

BID OF _____

2014

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

2014 PLAYGROUND IMPROVEMENTS - GROUP 1

CONTRACT NO. 7284

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON _____

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**2014 PLAYGROUND IMPROVEMENTS - GROUP 1
CONTRACT NO. 7284**

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This Proposal, and Agreement have
been prepared by:

**CITY PARKS DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN**



Kevin Briski, Superintendent of Parks

KB: ms

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	2014 PLAYGROUND IMPROVEMENTS- GROUP 1
CONTRACT NO.:	7284
SBE GOAL	12%
BID BOND	5%
PRE BID MEETING (1:00 P.M.)	03/21/14
PREQUALIFICATION APPLICATION DUE (1:00 P.M.)	03/21/14
BID SUBMISSION (1:00 P.M.)	03/28/14
BID OPEN (1:30 P.M.)	03/28/14
PUBLISHED IN WSJ	03/14/14 & 03/21/14

PRE BID MEETING: Representatives of the Affirmative Action Department will be present to discuss the Small Business Enterprise requirements at 1600 Emil Street, Madison Wisconsin.

PREQUALIFICATION APPLICATION: Forms are available on our website, www.cityofmadison.com/business/pw/forms.cfm. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2014 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, www.cityofmadison.com/Business/PW/specs.cfm.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-

qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

The Bidder shall execute the Disclosure of Ownership form. REFER TO SECTION F.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

PREVAILING WAGE RATES

Prevailing Wage Rates may be required and are attached in Section J of the contract. See Special Provisions to determine applicability.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an ☒

Building Demolition

- 101 ☐ Asbestos Removal
120 ☐ House Mover

- 110 ☐ Building Demolition

Street, Utility and Site Construction

- 201 ☒ Asphalt Paving
205 ☐ Blasting
210 ☐ Boring/Pipe Jacking
215 ☒ Concrete Paving
220 ☒ Con. Sidewalk/Curb & Gutter/Misc. Flat Work
221 ☐ Concrete Bases and Other Concrete Work
222 ☐ Concrete Removal
225 ☐ Dredging
230 ☐ Fencing
235 ☐ Fiber Optic Cable/Conduit Installation
240 ☒ Grading and Earthwork
241 ☐ Horizontal Saw Cutting of Sidewalk
242 ☐ Infrared Seamless Patching
245 ☐ Landscaping, Maintenance
250 ☒ Landscaping, Site and Street
251 ☐ Parking Ramp Maintenance
252 ☐ Pavement Marking
255 ☐ Pavement Sealcoating and Crack Sealing
260 ☐ Petroleum Above/Below Ground Storage Tank Removal/Install
265 ☐ Retaining Walls, Precast Modular Units

- 270 ☐ Retaining Walls, Reinforced Concrete
275 ☐ Sanitary, Storm Sewer and Water Main Construction
276 ☐ Sawcutting
280 ☐ Sewer Lateral Drain Cleaning/Internal TV Insp.
285 ☐ Sewer Lining
290 ☐ Sewer Pipe Bursting
295 ☐ Soil Borings
300 ☐ Soil Nailing
305 ☐ Storm & Sanitary Sewer Laterals & Water Svc.
310 ☐ Street Construction
315 ☐ Street Lighting
318 ☐ Tennis Court Resurfacing
320 ☐ Traffic Signals
325 ☐ Traffic Signing & Marking
332 ☐ Tree pruning/removal
333 ☐ Tree, pesticide treatment of
335 ☐ Trucking
340 ☐ Utility Transmission Lines including Natural Gas, Electrical & Communications
399 ☐ Other _____

Bridge Construction

- 501 ☐ Bridge Construction and/or Repair

Building Construction

- 401 ☐ Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
402 ☐ Building Automation Systems
403 ☐ Concrete
404 ☐ Doors and Windows
405 ☐ Electrical - Power, Lighting & Communications
410 ☐ Elevator - Lifts
412 ☐ Fire Suppression
413 ☐ Furnishings - Furniture and Window Treatments
415 ☐ General Building Construction, Equal or Less than \$250,000
420 ☐ General Building Construction, \$250,000 to \$1,500,000
425 ☐ General Building Construction, Over \$1,500,000
428 ☐ Glass and/or Glazing
429 ☐ Hazardous Material Removal
430 ☐ Heating, Ventilating and Air Conditioning (HVAC)
433 ☐ Insulation - Thermal
435 ☐ Masonry/Tuck pointing

- 437 ☐ Metals
440 ☐ Painting and Wallcovering
443 ☒ Playground Installer
445 ☐ Plumbing
450 ☐ Pump Repair
455 ☐ Pump Systems
460 ☐ Roofing and Moisture Protection
464 ☐ Tower Crane Operator
461 ☐ Solar Photovoltaic/Hot Water Systems
465 ☐ Soil/Groundwater Remediation
466 ☐ Warning Sirens
470 ☐ Water Supply Elevated Tanks
475 ☐ Water Supply Wells
480 ☐ Wood, Plastics & Composites - Structural & Architectural
499 ☐ Other _____

State of Wisconsin Certifications

- 1 ☐ Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
2 ☐ Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
3 ☐ Class 7 Blaster - Blasting Operations and Activities for structures greater than 15 ' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
4 ☐ Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
5 ☐ Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application:
www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
6 ☐ Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
7 ☐ Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
8 ☐ State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the
Bid Express Website
at <https://bidexpress.com>
look up contract number
and go to
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the “Register for Free” button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a ‘per bid’ basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the ‘Digital ID’ process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders City of Madison SBE Program Information

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

2.2 Contract Compliance

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at www.cityofmadison.com/dcr/aaTBDDir.cfm.

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at www.cityofmadison.com/dcr/aaTBDDir.cfm. Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid. This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below

shall be deemed non-responsible and the bidder ineligible for award of this contract.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.1.1 **Cover Page**, Page C-6; and

2.4.2.1.2 **Summary Sheet**, C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.2.1 **Cover Page**, Page C-6;

2.4.2.2.2 **Summary Sheet**, C-7; and

2.4.2.2.3 **SBE Contact Report**, C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

2.5 Appeal Procedure

A bidder which does not achieve the established goal and is deemed non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may, within 72 hours of receiving such notification, appeal that decision to a special appeals committee composed of three (3) members of the Affirmative Action Commission, three (3) members of the Board of Public Works and a seventh member appointed by the Mayor. All appeals must be made in writing to the City Engineer and received within 72 hours of City of Madison's notice. Postmark not applicable.

2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

2.7 SBE Definition and Eligibility Guidelines

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

**2014 PLAYGROUND IMPROVEMENTS - GROUP 1
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Small Business Enterprise Compliance Report

**This information may be submitted electronically through
Bid Express or submitted with bid in sealed envelope.**

Cover Sheet

Prime Bidder Information

Company: _____

Address: _____

Telephone Number: _____ Fax Number: _____

Contact Person/Title: _____

Prime Bidder Certification

I, _____, _____ of
Name Title

_____ certify that the information
Company

contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.

Witness' Signature

Bidder's Signature

Date

**2014 PLAYGROUND IMPROVEMENTS - GROUP 1
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Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
Subtotal SBE who are NOT suppliers:		_____ %

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
		%
Subtotal Contractors who are suppliers:		_____ % x 0.6 = _____ % (discounted to 60%)

Total Percentage of SBE Utilization: _____ %.

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Small Business Enterprise Compliance Report

SBE Contact Report

Submit separate copy of this form for each SBE which you are not able to utilize towards meeting the SBE goal for this project. Attach separate sheets if necessary.

SBE Information

Company: _____

Address: _____

Telephone Number: _____

Contact Person/Title: _____

1. Outline below all efforts to solicit a bid from the above SBE. Include date, means of contact, who from your company made this contact and the result.

2. Describe the information provided to the aforementioned SBE regarding the scope of work for which he/she was to provide a bid.

Is this the same scope of work on which the subcontractor you intend to utilize based his/her bid?

☐ Yes ☐ No

3. Did this SBE submit a bid? ☐ Yes ☐ No

4. Is the General Contractor pre-qualified to self-perform this category of work?

☐ Yes ☐ No

5. If you responded "Yes" to Question 3, please check the items below which apply and provide the requested detail. If you responded "No" to Question 3, please skip ahead to item 6 below.

☐ The SBE listed above is unavailable for work on this project for the following reasons. Provide specific detail for this conclusion.

☐ The SBE listed above is unqualified for work on this project. Provide specific details for this conclusion.

☐ The SBE listed above provided a price that was unreasonable (i.e. more than 5% above the lowest bidder). Provide specific detail for this conclusion including the SBE's price and the price of the subcontractor you intend to utilize.

☐ A contract with the SBE listed above may constitute a breach of the bidder's collective bargaining agreements. Provide specific detail for this conclusion including, but not limited to, correspondence from the SBE indicating it will not sign a project labor agreement and/or correspondence from the applicable trade union indicating a project labor agreement will not be allowed at the time of project bidding.

☐ Other; please specify reason(s) other than listed above which made it impossible for you to utilize this SBE on this project.

6. Describe any other good faith efforts:

SECTION D: SPECIAL PROVISIONS

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.1 PREQUALIFICATION OF BIDDERS

The bidder for this contract must be pre-qualified in at least one of several different categories due to the nature of work involved with this contract. If the prime contractor is prequalified in a category other than Playground Installer (#443 under Building Construction), their Subcontractor must be prequalified as a Playground Installer.

SECTION 102.10: PREVAILING WAGE

For this project, payment of prevailing wages (white sheet) shall be required unless the box indicating prevailing wages are not required is checked below.

☐ Prevailing wages shall not be required when this box is checked.

If prevailing wages (white sheets) are required, the wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

- ☒ Building and Heavy Construction
- ☐ Sewer, Water, and Tunnel Construction
- ☐ Local Street and Miscellaneous Paving Operations
- ☐ Residential and Agricultural Construction

SECTION 102.12: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$54,000 for a single trade contract; or equal to or greater than \$264,500 for a multi-trade contract pursuant to MGO 33.07(7).

SECTION 104 SCOPE OF WORK

This project consists of installation of new playground equipment, border timbers, asphalt paths, benches and playground surfacing at various City of Madison project sites.

The Contractor shall view the sites prior to bidding to become familiar with the existing conditions. The Contractor shall work with the existing utilities and to resolve conflicts during the construction process.

SECTION 105.1: AUTHORITY OF THE ENGINEER

The Engineer shall resolve all questions which arise as to the quality and acceptability of materials furnished, work performed, manner of performance, rate of progress of the work, interpretation of the plans and Specifications, acceptable fulfillment of the contract, compensation, and disputes and mutual

rights between Contractors under the Specifications. The Engineer shall determine the amount and quantity of work performed and materials furnished.

All decisions of the Engineer shall, when so requested, be rendered in writing. They shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor applies in writing to the Board of Public Works for a review of such decision.

Any change proposed by a Contractor in SBE subcontractors, vendors or suppliers from those SBEs indicated on the SBE Compliance Report must be approved by the Engineer and the City's Manager of the Affirmative Action Division (hereafter, AAD). When requested, such decision shall be rendered in writing. Such decisions shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor or the affected SBE applies in writing to the Board of Public Works for a review of such decision.

In the event the Engineer and the AAD disagree over the proper decision to be made regarding an SBE, the Mayor shall appoint a third person to resolve the disagreement, within 30 days of appointment. The decision thus rendered may be reviewed by the Board of Public Works upon request of the Contractor or the affected SBE as set forth in Sections 105.1 and 105.2 of the City's Standard Specifications.

SECTION 105.9: SURVEYS, POINTS, AND INSTRUCTION

The Contractor is responsible for the layout of the playground under drain system per Bid Item 20130. The City of Madison shall be responsible for setting all other lines and/or grades required to complete the work for the 2014 Playground Improvements – Group 1. Any questions regarding the layout and staking of this project should be directed to City of Madison Parks Surveyor Dan Rodman at 266-6674.

SECTION 105.12: COOPERATION BY CONTRACTOR

Several utilities exist on site. The Contractor shall perform a One Call through Digger's Hotline for each site at least three days prior to beginning construction. To ensure that Parks-owned utilities are also marked, include the park name at the beginning of the Marking Instructions field on the ticket, and send a copy of the ticket to the City of Madison Parks Surveyor (Dan Rodman / drodman@cityofmadison.com / tel (608)266-6674 / fax (608)267-1162).

The Contractor shall secure materials at the end of each work day to deter any potential vandalism and theft.

The Contractor shall attend a pre-construction meeting prior to the start of construction.

The Contractor warrants that its services are performed, within the limits prescribed by the City, with the usual thoroughness and competence of the consulting profession; in accordance with the standard for professional services at the time those services are rendered. The Contractor shall be responsible for the accuracy of the work performed under this Agreement, and shall promptly make necessary revisions or corrections resulting from their negligent acts, errors or omissions without additional compensation. The Contractor shall be responsible for any damages incurred as a result of their errors, omissions, or negligent acts and for any losses or costs to repair or remedy construction.

The Contractor shall take care when accessing the site not to damage the existing utilities, concrete curb, sidewalk or asphalt pavement. Any damage shall be repaired by the Contractor per City of Madison Standard Specifications for Public Works Construction and considered incidental this contract.

SECTION 105.13 ORDER OF COMPLETION

The Contractor shall complete the playground improvements in the following order:

1. Sauk Creek Park, 402 N High Point Rd
2. Droster Park, 1429 Droster Rd
3. Pilgrim Park, 2034 Westbrook Lane
4. Everglade Park, 406 Everglade Drive
5. Haen Family Park, 7702 Tree Lane
6. Westport Meadows Park, 4338 Bielfuss Drive

Prior to beginning construction, the Contractor shall submit to the City a detailed schedule showing the sequence and anticipated dates of all playground installation operations.

SECTION 107.13 TREE PROTECTION SPECIFICATIONS

The Contractor is advised to review Article 107.13 of the Standard Specifications for tree protection. Note that Articles 107.13(a) Underground Utility Excavation & Installation and 107.13 (b),107.13(c) Sidewalk Excavation and Installation are not applicable to this project except as noted below.

The intent of these designs is to minimize the damage to those trees that remain following construction. Trees that must be protected are designated on the plans.

107.13(e) Terrace Restoration

It is recognized that grading operations and root cutting of some trees will need to occur within 5 feet of trees in order to complete the work, and care must be taken in these areas. For trees marked as “tree protection - no root cut” grading, excavation, filling, stone placement and other construction operations near these trees shall be done under the supervision of a City of Madison Forestry Representative. The sequence to construct in areas adjacent to “no root cut” trees shall be as follows:

1. Trees marked on the plan as “NRC” or “no root cut” shall not be disturbed until inspection by City Forester.
2. The Contractor shall place a yellow ribbon around the tree marked NRC to highlight these trees for the equipment operator.
3. The ribbon shall remain until the area is fine graded and seeded or sodded. Roots shall be cut cleanly by using a saw, ax, lopping shears, chain saw, stump grinder, or other means which will produce a clean cut. Exposed roots shall be covered as soon as excavation and installation are complete. All roots over one (1) inch in diameter that are damaged shall be cleanly cut immediately back of the damaged section on the same day of the excavation. The Contractor shall not rip or pull roots out towards the trunk of a tree while excavating with a backhoe. The use of a backhoe to cut roots is NOT acceptable.

All provisions of Articles 107.13(d), 107.13(f) Bark Abrasions and Limb Damage, 107.13(g) Soil Compaction, 107.13(h) Contractor/Foreperson Acknowledgement, and 107.13(i) Cost Recovery and Liquidated Damages are applicable to this contract.

1. Protection of these trees shall be paid under Bid Item 10803 –Root Cutting.

SECTION 107.7 MAINTENANCE OF TRAFFIC

If any traffic control is needed, all traffic control shall conform to Part VI of the Federal Highways Administrations “Manual on Uniform Traffic Control Devices” (MUTCD), the State of Wisconsin Standard Facilities Development Manual (including Chapter 16 – Standard Detail Drawings) and the City of Madison Standards for sidewalk and bikeway closures.

The Contractor shall submit an acceptable, complete Traffic Control Plan, including all necessary phases and any required sidewalk or bike route closures, to the office of the City Traffic Engineer, at 215 Martin Luther King, Jr. Blvd, Suite 100, Madison, WI 53703, a minimum of five (5) working days, prior to the pre-

construction meeting. The Traffic Control Plan shall address all requirements of this section of the Special Provisions. The contractor shall not start work on this project until the Traffic Engineering Division has approved a traffic control plan and traffic control devices have been installed, in accordance with the approved plan. Failure of the Contractor to obtain approval of a Traffic Control Plan, as specified above, may prevent the Contractor from starting work and shall be considered a delay of the project, caused by the Contractor.

The Contractor shall be responsible for installing and maintaining traffic control in accordance with the Traffic Control Plan and as directed by the City Traffic Engineer. The Contractor shall install and maintain modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

The Contractor shall provide ADA/Handicap Accessible pedestrian access at all intersections within the construction area at all times. Sidewalks shall be maintained on at least one side of the street at all times unless otherwise required.

The Contractor may remove parking within the project limits as indicated on the Traffic Control Plan. The Contractor shall be responsible for posting and maintaining NO PARKING signs in accordance with City of Madison Police Department's "Guidelines for Temporary No Parking Restrictions for Construction or Special Events".

No construction equipment or materials shall be stored in the roadway or street right-of-way that is open to traffic during non-working hours. Construction equipment and materials are not to be stored within the street right-of-way that is outside the project limits as shown on the approved plan.

Contact Yang Tao, Traffic Engineering Division, 266-4815, with any questions concerning these traffic control specifications.

SECTION 108.2: PERMITS

The following permits shall be applied for by the City of Madison:

1. City of Madison Erosion Control Permit

The Contractor shall meet the conditions of all permits and must keep a copy of each individual permit on site at all times throughout construction.

The Contractor shall meet the conditions of the permits including properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, or as directed by the Construction Engineer or his designees. This work shall be paid for under the appropriate bid items, or if appropriate items are not included in the contract, they shall be paid for as Extra Work.

The City's obtaining these permits is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction.

SECTION 109.2: PROSECUTION OF THE WORK

Work cannot start on this contract until after the "Start to Work" letter has been received. Construction work must begin within seven (7) calendar days after the date appearing on the mailed notice to do so that was sent to the Contractor. Construction work shall be carried at a rate so as to secure full completion within the contract times outlined in Section 109.7, the rate of progress and the time of completion being essential conditions of this Agreement.

The fixed, agreed upon, liquidated damages for failure to complete all work within the contract, unless otherwise specified in this section, shall be calculated in accordance with Article 109 of the Standard

Specifications. The Contractor shall limit workdays from 7:00 am to 7:00 pm, Monday - Friday, unless approved by the Engineer in writing.

SECTION 109.7: TIME OF COMPLETION

Work on the 2014 Playground Improvements – Group 1 shall start on or around 05/30/14 and shall be completed by 10/17/2014.

BID ITEM 10701 – TRAFFIC CONTROL

DESCRIPTION

Work under this item shall be bid per Section 107.7 MAINTENANCE OF TRAFFIC per this contract.

METHOD OF MEASUREMENT

Traffic control shall be measured lump sum for each individual site.

BASIS OF PAYMENT

Traffic control shall be paid at the total completion of project as determined by the Project Manager. This item shall not be paid in full if at any time the Contractor fails to properly erect, maintain and coordinate traffic control per Section 107.7 MAINTENANCE OF TRAFFIC.

BID ITEM 10803 – ROOT CUTTING

DESCRIPTION

Work under this item is intended to cover work required to protect trees per Section 107.13 of the latest edition of the City of Madison Standard Specifications for Public Works Construction and as marked on the plans.

Pruning of existing trees is prohibited.

METHOD OF MEASUREMENT

Root Cutting shall be measured per linear feet; each tree shall have a maximum of 15 linear feet of root cut per tree.

BASIS OF PAYMENT

Root Cutting shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, and incidentals required to complete the work as set forth in the description.

BID ITEM 10911 - MOBILIZATION

DESCRIPTION

Work under this item shall include all costs associated with mobilization of the Contractor to each park playground location.

Parking of equipment, storage of materials, and staging shall be allowed within project limits per Section 107.7 MAINTENANCE OF TRAFFIC and as shown on plans.

The Contractor may only enter the construction site through an area bordered by construction fencing as shown on the plans. **THE CONTRACTOR MAY NOT DRIVE OR STORE EQUIPMENT ON ANY**

PORTION OF THE PARK OUTSIDE THE CONSTRUCTION LIMITS UNLESS INDICATED OTHERWISE ON PLANS OR DIRECTED IN THE FIELD.

All materials purchased by the City of Madison shall be ordered for delivery to pre-determined receiving locations as described in the individual bid item descriptions. The Contractor will provide equipment and labor for receiving, trucking and off-loading as needed. Contractor is responsible for securing all deliveries and insuring the completeness of the order prior to installation.

The Contractor is responsible for restoration of any damage to the site due to construction access.

METHOD OF MEASUREMENT

Mobilization shall be paid as a lump sum for mobilization related to each project site.

BASIS OF PAYMENT

Mobilization shall be measured as described above and shall be paid for at the contract price which shall be full compensation for all work, materials, tools, equipment, labor, and incidentals required to complete the work as set forth in the description.

BID ITEM 20101 – EXCAVATION CUT

DESCRIPTION

Excavation Cut shall consist of the loosening, loading, hauling and disposal of all materials, excluding the existing pea gravel playground surfacing associated with Bid Item 20103 Excavation Cut – Pea Gravel, of every description encountered in the performance of the work other than specific materials which have been classified and bid upon.

The excavation quantities for this contract have been calculated by subtracting digital terrain models of the existing and proposed surfaces and sub surfaces within the different material areas. Cut (in place quantities) and fill have been estimated from these models. Cut and fill quantities have been determined based on an estimated existing playground surface depth of 17". No shrinkage factor has been applied to fill quantities to estimate net volume. The Contractor is responsible to review attached earthwork calculations. Three-dimensional Microstation (.dgn) files containing the digital terrain models used for the earthwork calculations are available.

The proposal quantity was computed by Microstation InRoads surface data volume computations and the assumptions listed above. Adjustments were made for topsoil assuming excavation of four (4) inches of existing topsoil, placement of six (6) inches of proposed topsoil, and placement of either twelve (12) or nine (9) inches of playground surfacing (depending on the surfacing type).

Excess excavated material deemed unusable shall be disposed of at a suitable location determined by the Contractor at no additional cost to the City of Madison.

Suitable materials (to be determined by the Engineer) may be reused as fill within the project limits. Placement of these fill materials shall be considered incidental to this bid item and shall not be compensated separately.

Test rolling for undercut determination is required at all playground sites and is incidental to this bid item.

All double handling and subsoil placement is included in this bid item.

Contractor to note all excavated areas shall be filled at the end of each work day. No excavated areas shall be "open" during non work hours.

METHOD OF MEASUREMENT

Excavation Cut within the limits shown on the plans shall be paid for based on the "proposal quantity" as shown in the Contract without measurement thereof.

BASIS OF PAYMENT

Excavation Cut shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM 20103 – EXCAVATION CUT - PEA GRAVEL

DESCRIPTION

Excavation Cut – Pea Gravel shall consist of the loosening, loading, hauling and disposal of the existing pea gravel playground surfacing.

The excavation quantities for this contract have been calculated by subtracting digital terrain models of the existing and proposed surfaces and sub surfaces within the different material areas. Cut (in place quantities) and fill have been estimated from these models. Cut and fill quantities have been determined based on an estimated existing playground surface depth of 17". No shrinkage factor has been applied to fill quantities to estimate net volume. The Contractor is responsible to review attached earthwork calculations. Three-dimensional Microstation (.dgn) files containing the digital terrain models used for the earthwork calculations are available.

The proposal quantity was computed by Microstation InRoads surface data volume computations and the assumptions listed above. Adjustments were made for excavation of seventeen (17) inches of existing playground surfacing.

All double handling is included in this bid item.

Contractor to note all excavated areas shall be filled at the end of each work day. No excavated areas shall be "open" during non work hours.

METHOD OF MEASUREMENT

Excavation Cut – Pea Gravel within the limits shown on the plans shall be paid for based on the "proposal quantity" as shown in the Contract without measurement thereof.

BASIS OF PAYMENT

Excavation Cut – Pea Gravel shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM 20130 - UNDER DRAIN

DESCRIPTION

This work shall include all labor, equipment, materials, and incidentals required to install and connect four-inch perforated pipe under drain, wrapped, including open graded base course and geotextile fabric, as shown on the plans or as directed by the Engineer. Drain pipe shall pitch at a minimum 0.5% slope in a bed of ¾" **washed** stone to cover and envelope the pipe a minimum of 3" around. Drain pipe shall be located to intersect a main run that shall daylight to a low spot noted on the plan and confirmed in the field. The pipe end shall include a secured mitered drain grate (Drain-Tech # 0499MDB or approved equal) and be directed to an area determined on-site that will carry water from the playground. Installation

of the secured mitered drain grate, stone, Geotextile fabric, perforated pipe and excavation cut is incidental to this bid item.

When installing the under drain system the Contractor shall maintain a 24" minimum clearance from playground equipment footings.

The Contractor shall contact Dan Rodman at 266-6674 to field check under drain elevations prior to backfilling.

METHOD OF MEASUREMENT

Under Drain shall be measured by the plan linear foot as listed on the proposal page.

BASIS OF PAYMENT

Under Drain shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, and incidentals required to complete the work as set forth in the description.

BID ITEM 20140 – GEOTEXTILE FABRIC TYPE SAS NON WOVEN

DESCRIPTION

Work under this bid item shall include all necessary work, labor and incidentals required to install Type SAS Non Woven Geotextile Fabric between the proposed subgrade/under drain and the playground surfacing (installed by others).

Geotextile fabric shall have a minimum 4 oz/sy fabric strength.

Overlap and staple pattern shall be in general accordance with the manufacturer's recommendations, or as modified or approved in the field to accommodate the underlying play equipment or as specified in plans. The Contractor shall provide to the City the Manufacturer's recommended staple pattern.

The provided quantities do not include run out in anchor trenches or overlap.

METHOD OF MEASUREMENT

Geotextile Fabric Type SAS Non Woven shall be measured by the plan square yard listed in the proposal page, not including run out in anchor trenches or overlap.

BASIS OF PAYMENT

Geotextile Fabric Type SAS Non Woven shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, and incidentals required to complete the work as set forth in the description.

BID ITEM 20201 - FILL

DESCRIPTION

This item shall include all necessary work, labor and incidentals required to obtain and distribute fill to meet proposed subgrades. Fill shall comply with material described in the latest edition of the City of Madison Standard Specifications for Public Works Construction Article 202.

Double handling, stockpiling and placing fill is included in this bid item.

METHOD OF MEASUREMENT

Fill shall be measured in cubic yards.

The proposal quantity was computed by Microstation InRoads surface data volume. Adjustments were made for topsoil assuming excavation of four (4) inches of existing topsoil, excavation of seventeen (17) inches of existing playground surfacing, placement of six (6) inches of proposed topsoil, and placement of either twelve (12) or nine (9) inches of playground surfacing (depending on the surfacing type).

BASIS OF PAYMENT

Fill shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description..

BID ITEM 20217 – CLEAR STONE

DESCRIPTION

This item shall include the quantity of clear stone required for the construction entrance per BID ITEM 21011 and does not include stone for construction of the under drain. Stone required for construction of the under drain shall be incidental to BID ITEM 20130 – UNDER DRAIN.

METHOD OF MEASUREMENT

Clear Stone shall be measured in cubic yards.

BASIS OF PAYMENT

Clear Stone shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM 20221 - TOPSOIL

DESCRIPTION

This item shall include all necessary work, labor and incidentals required to distribute and dispose of topsoil to meet proposed grades. Topsoil shall comply with material described in the City of Madison Standard Specifications for Public Works Construction Article 202.

Stripped topsoil can be stockpiled on site within the construction fence boundary.

Excess material shall be disposed offsite at a location to be determined and provided by the City at no extra cost to the City. The location shall be within the City of Madison. Double handling, stockpiling and placing topsoil is included in this bid item.

Contractor to note - the City of Madison Parks Division is to be called to inspect and approve the finish grade prior to seeding and mulching.

METHOD OF MEASUREMENT

Topsoil shall be measured in cubic yards.

The proposal quantity was computed by Microstation InRoads surface data volume computations and the assumptions listed above. Adjustments were made for topsoil assuming excavation of four (4) inches of

existing topsoil, seventeen (17) inches of existing playground surfacing, and placement of six (6) inches of proposed topsoil.

BASIS OF PAYMENT

Topsoil shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM 20701 – TERRACE SEEDING

DESCRIPTION

This work shall consist of preparing seed beds, furnishing and sowing the required seed, furnishing and applying the required stabilizers, fertilizer, and mulching material in terrace and existing lawn damaged by construction activities, all in accordance with the City of Madison Standard Specifications for Public Works Construction Article 207. Seed mixture shall be either in whole, or a mixture of the City of Madison sun terrace mix and shade terrace mix applied appropriately based on shady and sunny areas of the construction site.

Since construction is limited to within the construction fence, no additional compensation shall be given for seeding quantities beyond what is specified in this contract.

Contractor to note - the City of Madison Parks Division is to be called to inspect and approve the finish grade prior to seeding and mulching.

METHOD OF MEASUREMENT

Terrace Seeding shall be measured by the square yard as listed on the proposal page.

BASIS OF PAYMENT

Terrace Seeding shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, and incidentals required to complete the work as set forth in the description.

BID ITEM 21024 - SILT SOCK (12 INCH) - COMPLETE

DESCRIPTION

Work under this item shall include all work, materials, labor, and incidentals required to install, maintain and remove silt sock at locations shown on the plans and around any subsoil/topsoil staging piles and to install, maintain and remove additional undistributed silt sock as a precautionary measure to address emergency erosion control. The proposal quantities include an additional 200 linear feet of undistributed silt sock per park. It is probable that the additional linear feet of undistributed silt sock will be reduced or eliminated from the proposal quantities.

METHOD OF MEASUREMENT

Silt Sock (12 inch) – Complete, shall be measured by linear foot for the completed work as described above.

BASIS OF PAYMENT

Silt Sock (12 inch) – Complete, shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM 21061 - EROSION MATTING, CLASS I URBAN TYPE A – ORGANIC

DESCRIPTION

Work under this bid item shall include installation of Erosion Matting, Class I Urban Type A on all seeded slopes steeper than 5:1 or at locations identified on plans.

Work under this bid item shall be as set forth in the latest edition of the City of Madison Standard Specifications for Public Works Contracts, except the Contractor shall note that special care with anchorage devices shall be required so as to not injure users of the park. Anchorage devices for the mat are required to be a product identified on the Wisconsin Department of Transportation Erosion Control Product Acceptability List (PAL) under the category of "Anchoring Devices for Class I, Urban Erosion Mat.

Anchorage devices shall be completely biodegradable, and photobiodegradable or metal anchorage devices shall not be allowed. Materials deemed to present a hazard from splintering or spearing shall not be approved, including solid wood devices.

Photobiodegradable matting is not allowed.

Erosion Matting, Class I Urban Type A installed correctly with correct anchorage, staple pattern, and overlap shall be paid at the contract price. To verify the staple pattern, the Contractor shall provide to the City a Manufacturer's recommended staple pattern for the type of matting installed.

Trimming of the Erosion Matting, Class I Urban Type A required to accommodate existing tree locations shall be considered incidental to this bid item.

METHOD OF MEASUREMENT

Erosion Matting, Class I Urban Type A shall be measured by the square yard quantity.

BASIS OF PAYMENT

Erosion Matting, Class I Urban Type A shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description. Seeding shall be paid separately.

BID ITEM 30301 – 5 INCH CONCRETE SIDEWALK

DESCRIPTION

This item involves the construction of new 5 inch concrete bench pads at locations specified in the plans.

METHOD OF MEASUREMENT

Concrete bench pads shall be measured by the area in square feet.

BASIS OF PAYMENT

5 Inch Concrete Sidewalk shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all the work, including: preparation of subgrade including subbase, furnishing and placing 5 inch concrete sidewalk, finishing and protecting, and for all labor, tools, equipment and incidentals necessary to complete the work.

BID ITEM 40102 – CRUSHED AGGREGATE BASE COURSE GRADATION NO. 2

DESCRIPTION

Work under this bid item shall include provision and installation of 9 inches of Crushed Aggregate Base Course Gradation No. 2 for asphalt path construction.

All aggregate base course shall extend 6 inches beyond the proposed pavement edge and shall have 3 inches of topsoil and terrace seed over the extended gravel base to be paid for under BID ITEM 20221 – TOPSOIL and 20701 – TERRACE SEEDING for all paved path, except for where the path extends into the playground.

The Contractor shall contact Dan Rodman at 266-6674 to proof subgrade elevations prior to paving.

METHOD OF MEASUREMENT

Crushed Aggregate Base Course Gradation No. 2 shall be measured by the ton as listed on the proposal page.

BASIS OF PAYMENT

Crushed Aggregate Base Course Gradation No. 2 shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description. Unless there is a substantial change directed by the Engineer, no payment shall be given for changes in quantities listed in proposal. For purposes of this item, "substantial" shall mean changes over 20% of the estimated quantity.

BID ITEM 40201 – 3 INCH DEPTH HMA PAVEMENT TYPE E-0.3

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to provide and install 3 Inch Depth HMA Pavement Type E-0.3 in accordance with these plans and specifications and the latest edition of the City of Madison Standard Specifications for Public Works Construction.

METHOD OF MEASUREMENT

3 Inch Depth HMA Pavement Type E-0.3 shall be measured by the ton as listed on the proposal page.

BASIS OF PAYMENT

3 Inch Depth HMA Pavement Type E-0.3 shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description. Unless there is a substantial change directed by the Engineer, no payment shall be given for changes in quantities listed in proposal. For purposes of this item, "substantial" shall mean changes over 20% of the estimated quantity.

BID ITEM 40321 - UNDERCUT

DESCRIPTION

Work under this item shall include all equipment, labor and incidentals necessary to undercut areas of path according to Section 403.4 of the Standard Specifications for Public Works Contracts. Areas needed to be undercut shall be determined by the Engineer after the final test rolling is done and before paving. The cost per SY for undercut (Bid Item 40321), includes the removal, trucking and disposal of the undercut material. All undercut material is to be disposed of offsite, in a location to be determined and provided by the contractor, at no extra charge to the City.

The filling of undercut areas with pulverized material or breaker run as described in Section 403.4 of the Standard Specifications for Public Works Contracts is incidental to this item.

The test rolling is included as a part of Bid Item 20101 Excavation Cut.

METHOD OF MEASUREMENT

Undercut shall be measured in the field per square yard.

BASIS OF PAYMENT

Undercut, as measured above, shall be full compensation for all labor, equipment and incidentals necessary to complete the work as described above. **If no Undercut is necessary, no compensation for this bid item shall be assessed.**

BID ITEM 90000 - CONSTRUCTION FENCING (PLASTIC)

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to provide, install, maintain and remove construction fence from the project site as shown on the plans.

Construction fencing shall be installed to discourage access to the construction area by the general public during the course of the project. Fencing shall be maintained throughout construction and adjusted or removed at the request of the Engineer.

This fence shall be highly visible (orange), constructed of a plastic web, and able to withstand the expected amount of use it shall receive on a construction site. Minor relocation of fencing may be required as the work progresses. No extra payment shall be made for temporarily opening and re-closing the fence, or minor relocation of the fencing as needed to perform the work. Fencing shall be left in place until construction operations are complete.

Construction fencing shall be International Orange color, high-density polyethylene mesh conforming to the following:

- Mesh opening: 1 inch minimum to 3 inch maximum
- Height: 4 feet
- Ultimate tensile strength: Avg 3000 lb per 4' width (ASTM D638)

METHOD OF MEASUREMENT

Construction Fence (Plastic) shall be measured by the Linear Foot.

BASIS OF PAYMENT

Construction Fence (Plastic) shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM 90001 - PLAYGROUND EQUIPMENT INSTALLATION

DESCRIPTION

All play equipment shall be purchased by the City of Madison and ordered for delivery from the play equipment vendor to the Contractor's pre-determined receiving location. The Contractor shall provide equipment and labor for loading, trucking, and off-loading as needed. Contractor is responsible for securing all deliveries and insuring the completeness of the order prior to installation.

The Contractor shall contact Engineer within three (3) working days of receipt of the playground equipment to confirm equipment matches what was specified.

All installation of equipment shall adhere and conform to the installation specifications as provided by the manufacturer, and shall be further inspected by the City of Madison Playground Construction Inspector following installation. The Contractor is required to make any necessary adjustments to the play equipment installation determined by the City of Madison Playground Construction Inspector to rectify incorrect installation. Installation specifications are provided within this contract book. Actual layout of play system and components to be installed shall comply with that shown in the plans and be confirmed in the field by the City of Madison Playground Construction Inspector and City of Madison Parks Surveyor.

The playground shall be installed at the correct elevations as specified by the playground manufacturer and installation specifications to meet required elevations based on the finished playground surfacing elevations as shown on the plans.

See Appendix 1 for the manufacturers' playground equipment instructions for each park.

The Contractor shall contact the Playground Construction Inspector at 267-8805 prior to installation to coordinate exact date for playground installation.

The Contractor shall contact the Parks Surveyor at 209-7012 throughout installation to verify that playground equipment is installed at the correct horizontal layout and vertical elevations with respect to the proposed playground surfacing elevation identified on the plans.

METHOD OF MEASUREMENT

Playground Equipment Installation shall be measured by lump sum per each park playground site for the completed work as described above. Playground equipment concrete footing installation, materials and excavation are incidental to this bid item.

BASIS OF PAYMENT

Playground Equipment Installation shall be paid at the contract unit price for work described above and shall include all work, materials, labor and incidentals.

BID ITEM 90002 - PLAYGROUND TIMBERS

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to install playground border timbers (Tuff Timbers) at each project site as shown on the plans.

Border timbers shall be purchased by the City of Madison and ordered for delivery from the vendor to the City's pre-determined receiving location. The Contractor shall provide equipment and labor for loading, trucking and off-loading as needed. Contractor is responsible for securing all deliveries and insuring the completeness of the order prior to installation.

All installation of equipment shall adhere and conform to the installation specifications as provided by the manufacturer, and shall be further inspected by the Playground Construction Inspector following installation. Actual layout of Tuff Timbers shall comply with the dimensions shown in the plans and be confirmed in the field by the Playground Construction Inspector. The Tuff Timbers shall be installed at the correct elevations as specified on the plans. The Contractor shall field confirm timber placement does not encroach upon the play equipment fall zones as shown in the attached plans.

The Contractor shall contact the Parks Surveyor at 209-7012 throughout installation to verify that playground timbers are installed at the correct elevation with respect to the proposed playground surfacing.

METHOD OF MEASUREMENT

Playground Timbers shall be measured by each individual timber for the quantity listed in the proposal page.

BASIS OF PAYMENT

Playground Timbers shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM 90003 – PLAYGROUND SURFACING WOOD FIBER MULCH

DESCRIPTION

This item shall include all necessary work, labor and incidentals required to load, transport and distribute wood fiber mulch playground surfacing.

All playground surfacing wood fiber mulch shall be provided by the City of Madison at the City's pre-determined mulch receiving location. The wood fiber mulch shall be available at the City of Madison Transfer Station, 121 E. Olin Ave. The transfer station's hours of operation are 7:30 am to 2:30 pm, Monday thru Friday, excluding City holidays. The Contractor shall contact Bill Durkin at the City of Madison Streets Department (phone: 608-266-4911) a minimum of seven (7) working days prior to any anticipated dates of wood fiber mulch pick up. The Contractor shall provide equipment and labor for loading, trucking and off-loading as needed.

The playground surfacing shall be installed per the finished elevations as indicated on the plans. Minimum installed depth of wood fiber mulch is twelve (12) inches.

Double handling, stockpiling and placing wood fiber mulch is included in this bid item.

METHOD OF MEASUREMENT

Playground Surfacing Wood Fiber Mulch shall be measured in cubic yards.

The proposal quantity was computed by Microstation InRoads surface data volume assuming placement of twelve (12) inches of material.

BASIS OF PAYMENT

Playground Surfacing Wood Fiber Mulch shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, labor, tools, equipment, and incidentals required to complete the work as set forth in the description.

BID ITEM 90004 – PLAYGROUND SURFACING RUBBER MULCH

DESCRIPTION

This item shall include all necessary work, labor and incidentals required to receive, store, transport and distribute rubber mulch playground surfacing.

All playground surfacing rubber mulch shall be purchased by the City of Madison and ordered for delivery from the rubber mulch vendor to the City's pre-determined receiving location. The rubber mulch shall be available at the City of Madison Goodman Maintenance Facility, 1402 Wingra Creek Parkway, or the Forest Hills Cemetery yard, 1 Speedway Road, depending upon available storage area. The Contractor shall provide equipment and labor for loading, trucking and off-loading as needed. Contractor is responsible for securing all deliveries and insuring the completeness of the order prior to installation.

The playground surfacing shall be installed per the finished elevations as indicated on the plans. Minimum installed depth of rubber mulch is nine (9) inches.

Double handling, stockpiling and placing rubber mulch is included in this bid item.

METHOD OF MEASUREMENT

Playground Surfacing Rubber Mulch shall be measured in cubic yards.

The proposal quantity was computed by Microstation InRoads surface data volume assuming placement of nine (9) inches of material.

BASIS OF PAYMENT

Playground Surfacing Rubber Mulch shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, labor, tools, equipment, and incidentals required to complete the work as set forth in the description.

BID ITEM 90005 - BENCH INSTALLATION

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to assemble and install KayPark (Part # 6BAP) bench, surface mounted at the locations specified on the plans. All handling and installation shall be according to manufacturer's specifications. The complete installation specifications shall be included in the shipment of equipment from the vendor.

All benches shall be purchased by the City of Madison and ordered for delivery from the bench vendor to the City's pre-determined receiving location. The benches shall be available at the City of Madison Goodman Maintenance Facility, 1402 Wingra Creek Parkway. The Contractor shall provide equipment and labor for loading, trucking and off-loading as needed.

METHOD OF MEASUREMENT

Bench Installation shall be measured per each individual installed bench.

BASIS OF PAYMENT

Bench Installation shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM 90006 - BENCH REMOVAL

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to remove and dispose of existing park benches and their associated concrete slabs and footings at the locations specified on the plans.

Removed benches and excavated concrete material shall be disposed of at a suitable location determined by the Contractor at no additional cost to the City of Madison.

All double handling is included in this bid item.

Contractor to note all excavated areas shall be filled at the end of each work day. No excavated areas shall be "open" during non work hours.

METHOD OF MEASUREMENT

Bench Removal shall be measured per each individual bench removed.

BASIS OF PAYMENT

Bench Removal shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, disposal and incidentals required to complete the work as set forth in the description.

SECTION E: BIDDERS ACKNOWLEDGEMENT

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2014 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. _____ through _____ issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5.
(IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
5. I hereby certify that all statements herein are made on behalf of _____ (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of _____ a partnership consisting of _____; an individual trading as _____; of the City of _____ State of _____; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

SIGNATURE

TITLE, IF ANY

Sworn and subscribed to before me this
_____ day of _____, 20_____.

(Notary Public or other officer authorized to administer oaths)

My Commission Expires _____

Bidders shall not add any conditions or qualifying statements to this Proposal.

SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d) and 103.49(7)(d), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes.

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local governmental unit the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency or local governmental unit that will be awarding the contract, if **both (A) and (B) are met.**
 - (A) The contractor, or a shareholder, officer or partner of the contractor:
 - (1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
 - (2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
 - (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business

Not Applicable ☐

Name of Business

Street Address or P O Box

City

State

Zip Code

Name of Business

Street Address or P O Box

City

State

Zip Code

Name of Business

Street Address or P O Box

City

State

Zip Code

I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.

Print the Name of Authorized Officer

Signature of Authorized Officer

Date Signed

Name of Corporation, Partnership or Sole Proprietorship

Street Address or P O Box

City

State

Zip Code

If you have any questions call (608) 266-0028

ERD-7777-E (R. 09/2003)

**2014 PLAYGROUND IMPROVEMENTS - GROUP 1
CONTRACT NO. 7284**

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

- ☐ Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.
- ☐ No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.
- ☐ Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.
- ☐ First-time Contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.
- ☐ Contractor has been in business less than one year.
- ☐ Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

- ☐ The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- ☐ BRICKLAYER
- ☐ CARPENTER
- ☐ CEMENT MASON / CONCRETE FINISHER
- ☐ CEMENT MASON (HEAVY HIGHWAY)
- ☐ CONSTRUCTION CRAFT LABORER
- ☐ DATA COMMUNICATION INSTALLER
- ☐ ELECTRICIAN
- ☐ ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- ☐ GLAZIER
- ☐ HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- ☐ INSULATION WORKER (HEAT & FROST)
- ☐ IRON WORKER
- ☐ IRON WORKER (ASSEMBLER, METAL BLDGS)
- ☐ PAINTER & DECORATOR
- ☐ PLASTERER
- ☐ PLUMBER
- ☐ RESIDENTIAL ELECTRICIAN
- ☐ ROOFER & WATER PROOFER
- ☐ SHEET METAL WORKER
- ☐ SPRINKLER FITTER
- ☐ STEAMFITTER
- ☐ STEAMFITTER (REFRIGERATION)
- ☐ STEAMFITTER (SERVICE)
- ☐ TAPER & FINISHER
- ☐ TELECOMMUNICATIONS (VOICE, DATA & VIDEO) INSTALLER-TECHNICIAN
- ☐ TILE SETTER

SECTION G: BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT _____ (a corporation of the State of _____) (individual), (partnership), hereinafter referred to as the "Principal") and _____, a corporation of the State of _____ (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

1. If said bid is rejected by the Obligee, then this obligation shall be void.
2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

Seal

Principal

Date

By:

Name of Surety

By:

Date

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. _____ for the year _____, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

Date

Agent

Address

City, State and Zip Code

Telephone Number

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.

Certificate of Biennial Bid Bond

TIME PERIOD - VALID (FROM/TO)
NAME OF SURETY
NAME OF CONTRACTOR
CERTIFICATE HOLDER City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the biennial bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing Surety will give thirty (30) days written notice to the certificate holder indicated above.

Signature of Authorized Contractor Representative

Date

SECTION H: AGREEMENT

THIS AGREEMENT made this _____ day of _____ in the year Two Thousand and Fourteen between _____ hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted _____, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.
3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of _____ (\$_____) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.

4. **Wage Rates for Employees of Public Works Contractors**

General and Authorization. The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin Administrative Code and as hereinafter provided unless otherwise noted in Section D: Special Provisions, Subsection 102.10 – Minimum Rate of Wage Scale.

“Public Works” shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

“Building or work” includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.

“Erection, construction, remodeling, repairing” means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of

materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

"Employees working on the project" means laborers, workers, and mechanics employed directly upon the site of work.

"Laborers, Workers, and Mechanics" include pre-apprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

Workforce Profile. The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer's objections shall be the responsibility of the Contractor.

Payrolls and Records. The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor's subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor's subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the

contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification "Operating Engineer" provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an "Operating Engineer" based on the highest class of work that is done in one day. Therefore, an "Operating Engineer's" rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an "Operating Engineer". Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee's proper classification.

Questions regarding an employee's classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

Hourly contributions. Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

Apprentices and Subjourney persons. Apprentices and sub journeypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

Straight Time Wages. The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.

Overtime Wages. The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

Posting of Wage Rates and Hours. A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

Evidence of Compliance by Contractor. Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

- a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the

names and addresses of all of the subcontractors and agents who worked on the contract.

- b. That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Evidence of Compliance by Agent and Subcontractor. Each agent and subcontractor shall file with the Contractor, upon completion of their portion of the work on the contract an affidavit stating that all the provisions of Sec. 66.0903(3), Wis. Stats., have been fully complied with and that full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records shall be kept and the name, address and telephone number of the person who shall be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract.

5. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement
Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.
2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.

3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars (\$5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

**2014 PLAYGROUND IMPROVEMENTS - GROUP 1
CONTRACT NO. 7284**

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

Countersigned:

Company Name

Witness Date

President Date

Witness Date

Secretary Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

Finance Director

City Attorney

Signed this _____ day of _____, 20_____

Witness

Mayor Date

Witness

City Clerk Date

SECTION I: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____
as _____ principal, _____ and

Company of _____ as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of _____ (\$_____) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

2014 PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT NO. 7284

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this _____ day of _____

Countersigned:

Company Name (Principal)

Witness

President

Seal

Secretary

Approved as to form:

Surety Seal
☐ Salary Employee ☐ Commission

City Attorney

By _____
Attorney-in-Fact

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. _____ for the year 20_____, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

Date

Agent Signature

SECTION J: PREVAILING WAGE RATES

PREVAILING WAGE RATE DETERMINATION

Issued by the State of Wisconsin
Department of Workforce Development
Pursuant to s. 66.0903, Wis. Stats.
Issued On: 01/06/2014
Amended On: 02/28/2014

DETERMINATION NUMBER: 201400001

EXPIRATION DATE: Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2014. If NOT, You MUST Reapply.

PROJECT NAME: ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATS - CITY OF MADISON

PROJECT LOCATION: MADISON CITY, DANE COUNTY, WI

CONTRACTING AGENCY: CITY OF MADISON-ENGINEERING

CLASSIFICATION:	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm .
OVERTIME:	Time and one-half must be paid for all hours worked: - over 10 hours per day on prevailing wage projects - over 40 hours per calendar week - Saturday and Sunday - on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; - The day before if January 1, July 4 or December 25 falls on a Saturday; - The day following if January 1, July 4 or December 25 falls on a Sunday. Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime. A DOT Premium (discussed below) may supersede this time and one-half requirement.
FUTURE INCREASE:	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
PREMIUM PAY:	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.
DOT PREMIUM:	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
APPRENTICES:	Pay apprentices a percentage of the applicable journey person's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
SUBJOURNEY:	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project**. A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.

s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR" for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.

(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

s. 66.0903 (11) LIABILITY AND PENALTIES.

(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.

2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.

3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

BUILDING OR HEAVY CONSTRUCTION

Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
101	Acoustic Ceiling Tile Installer	30.48	15.90	46.38
102	Boilermaker Future Increase(s): Add \$1.50/hr on 1/01/2015; Add \$1.50/hr. on 01/01/2016	32.05	28.04	60.09
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.01	17.35	49.36
104	Cabinet Installer	30.48	15.90	46.38
105	Carpenter	30.48	15.90	46.38
106	Carpet Layer or Soft Floor Coverer	30.48	15.90	46.38
107	Cement Finisher	31.58	16.13	47.71
108	Drywall Taper or Finisher	24.80	16.60	41.40
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.07	19.25	53.32
110	Elevator Constructor	42.86	23.84	66.70
111	Fence Erector	24.72	0.00	24.72
112	Fire Sprinkler Fitter	36.07	18.73	54.80
113	Glazier	38.03	13.42	51.45
114	Heat or Frost Insulator	33.68	24.31	57.99
115	Insulator (Batt or Blown)	15.00	9.50	24.50
116	Ironworker	31.25	19.46	50.71
117	Lather	30.48	15.90	46.38

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
118	Line Constructor (Electrical)	38.25	17.31	55.56
119	Marble Finisher	26.89	19.18	46.07
120	Marble Mason	32.01	17.35	49.36
121	Metal Building Erector	22.00	10.00	32.00
122	Millwright	32.11	15.95	48.06
123	Overhead Door Installer	20.95	4.94	25.89
124	Painter	24.50	16.60	41.10
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
127	Pipeline Fuser or Welder (Gas or Utility)	30.79	19.74	50.53
129	Plasterer	31.03	17.71	48.74
130	Plumber Future Increase(s): Add \$1/hr on 6/1/2014.	36.42	16.87	53.29
132	Refrigeration Mechanic	41.60	16.71	58.31
133	Roofer or Waterproofer	29.40	6.25	35.65
134	Sheet Metal Worker	34.45	22.57	57.02
135	Steamfitter Future Increase(s): Add \$1.70/hr on 6/1/2014.	42.95	17.81	60.76
137	Teledata Technician or Installer Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	22.25	12.24	34.49
138	Temperature Control Installer	32.94	18.80	51.74
139	Terrazzo Finisher	26.89	19.18	46.07
140	Terrazzo Mechanic	30.20	18.42	48.62
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter	29.81	17.18	46.99
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
146	Well Driller or Pump Installer	25.32	15.65	40.97
147	Siding Installer	25.92	18.04	43.96

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
201	Single Axle or Two Axle	32.39	18.46	50.85
203	Three or More Axle	18.00	22.88	40.88
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	18.00	22.88	40.88
207	Truck Mechanic	18.00	22.88	40.88

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
301	General Laborer Premium Increase(s): Add \$1.00/hr for certified welder; Add \$.25/hr for mason tender	24.21	14.63	38.84
302	Asbestos Abatement Worker	24.36	14.44	38.80
303	Landscaper	21.01	9.37	30.38
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	21.01	13.63	34.64
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased) Premium Increase(s): DOT PREMIUMS: Pay two times the hourly basic rate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	18.33	13.65	31.98
314	Railroad Track Laborer	23.46	3.30	26.76
315	Final Construction Clean-Up Worker	16.00	0.00	16.00

**HEAVY EQUIPMENT OPERATORS
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfg'r's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfg'r's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket).	33.42	18.96	52.38
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under).	32.89	18.96	51.85
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.82	18.96	49.78
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Premium Increase(s): Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	41.65	21.71	63.36
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	37.10	21.57	58.67

507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54
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**HEAVY EQUIPMENT OPERATORS
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Premium Increase(s): Add \$.50/hr for >200 Ton / Add \$1/hr at 300 Ton / Add \$1.50/hr at 400 Ton / Add \$2/hr at 500 Ton & Over.	35.62	18.96	54.58
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over).	36.35	6.95	43.30
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type).	33.42	18.96	52.38
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket).	32.89	18.96	51.85

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	30.82	18.96	49.78
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	24.19	17.89	42.08
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment).	36.34	21.14	57.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.60/hr on 06/01/2014; Add \$1.65/hr on 06/01/2015.	32.32	18.55	50.87
516	Fiber Optic Cable Equipment Future Increase(s): Add \$1.75/hr on 02/01/2014.	27.89	17.20	45.09

SEWER, WATER OR TUNNEL CONSTRUCTION
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Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.10	18.40	53.50
105	Carpenter Future Increase(s): Add \$1.25/hr on 6/2/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.68	19.81	53.49
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	33.51	16.13	49.64
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.82	22.61	55.43
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
125	Pavement Marking Operator	16.00	7.35	23.35
126	Piledriver	30.98	15.90	46.88
130	Plumber	33.75	14.07	47.82
135	Steamfitter	42.45	16.71	59.16
137	Teledata Technician or Installer	21.89	11.85	33.74

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	38.80	20.17	58.97
146	Well Driller or Pump Installer	25.32	15.65	40.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	30.00	15.00	45.00
203	Three or More Axle	16.00	7.35	23.35
204	Articulated, Euclid, Dumptror, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	16.00	7.35	23.35
207	Truck Mechanic	16.00	7.35	23.35

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
301	General Laborer Premium Increase(s): Add \$.20 for blaster, bracer, manhole builder, caulker, bottomman and power tool; Add \$.55 for pipelayer; Add \$1.00 for tunnel work 0-15 lbs. compressed air; Add \$2.00 for over 15-30 lbs. compressed air; Add \$3.00 for over 30 lbs. compressed air.	25.60	14.62	40.22
303	Landscaper	25.28	11.46	36.74
304	Flagperson or Traffic Control Person	24.70	10.72	35.42
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

**HEAVY EQUIPMENT OPERATORS
SEWER, WATER OR TUNNEL WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes	34.62	18.96	53.58
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type).	33.42	18.96	52.38
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket).	32.89	18.96	51.85

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. Future Increase(s): Add \$1.05/hr on 6/2/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	35.11	19.45	54.56
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.19	20.94	51.13
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	24.19	17.89	42.08
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54

AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION

Includes all airport projects (excluding buildings) and all projects awarded by the Wisconsin Department of Transportation (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	32.01	17.35	49.36
105	Carpenter	30.48	15.90	46.38
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	33.51	16.13	49.64
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.07	19.25	53.32
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
124	Painter	21.87	11.37	33.24
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
133	Roofer or Waterproofer	29.40	6.25	35.65
137	Teledata Technician or Installer	21.89	11.85	33.74
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	35.50	15.89	51.39

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45
TRUCK DRIVERS				

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	34.22	19.90	54.12
203	Three or More Axle Future Increase(s): Add \$1.30/hr on 6/1/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	24.52	17.77	42.29
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.75/hr on 6/1/14); Add \$1.25/hr on 6/1/15); Add \$1.30/hr on 6/1/16); Add \$1.25/hr on 6/1/17. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	29.27	20.40	49.67
205	Pavement Marking Vehicle	23.31	17.13	40.44
206	Shadow or Pilot Vehicle	34.22	19.90	54.12
207	Truck Mechanic	23.31	17.13	40.44

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
301	General Laborer Future Increase(s): Add \$1.60/hr on 6/1/2014. Premium Increase(s): Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.32	14.63	43.95
302	Asbestos Abatement Worker	24.36	14.44	38.80
303	Landscaper Future Increase(s): Add \$1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.32	14.63	43.95
304	Flagperson or Traffic Control Person Future Increase(s): Add \$1.60/hr on 6/1/2014. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	25.67	14.63	40.30
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

**HEAVY EQUIPMENT OPERATORS
AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
531	Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.72	20.40	57.12
532	Backhoe (Track Type) Having a Mfrgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.22	20.40	56.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
533	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.72	20.40	56.12

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
534	Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.46	20.40	55.86
535	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.17	20.40	55.57
536	Fiber Optic Cable Equipment.	26.69	16.65	43.34
537	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
538	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
539	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
540	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks-Great Lakes ONLY.	34.50	20.04	54.54

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION
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Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	32.01	17.35	49.36
105	Carpenter	32.93	19.93	52.86
107	Cement Finisher	31.48	15.68	47.16
109	Electrician	31.27	22.81	54.08
111	Fence Erector	24.72	0.00	24.72
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.31	55.56
124	Painter	24.50	16.60	41.10
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.98	15.90	46.88
133	Roofer or Waterproofer	29.40	6.25	35.65
137	Teledata Technician or Installer	21.89	11.85	33.74
143	Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
144	Underwater Diver (Except on Great Lakes)	38.80	20.17	58.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
201	Single Axle or Two Axle	30.00	15.00	45.00

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
203	Three or More Axle	17.00	0.00	17.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	17.00	0.00	17.00
206	Shadow or Pilot Vehicle	30.00	15.00	45.00
207	Truck Mechanic	17.00	0.00	17.00

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
301	General Laborer	28.07	13.25	41.32
303	Landscaper Future Increase(s): Add \$1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.04	14.63	43.67
304	Flagperson or Traffic Control Person	24.70	10.72	35.42
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
314	Railroad Track Laborer	23.46	3.30	26.76

**HEAVY EQUIPMENT OPERATORS
CONCRETE PAVEMENT OR BRIDGE WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.72	20.40	57.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.22	20.40	56.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.	35.72	20.40	56.12
544	Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.	33.96	19.79	53.75
545	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oilier; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	30.32	18.46	48.78
546	Fiber Optic Cable Equipment.	26.69	16.65	43.34

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	20.17	58.97
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	20.17	58.97
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	20.04	54.54
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	20.04	54.54

**HEAVY EQUIPMENT OPERATORS
ASPHALT PAVEMENT OR OTHER WORK**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	35.12	18.46	53.58
552	Backhoe (Track Type) Having a Mfrgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	36.22	20.40	56.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
553	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb & Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.	32.89	18.96	51.85
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler.	33.67	19.48	53.15
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .	35.17	20.40	55.57
556	Fiber Optic Cable Equipment.	26.69	16.65	43.34

RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

Includes single family houses or apartment buildings of no more than four (4) stories in height and all buildings, structures or facilities that are primarily used for agricultural or farming purposes, excluding commercial buildings. For classification purposes, the exterior height of a residential building, in terms of stories, is the primary consideration. All incidental items such as site work, driveways, parking lots, private sidewalks, private septic systems or sewer and water laterals connected to a public system and swimming pools are included within this definition. Residential buildings of five (5) stories and above are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
101	Acoustic Ceiling Tile Installer Future Increase(s): Add \$1.25/hr on 6/2/2014.	33.68	19.81	53.49
102	Boilermaker	26.00	4.73	30.73
103	Bricklayer, Blocklayer or Stonemason	32.01	13.26	45.27
104	Cabinet Installer	22.00	1.05	23.05
105	Carpenter	30.48	3.24	33.72
106	Carpet Layer or Soft Floor Coverer	23.68	3.20	26.88
107	Cement Finisher	20.93	5.94	26.87
108	Drywall Taper or Finisher	22.50	0.88	23.38
109	Electrician	27.50	7.47	34.97
110	Elevator Constructor	42.86	23.84	66.70
111	Fence Erector	18.52	4.89	23.41
112	Fire Sprinkler Fitter	52.82	5.54	58.36
113	Glazier	38.03	13.42	51.45
114	Heat or Frost Insulator	30.00	0.00	30.00
115	Insulator (Batt or Blown)	19.00	14.33	33.33
116	Ironworker	31.25	19.46	50.71
117	Lather	30.48	3.24	33.72
119	Marble Finisher	26.89	19.18	46.07
120	Marble Mason	32.01	13.26	45.27
121	Metal Building Erector	17.00	3.82	20.82
123	Overhead Door Installer	12.00	0.00	12.00
124	Painter	20.00	4.22	24.22

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
125	Pavement Marking Operator	30.00	0.00	30.00
129	Plasterer	25.00	0.00	25.00
130	Plumber	30.00	10.62	40.62
132	Refrigeration Mechanic	19.75	8.56	28.31
133	Roofer or Waterproofer	17.00	3.72	20.72
134	Sheet Metal Worker	21.03	3.40	24.43
135	Steamfitter	31.72	16.10	47.82
137	Teledata Technician or Installer	24.75	8.09	32.84
138	Temperature Control Installer	22.50	0.70	23.20
139	Terrazzo Finisher	26.89	19.18	46.07
140	Terrazzo Mechanic	30.20	18.42	48.62
141	Tile Finisher	23.77	16.50	40.27
142	Tile Setter	21.00	0.00	21.00
143	Tuckpointer, Caulker or Cleaner	32.50	0.02	32.52
146	Well Driller or Pump Installer	27.60	5.80	33.40
147	Siding Installer	20.18	0.00	20.18

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
201	Single Axle or Two Axle	28.05	4.16	32.21
203	Three or More Axle	18.00	2.37	20.37
205	Pavement Marking Vehicle	18.00	2.37	20.37
207	Truck Mechanic	19.00	1.85	20.85

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
301	General Laborer	18.14	10.16	28.30
302	Asbestos Abatement Worker	17.00	3.86	20.86

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
303	Landscaper	30.00	0.00	30.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
315	Final Construction Clean-Up Worker	16.00	0.00	16.00

**HEAVY EQUIPMENT OPERATORS
RESIDENTIAL OR AGRICULTURAL CONSTRUCTION**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
557	Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type); Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Crane, Shovel, Dragline, Clamshells; Forestry Equipment, Timberco, Tree Shear, Tub Grinder, Processor; Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type); Winches & A-Frames.	29.70	20.08	49.78
558	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Backfiller; Belting, Burlap, Texturing Machine; Boiler (Temporary Heat); Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Jeep Digger; Lift Slab Machine; Mulcher; Oiler; Post Hole Digger or Driver; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Roller (Rubber Tire, 5 Tons or Under); Screed (Milling Machine); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Stump Chipper; Telehandler; Vibratory Hammer or Extractor, Power Pack.	29.70	16.00	45.70

***** END OF RATES *****

APPENDIX 1:
MANUFACTURERS' PLAYGROUND EQUIPMENT
INSTALLATION INSTRUCTIONS

Notes for all instructions, installation time estimates, equipment perspectives and footing layouts:

1. Equipment perspectives provided by manufacturer do not reflect correct placement of play structure and swings in the field. Refer to site plans for placement of components on site. Perspectives are provided for reference only.
2. Installation hours have been provided by manufacturer for information only and are not to be assumed to be the actual time required to install parts. The Contractor will not be compensated to discrepancies between estimated install hours and Contractor's actual install hours.
3. Footing plans provided by manufacturer do not reflect correct placement of play structure and swings in the field. Refer to site plans for placement of components on site. Footing plans are provided for reference only.

DROSTER PARK

MANUFACTURERS' INSTALLATION INFORMATION

DROSTER PARK

MADISON, WI

OPTION #1

ER
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
www.leerecreation.com
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com



DROSTER PARK

MADISON, WI OPTION #1



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW013014

Use Zone:

of Users: 43

of Active Play Events: 14

Colors Shown:



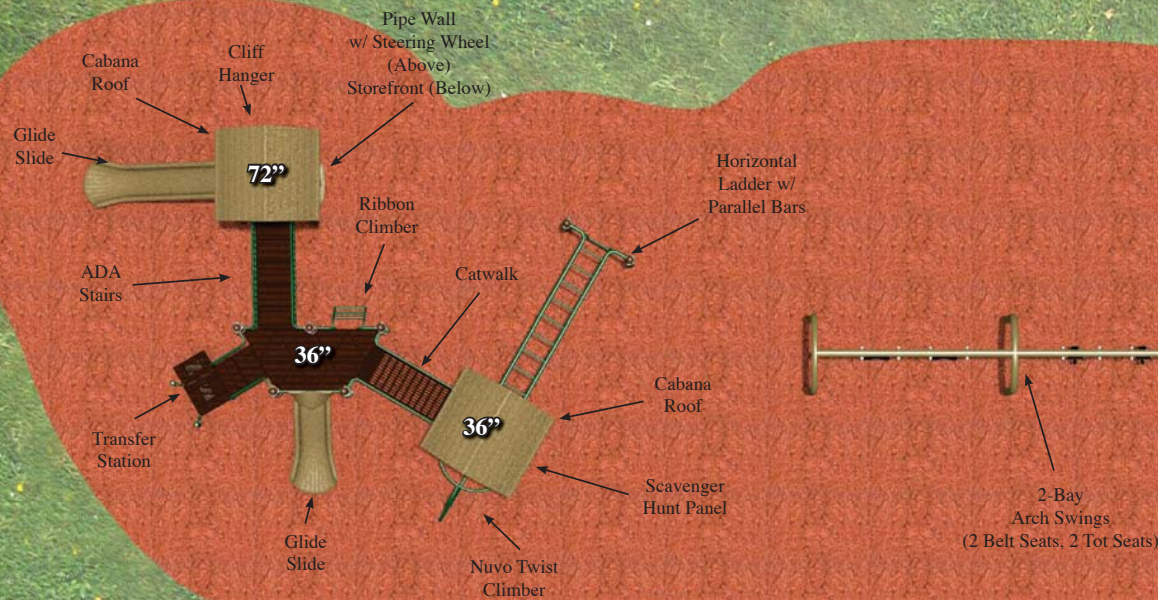
Chocolate



Green



Sand



Droster

Design Number: 1 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0
5	ZZPM0016	3	5in OD X 120in STEEL POST W/ RIVETED CAP	Certified	201.33		298	0	3.00	0.39	0
6	ZZPM0026	4	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	296.84		434	0	4.00	0.48	0
7	ZZPM0057	4	5in OD X 168in STEEL POST W/O CAP	Certified	367.24		506	0	4.00	0.52	0
8	ZZPM0129	4	5in OD x 192in STEEL POST W/O CAP	Certified	421.64		578	0	4.00	0.48	0
9	ZZPM0616	2	SQUARE COATED DECK ASSEMBLY	Certified	180.72		441	8	2.00	0.00	0
10	ZZPM0618	1	1/2 HEX COATED DECK ASSEMBLY	Certified	111.82		353	5	1.00	0.00	0
11	ZZPM2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	155.24		329	2	2.00	0.09	0
12	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83		72	1	1.00	0.04	0
13	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44		678	2	2.00	0.03	1
14	ZZPM3127	1	GLIDE SLIDE (36in DECK)	Certified	111.54		399	2	2.00	0.03	1
15	ZZPM4546	1	SCAVENGER HUNT (DECK LEVEL)	Certified	52.85		568	3	2.00	0.00	1
16	ZZPM4646	1	STOREFRONT PANEL	Certified	44.80		279	2	1.00	0.00	1
17	ZZUN4300	1	STEERING WHEEL (PIPE WALL MOUNT)	Certified	5.39		28	1	0.25	0.00	1
18	ZZPM4090	1	CENTERLINE PIPE WALL BARRIER	Certified	37.22		95	0	0.50	0.00	0
19	ZZPM6956	1	NUVO SWERVE CLIMBER	Certified	110.73		615	2	2.00	0.00	1
20	ZZPM6976	1	CLIFF HANGER (72in DECK)	Certified	115.20		691	2	2.00	0.00	1
21	ZZPM7046	1	36in TWIST CLIMBER	Certified	92.65		586	1	1.50	0.03	1
22	ZZPM8289	1	RIBBON CLIMBER (36in DECK)	Certified	51.98		126	2	1.50	0.06	1



Droster

Design Number: 1 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	26.16		77	1	1.50	0.06	0
24	ZZPM6936	1	HORIZONTAL LADDER W/ PARALLEL BARS	Certified	136.23		273	1	0.00	0.00	1
25	ZZPM9846	2	CABANA ROOF	Certified	246.10		1,054	0	1.00	0.00	0
26	ZZPM9177	1	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	286.99		640	2	1.50	0.00	0
Totals:					3,650.56	523	11,346	41	46.75	2.99	14
					1,642.75 Kg	235 Kg	446 Kg	11 Metric Tons		2.27 m3	



Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)



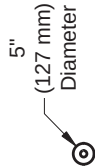
Assembly View (representative model)

Installation Preparation

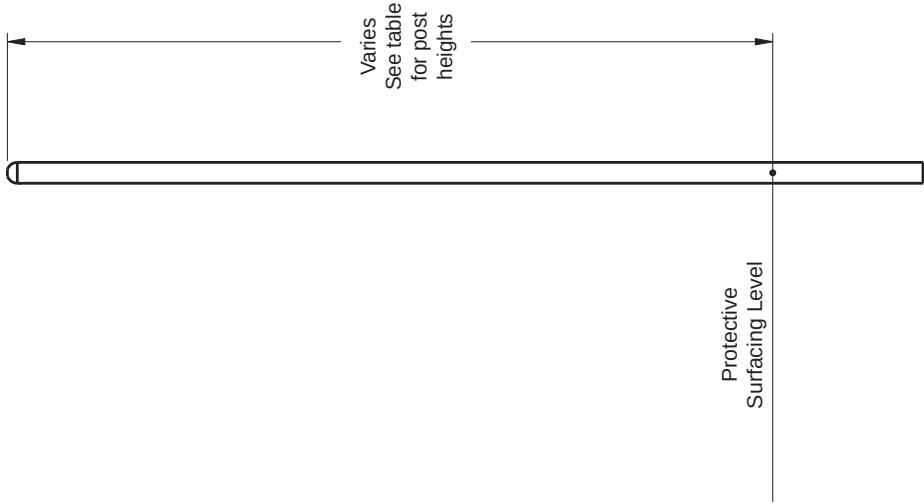
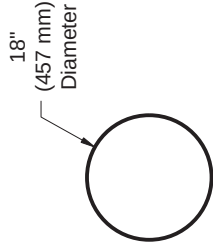
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24.4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27.2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34.2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34.2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36.4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49.5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41.6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46.8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53.6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49.5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51.8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)



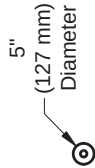
Assembly View (representative model)

Installation Preparation

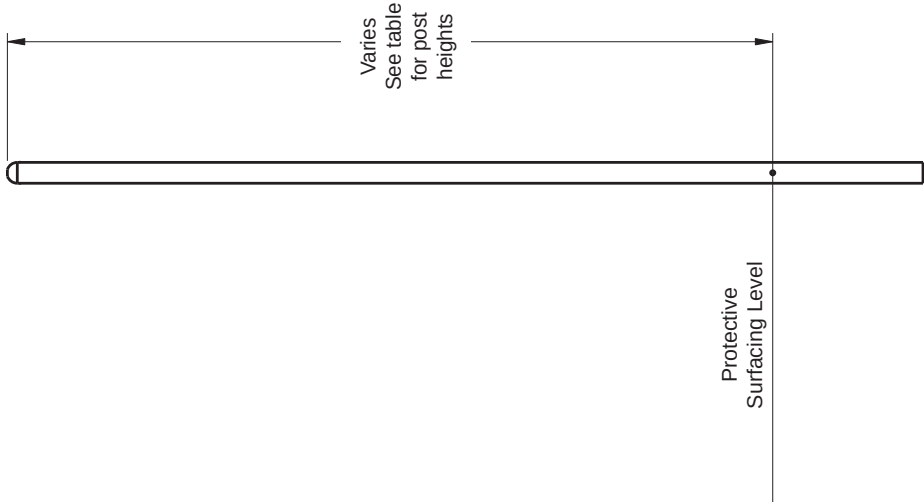
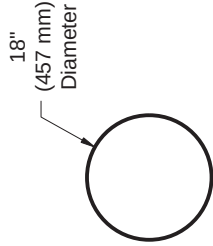
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24.4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27.2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34.2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34.2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36.4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49.5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41.6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46.8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53.6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49.5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51.8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



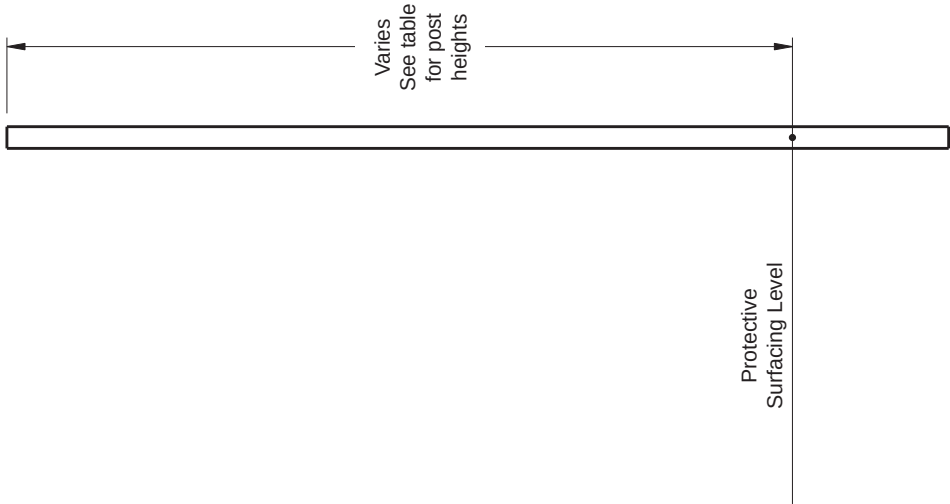
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



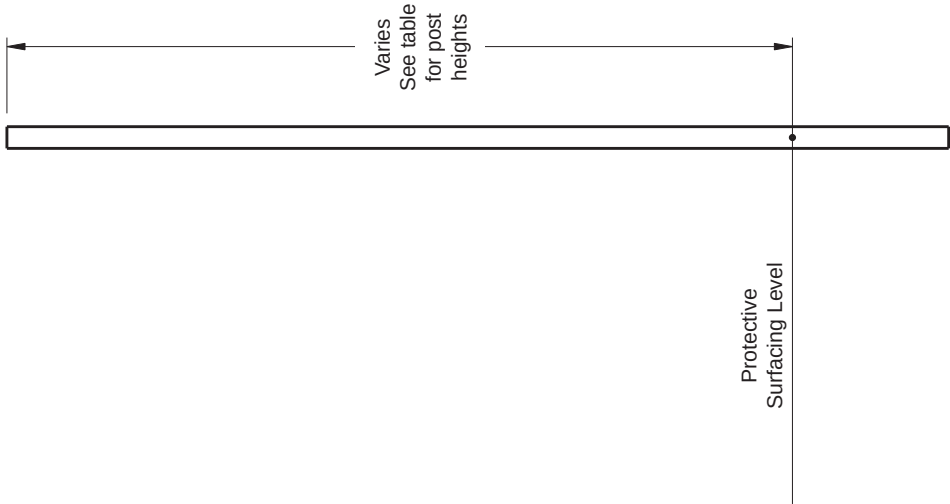
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

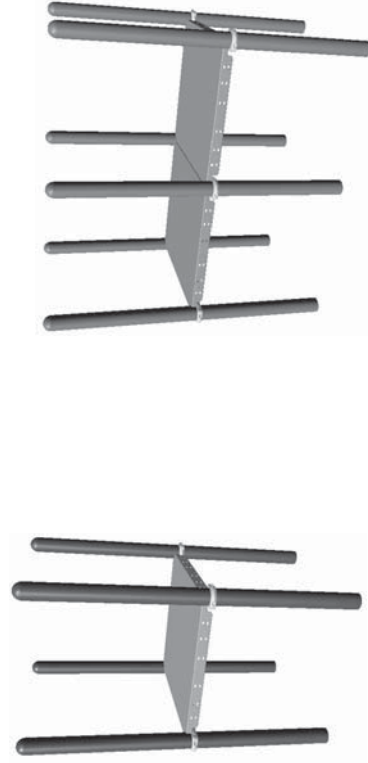
Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck

ZZPM0629
Long Deck

Assembly View

Installation Preparation

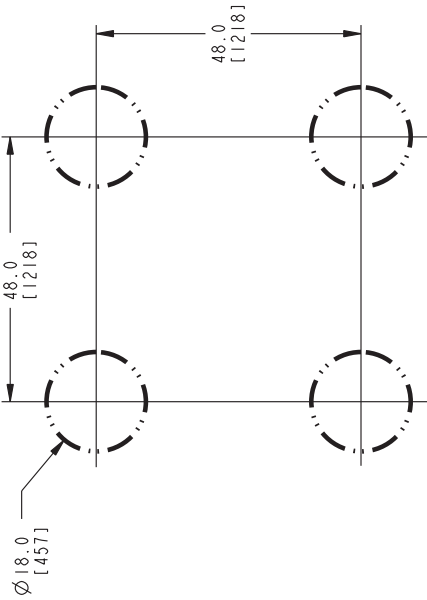
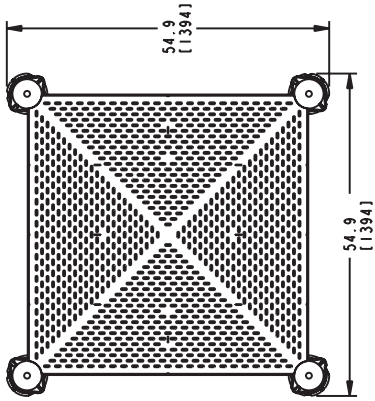
Recommended Crew (PM0616): Two (2) adults
 Recommended Crew (PM0629): Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Pour Concrete
	Drill	Dig Footing Holes
	Hammer	Critical Fall Height

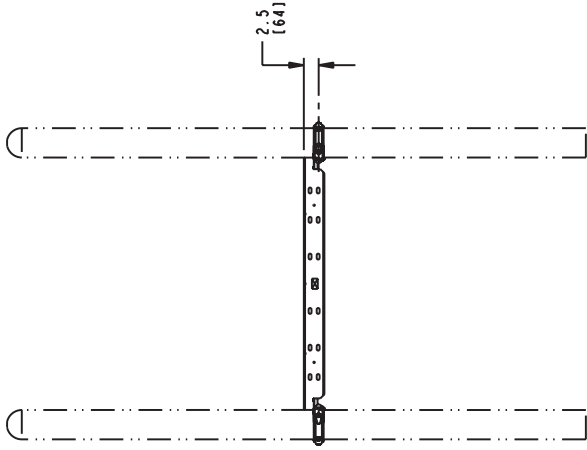
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



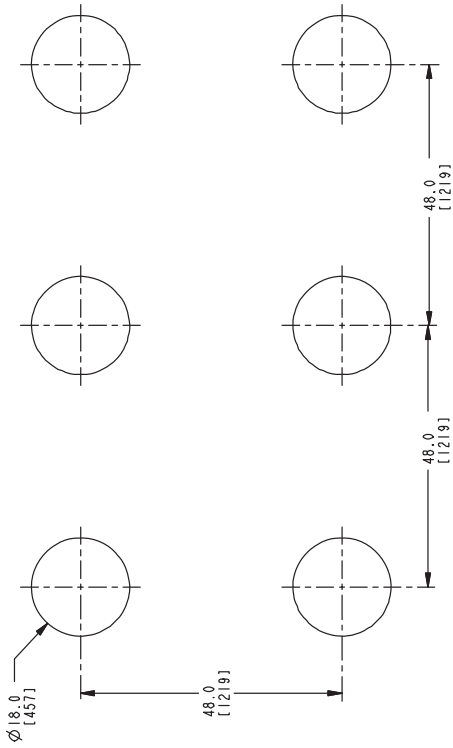
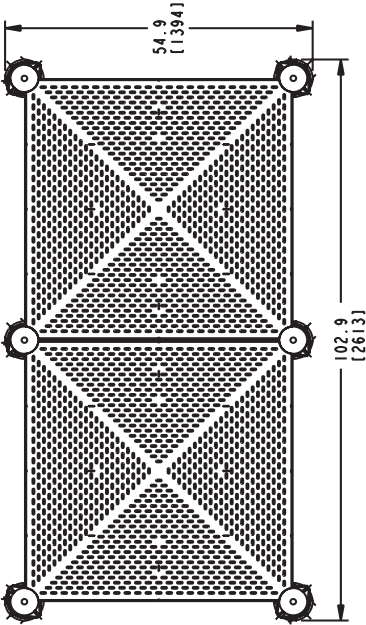
Elevation View
Model PM0616



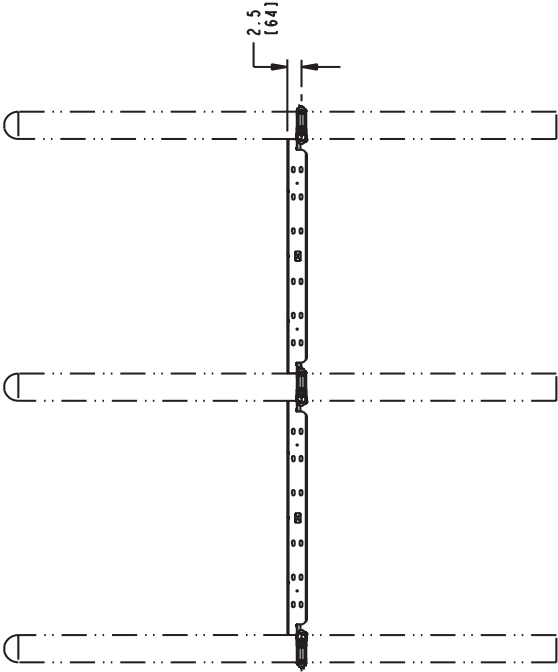
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	Millimeters	

Top View



Footing Diagram

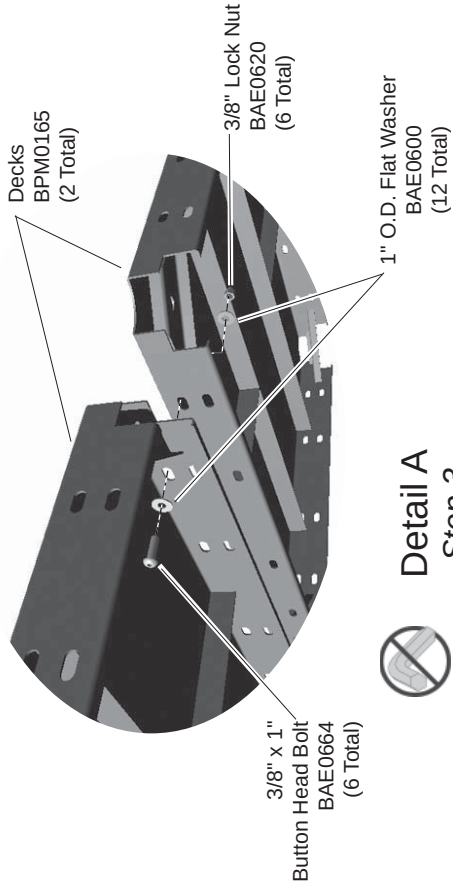


Equal to the height of the deck

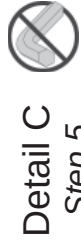
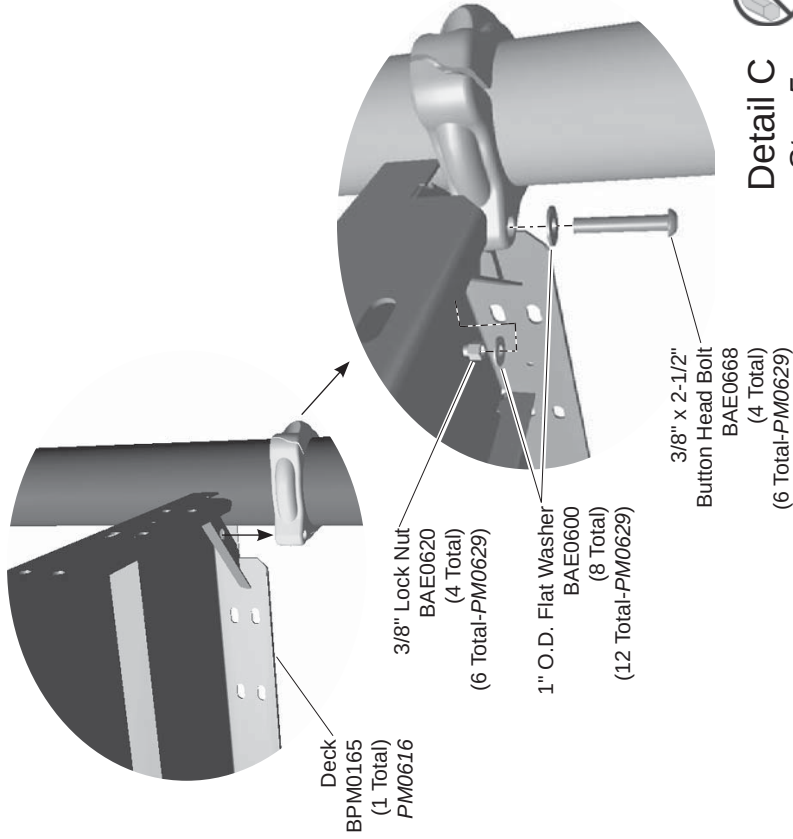
Elevation View
Model PM0629

Installation Instructions

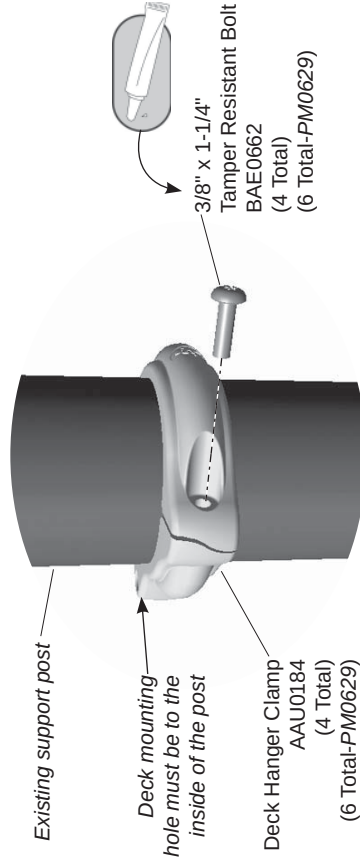
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



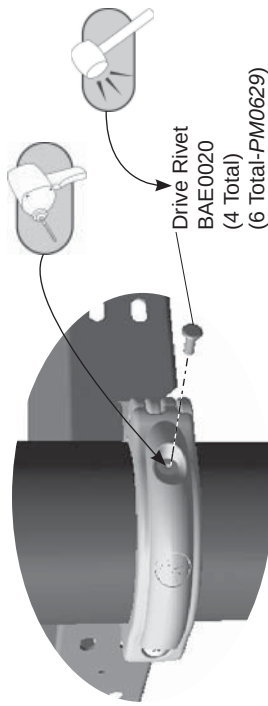
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail C
Step 5
Attach the decks to the clamps.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail D
Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0165	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0165	PLATFORM - PM SQUARE PERF	2



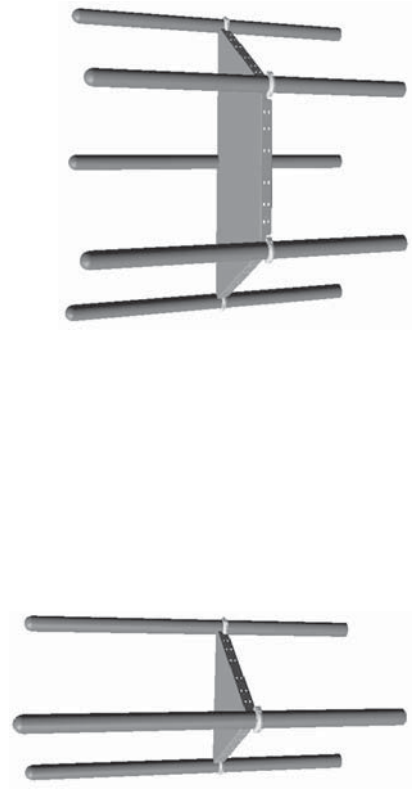
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Installation Instructions

Playmakers® PM0617, and PM0618

Triangular and Half Hex

Coated Perforated Decks



ZZPM0617
Triangular Deck

ZZPM0618
Half Hex Deck

Assembly View

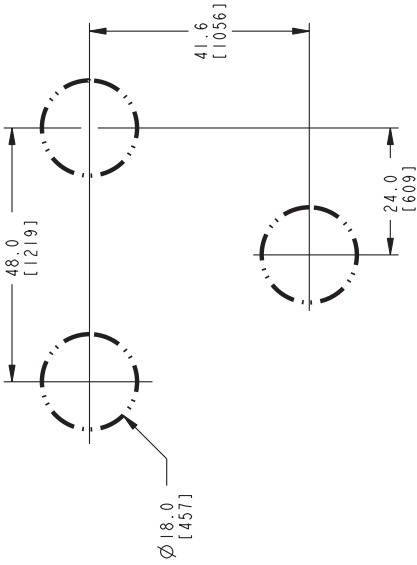
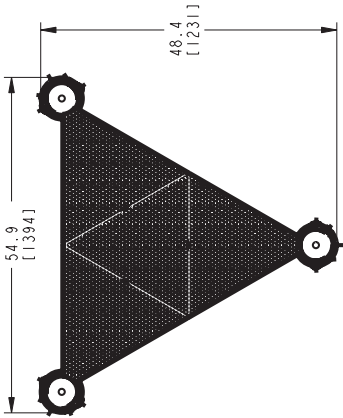
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

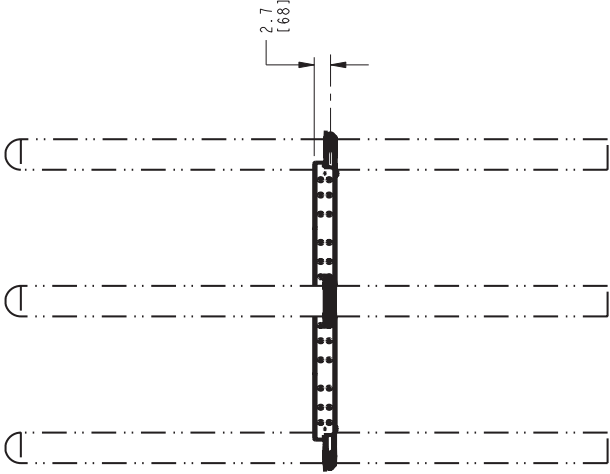
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



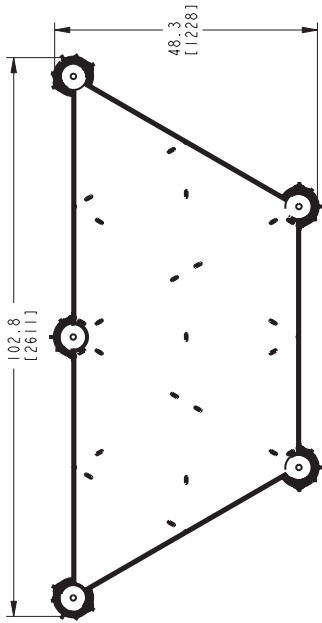
Elevation View
Model PM0617



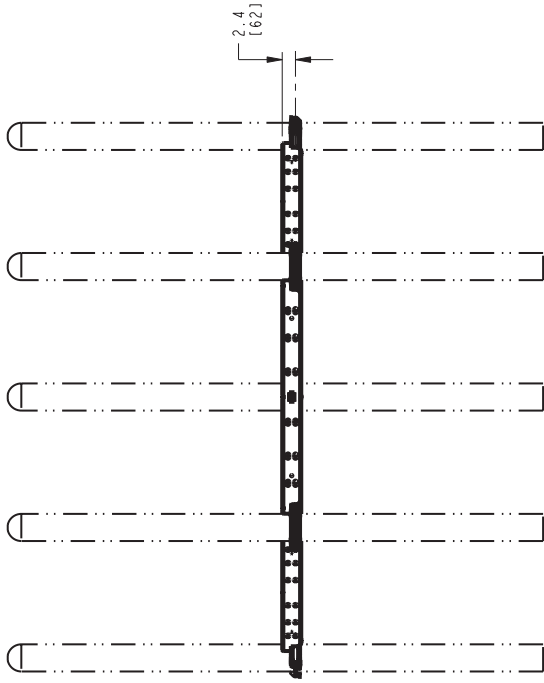
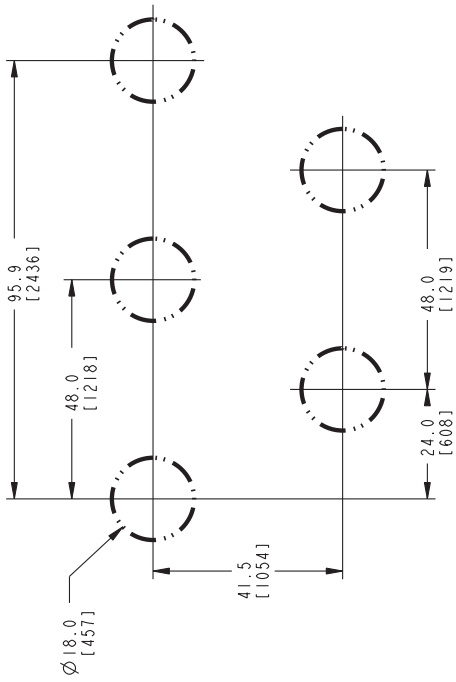
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

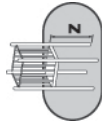
Top View



Footing Diagram



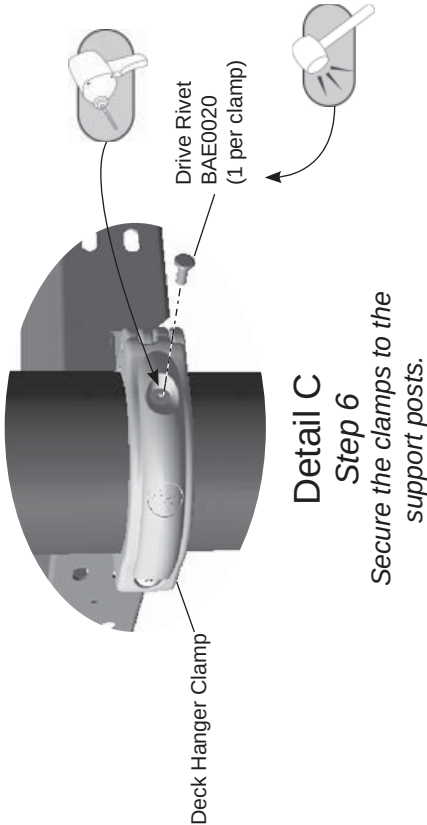
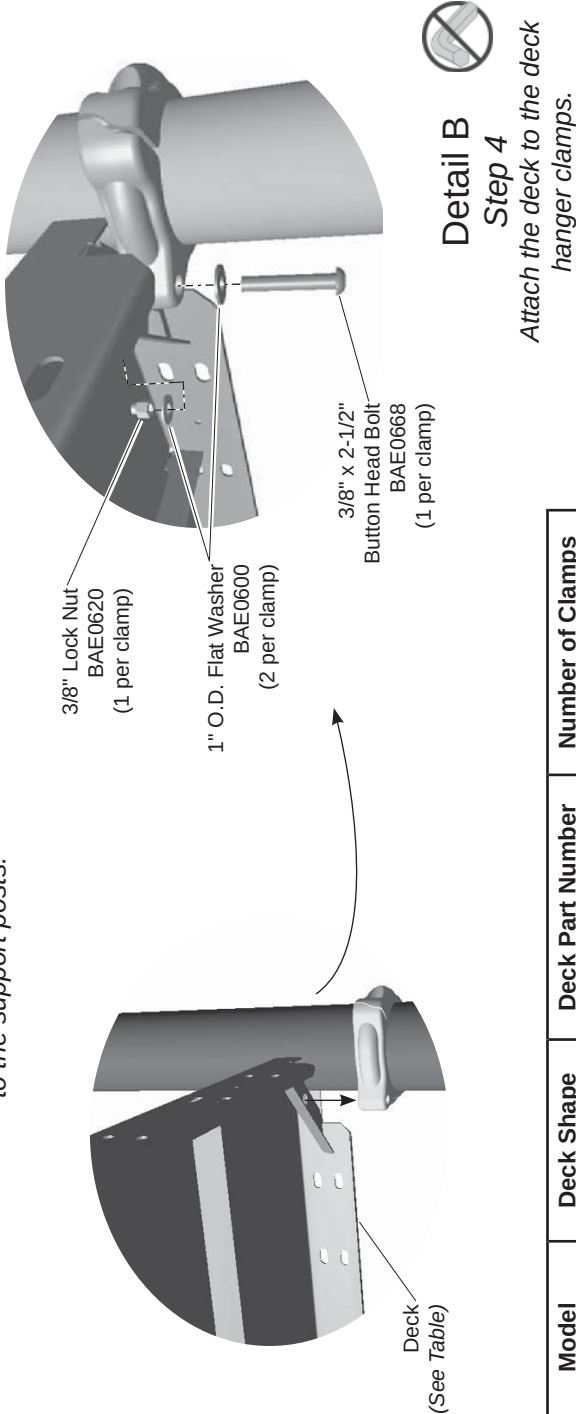
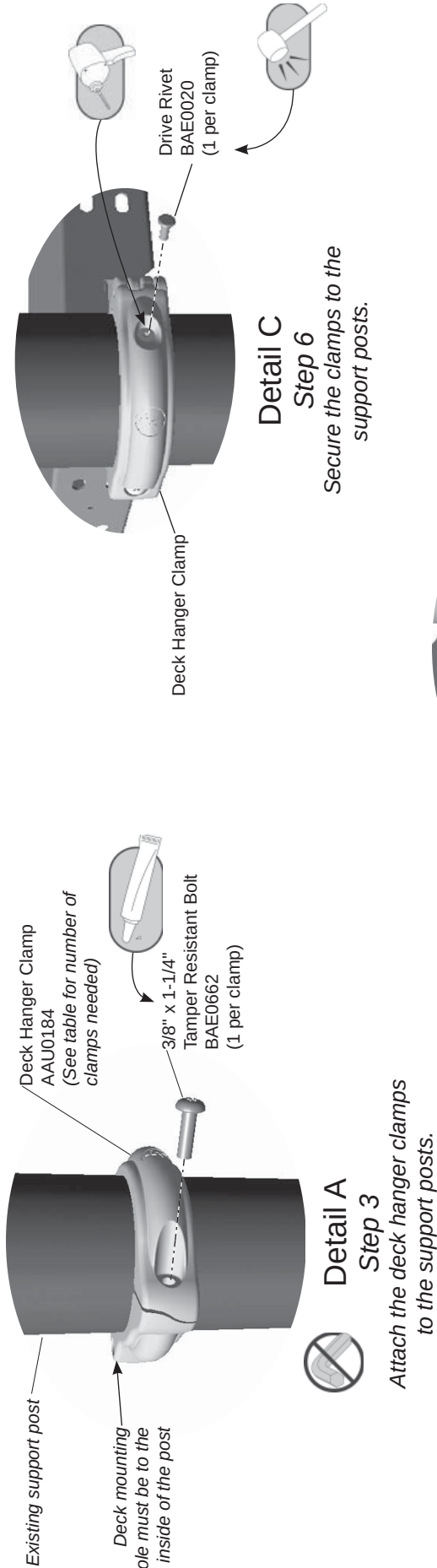
Equal to the height of the deck



Elevation View
Model PM0618

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Deck Shape	Deck Part Number	Number of Clamps
ZZPM0617	Triangular	BPM0166	3
ZZPM0618	Half Hex	BPM0167	5



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A** and the **Parts Table** on **page 4**. Select the appropriate number of deck hanger clamps for your deck model and hardware. There is (1) one connection per clamp. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B** and the **Parts Table** on **page 5**. Select the appropriate deck and hardware. There is (1) one connection per clamp to deck. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

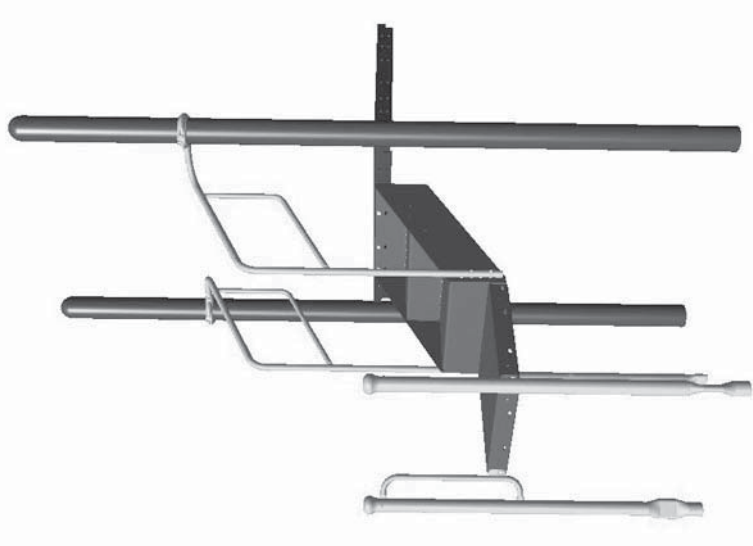
PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0166	PLATFORM - PM TRIANGULAR PERF	1

PM0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	5
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	5
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	5
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	5
BPM0167	PLATFORM - PM HALF HEX PERF	1

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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM2006	36" (915 mm)	172.7 lbs. (78,5 kg)
ZZPM2006S	36" (915 mm)	168.8 lbs. (76,7 kg)
ZZPM2007	36" (915 mm)	176.7 lbs. (80,3 kg)
ZZPM2007S	36" (915 mm)	172.8 lbs. (78,5 kg)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S

36 in. (914 mm) Transfer Station and

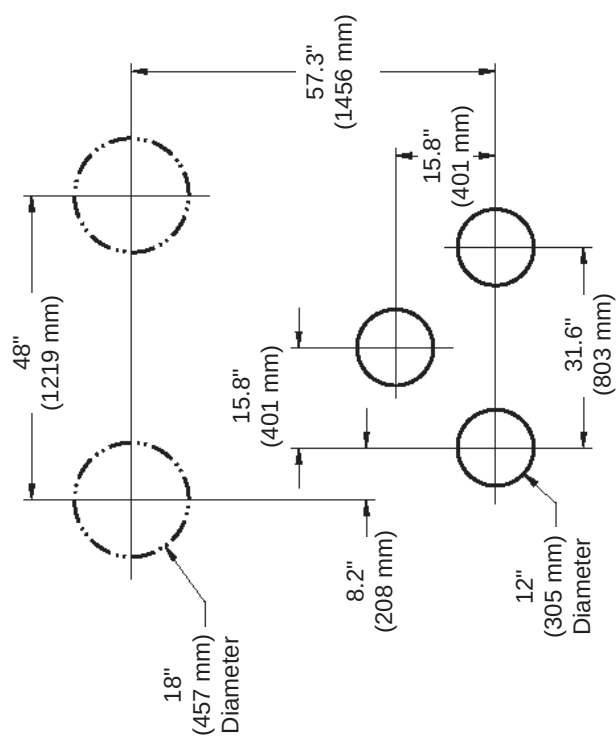
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

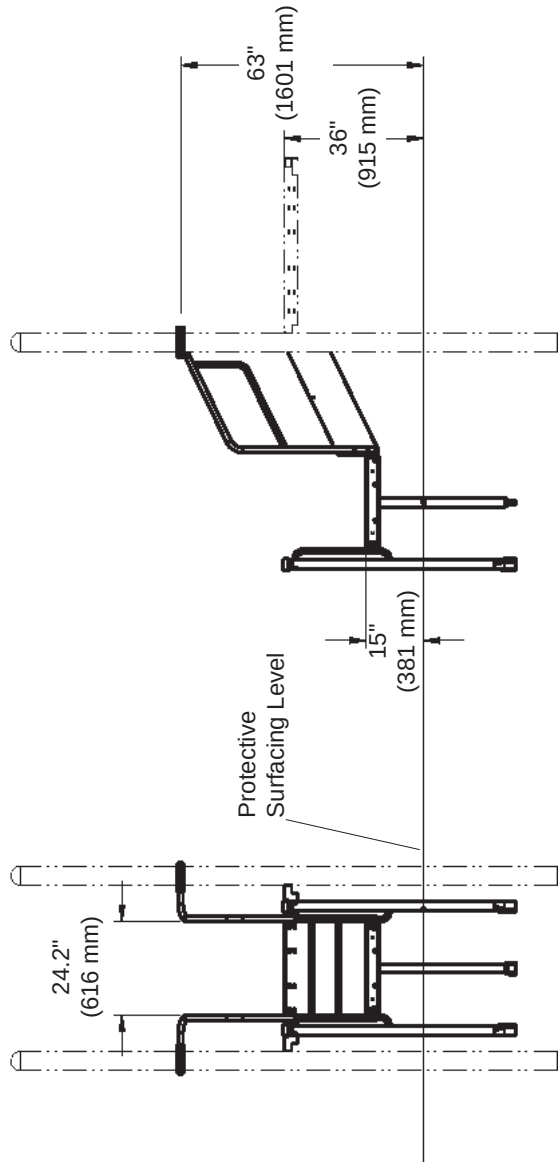
Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Weight: refer to chart
 Concrete Required: 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



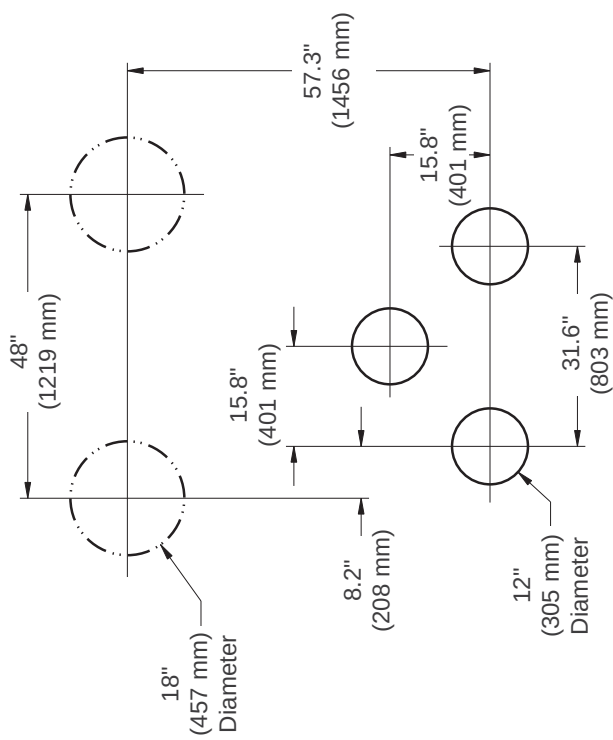
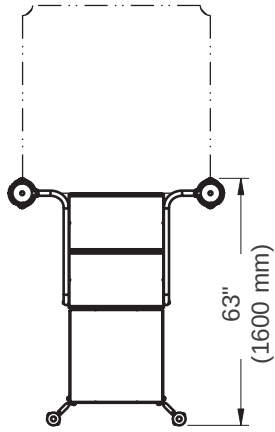
Footing Diagram



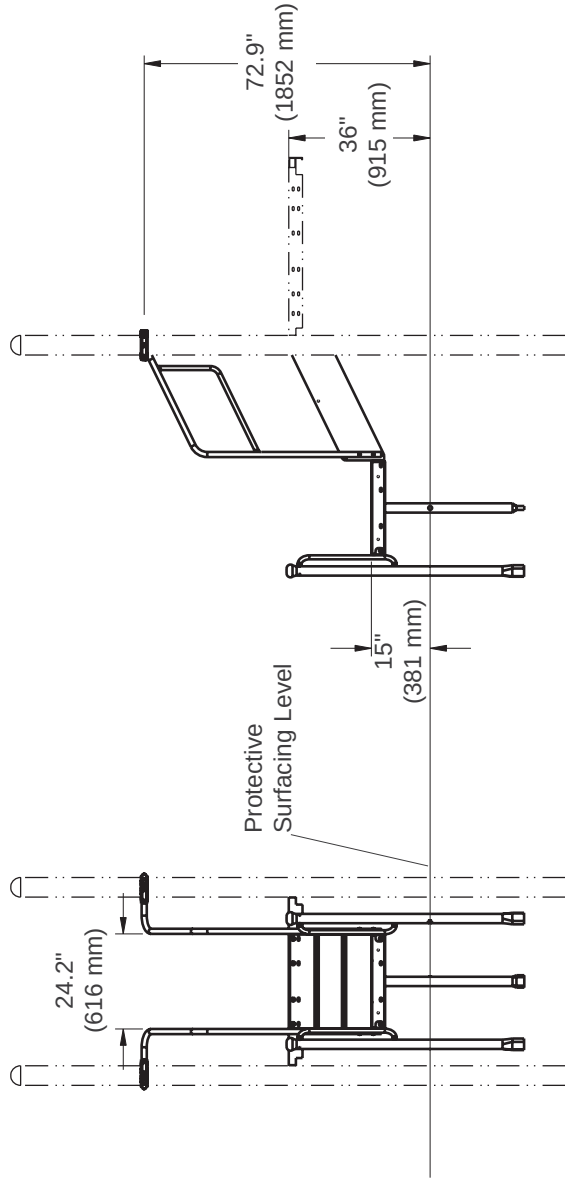
Elevation View
PM2006 (S)

Installation Instructions

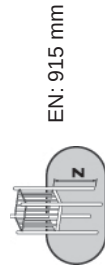
Top View



Footing Diagram

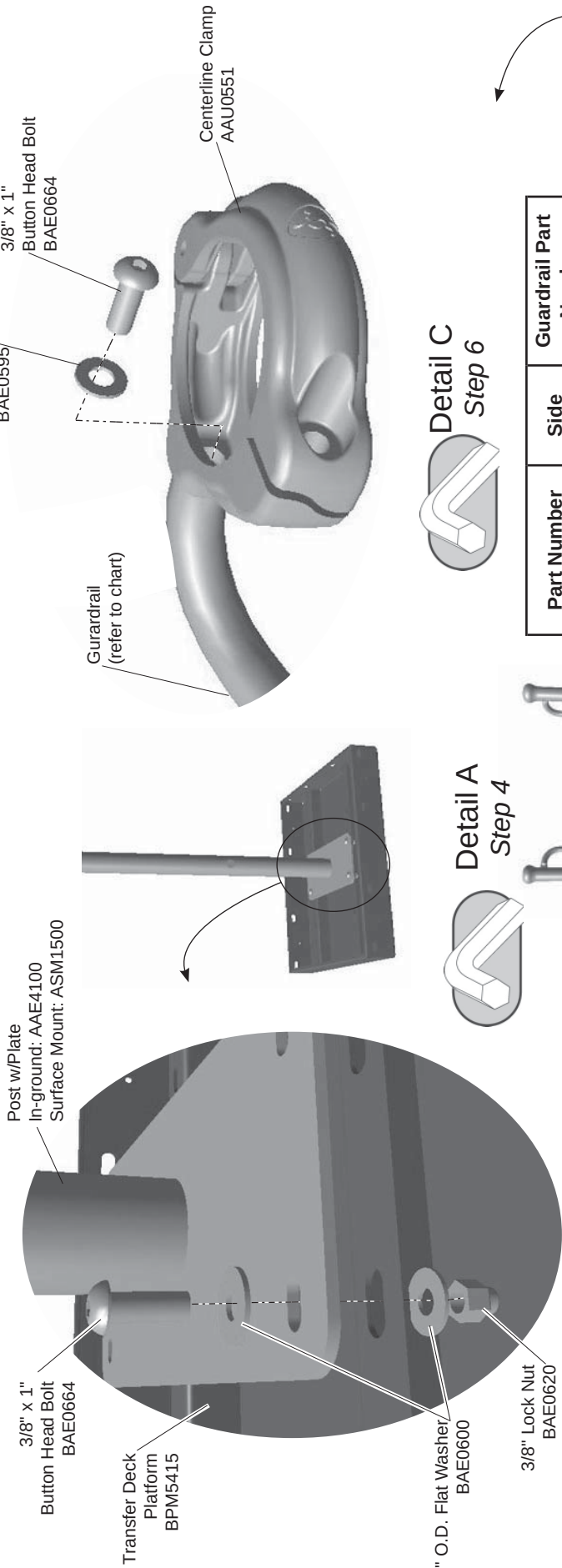


Elevation Views
PM2007 (S)

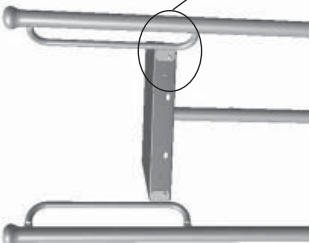


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

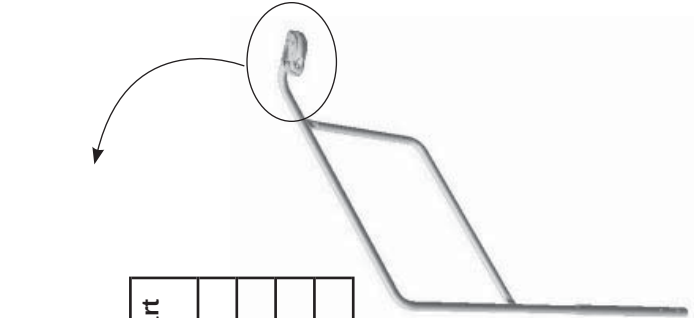


Detail A
Step 4



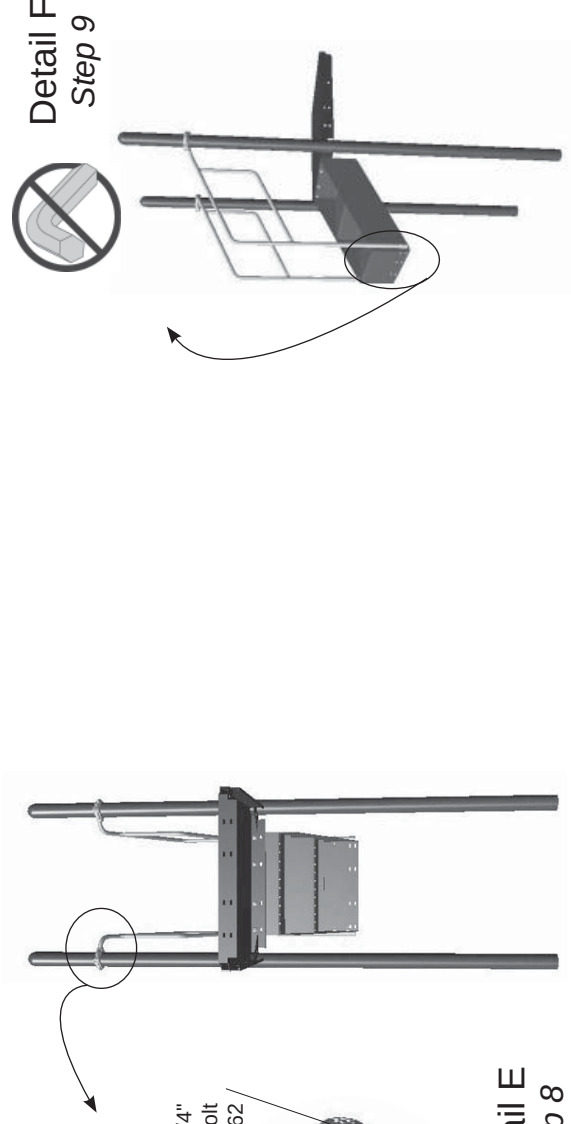
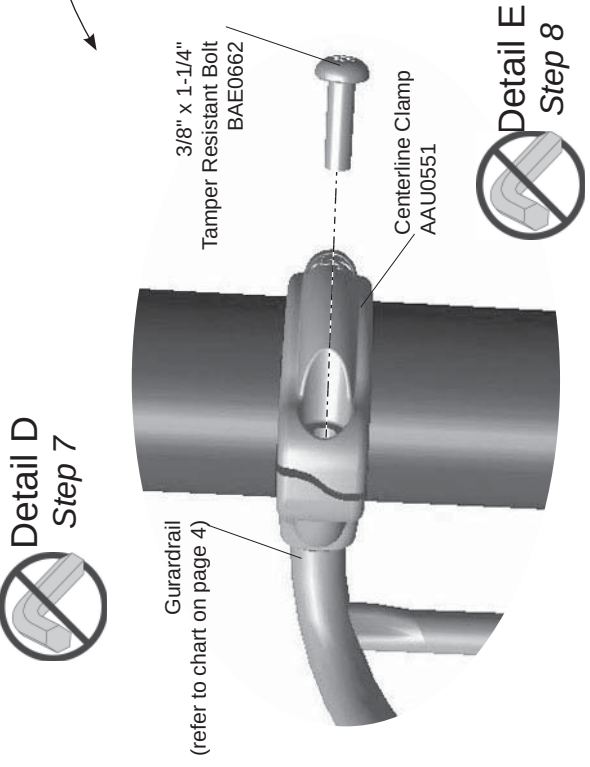
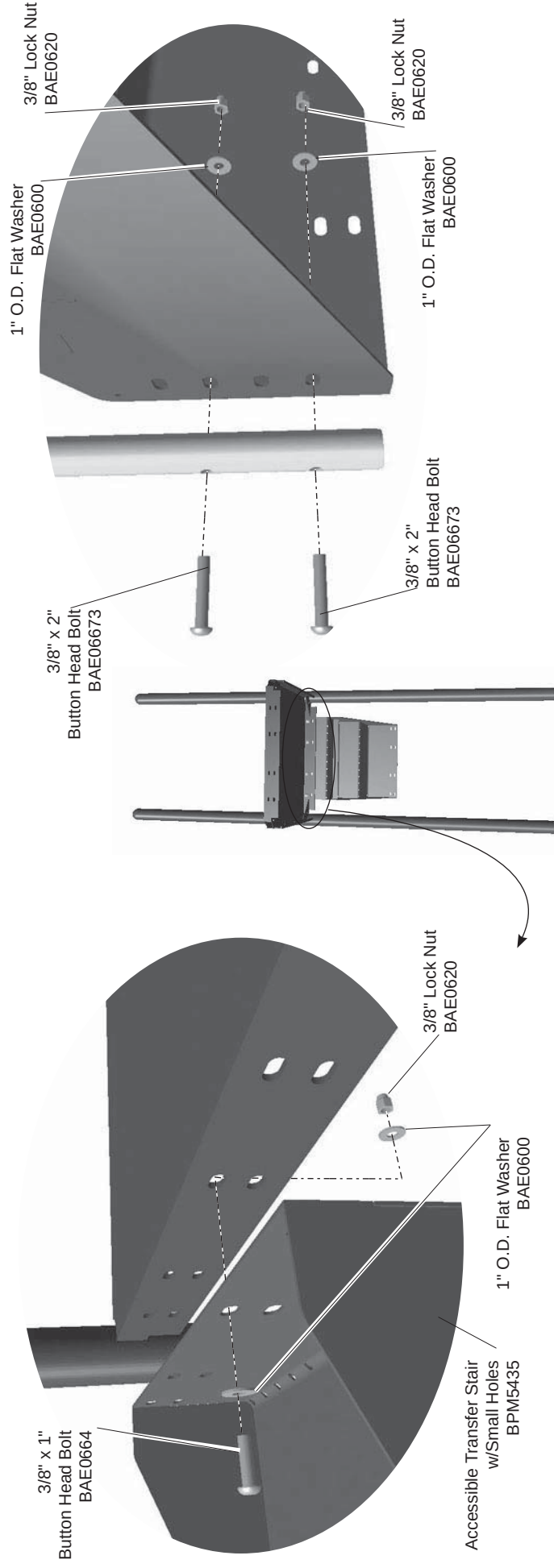
Detail B
Step 5

Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR00055
ZZPM2006 (S)	Right	AHR00054
ZZPM2007 (S)	Left	AHR00057
ZZPM2007 (S)	Right	AHR00056

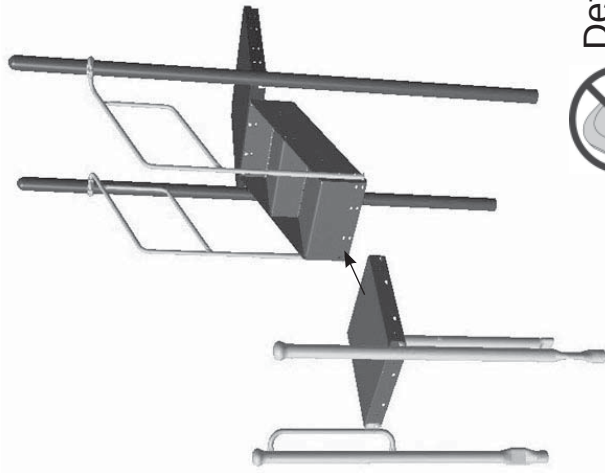


Detail C
Step 6

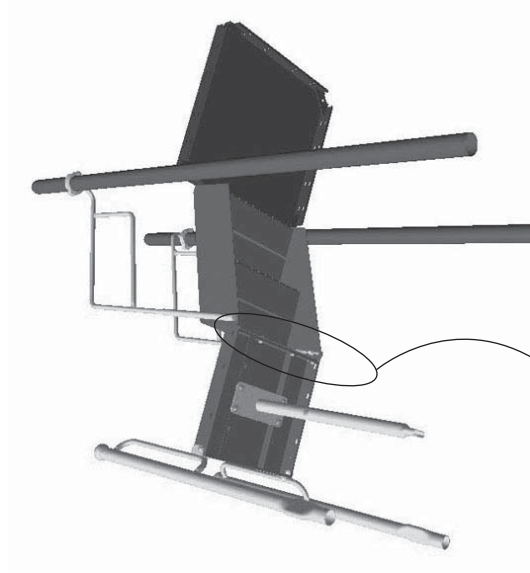
Installation Instructions



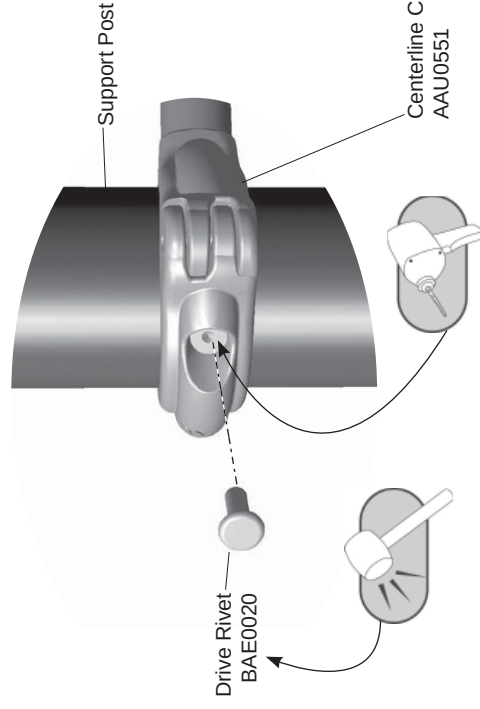
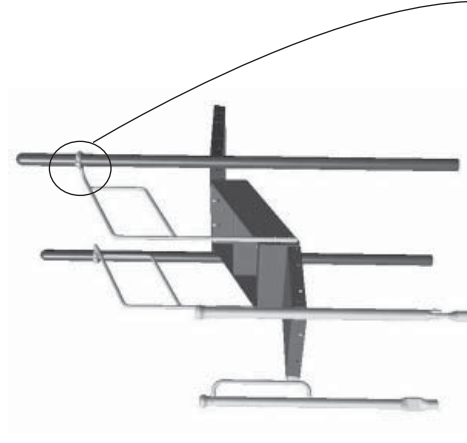
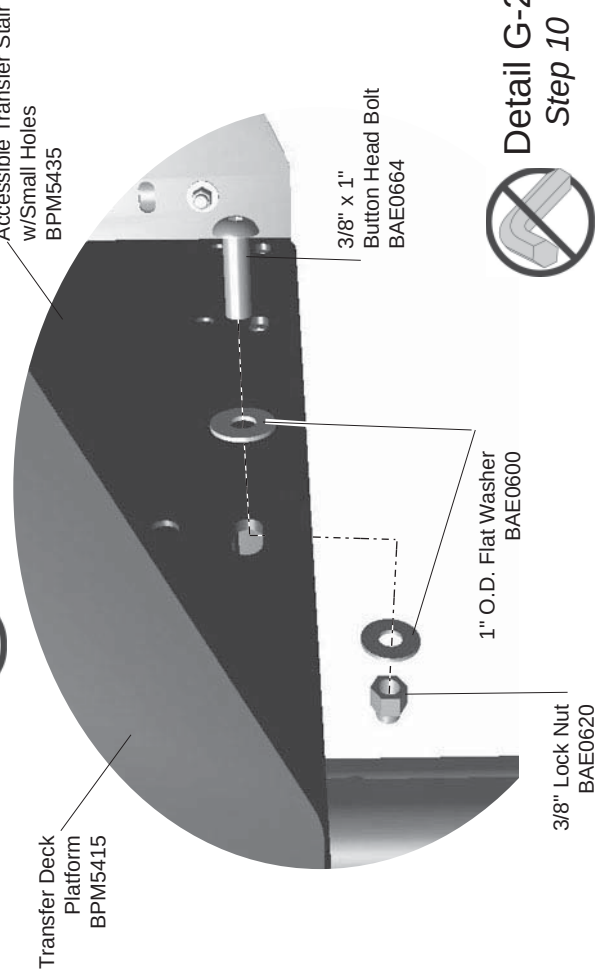
Installation Instructions



Detail G-1
Step 10



Detail G-2
Step 10



Detail H
Step 12

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate or prepare footings as shown in the **Component Footing Details** in the *Playmaker Guidelines at the beginning of this document*.

Attach the transfer deck support leg to the transfer deck.

__Step 4: Attach the transfer deck support leg to the underside of transfer deck. See **Detail A**. Select the transfer deck, the transfer deck support leg, and the appropriate hardware. There are (4) four connections. Flip the transfer deck over and align the holes in the support leg mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbitts to transfer deck.

__Step 5: Attach grabbitts to transfer deck. See **Detail B**. Select (2) two grabbitts, the transfer deck assembly, the appropriate hardware. There are (2) two connections per grabbit post, (4) four total connections. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

__Step 6: Attach the clamps to guardrails. See **Detail C**. Select both accessible stair guardrails, the centerline clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the end of each guardrail top and bottom rail against the neck of each clamp. Attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

__Step 7: Attach the stairs to existing support deck. See **Detail D**. Select the stairs and the appropriate hardware. There are (4) four connections. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

__Step 8: Attach guardrails to the support posts. See **Detail E and Elevation View**. Select both guardrail assemblies and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

__Step 9: Attach the guardrails to the stair. See **Detail F**. Select the appropriate hardware. There are (2) two connections per guardrail, (4) four total connections. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

__Step 10: Attach transfer deck assembly to the stair. See **Details G-1 and G-2**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Installation Instructions

Final Details.

___ **Step 11:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

___ **Step 12:** Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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Bill of Materials

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SMALL HLS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBLE COATED TRANSFER w/SMALL HLS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBL COATED TRANSFER w/SMALL HLS	1

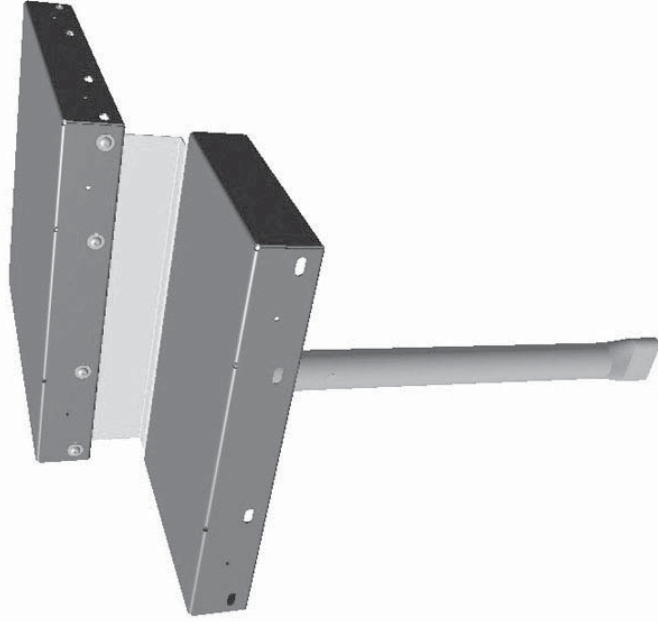
ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSIBLE COATED TRANSFER w/SMALL HLS	1



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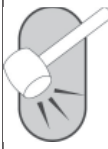
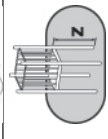
Assembly View

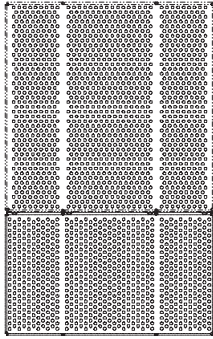
Installation Instructions Universal Model UN2019 Platform Approach Step

Installation Preparation

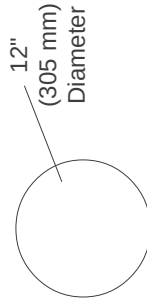
Recommended Crew: Two (2) adults
Installation Time: 1 installation-hours
Weight: 40.4 lbs. (18,2 kg)
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

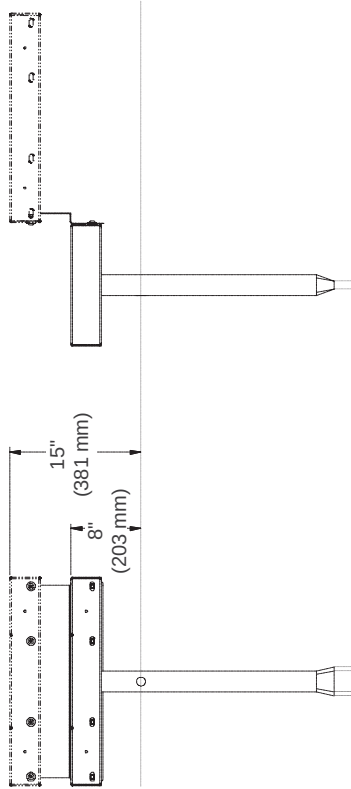
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Top View



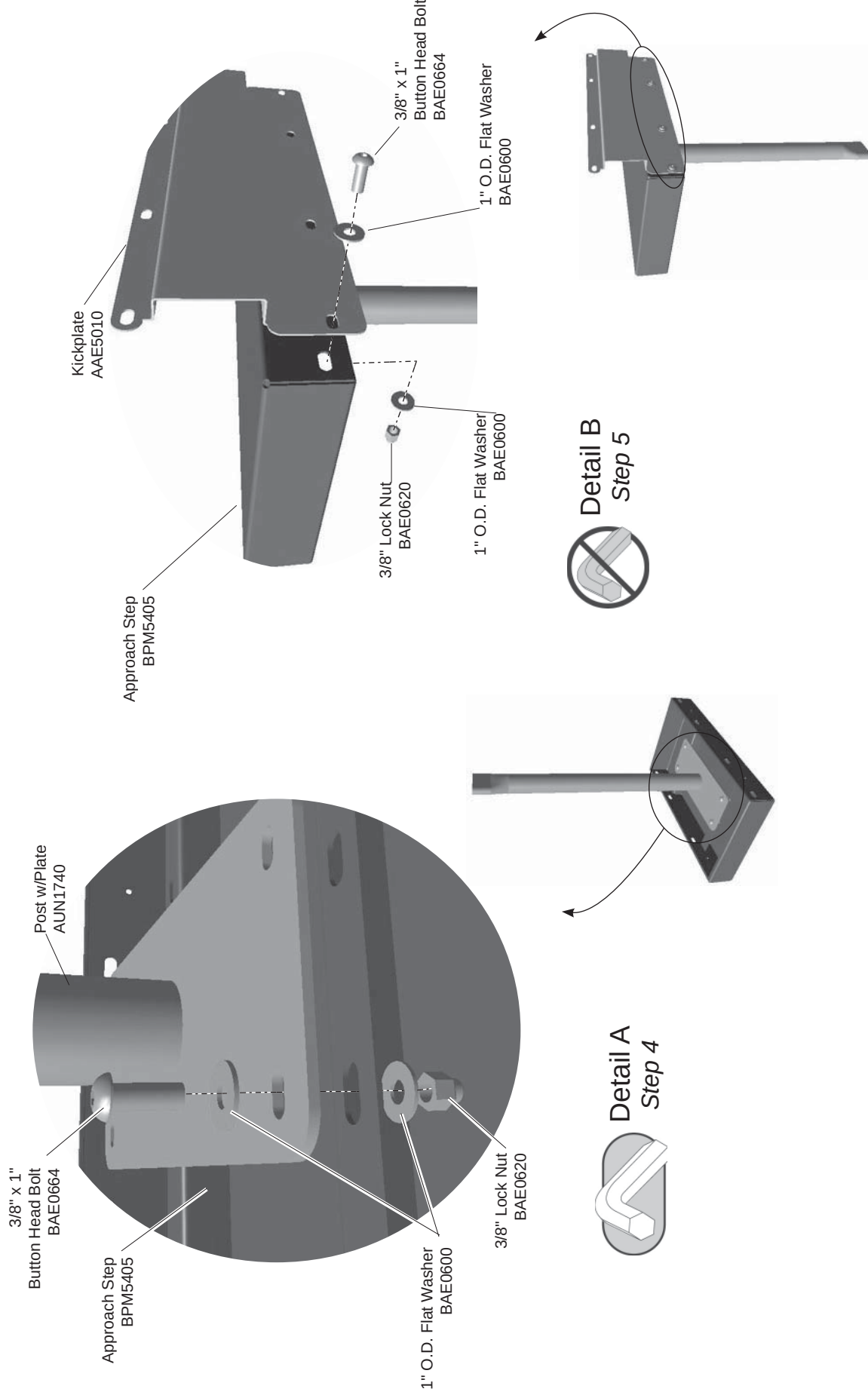
Footing Diagram



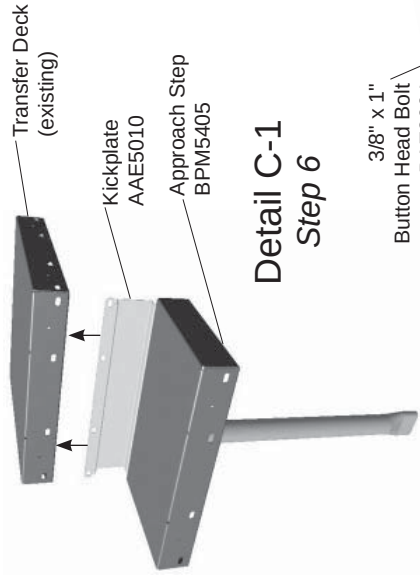
Elevation Views

Installation Instructions

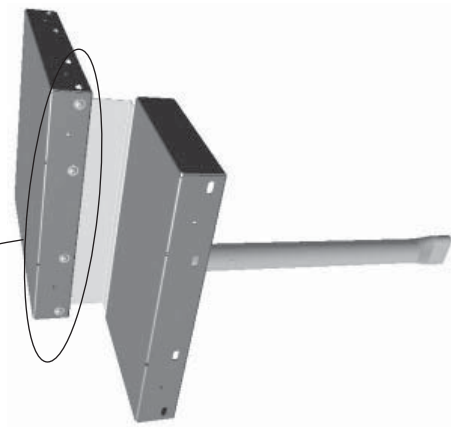
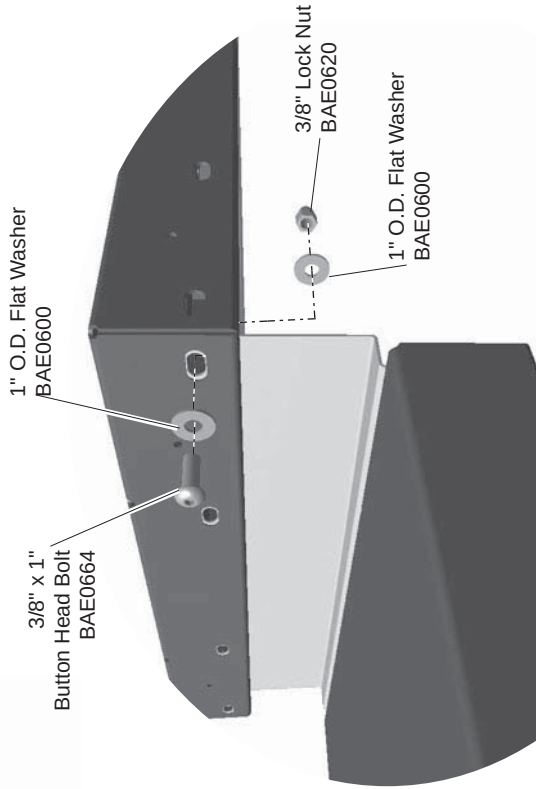
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions



Detail C-1
Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

__Step 4: Attach the support leg to the approach step. See **Detail A**. Select (1) one approach step, (1) one support leg, and the appropriate hardware. There are (4) four connections. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

__Step 5: Attach the kickplate to the approach step. See **Detail B**. Select the kickplate and the appropriate hardware. There are (4) four connections. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

__Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM5405	PLATFORM- 14" x 24" APPROACH STEP w/SMALL HOLES	1

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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24" -60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

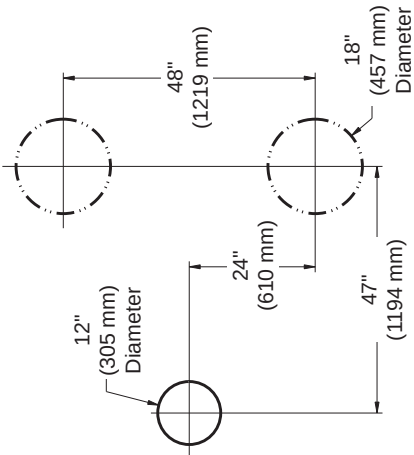


Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

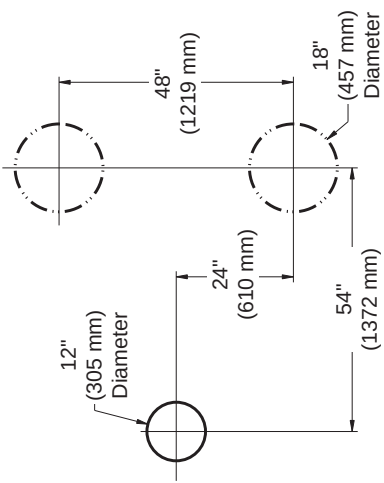
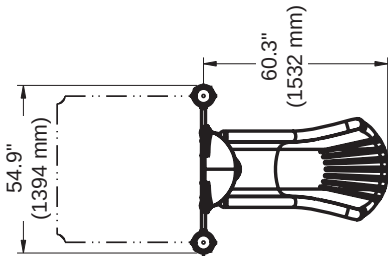
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

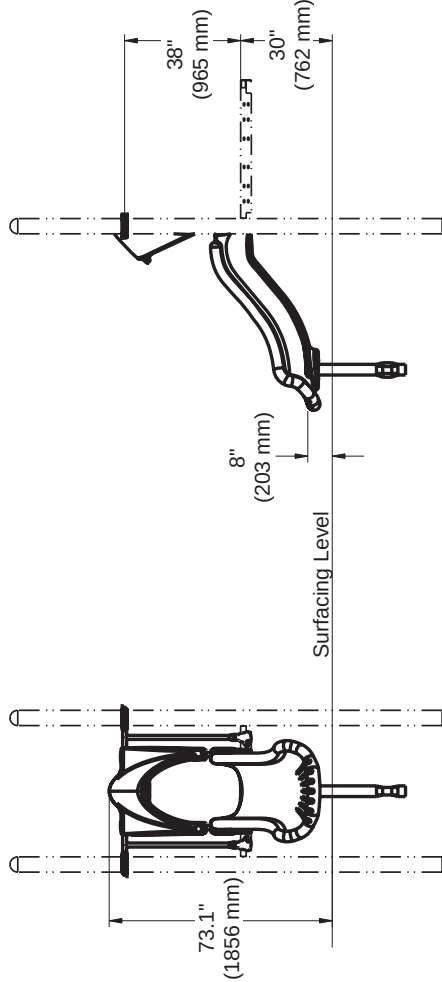
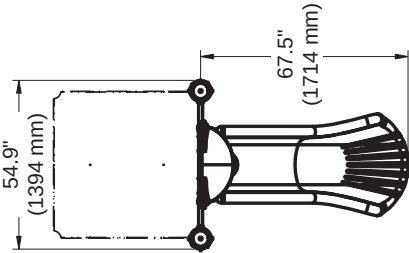


Footing Diagram

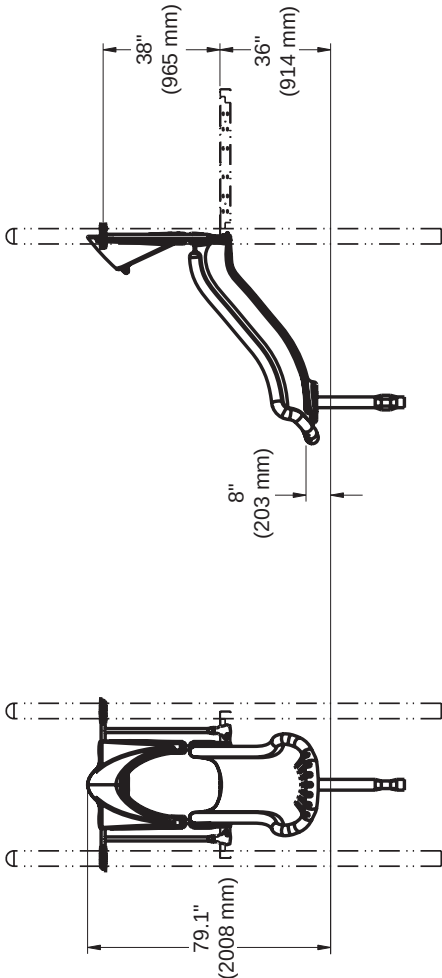
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram



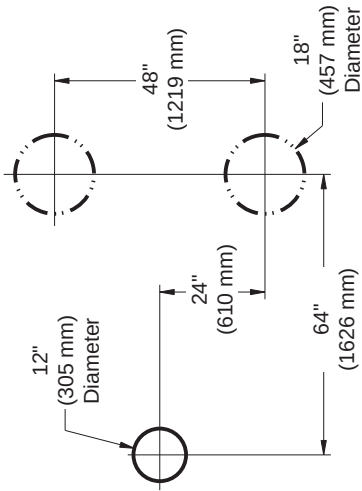
Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)



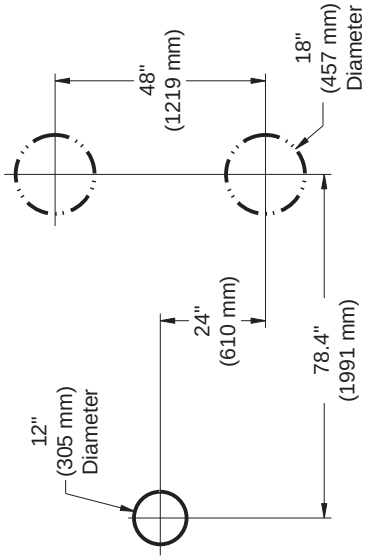
Elevation View PM3127 - 36" Glide Slide



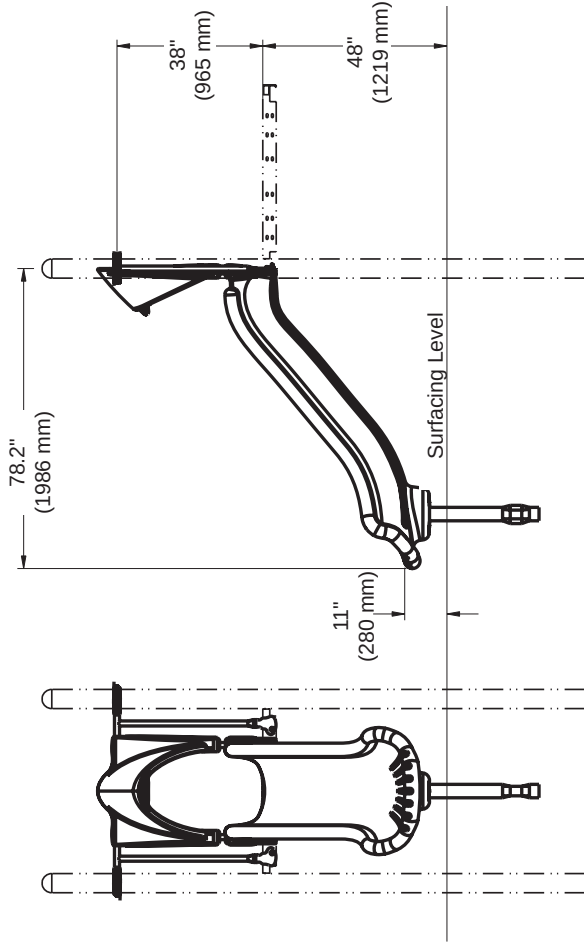
Installation Instructions



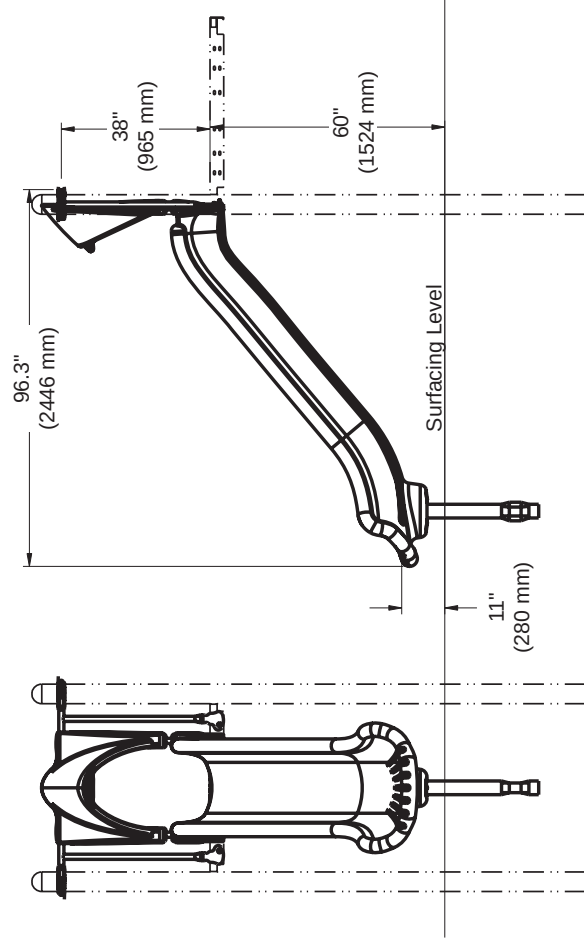
Footing Diagram



Footing Diagram



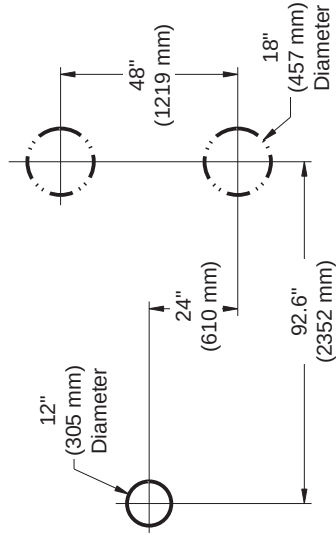
Elevation View PM3126 - 48" Glide Slide



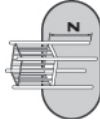
Elevation View PM2658 - 60" Glide Slide



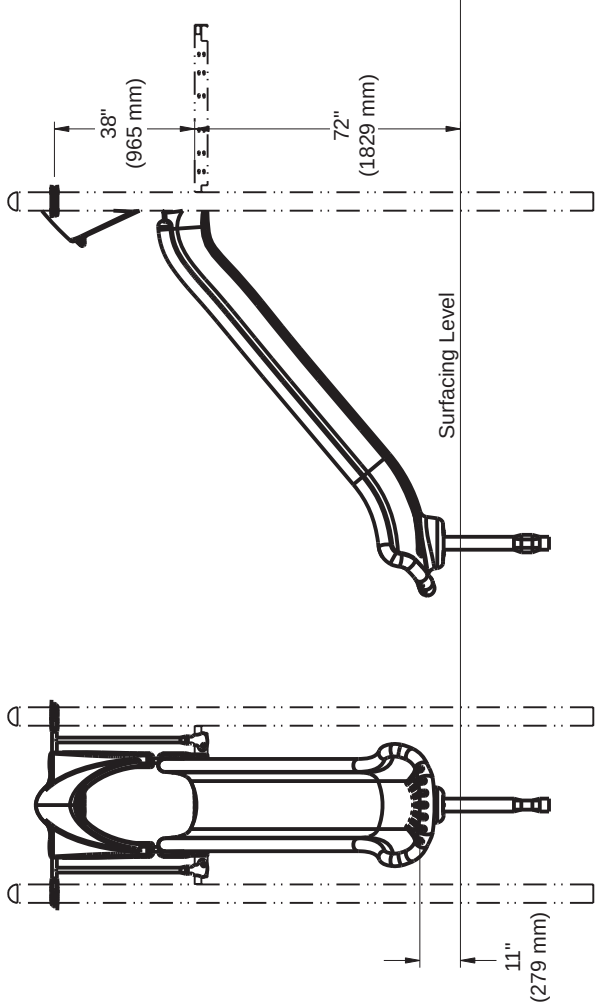
Installation Instructions



Footing Diagram



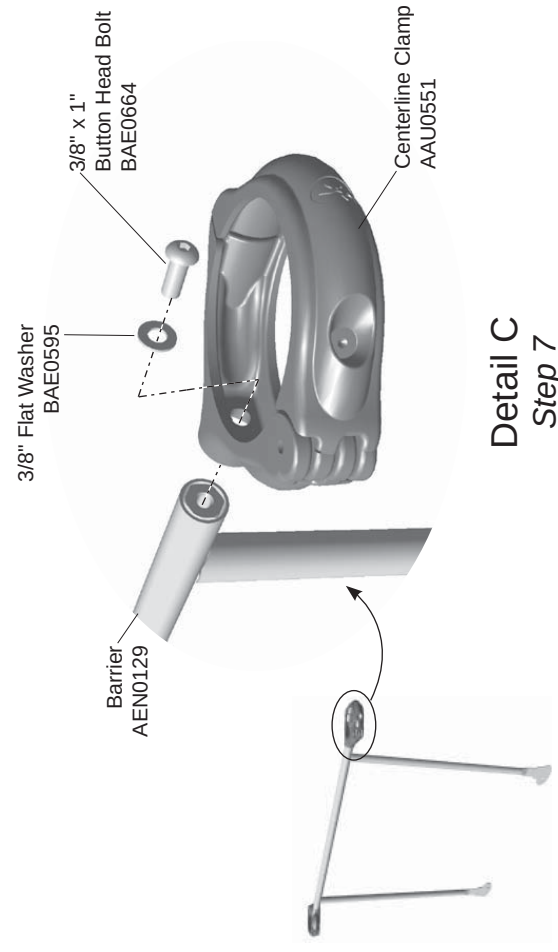
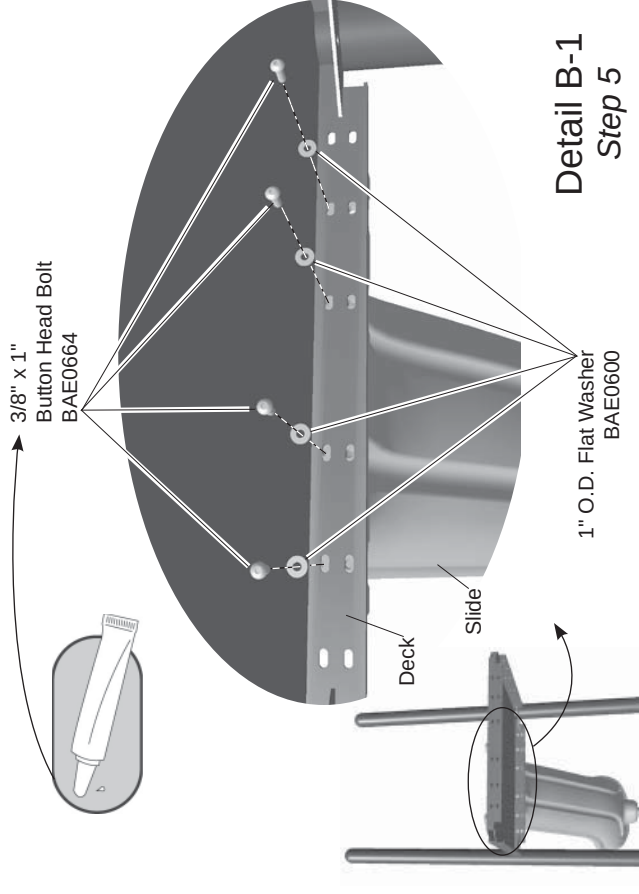
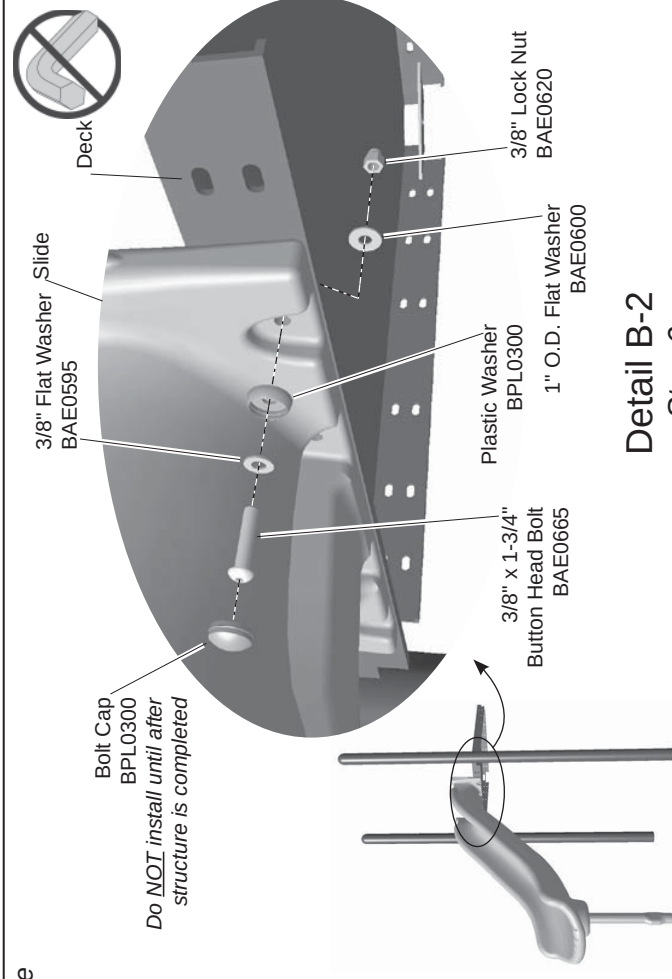
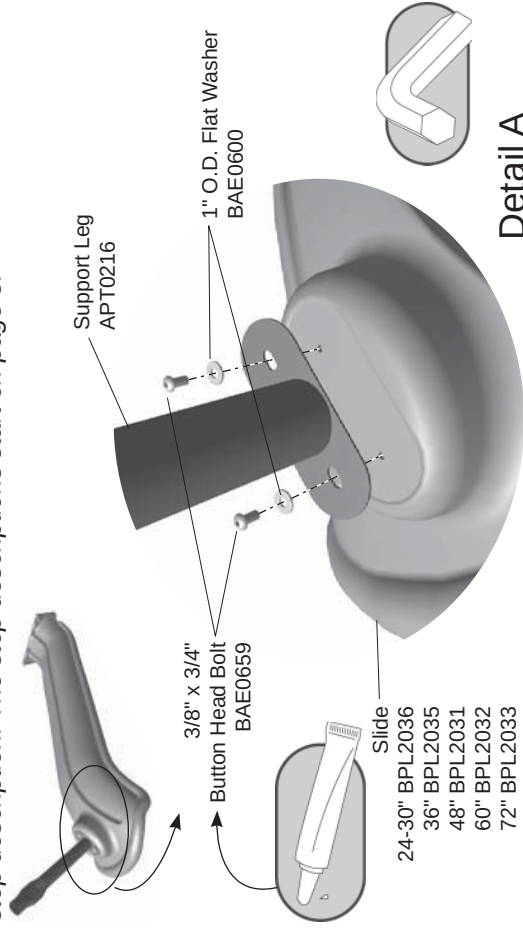
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm



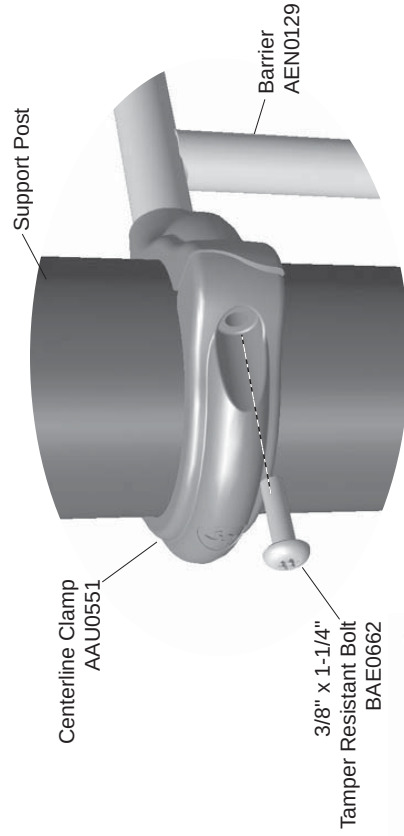
Elevation View PM2696 - 72" Glide Slide

Installation Instructions

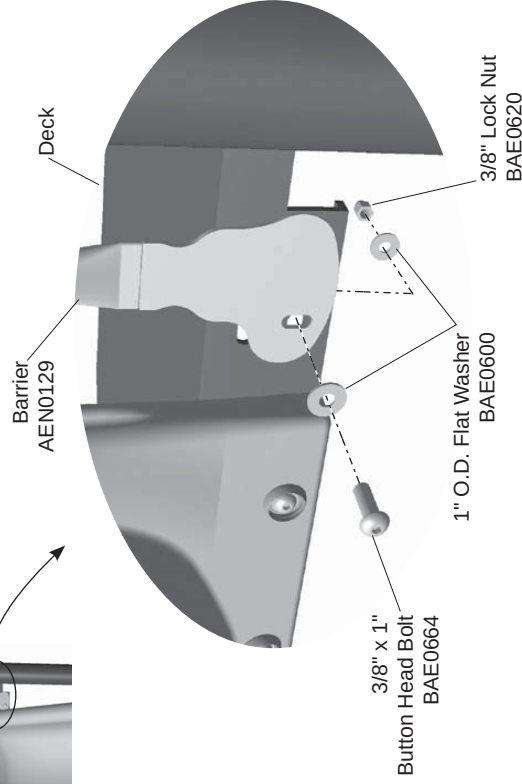
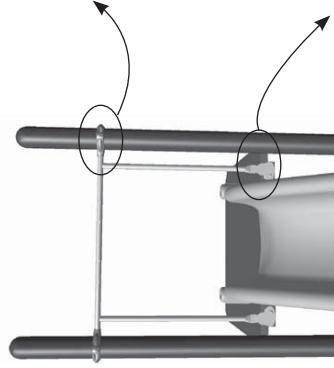
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



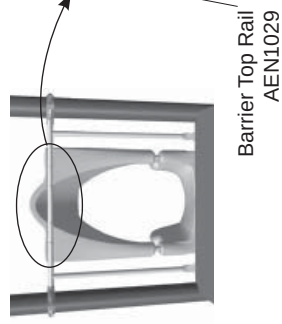
Installation Instructions



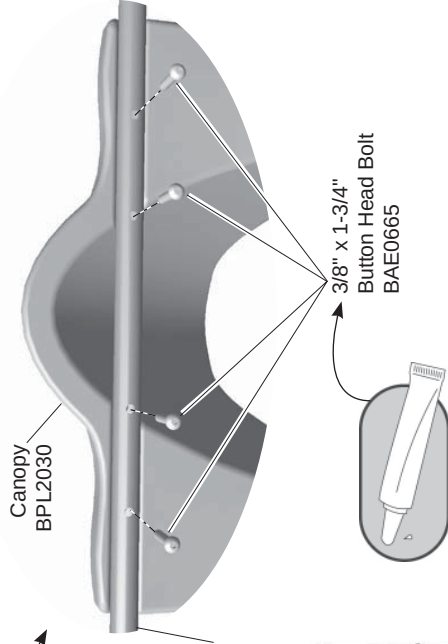
Detail D-1
Step 8



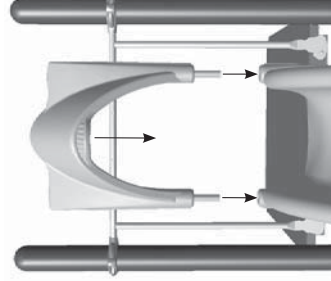
Detail D-2
Step 9



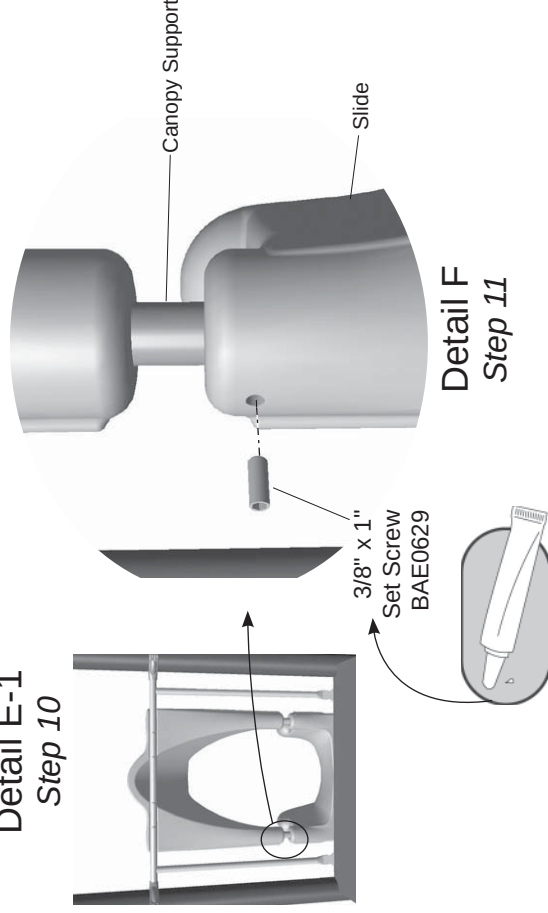
Barrier Top Rail
AEN1029



Detail E-2
Step 10

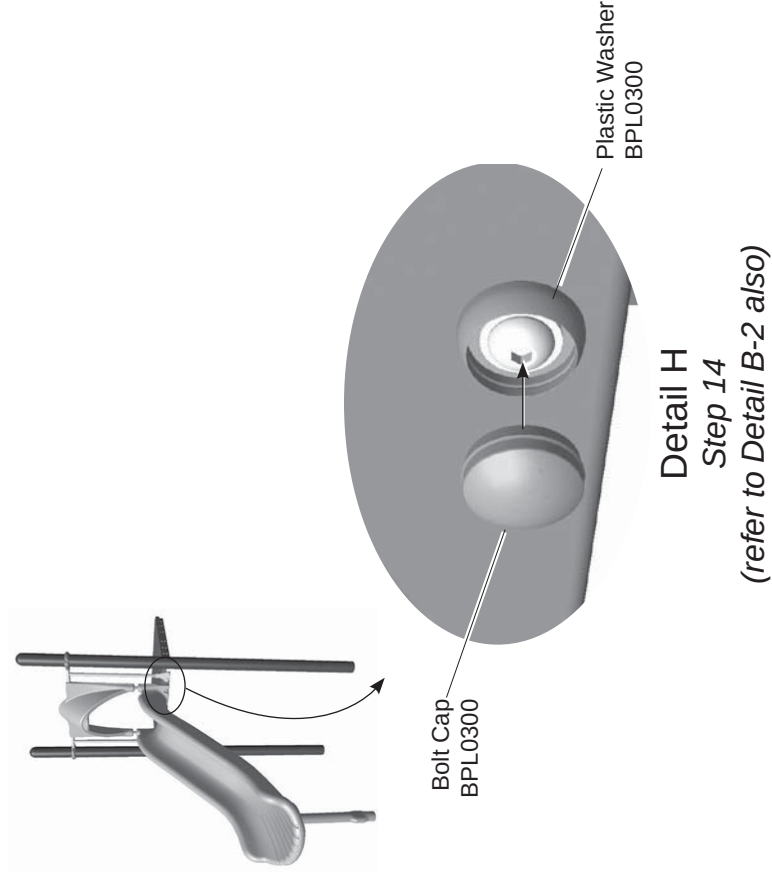


Detail E-1
Step 10

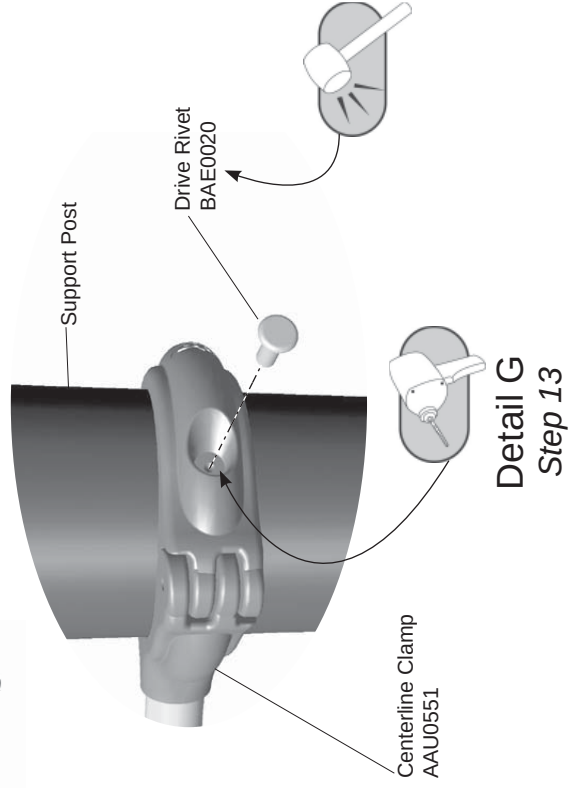
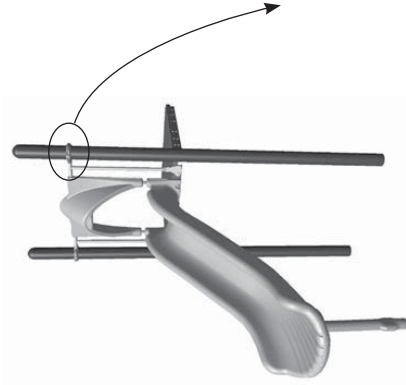


Detail F
Step 11

Installation Instructions



Step 12



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24" -60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

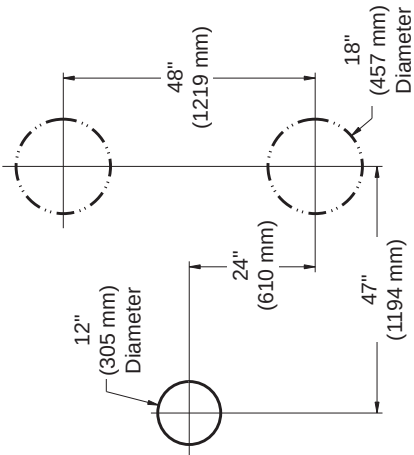


Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

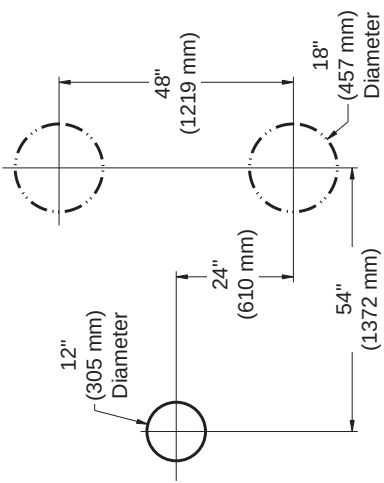
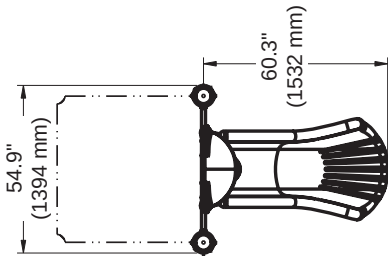
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

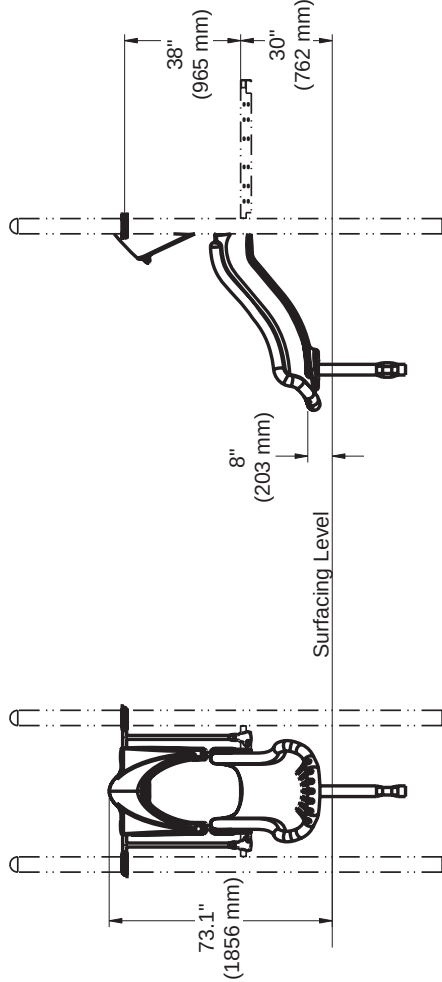
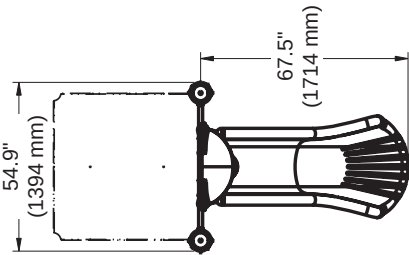


Footing Diagram

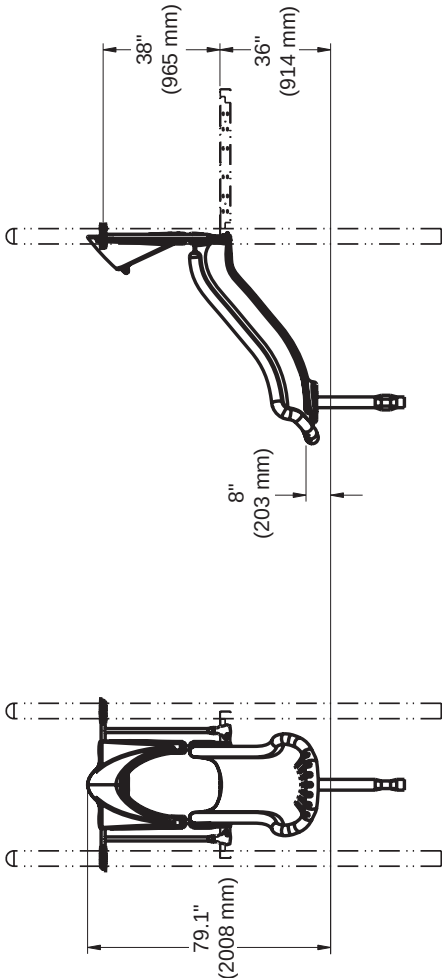
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram



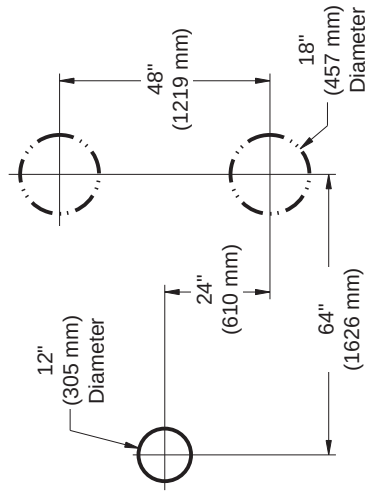
Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)



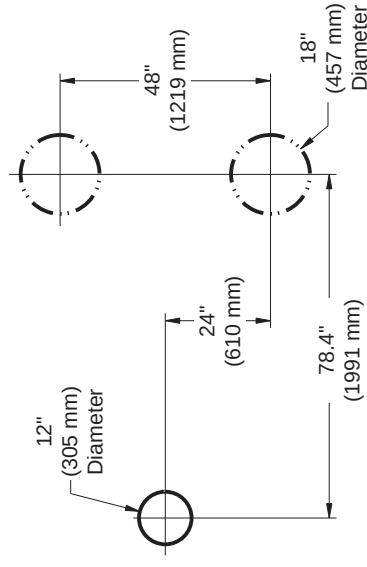
Elevation View PM3127 - 36" Glide Slide



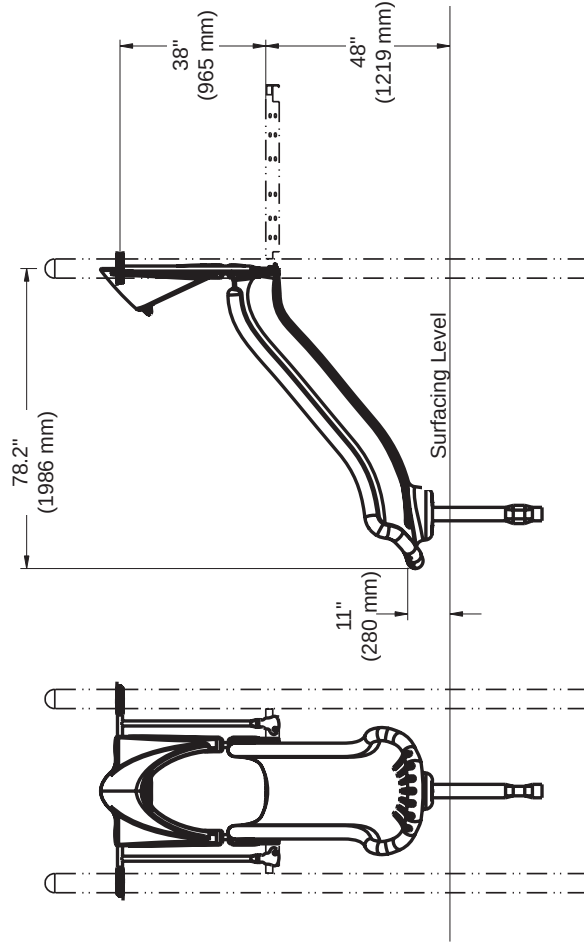
Installation Instructions



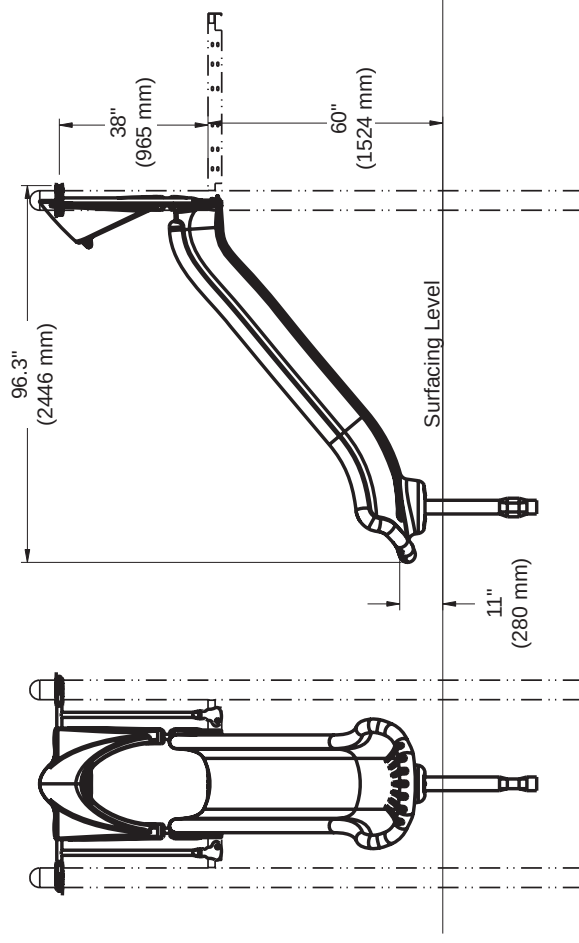
Footing Diagram



Footing Diagram

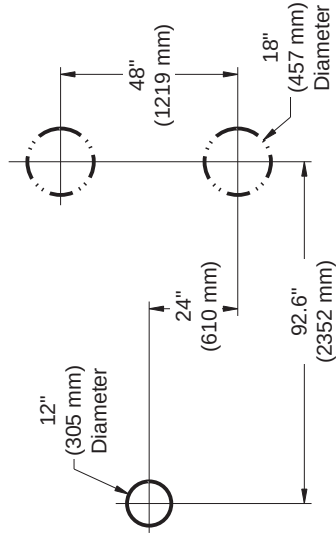


Elevation View PM3126 - 48" Slide

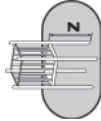


Elevation View PM2658 - 60" Slide

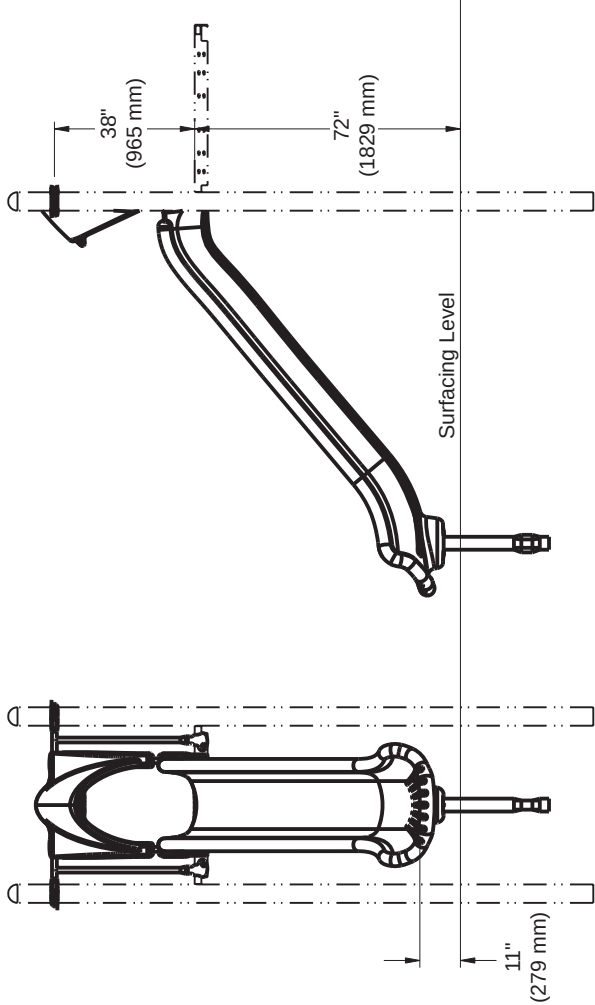
Installation Instructions



Footing Diagram



(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

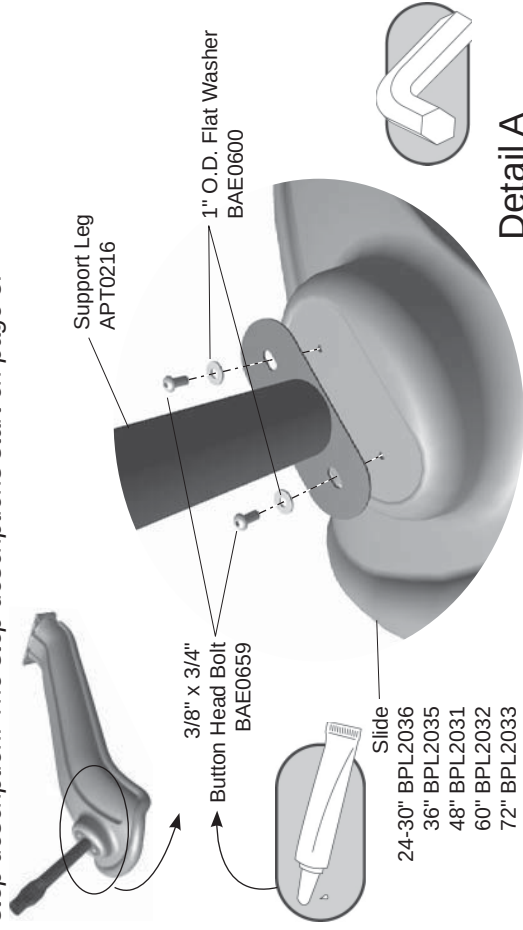


Elevation View PM2696 - 72" Glide Slide

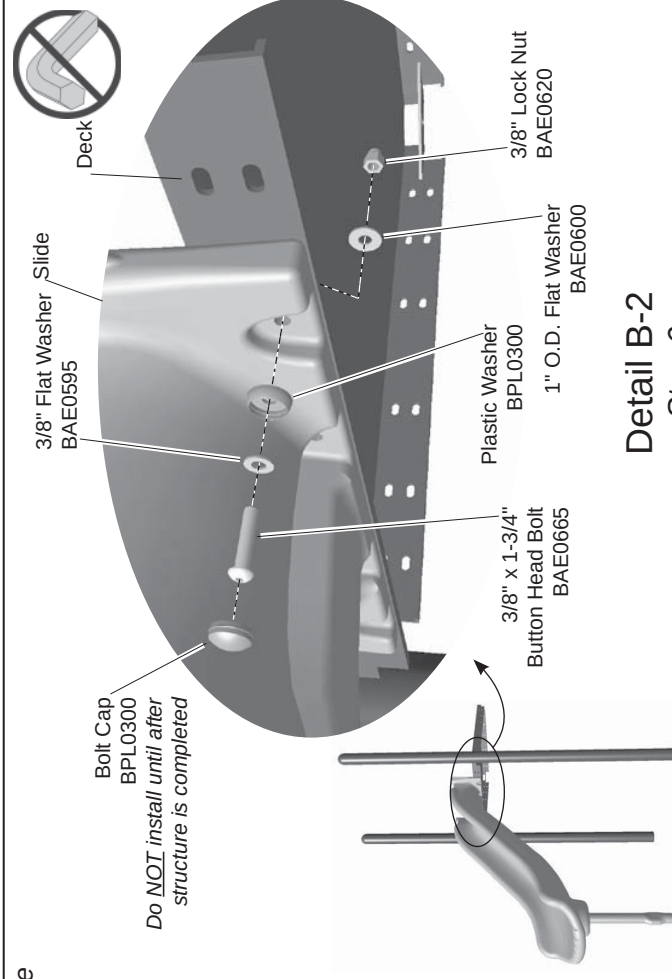


Installation Instructions

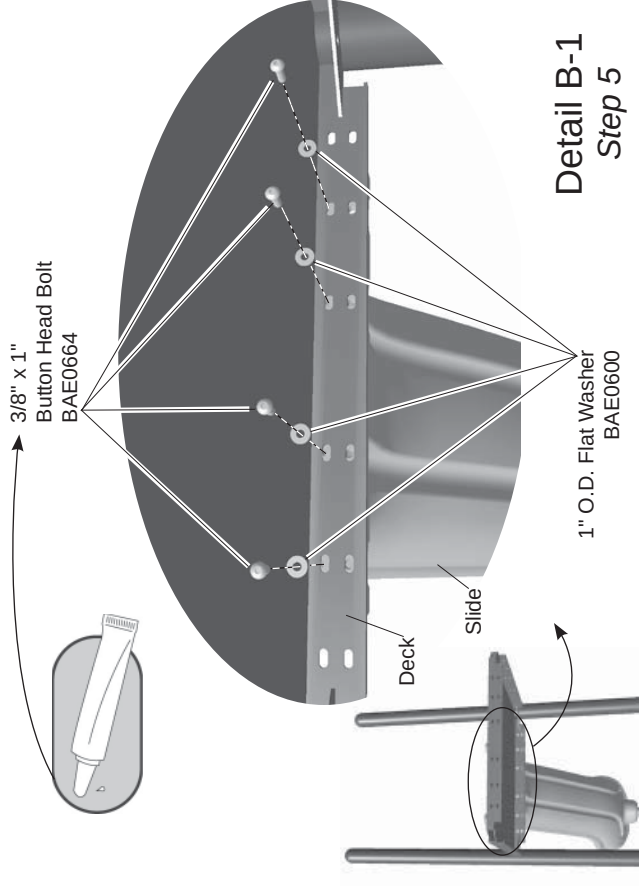
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



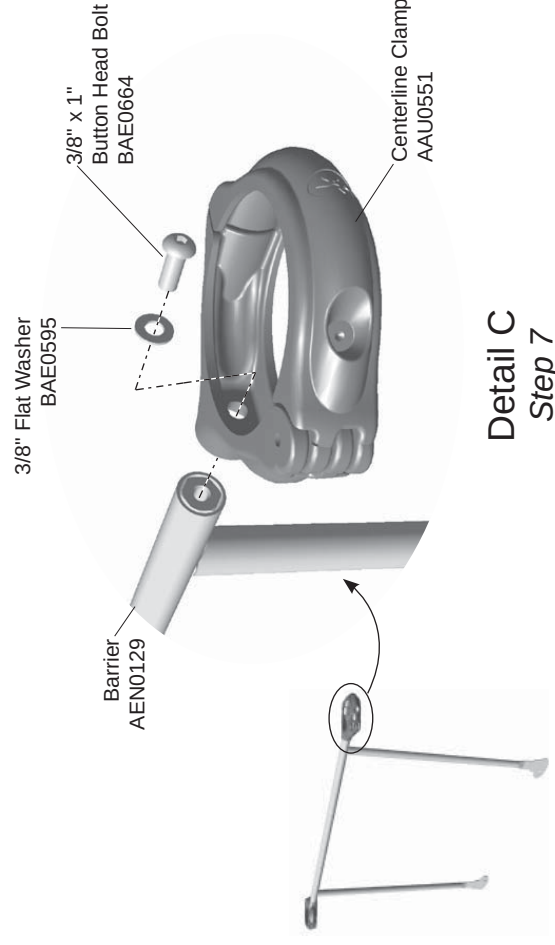
Detail A
Step 4



Detail B-2
Step 6

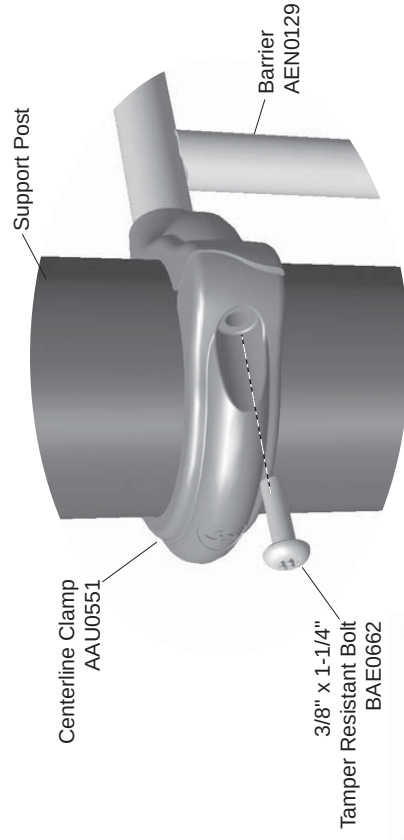


Detail B-1
Step 5

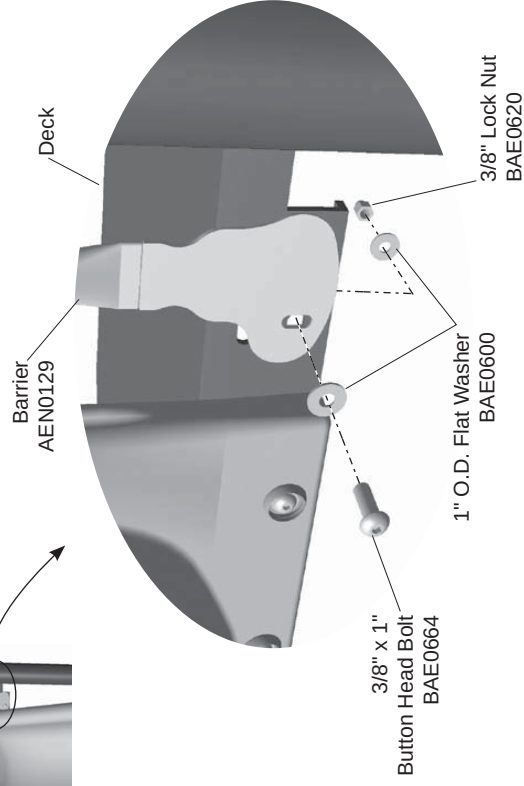
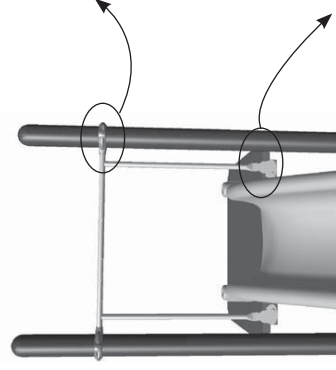


Detail C
Step 7

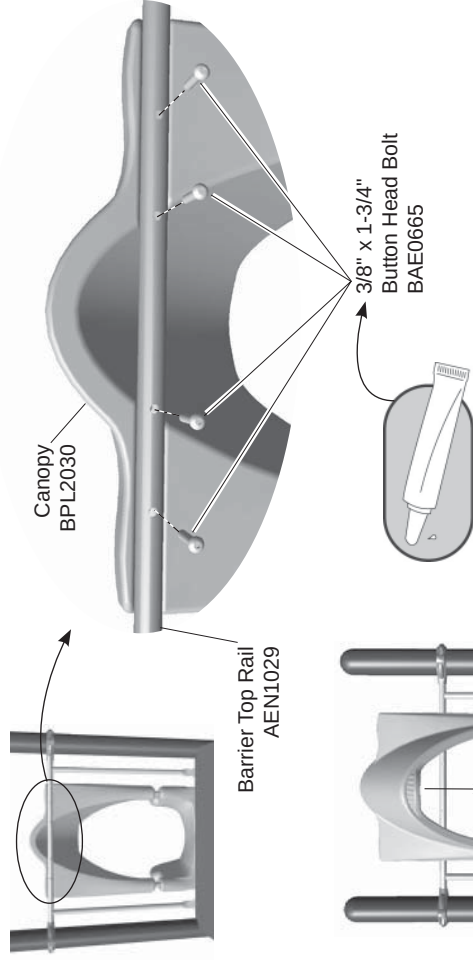
Installation Instructions



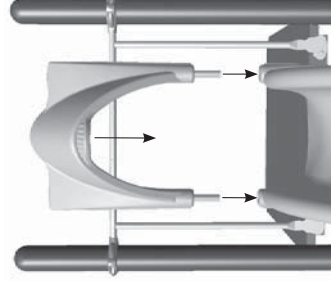
**Detail D-1
Step 8**



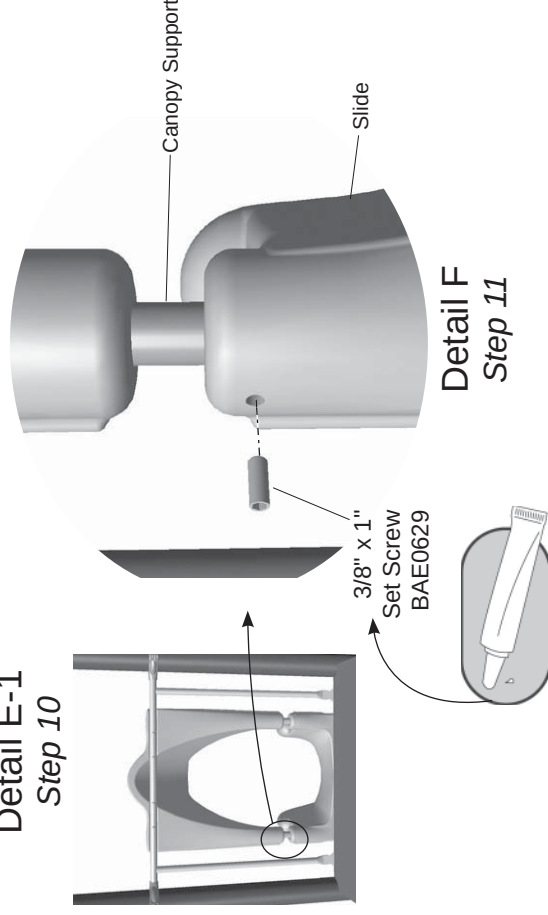
**Detail D-2
Step 9**



**Detail E-2
Step 10**

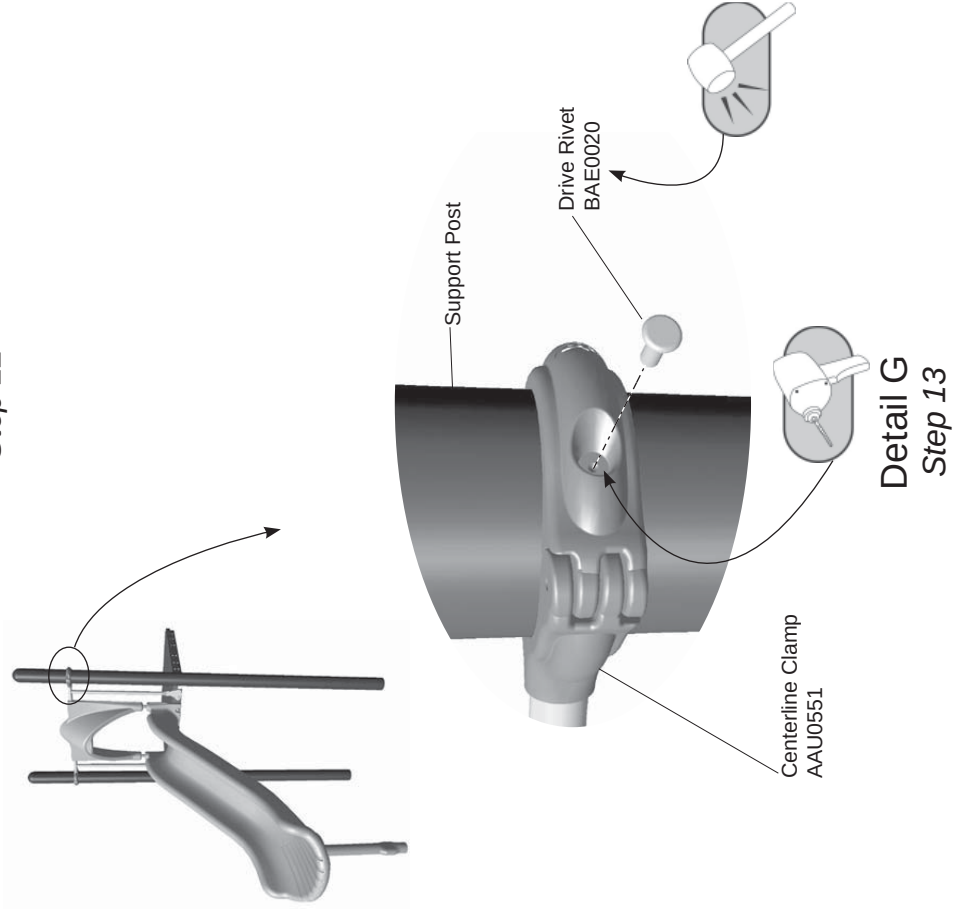
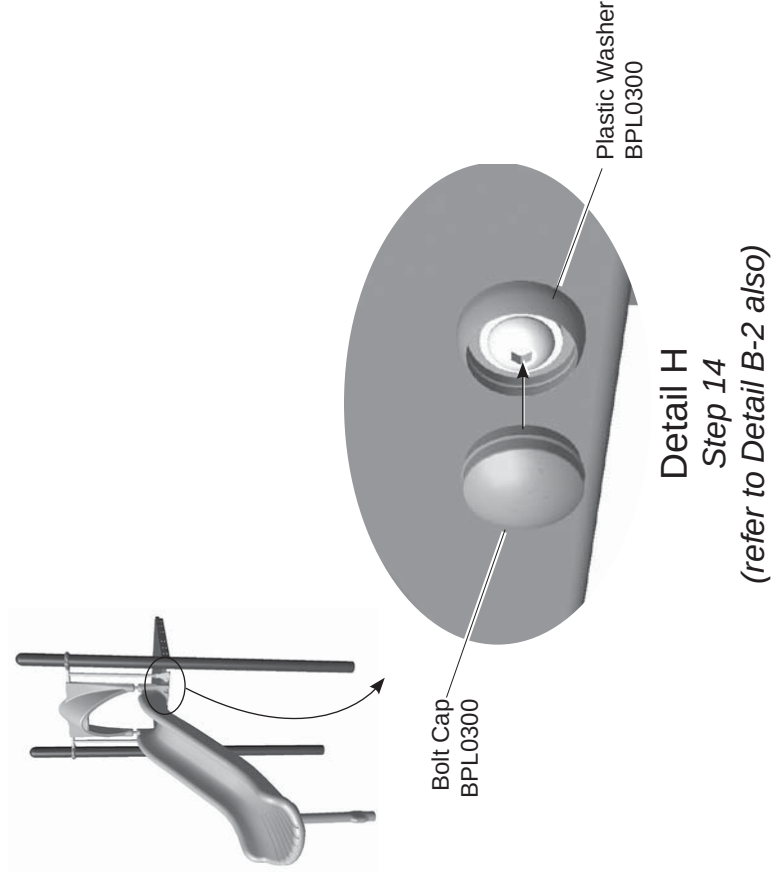


**Detail E-1
Step 10**



**Detail F
Step 11**

Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



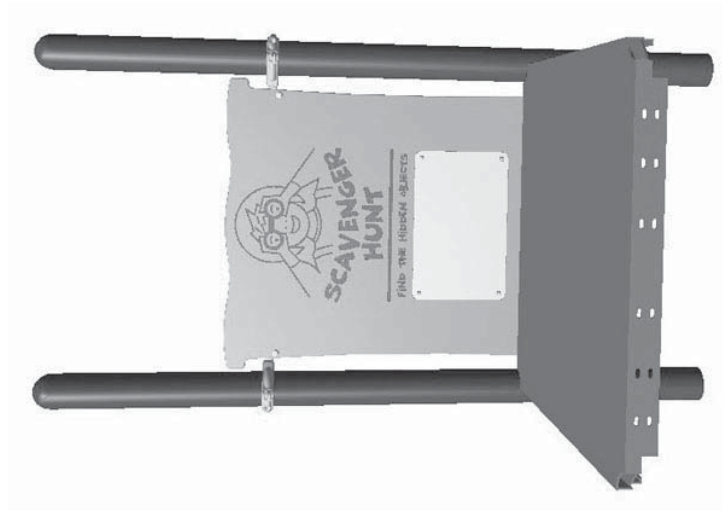
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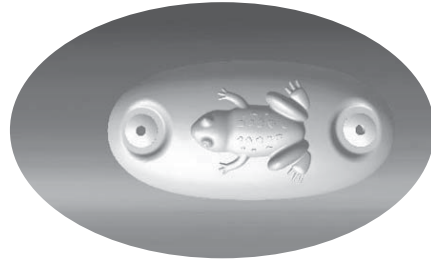
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Assembly View



Frog Button
(example of one
of ten buttons)

Installation Instructions Playmakers® Model PM4546 Scavenger Hunt Deck Level

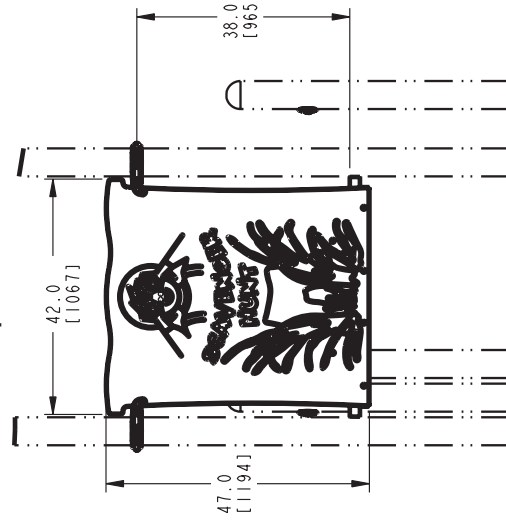
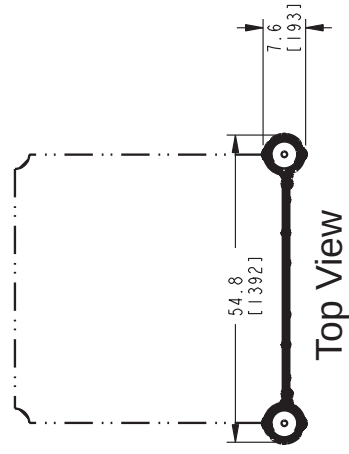
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	*52.8 lbs. (24 kg)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

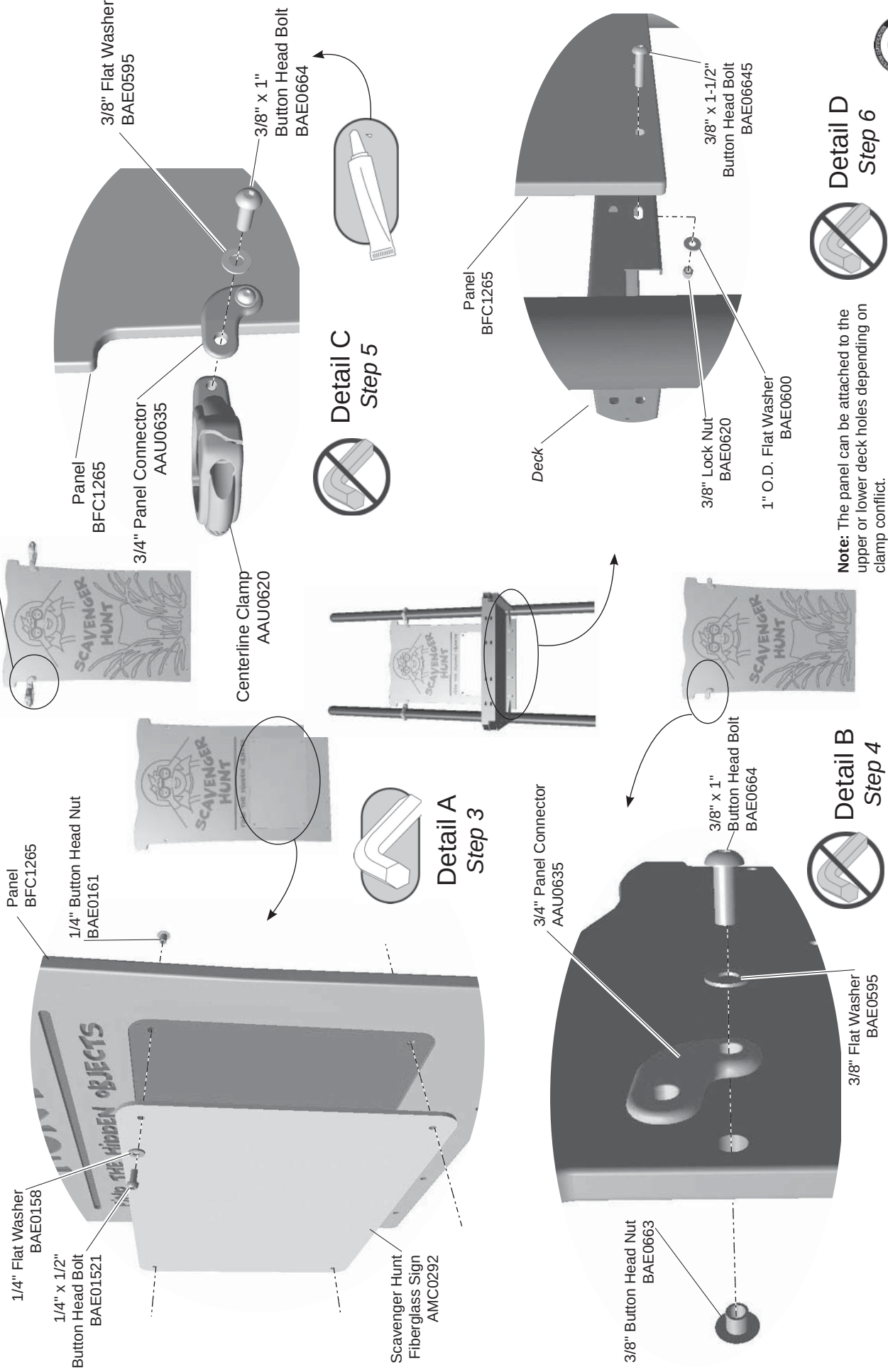
Installation Instructions



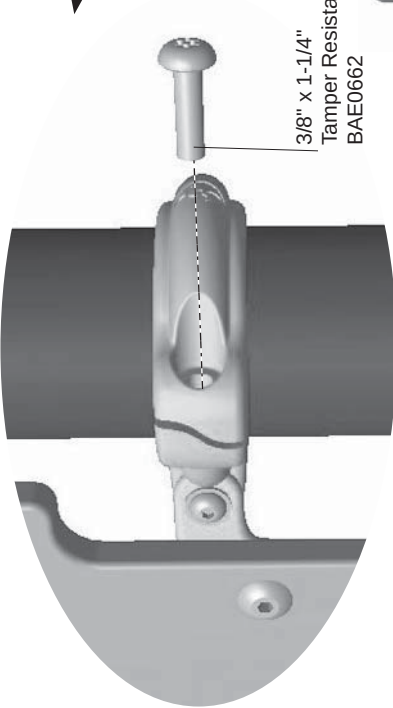
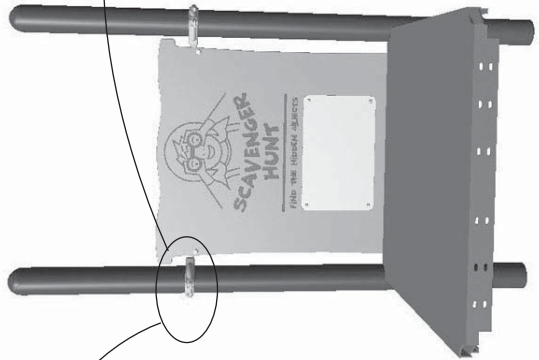
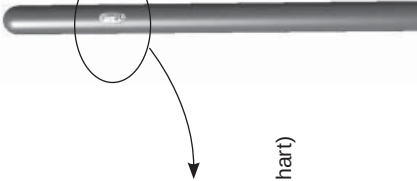
Locate buttons on support posts
as various heights and locations
around the playground.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Detail E
Step 7

3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662

Drive Rivet
BAE0020

Detail F
Step 9

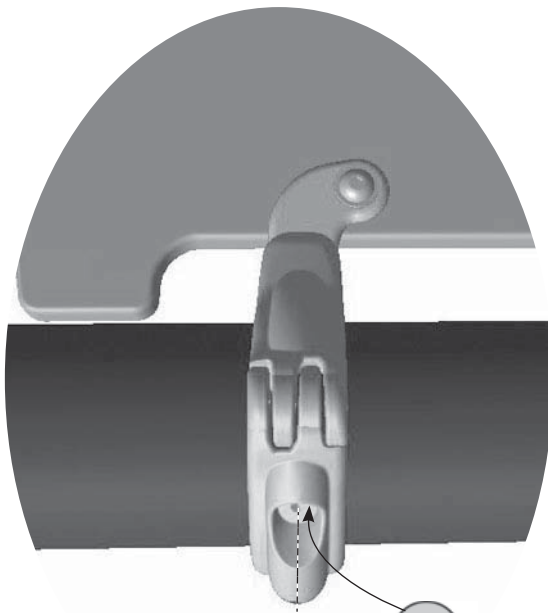
Casting
(refer to chart)

Pop Rivet
BAE0121

Rivet Gun

Shape	Casting Part Number
Butterfly	AAU0641
Flower	AAU0642
Frog	AAU0643
Pickle	AAU0644
Star	AAU0645
Carrot	AAU0646
Apple	AAU0647
Clock	AAU0648
Fish	AAU0649
Smiley Face	AAU0650

Detail G
Step 10



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the fiberglass sign to the panel.

__Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Select the scavenger hunt panel, the fiberglass sign, and the appropriate hardware. There are (4) four connections. Position the fiberglass sign in the cutout section of the panel and attach as shown.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail B**. Select the panel connectors, and the appropriate hardware. There are (2) two connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail C**. Select the clamps and the appropriate hardware. There are (2) two connections. Place the flat side of each clamp against the outside of the panel connector. Attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the deck.

__Step 6: Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Raise the panel into place against the deck and align the holes in the panel with the lower holes in the deck. Attach as shown.

Note: The panel can be attached to the upper or lower deck holes depending on clamp conflict.

Attach the panel to the support posts.

__Step 7: Attach the panel to support posts. See **Detail E** and **Elevation View**. Select the clamps and the appropriate hardware. There are (2) two connections. Move the panel into position on the outside of the posts and close the clamps. Attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Final Details.

__Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Attach the castings to support posts.

__Step 9: Attach the castings to the support posts. See **Detail F**. Select the appropriate hardware. There are (2) two connections per casting, (20) twenty total connections. Choose various locations around the playground to locate the castings. Using a 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

__Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZPM4546 - SCAVENGER HUNT DECK LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AMC0292	SIGN - SCAVENGER HUNT FIBERGLASS	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56 ALUM POP (.251" - .375" GRIP RANGE)	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1265	SHEET - 42.00" x 47.00" SCAVENGER HUNT	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

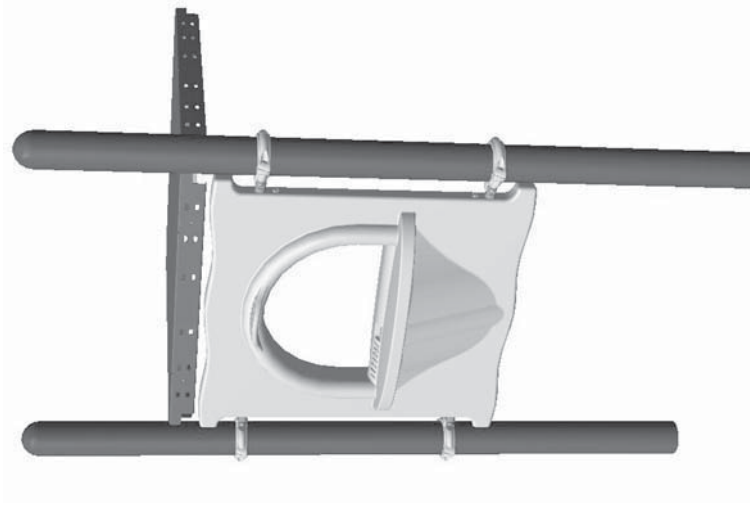


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Assembly View

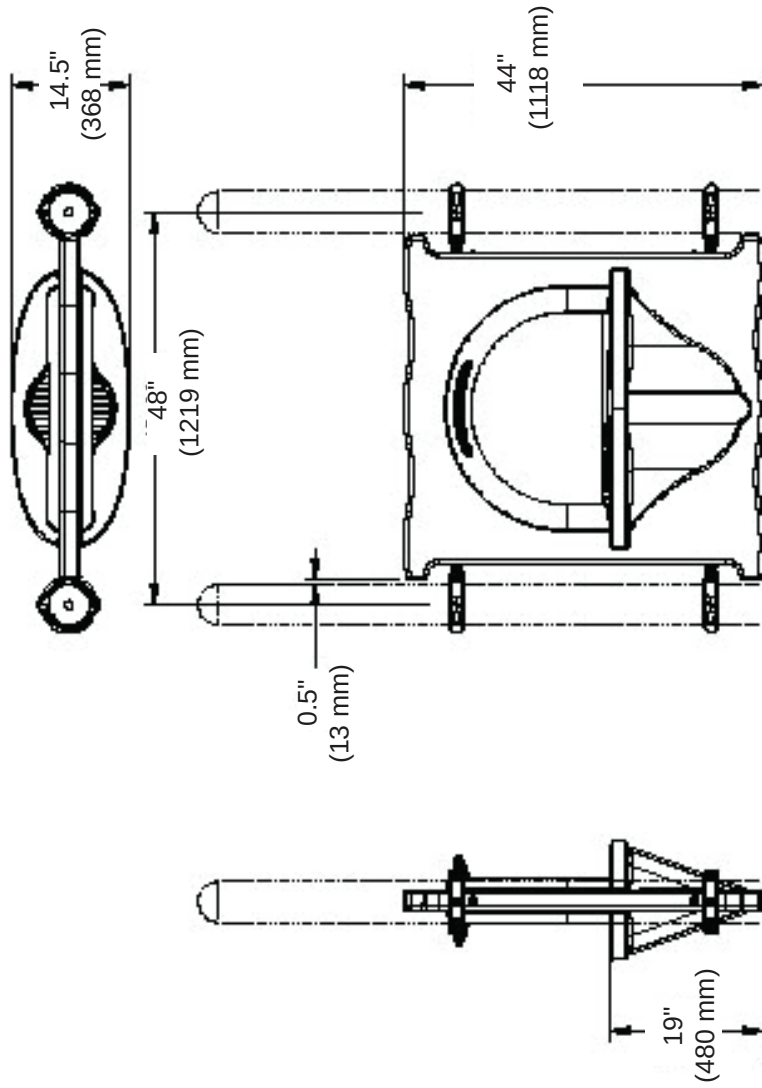
Installation Instructions Playmakers® Model PM4646 Storefront Panel

Installation Preparation

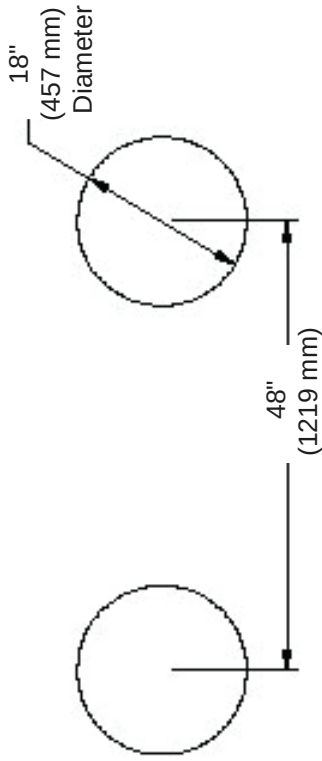
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 44.8 lbs. (20.2 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Drill
	Hammer	Critical Fall Height

Top View



Footing Diagram

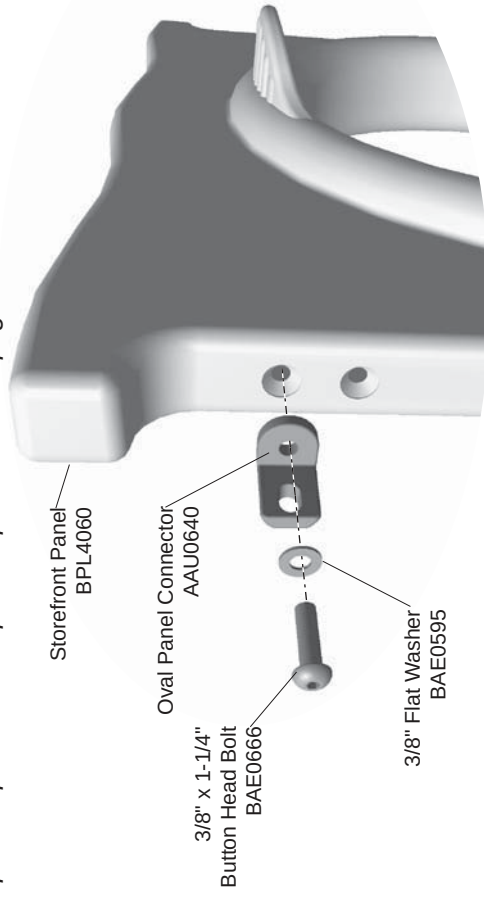


Elevation Views

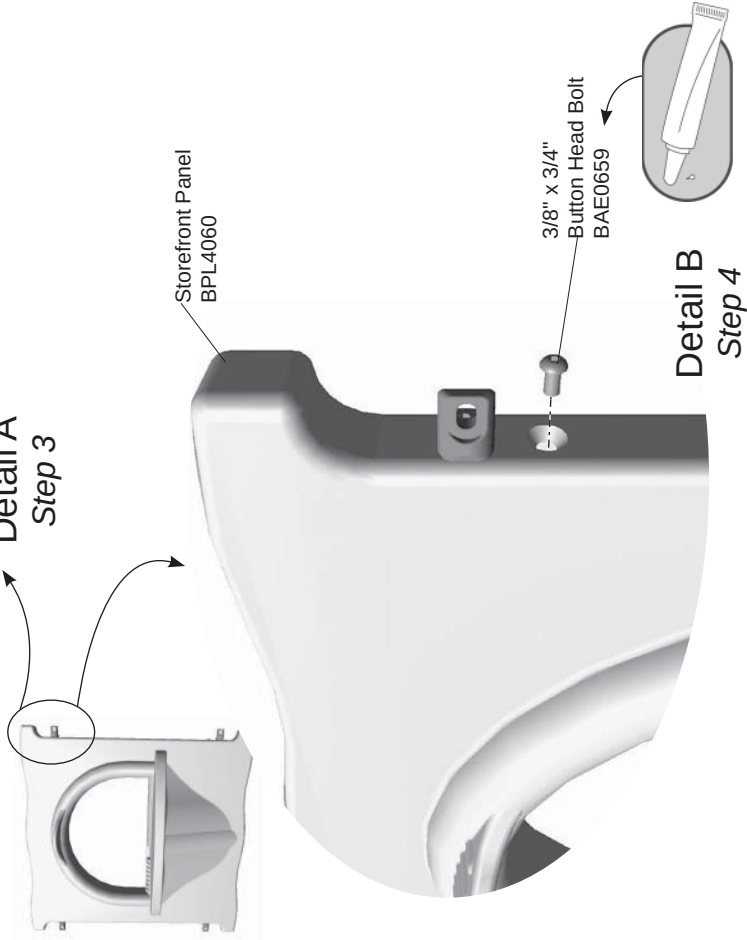


Installation Instructions

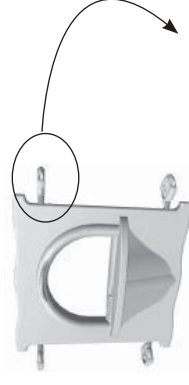
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3



Detail B
Step 4



Storefront Panel
BPL4060

Oval Panel Connector
AAU0640

Offset Centerline
Die Cast Clamp
AAU0620

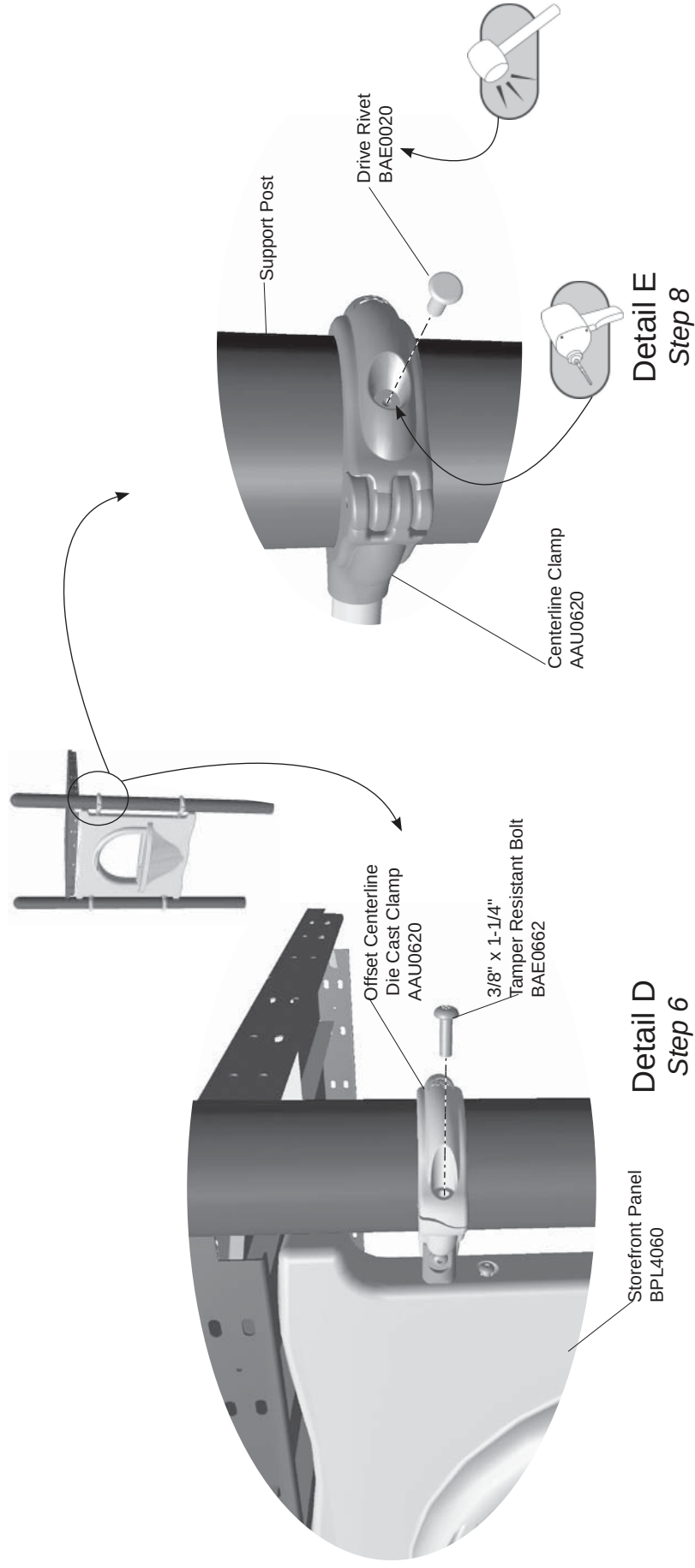
3/8" Flat Washer
BAE0595

3/8" x 1"
Button Head Bolt
BAE0664

Detail C
Step 5



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

__Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

__Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

__Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

__Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1

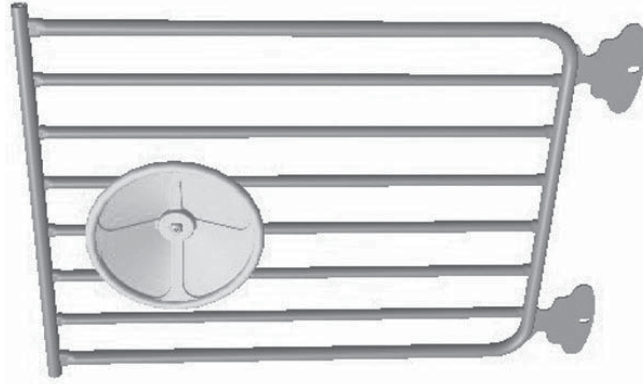
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Model PM4646
PA 768



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Assembly View (representative model)

Model	Description	*Weight
ZZUN4299	CH/EX for 4" Centers	5.3 lbs. (2,4 kg)
ZZUN4300	PM for 4" Centers	5.3 lbs. (2,4 kg)
ZZUN4307	CH/EX for 3.75" Centers	5.3 lbs. (2,4 kg)

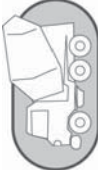
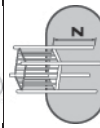
*Weights are approximate for determining manpower.

Installation Instructions Universal Models UN4299, UN4300, & UN4307 Steering Wheel Pipe Wall Mount

Installation Preparation

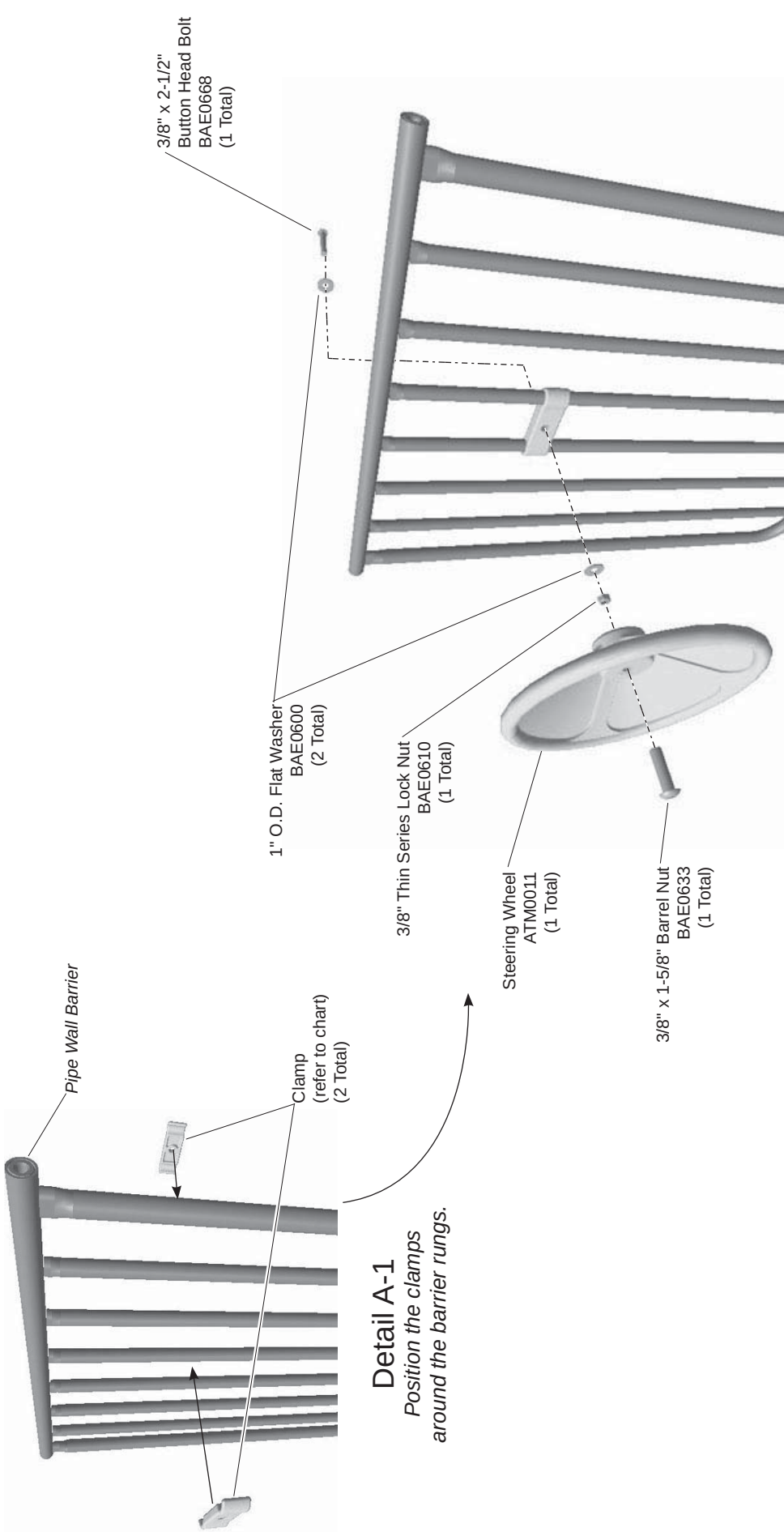
Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Weight: (refer to table)
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



Model	Clamp Part Number
ZZUN4299	AAU0043
ZZUN4300	AAU0380
ZZUN4307	AAU0046



Details A-1 and A-2

Step 3

Attach the steering wheel to the barrier.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the steering wheel to the pipe wall barrier.

Step 3: See **Details A-1 and A-2**. Place the steering wheel clamps around the bars on the pipe wall barrier. Working from the outside of the pipe wall barrier, insert a bolt through a flat washer, both clamps, another flat washer, and thread on a thin series lock nut. Move the clamps to the appropriate height for the intended user, and fully tighten the nut to hold the clamps in place. Insert the barrel nut into the steering wheel and thread the barrel nut / steering wheel assembly onto the bolt.

Final Details.

Step 4: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. The steering wheel should still turn freely.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN4299 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

UN4300 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (PM)

PART NO.	DESCRIPTION	QTY.
AAU0380	CLAMP - STEERING WHEEL	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

UN4307 - STEERING WHEEL PIPE WALL MOUNT 3.75 in. RUNG CENTERS (CH/EX)

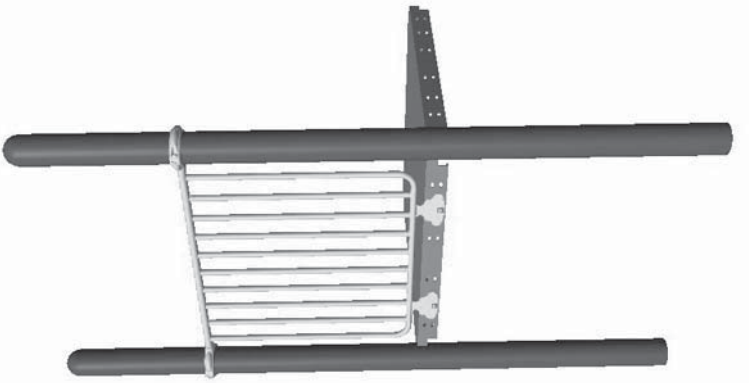
PART NO.	DESCRIPTION	QTY.
AAU0046	CLAMP - STEERING WHEEL FOR 3-3/4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1



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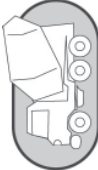
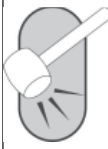
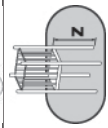


Assembly View

Installation Instructions Playmakers® Model PM4090 Centerline Pipe Wall Barrier

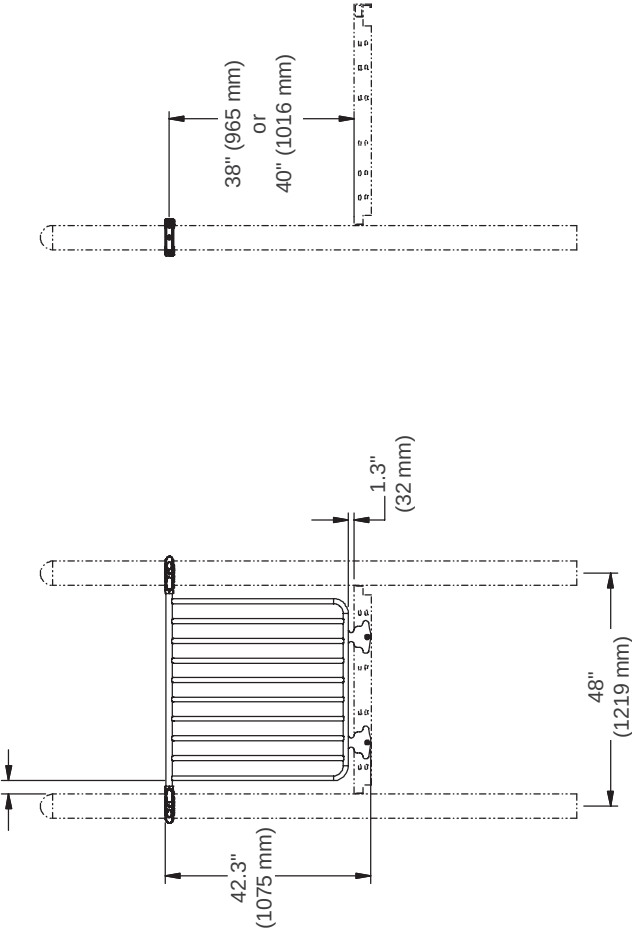
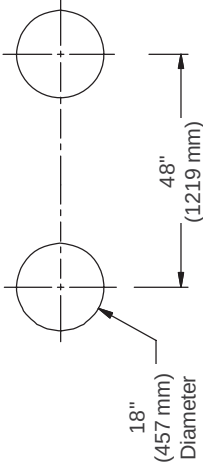
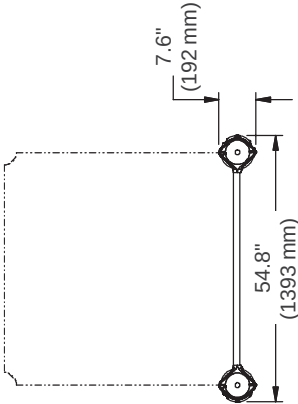
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 installation-hours
 Weight: 43 lbs. (19,4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

Top View



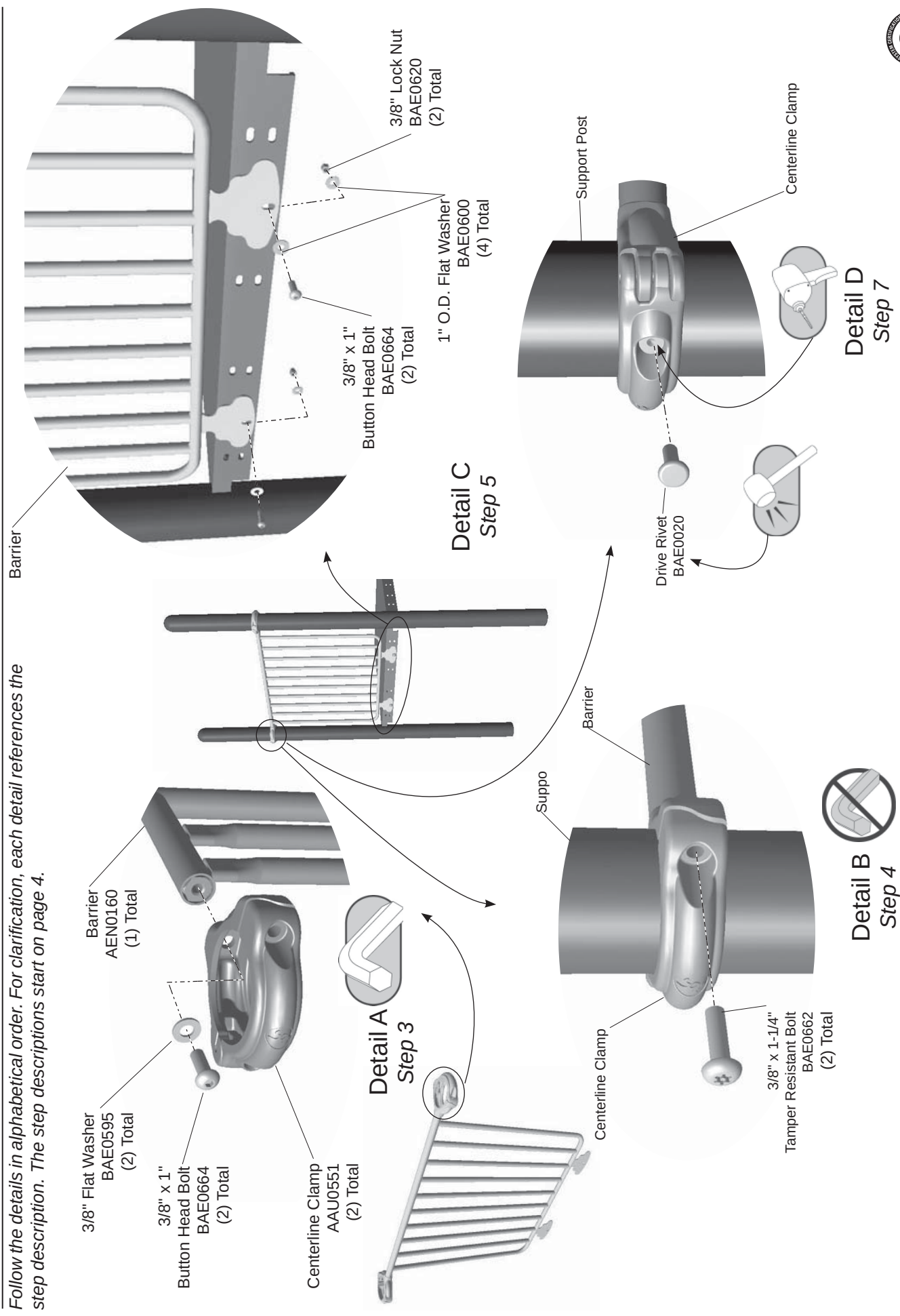
Footprint Diagram

Elevation View



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach a shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

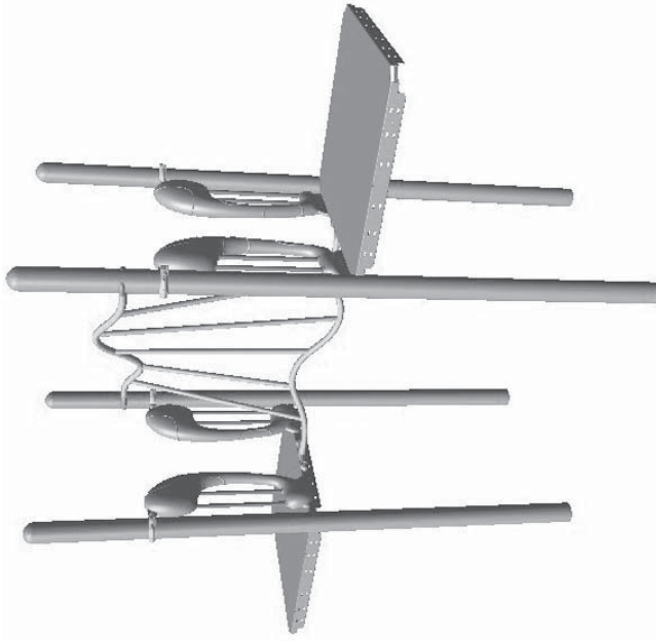
PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2

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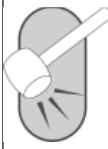
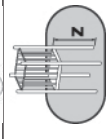
Installation Instructions Playmakers® Model PM6956 Nuvo™ Swerve Climber



Assembly View

Installation Preparation

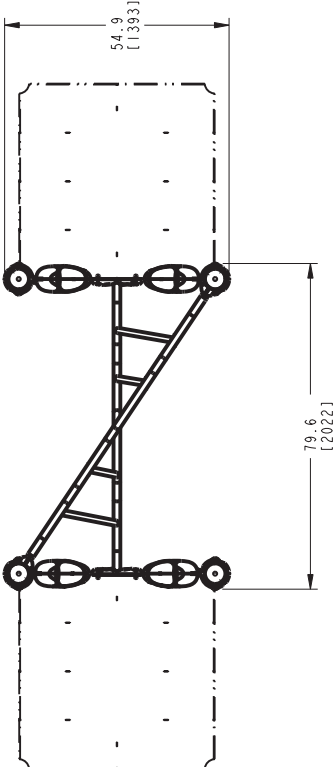
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

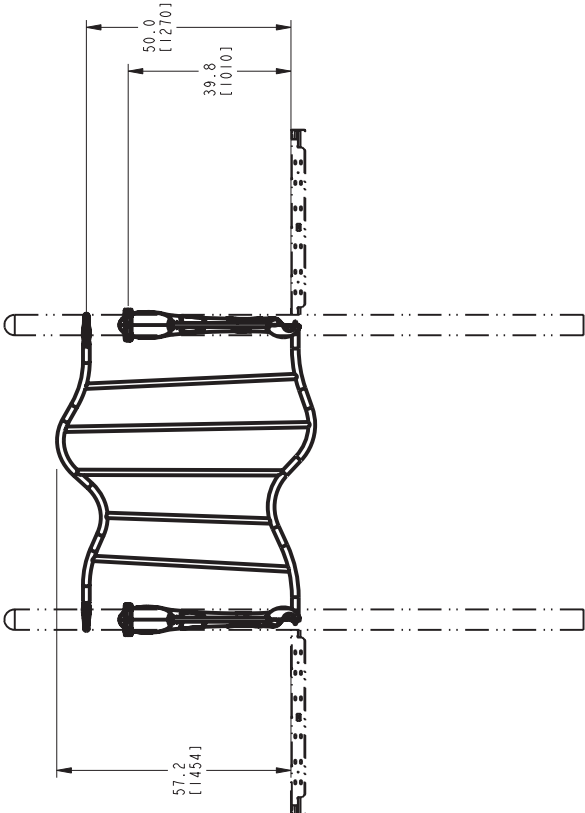
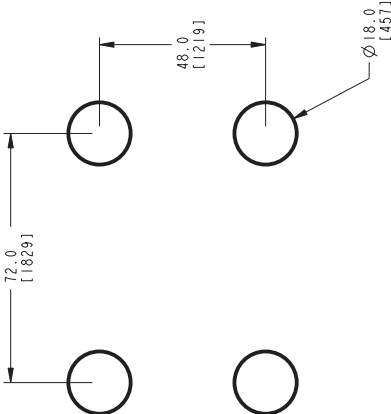
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

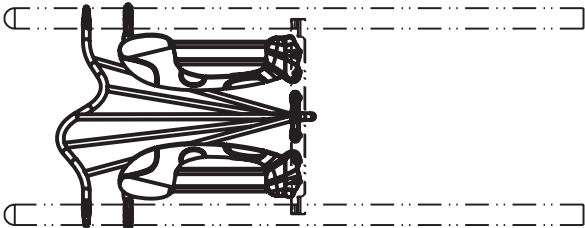
Top View



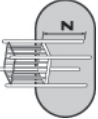
Footing Diagram



Elevation Views

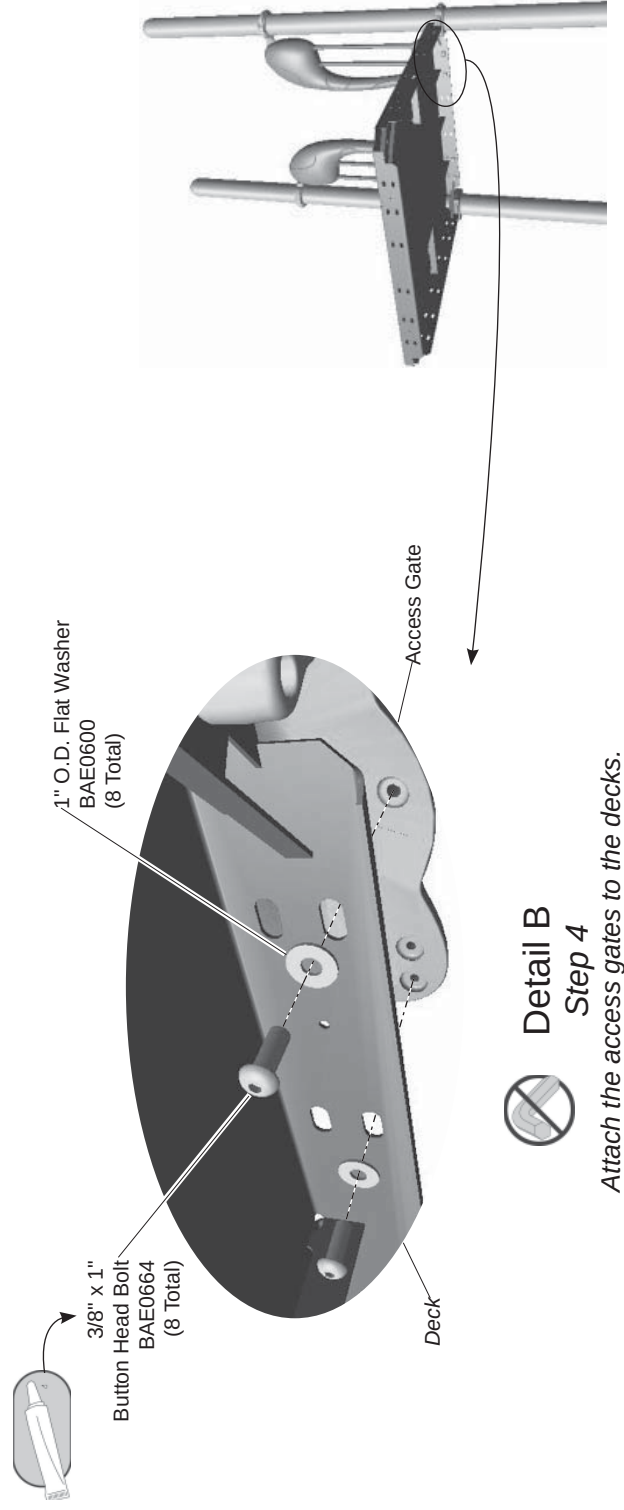
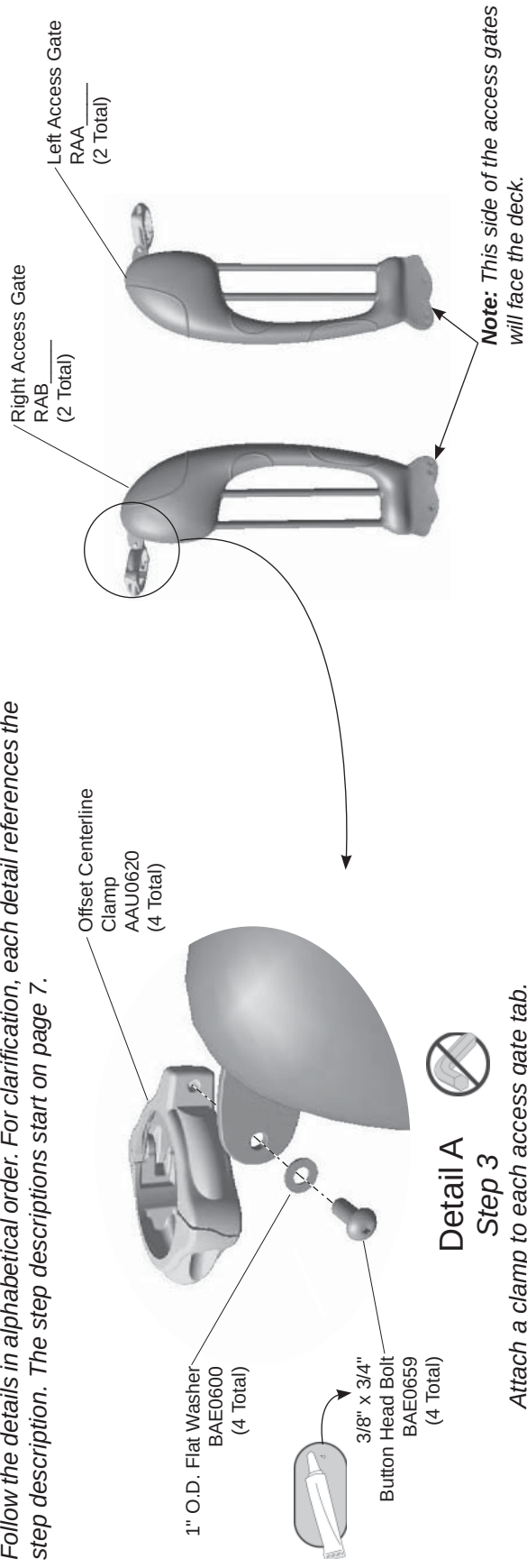


Equal to the height of the
deck + 5" (127 mm)

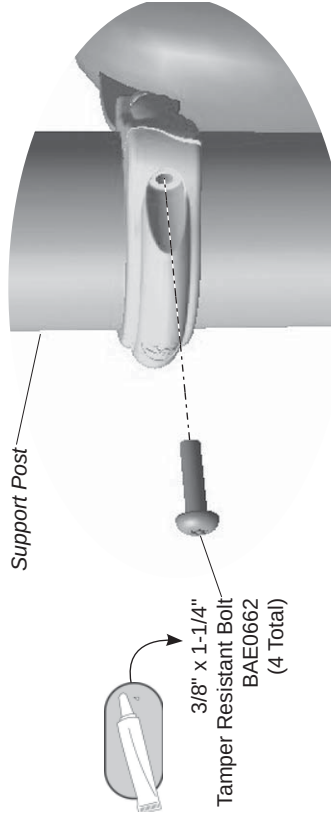


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

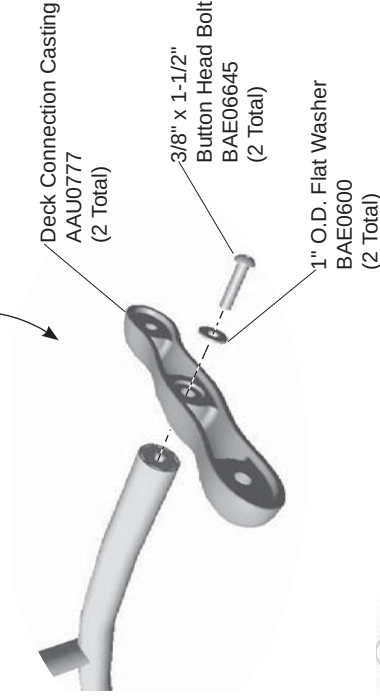
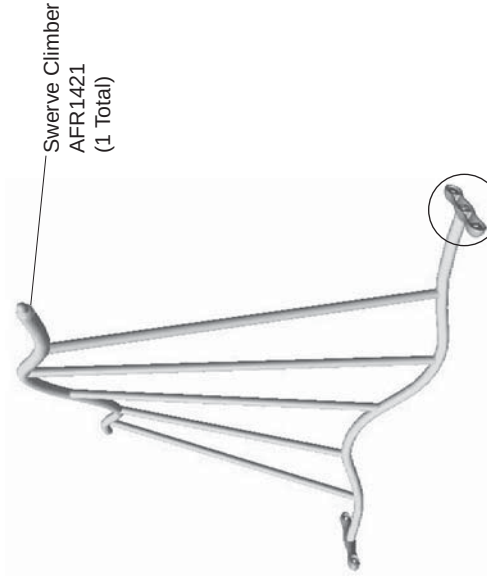
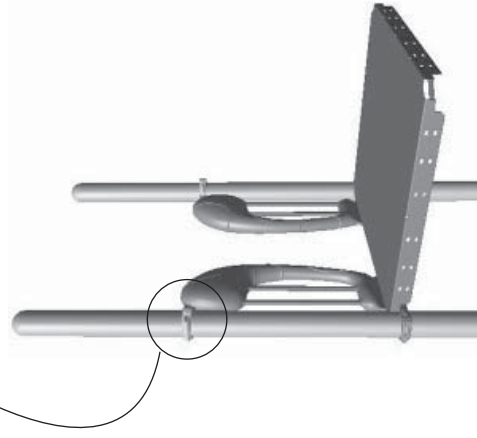


Installation Instructions



Detail C
Step 5

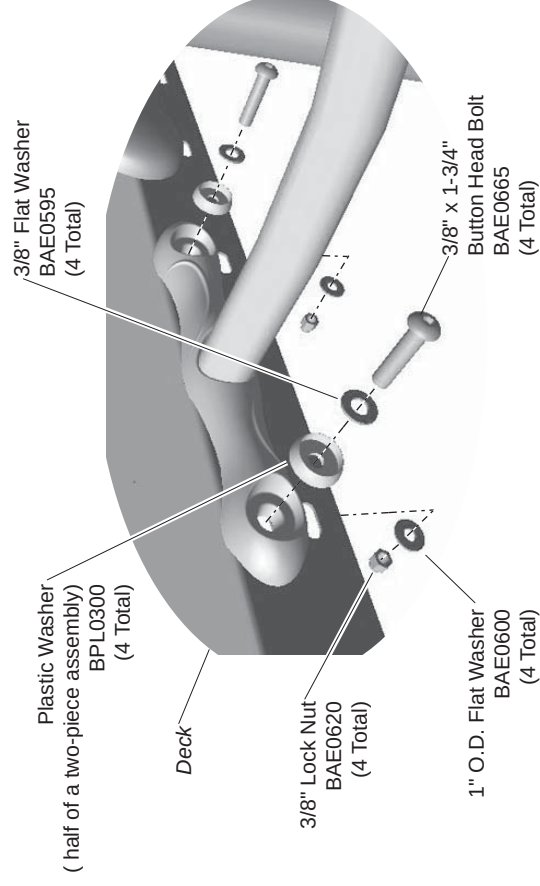
Attach the access gates to the support posts.



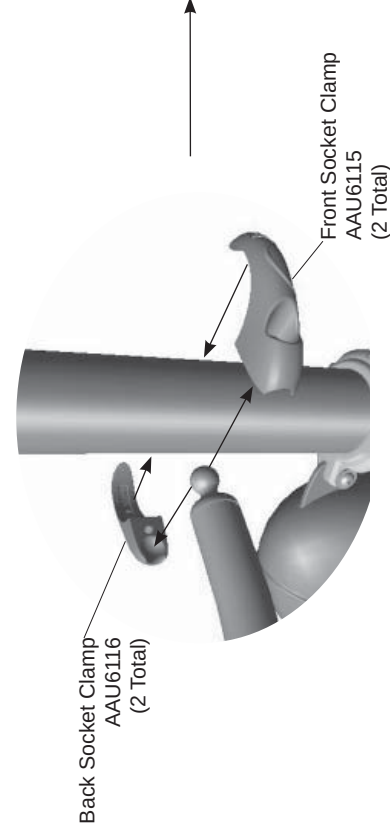
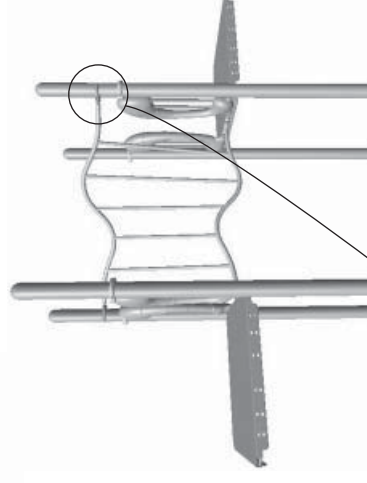
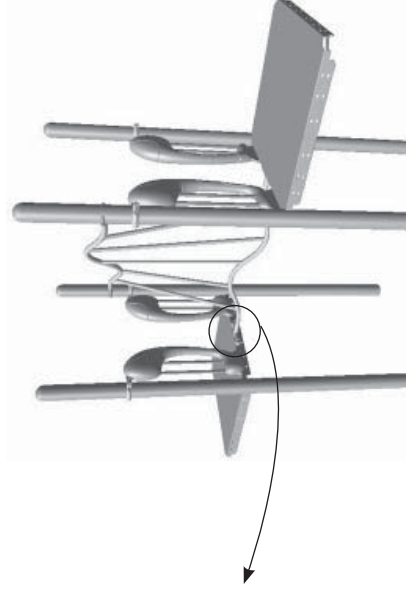
Detail D
Step 6

Attach the deck connection castings to the climber.

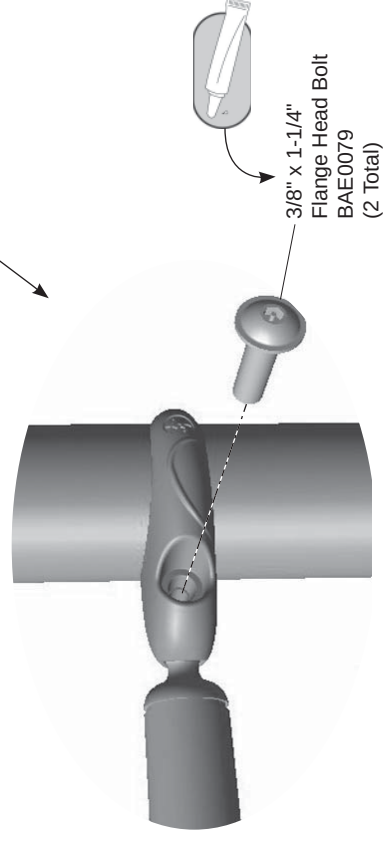
Installation Instructions



Detail E
Step 7
Attach the climber to the decks.

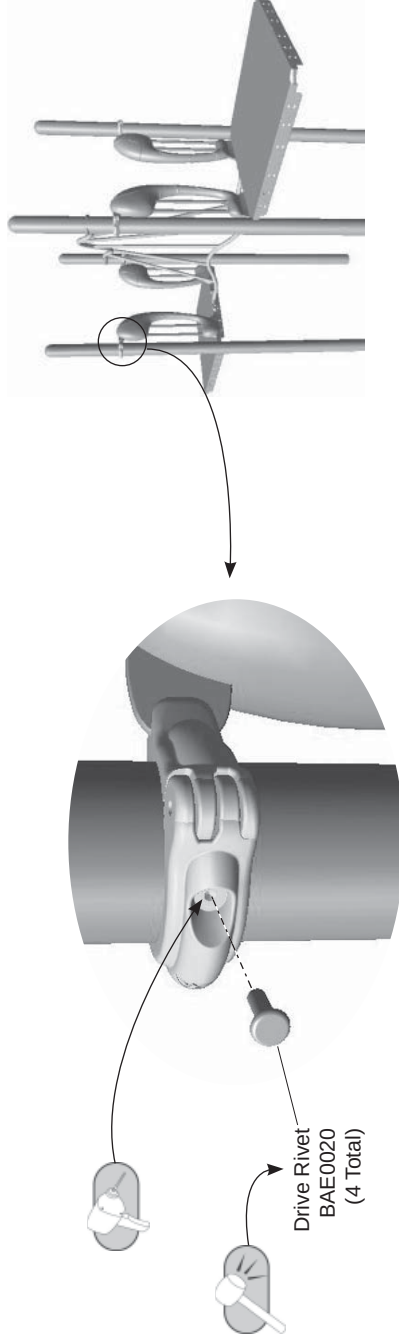


Detail F
Step 8
Attach the climber to the support posts.



Attach the climber to the support posts.

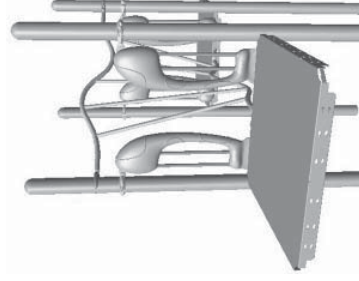
Installation Instructions



Detail G-1

Step 10

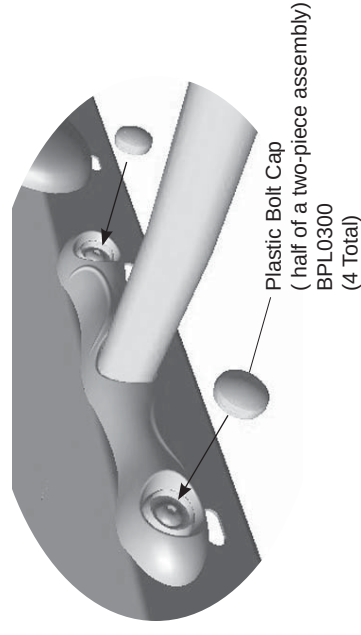
Secure the centerline clamp to the support post.



Detail G-2

Step 10

Secure the back socket clamp to the support post.



Detail H

Step 11

Press the bolt caps into the plastic washers (deck connection castings).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces away from the deck.

Step 4: Attach the access gates to the decks. See **Detail B**. Position an access gate against a deck with the clamp closed around the support post, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Gate may be attached to the upper holes or the lower holes in the deck.

Step 5: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 6: Attach the deck connection castings to the climber. See **Detail D**. Position a casting against each end of the climber bottom rail and attach as shown.

Step 7: Attach the climber to the decks. See **Detail E**. With adequate manpower, position the climber between the decks and attach the bottom of the climber to the decks as shown.

Step 8: Attach the climber to the support posts. See **Detail F**. Position a front and a back socket clamp against a support post and over the ball on the end of the climber top rail, apply a drop of thread locking adhesive to the bolt thread, and attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Details G-1 and G-2**. After the equipment assembly is complete, install a drive rivet in each centerline clamp and back socket clamp to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 11: Select plastic bolt caps and press into the plastic washers. See **Detail H**. The bolt caps install more easily when they are warm.

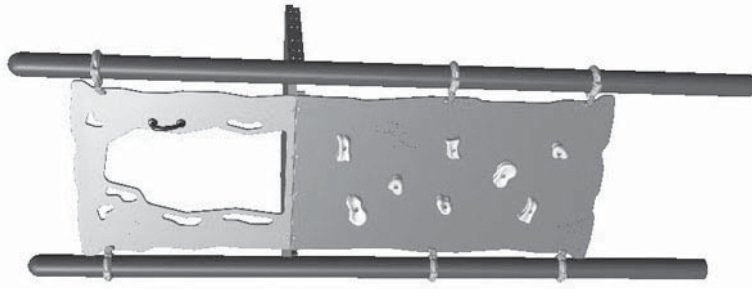
PM6956 - NUVO™ SWERVE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	2
AAU6115	CLAMP - 5" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5" DIA BACK SOCKET	2
AFR1421	CLIMBER - SWERVE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0079	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/PATCH	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BPL0300	CAP - 3/8" BOLT	4
RAA_____	GATE - ACCESS LEFT	2
RAB_____	GATE - ACCESS RIGHT	2



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM6977	60" (1525 mm)	100.9 lbs. (45,8 kg)
ZZPM6976	72" (1830 mm)	113 lbs. (51,4 kg)

Installation Instructions Playmakers® Models PM6976 and PM6977 Cliff Hanger 72 in. (1829 mm) and 60 in. (1524 mm) Decks

Installation Preparation

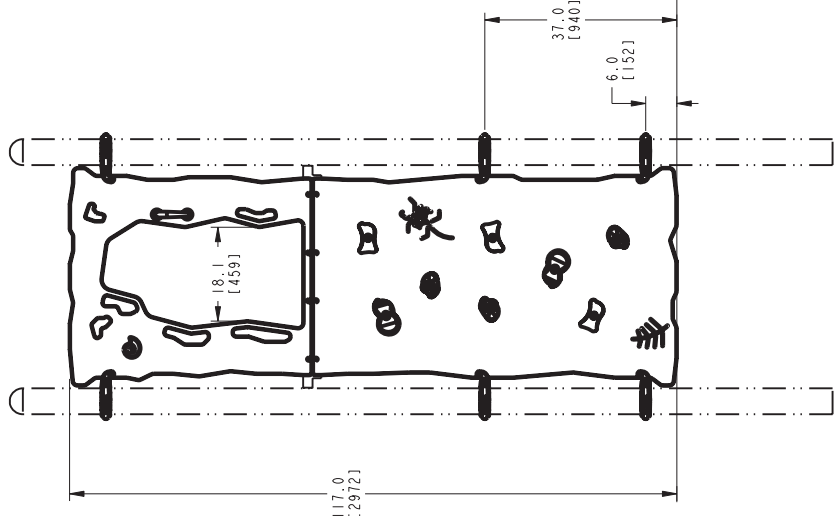
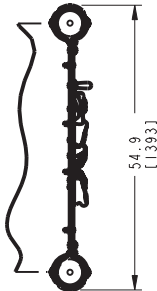
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

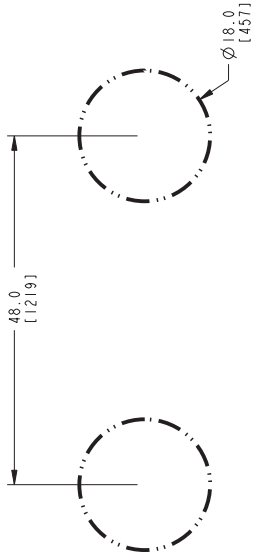
Installation Instructions

KEY			
Position	Unit of Measurement		
Top #	Inches		
Bottom #	[Millimeters]		

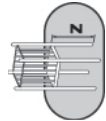
Top View



Elevation View
PM6976



Footing Diagram



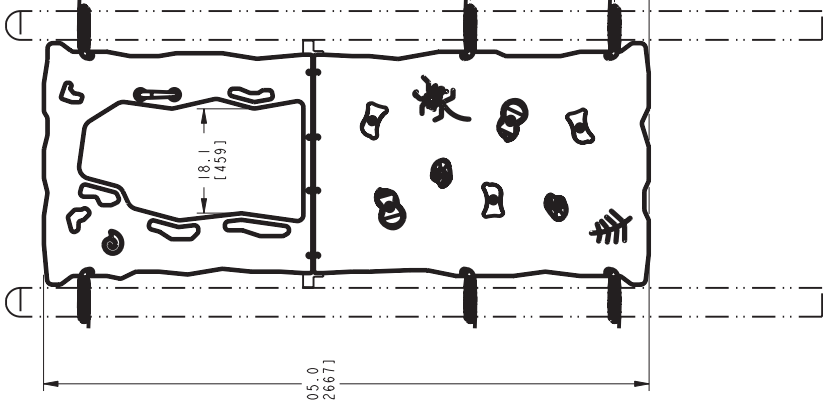
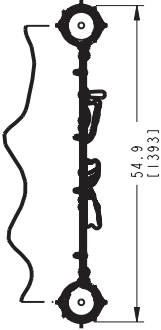
Critical Fall Height
72" (1830 mm)



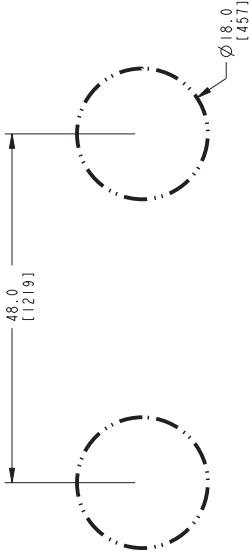
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Elevation View
PM6977

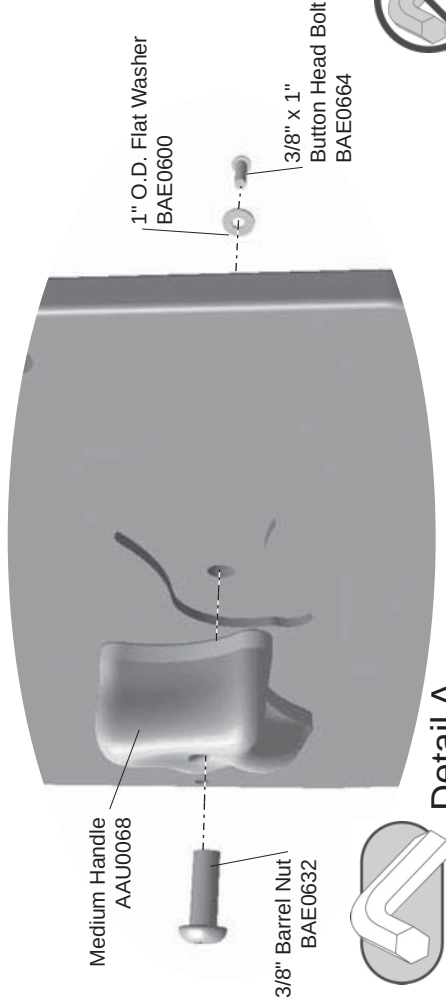


Footing Diagram



Installation Instructions

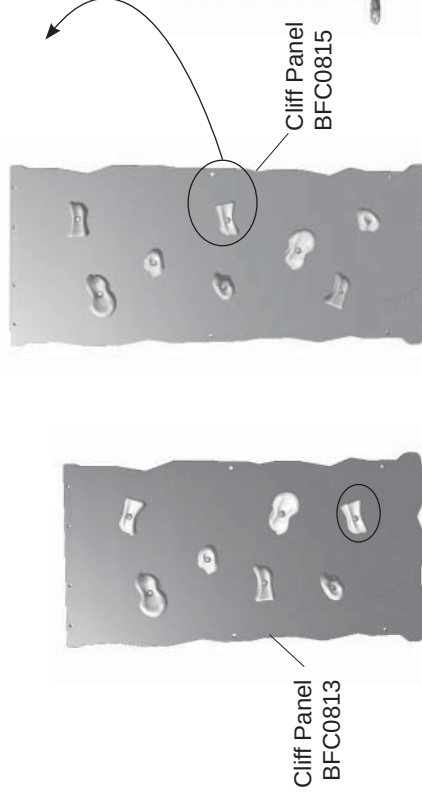
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A

Step 3

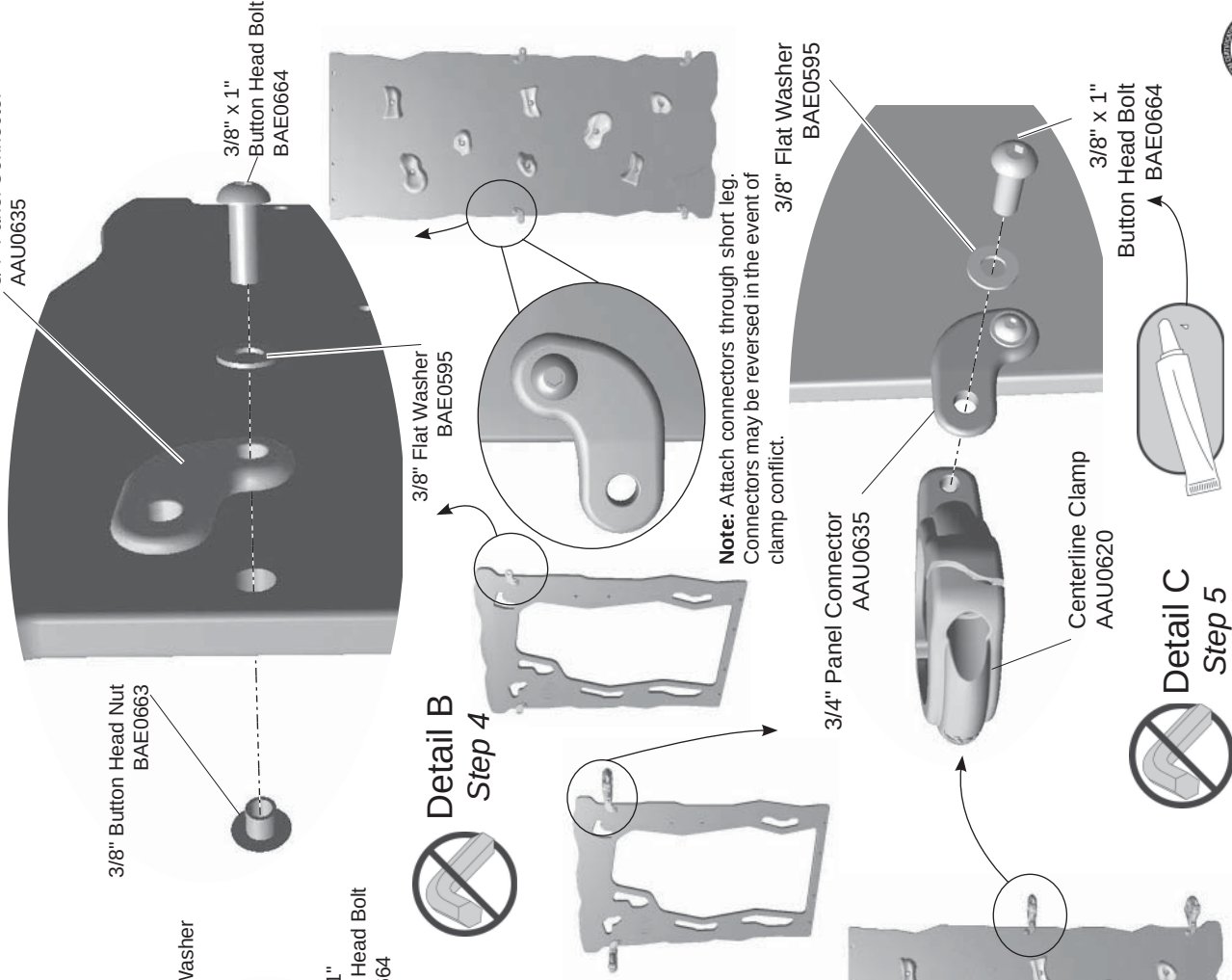
Model	Sm (AAU0067)	Med (AAU0068)	Lg (AAU0069)
ZZPM6977	2	3	2
ZZPM6976	3	3	2



ZZPM6977

ZZPM6976

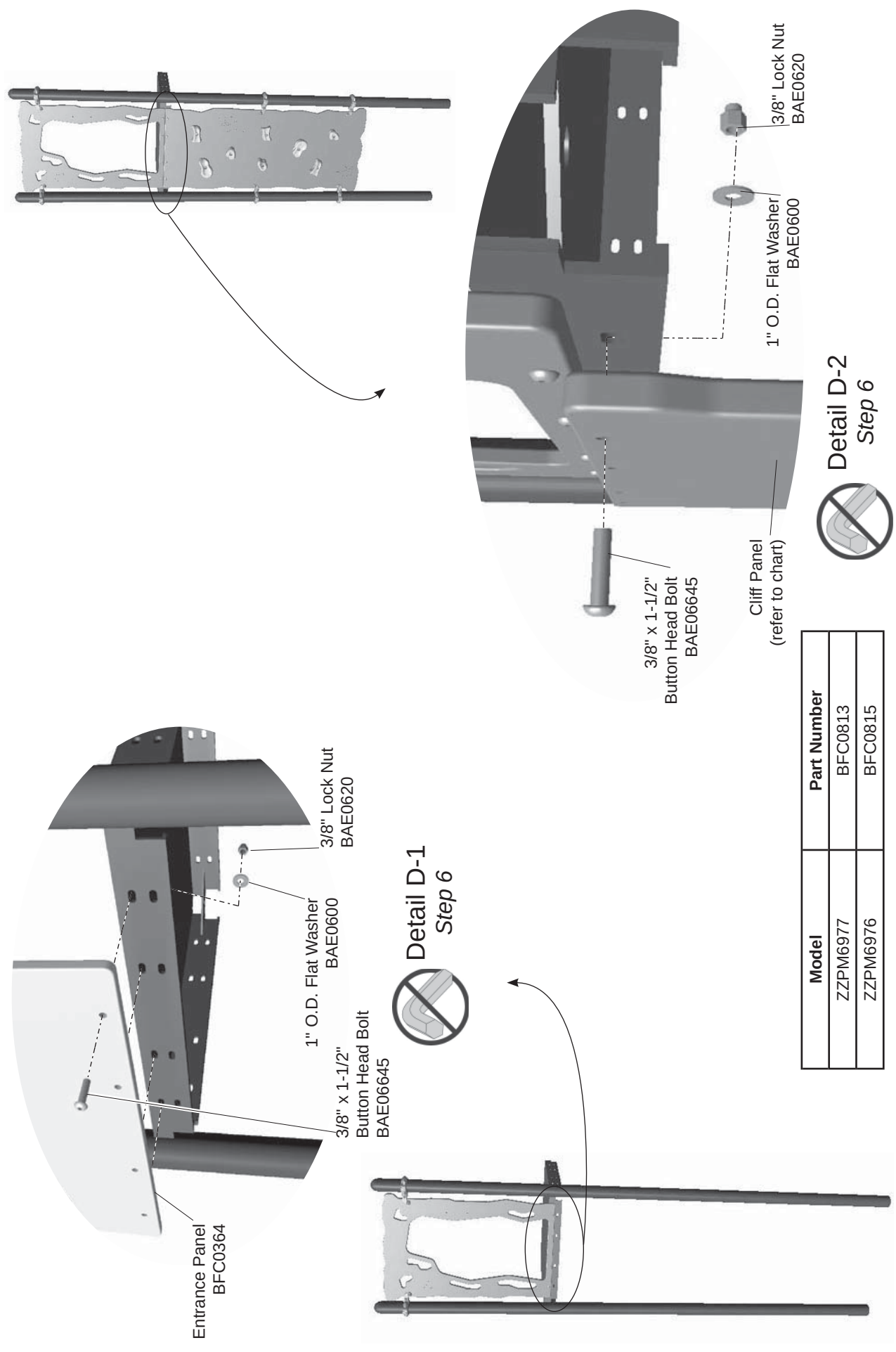
Note: Each model has a different number of handles, but all connections are the same. Refer to the chart above for the number of handles. Match each handhold into a corresponding indentation in the front of the panel. Follow **Detail A** for all connections.



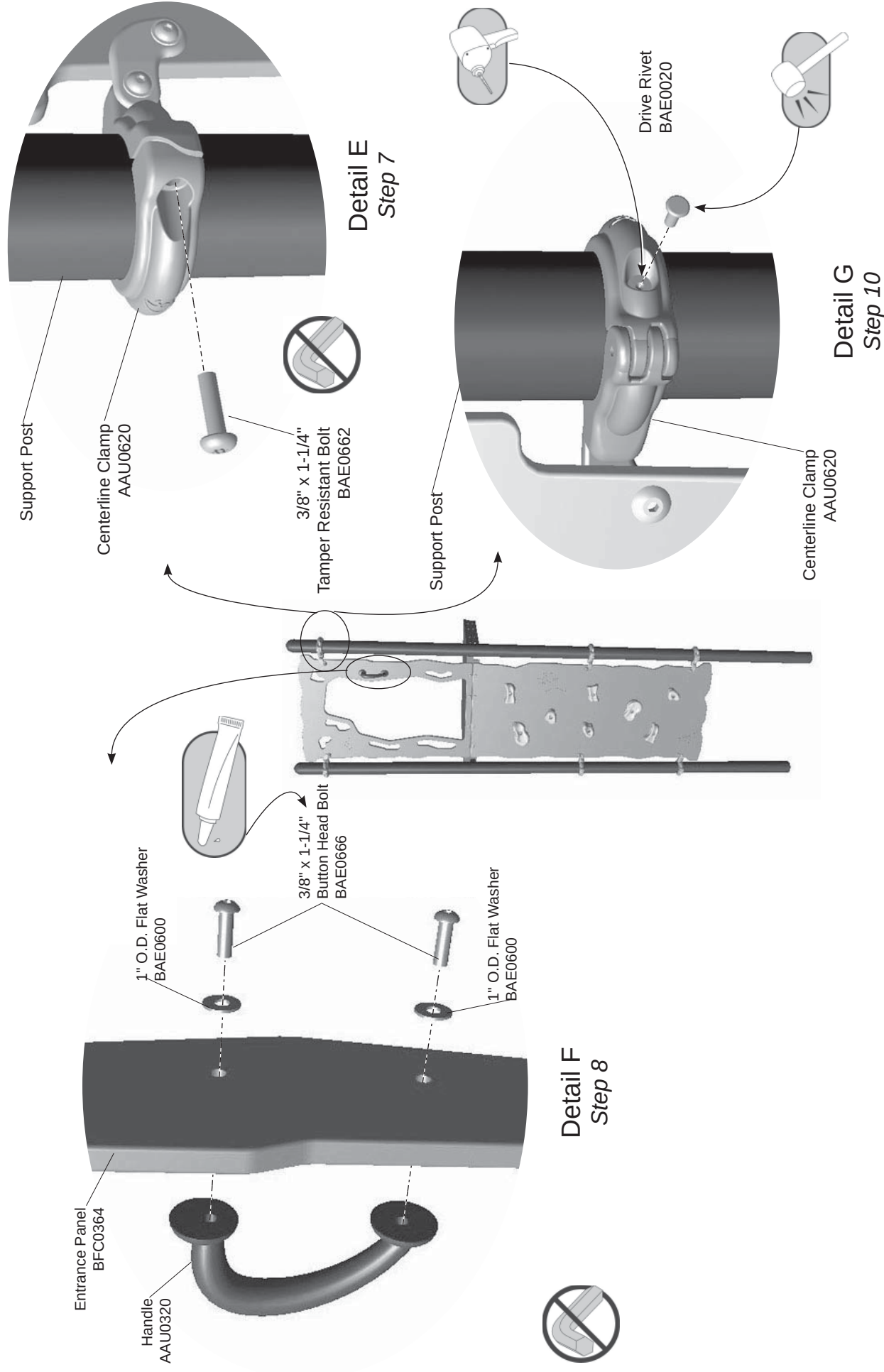
Detail C

Step 5

Installation Instructions



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the handholds to the Cliff Hanger panel.

__Step 3: Attach the handholds to the Cliff Hanger panel. See **Detail A**. Select the Cliff Hanger panel, the large handholds, the medium handholds, the small handholds, and the appropriate hardware. There is (1) one connection per handhold. Refer to the chart on page 4 for the number of handholds needed. Place the flat side of each handhold into a corresponding indentation in the front of the panel (with the designs). Attach as shown. Fully tighten each connection.

Attach the connectors and the clamps to the panels

__Step 4: Attach the panel connectors to the panels. See **Detail B**. Select the Cliff Hanger panel, the entry panel, the panel connectors, and the appropriate hardware. There are (6) six connections. The panel connectors have a short and a long leg. Place the short leg of each connector against an outside hole on the front (design side) of each panel. Attach as shown. The connectors should be oriented the same way on each panel (with the short leg pointed up or down).

__Step 5: Attach the clamps to the panels. See **Detail C**. Select both panels the offset centerline clamps and the appropriate hardware. There are (6) six connections. Position the flat side of each clamp against the panel side of the connector. Apply a drop of loctite to the bolt threads and attach as shown.

Attach the panels to the deck.

__Step 6: Attach the panels to the deck. See **Details D-1 and D-2**. Select both panel assemblies and the appropriate hardware. There are (4) four connections per panel. Place the entry panel (panel connector side out) against the deck and align with the upper holes. Close the clamps around the posts and attach as shown. Close the lower panel's clamps around the posts and align the panel mounting holes with the lower holes in the deck. Attach in the same manner as the upper panel.

Note: If there is a clamp conflict, detach the panel connector from the panel and clamp. Flip the connector so that the short leg is pointing in the opposite direction (up or down). Reattach the clamp and connector to the panel as described in **Step 4**.

Secure the clamps to the posts

__Step 7: Secure the clamps to the posts. See **Detail E**. Select the appropriate hardware. There are (6) connections. Attach as shown.

Attach the handle to the entry panel.

__Step 8: Attach the handle to the entry panel. See **Detail F**. Select handle and the appropriate hardware. There are (2) two connections. Place the handle, with the tapered end down, against the outside of the entry panel and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

__Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 10: Install the drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

ZZPM6977 - 60 in. (1524 mm) CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	2
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AAU0320	CASTING - SPRING RIDER HANDLE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	6
AAU0635	CONNECT - 3/4" PANEL	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	6
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	19
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BFC0364	SHEET - 42.00" x 46.69" ENTRANCE	1
BFC0813	SHEET - 42.00" x 58.19" x .75" CLIFF	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

ZZPM6976 - 72 in. (1829 mm) CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	3
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AAU0320	CASTING - SPRING RIDER HANDLE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	6
AAU0635	CONNECT - 3/4" PANEL	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	6
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BFC0364	SHEET - 42.00" x 46.69" ENTRANCE	1
BFC0815	SHEET - 42.00" x 70.19" x .75" CLIFF	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Installation Instructions Playmakers®

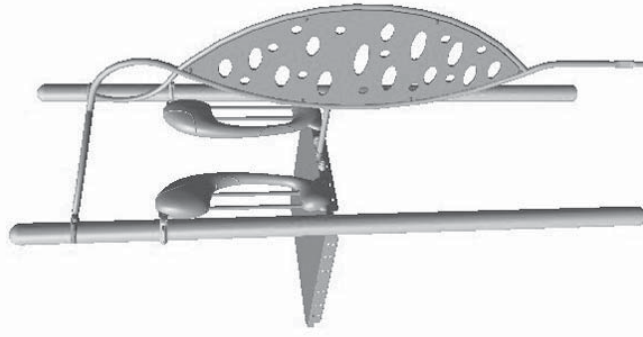
Models PM7046, PM7047, PM7048 and PM7049

Nuvo™ Twist Climber

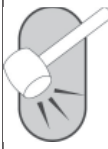
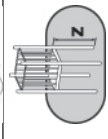
36 in. (914 mm), 48 in. (1219 mm), 60 in. (1524 mm)
and 72 in. (1829 mm) Decks

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Concrete Required: 0.03 cubic yard (0.02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

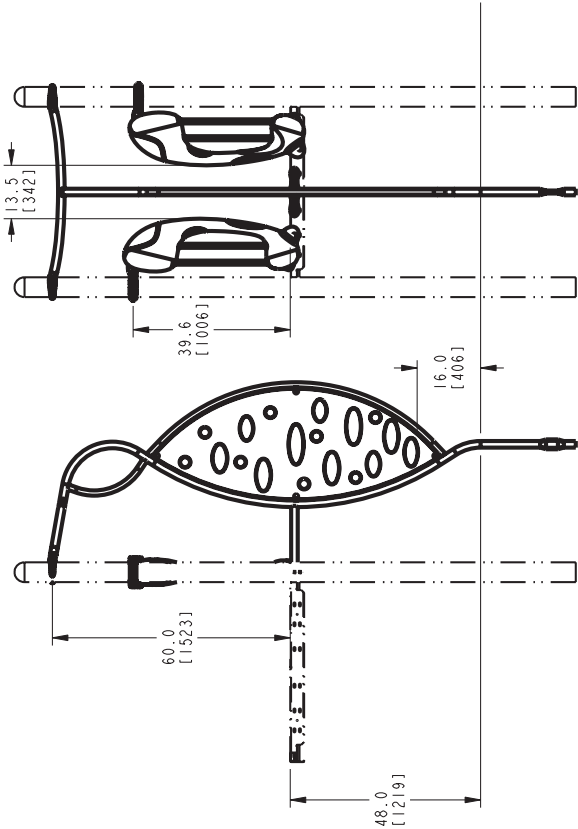
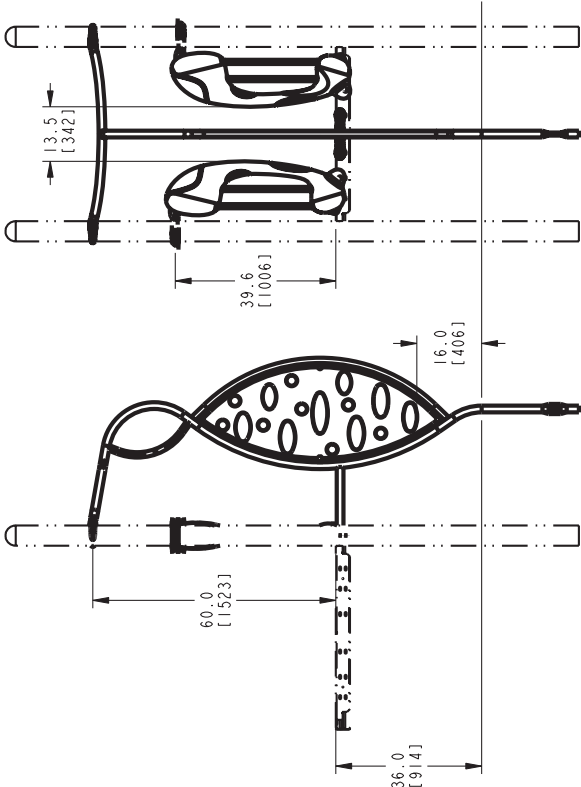
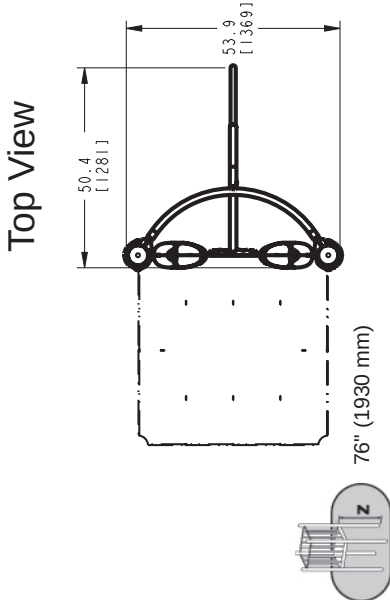
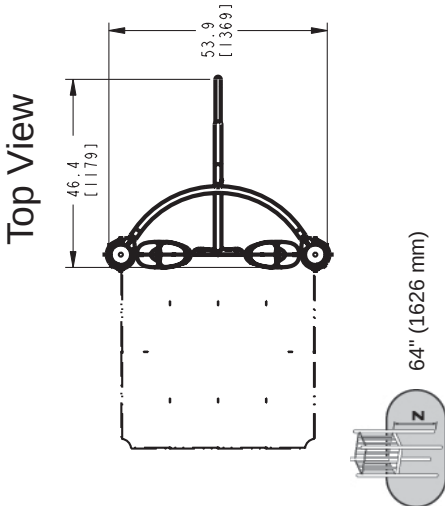
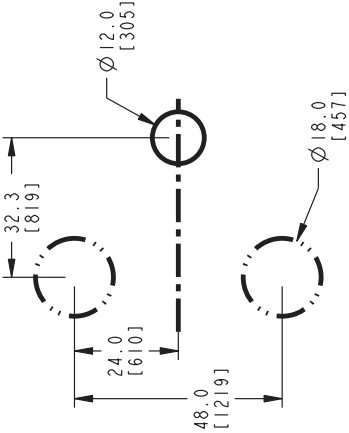


Assembly View (representative model)

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

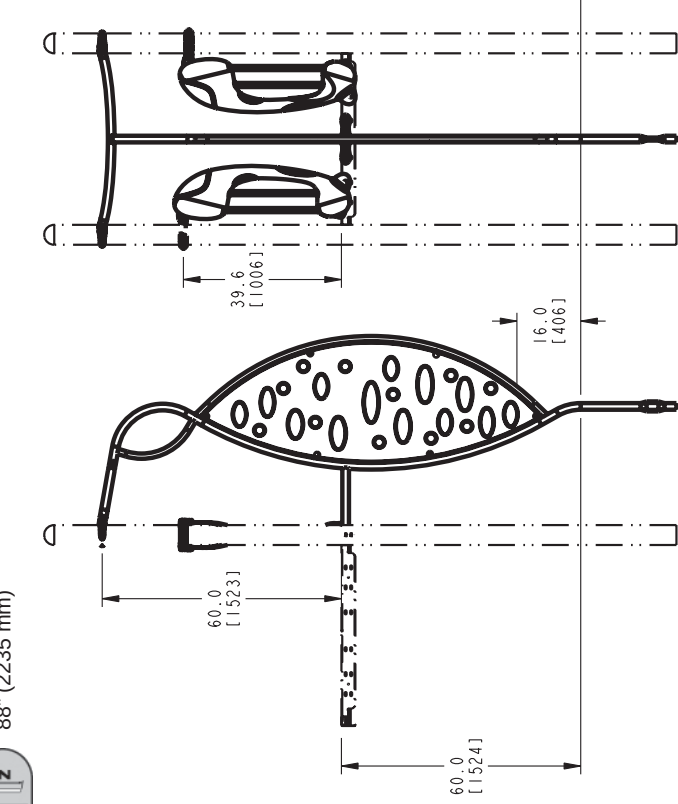
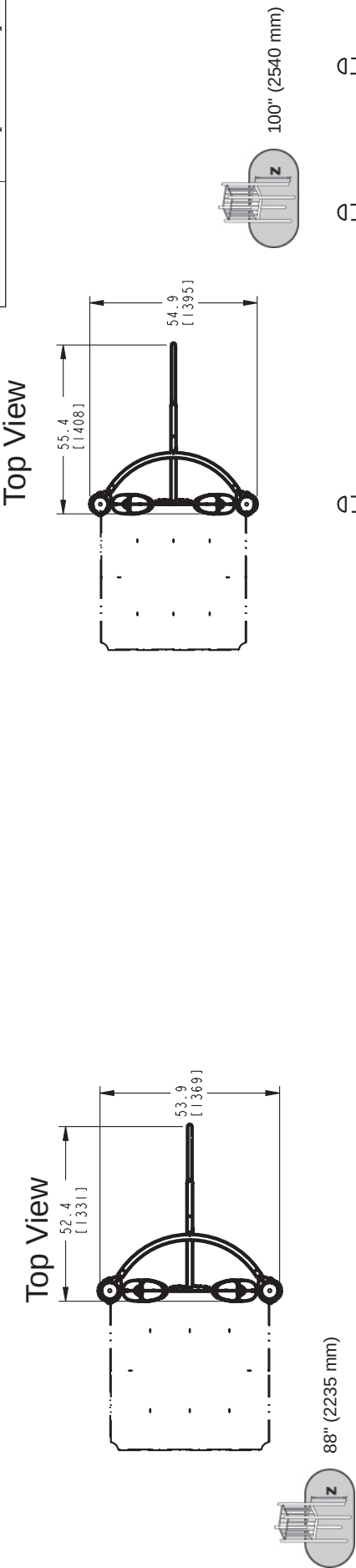
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



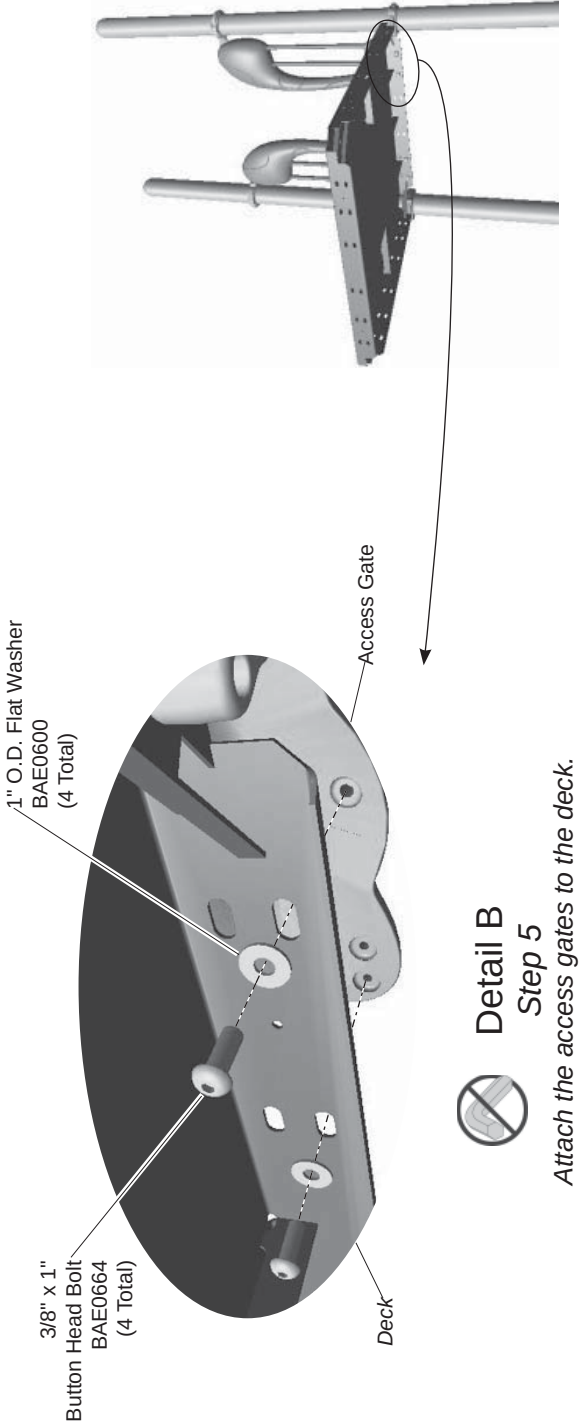
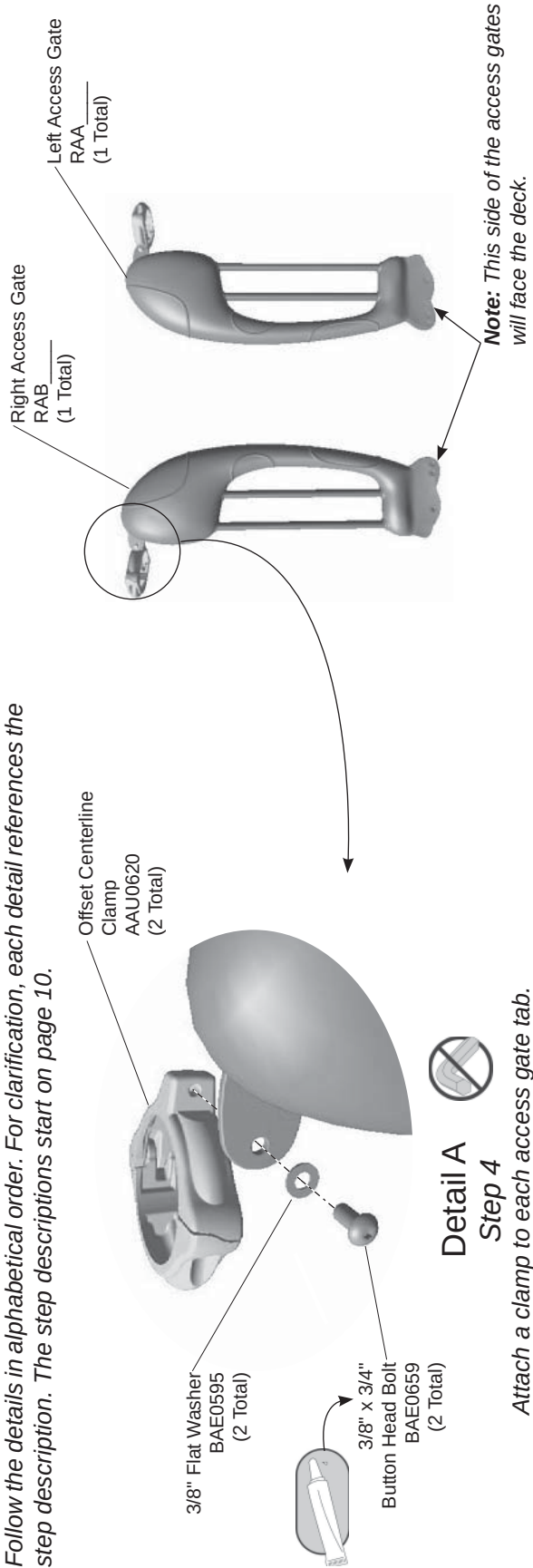
Elevation Views
PM7046

Elevation Views
PM7047

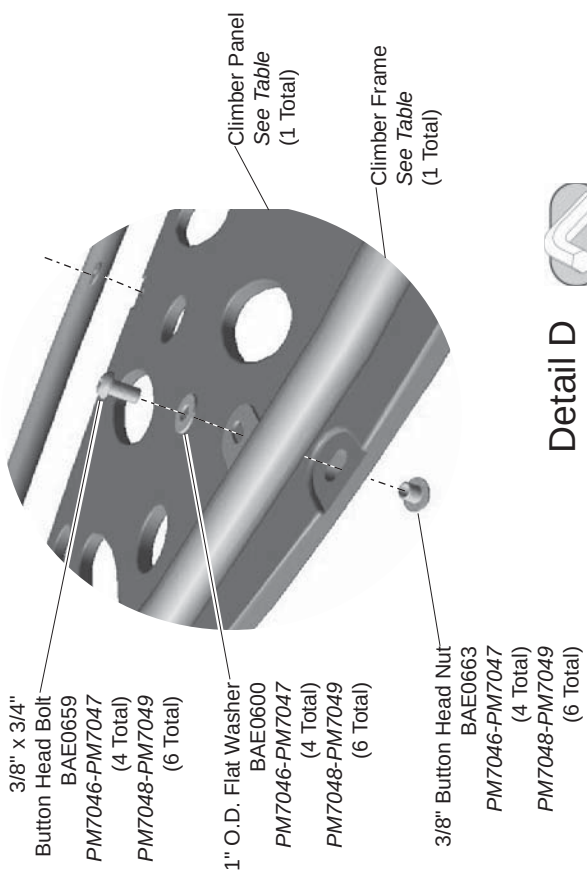


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.



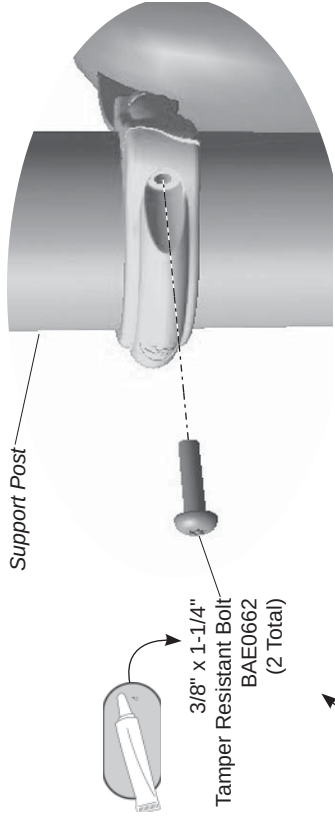
Installation Instructions



Detail D Step 7

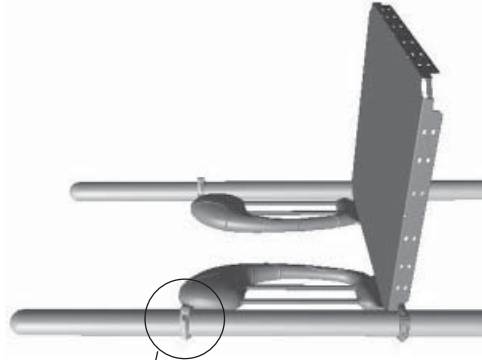
Attach the climber panel to the climber frame.

Model	Climber Frame Part No.	Climber Panel Part No.
PM7046	ACL0390	BFC3507
PM7047	ACL0392	BFC3508
PM7048	ACL0394	BFC3509
PM7049	ACL0396	BFC3510



Detail C Step 6

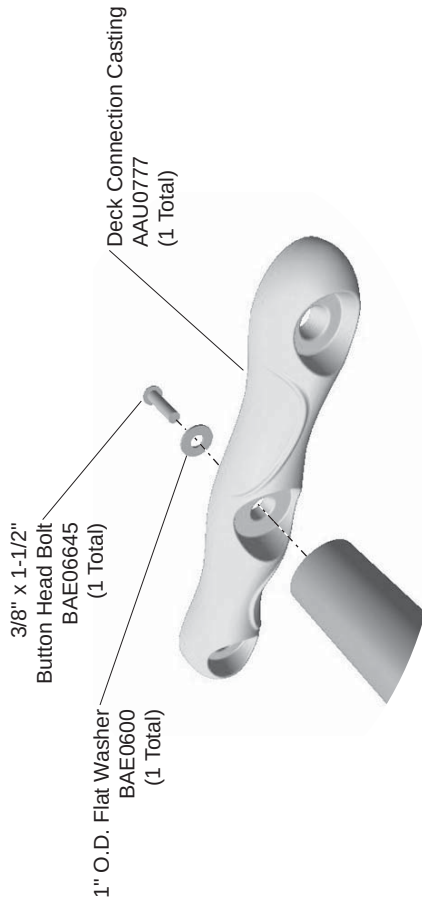
Attach the access gates to the support posts.



Note: There is an "L" routed on one end of the climber. This must be positioned to the bottom of the climber frame. Contour of the climber panel must match the contour of the climber frame.



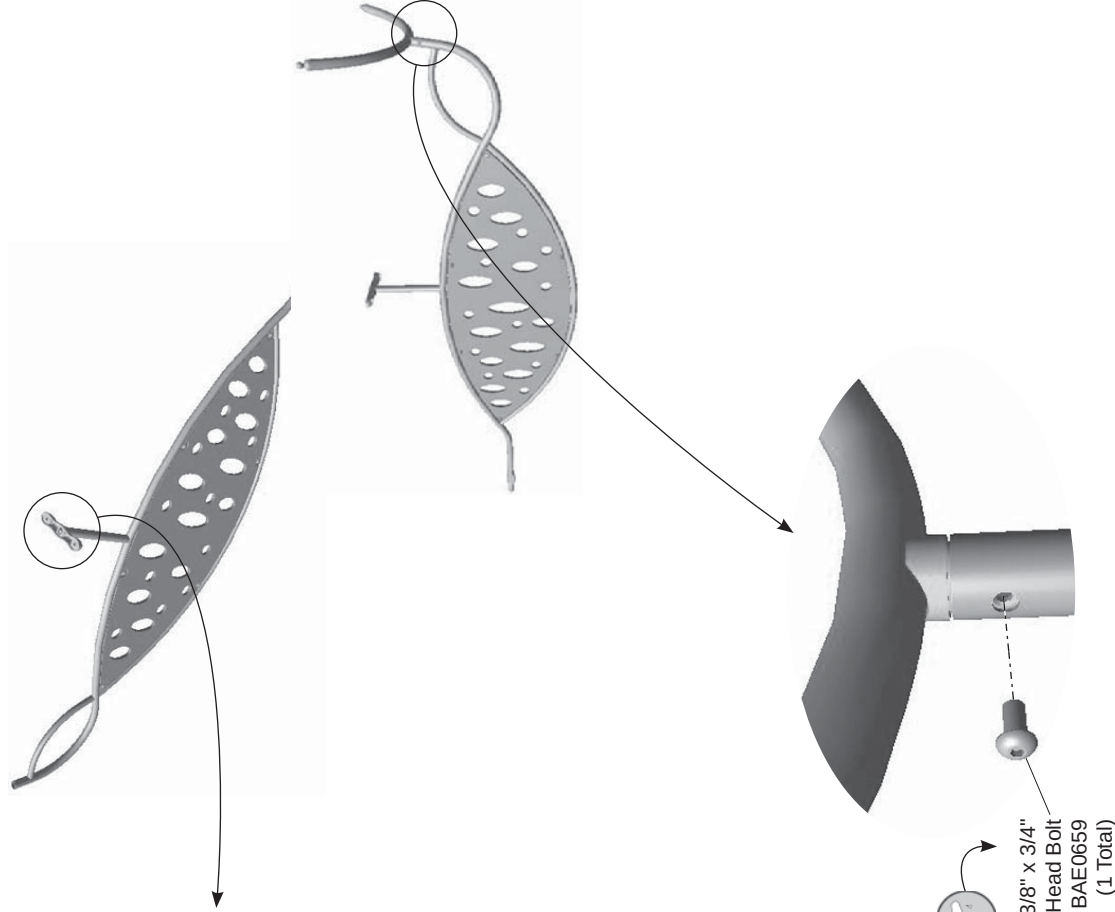
Installation Instructions



Detail E

Step 8

Attach the deck connection casting to the climber frame.

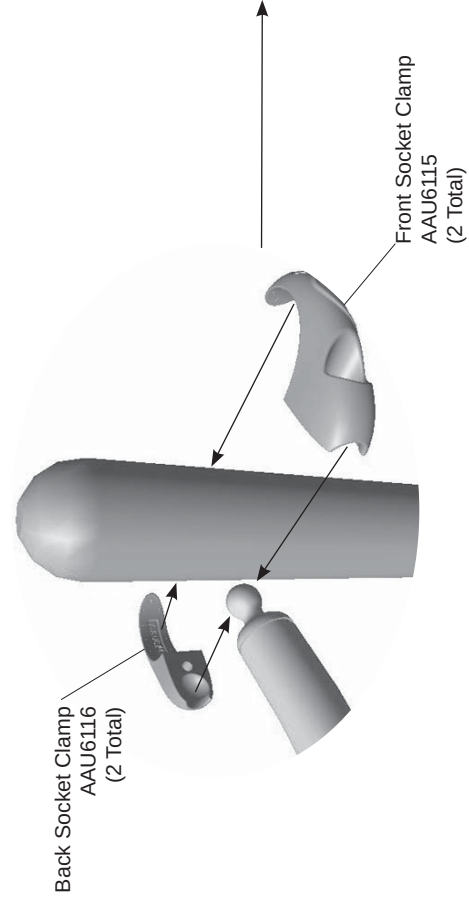
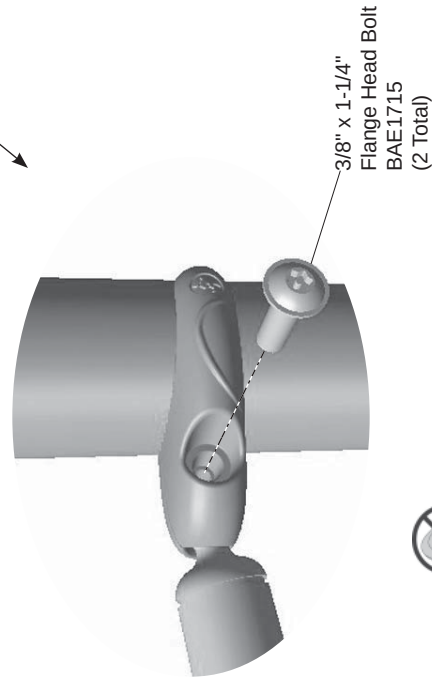
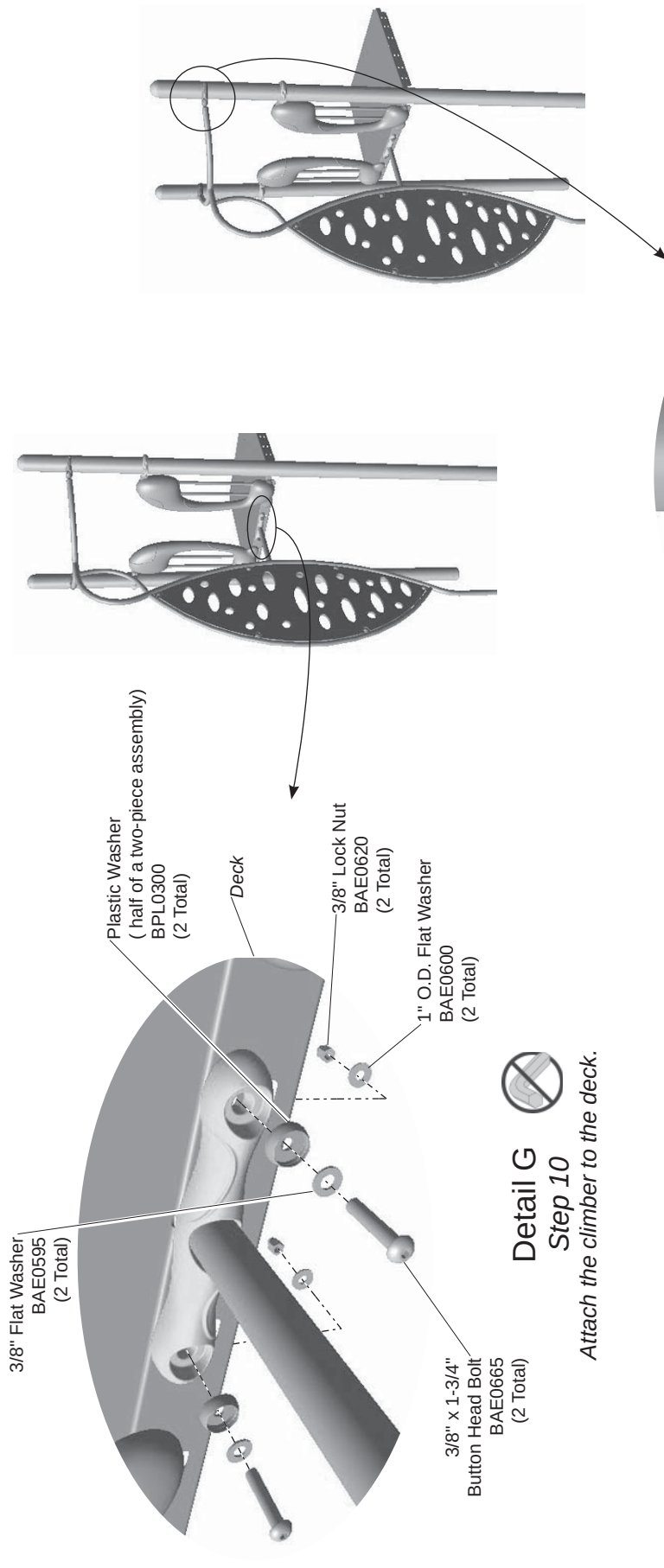


Detail F

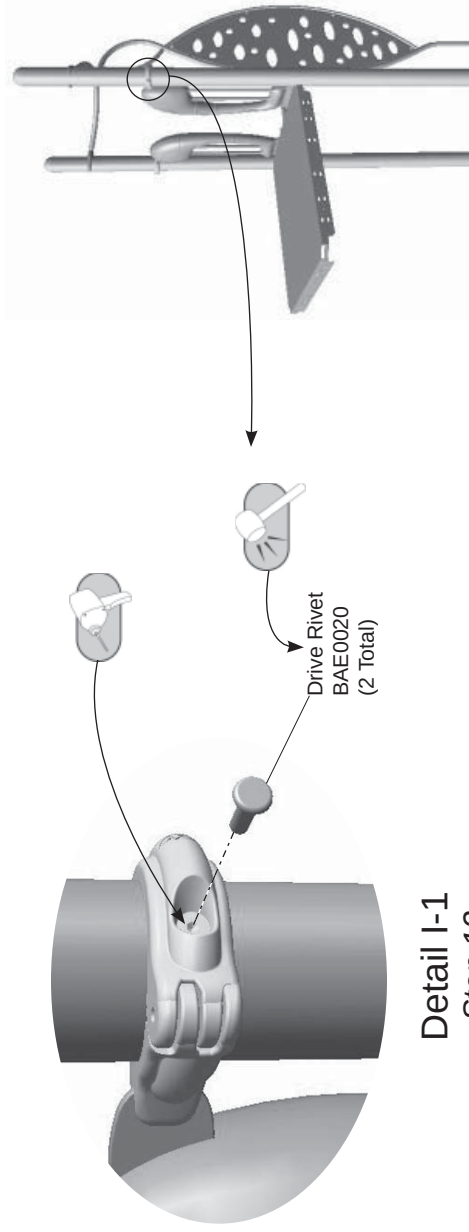
Step 9

Attach the climber support frame to the climber frame.

Installation Instructions



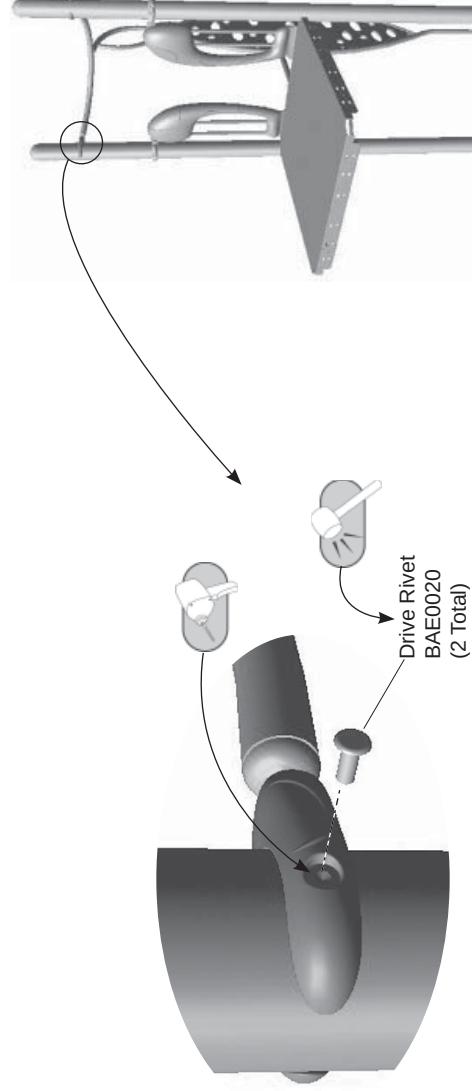
Installation Instructions



Detail I-1

Step 13

Secure the clamp to the support post.

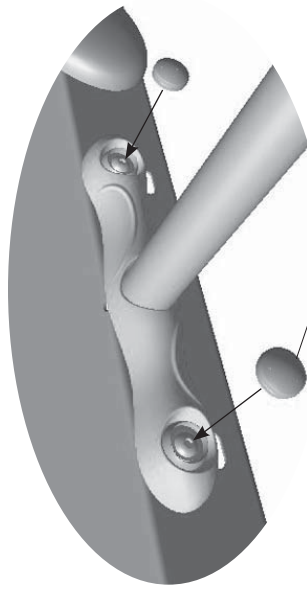
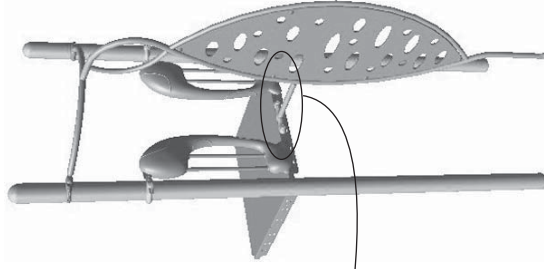


Detail I-2

Step 13

Secure the back socket clamp to the support post.

Installation Instructions



Plastic Bolt Cap
(half of a two-piece assembly)
BPL0300
(2 Total)

Detail J Step 14

Press the bolt caps into the plastic washers (deck connection casting).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet.

Step 4: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces the deck.

Step 5: Attach the access gates to the deck. See **Detail B**. Position the access gates against the deck with the clamps closed around the support posts, and attach as shown. Gates may be attached to the upper holes or the lower holes in the deck.

Step 6: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 7: Attach the climber panel to the climber frame. See **Detail D**. Position the side of the climber panel with the routed out edges against the tabs on the climber frame and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Attach the deck connection casting to the climber frame. See **Detail E**. Position the casting against the climber and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Step 9: Attach the climber support frame to the climber frame. See **Detail F**. Slide the support frame into the top of the climber frame, align the holes, apply a drop of thread locking adhesive to the bolt thread and attach as shown.

Step 10: Attach the climber to the deck. See **Detail G**. Place the climber assembly in it's footing with the deck connection casting aligned with the deck and attach as shown.

Step 11: Attach the climber assembly to the support posts. See **Detail H**. Position each socket clamp against a support post and over the ball on the end of the climber support frame attach as shown.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 13: Install drive rivets. See **Details I-1 and I-2**. After the equipment assembly is complete, install a drive rivet in the centerline clamp and the back socket clamp to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**. The bolt caps install more easily when they are warm.

Bill of Materials

PM7046 - NUVO™ TWIST CLIMBER 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0390	CLIMBER - 43.25" x 118.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3507	CLIMBER - .75" x 24.13" x 60.55"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

PM7047 - NUVO™ TWIST CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0392	CLIMBER - 47.25" x 130.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3508	CLIMBER - .75" x 28.15" x 72.40"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1



Bill of Materials

PM7048 - NUVO™ TWIST CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0394	CLIMBER - 49.25" x 142.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3509	CLIMBER - .75" x 30.15" x 85.17"	1
BPL0300	CAP - 3/8" BOLT	2
RAA	GATE - ACCESS LEFT	1
RAB	GATE - ACCESS RIGHT	1

PM7049 - NUVO™ TWIST CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0396	CLIMBER - 52.25" x 154.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3510	CLIMBER - .75" x 33.15" x 97.87"	1
BPL0300	CAP - 3/8" BOLT	2
RAA	GATE - ACCESS LEFT	1
RAB	GATE - ACCESS RIGHT	1



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Installation Instructions

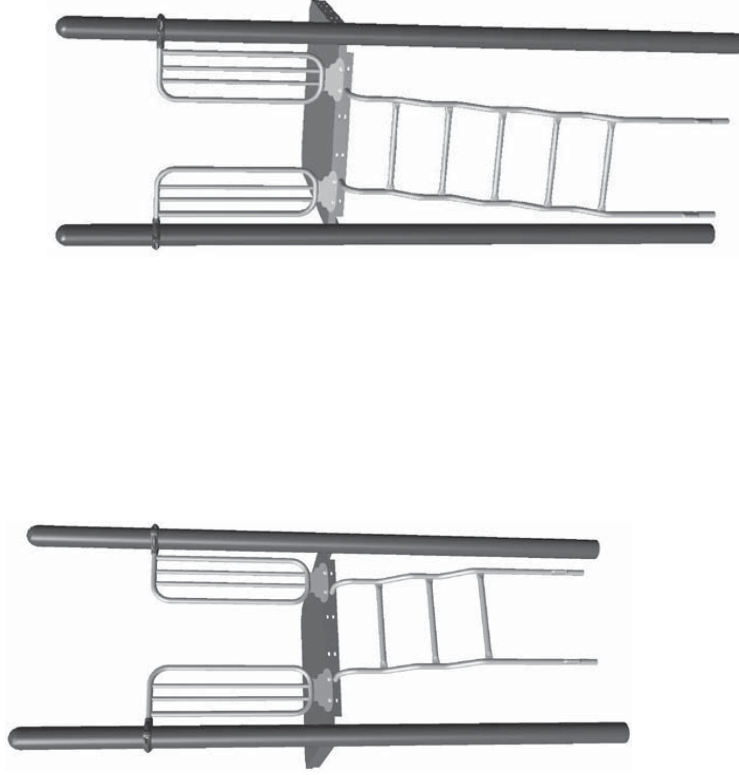
Playworld Systems

Models PM8289, PM8290, PM8300, PM8310

Ribbon Climber

36 in. (914 mm), 48 in. (1219 mm),

60 in. (1524 mm), 72 in. (1829 mm)



Assembly View (representative models)

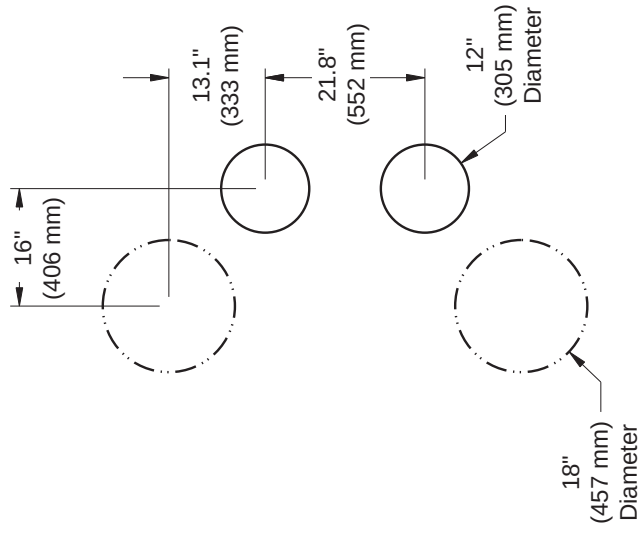
Installation Preparation

Recommended Crew:	One (1) adult
Installation Time:	1.5 hours
Weight:	See table at lower left
Concrete Required:	0.06 cubic yard (0.5 cubic meters)
Use Zone:	Refer to Use Zone on Master Drawing
User Group Age (years):	36"-48": ASTM/CSA: 2-12, EN: 2-14
.....	60"-72": ASTM/CSA: 5-12, EN: 6-14

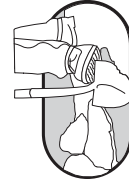
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Deck Height	PM8289 36 in. (914 mm)	PM8290 48 in. (1219 mm)	PM8300 60 in. (1524 mm)	PM8310 72 in. (1829 mm)
Weight	52 lbs. 23.6 kilos	59.1 lbs. 26.9 kilos	63.4 lbs. 28.8 kilos	69 lbs. 31.4 kilos

Installation Instructions

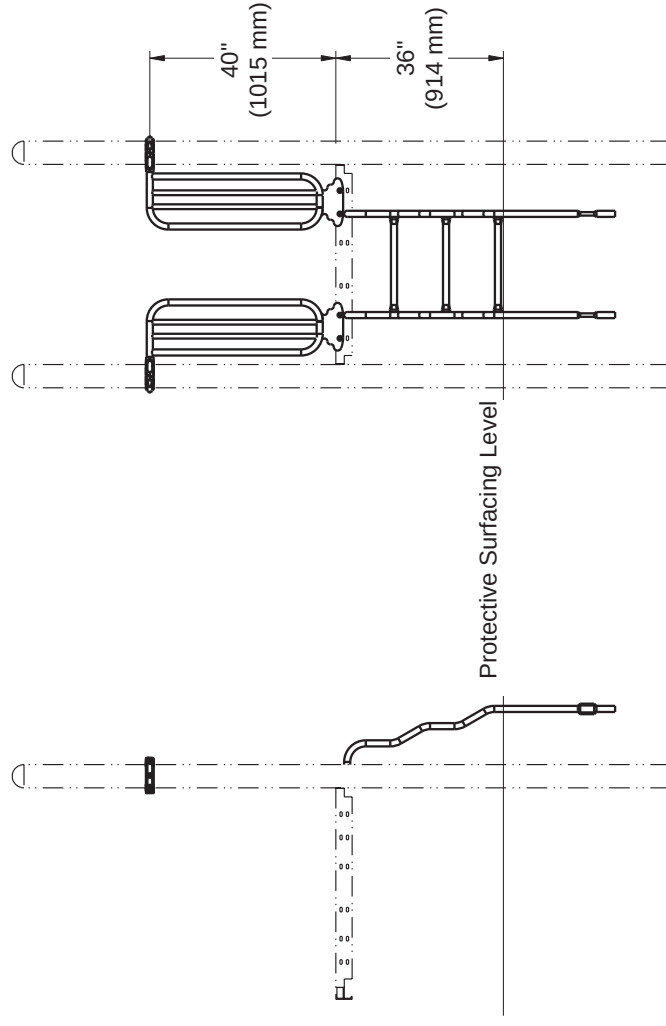
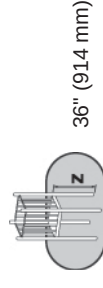
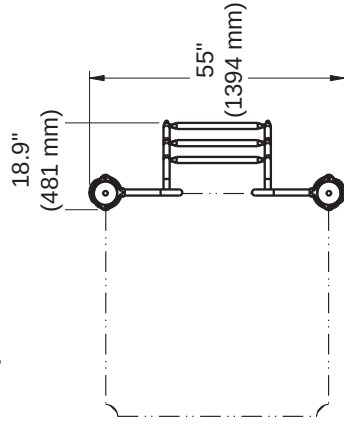


Footing Diagram



Step 4

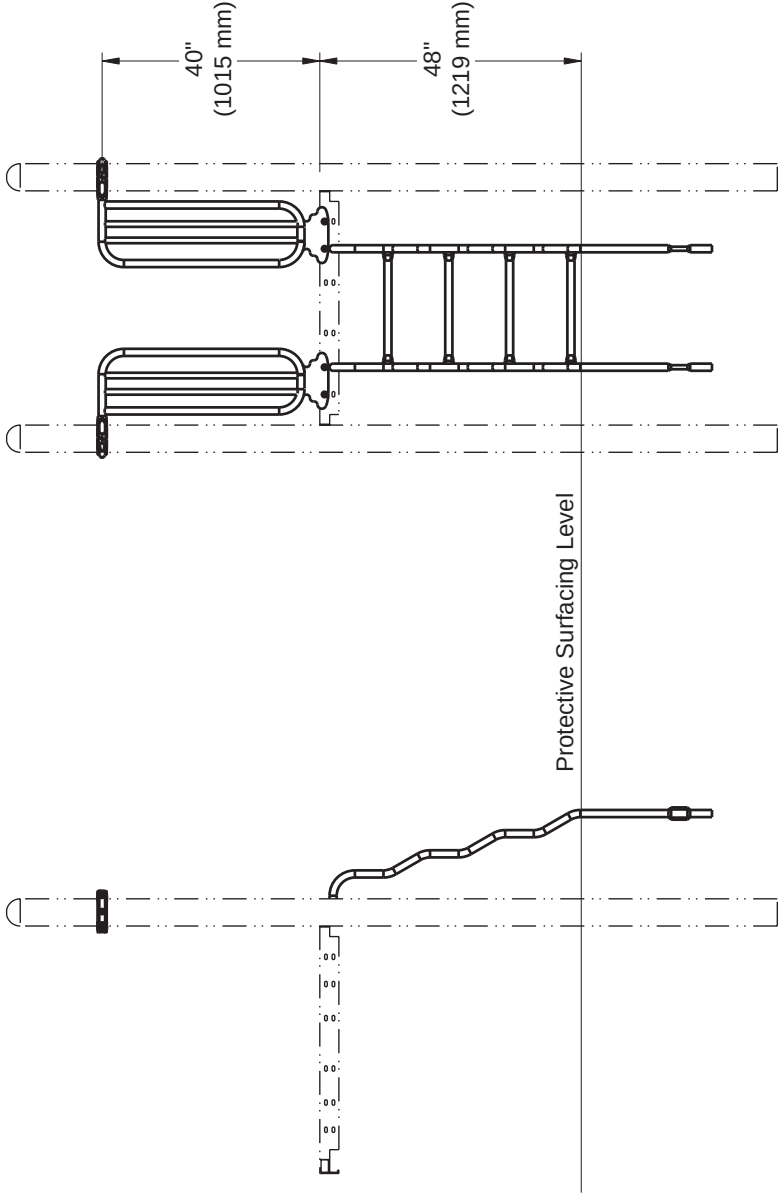
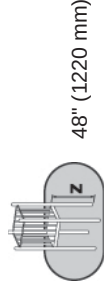
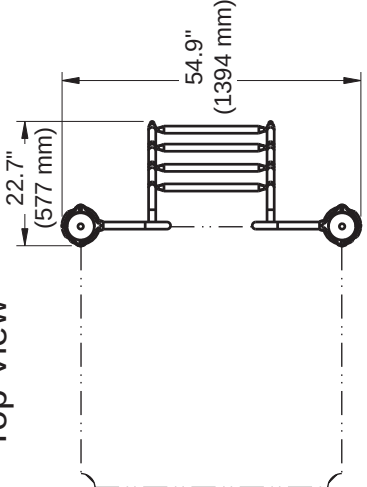
Top View



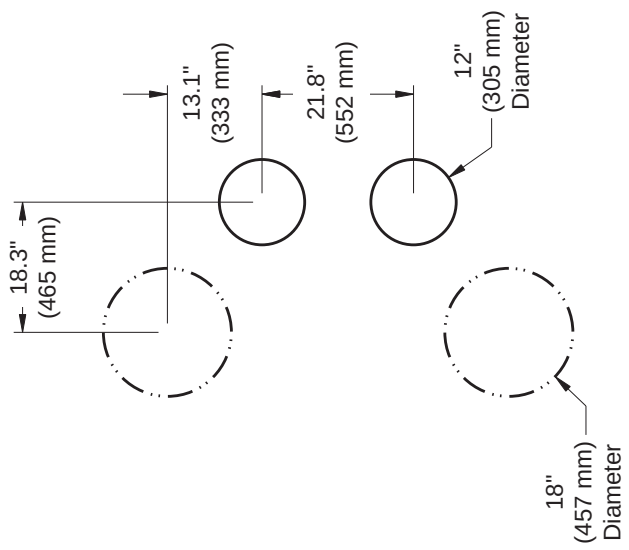
Elevation View
36" (914 mm) Deck

Installation Instructions

Top View



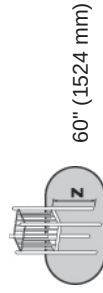
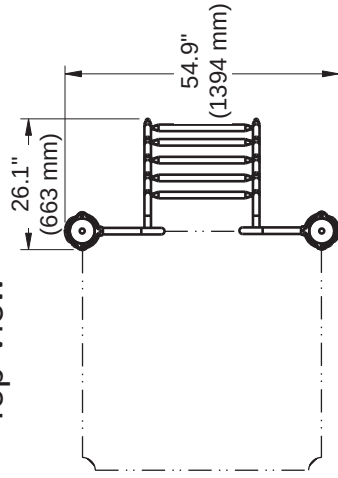
Elevation View
48" (1219 mm) Deck



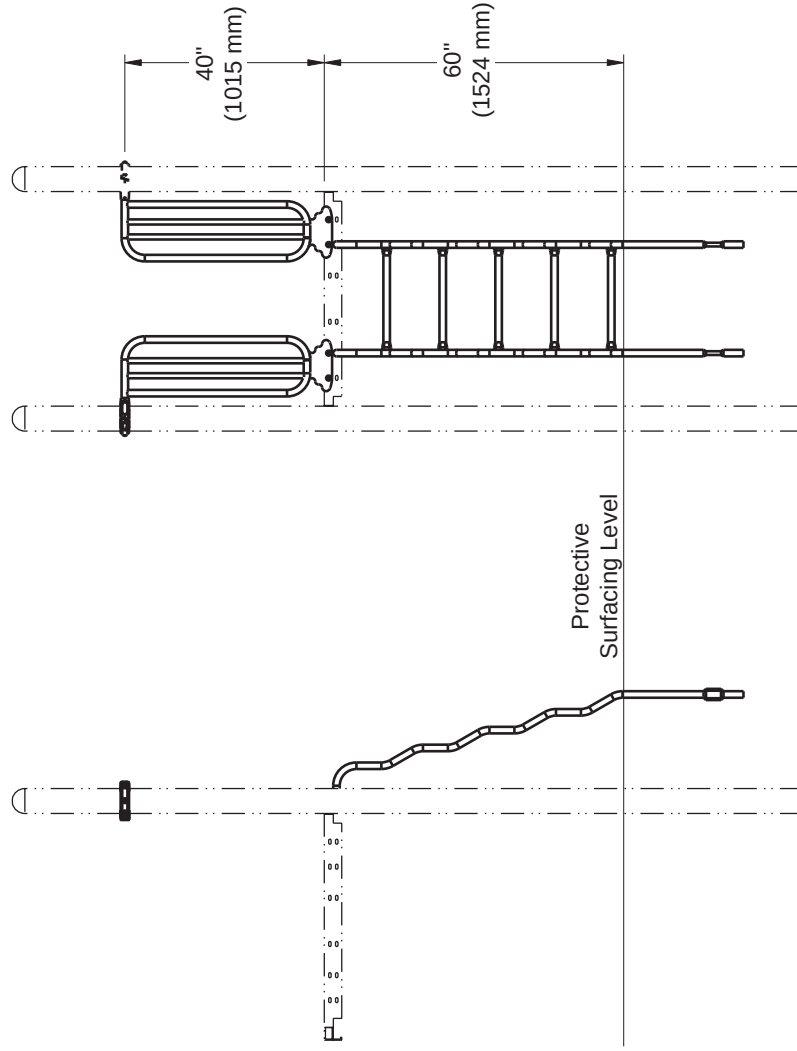
Footing Diagram

Installation Instructions

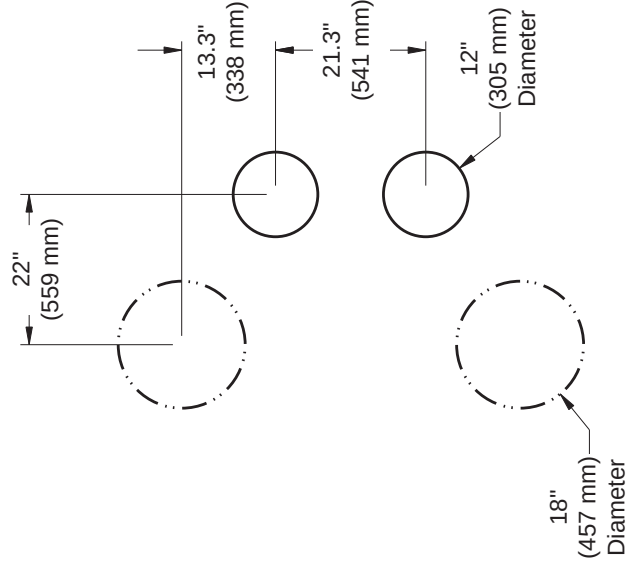
Top View



60" (1524 mm)



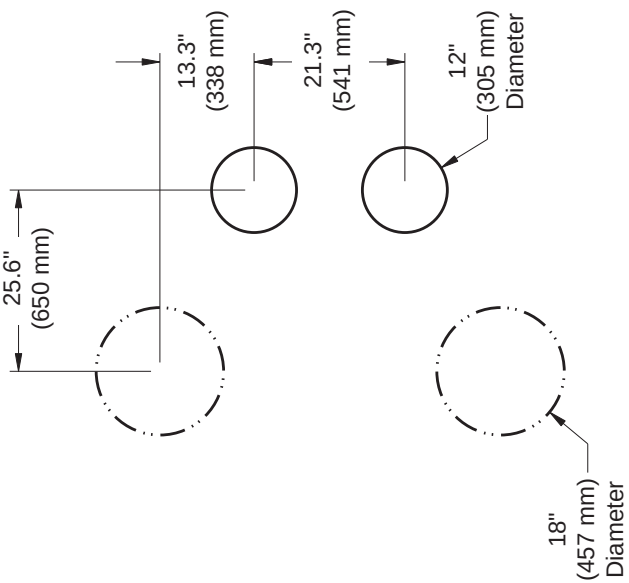
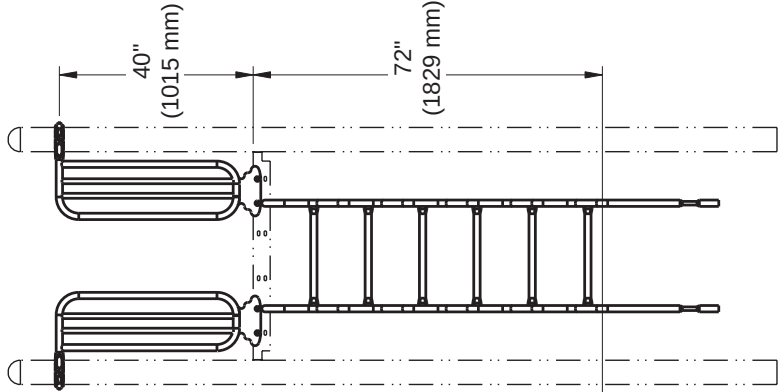
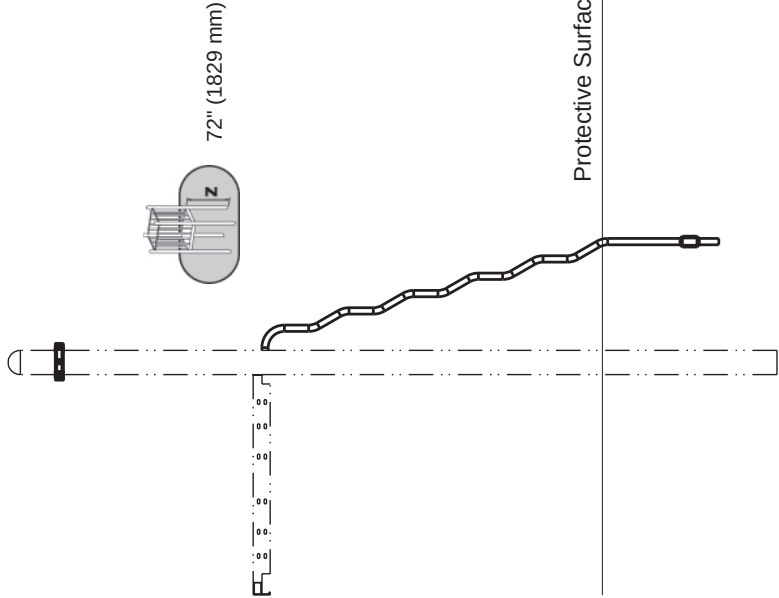
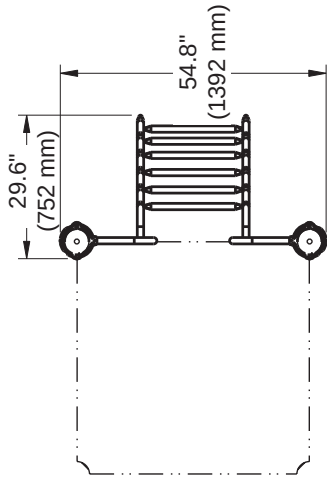
Elevation View
60" (1524 mm) Deck



Footing Diagram

Installation Instructions

Top View

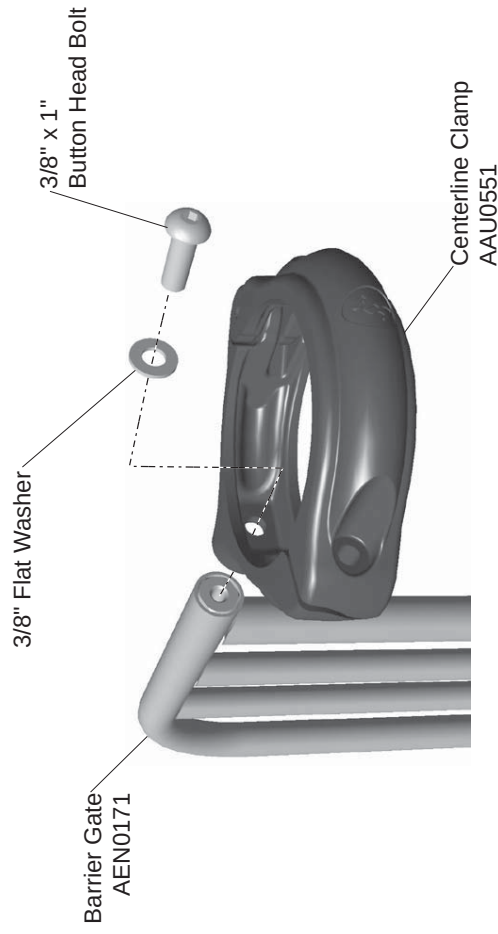


Footing Diagram

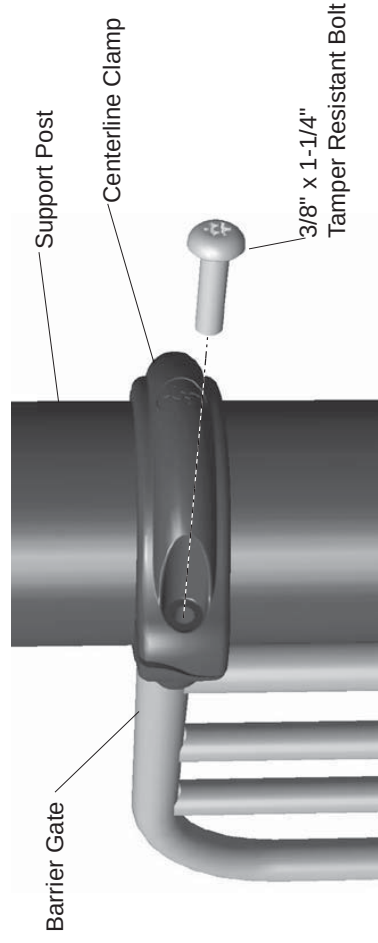
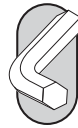
Elevation View
72" (1829 mm) Deck

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



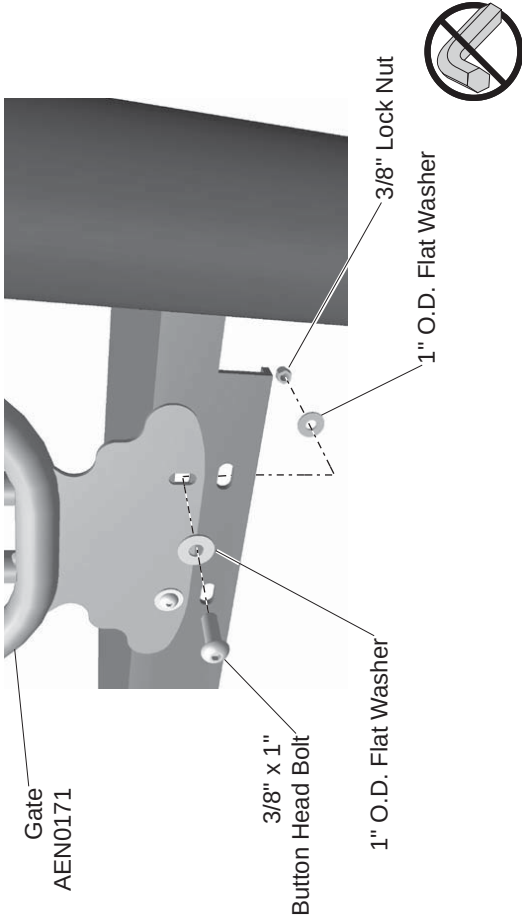
Detail A
Step 5



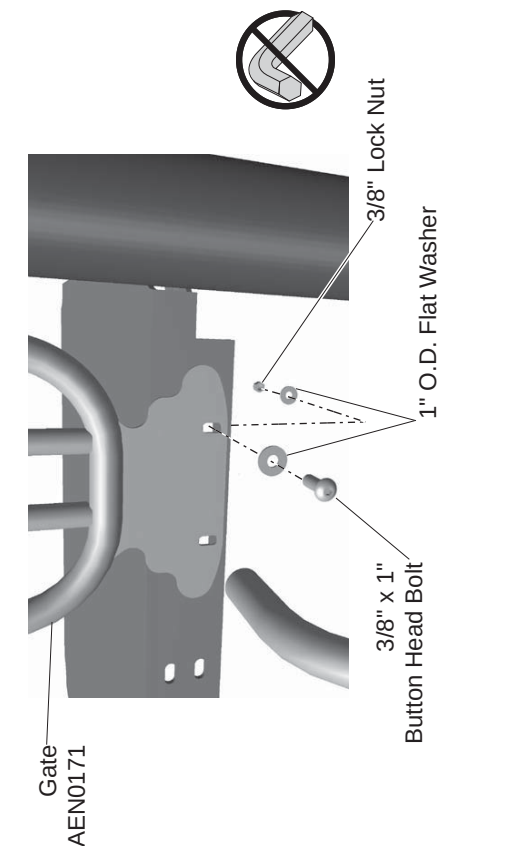
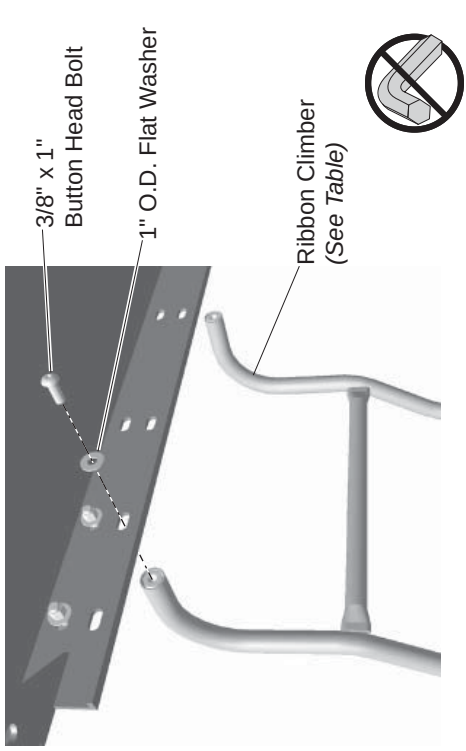
Detail B
Step 6



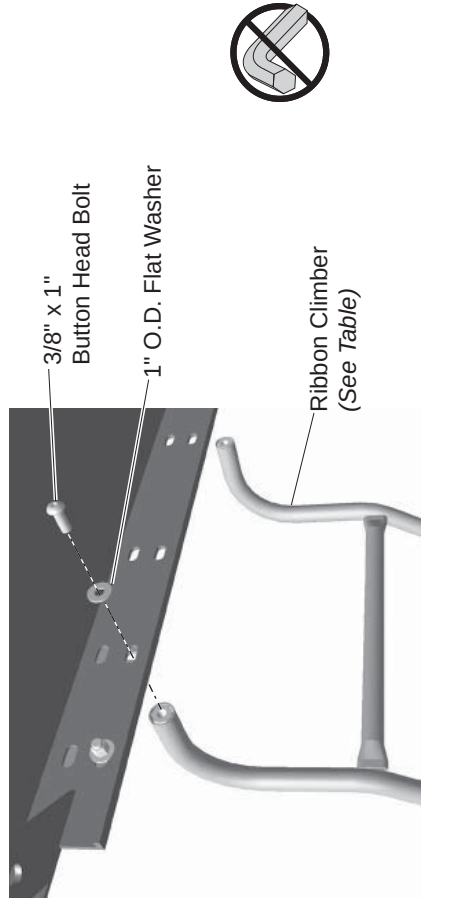
Installation Instructions



Gates in upper position



Gates in lower position

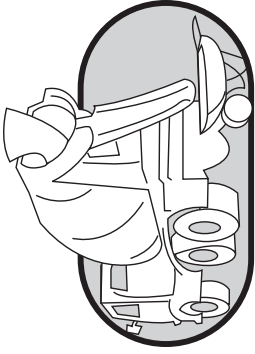


Detail C
Step 7

Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188



Installation Instructions



Step 8
Pour Concrete

INSTALLATION

—A Note Before You Begin:

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

—Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

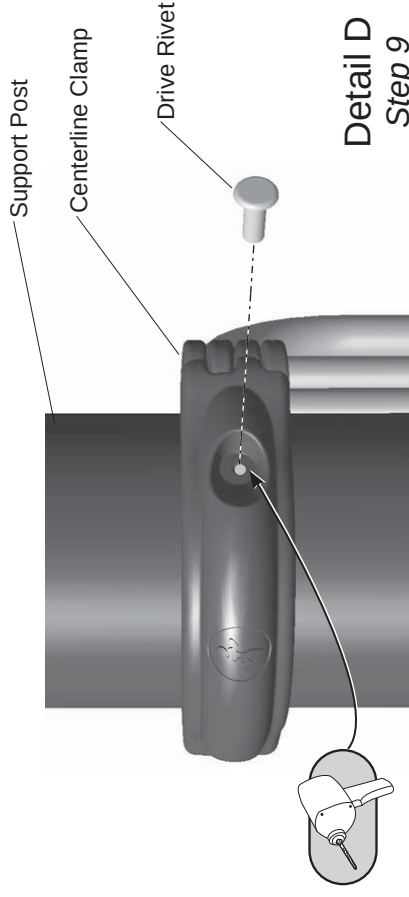
—Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

—Step 3: Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

—Step 4: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.

—Step 5: Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.



Attach the clamps to the support posts.

—Step 6: Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

—Step 7: Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

—Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

—Step 9: Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

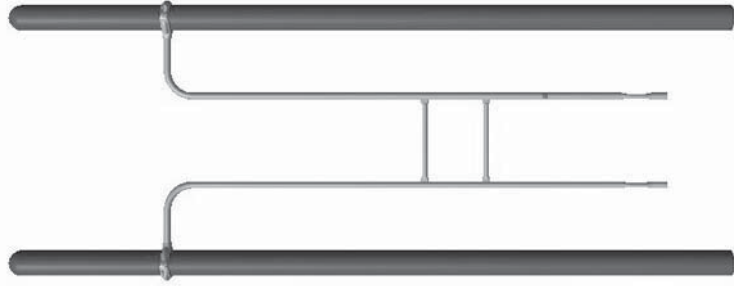
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM5950	12" (305 mm)	25 lbs. (11 kg)
ZZPM5960	24" (610 mm)	28 lbs. (13 kg)
ZZPM5970	36" (915 mm)	26.2 lbs. (11,8 kg)

Installation Instructions

Playmakers® Models PM5950, PM5960, and PM5970

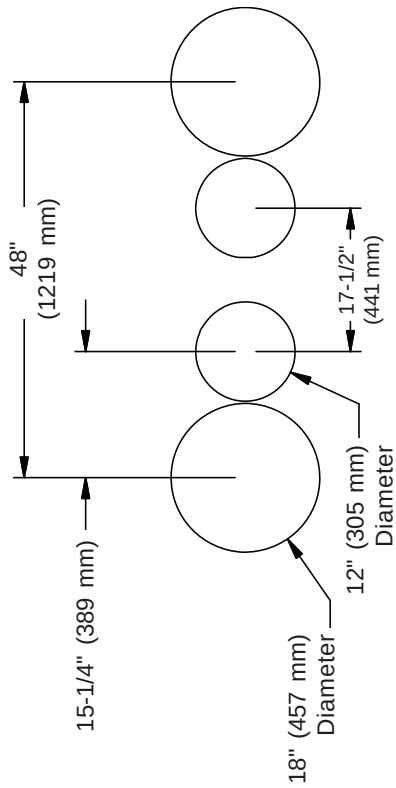
1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

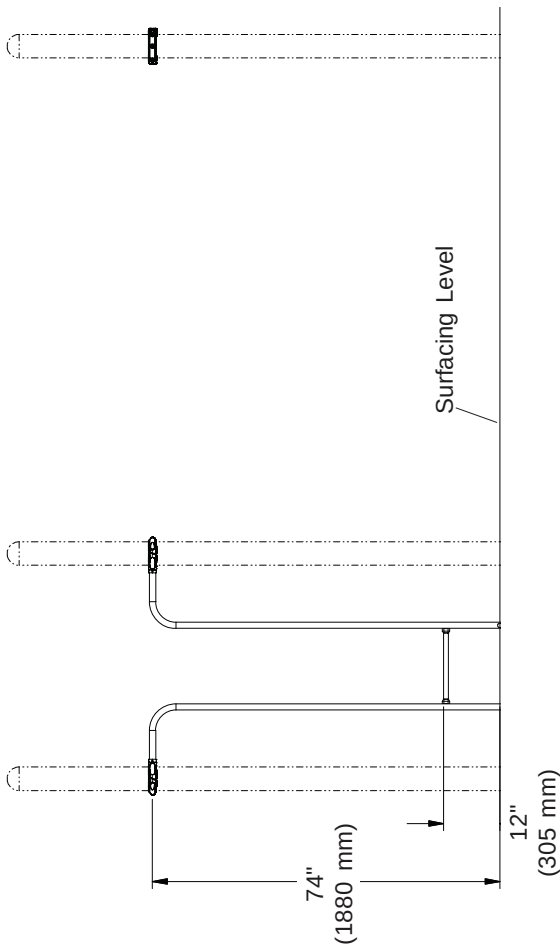
Recommended Crew: One (1) adult
 Installation Time: 1.5 installation-hours
 Weight: (refer to table)
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Footing Diagram
All Models



Elevation View

Elevation Views
PM5950

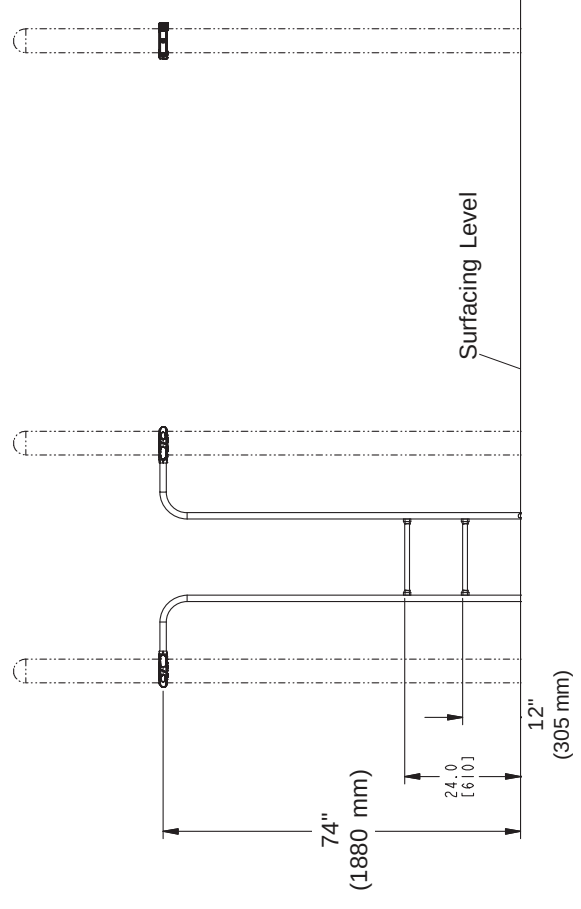


Installation Instructions

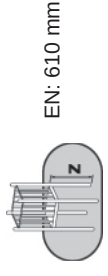
Top View



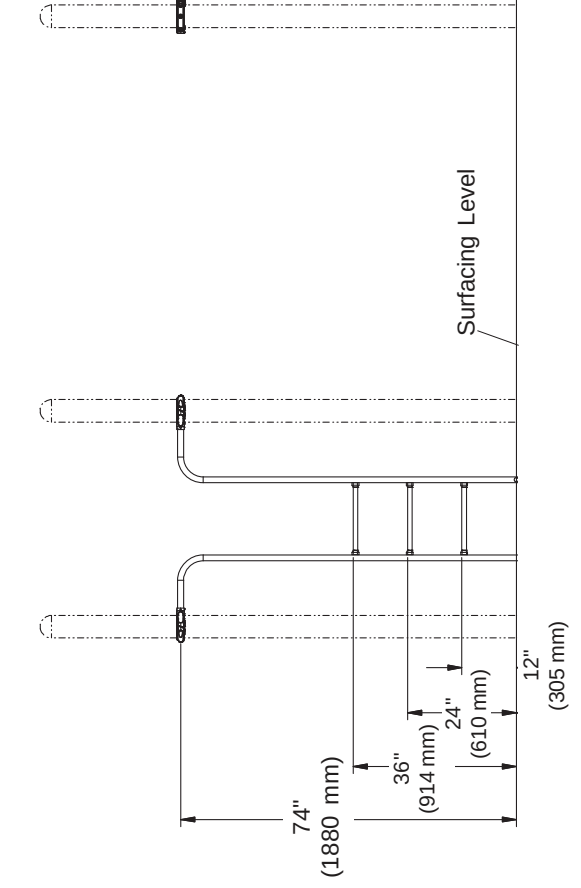
Top View



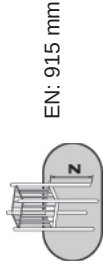
Elevation Views
PM5960



EN: 610 mm



Elevation Views
PM5970

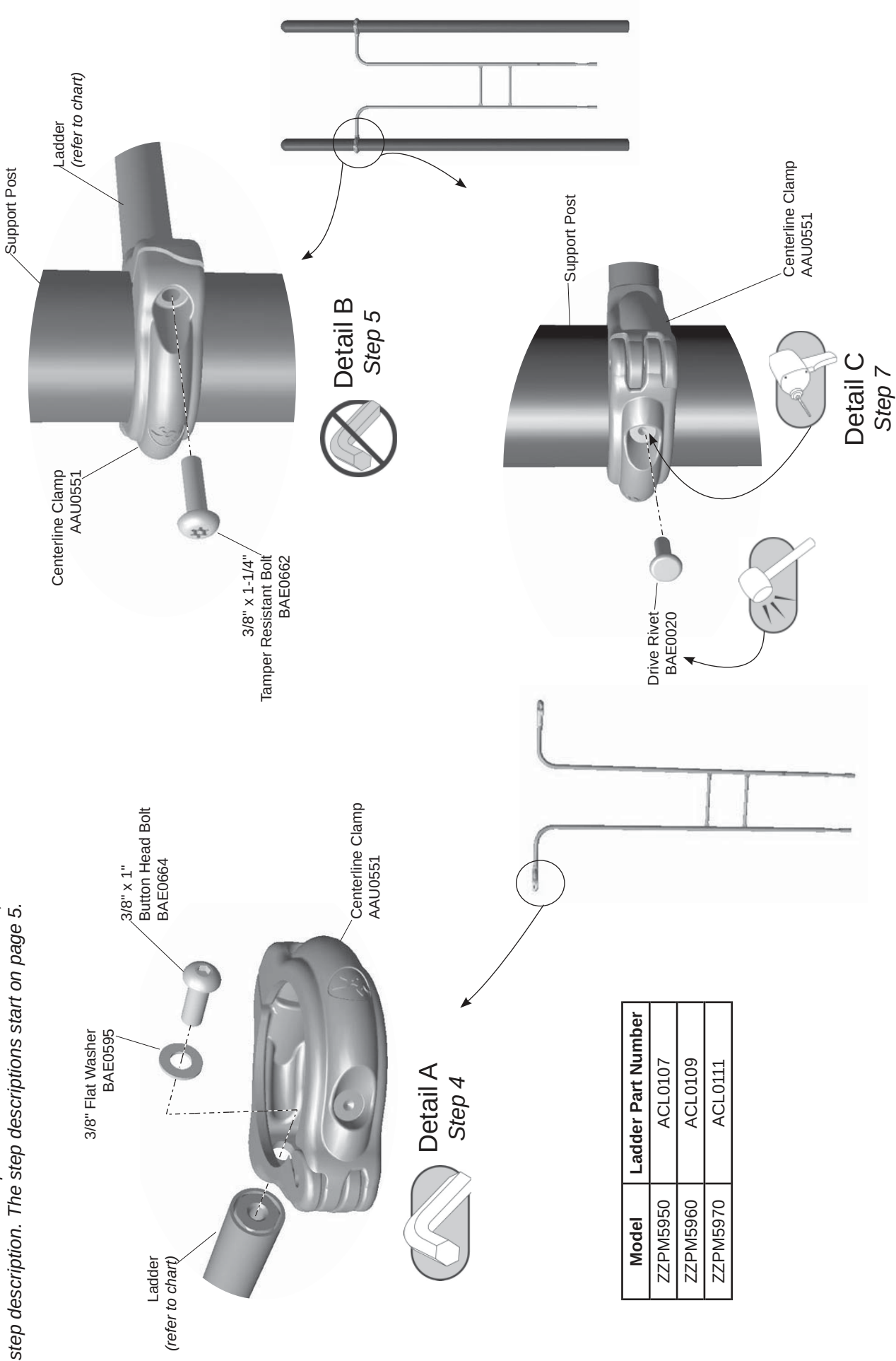


EN: 915 mm



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2



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⚠ WARNING

Attention Owner

The Horizontal and Wave Ladders are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

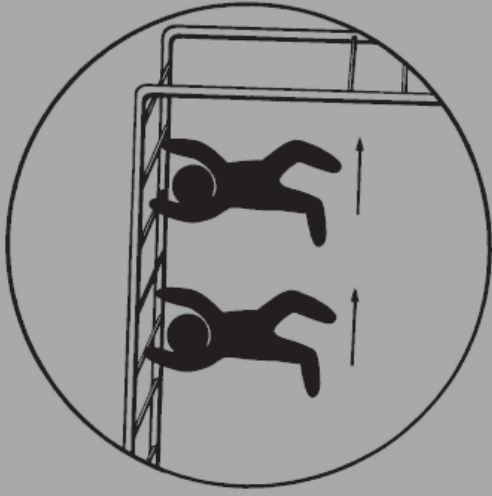
Improper play and behavior on the Horizontal Ladder can result in serious accidents. The following rules for the use of the Horizontal Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Ladders are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the hand rung assembly.
- Users must move in same direction across the length of the top Horizontal Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

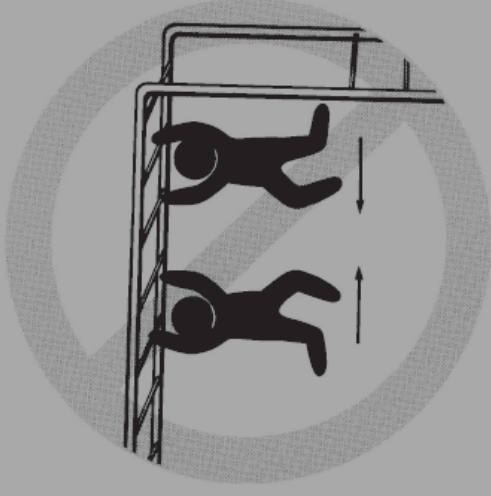
- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Ladder in accordance with ASTM specification F1292 appropriate for the fall height of the Horizontal Ladder.
- Review and familiarize warning document supplied with each horizontal ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder

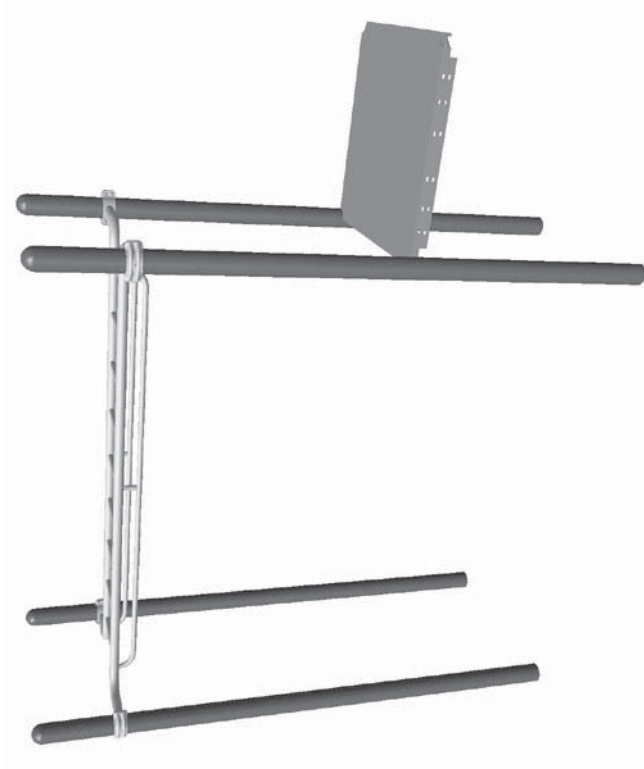


Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Installation Instructions Playmakers® Model PM6936 Horizontal Ladder with Parallel Bars

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 136.22 lbs. (61.9 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

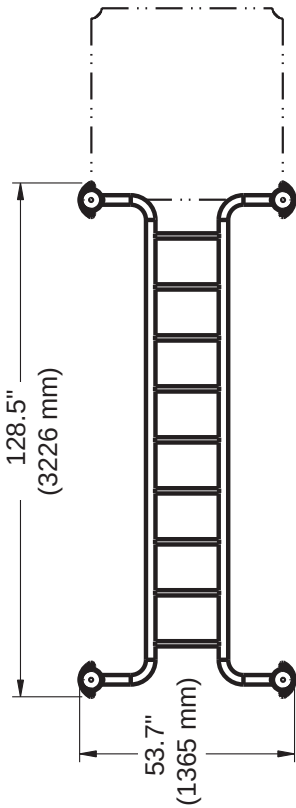


Assembly View

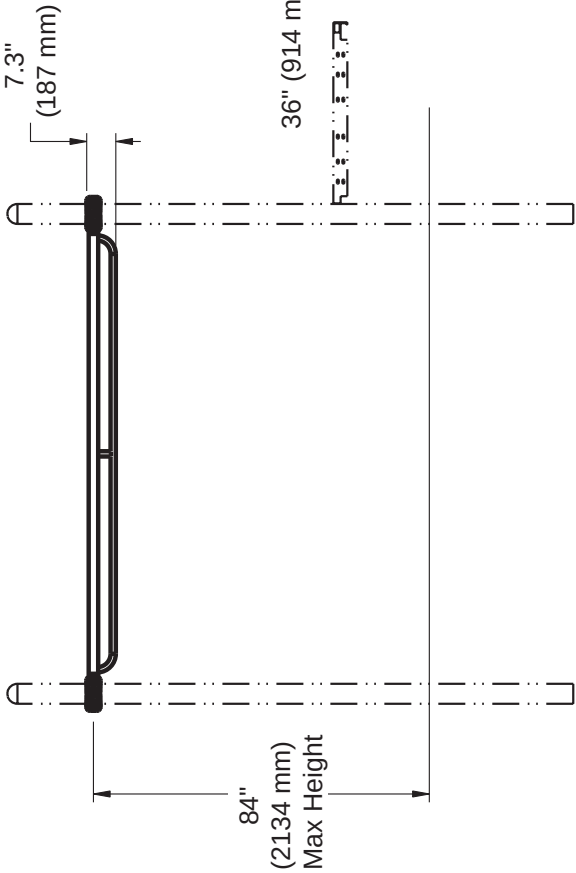
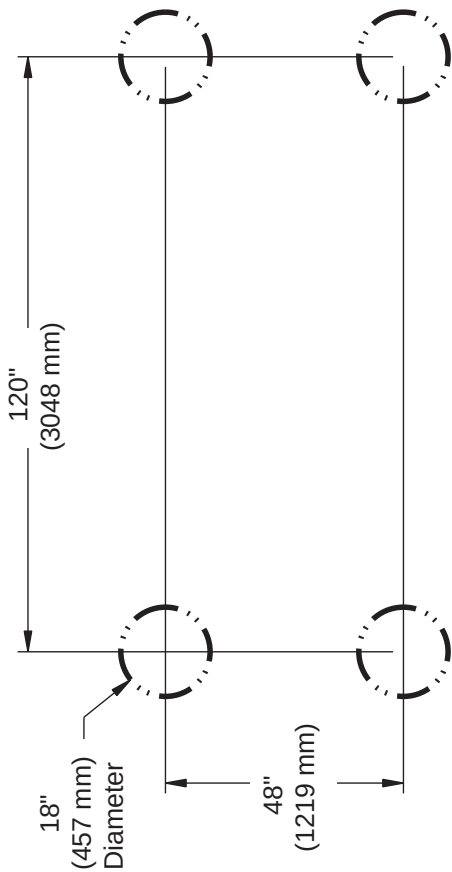
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

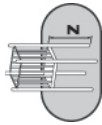
Top View



Footing Diagram



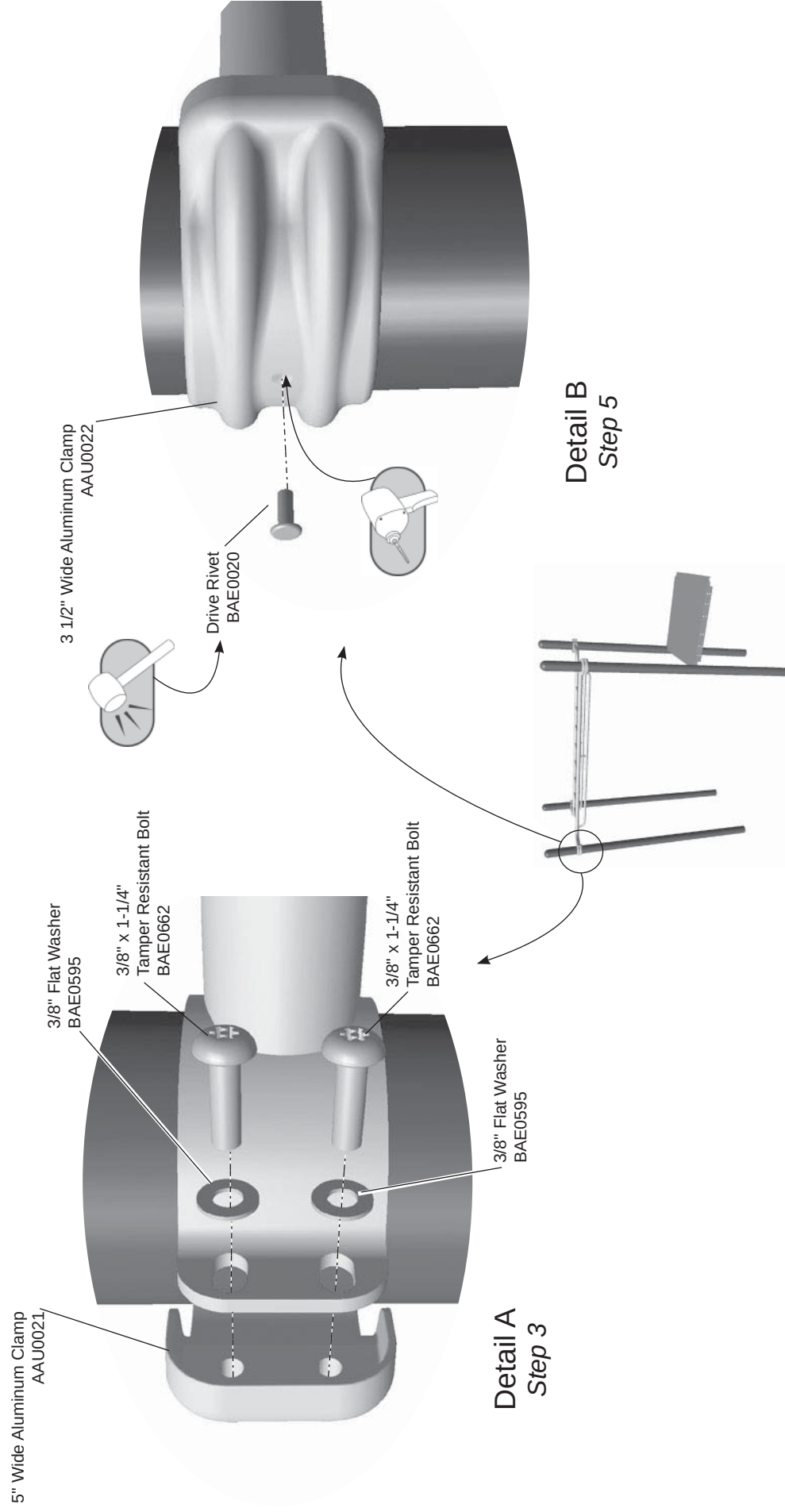
Elevation Views



EN: 2134 mm
Max Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Install Horizontal Ladder.

___ **Step 3:** Install Horizontal Ladder. See **Detail A**. Select the horizontal Ladder, (4) four clamps, and the appropriate hardware. There are (4) four connections per clamp, (16) sixteen total connections. Raise the horizontal ladder onto the support posts at the desired height. See **Elevation Views**. Align clamps with the ladder and attach as shown.

Final Details.

___ **Step 4:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

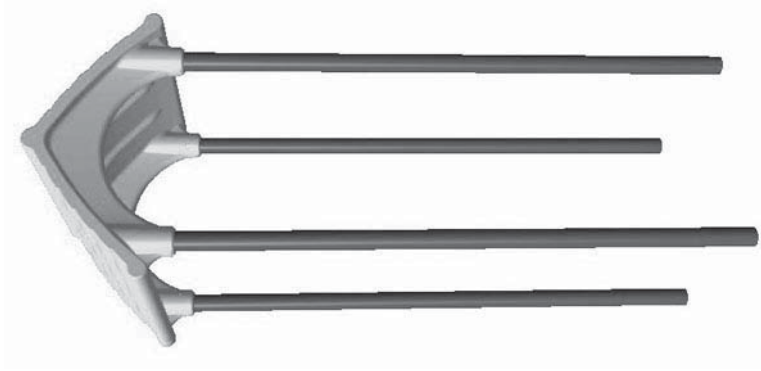
Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 5:** Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM6936 - HORIZONTAL LADDER WITH PARALLEL BARS			
PART NO.	DESCRIPTION	QTY.	
AAU0021	CLAMP - 5" WIDE ALUMINUM	4	
AOH0030	LADDER - 120" HORIZONTAL LADDER w/RAILS (PM)	1	
BAD0085	THREAD LOCKING ADHESIVE	1	
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4	
BAE0595	WASHER - 3/8" SAE FLAT	16	
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTNT w/TORX DRIVE	16	

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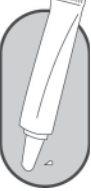
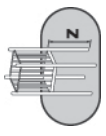


Assembly View

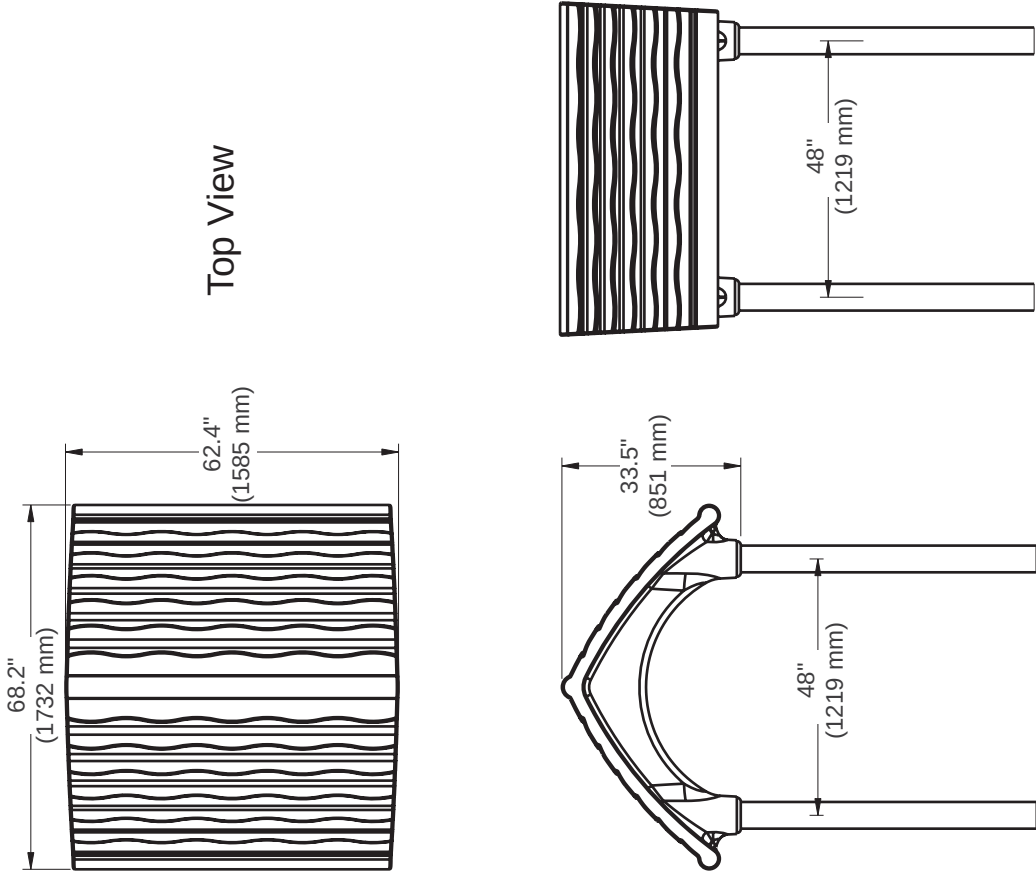
Installation Instructions Playmakers® Model PM9846 Cabana Roof

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

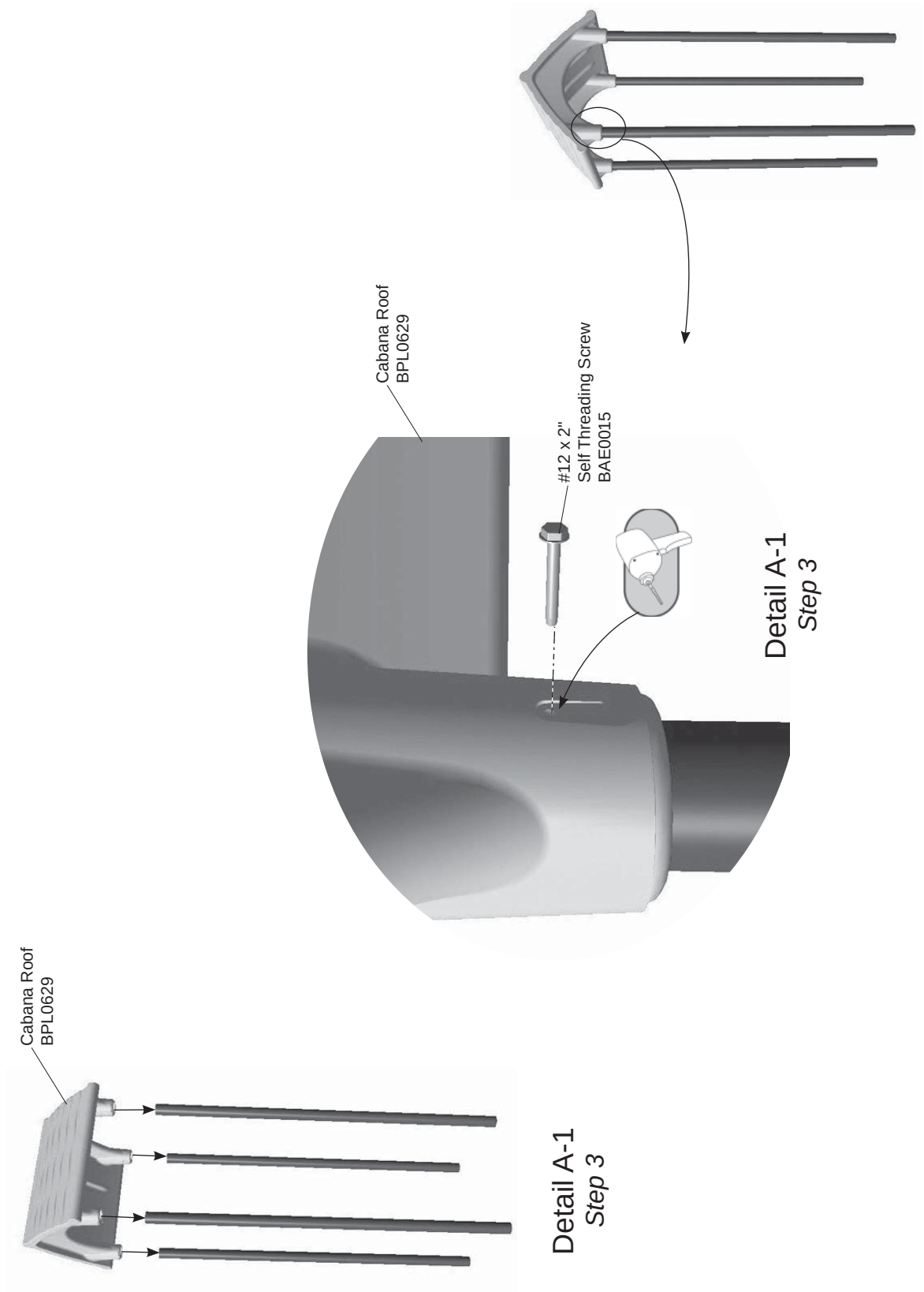


Elevation Views
ZZPM9846



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

___Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

___Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

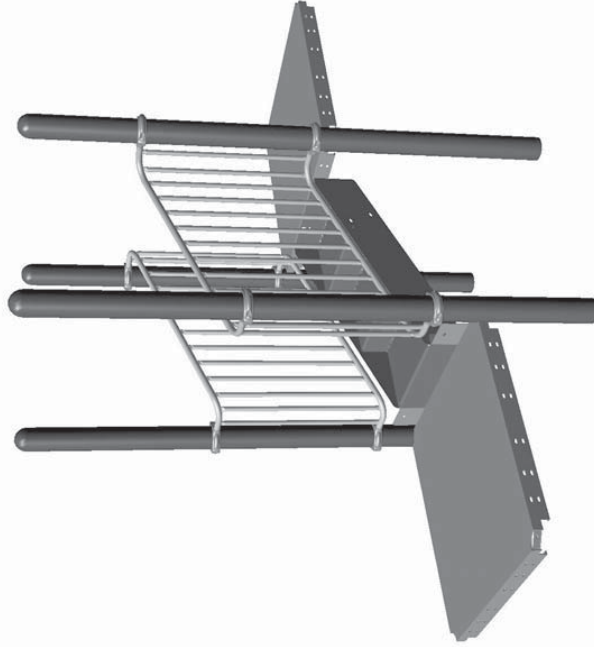
Bill of Materials

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Assembly View (24" (610 mm) shown)

Model	Rise Height	Weight
ZZPM9168	12" (305 mm)	106 lbs. (48.2 kg)
ZZPM9170	24" (610 mm)	228 lbs. (103.6 kg)
ZZPM9177	36" (915 mm)	338 lbs. (153.6 kg)

Installation Instructions

Playmakers® Models PM9168, 9170, 9177

Deck to Deck Accessible Tiered Platforms

12", 24", 36" (305, 610, 914 mm) Rise Height

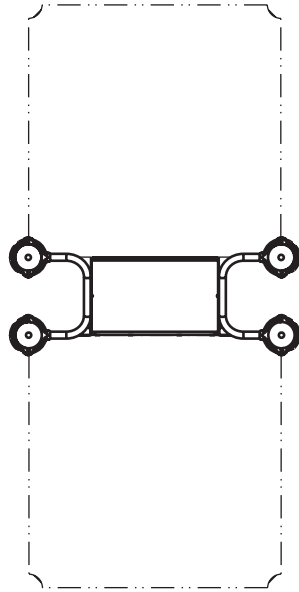
Installation Preparation

Recommended Crew: Two - Three (2-3) adults
 Installation Time: 2 man-hours
 Weight: refer to table
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

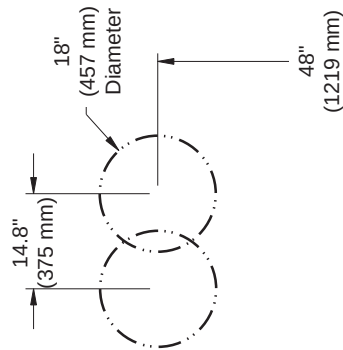
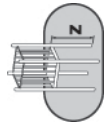
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Hammer
	Drill		Critical Fall Height

Installation Instructions

Top View



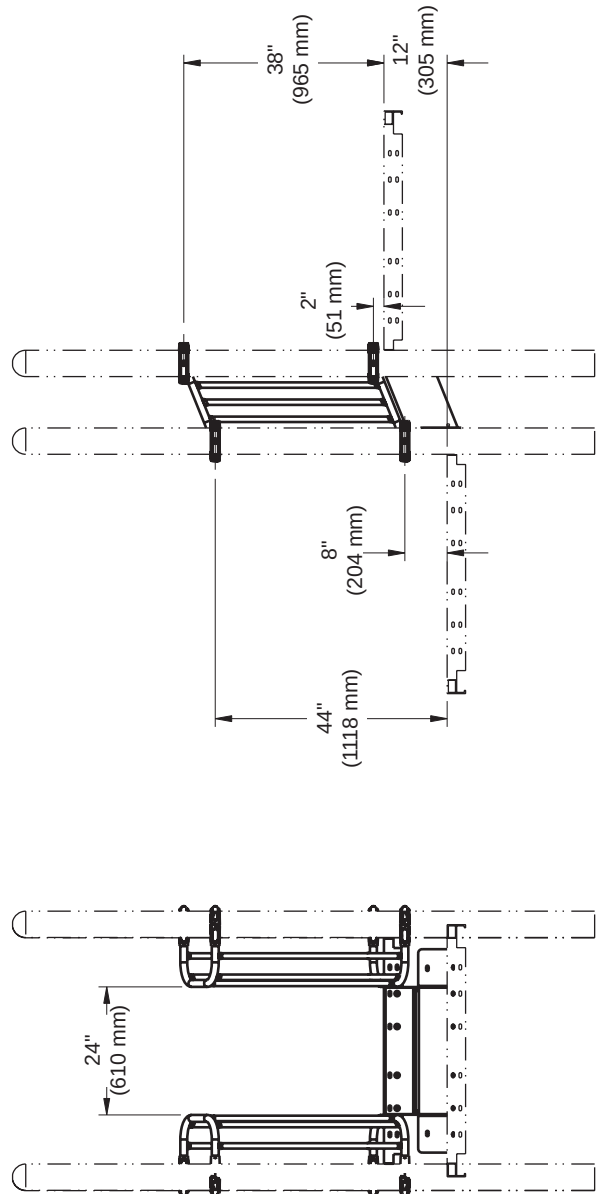
EN: Upper deck height



48" (1219 mm)



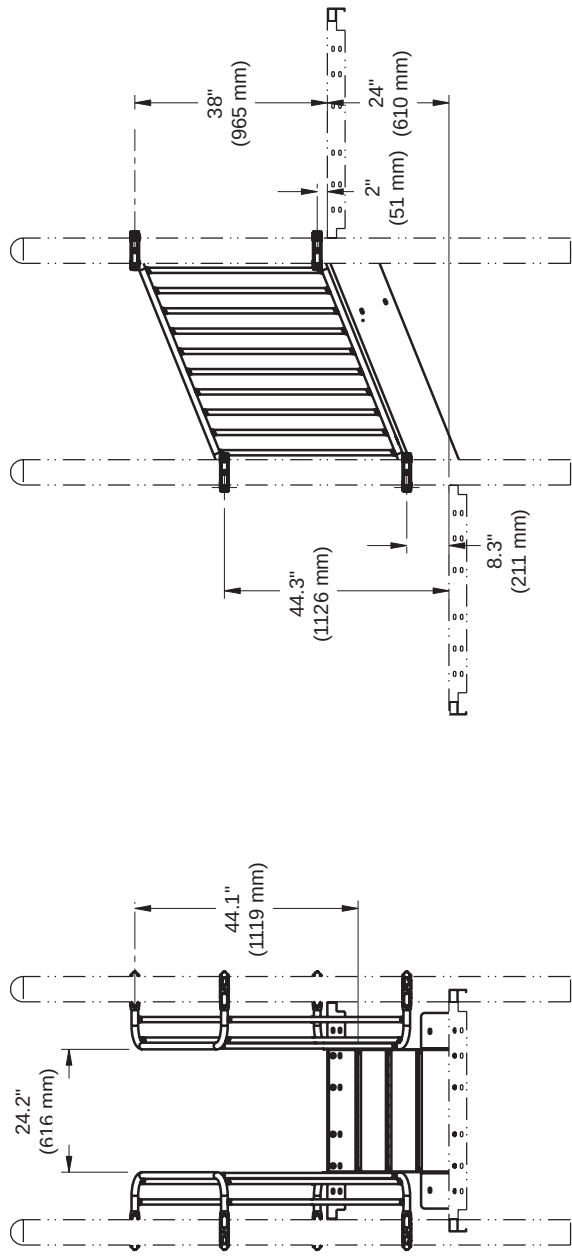
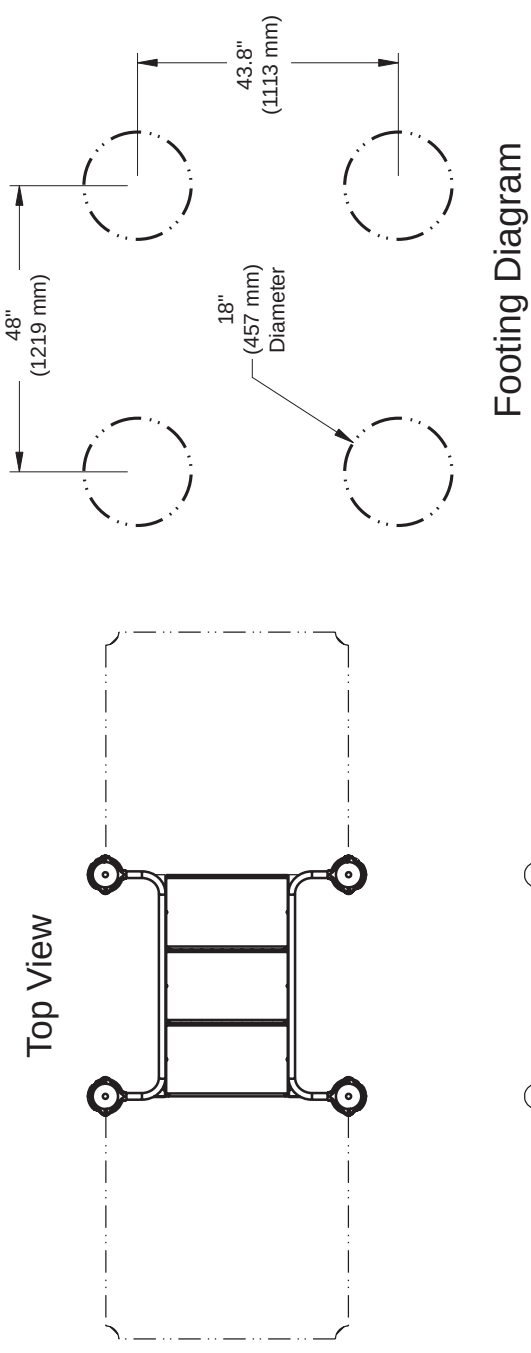
Footing Diagram



Elevation Views (12" (305 mm) rise)



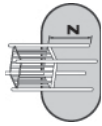
Installation Instructions



Elevation Views (24" (610 mm) rise)

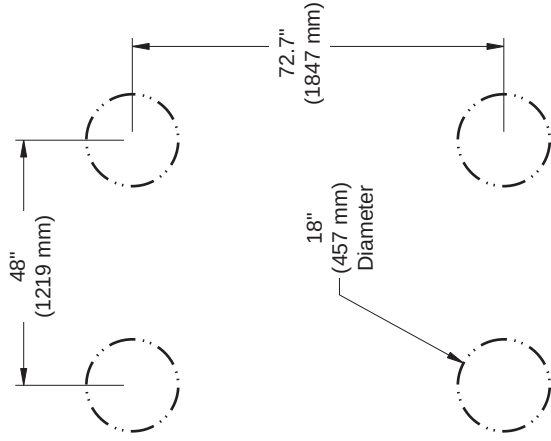
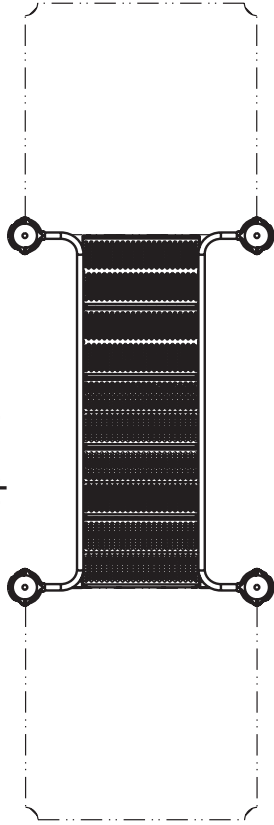


Installation Instructions

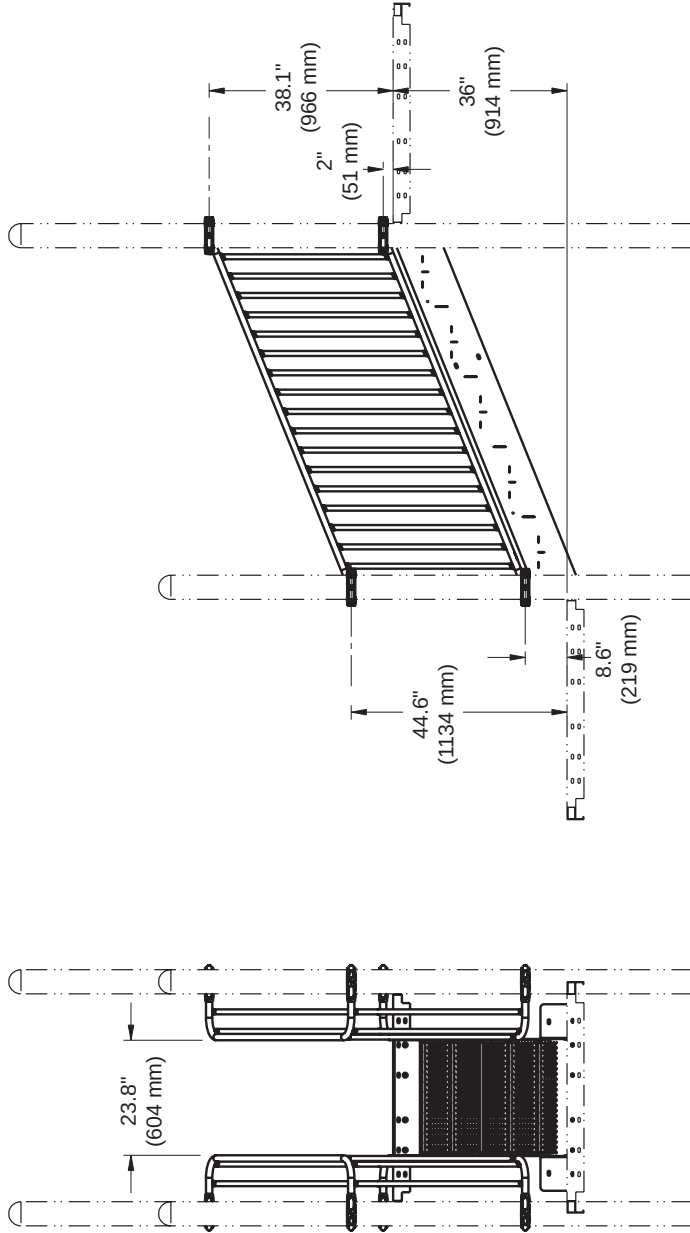


EN: Upper deck height

Top View



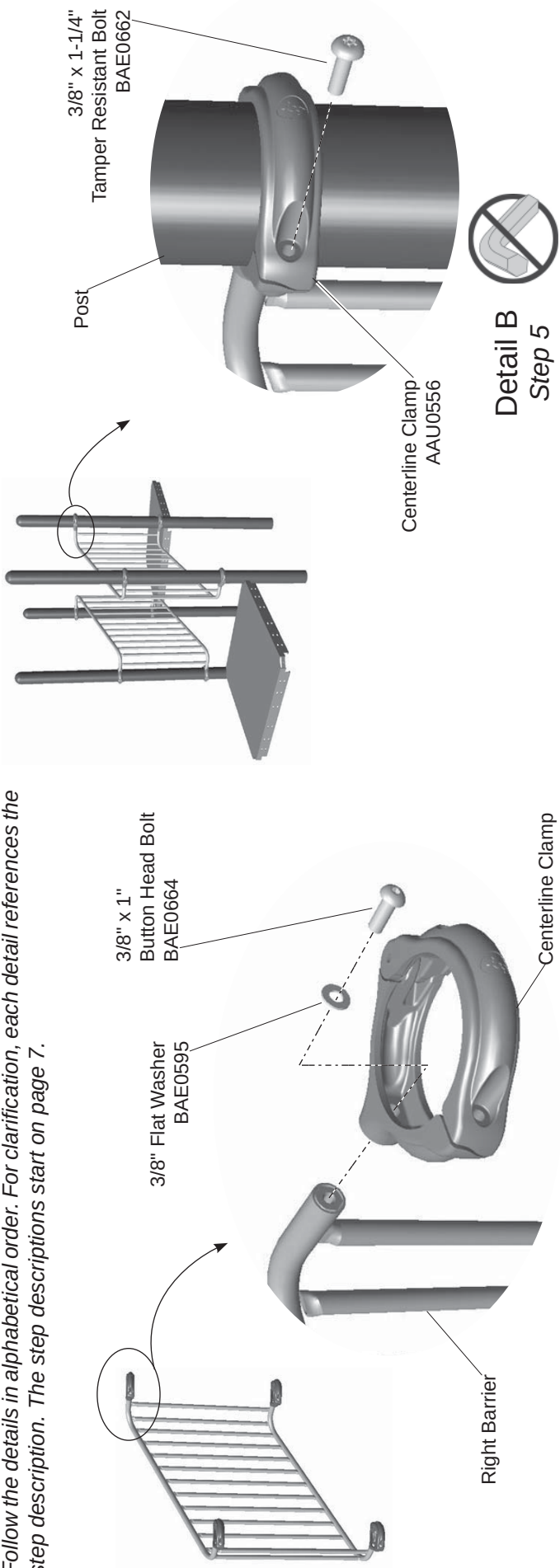
Footing Diagram



Elevation Views (36" (914 mm) rise)

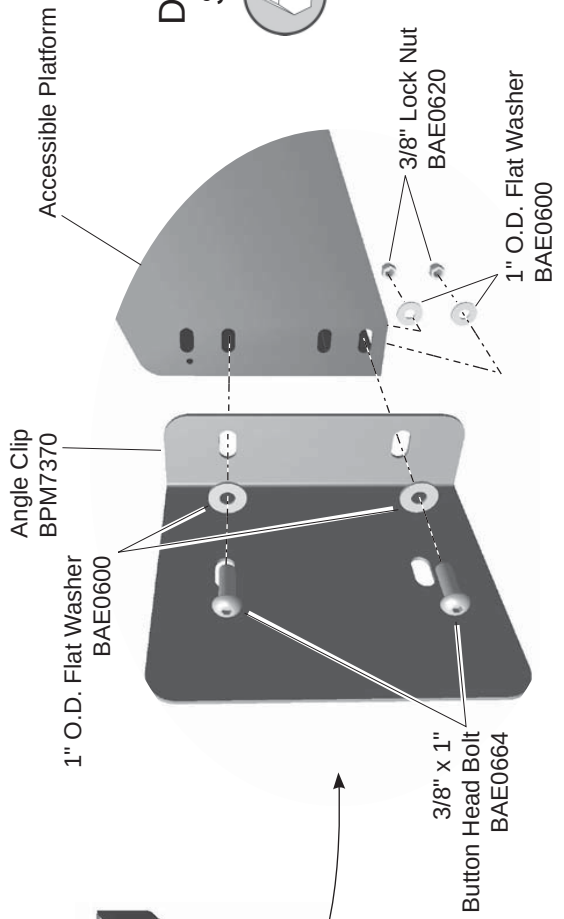
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM7305
ZZPM9170	AEN0489 / AEN0490	BPM7315
ZZPM9177	AEN0491 / AEN0492	BPM7325

Installation Instructions

**Detail D
Step 7**

Upper Deck

3/8" Lock Nut
BAE0620

1" O.D. Flat Washer
BAE0600

3/8" x 1"
Button Head Bolt
BAE0664

Accessible Platform

**Detail E
Step 8**

Lower Deck

3/8" Lock Nut
BAE0620

1" O.D. Flat Washer
BAE0600

3/8" x 1"
Button Head Bolt
BAE0664

Accessible Platform

Step 9

**Detail F
Step 10**

Centerline Clamp
AAU0551

Drive Rivet
BAE0020

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Determine location of the platform by referring to the master layout drawing.

___ **Step 4:** Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

___ **Step 5:** Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

___ **Step 6:** Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

___ **Step 7:** Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

___ **Step 8:** Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

___ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

___ **Step 10:** Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7305	STAIR - 12" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7325	STAIR - 36" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7315	STAIR - 24" ACCESS COATED PERF w/SM HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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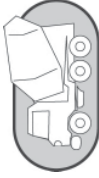
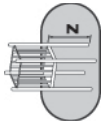
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

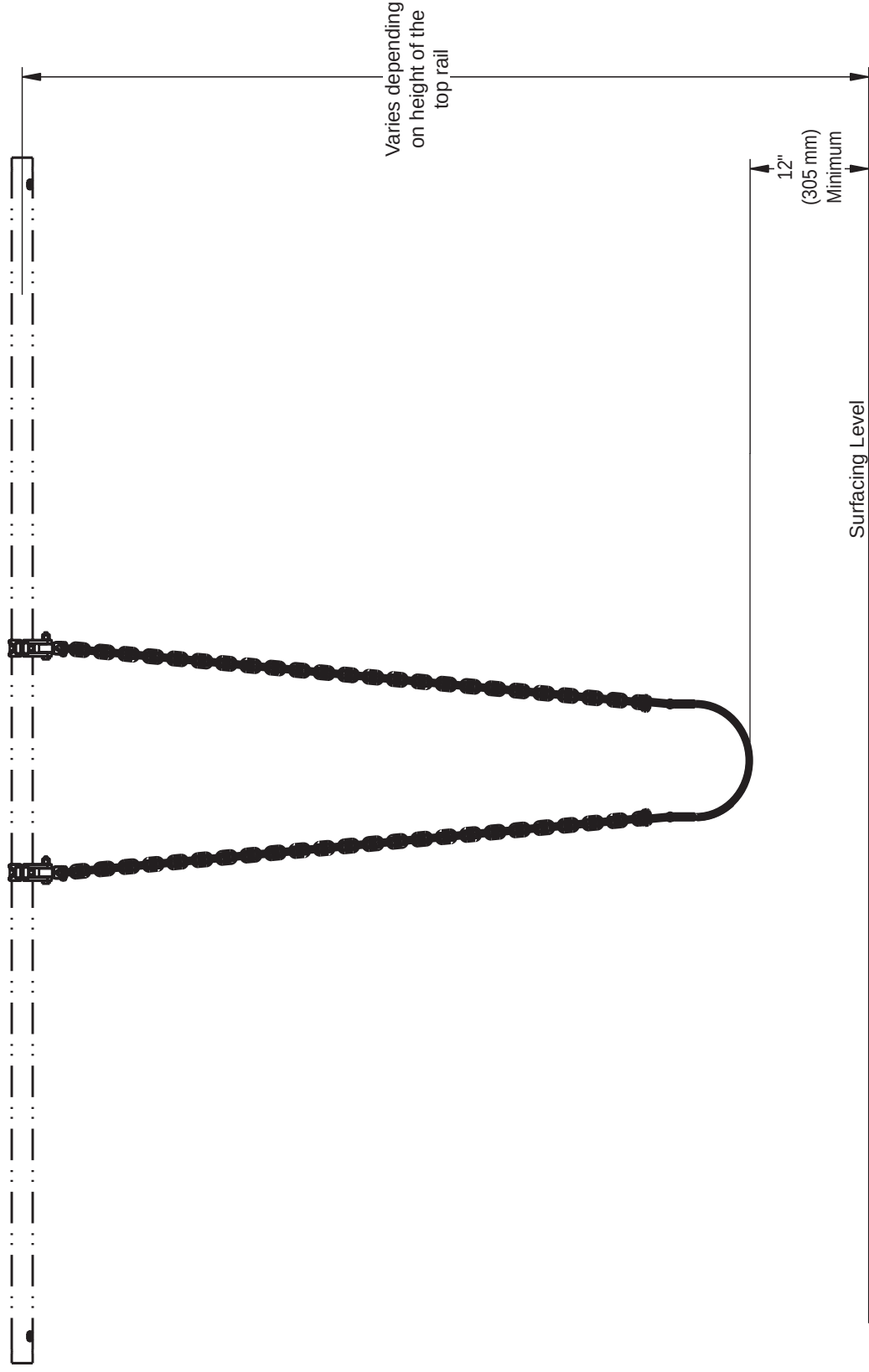
Installation Instructions Playworld Systems® Models XX0260, XX0261, & XX0324 Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

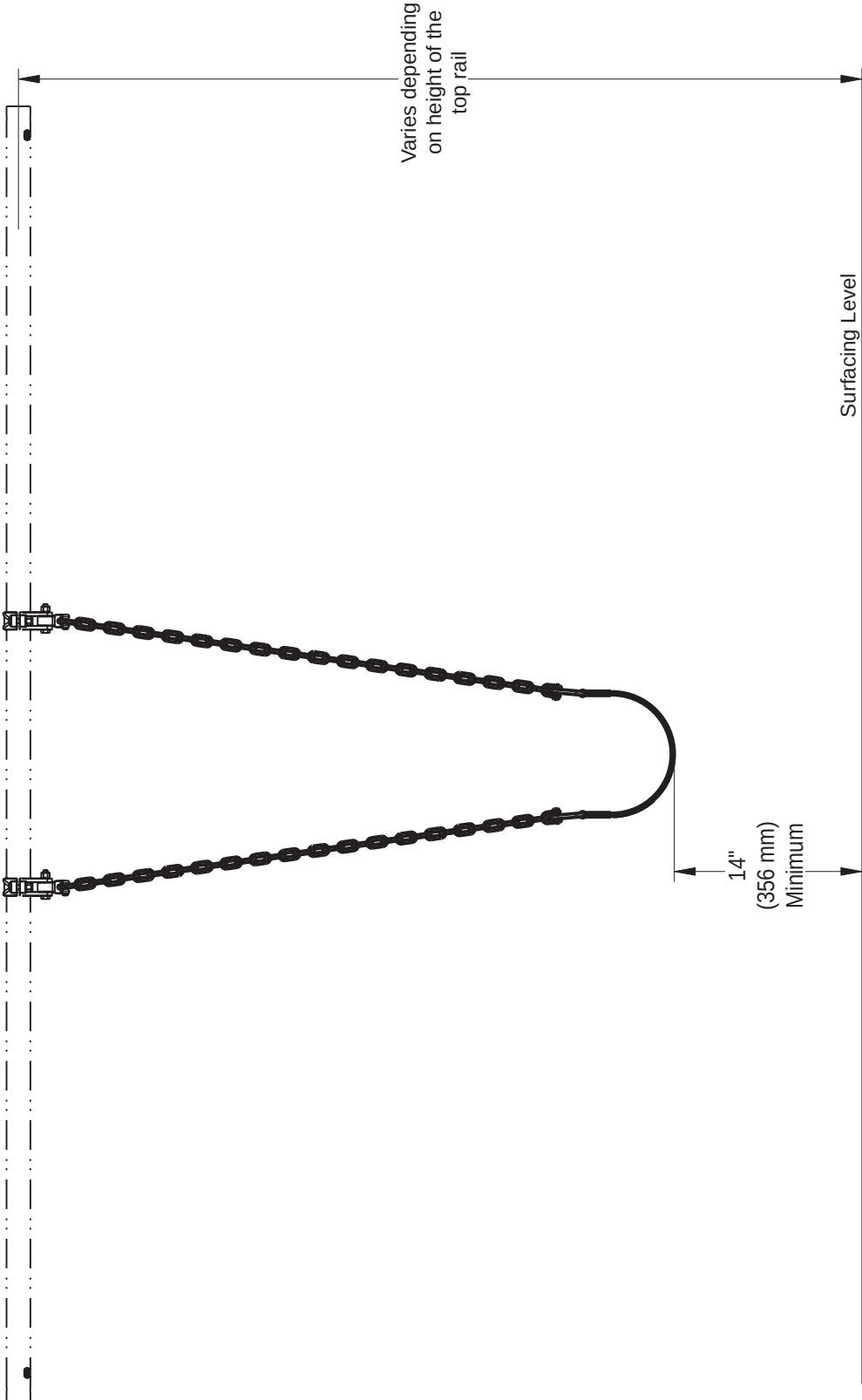


Elevation View (ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



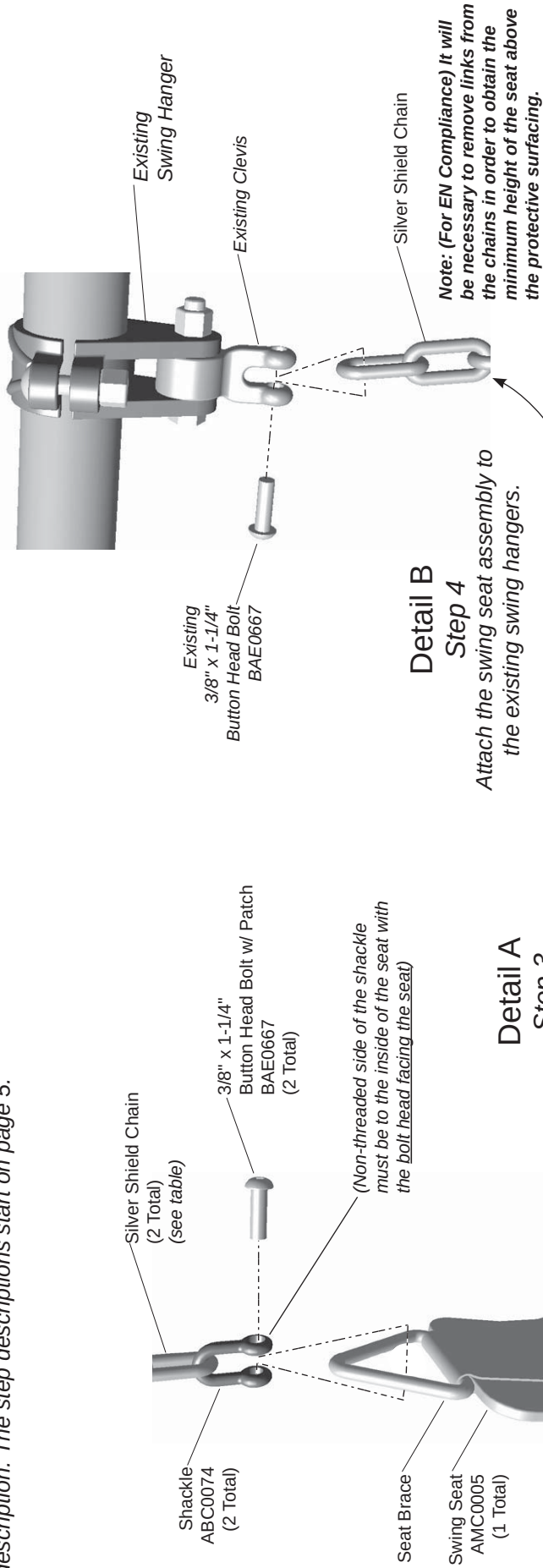
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B Step 4

Attach the swing seat assembly to the existing swing hangers.

Detail A Step 3

Attach the swing seat to the swing chains.

Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

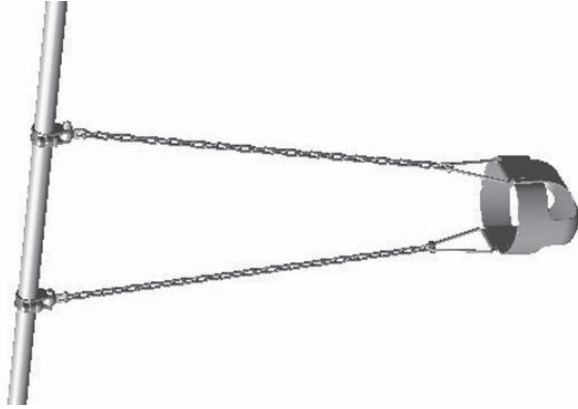
Date: ____ / ____ / ____





PLAYWORLD SYSTEMS®

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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

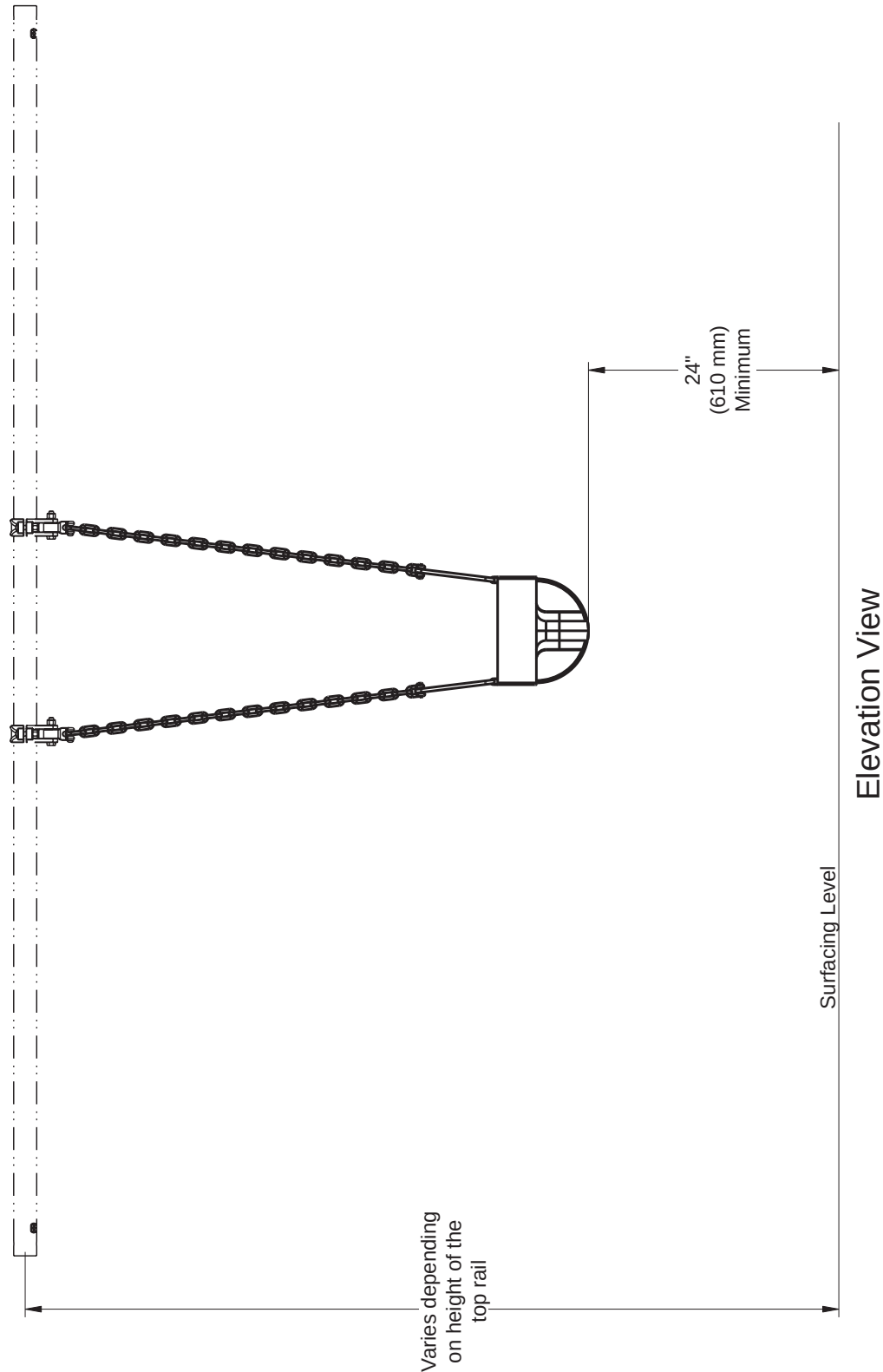
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions

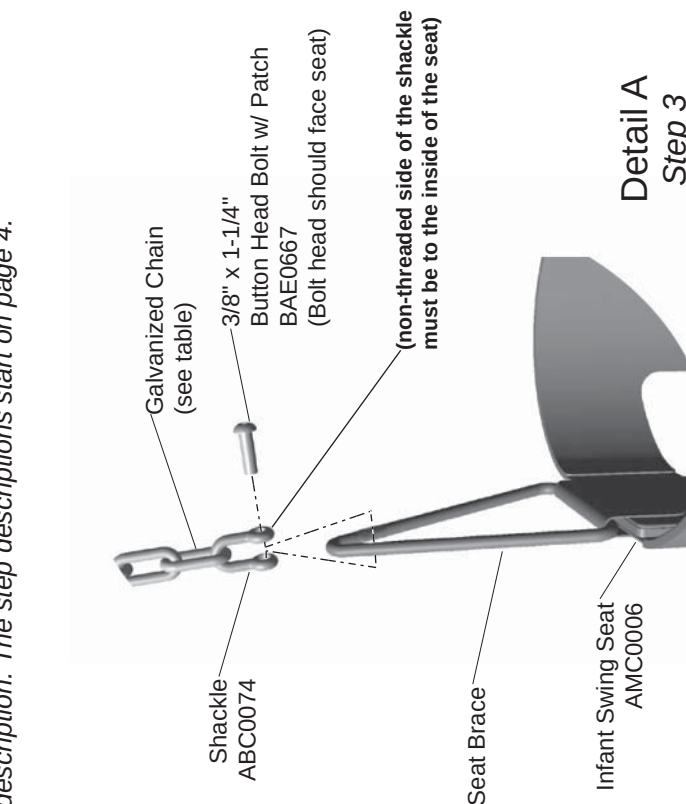


Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

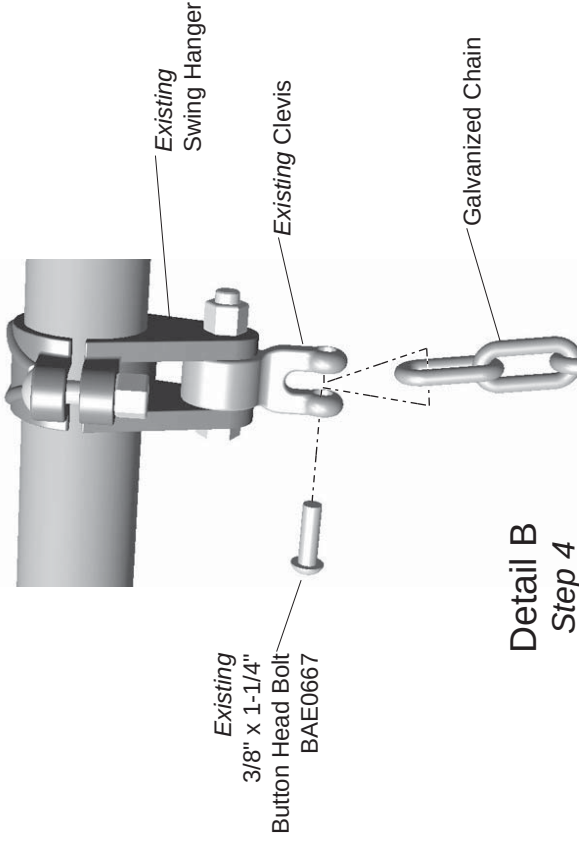


Installation Instructions

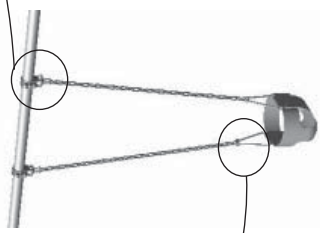
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 3



Detail B
Step 4



Reference A/B



Step 5

Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

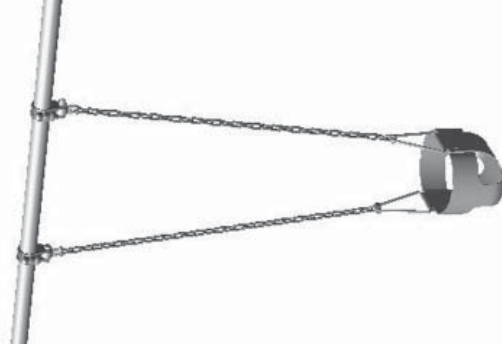
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Galvanized Chain



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

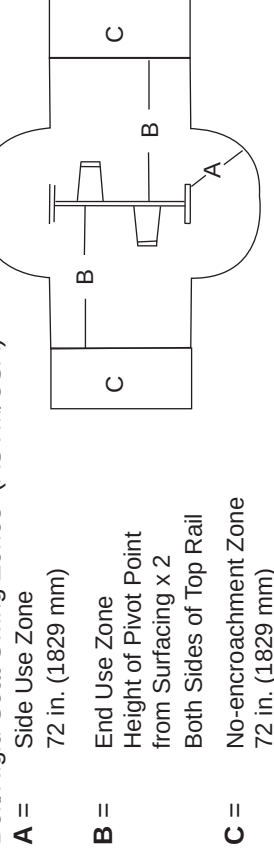
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

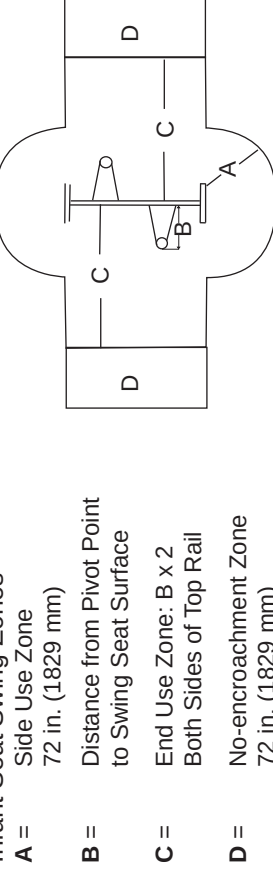
Belt/Rigid Seat Swing Zones (ASTM/CSA)



- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)

- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)

Installation Instructions

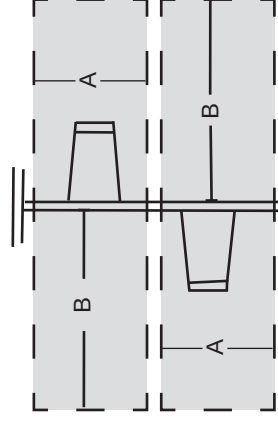
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

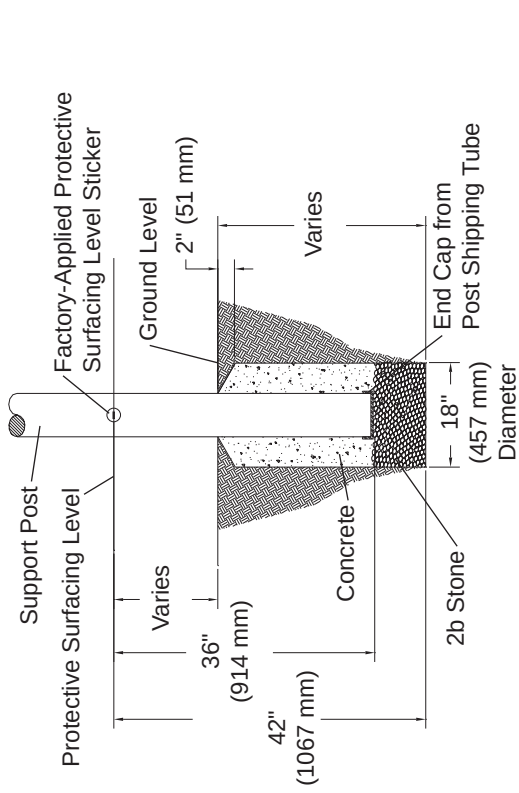
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

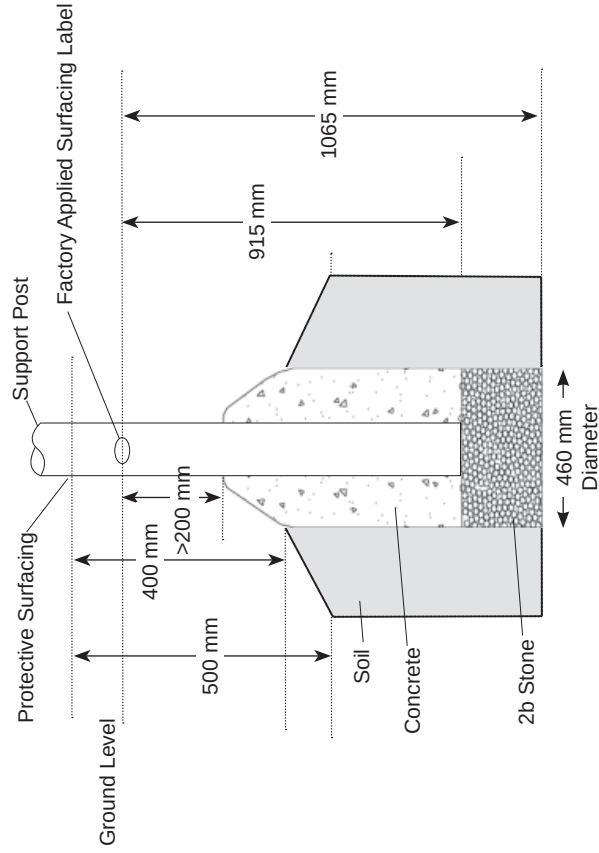
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

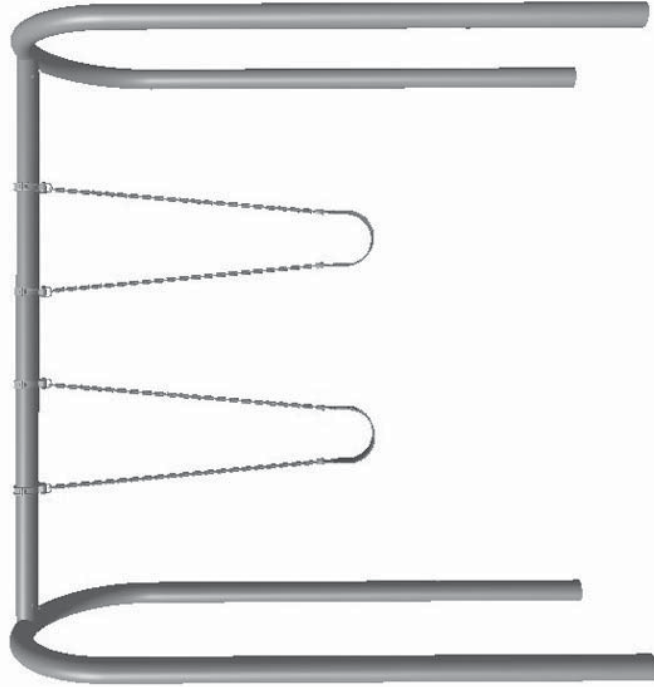
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



PLAYWORLD SYSTEMS®

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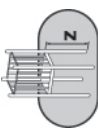
Assembly View (representative model)

Installation Instructions Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

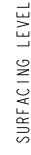
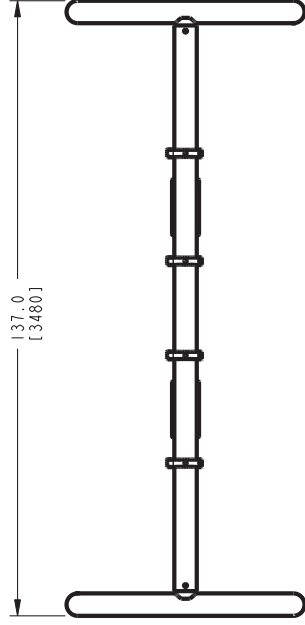
Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



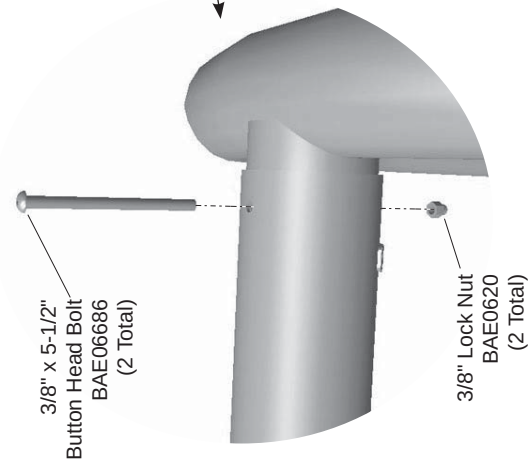
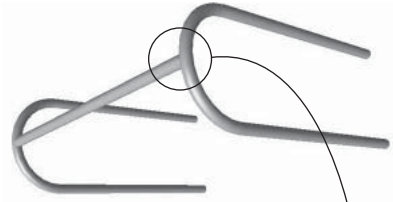
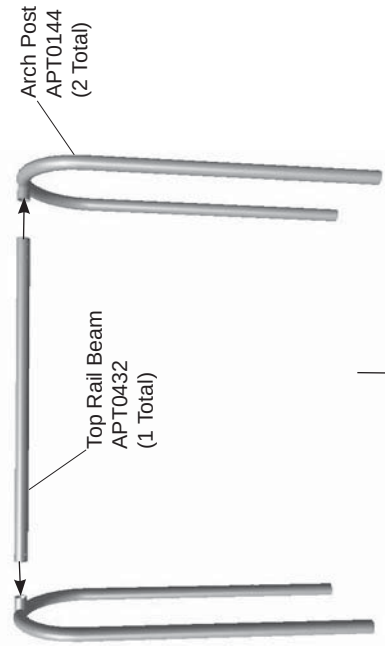
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above)



Elevation Views

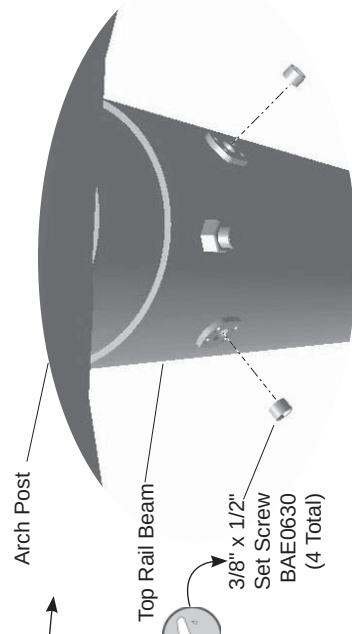
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the top rail to the arch posts.

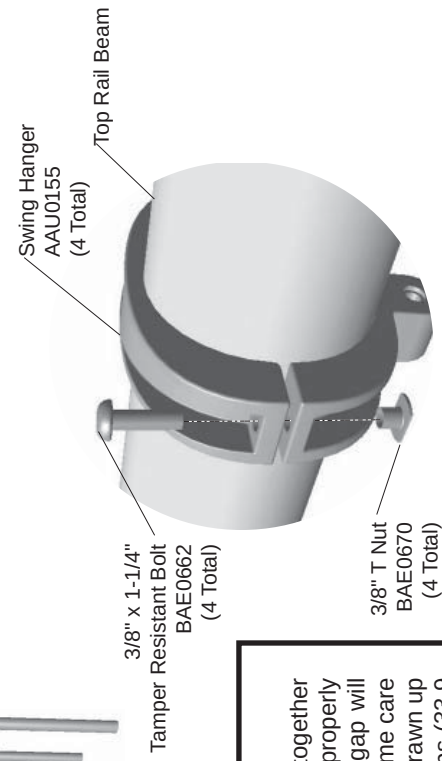


Underneath View



Detail B
Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Detail C
Step 8

Attach swing hangers to the top rail.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

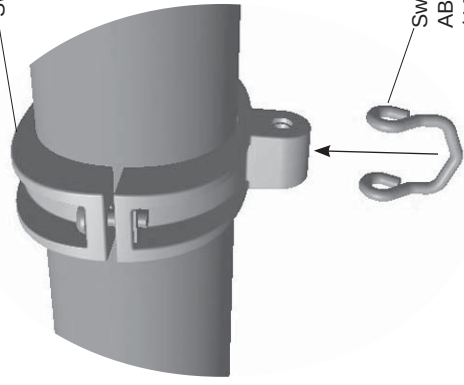
Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

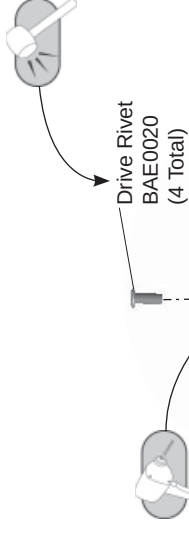
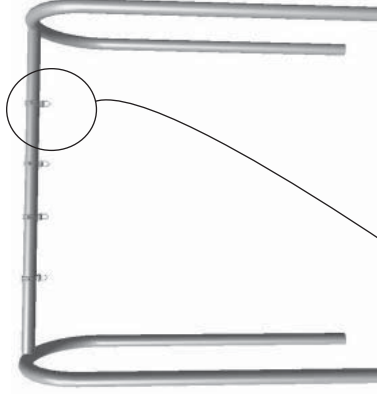


Installation Instructions

Swing Hanger

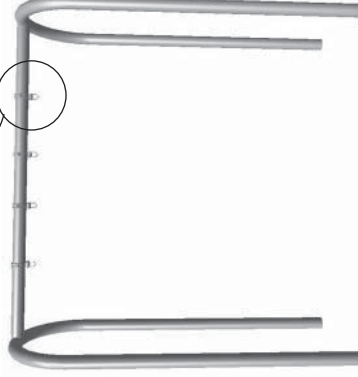


Swing Clevis Connector
ABC0704
(4 Total)



Drive Rivet
BAE0020
(4 Total)

Detail E
Step 12
*Secure the swing hangers
to the top rail.*



3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)

3/8" Thin Series Lock Nut
BAE0610
(4 Total)



Detail D
Step 9
Attach each clevis to a swing hanger.

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


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800-233-8404 or
570-522-9800 OUTSIDE U.S.

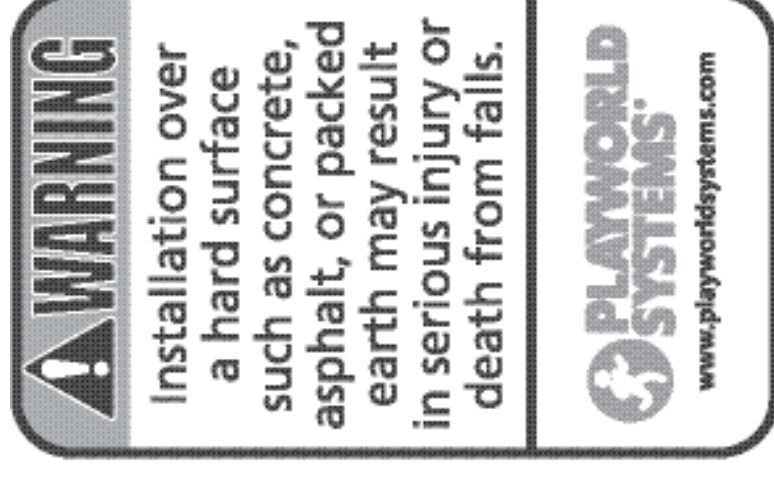
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
 - If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

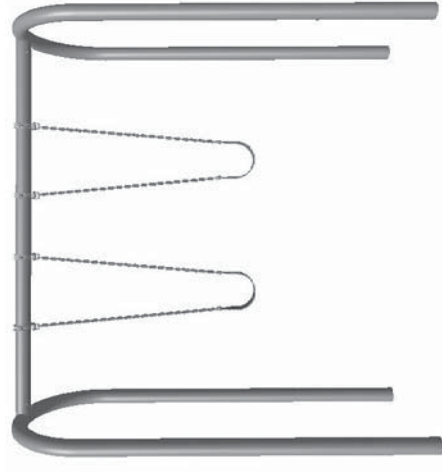
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing

8 ft. (2438 mm) Top Rail



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

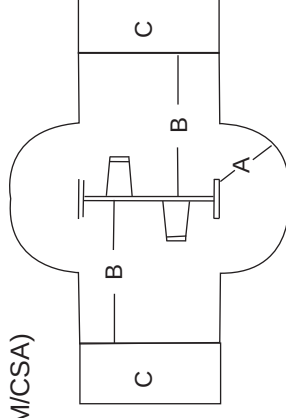
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2

C = Both Sides of Top Rail
No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

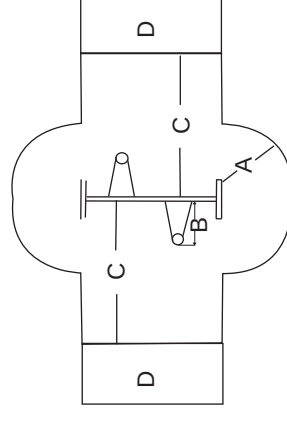
Infant Seat Swing Zones

A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

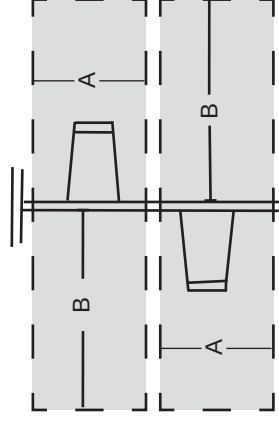
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

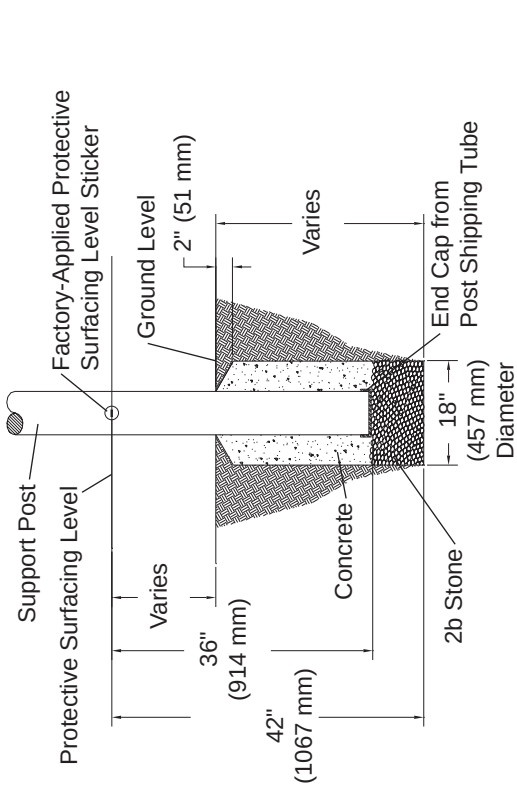
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

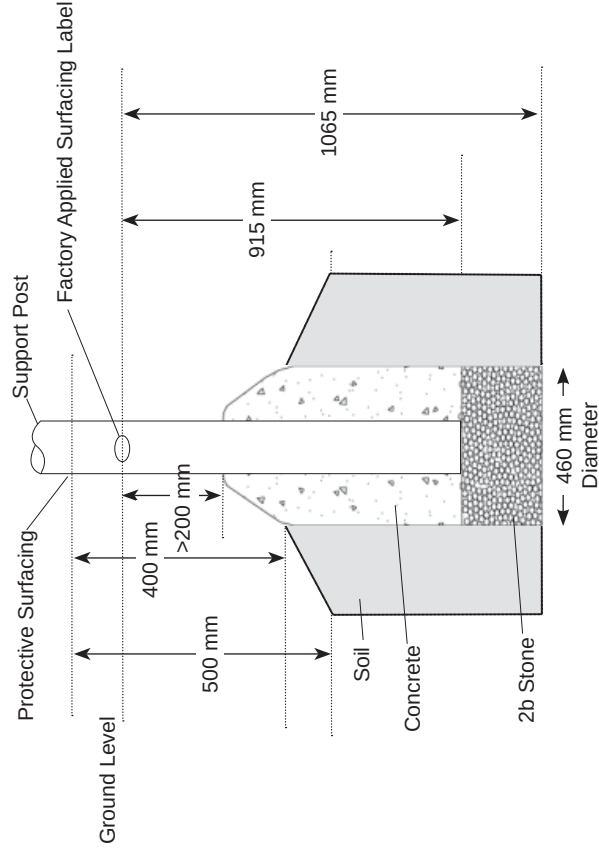
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

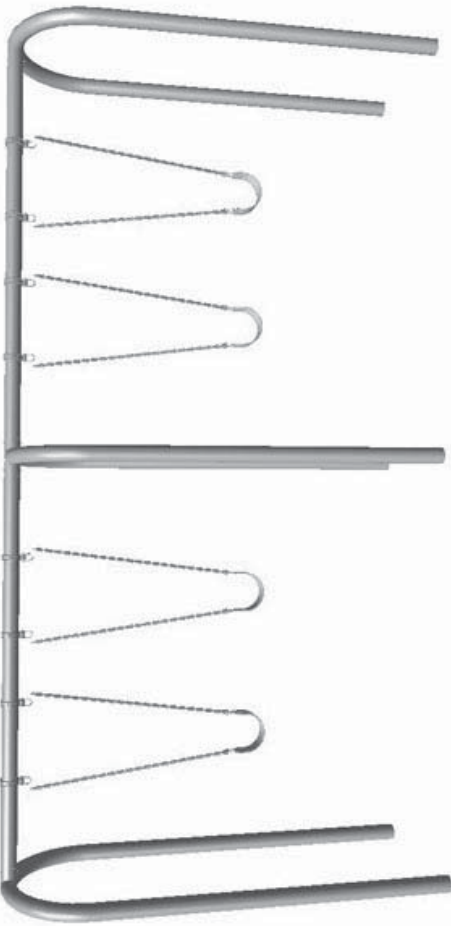
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems[®] Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

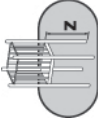


Assembly View

Installation Preparation

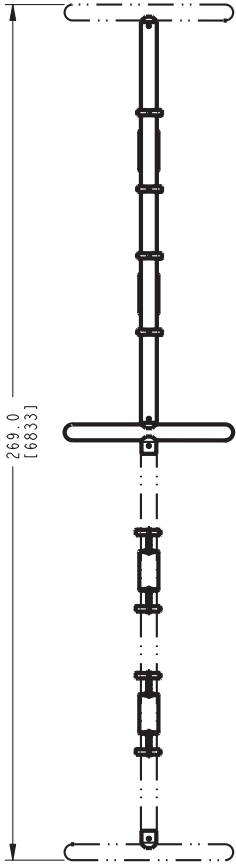
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

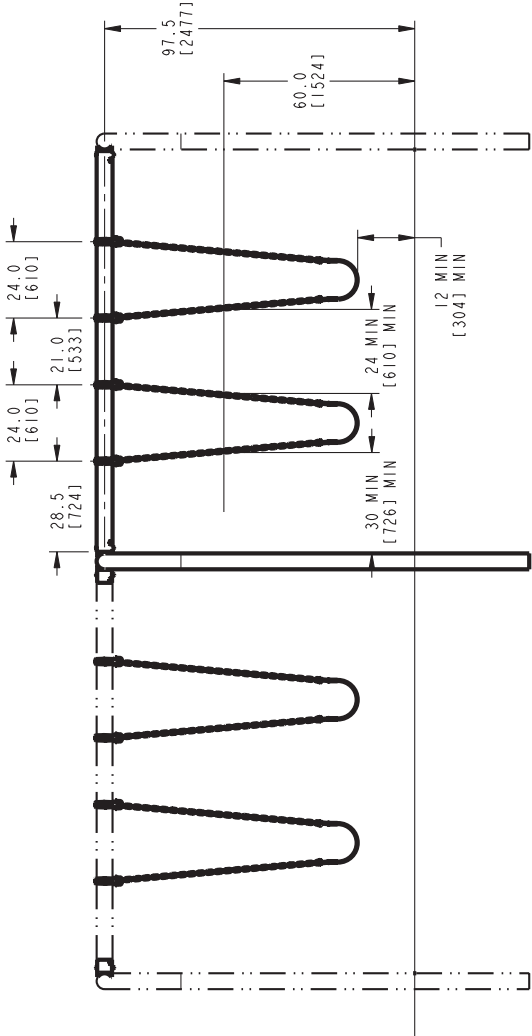
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

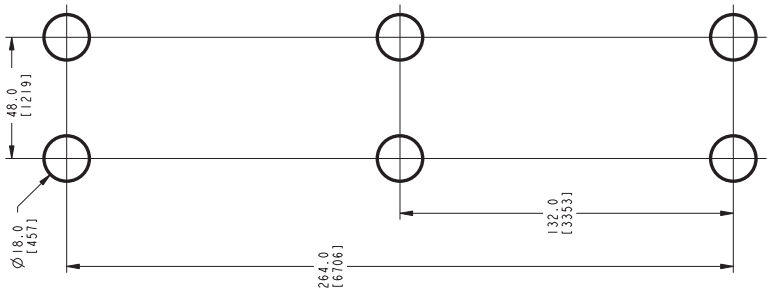
Top View



Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



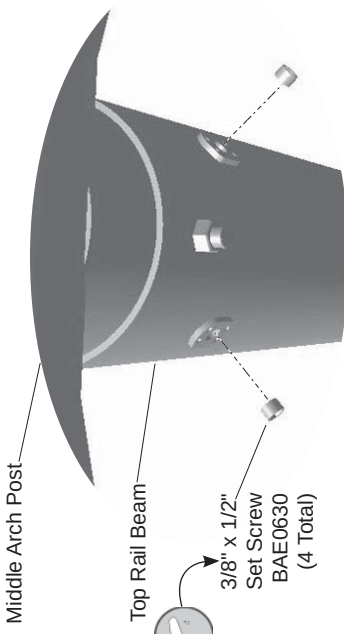
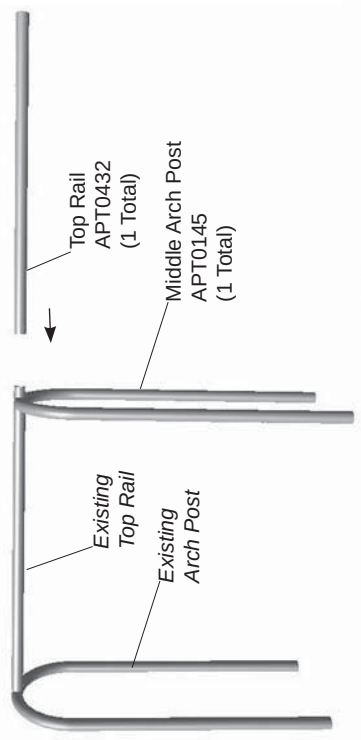
Elevation Views



Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

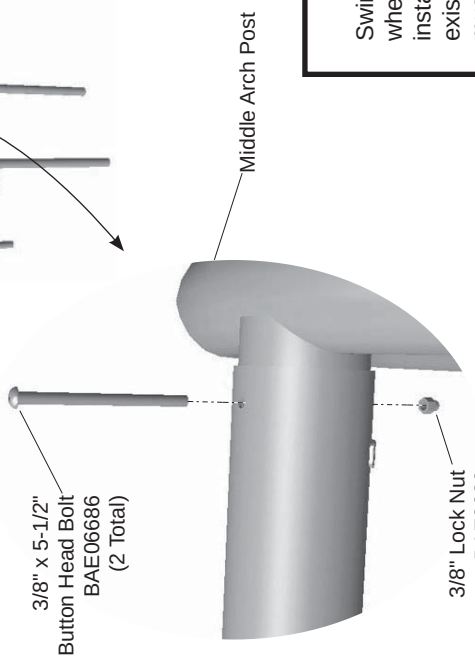


Underneath View

Detail B

Step 7

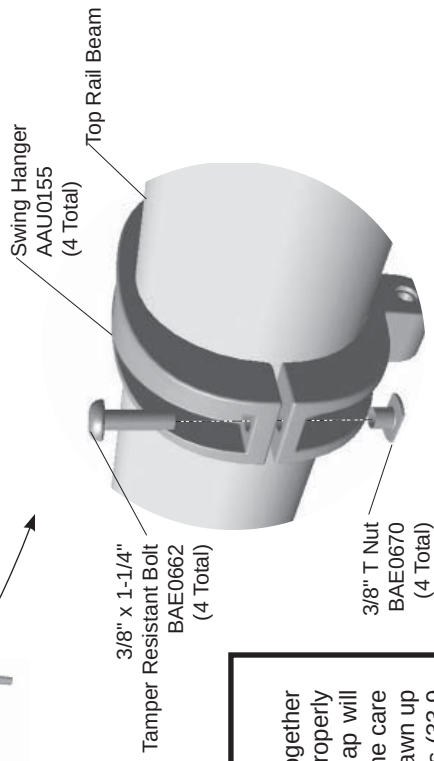
Secure the top rails to the middle arch post.



Detail A

Step 5

Attach both top rails (new and existing) to the middle arch support.



Detail C

Step 10

When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Attach swing hangers to the top rail.

CAUTION

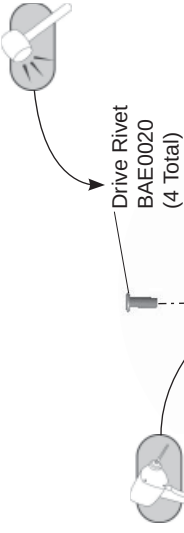
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

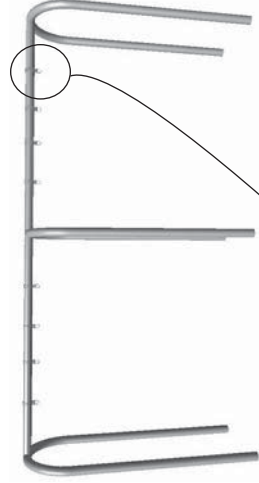
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

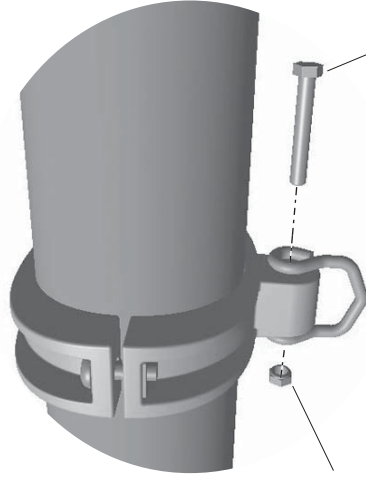
Swing Hanger



Drive Rivet
BAE0020
(4 Total)



Swing Clevis Connector
ABC0704
(4 Total)



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11

Attach each clevis to a swing hanger.

Detail E
Step 14
*Secure the swing hangers
to the top rail.*



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

**PLAYWORLD
SYSTEMS®**

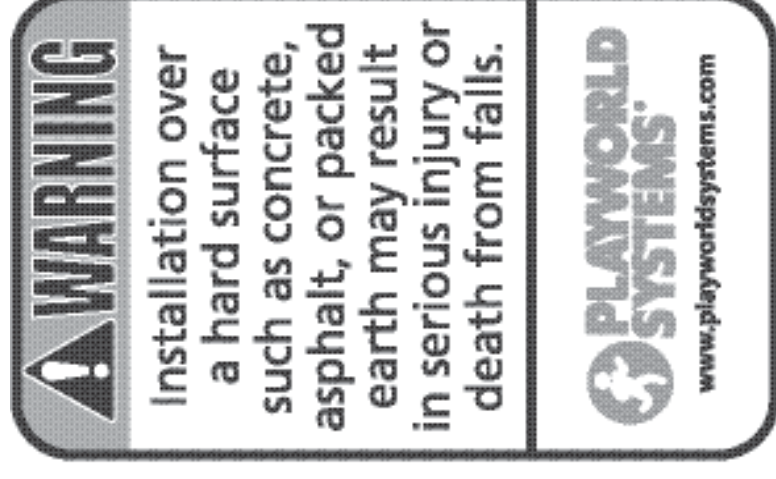
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

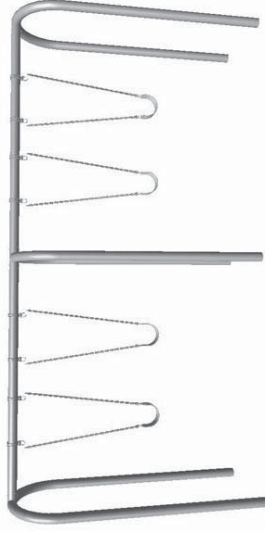
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



EVERGLADE PARK

MANUFACTURERS' INSTALLATION INFORMATION

EVERGLADE PARK

MADISON, WI

OPTION #4

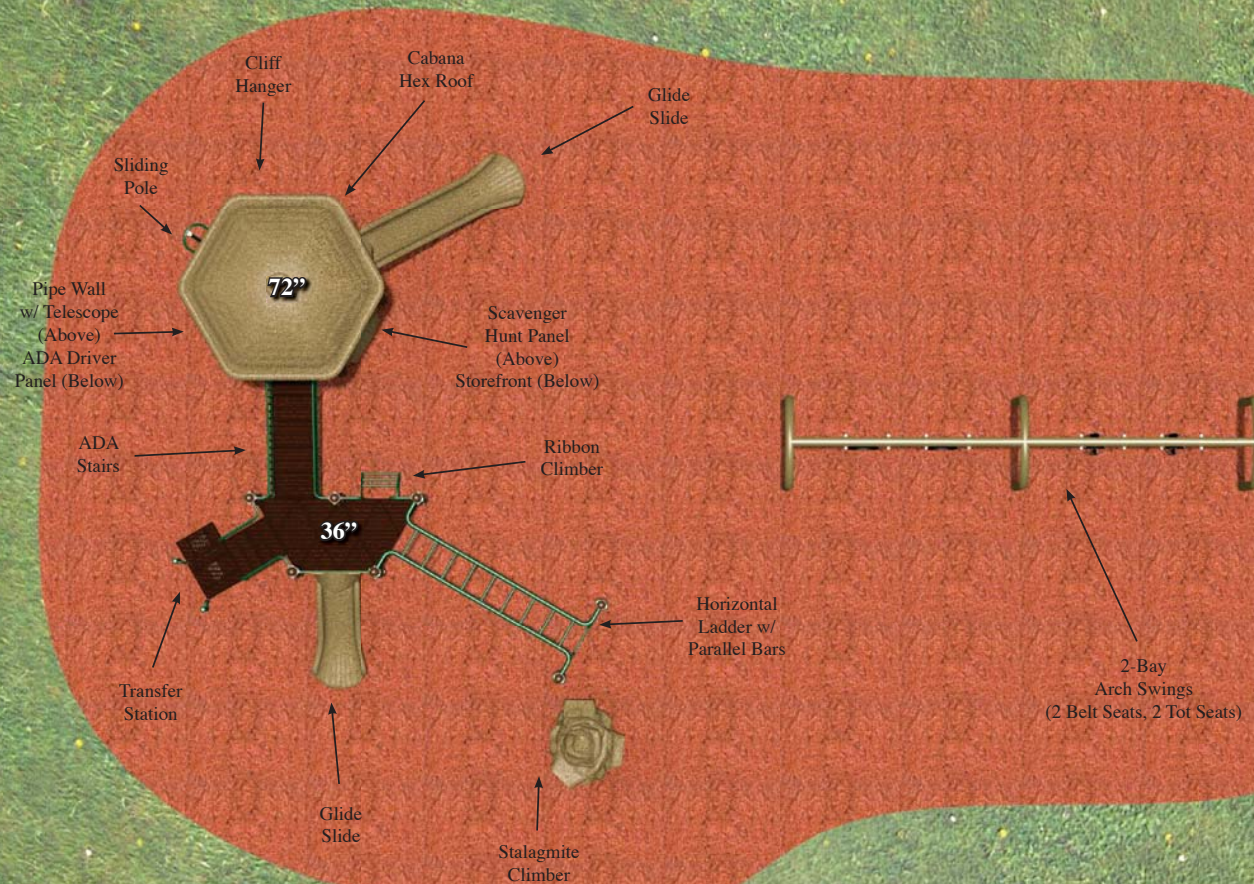
ER
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



EVERGLADE PARK

MADISON, WI

OPTION #4



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW013014

Use Zone:

of Users: 43

of Active Play Events: 15

Colors Shown:



Chocolate



Brownstone



Green



Everglade

Design Number: 3 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0
5	ZZPM0016	3	5in OD X 120in STEEL POST W/ RIVETED CAP	Certified	201.33		298	0	3.00	0.39	0
6	ZZPM0026	4	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	296.84		434	0	4.00	0.48	0
7	ZZPM0079	6	5in OD x 205in STEEL POST W/O CAP	Certified	682.26		926	0	6.00	0.78	0
8	ZZPM0618	1	1/2 HEX COATED DECK ASSEMBLY	Certified	111.82		353	5	1.00	0.00	0
9	ZZPM0619	1	HEX COATED DECK ASSEMBLY	Certified	228.72		638	8	2.00	0.00	0
10	ZZPM2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	155.24		329	2	2.00	0.09	0
11	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83		72	1	1.00	0.04	0
12	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44		678	2	2.00	0.03	1
13	ZZPM3127	1	GLIDE SLIDE (36in DECK)	Certified	111.54		399	2	2.00	0.03	1
14	ZZPM8090	1	SLIDING POLE (72in DECK)	Certified	71.37		178	1	1.00	0.03	1
15	ZZPM4406	1	ACCESSIBLE DRIVING PANEL	Certified	31.59		237	1	0.50	0.00	1
16	ZZPM4546	1	SCAVENGER HUNT (DECK LEVEL)	Certified	52.85		568	3	2.00	0.00	1
17	ZZPM4646	1	STOREFRONT PANEL	Certified	44.80		279	2	1.00	0.00	1
18	ZZUN4280	1	TELESCOPE (PIPE WALL MOUNT FOR 4in RUNG CENTERS)	Certified	12.33		61	1	0.50	0.00	1
19	ZZPM4090	1	CENTERLINE PIPE WALL BARRIER	Certified	37.22		95	0	0.50	0.00	0
20	ZZPM7196	1	ANGLED CLIMBER LARGE (72in DECK)	Certified	81.33		213	2	1.00	0.00	1
21	ZZPM8289	1	RIBBON CLIMBER (36in DECK)	Certified	51.98		126	2	1.50	0.06	1
22	ZZUN8246	1	ROCKBLOCKS STALAGMITE CLIMBER	Certified	144.00		540	3	1.75	0.09	1



Everglade

Design Number: 3 - Compliance and Technical Data
Reference Document: ASTM F1487

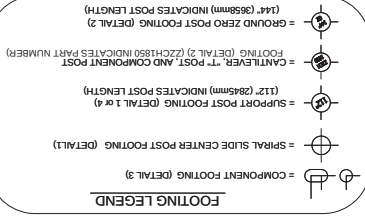
Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	26.16		77	1	1.50	0.06	0
24	ZZPM6936	1	HORIZONTAL LADDER W/ PARALLEL BARS	Certified	136.23		273	1	0.00	0.00	1
25	ZZPM9858	1	PM HEX CABANA ROOF	Certified	300.63		1,138	0	1.00	0.00	0
26	ZZPM9177	1	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	286.99		640	2	1.50	0.00	0
Totals:					3,663.12	501	1,032	43	43.75	2.86	15
					1,648.40 Kg	225 Kg	464 Kg	11 Metric Tons		2.17 m3	



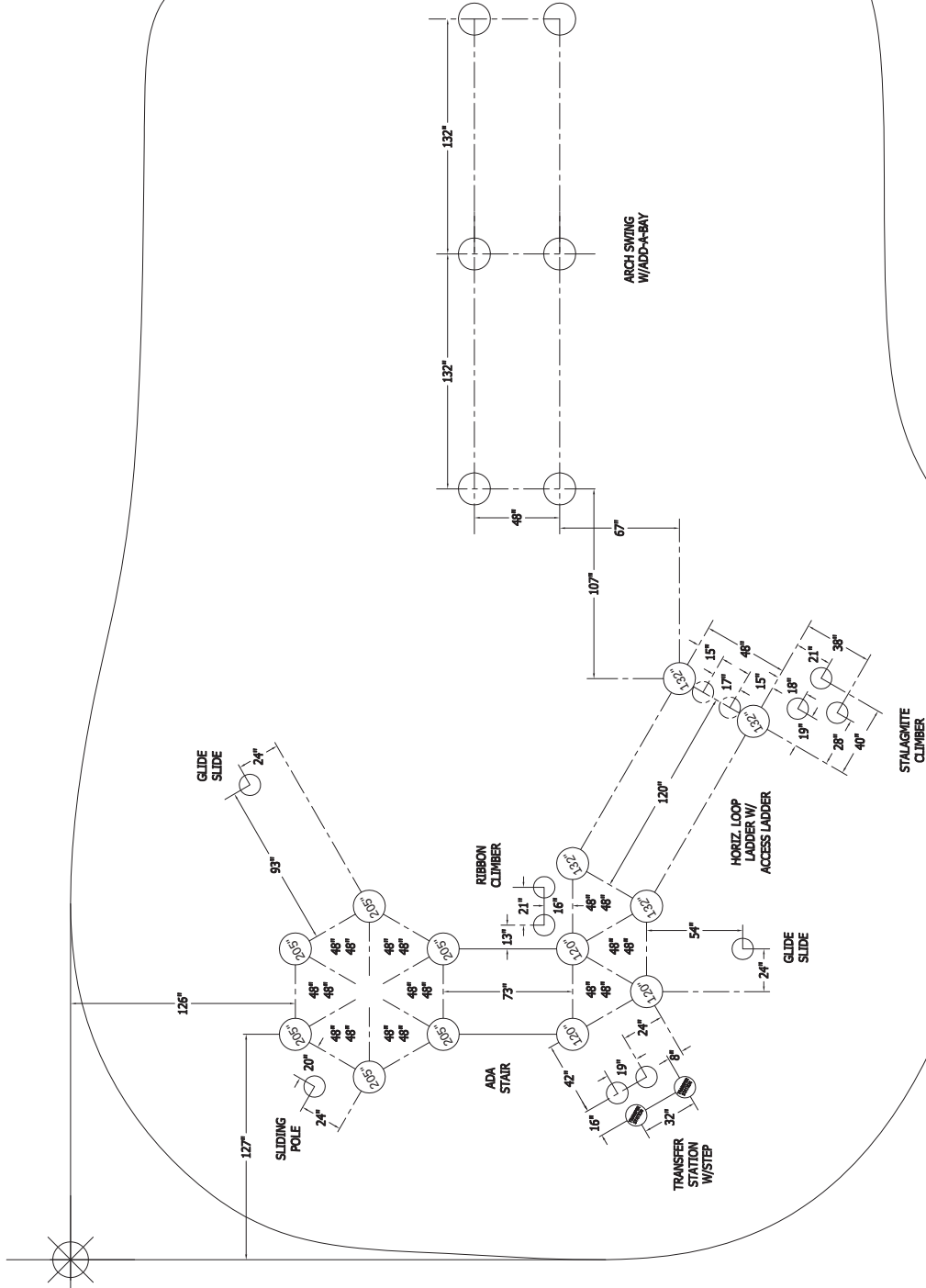
EVERGLADE 4

PLAYWORLD
 Lee Recreation
 809 Bluebird Pass
 Cambridge, WI 53523

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PROJECT NO: LEE_FT65		SYSTEM: PLAYMAKERS	FOOTING PLAN
REV: -	DATE: 04-MAR-14	SCALE: 3/16" = 1'-0"	DRAWN BY: DANA GRUBBS



*Playground Supervision Required

Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

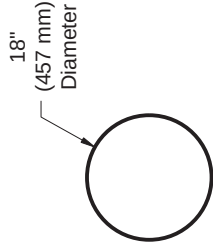
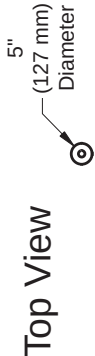


Assembly View (representative model)

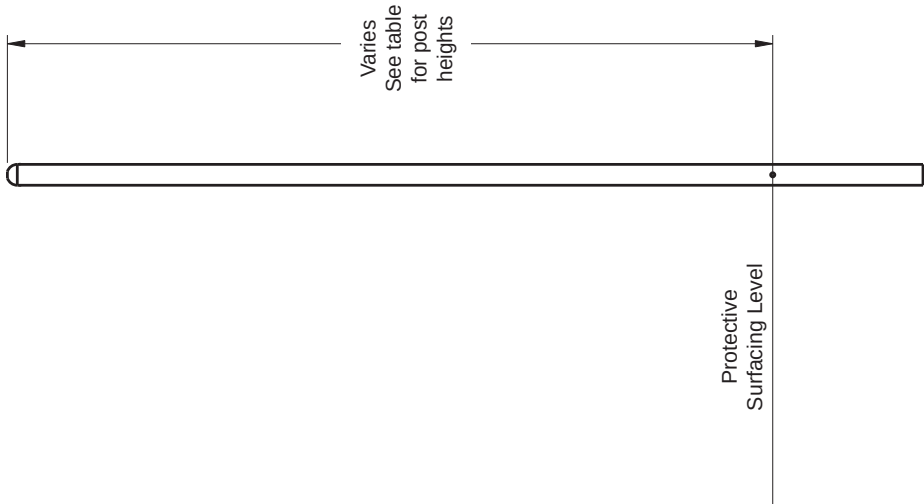
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)

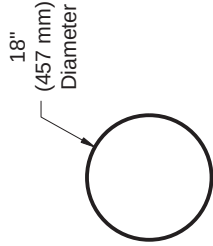
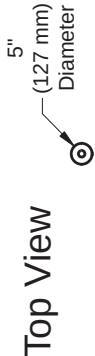


Assembly View (representative model)

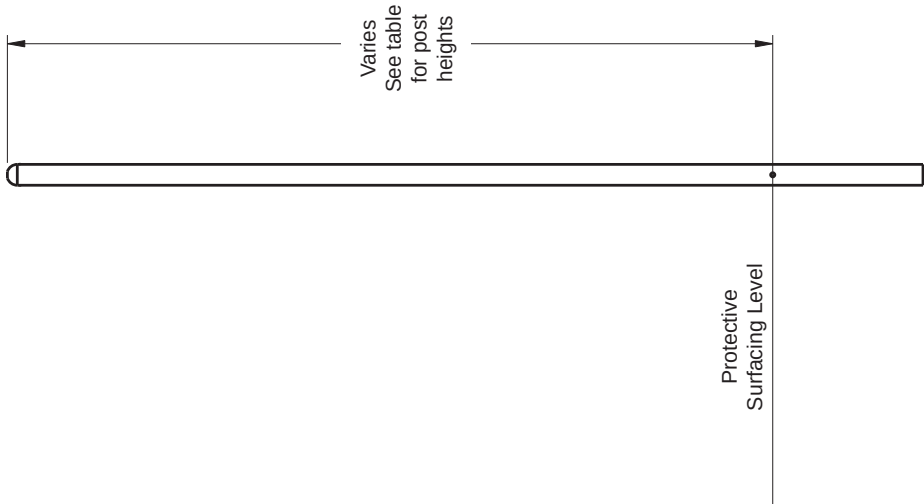
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Elevation View

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



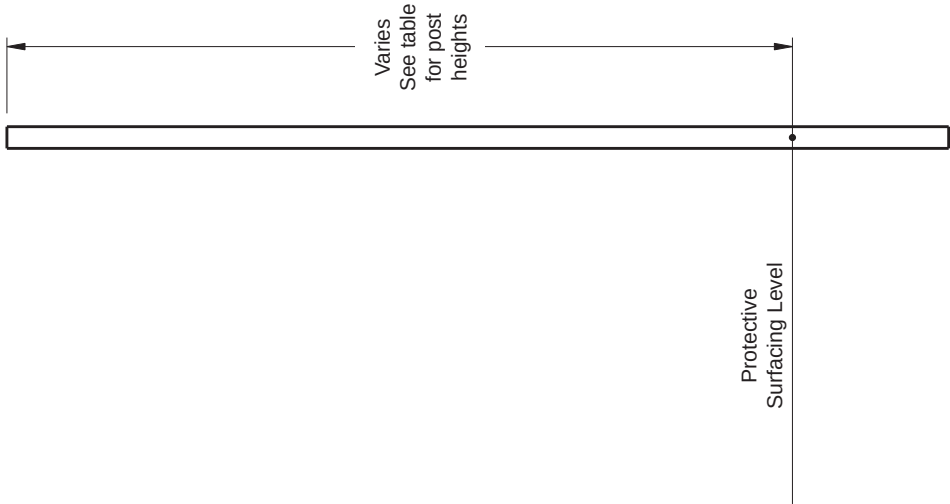
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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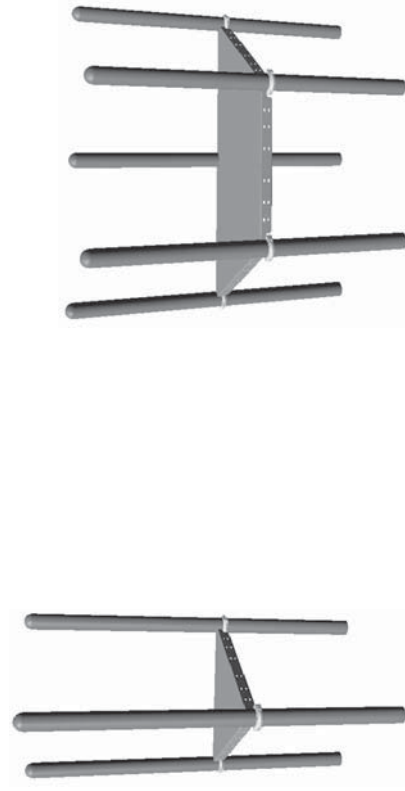


Installation Instructions

Playmakers® PM0617, and PM0618

Triangular and Half Hex

Coated Perforated Decks



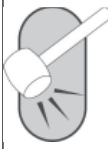
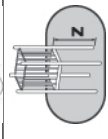
ZZPM0617
Triangular Deck

ZZPM0618
Half Hex Deck

Assembly View

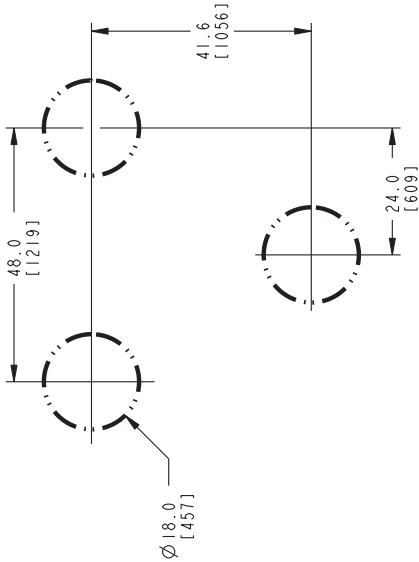
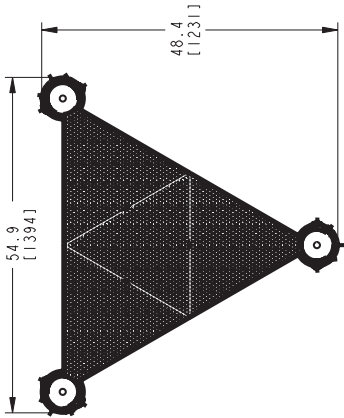
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

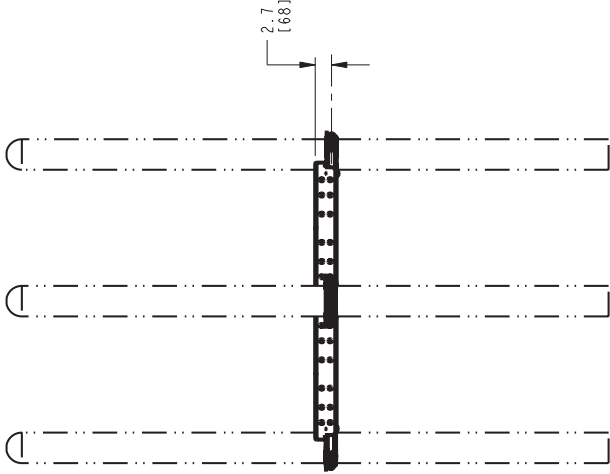
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



Elevation View
Model PM0617

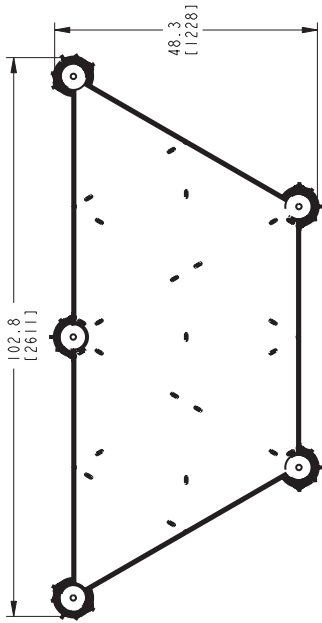


Equal to the height of the deck

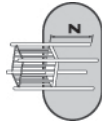
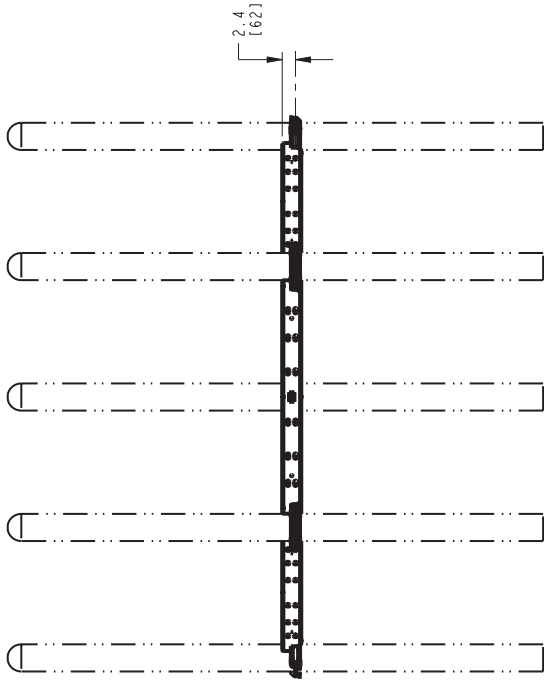
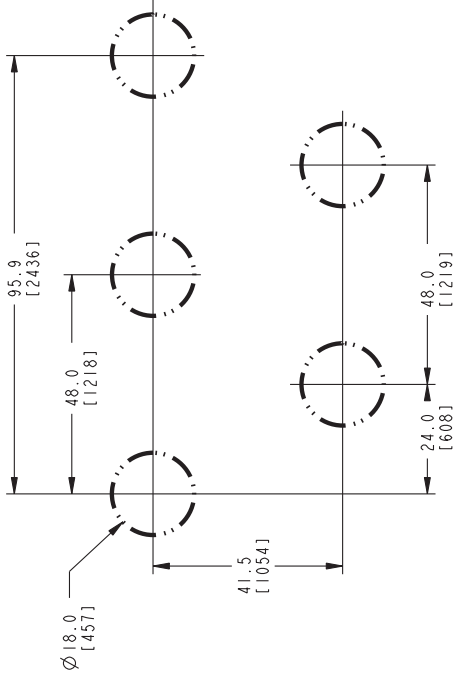
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram

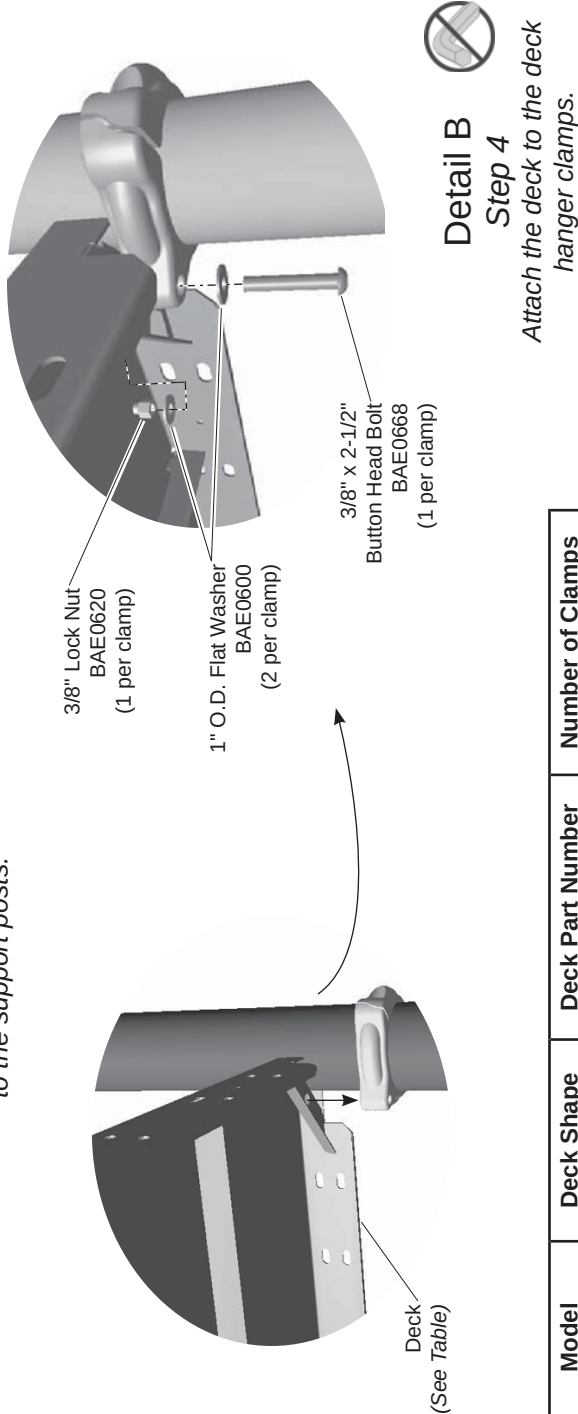
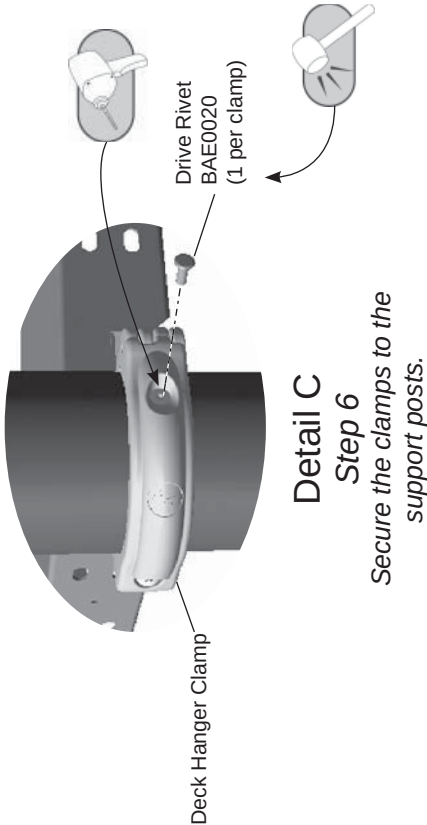
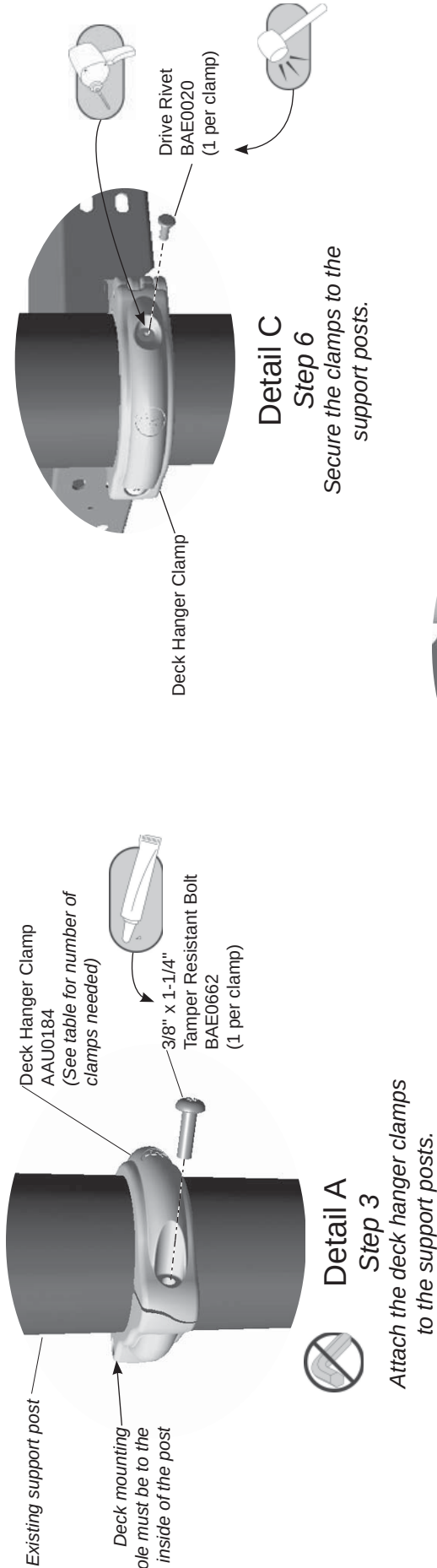


Equal to the height of the deck

Elevation View
Model PM0618

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Deck Shape	Deck Part Number	Number of Clamps
ZZPM0617	Triangular	BPM0166	3
ZZPM0618	Half Hex	BPM0167	5



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A** and the **Parts Table** on **page 4**. Select the appropriate number of deck hanger clamps for your deck model and hardware. There is (1) one connection per clamp. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B** and the **Parts Table** on **page 5**. Select the appropriate deck and hardware. There is (1) one connection per clamp to deck. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

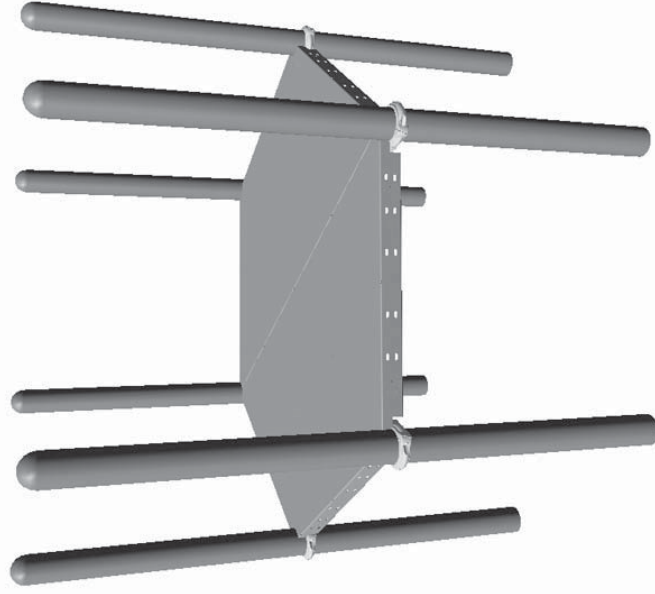
PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0166	PLATFORM - PM TRIANGULAR PERF	1

PM0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	5
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	5
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	5
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	5
BPM0167	PLATFORM - PM HALF HEX PERF	1

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Installation Instructions Playmakers® PM0619 Hex Coated Perforated Deck

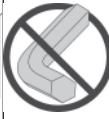
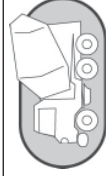
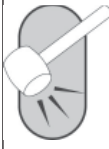
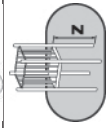


Assembly View

Installation Preparation

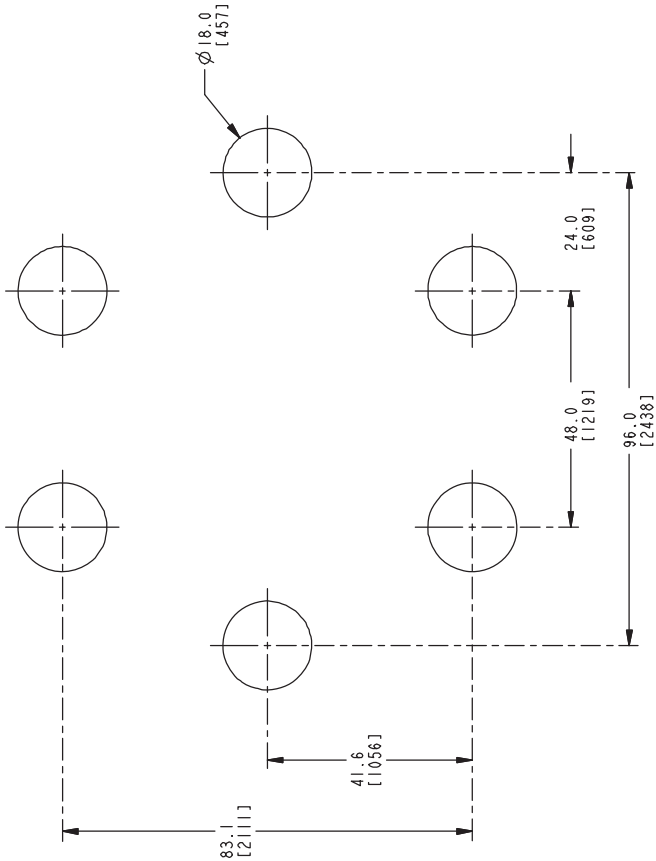
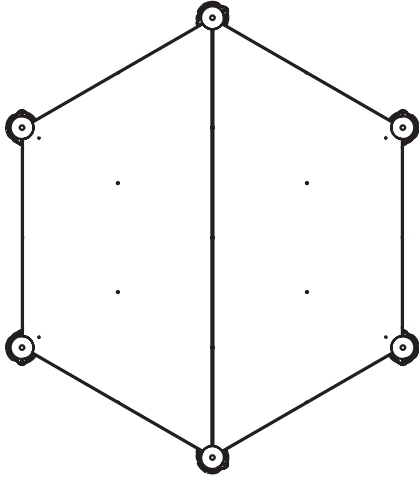
Recommended Crew: Four (4) adults
 Installation Time: 2 man-hours
 *Weight: 289.9 lbs. (131,8 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

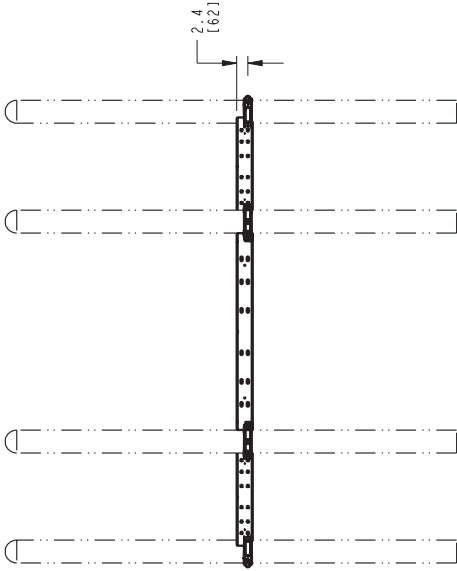
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



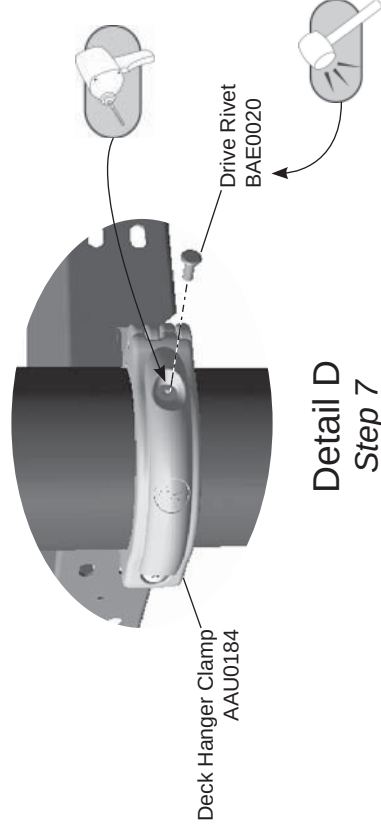
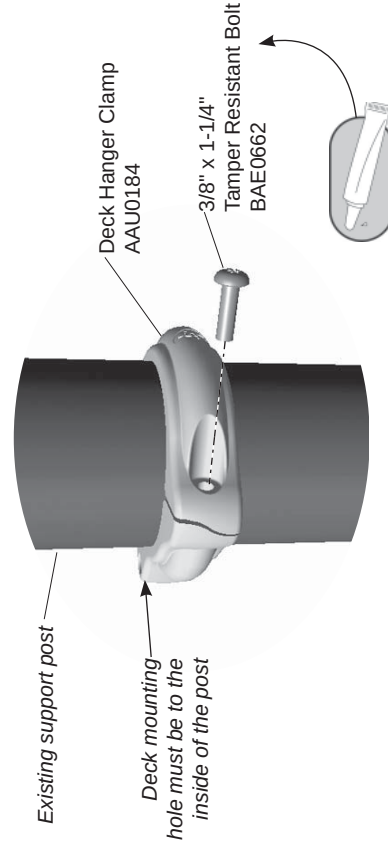
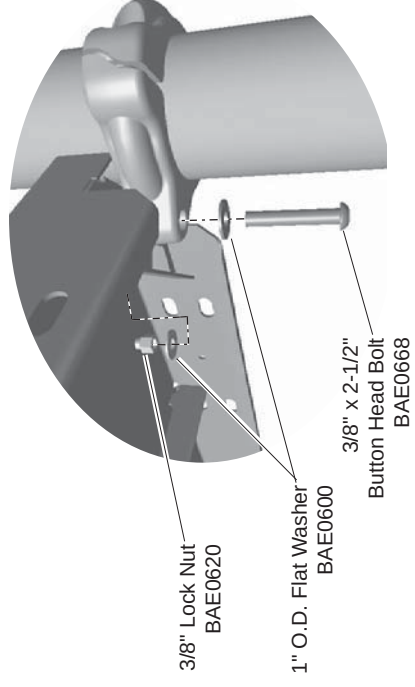
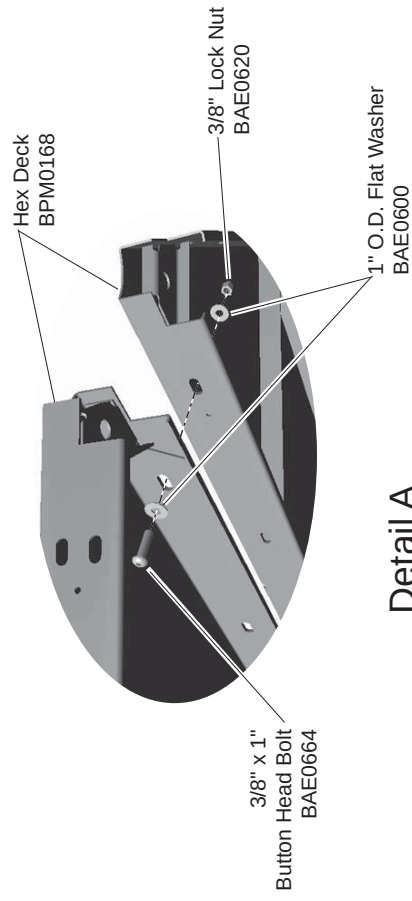
Footing Diagram



Elevation View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Note: It is recommended that (4-5) four to five adults lift the assembled deck into place.

Attach the decks together.

Step 3: Attach the decks together. See **Detail A**. Select both half hex decks and the appropriate hardware. There are (8) eight connections. Orient the long side of the decks flush together and attach as shown.

Step 4: Attach the clamps to the support posts. See **Detail B**. Select (6) six deck hanger clamps and the appropriate hardware. There is (1) one connection per clamp. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 5: Attach the deck assembly to the clamps. See **Detail C**. Select the appropriate hardware. There are (6) six connections. With adequate manpower, lift the deck onto the clamps, align the holes in the deck with those in the clamps and attach as shown.

Note: Each deck must be attached to (3) three clamps.

Final Details.

Step 6: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

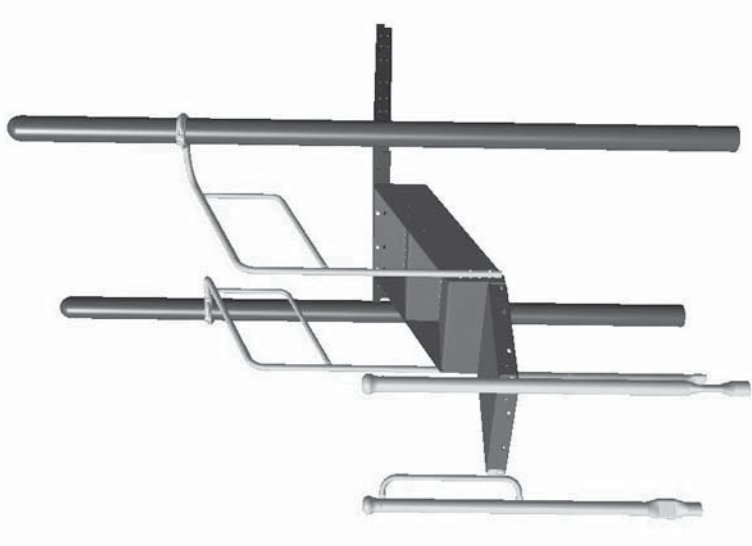
PM0619 - HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0168	PLATFORM - PM HEX PERF	2



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM2006	36" (915 mm)	172.7 lbs. (78,5 kg)
ZZPM2006S	36" (915 mm)	168.8 lbs. (76,7 kg)
ZZPM2007	36" (915 mm)	176.7 lbs. (80,3 kg)
ZZPM2007S	36" (915 mm)	172.8 lbs. (78,5 kg)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S

36 in. (914 mm) Transfer Station and

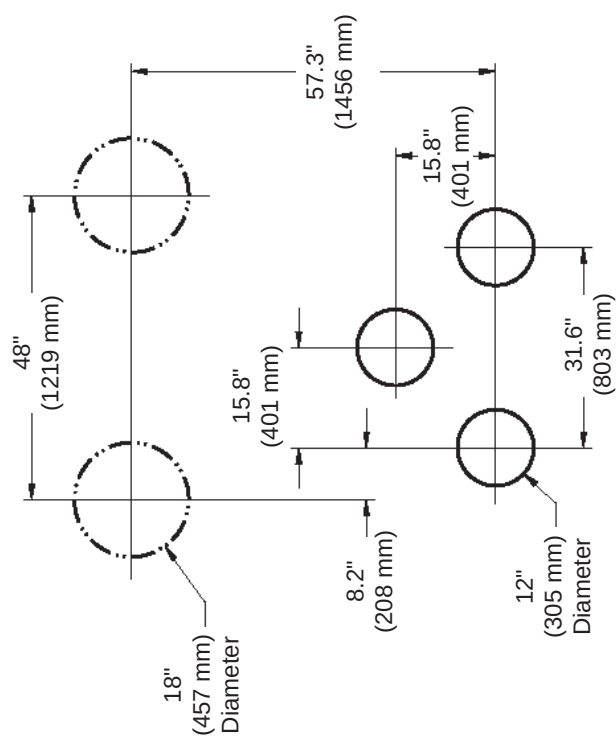
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

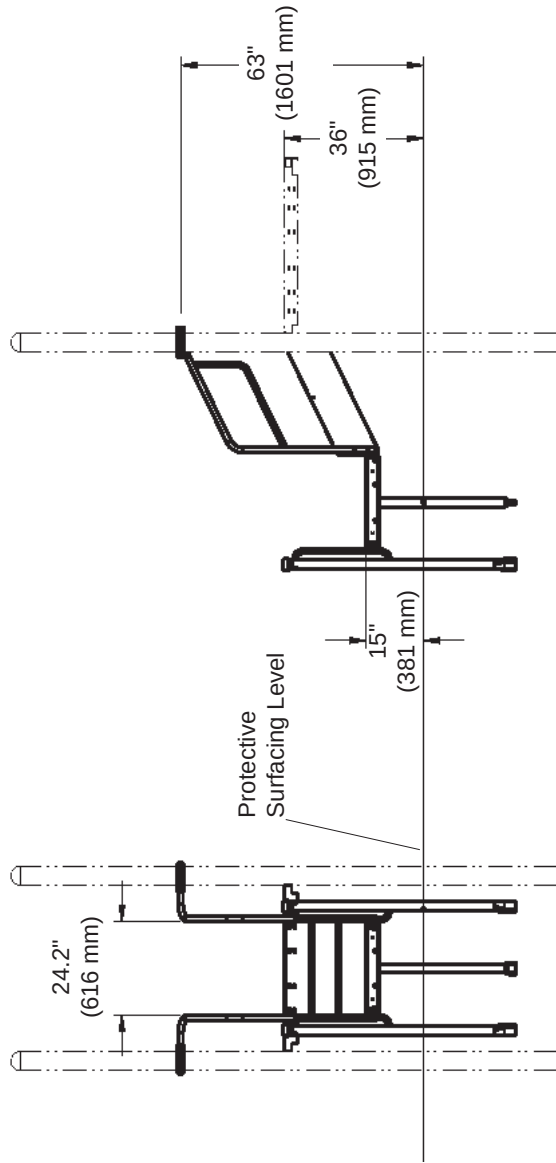
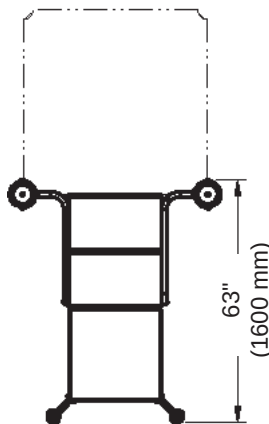
Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Weight: refer to chart
 Concrete Required: 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

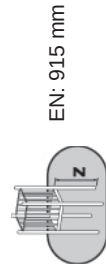


Top View



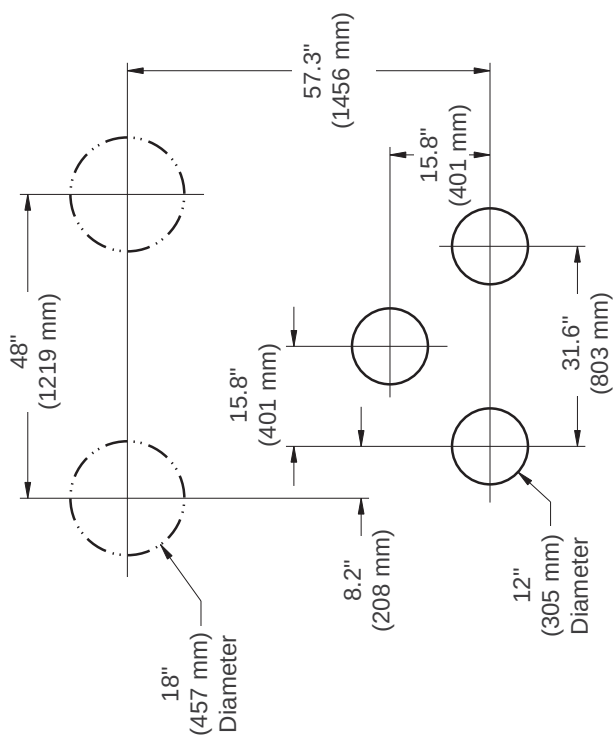
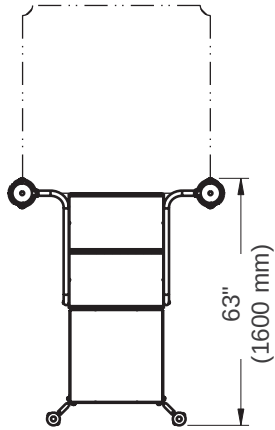
Elevation View
PM2006 (S)

Footing Diagram

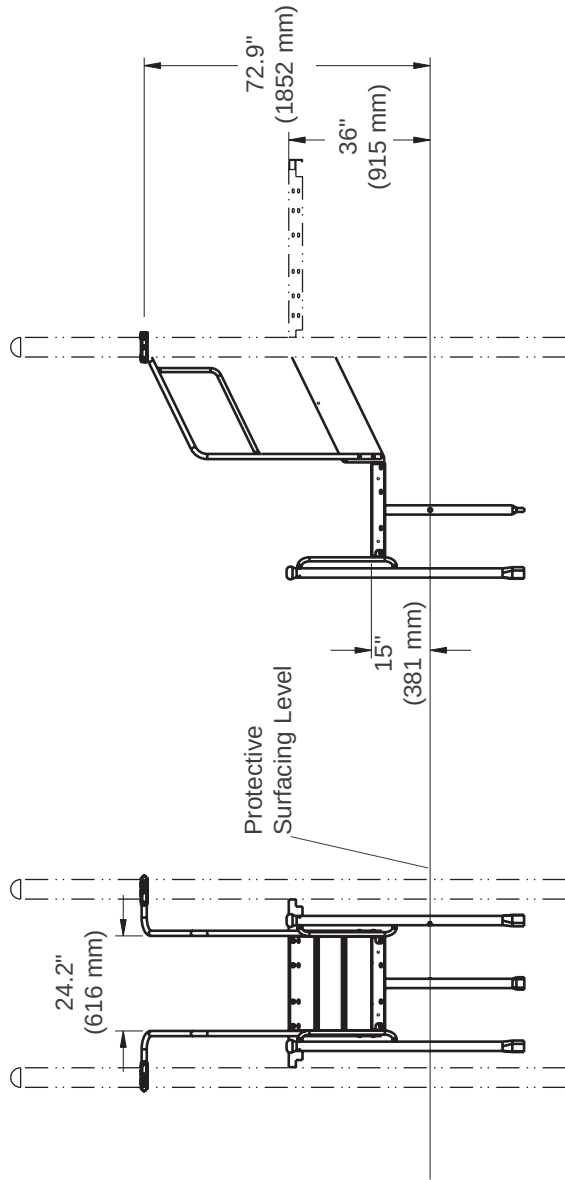


Installation Instructions

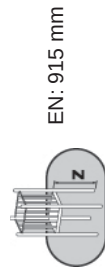
Top View



Footing Diagram

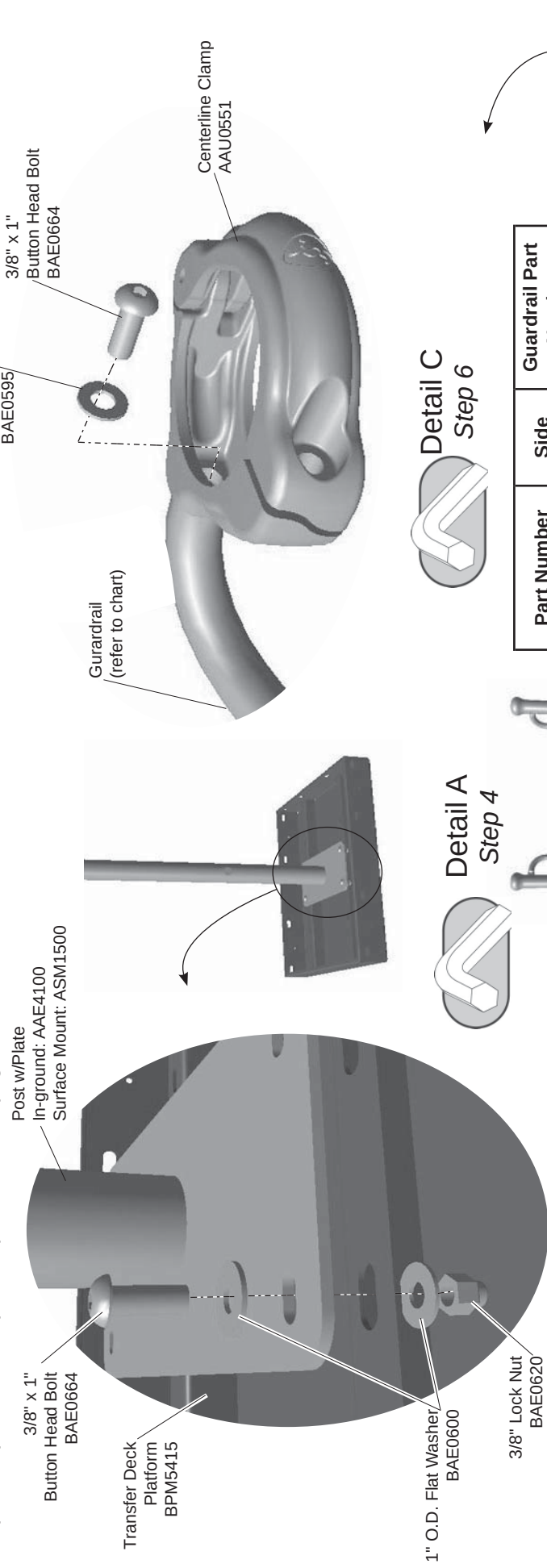


Elevation Views
PM2007 (S)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

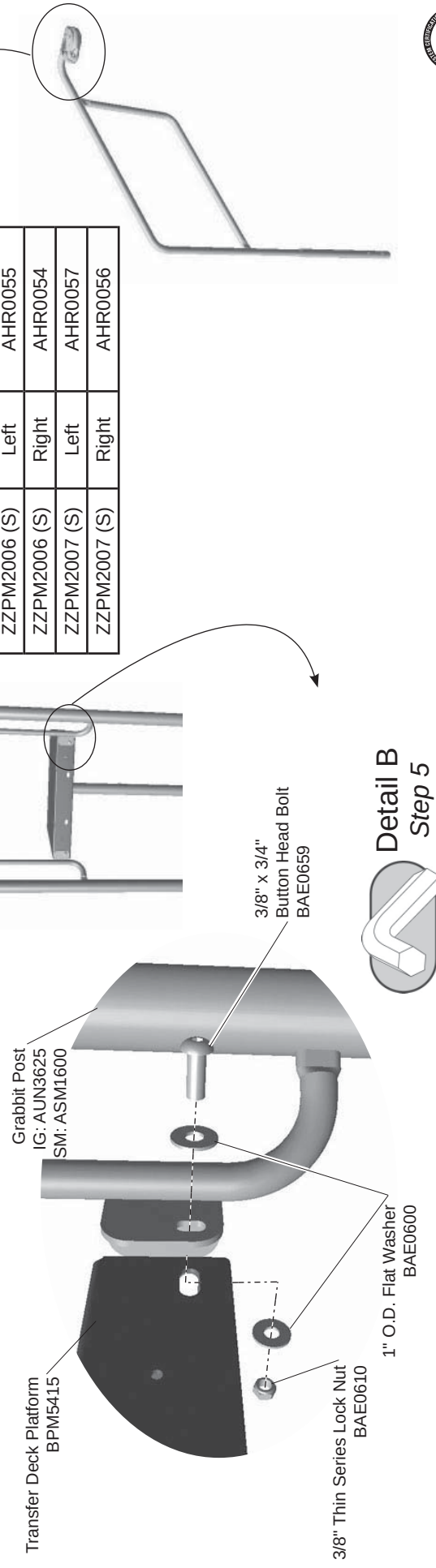


Detail C



Detail A
Step 4

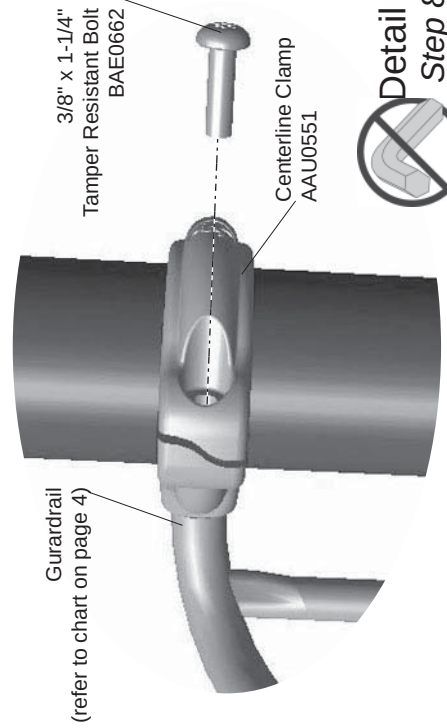
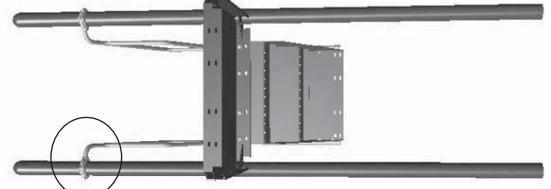
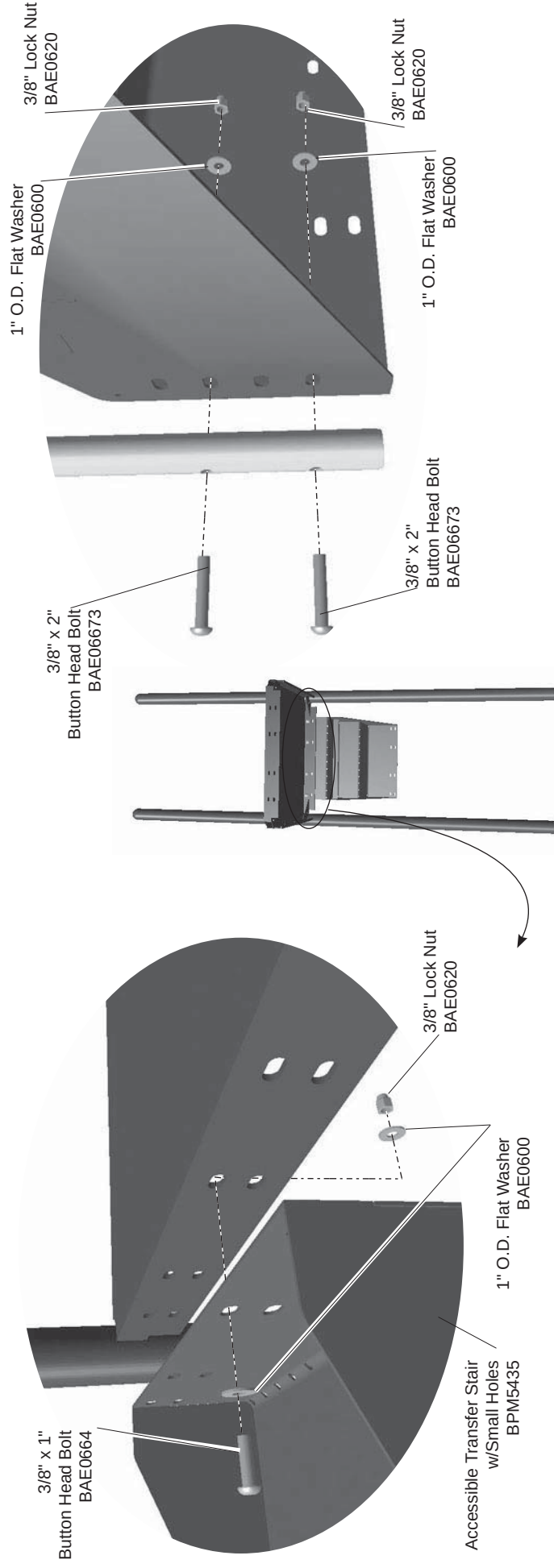
Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056



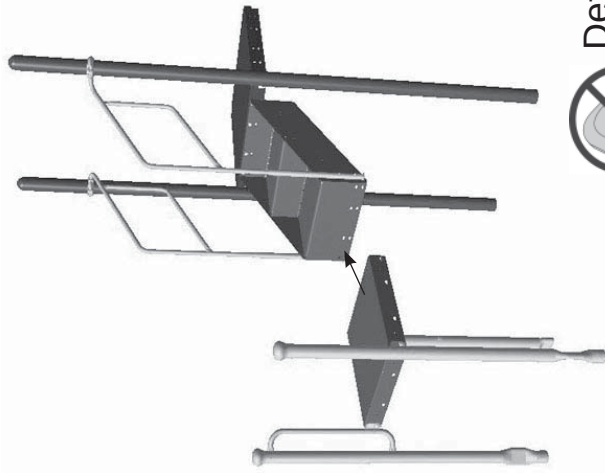
Detail B

Step 5

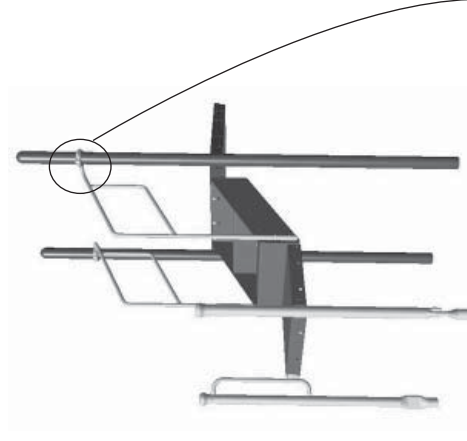
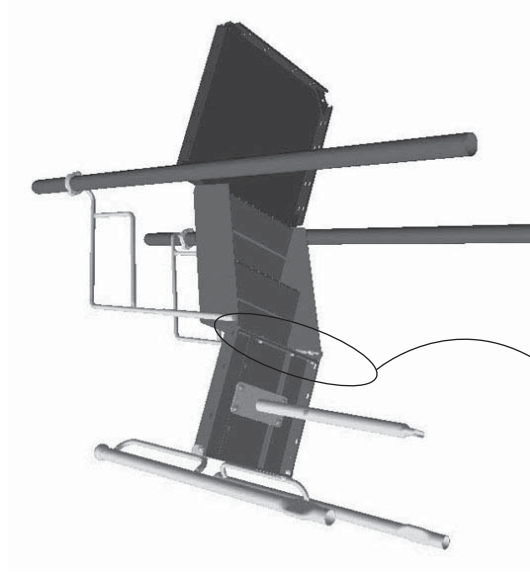
Installation Instructions



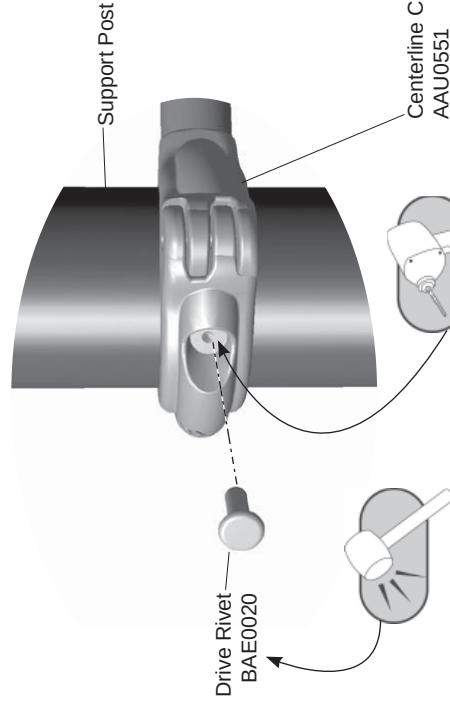
Installation Instructions



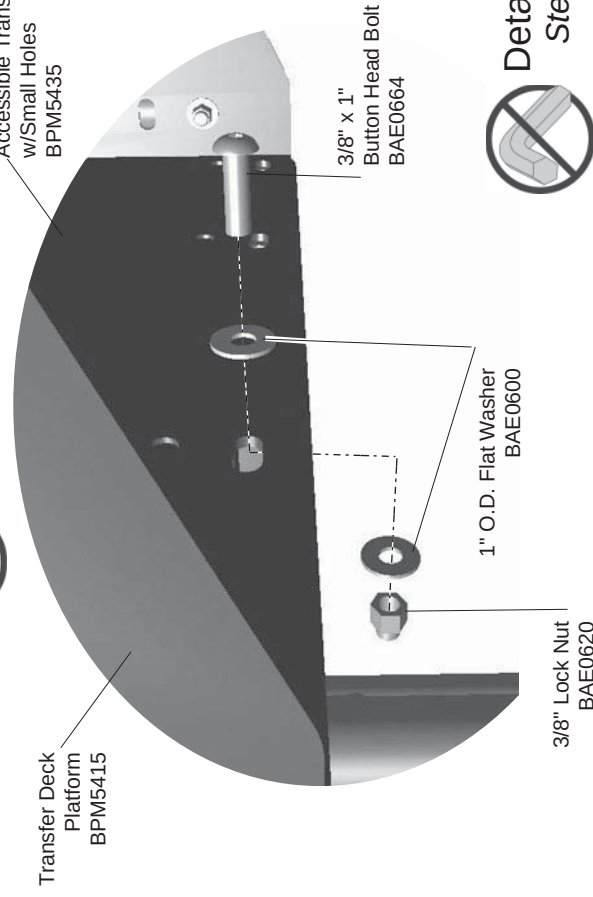
Detail G-1
Step 10



Detail H
Step 12



Detail G-2
Step 10



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Details** in the *Playmaker Guidelines at the beginning of this document*.

Attach the transfer deck support leg to the transfer deck.

Step 4: Attach the transfer deck support leg to the underside of transfer deck. See **Detail A**. Select the transfer deck, the transfer deck support leg, and the appropriate hardware. There are (4) four connections. Flip the transfer deck over and align the holes in the support leg mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbitts to transfer deck.

Step 5: Attach grabbitts to transfer deck. See **Detail B**. Select (2) two grabbitts, the transfer deck assembly, the appropriate hardware. There are (2) two connections per grabbit post, (4) four total connections. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Select both accessible stair guardrails, the centerline clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the end of each guardrail top and bottom rail against the neck of each clamp. Attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Select the stairs and the appropriate hardware. There are (4) four connections. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Select both guardrail assemblies and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Select the appropriate hardware. There are (2) two connections per guardrail, (4) four total connections. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Details G-1 and G-2**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Installation Instructions

Final Details.

___ **Step 11:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

___ **Step 12:** Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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Bill of Materials

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SMALL HLS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBLE COATED TRANSFER w/SMALL HLS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBL COATED TRANSFER w/SMALL HLS	1

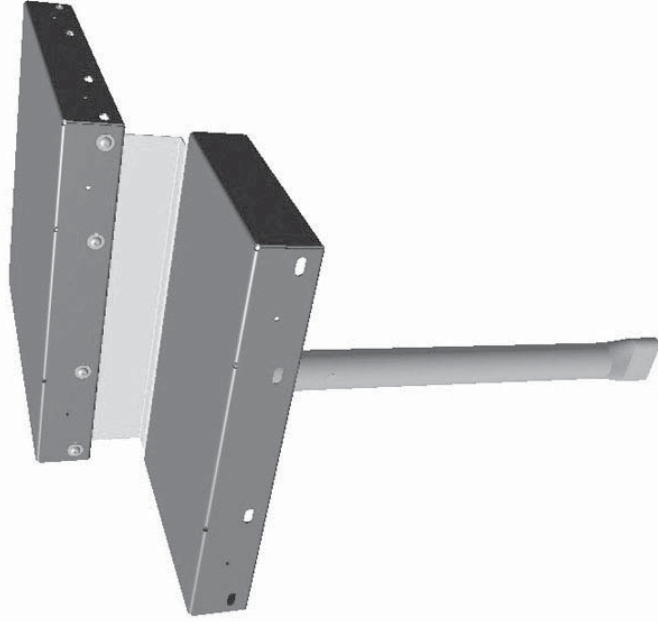
ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSIBLE COATED TRANSFER w/SMALL HLS	1



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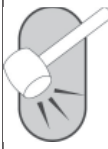
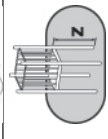
Assembly View

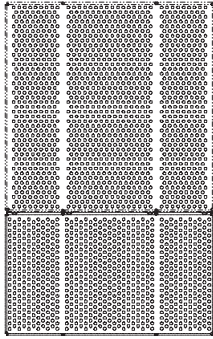
Installation Instructions Universal Model UN2019 Platform Approach Step

Installation Preparation

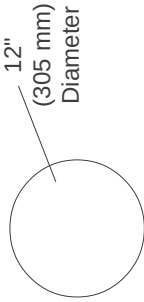
Recommended Crew: Two (2) adults
Installation Time: 1 installation-hours
Weight: 40.4 lbs. (18,2 kg)
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

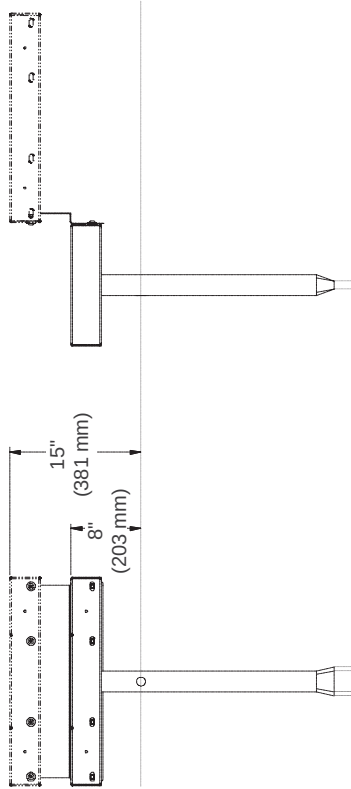
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Top View



Footing Diagram

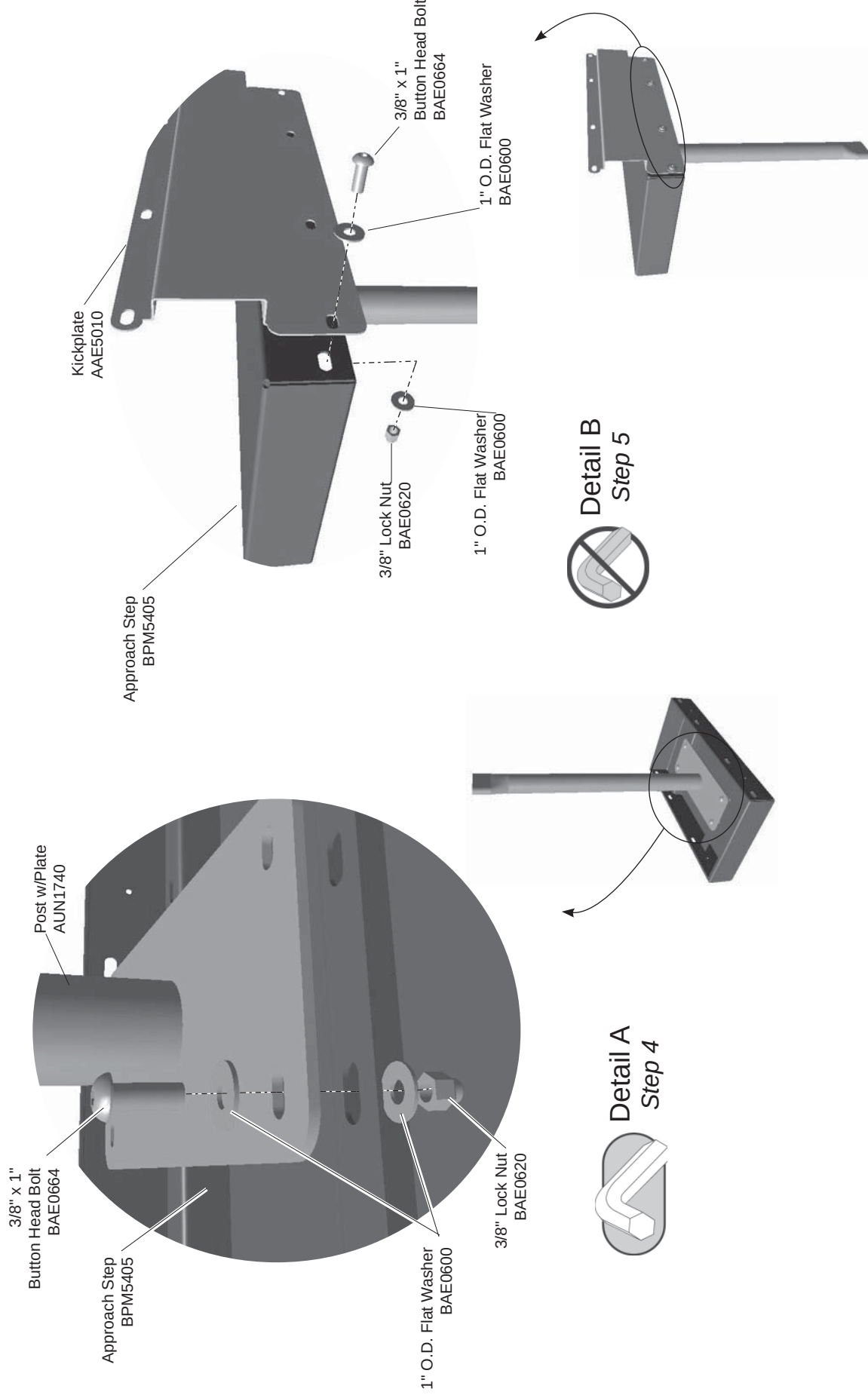


Elevation Views

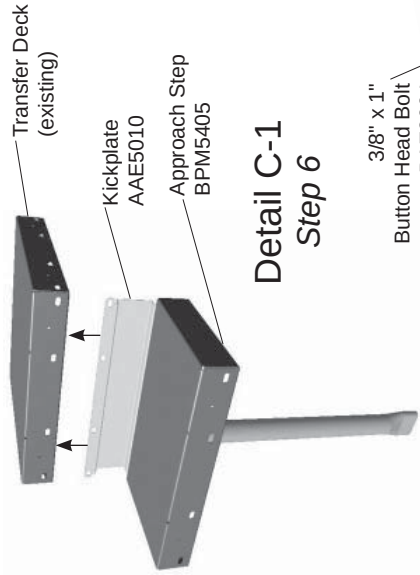


Installation Instructions

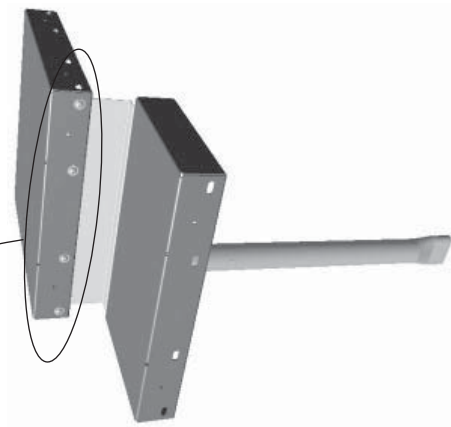
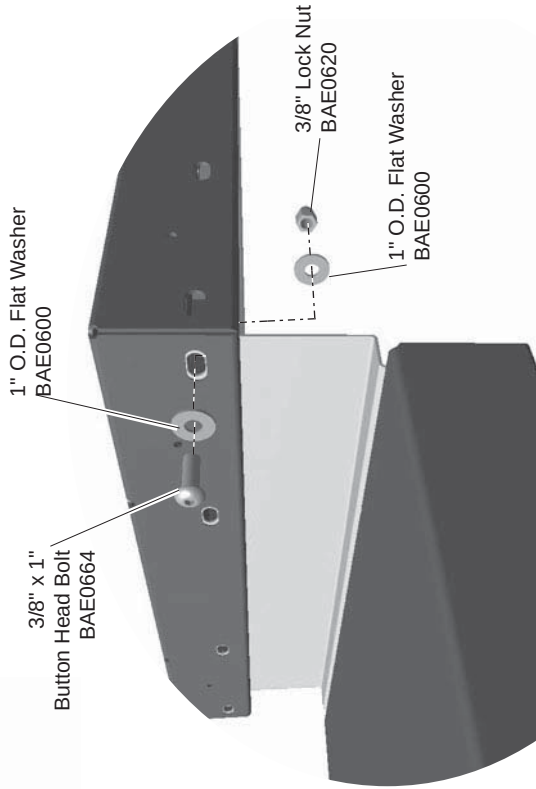
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions



Detail C-1
Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

__Step 4: Attach the support leg to the approach step. See **Detail A**. Select (1) one approach step, (1) one support leg, and the appropriate hardware. There are (4) four connections. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

__Step 5: Attach the kickplate to the approach step. See **Detail B**. Select the kickplate and the appropriate hardware. There are (4) four connections. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

__Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM5405	PLATFORM- 14" x 24" APPROACH STEP w/SMALL HOLES	1



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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides



Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

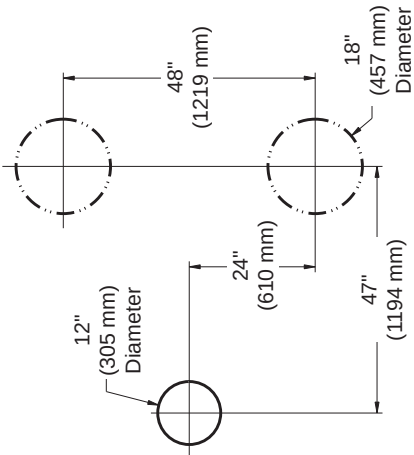
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours
Weight:	refer to the table at left
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	24" -60": ASTM/CSA: 2-12, EN: 2-14
	72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

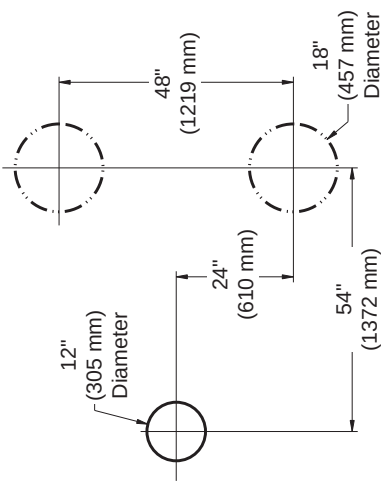
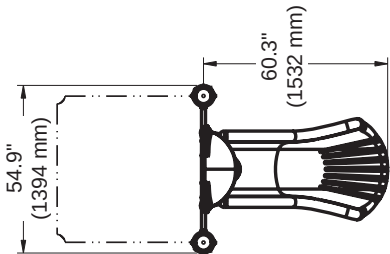
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

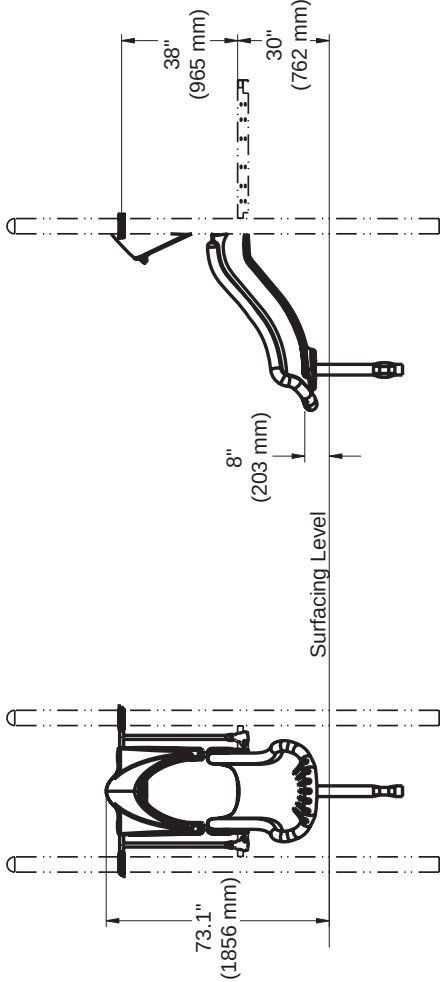
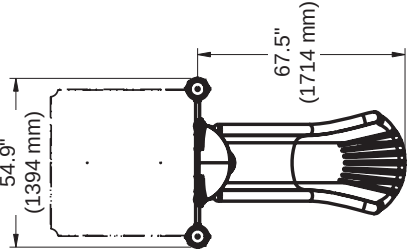


Footing Diagram

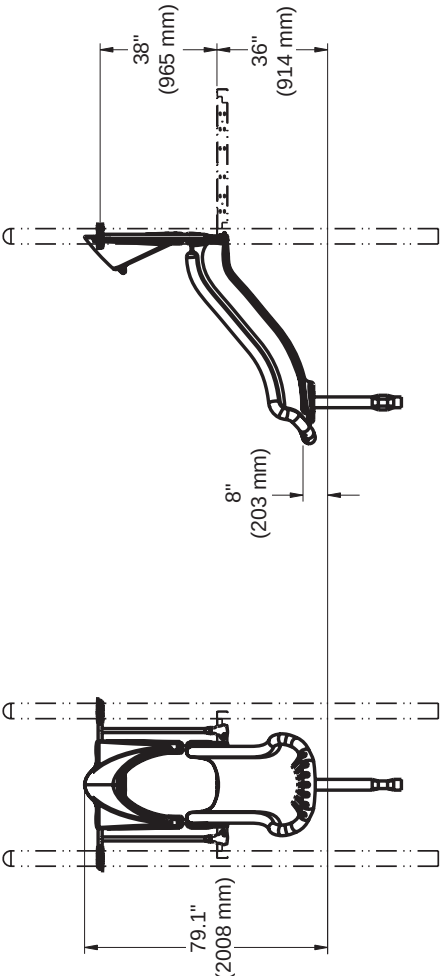
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram



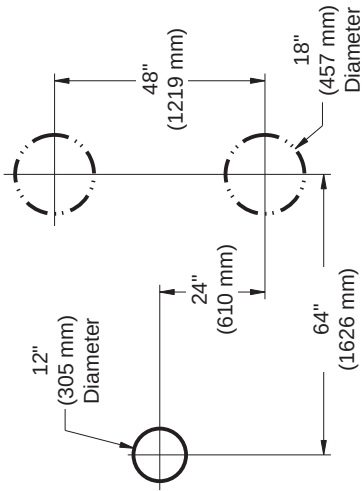
Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)



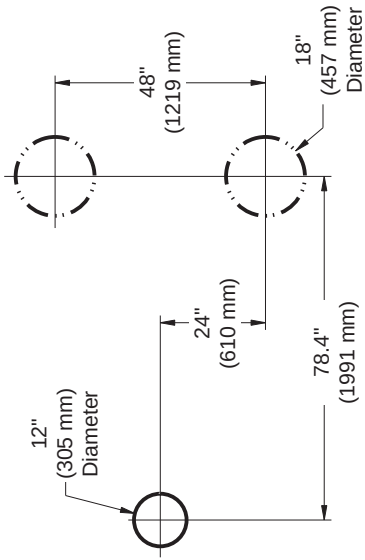
Elevation View PM3127 - 36" Glide Slide



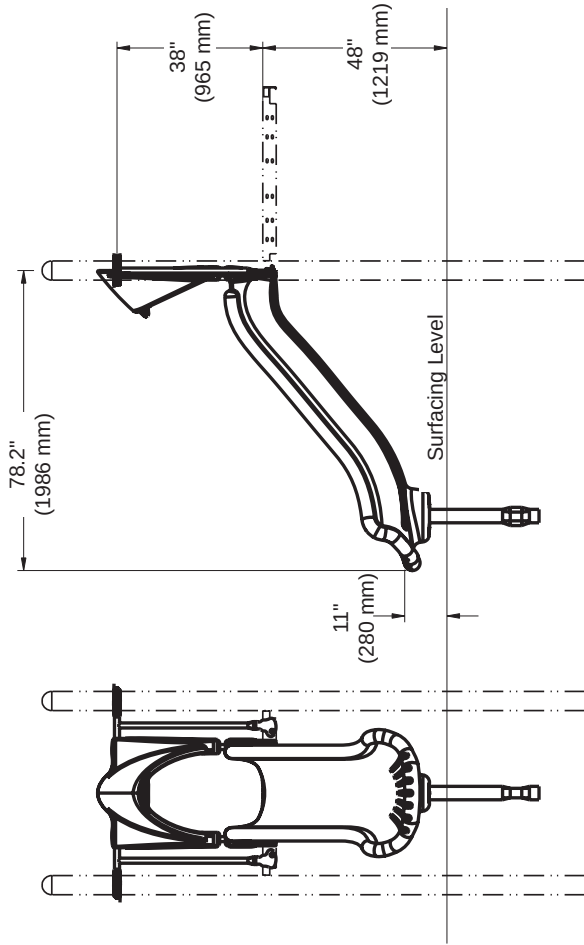
Installation Instructions



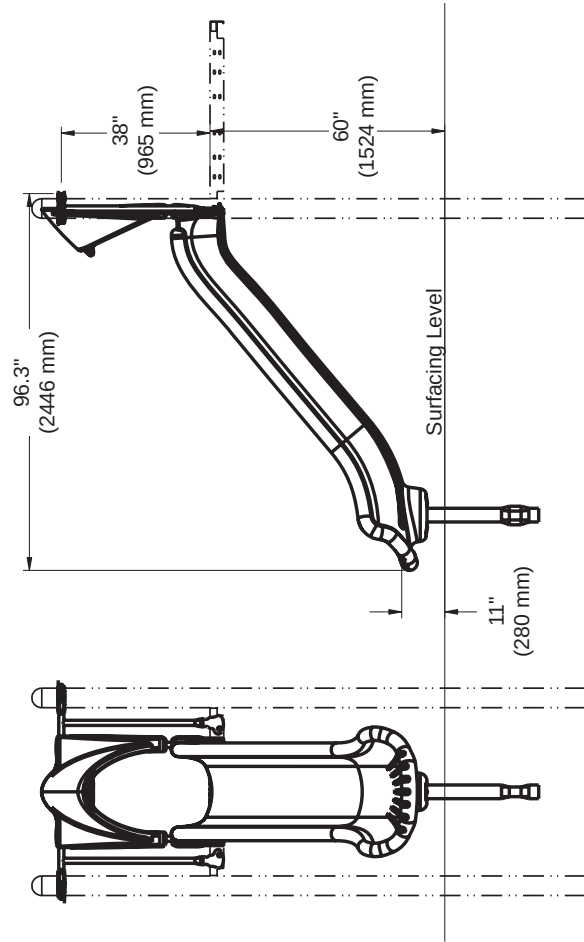
Footing Diagram



Footing Diagram

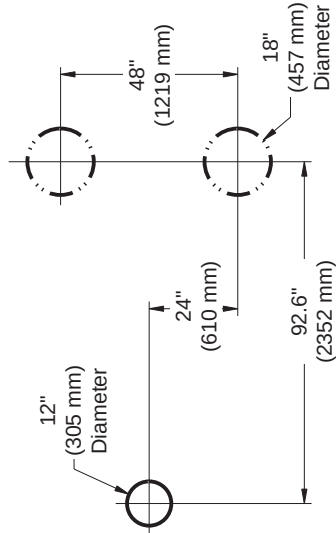


Elevation View PM3126 - 48" Glide Slide

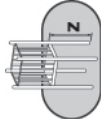


Elevation View PM2658 - 60" Glide Slide

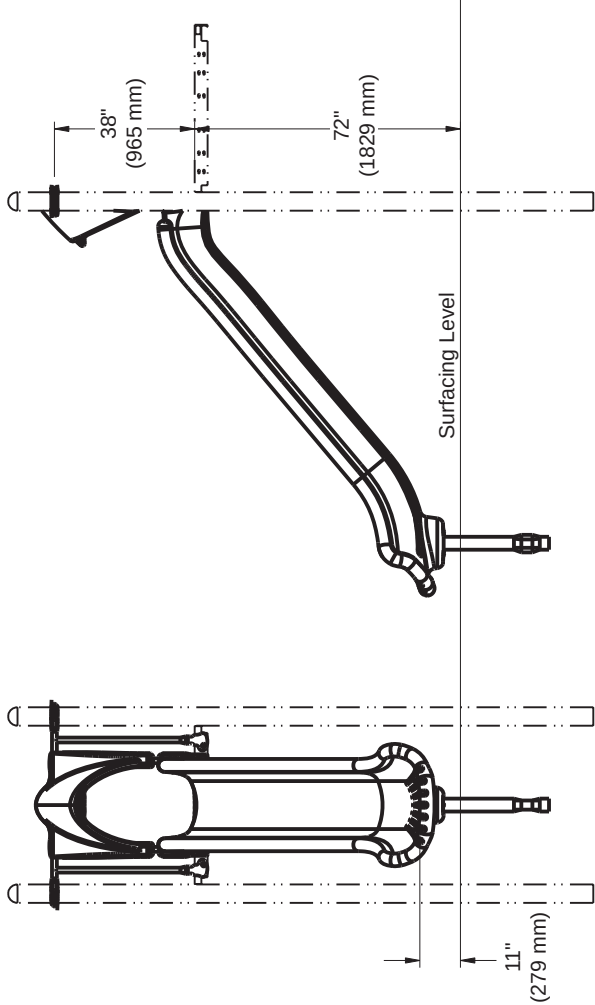
Installation Instructions



Footing Diagram



(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

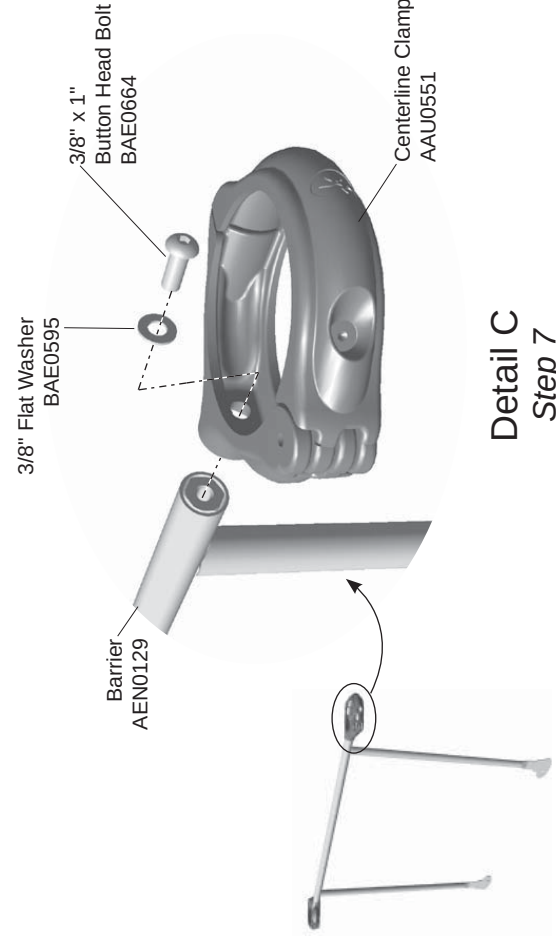
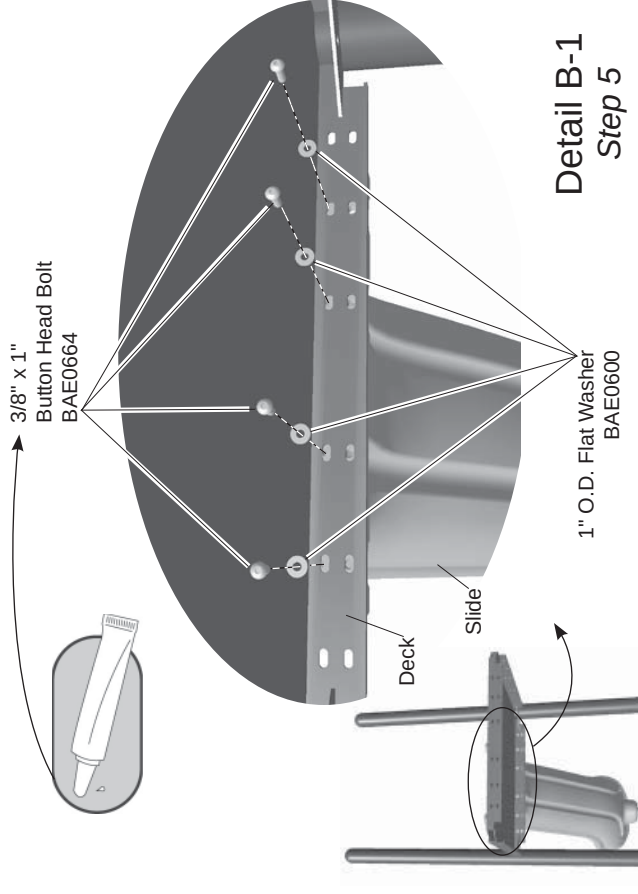
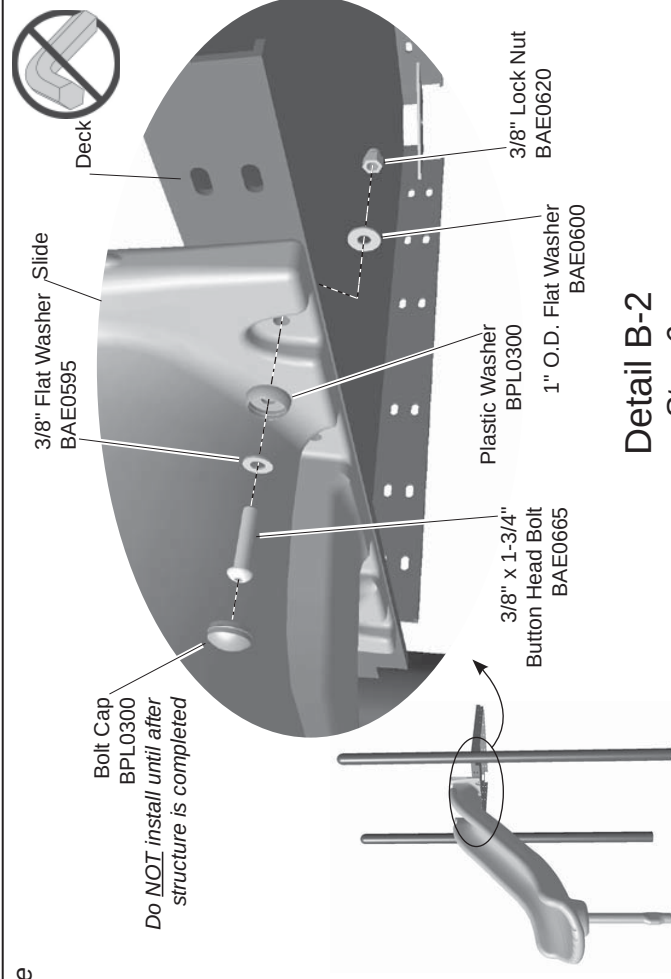
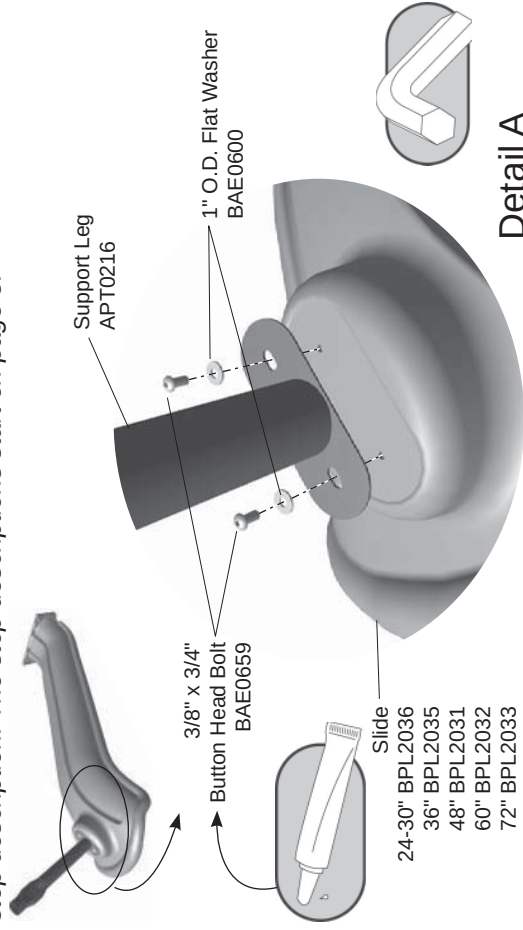


Elevation View PM2696 - 72" Glide Slide

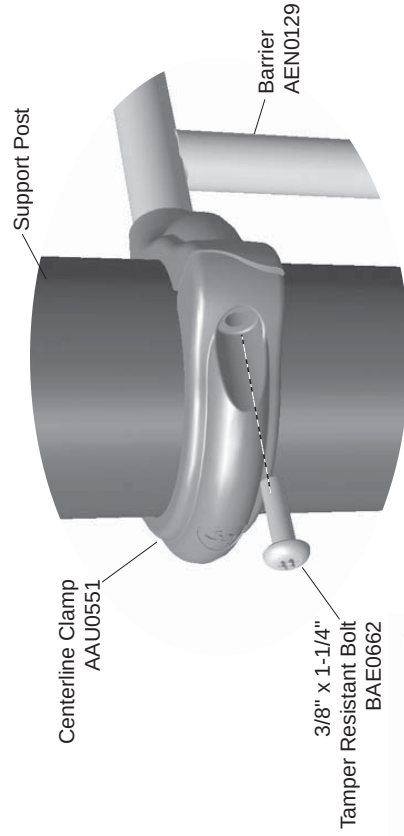


Installation Instructions

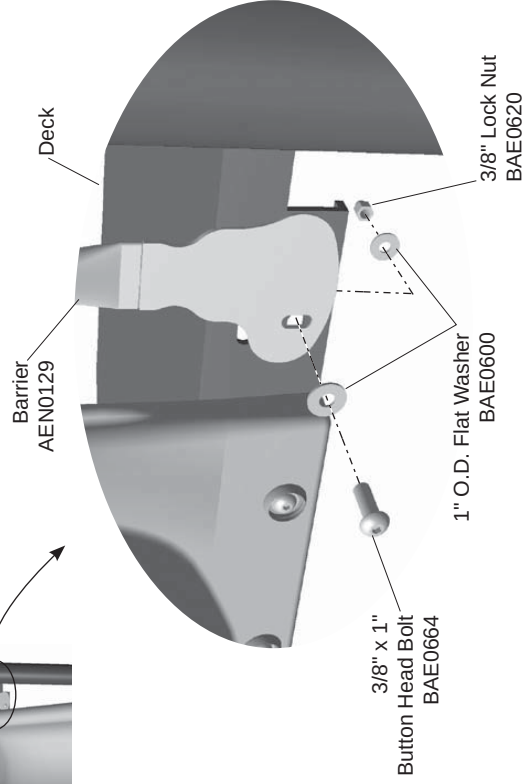
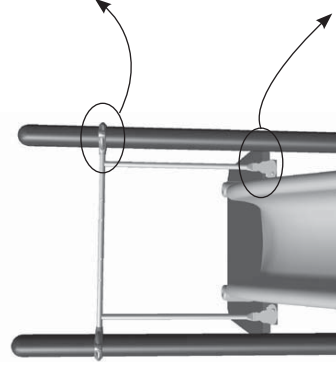
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



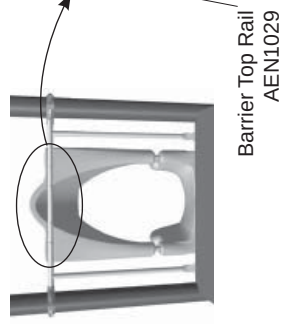
Installation Instructions



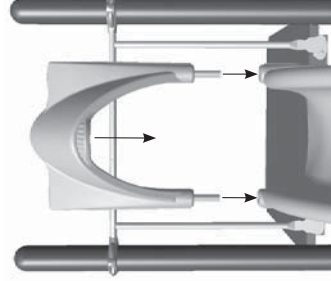
**Detail D-1
Step 8**



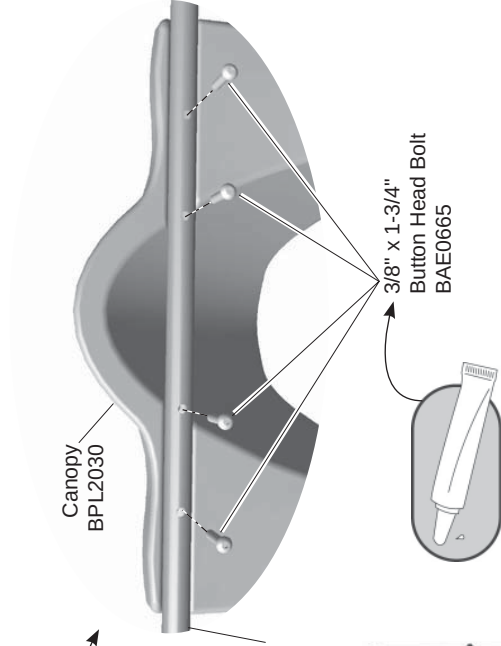
**Detail D-2
Step 9**



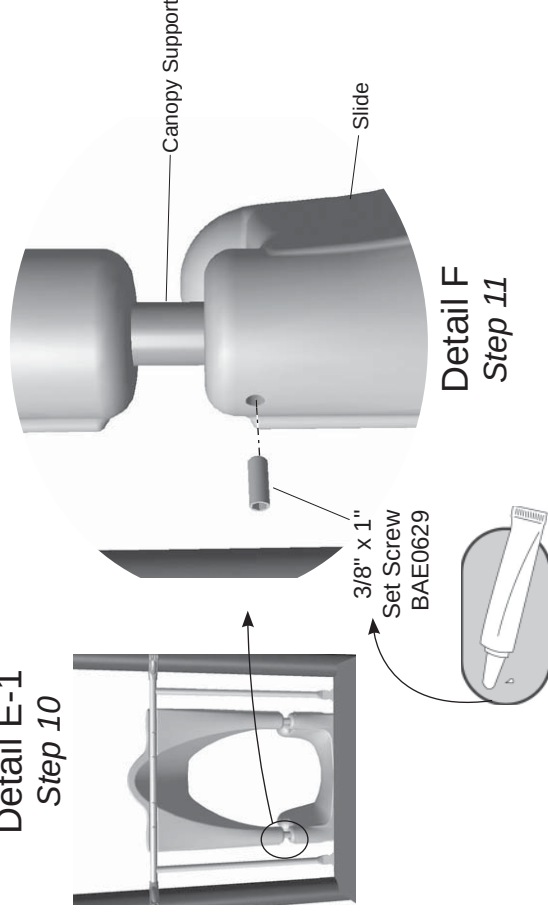
**Barrier Top Rail
AEN1029**



**Detail E-1
Step 10**

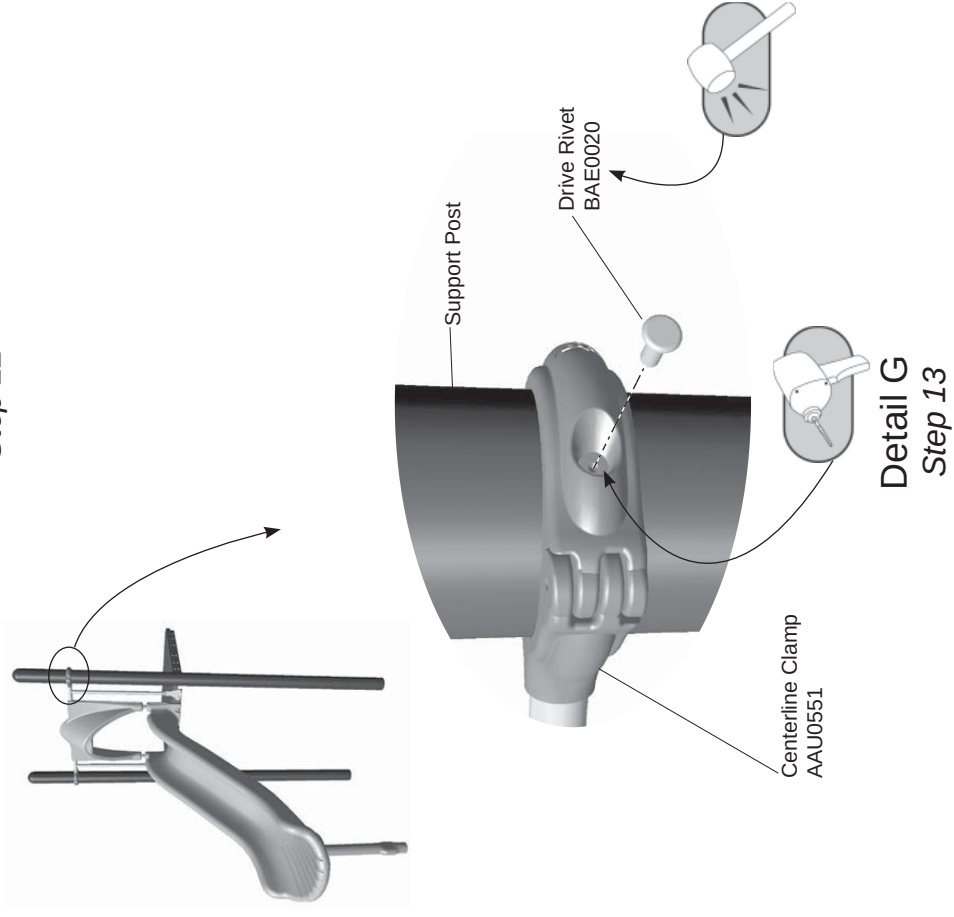
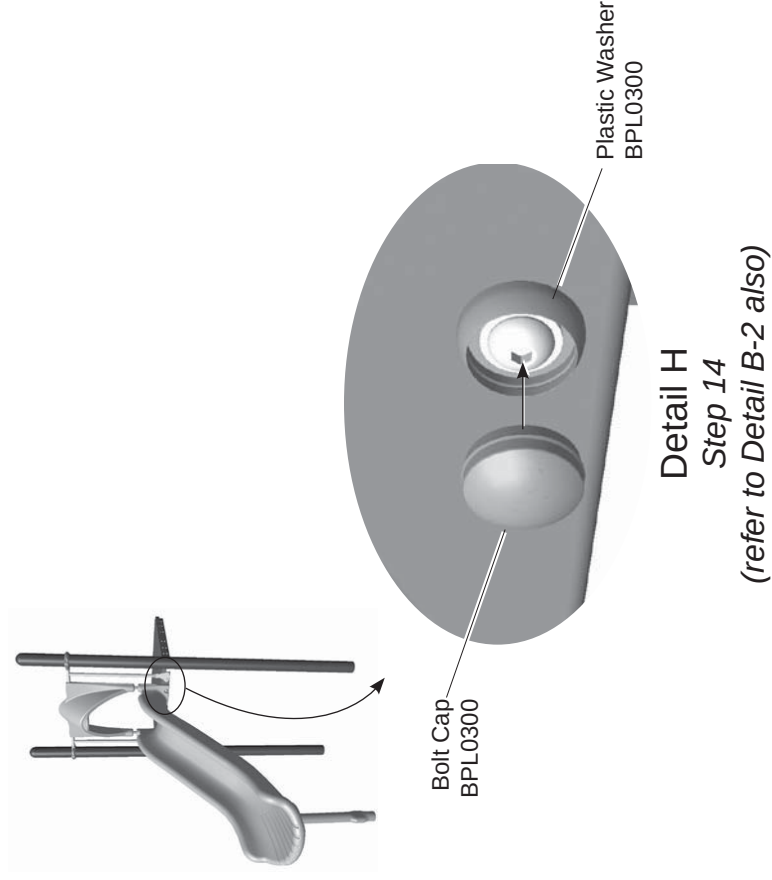


**Detail E-2
Step 10**



**Detail F
Step 11**

Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"7/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



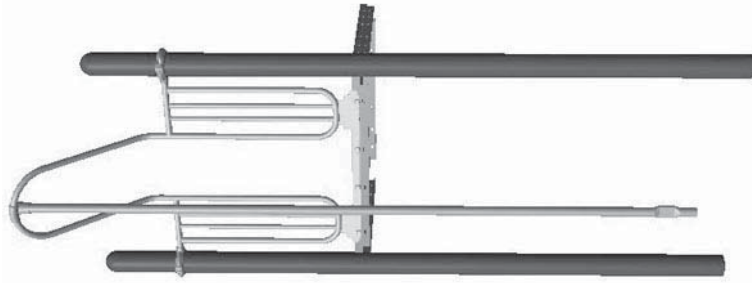
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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8060	36" (915 mm)	66.5 lbs. (30.2 kg)
ZZPM8070	48" (1220 mm)	68.4 lbs. (31.1 kg)
ZZPM8080	60" (1525 mm)	69.7 lbs. (31.7 kg)
ZZPM8090	72" (1830 mm)	71.6 lbs. (32.5 kg)

Installation Instructions

Playmakers® Model PM8060,
PM8070, PM8080, and PM8090
Sliding Pole

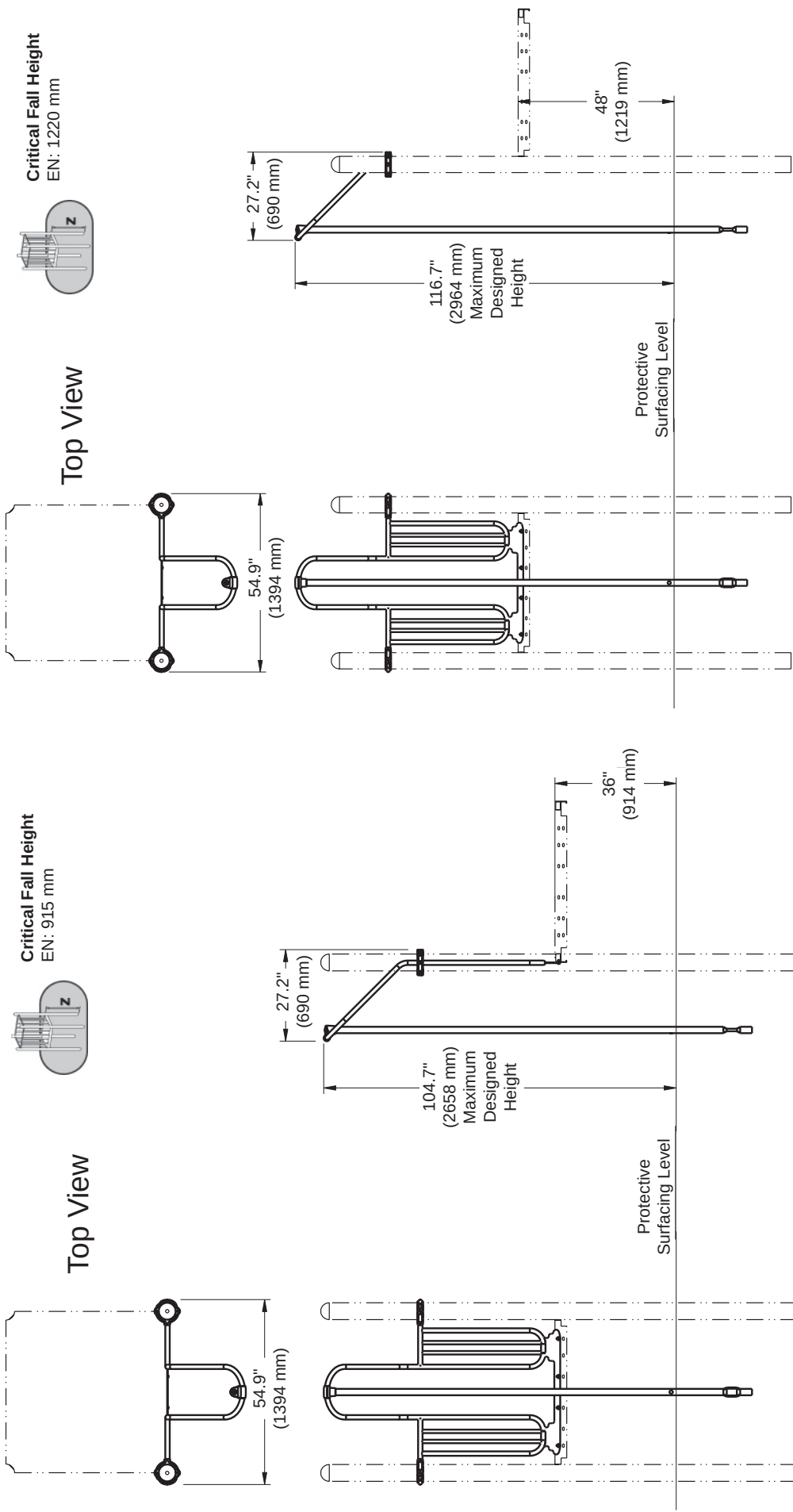
36 in. (915 mm), 48 in. (1220 mm),
60 in. (1525 mm), and 72 in. (1830 mm) Decks

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: (refer to table)
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

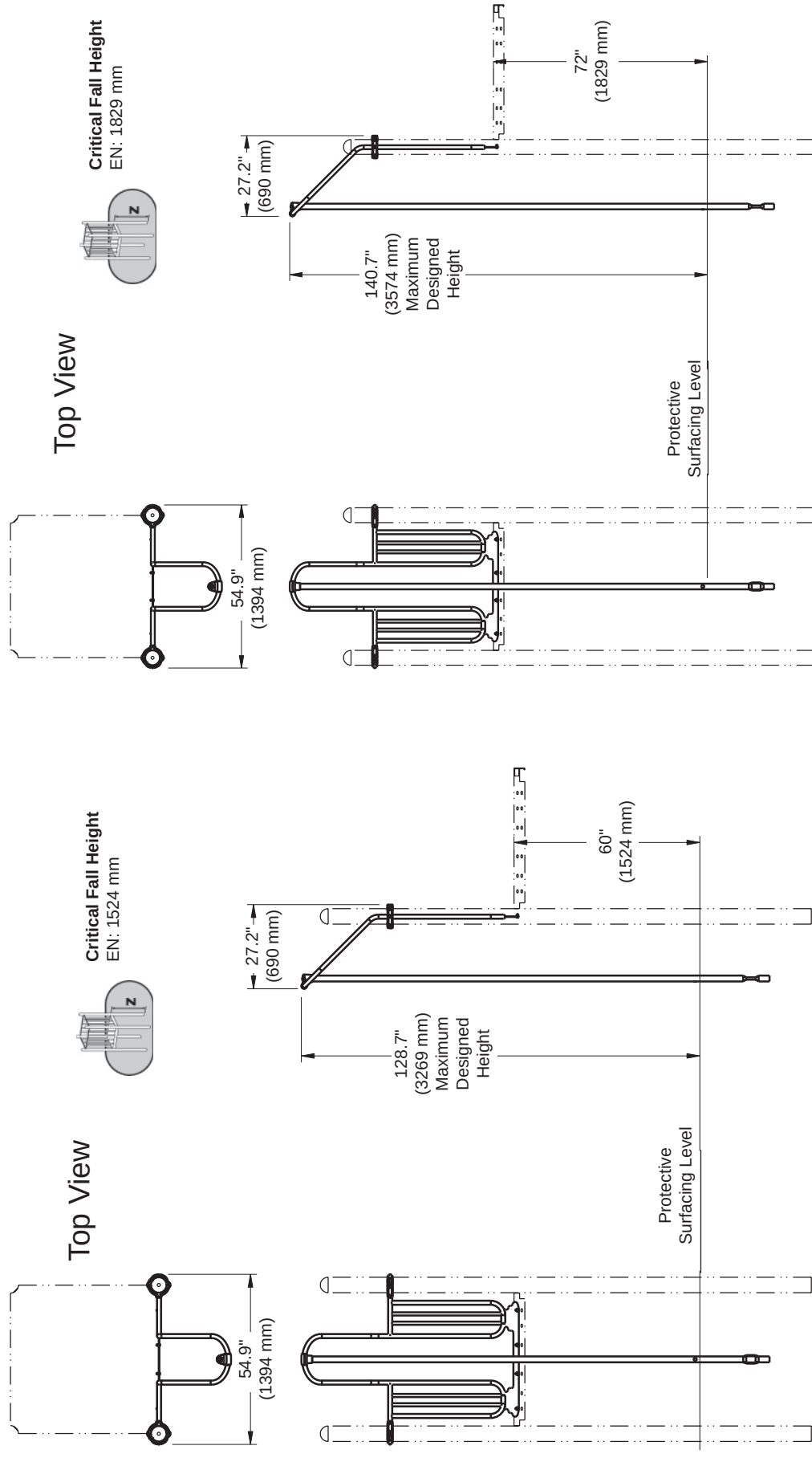
Installation Instructions



Elevation View
36 in. (914 mm) Deck

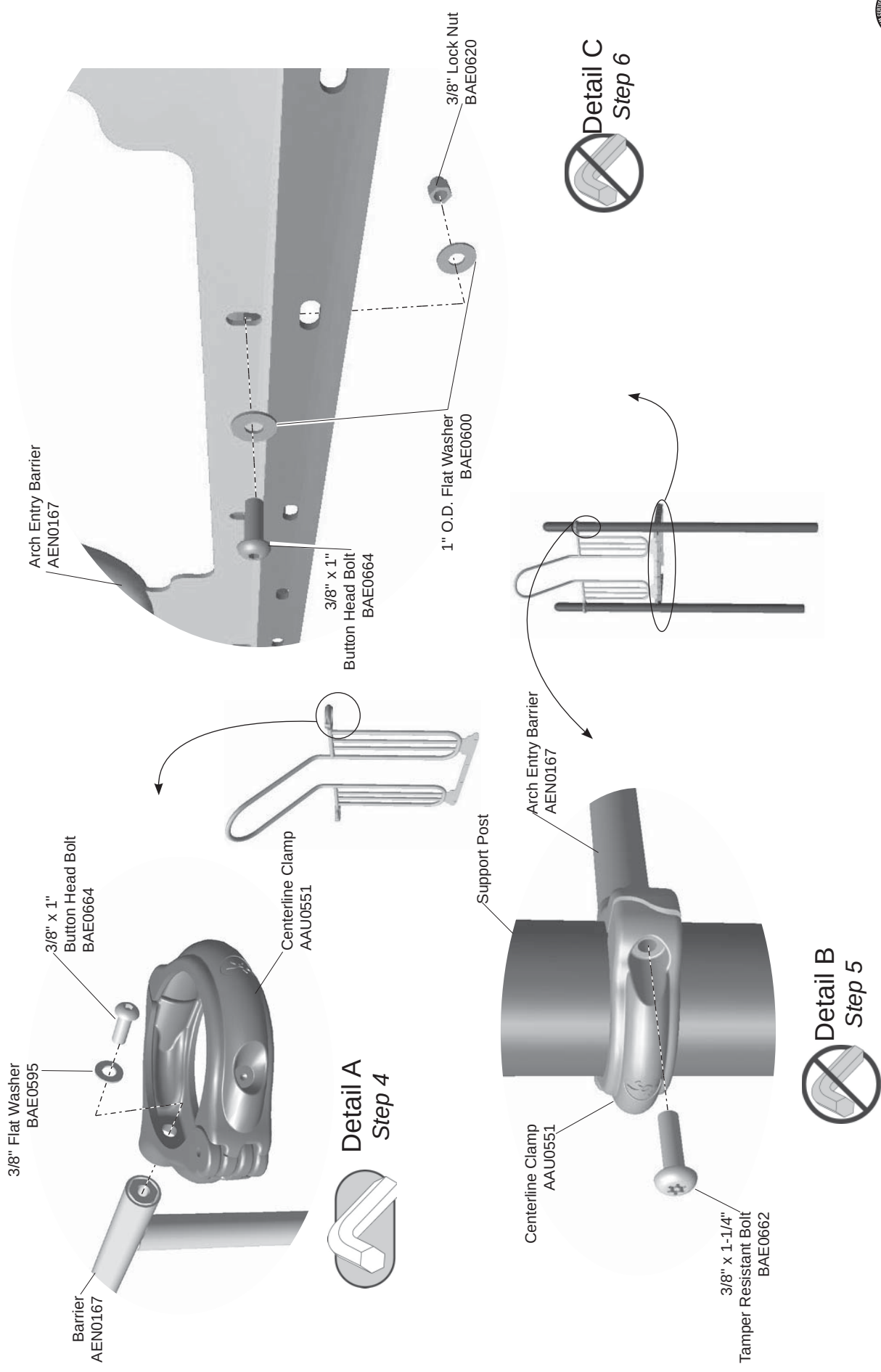
Elevation View
48 in. (1219 mm) Deck

Installation Instructions

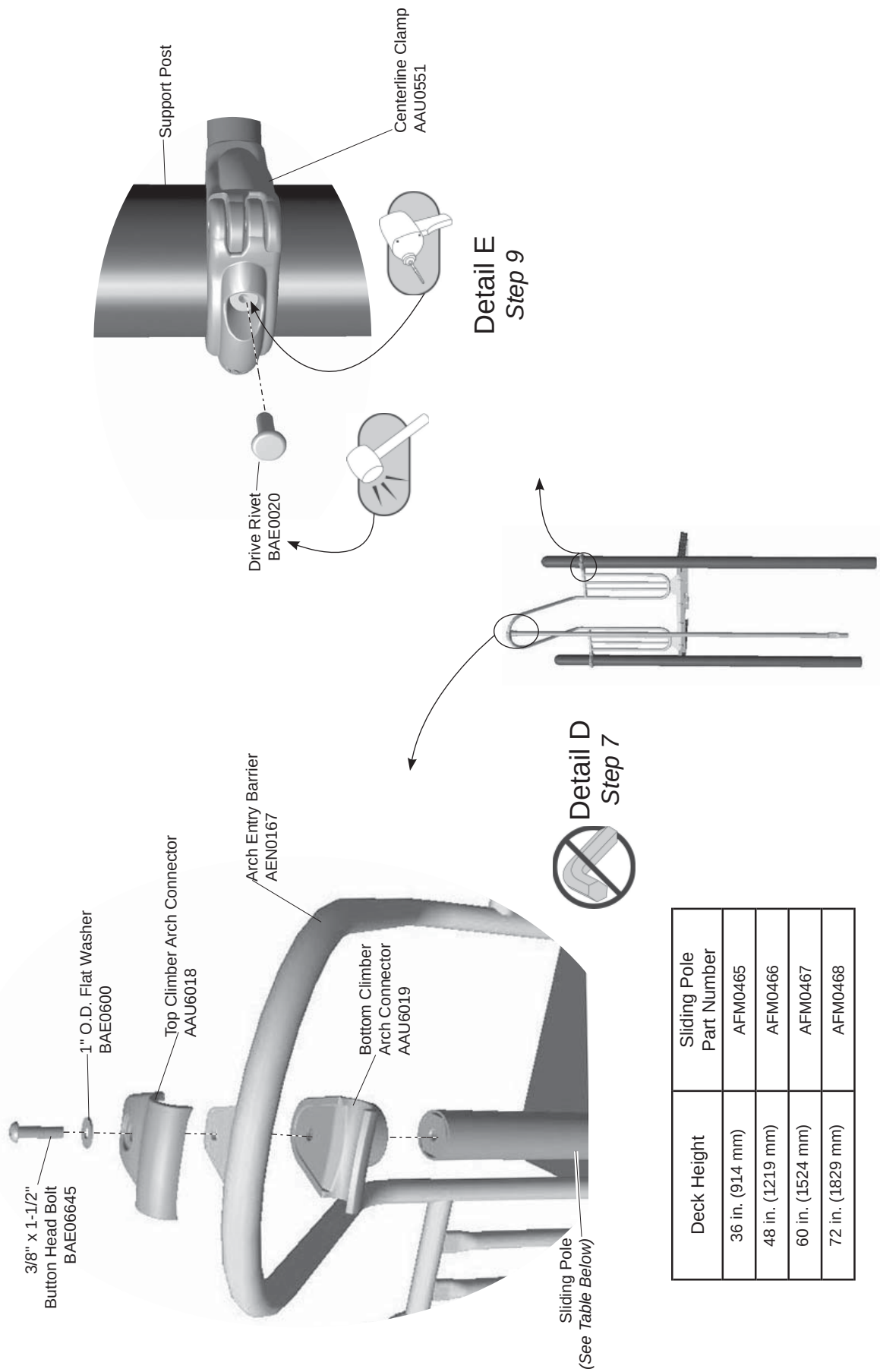


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Deck Height	Sliding Pole Part Number
36 in. (914 mm)	AFM0465
48 in. (1219 mm)	AFM0466
60 in. (1524 mm)	AFM0467
72 in. (1829 mm)	AFM0468



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate holes as shown in the **Footing Details**.

Attach the clamps to the arch entry barrier.

__Step 4: Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

__Step 5: Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

__Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. The barrier can be attached to either the *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Attach the sliding pole to the barrier.

__Step 7: Attach the sliding pole to the barrier. See **Detail D**. Select the sliding pole, the top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Place the sliding pole into the excavated footing, and attach as shown.

Final Details.

__Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - SLIDING POLE 36 in. (914 mm) DECK (ZZPMM8060)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0465	FAB METAL - 36" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 60 in. (1524 mm) DECK (ZZPMM8080)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0467	FAB METAL - 60" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 48 in. (1219 mm) DECK (ZZPMM8070)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0466	FAB METAL - 48" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

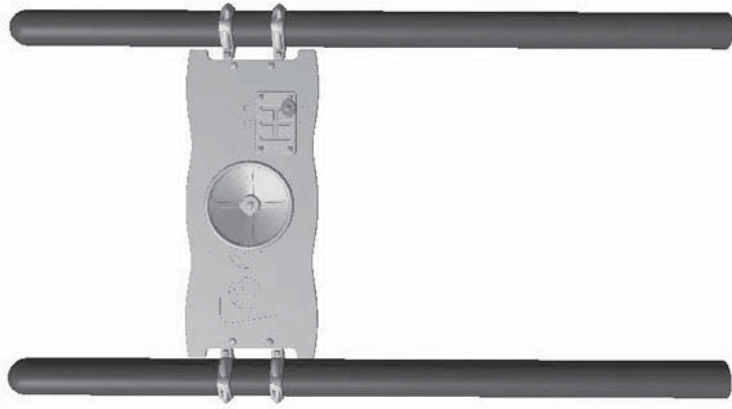
PM - SLIDING POLE 72 in. (1829 mm) DECK (ZZPMM8090)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0468	FAB METAL - 72" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



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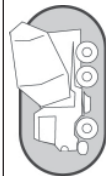
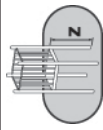
Assembly View

Installation Instructions Playmakers® Model PM4406 Accessible Driving Panel

Installation Preparation

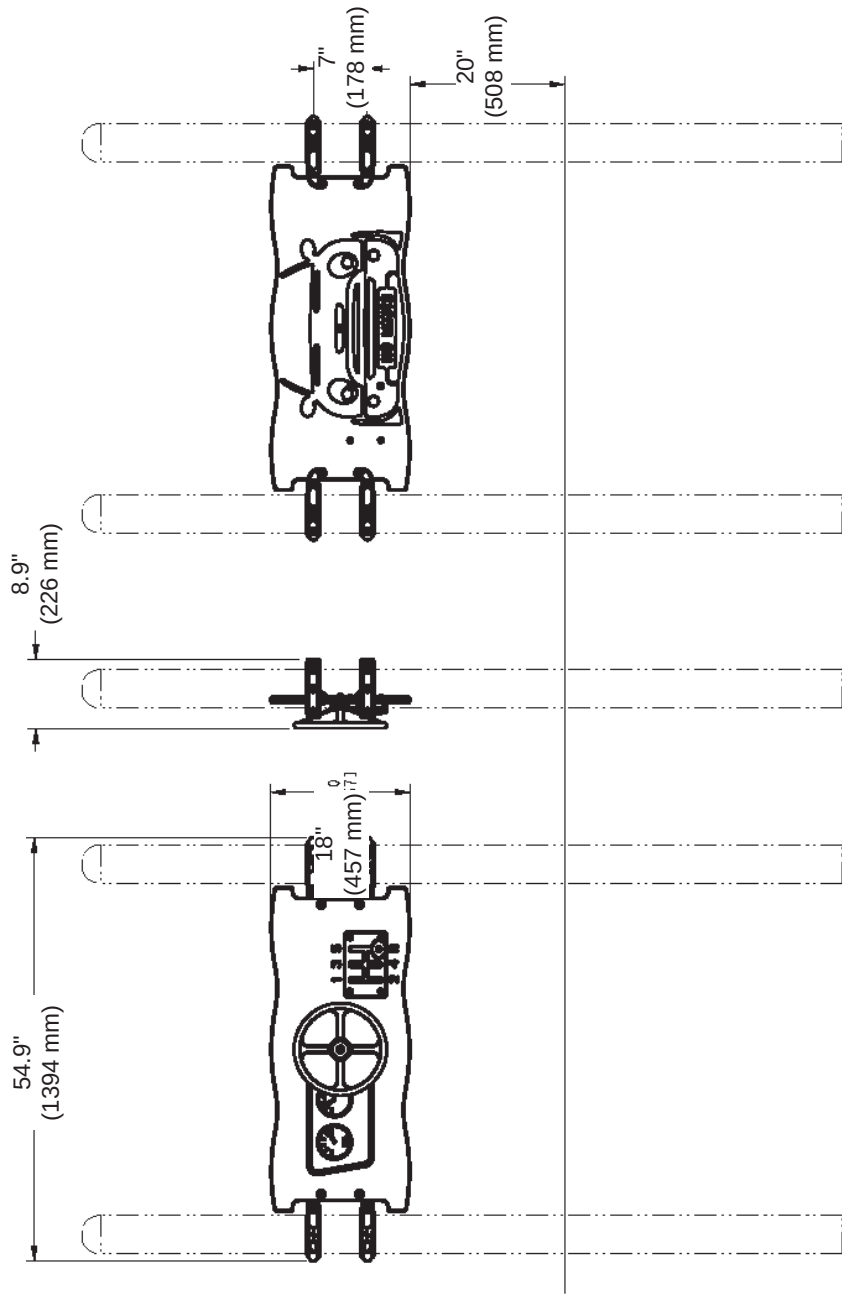
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Weight: *31.6 lbs. (14.4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

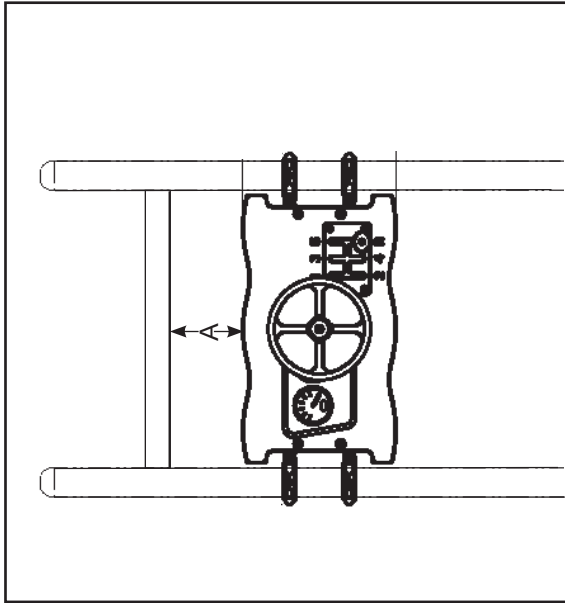
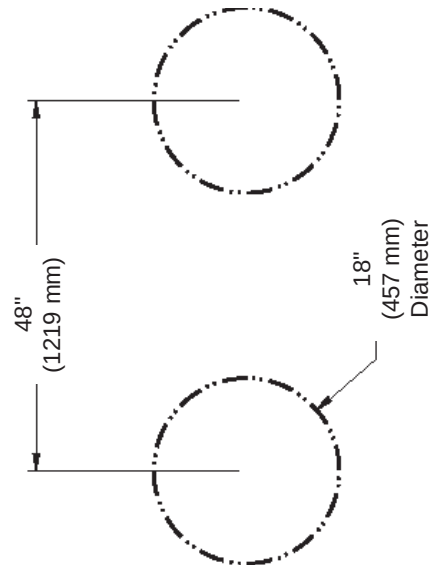
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View



Footing Diagram



Important Note:

- When panel is positioned under a deck, the innermost point on the top edge of the panel (A) must be less than 3 in. (75 mm) from the bottom edge of the deck/panel or more than 9 in. (230 mm) to prevent any entrapment issues.

Elevation Views

Installation Instructions

Deck / Platform Installation

Note:

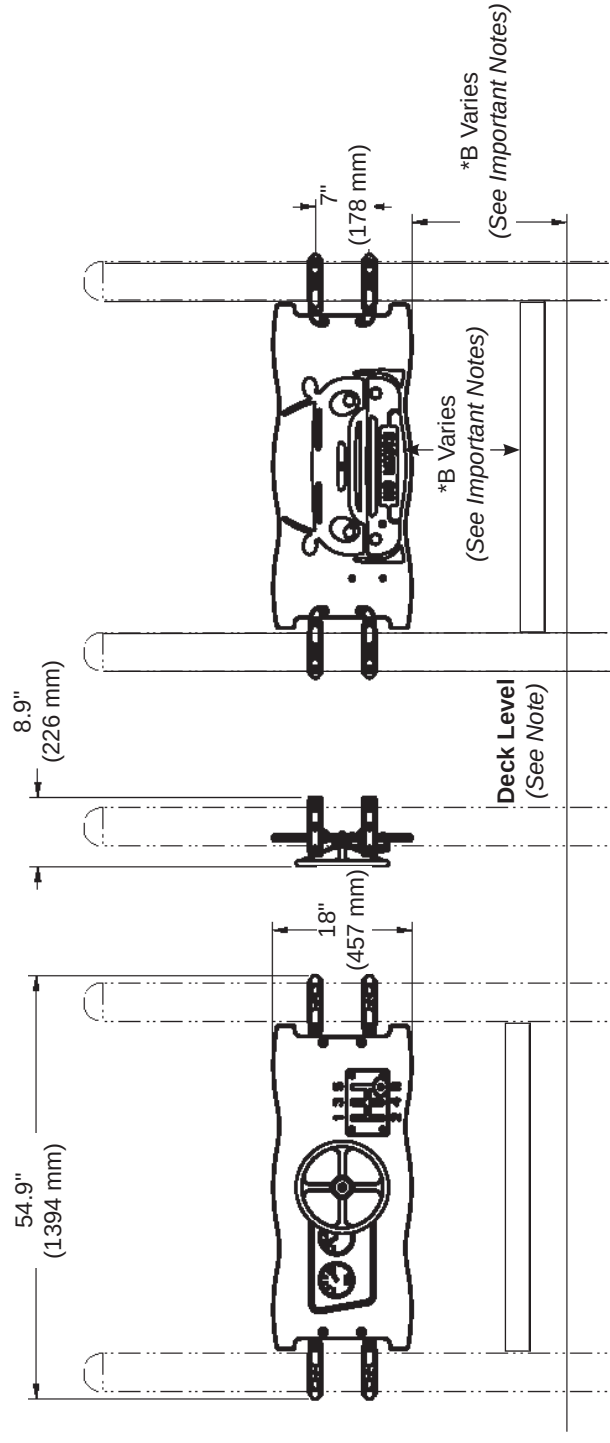
When panel is used as a guardrail, the maximum deck height above surfacing is:

- 30" (762 mm) for 2 to 5 years old.
- 48" (1219 mm) for 5 to 12 years old.

*Important Notes:

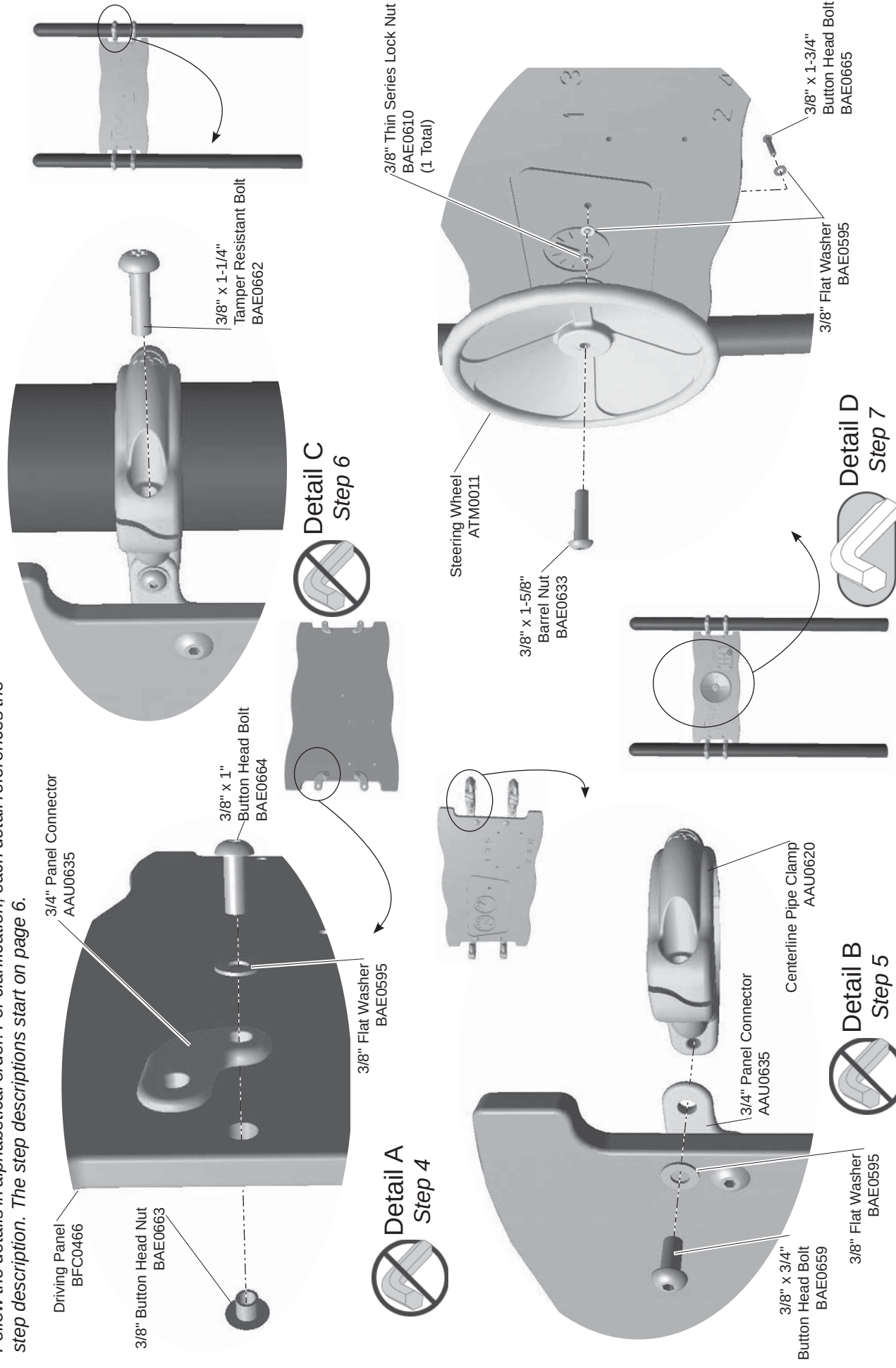
When panel is used as a guardrail, the minimum height requirements must be maintained to prevent unintentional falls from a platform.

- Ages 2 to 5 years old: The top (A) innermost surface of the guardrail should be at least 29" (737 mm) high and the lower (B) innermost edge should be no more than 23" (584 mm) above the platform.
- Ages 5 to 12 years old: The top (A) innermost surface of the guardrail should be at least 38" (965 mm) high and the lower (B) outermost edge should be no more than 28" (711 mm) above the platform.

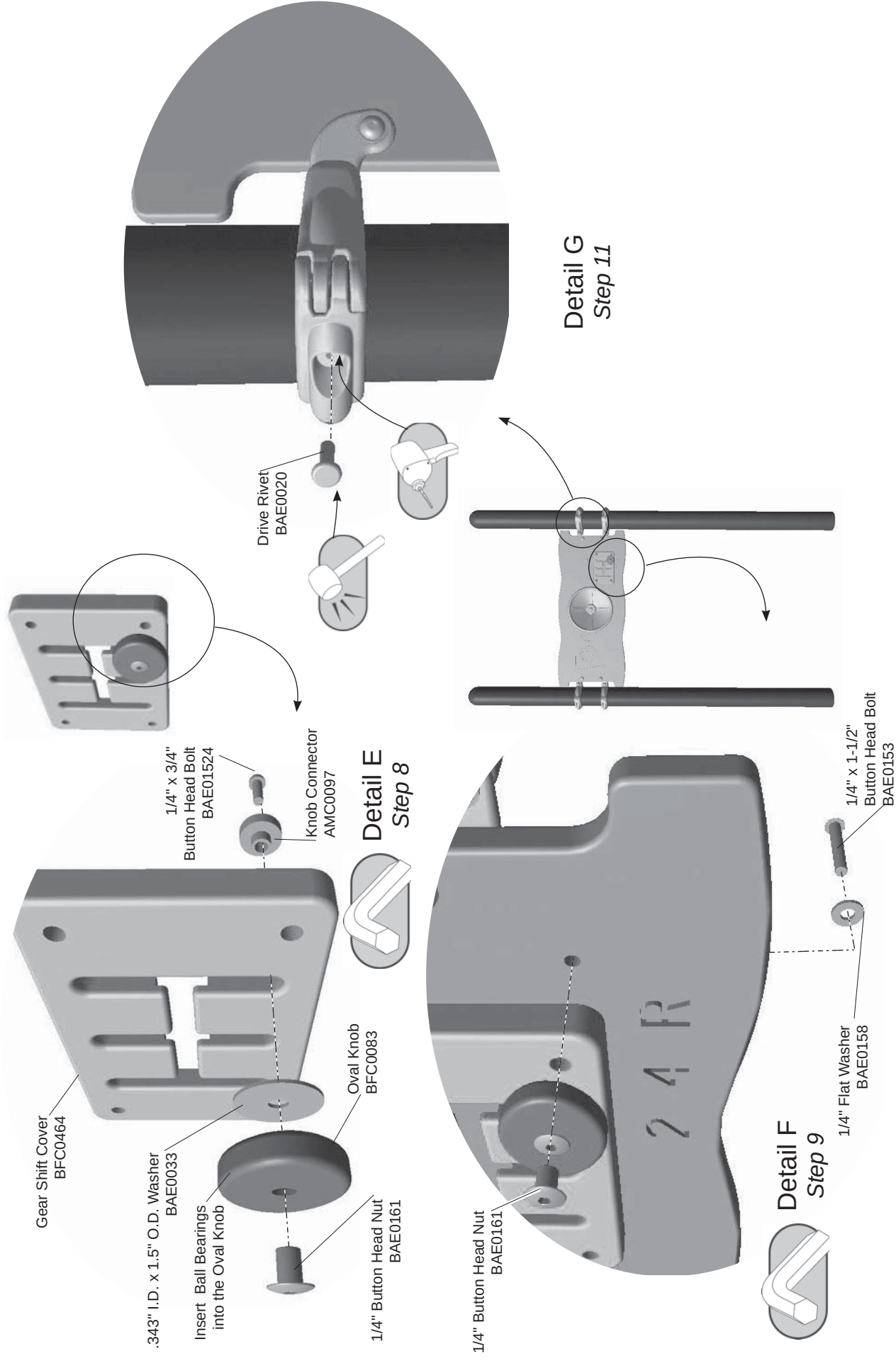


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. .

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Determine location of the panel by referring to the master structure layout drawing. Decide the orientation of the panel - an automobile is routed on one side and a dashboard on the other.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the accessible driving panel, the panel connectors, and the appropriate hardware. There are (4) four connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down on the upper connections and up on the lower connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the clamps and the appropriate hardware. There are (4) four connections. Place the flat side of each clamp against the outside of the panel connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

__Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the clamps and the appropriate hardware. There are (4) four connections. Move the panel into position on the outside of the posts and close the clamps. Attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Remove the clamps before flipping connector and reattach as before on the panel side. Both of the clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Attach the steering wheel to the panel.

__Step 7: Attach the steering wheel to the panel. See **Detail D**. Select the steering wheel and the appropriate hardware. There is (1) one connection. Attach as shown. Fully tighten the connection. The steering wheel should still turn freely.

Attach the gear shift to the panel.

__Step 8: Assemble the gear shift. See **Detail E**. Select the gear shift cover plate, oval knob, knob connector, a bag of ball bearings, and the appropriate hardware. There is (1) one connection. Insert 4 or 5 ball bearings into the cut out side of the oval knob. Cover with the washer to hold the ball bearings in place. Attach as shown. Fully tighten the connection; being careful not to exceed the torque recommendations. Move the knob through the gear shift cover plate to ensure freedom of movement.

__Step 9: Attach the gear shift to the panel. See **Detail F**. Select the gear shift assembly and the appropriate hardware. There are (4) four connections. With the knob side facing out, position the gear shift assembly between the numbers on the "dashboard" side of the panel and align holes. Attach as shown. Fully tighten the connections. The gear shift should still move smoothly on the plate.

Installation Instructions

Final Details.

___**Step 10:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___**Step 11:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___**Step 12:** For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

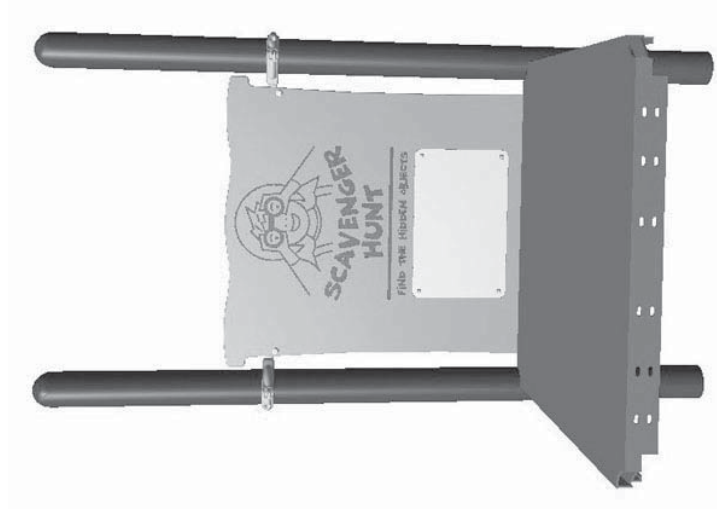
PM4406 - ACCESSIBLE DRIVING PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
AMC0032	MISC - BAG OF 15, 1/4" S.S. BALL BEARINGS	1
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0033	WASHER - .343" I.D. x 1.500" O.D.	1
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	1
BAE0153	BOLT - 1/4" x 1 1/2" BUTTON HEAD	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	5
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	1
BFC0083	SHEET - OVAL KNOB	1
BFC0464	SHEET - .75" x 5.50" x 8.50" COVER	1
BFC0466	SHEET - .75" x 42.00" x 18.00" ACCESS DRIVING PANEL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

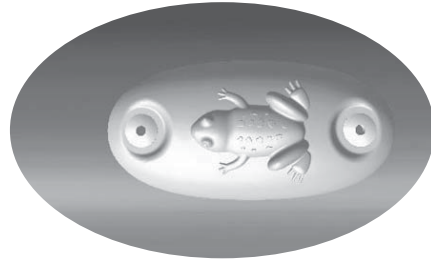


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Assembly View



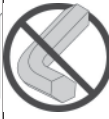
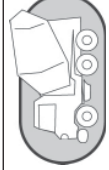
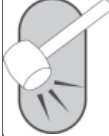
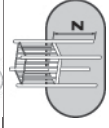
Frog Button
(example of one
of ten buttons)

Installation Instructions Playmakers® Model PM4546 Scavenger Hunt Deck Level

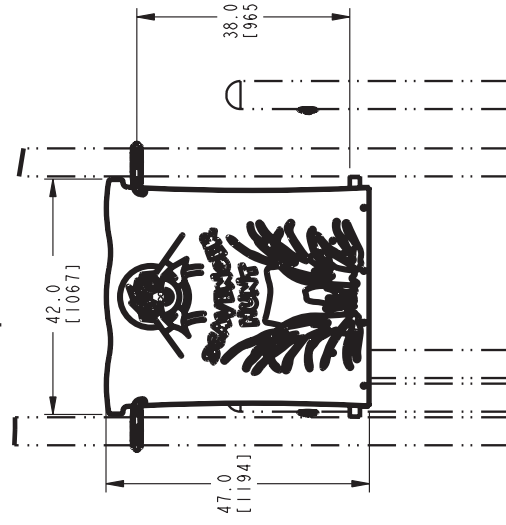
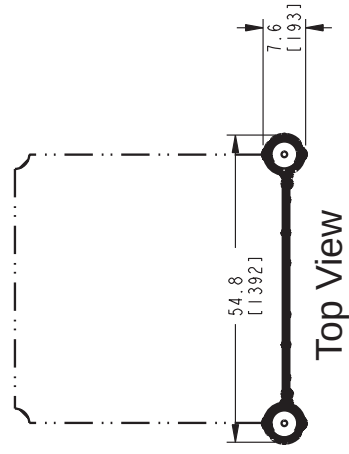
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	*52.8 lbs. (24 kg)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

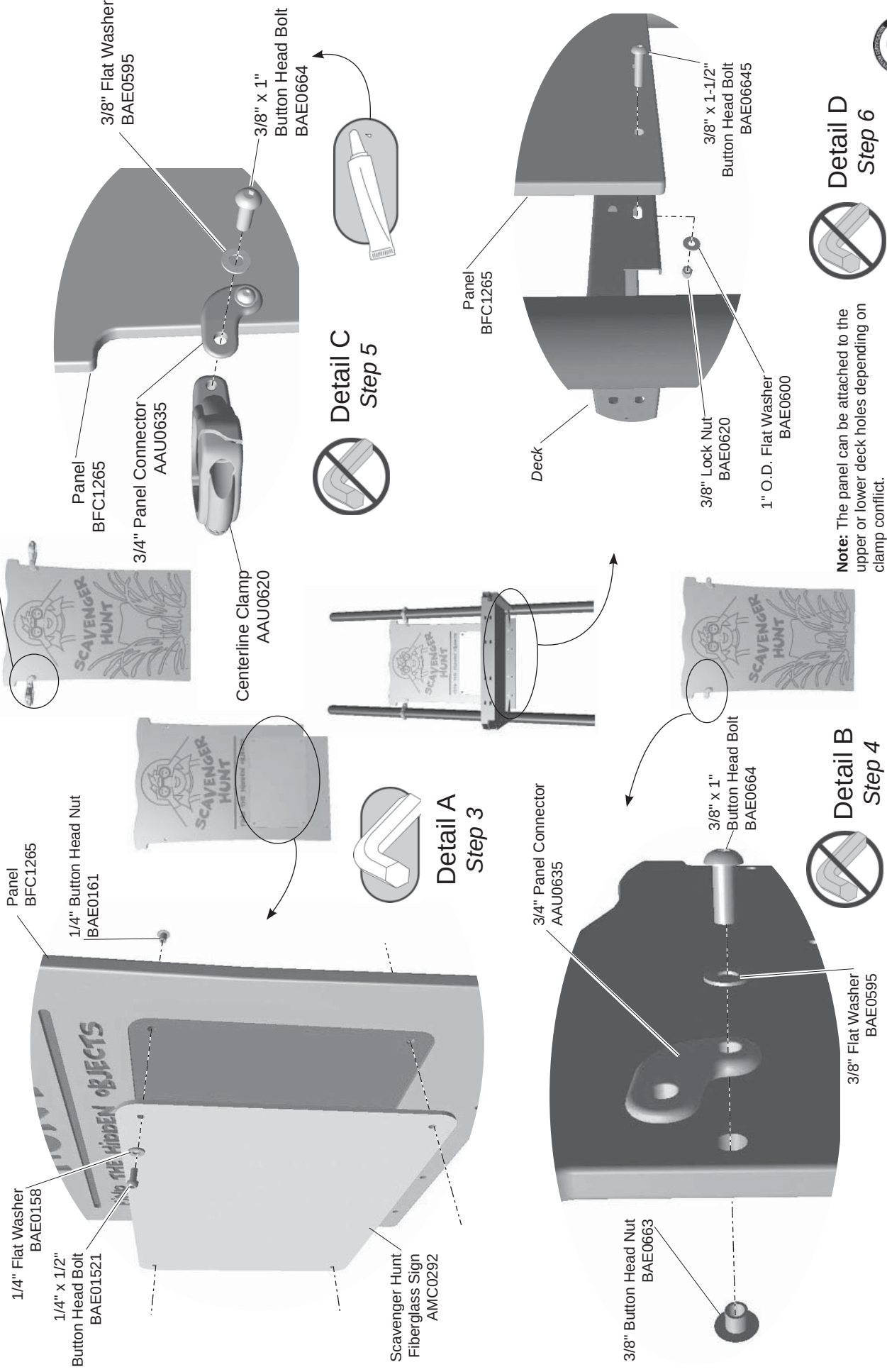
Installation Instructions



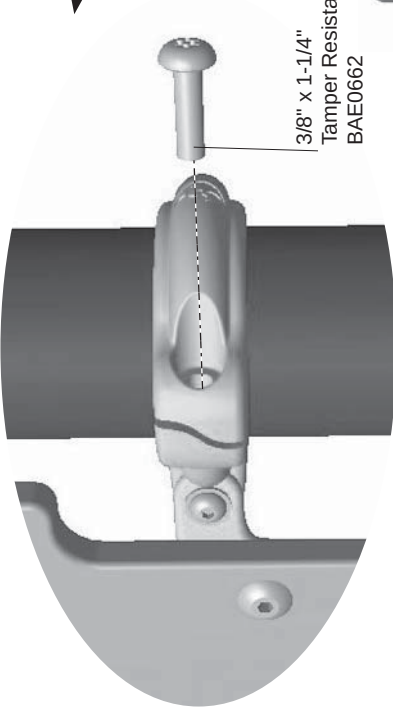
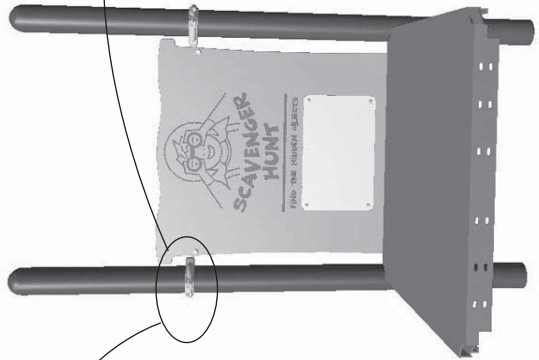
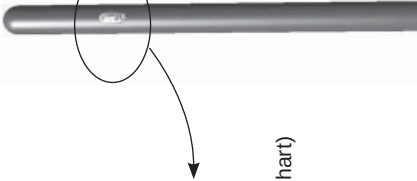
Locate buttons on support posts
as various heights and locations
around the playground.

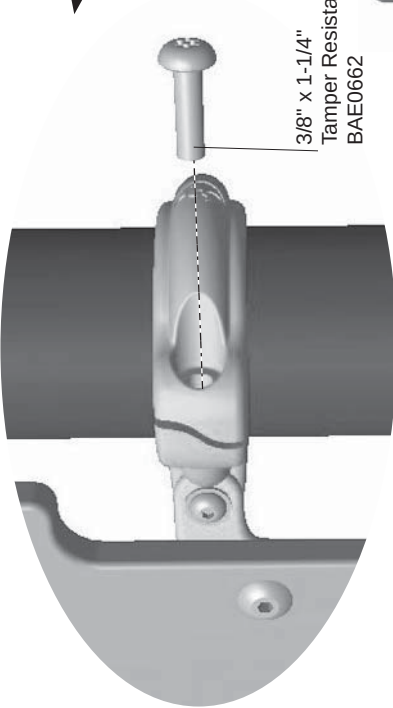
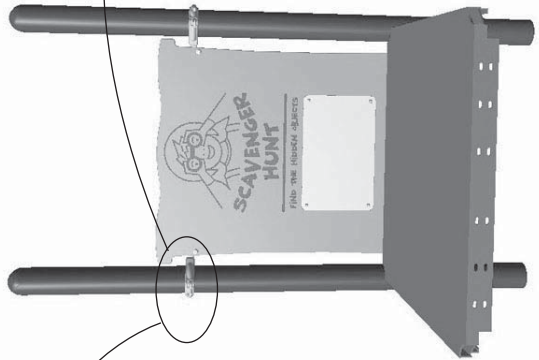
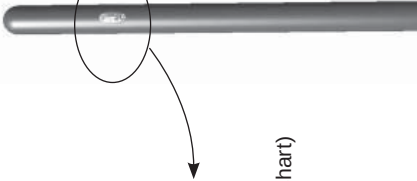
Installation Instructions

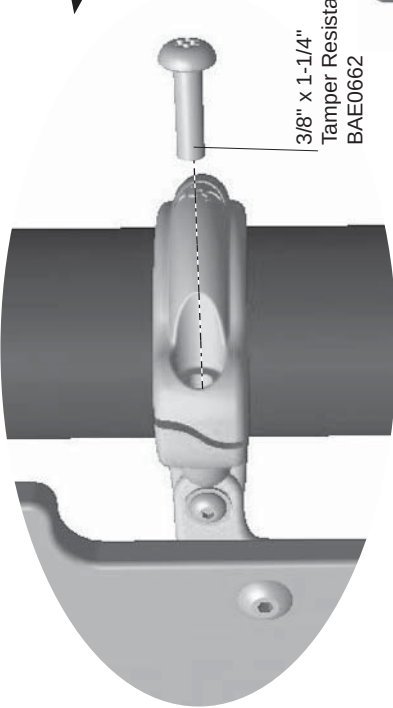
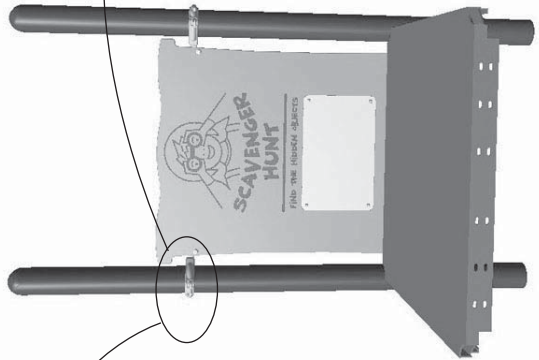
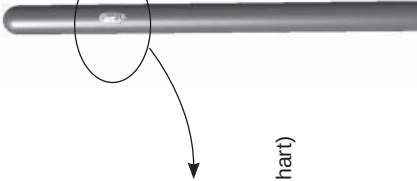
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

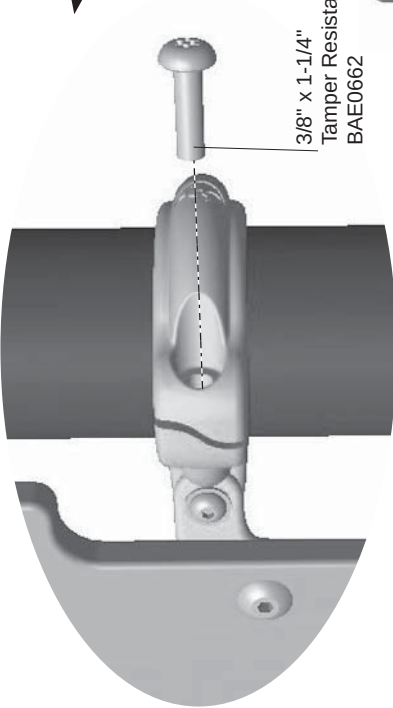
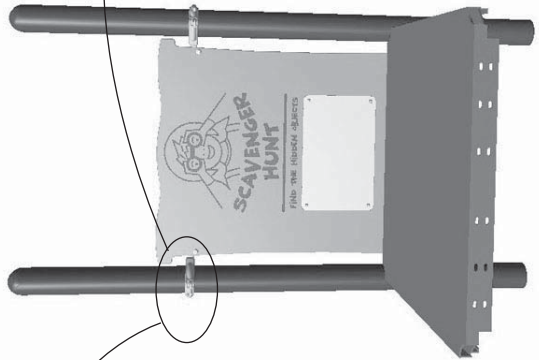
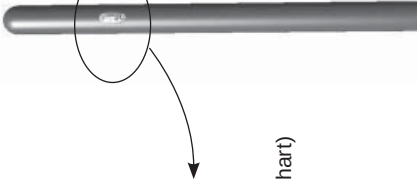


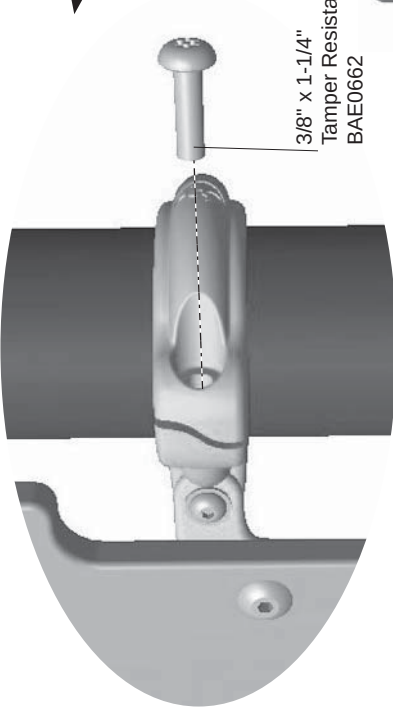
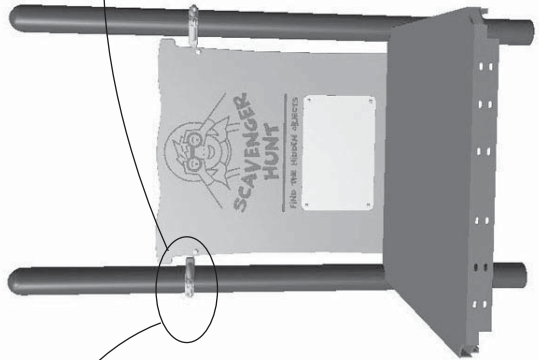
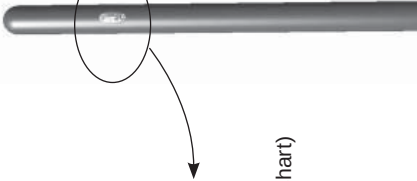
Installation Instructions

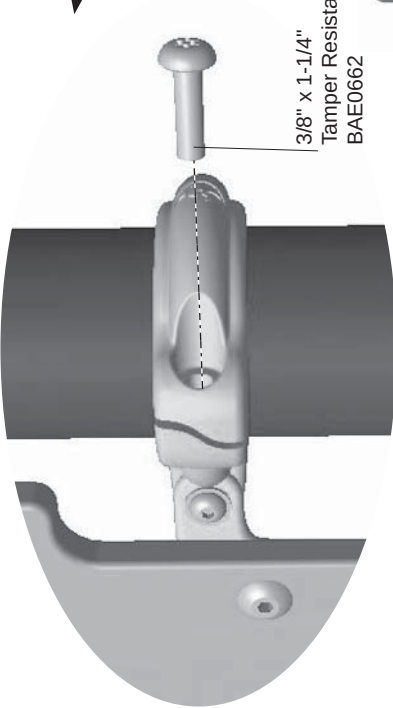
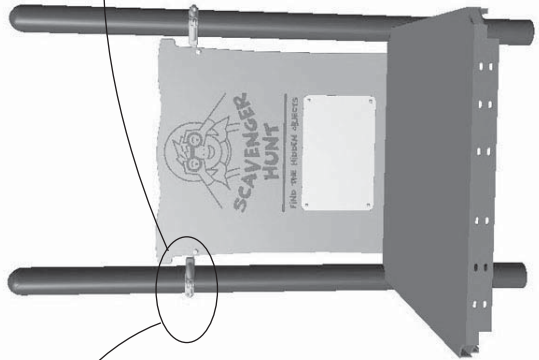
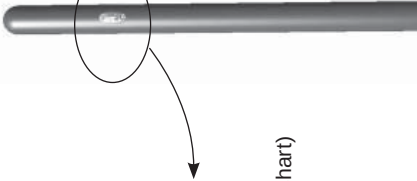




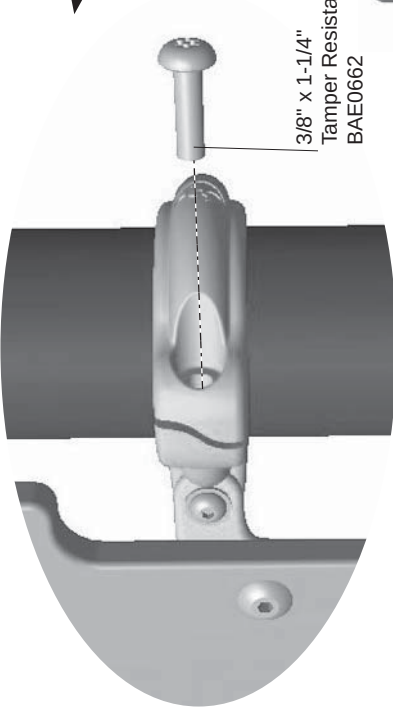
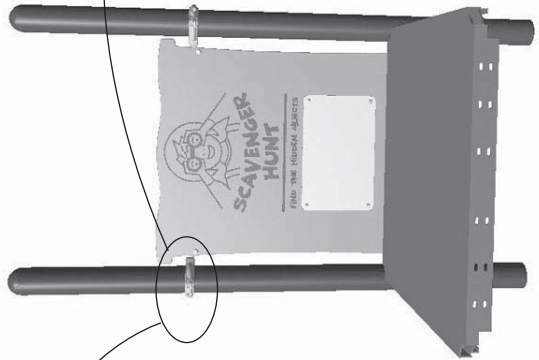
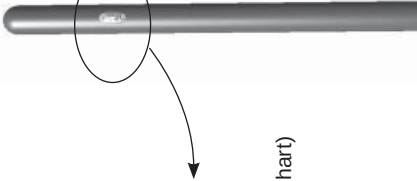




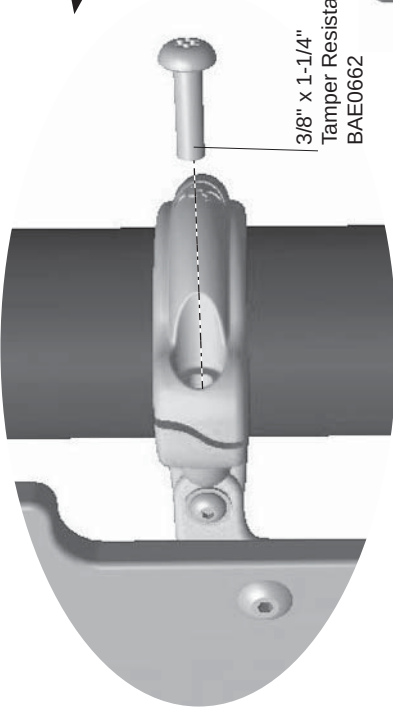
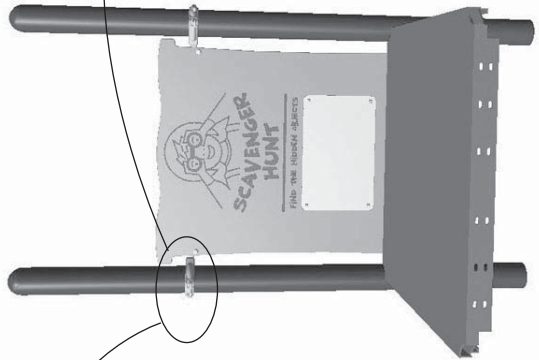
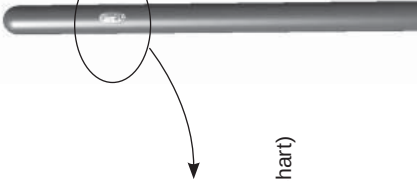




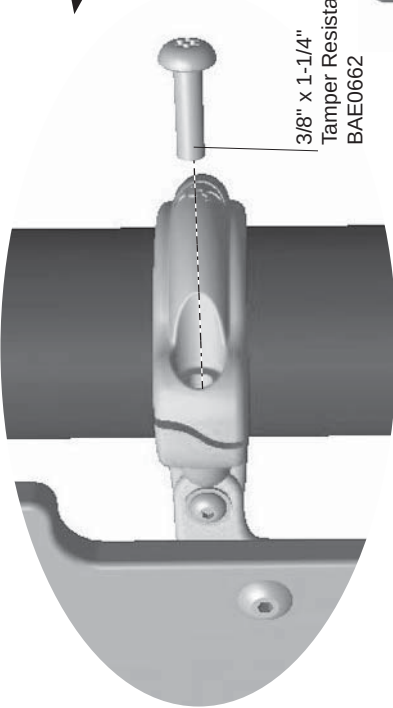
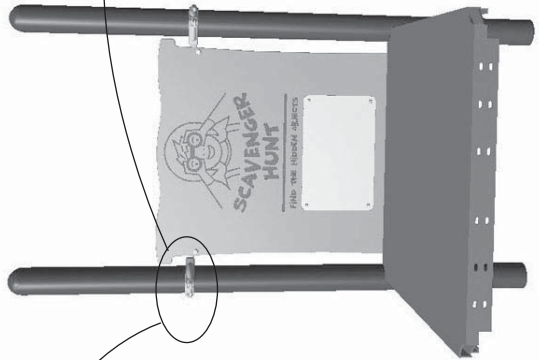
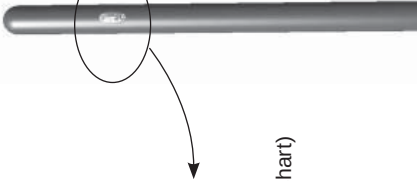




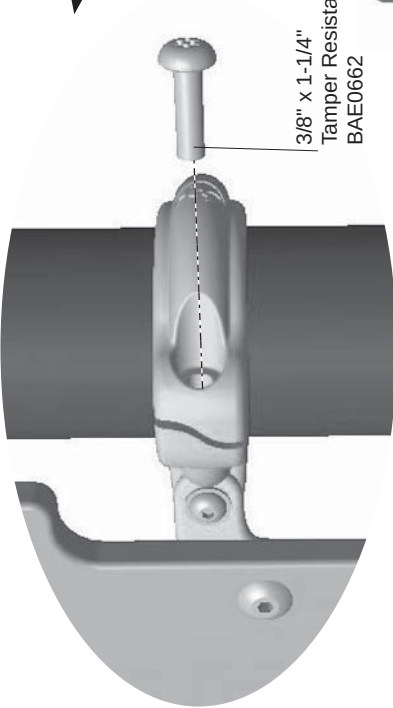
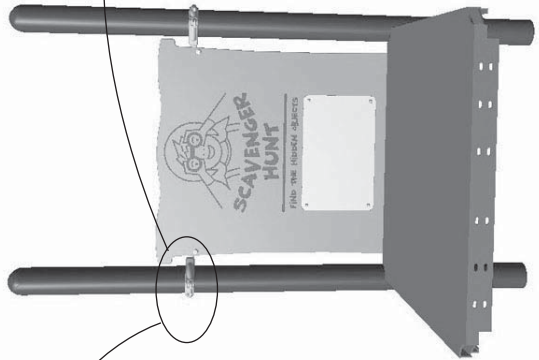
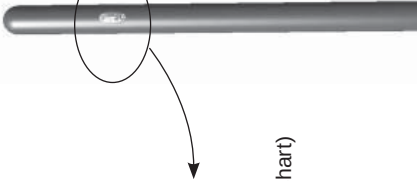




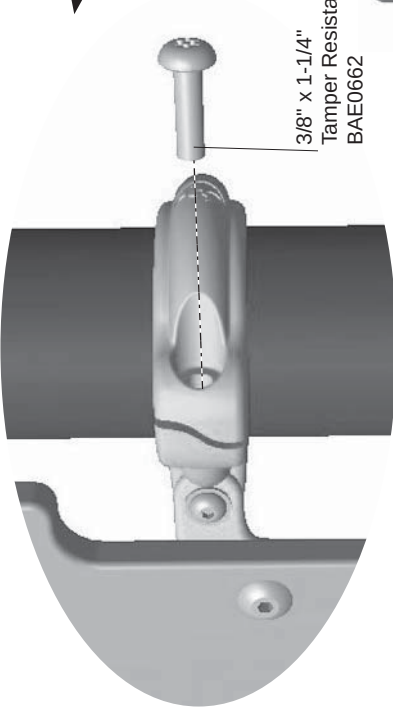
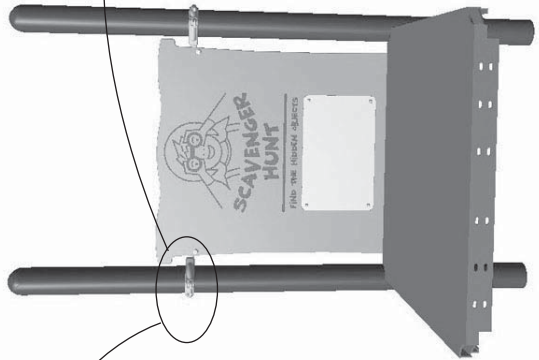
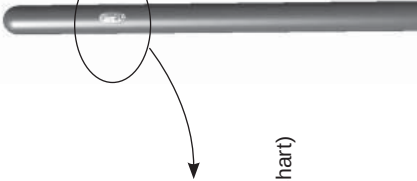




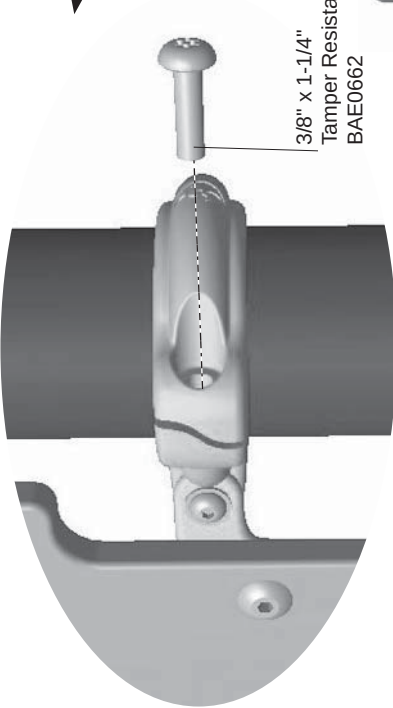
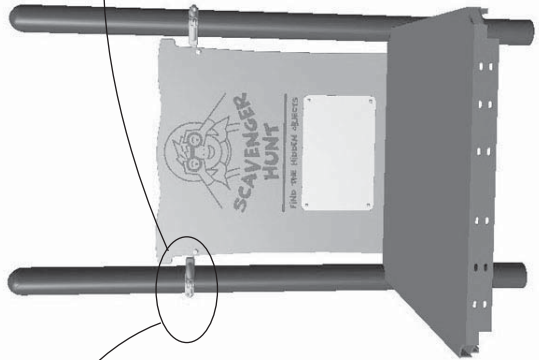
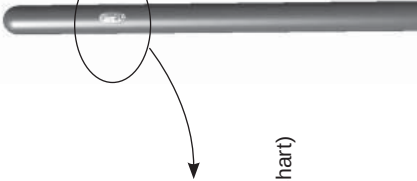




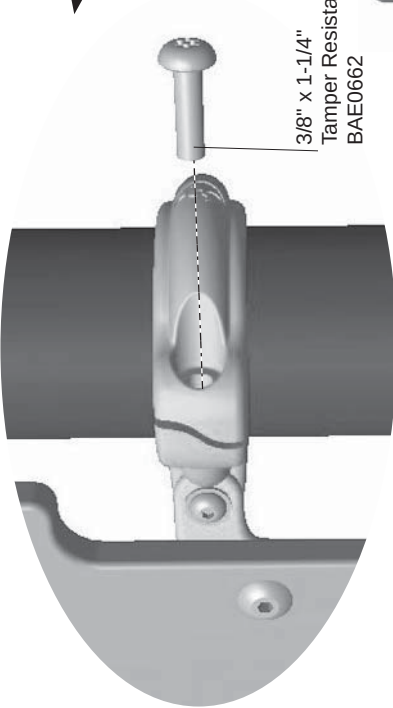
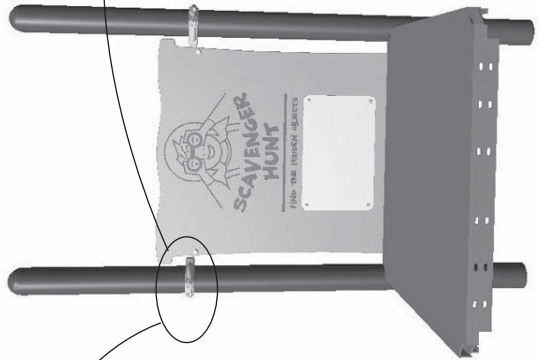
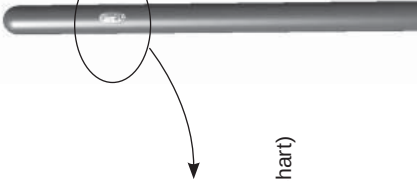




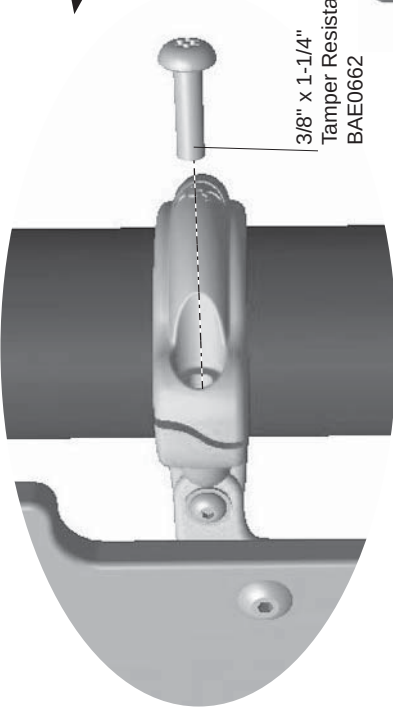
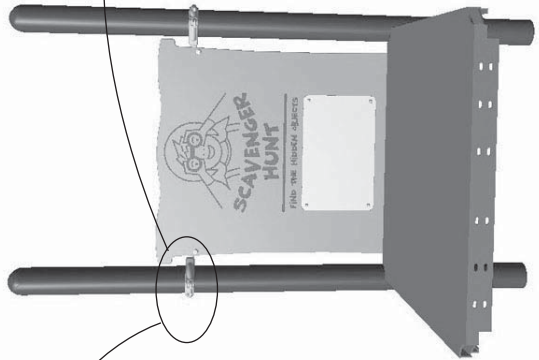
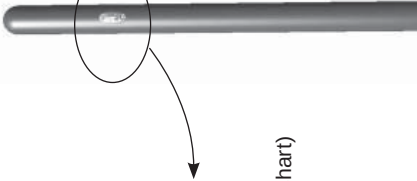




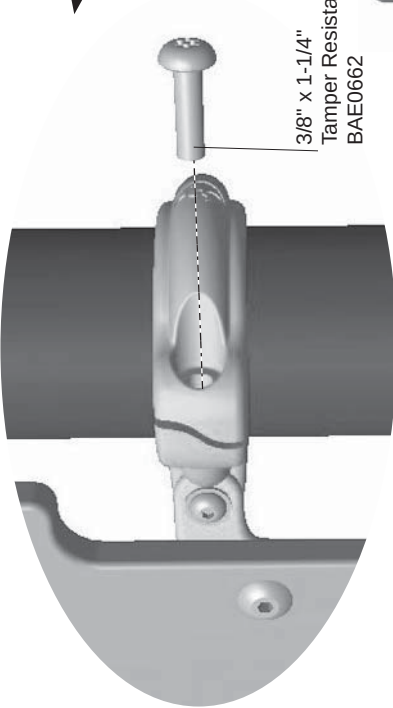
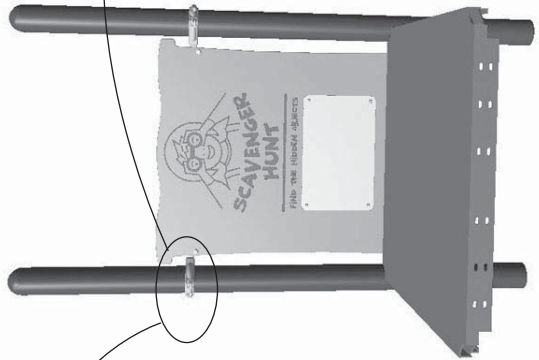
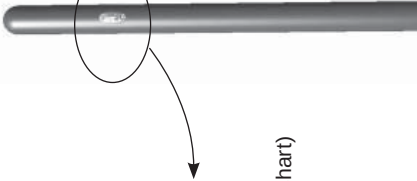




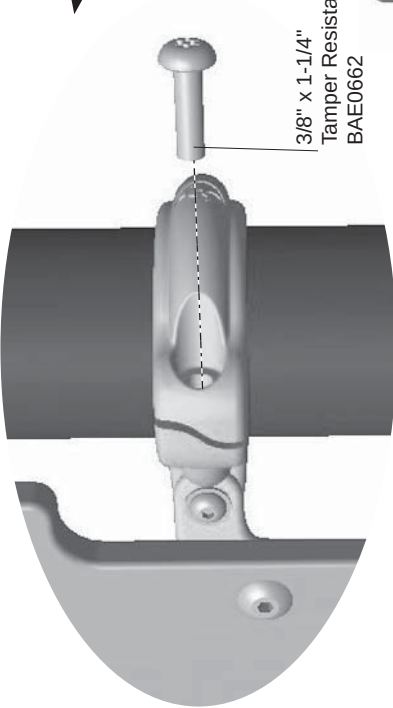
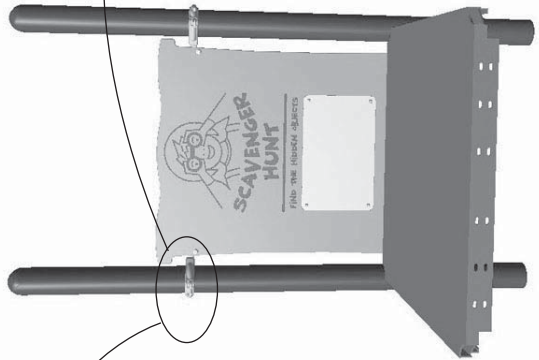
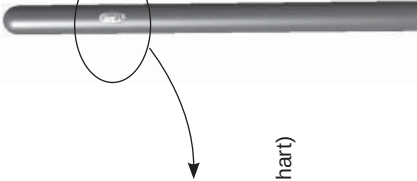




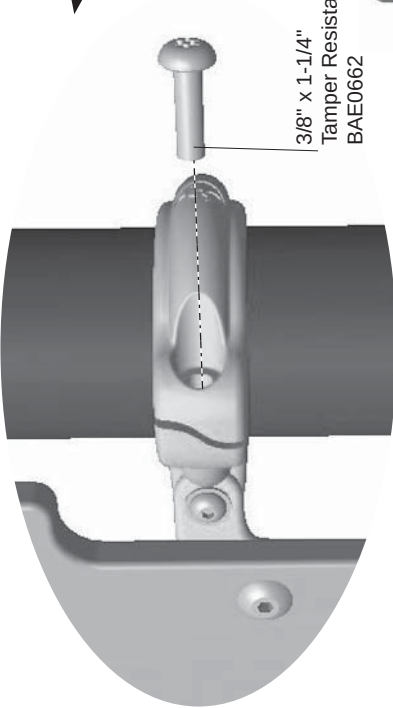
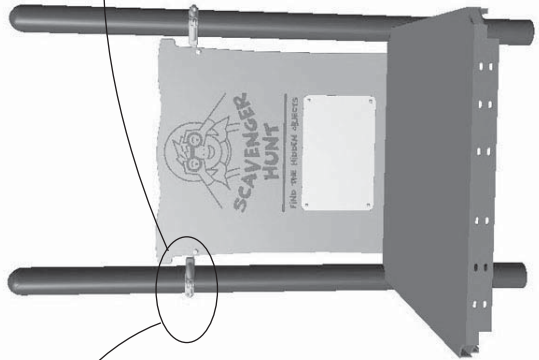
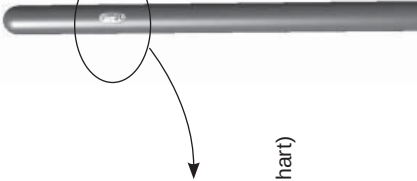




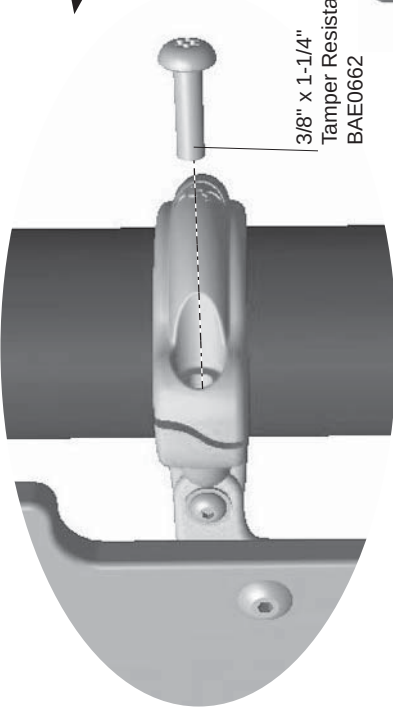
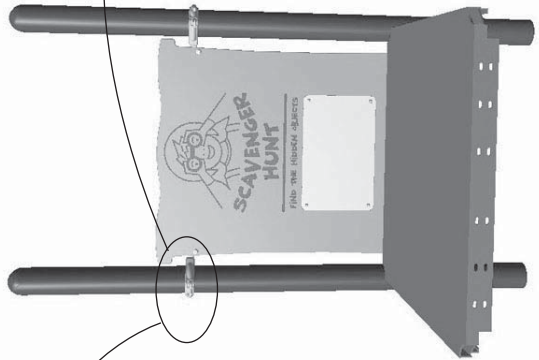
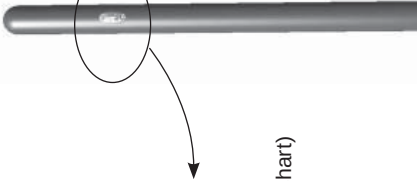




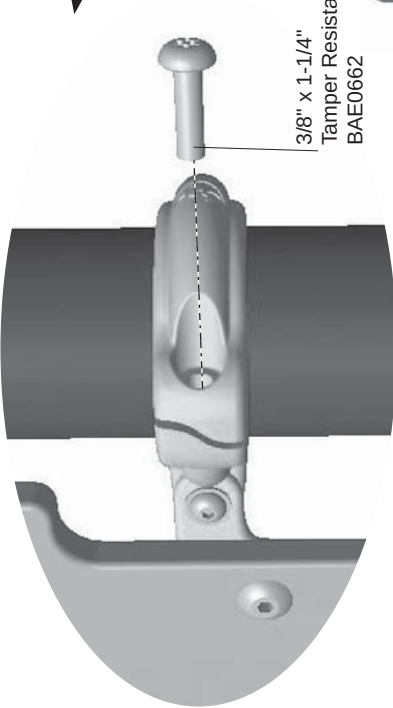
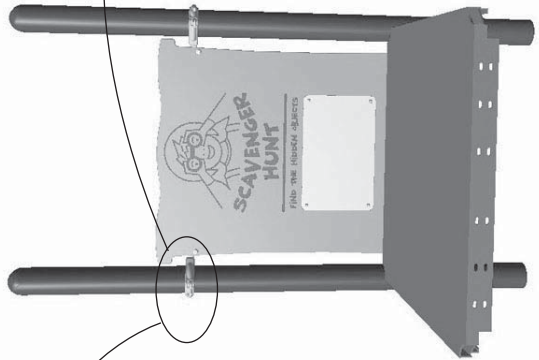
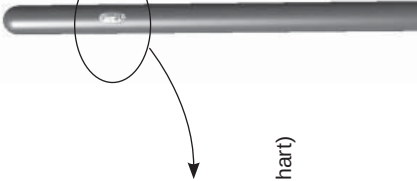




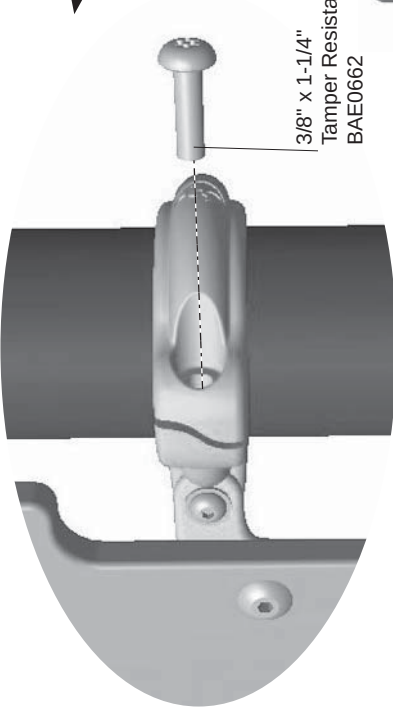
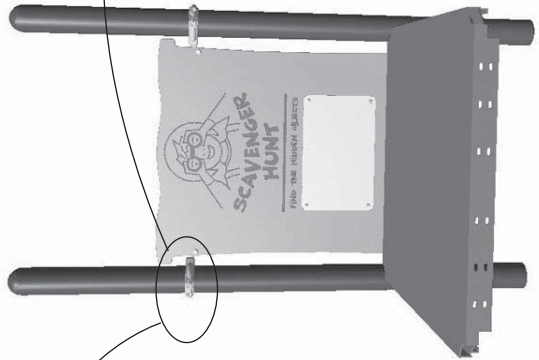
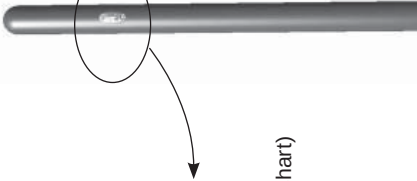




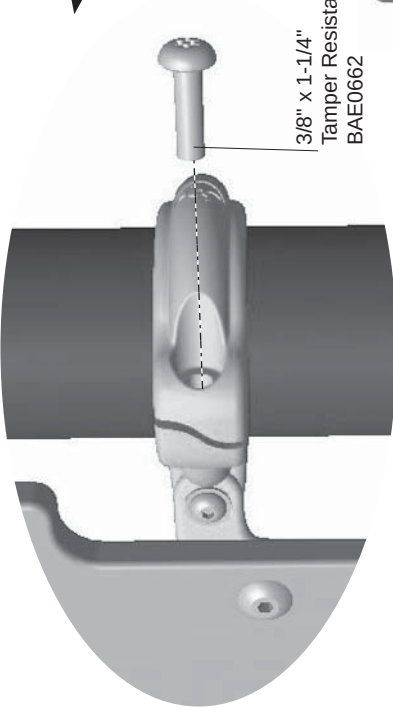
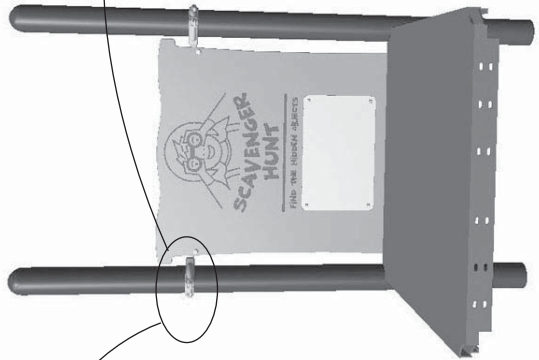
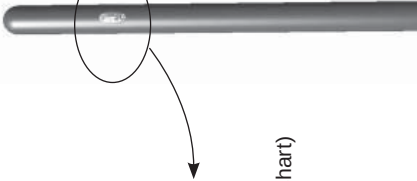




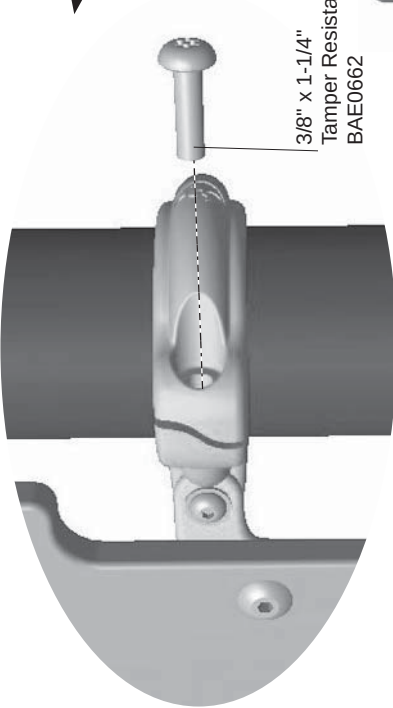
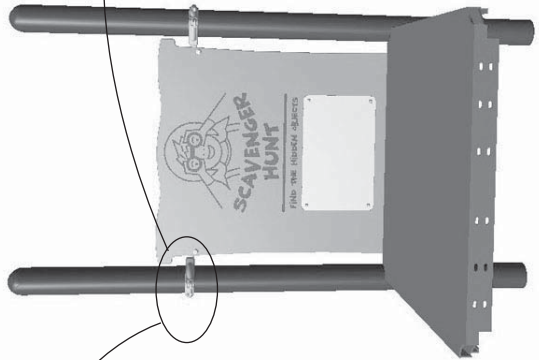
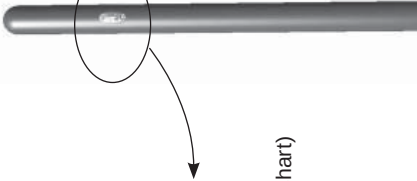




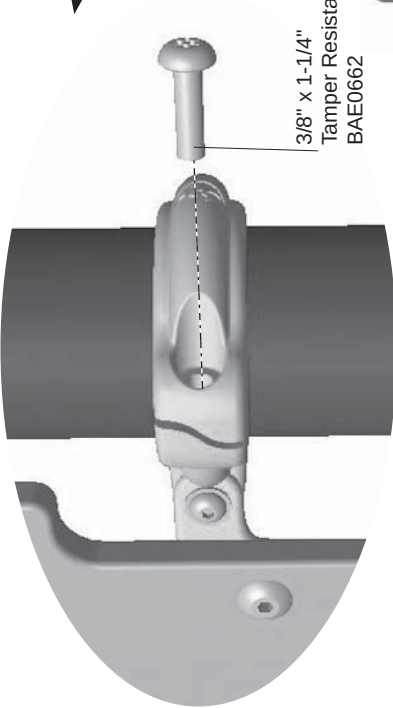
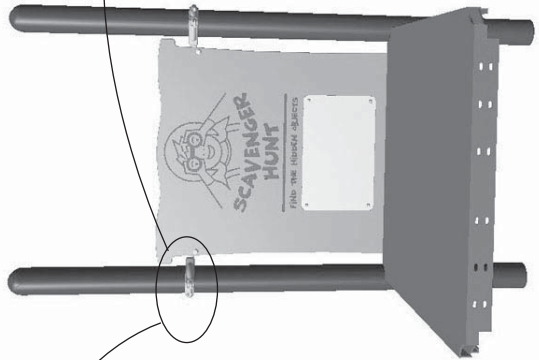
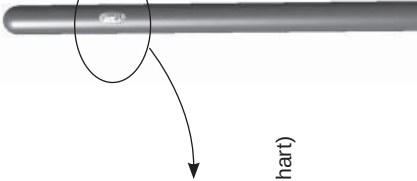




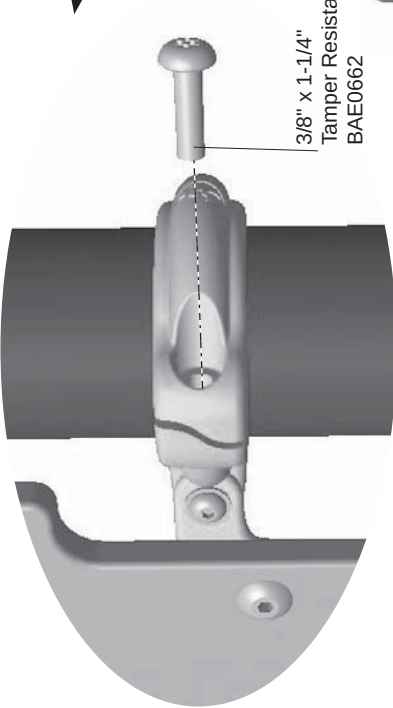
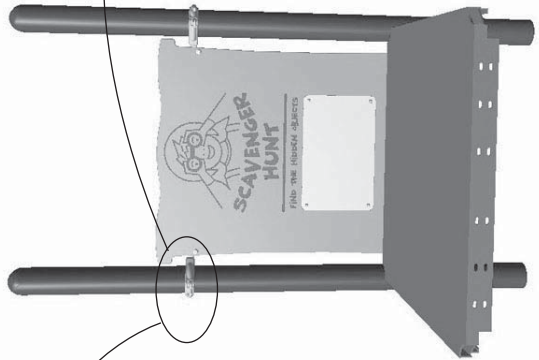
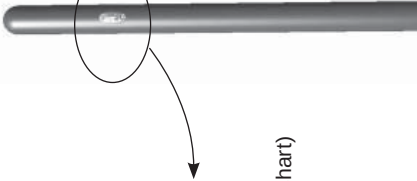




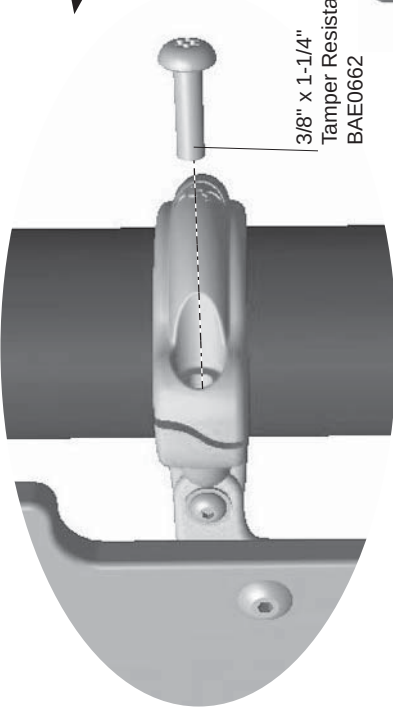
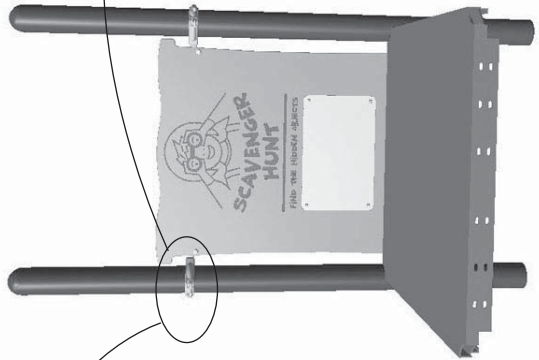
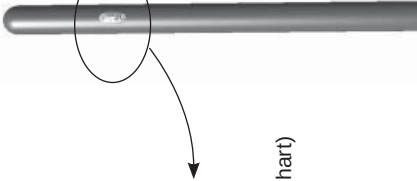




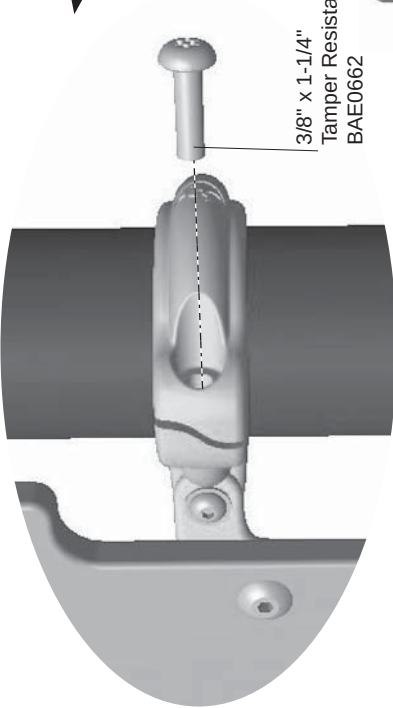
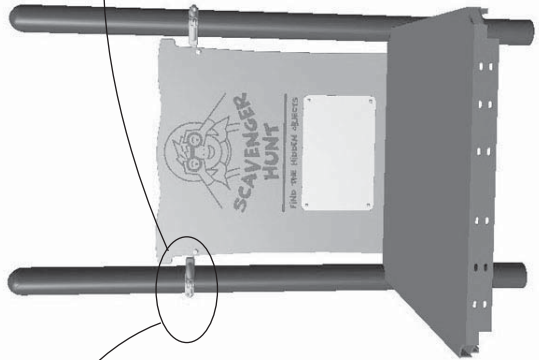
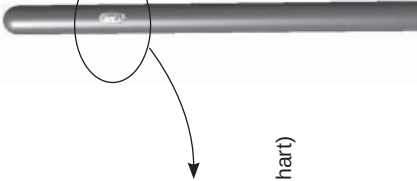




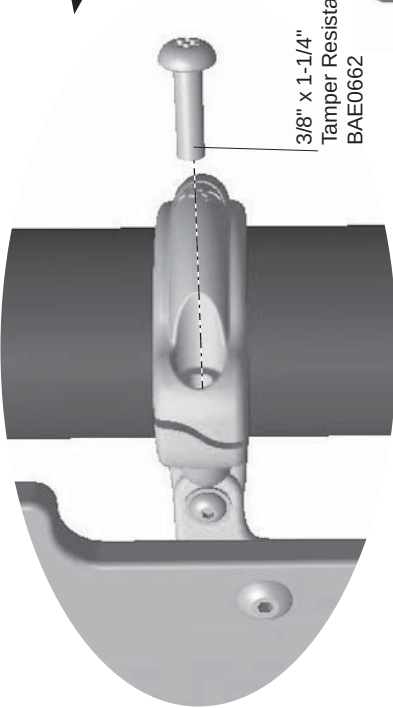
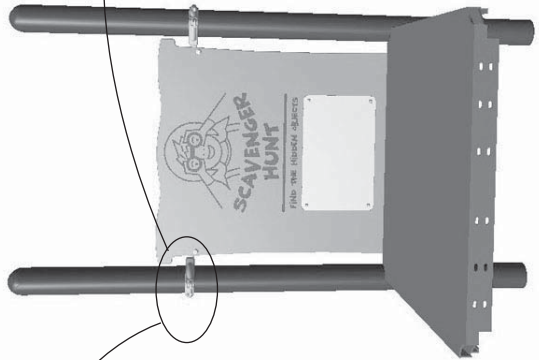
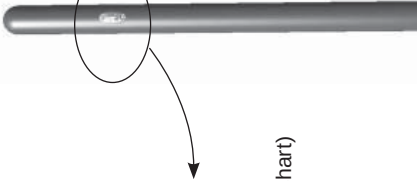




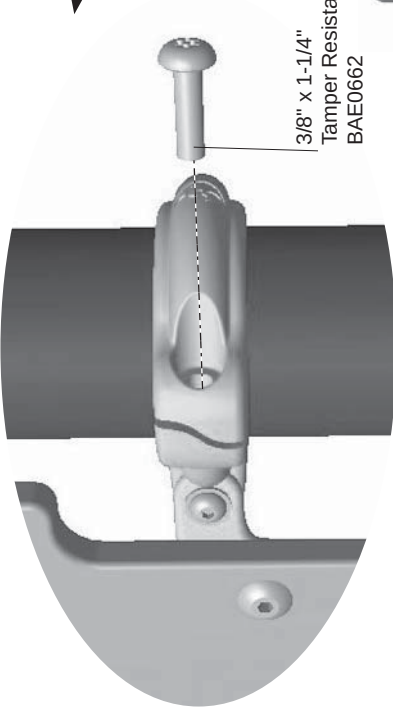
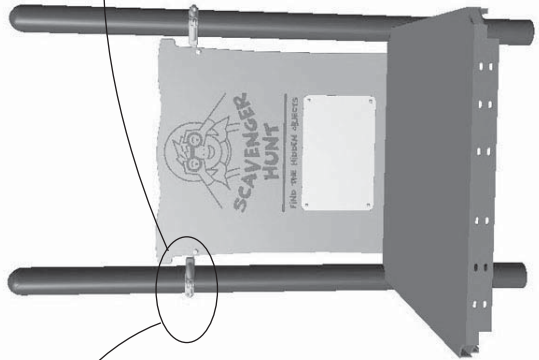
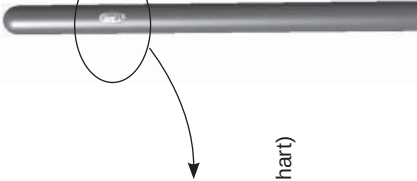




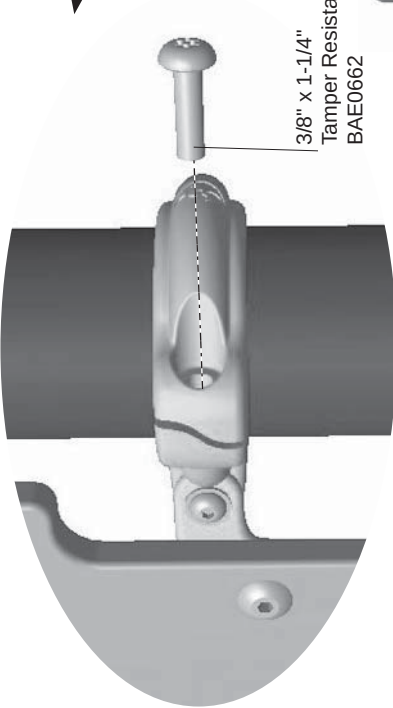
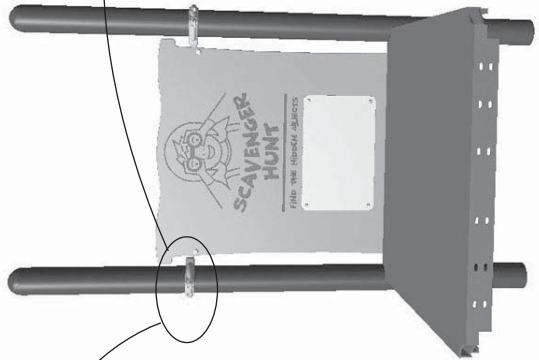
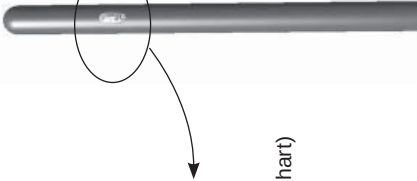




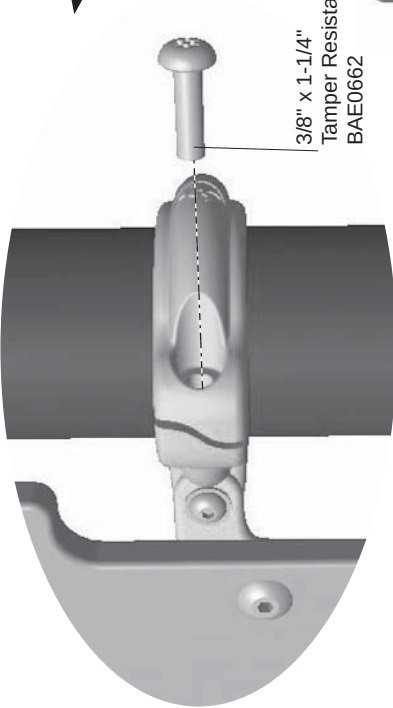
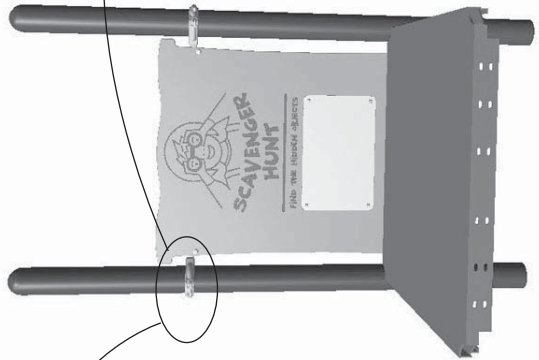
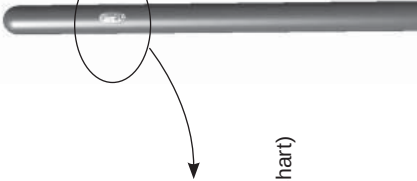




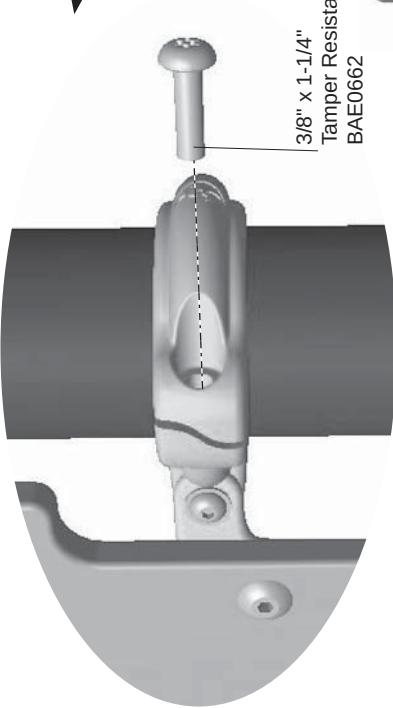
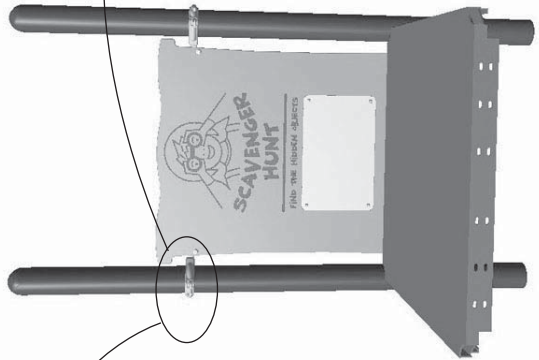
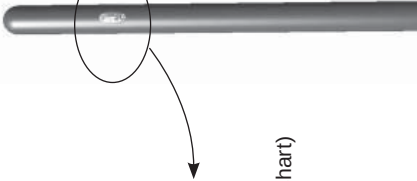




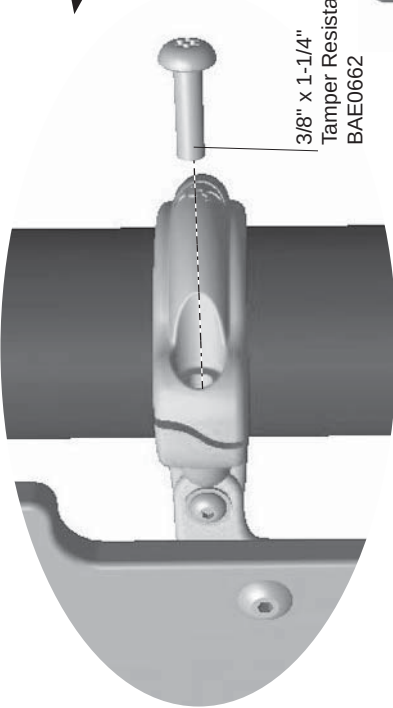
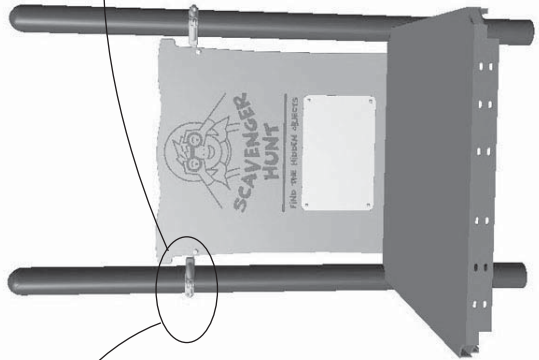
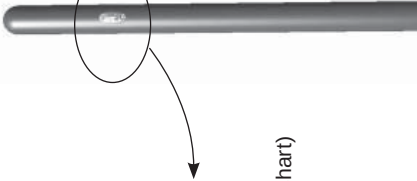




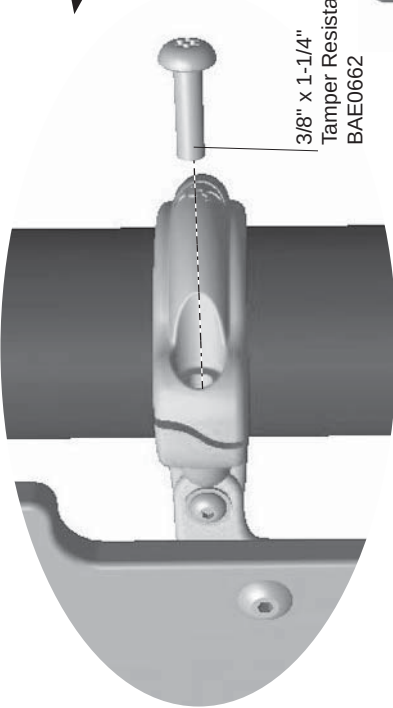
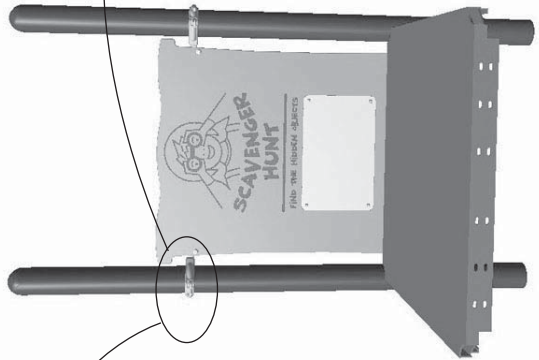
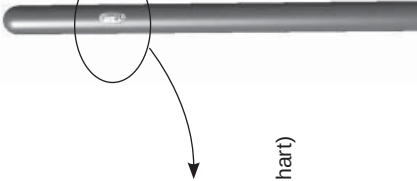




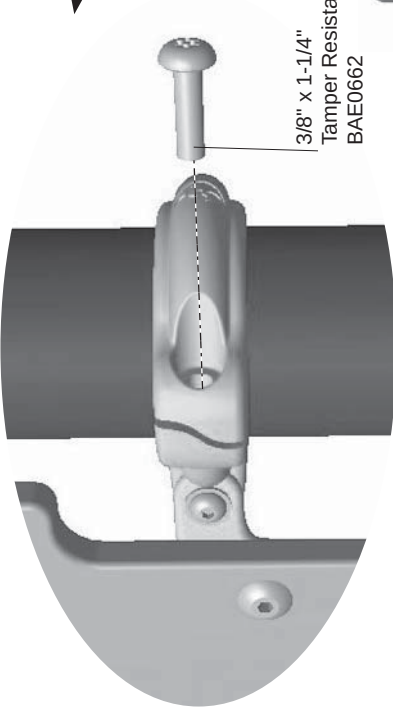
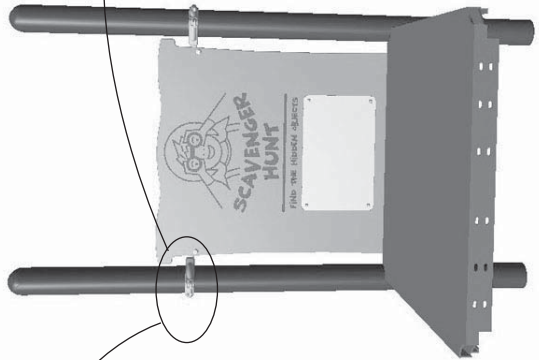
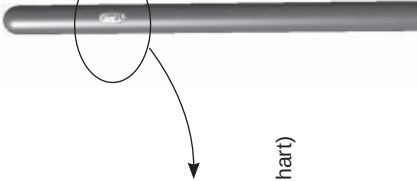




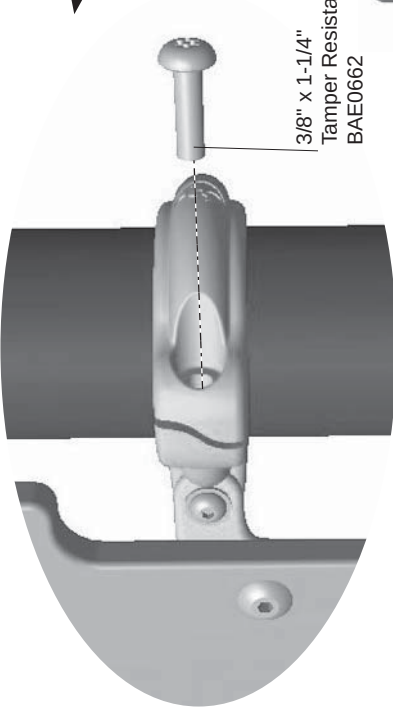
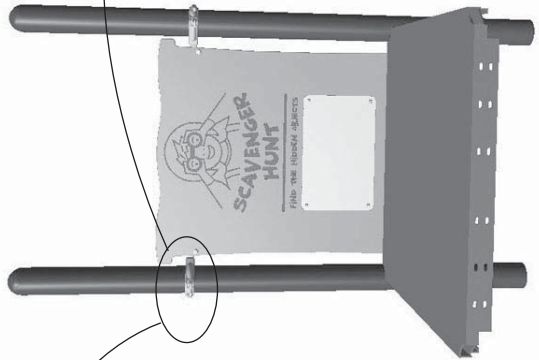
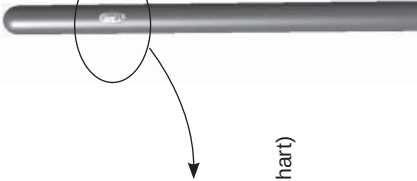




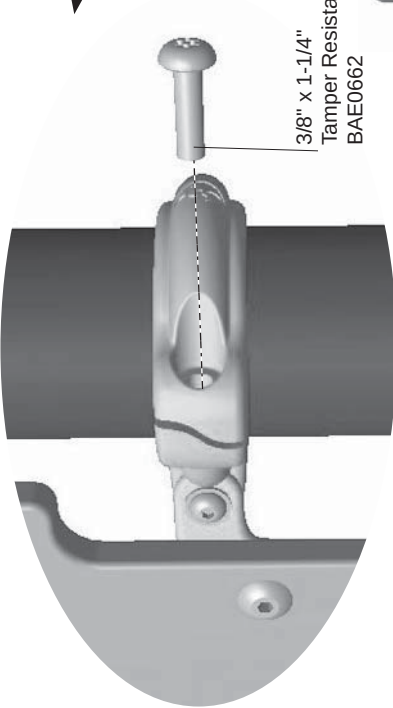
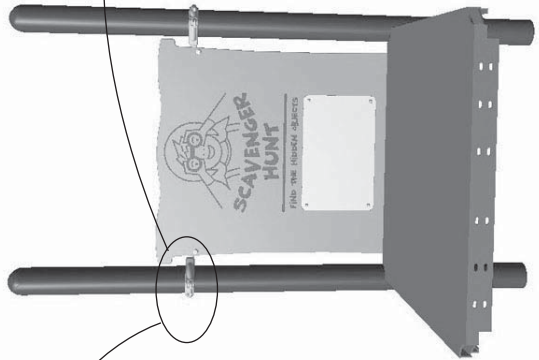
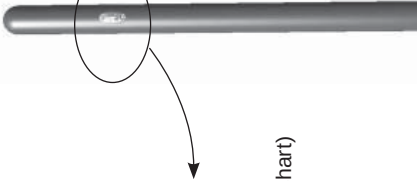




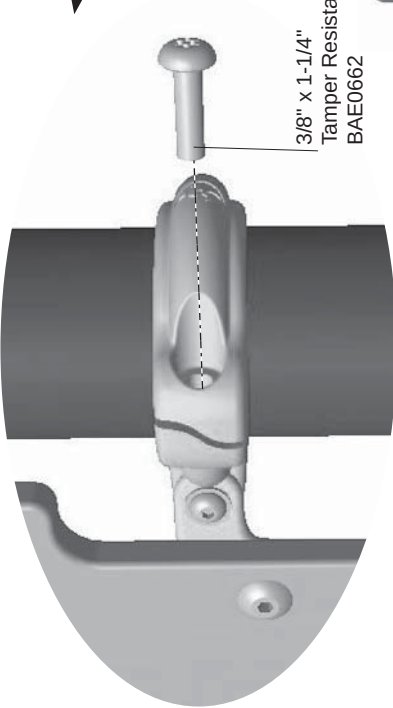
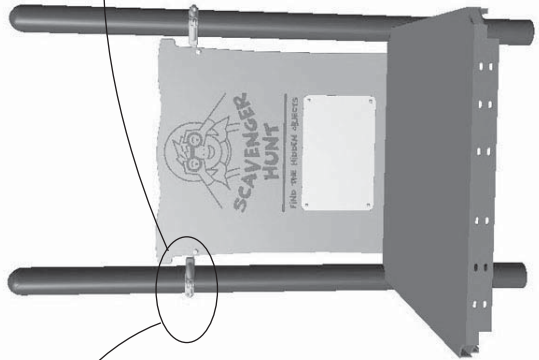
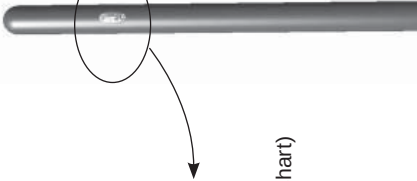




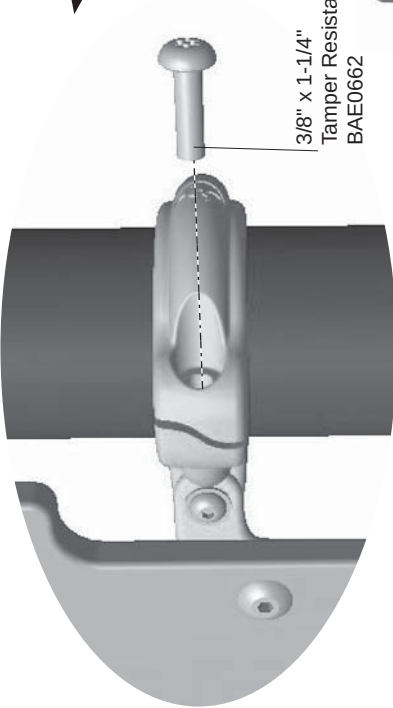
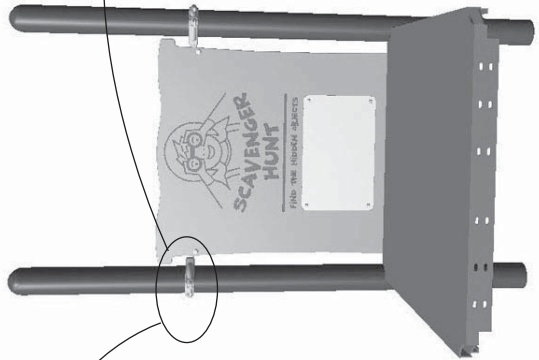
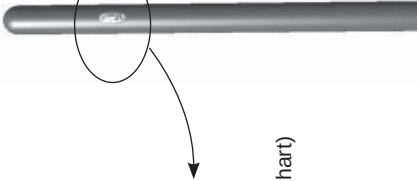




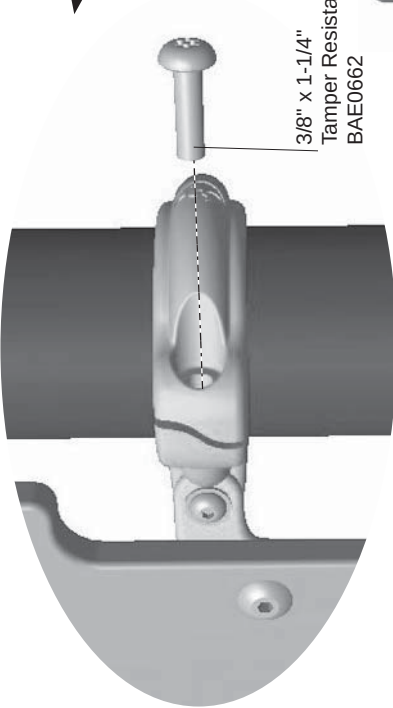
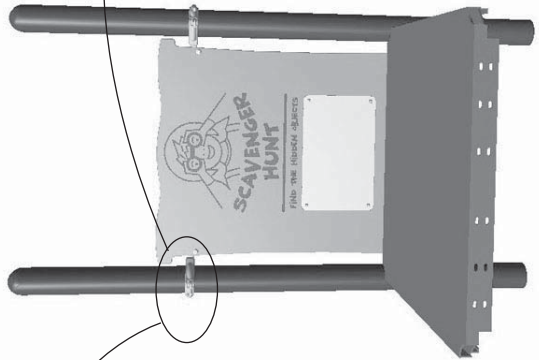
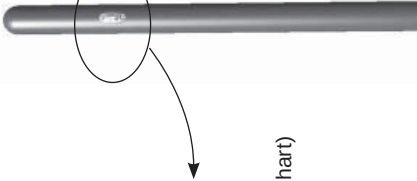




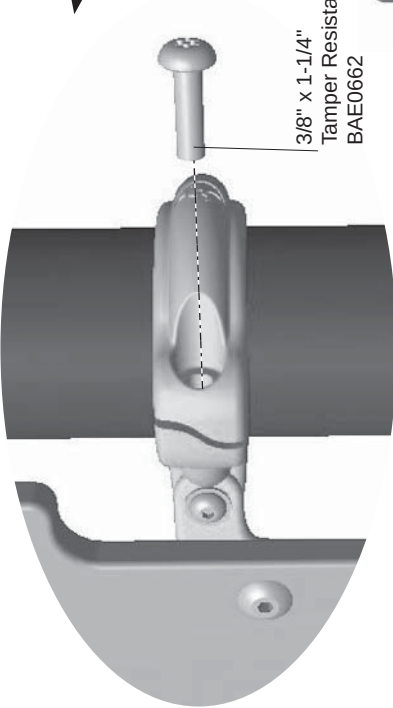
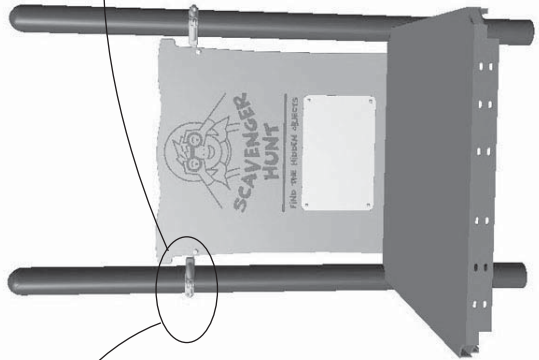
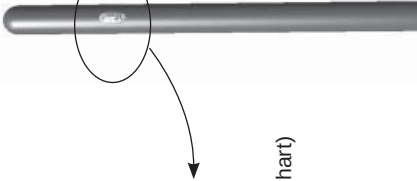




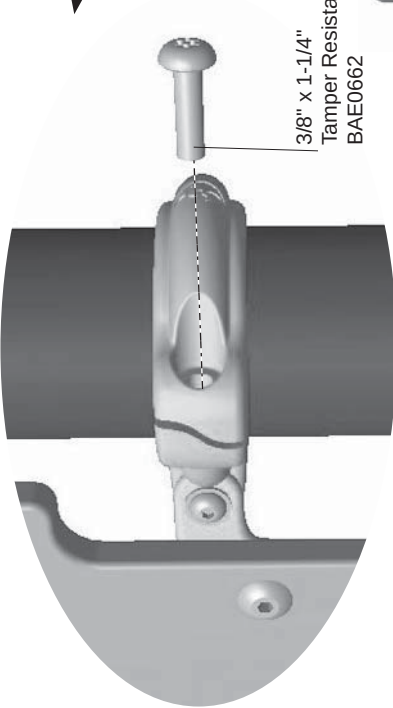
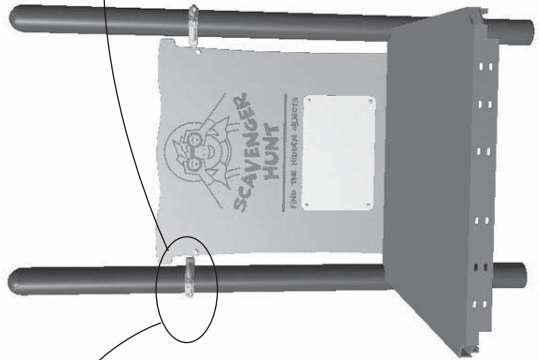
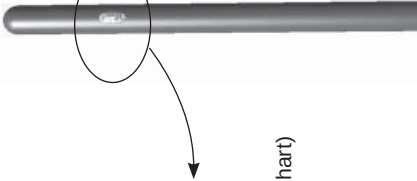




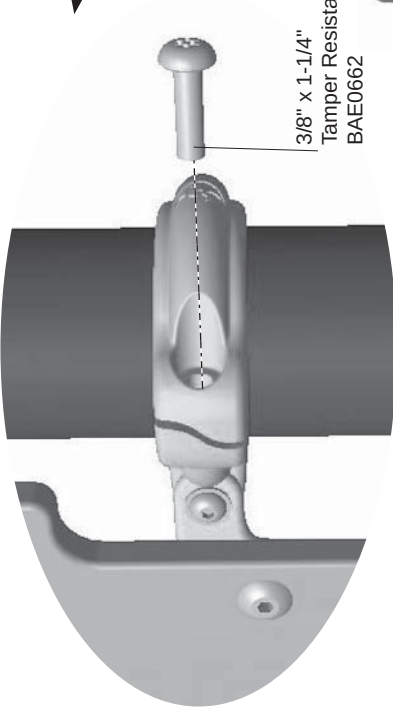
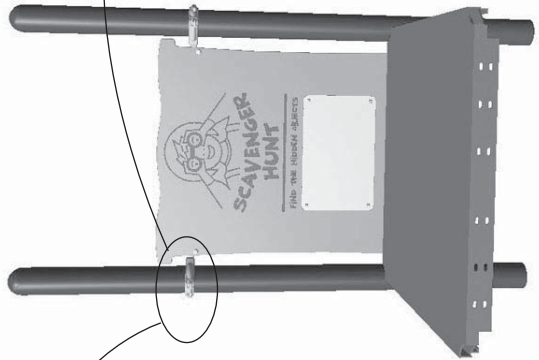
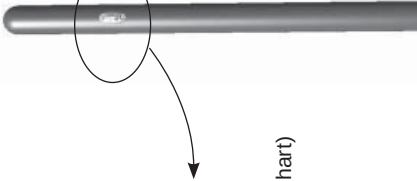




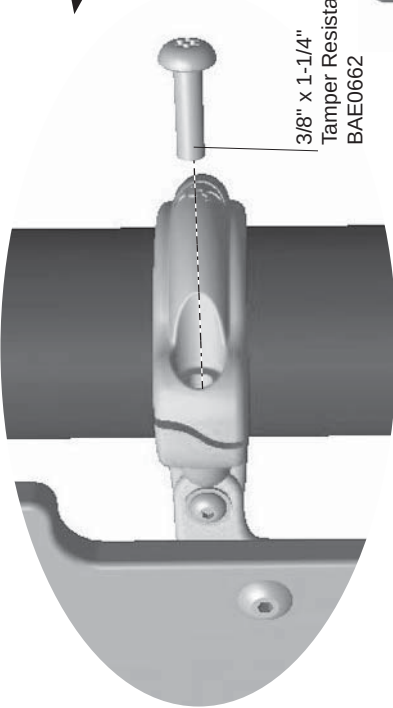
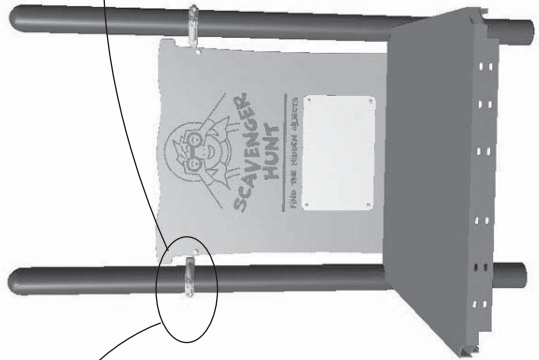
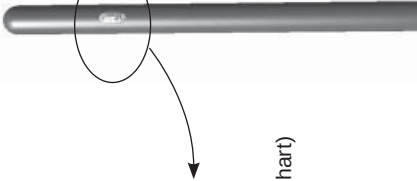




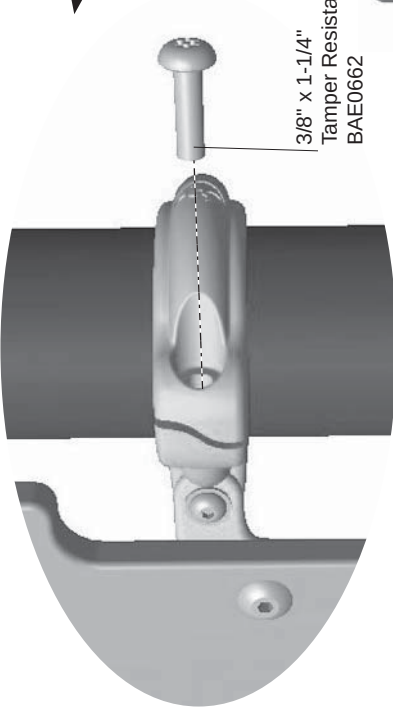
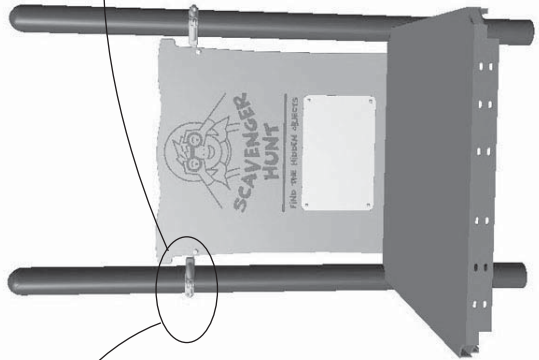
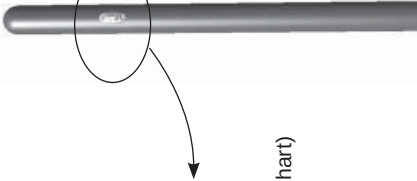




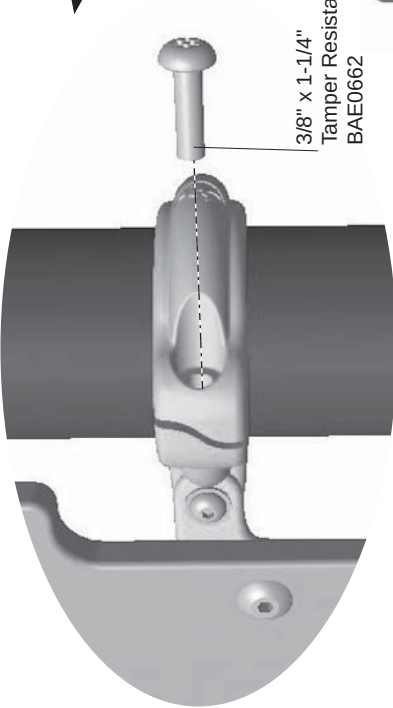
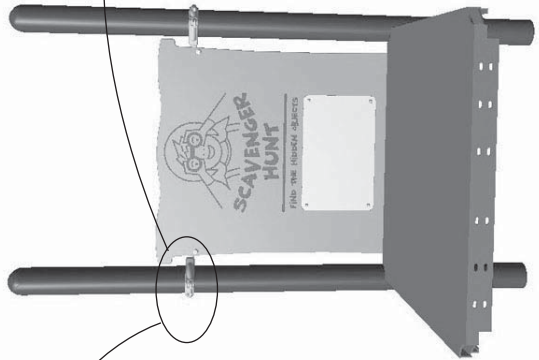
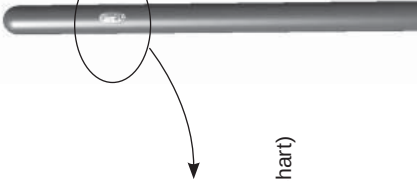




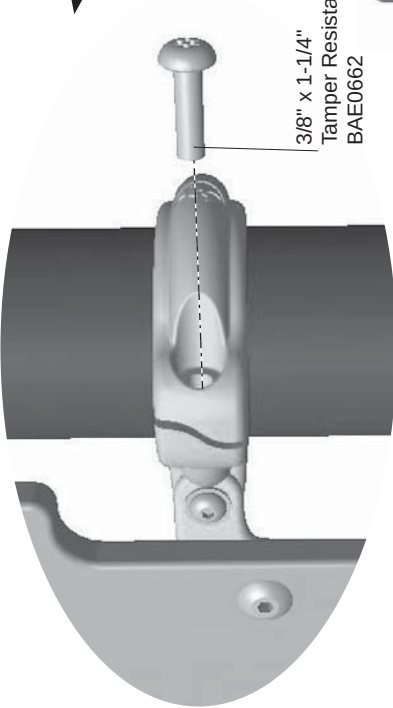
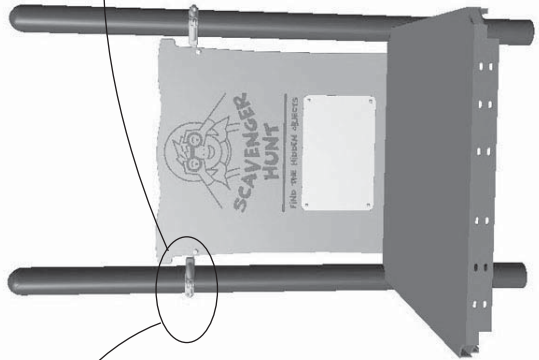
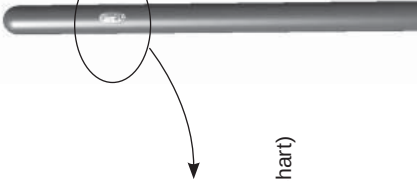




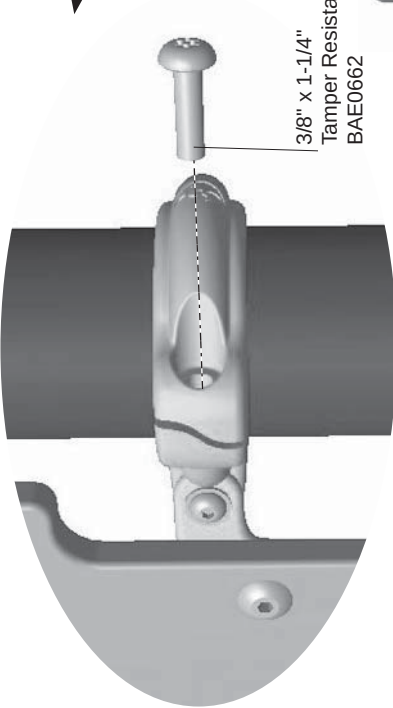
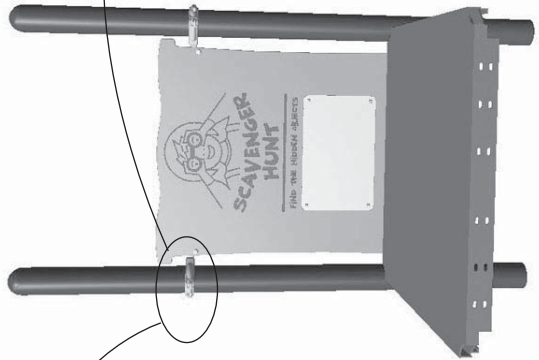
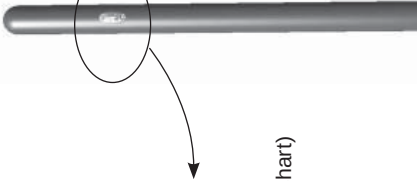




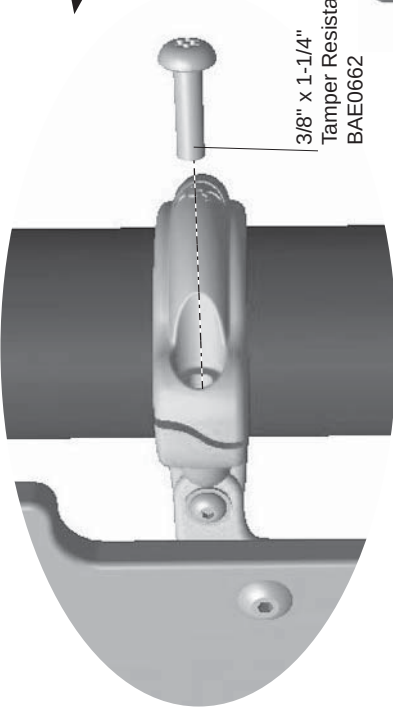
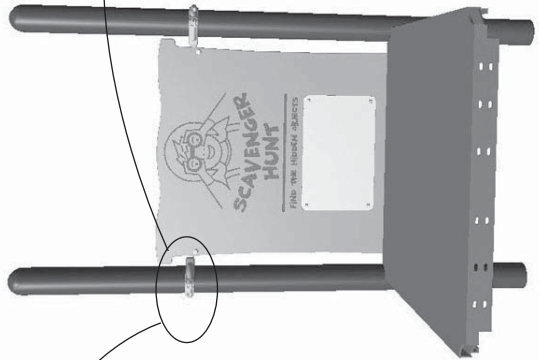
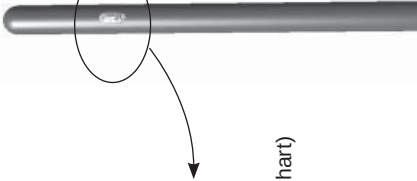




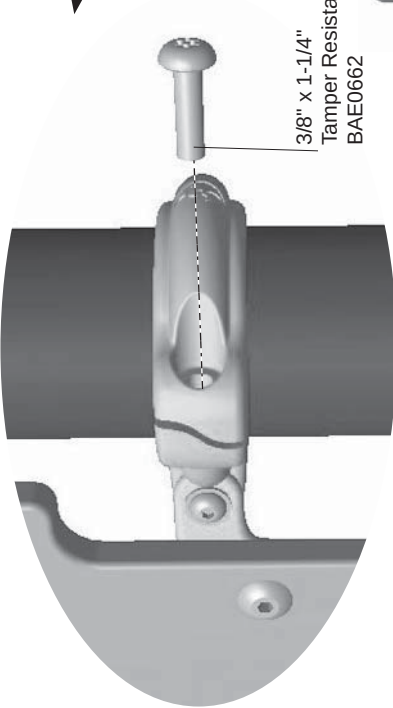
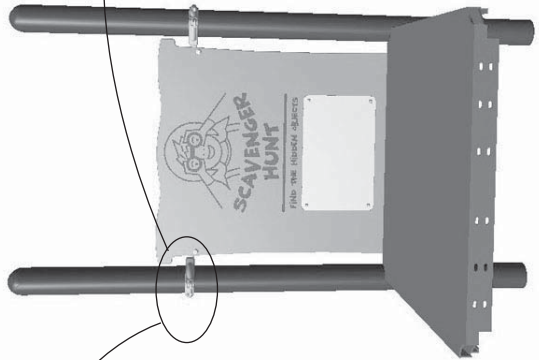
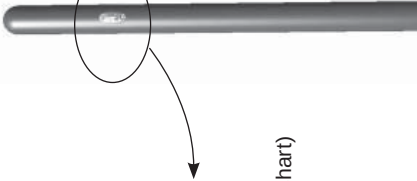




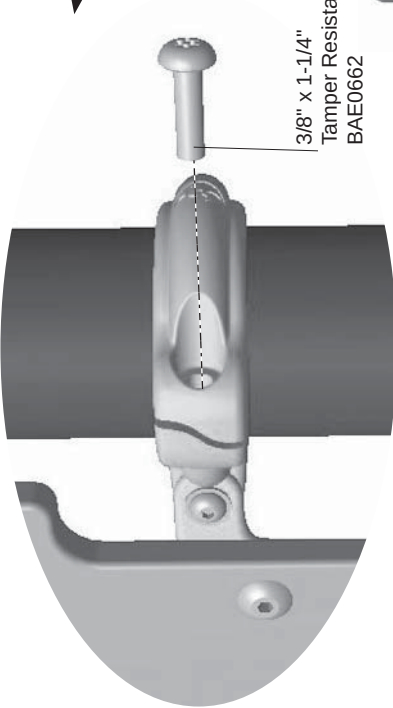
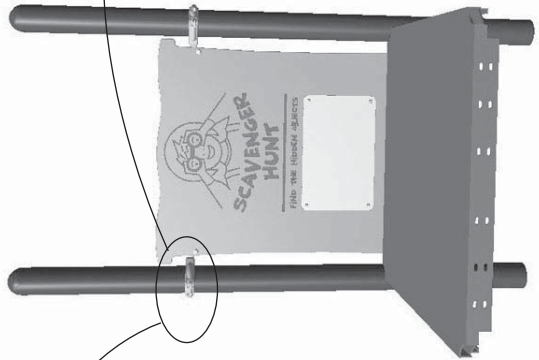
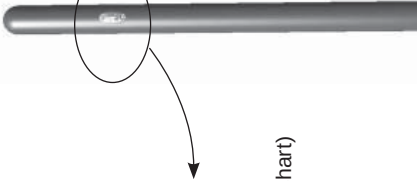




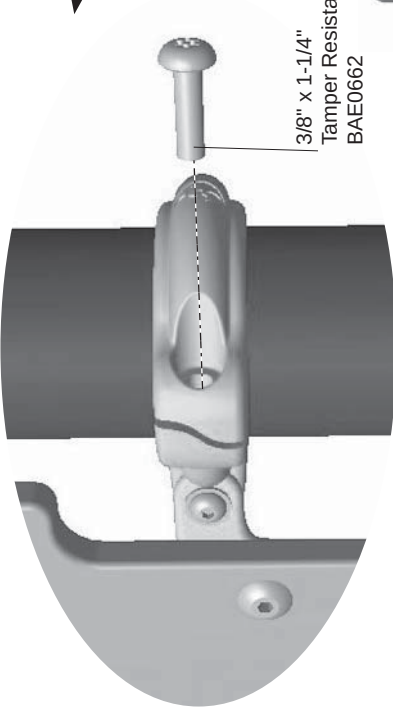
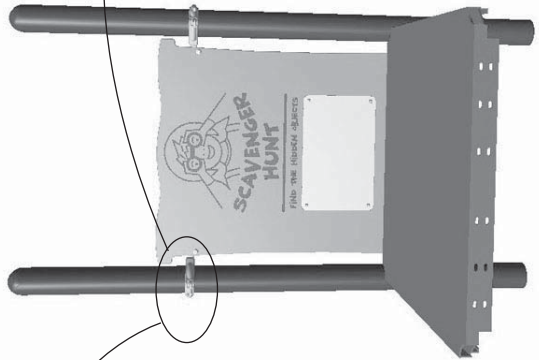
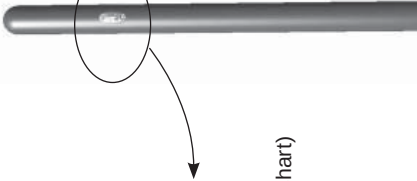




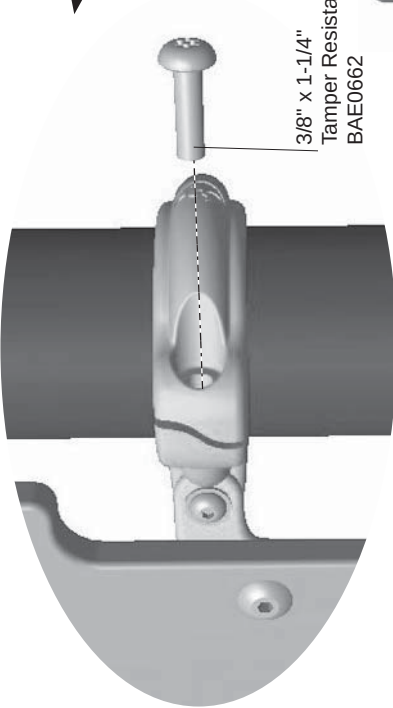
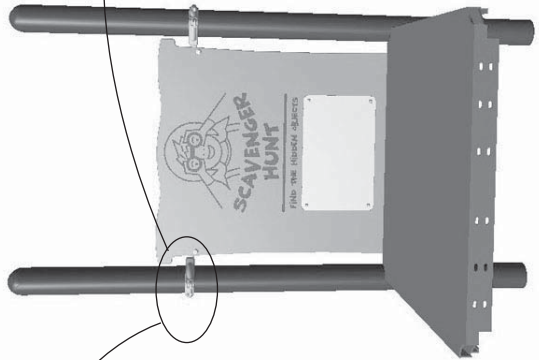
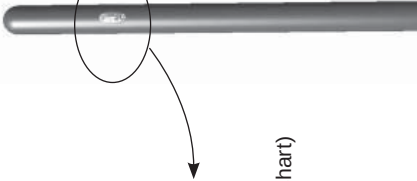




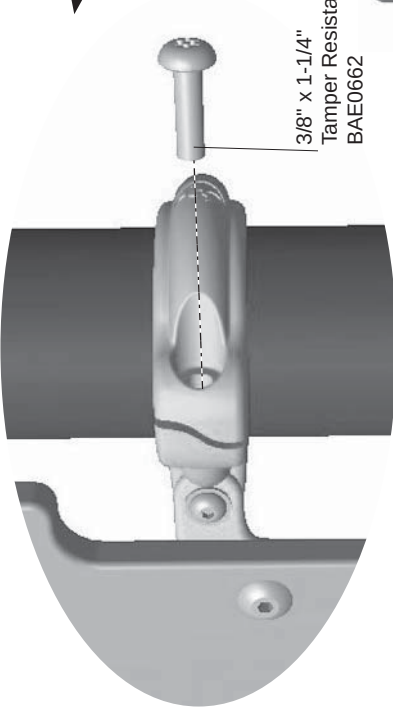
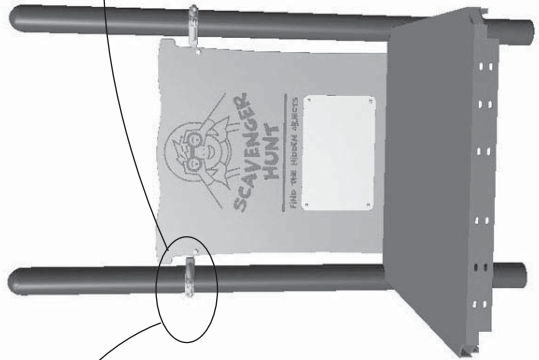
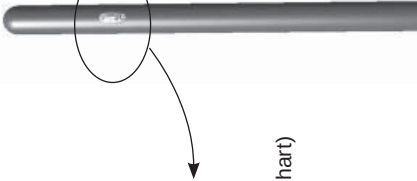




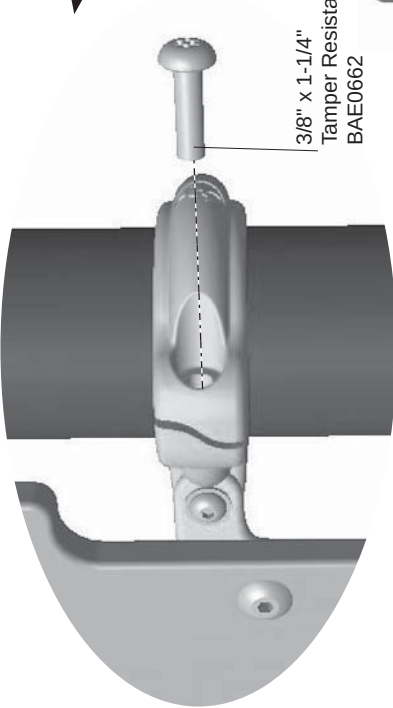
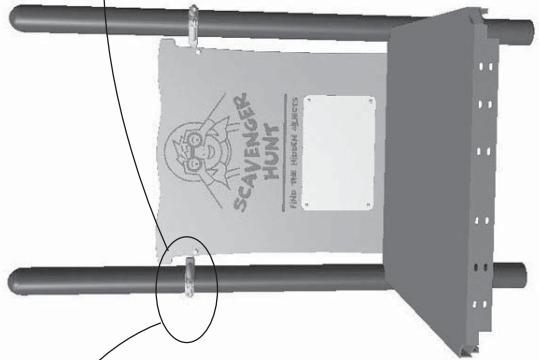
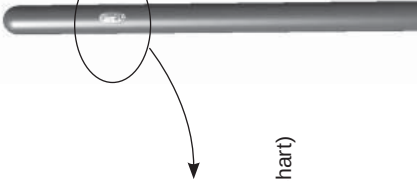




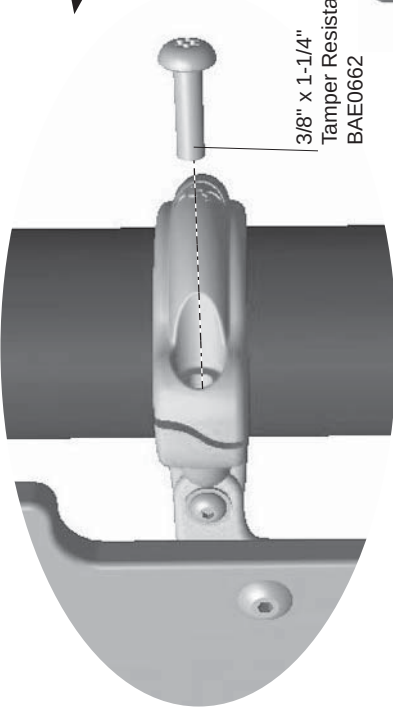
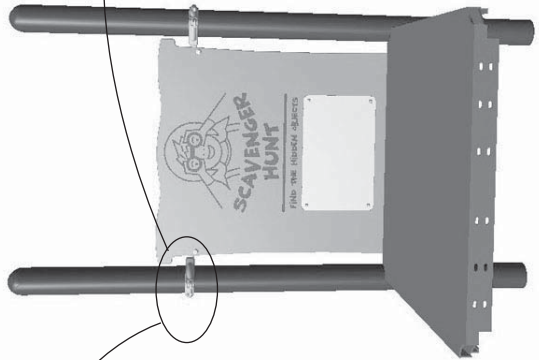
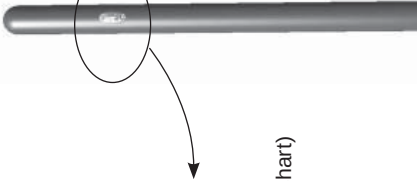




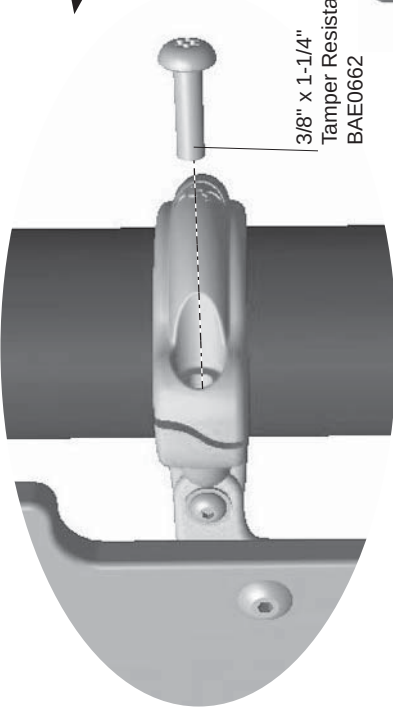
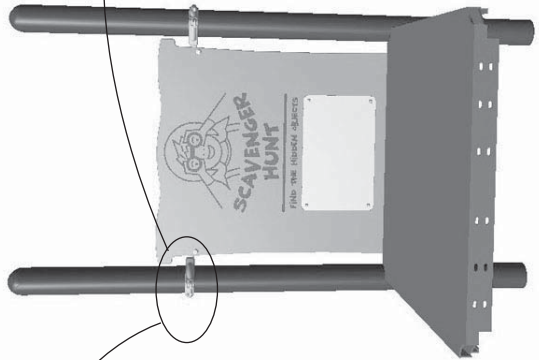
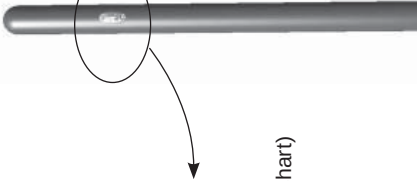




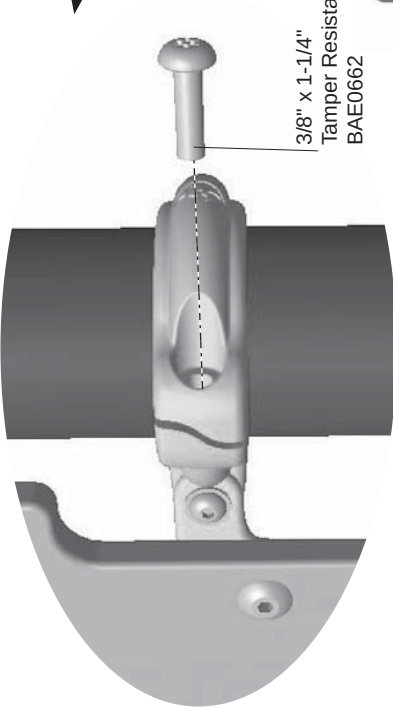
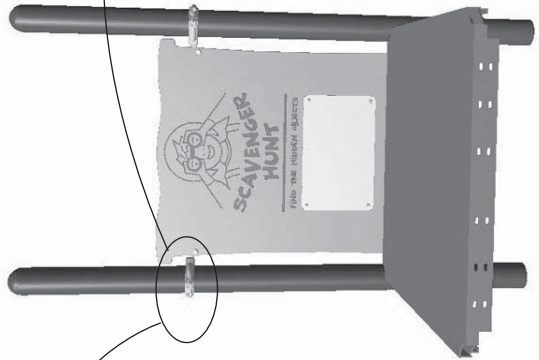
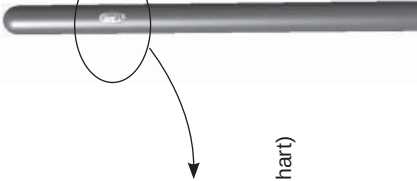




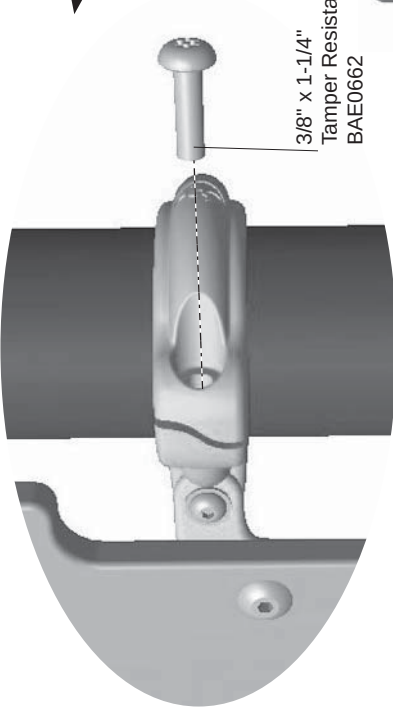
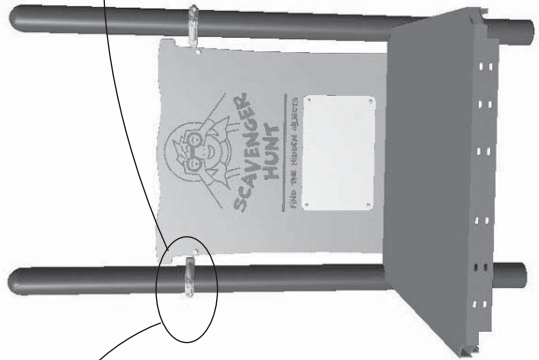
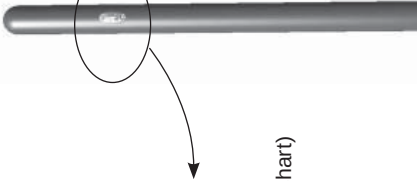




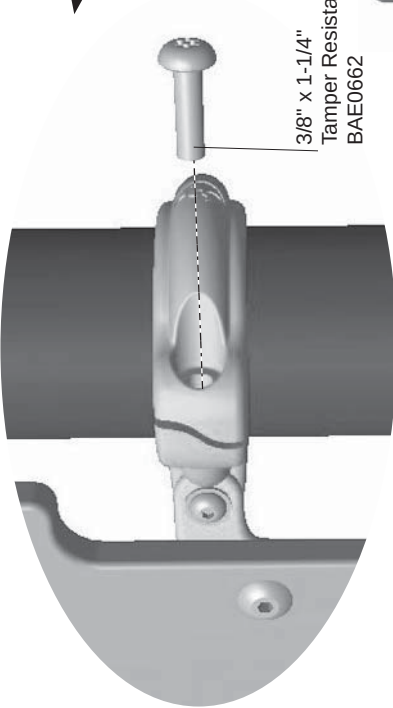
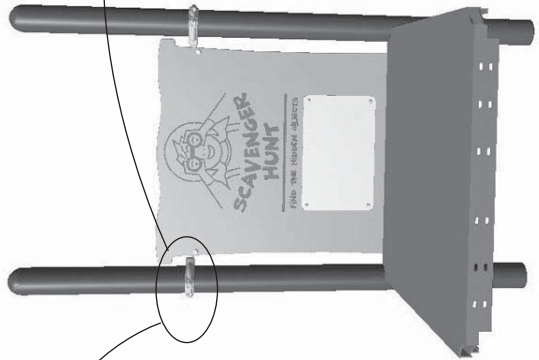
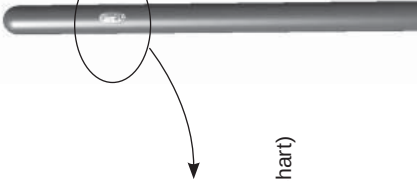




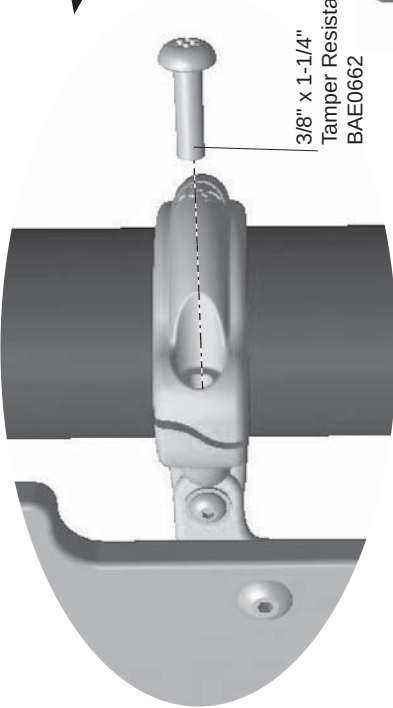
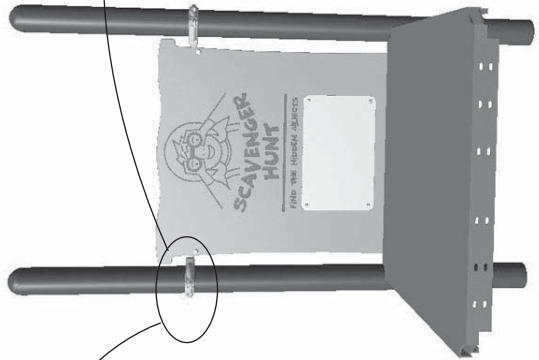
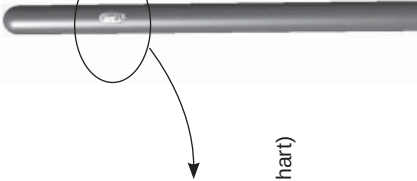




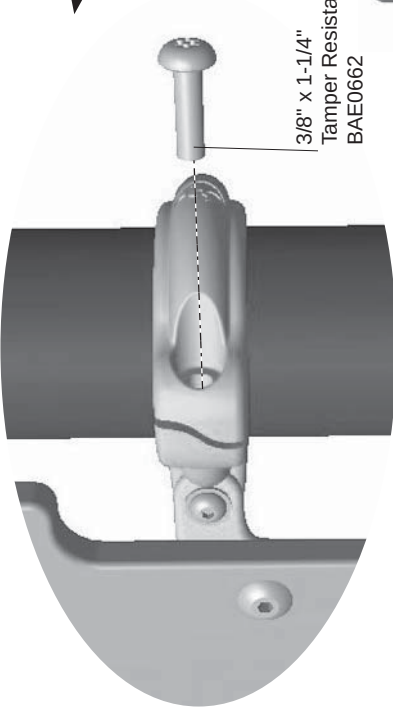
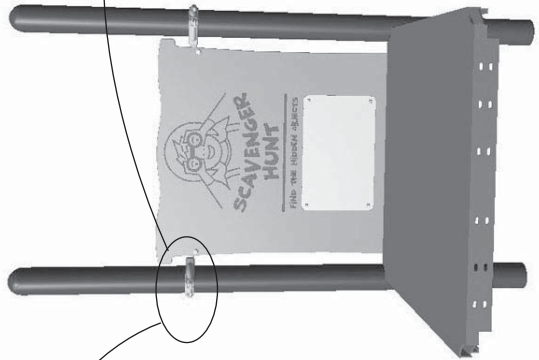
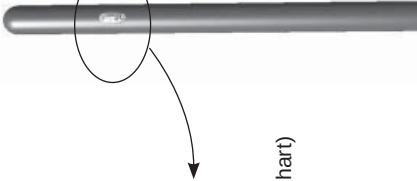




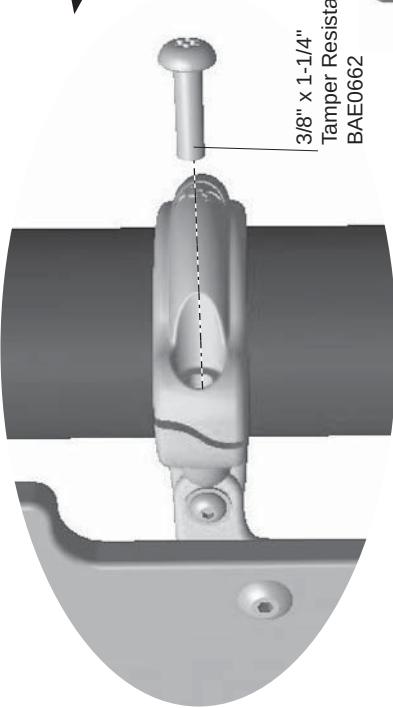
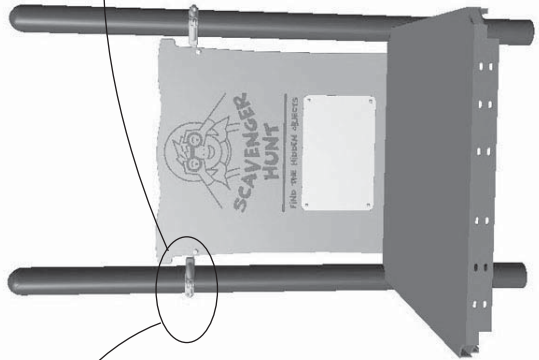
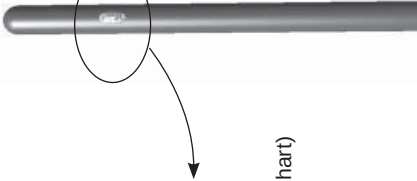




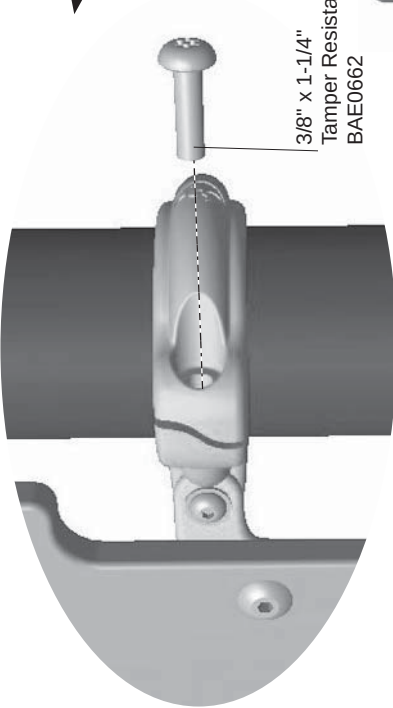
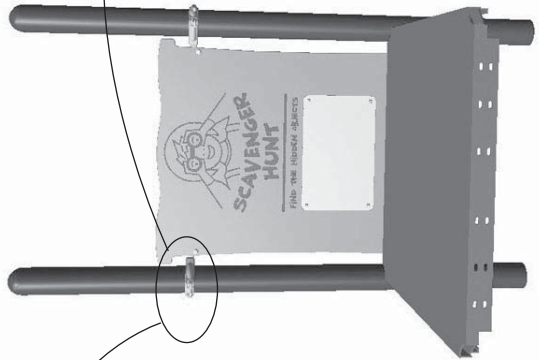
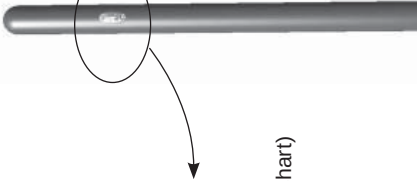




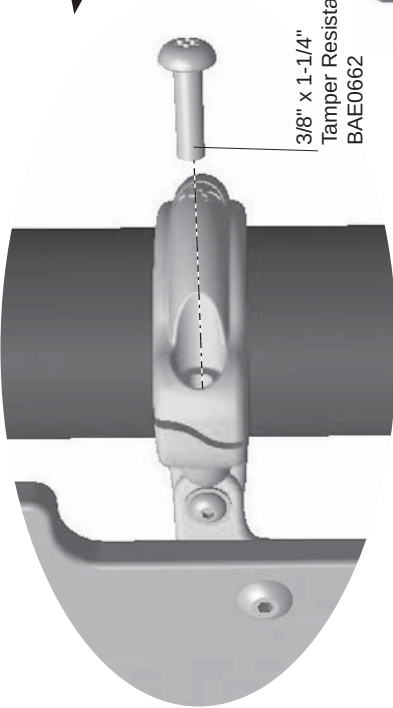
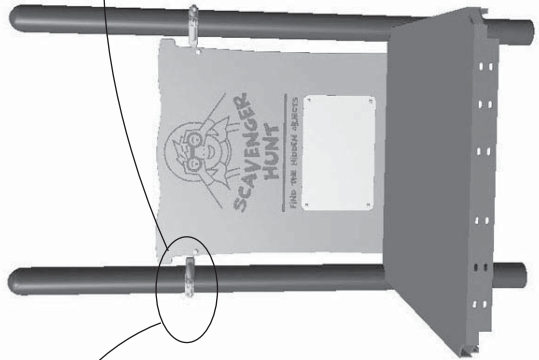
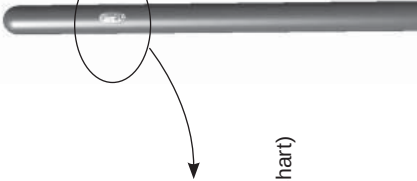




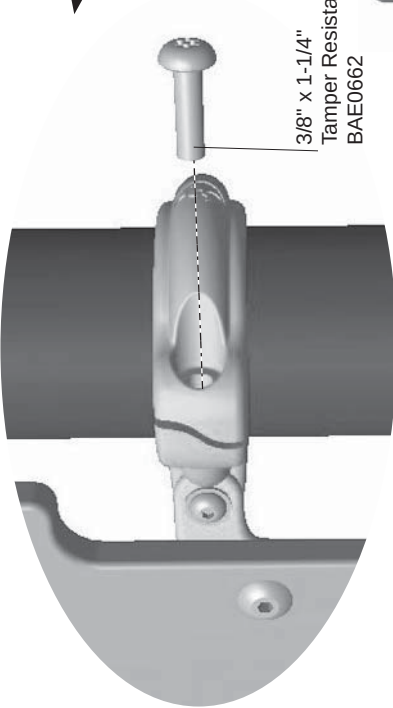
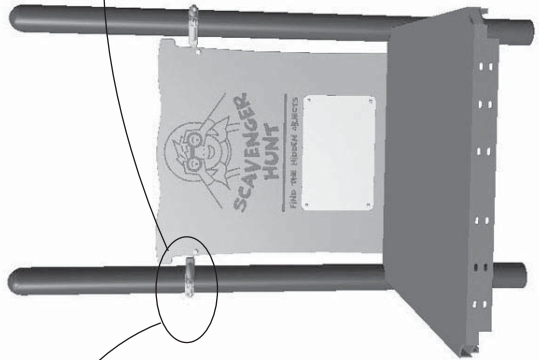
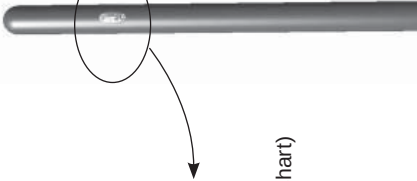




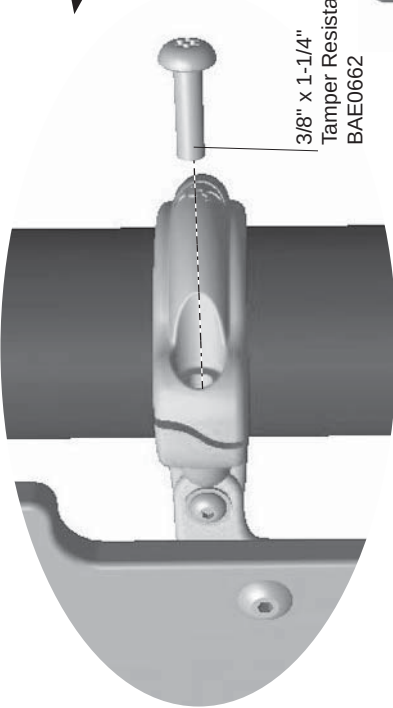
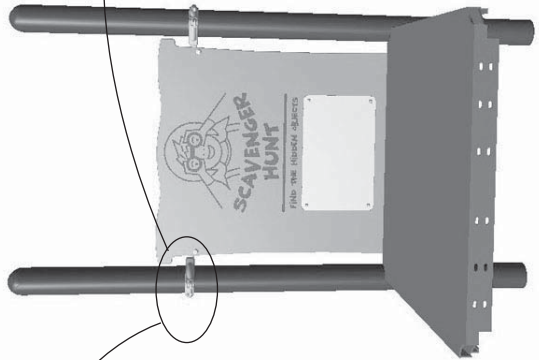
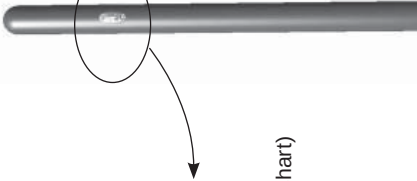




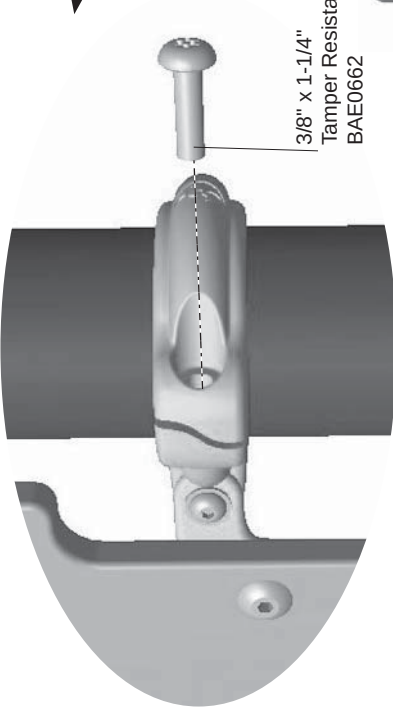
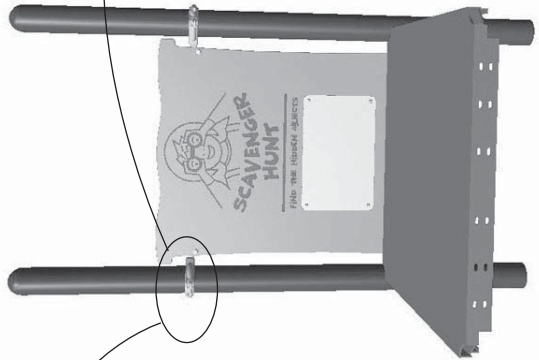
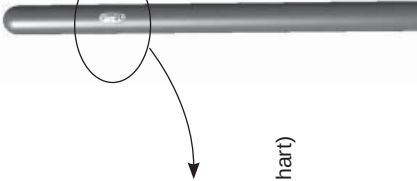




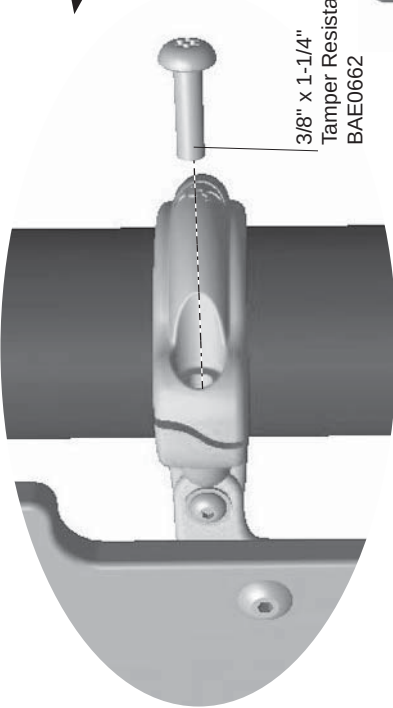
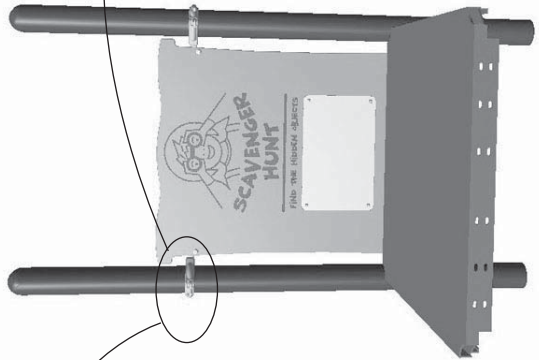
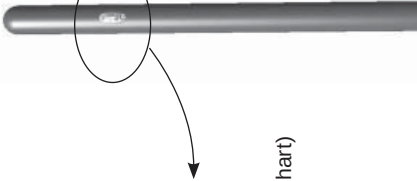




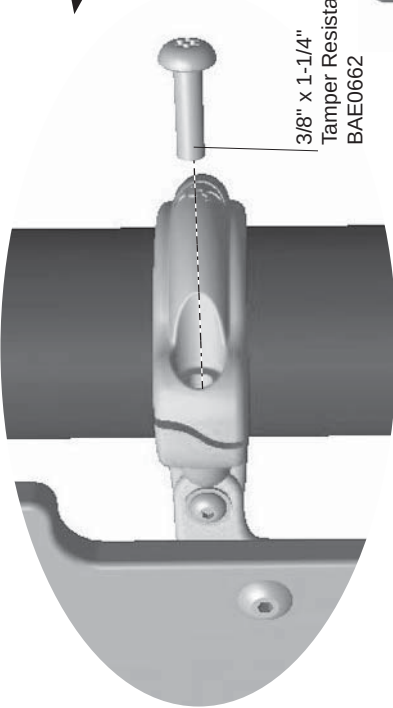
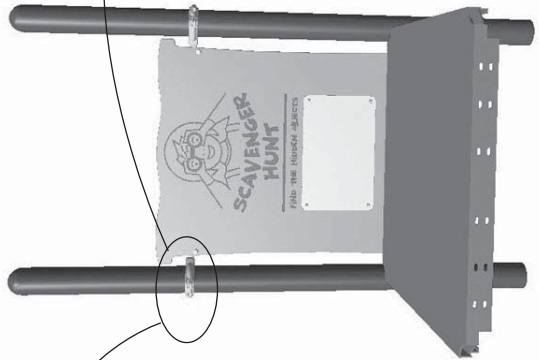
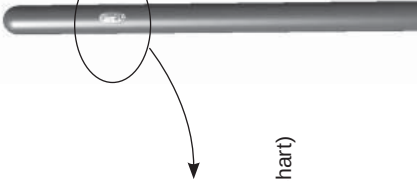




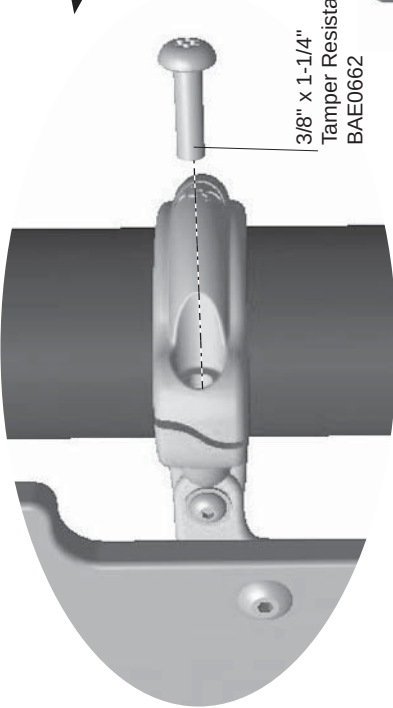
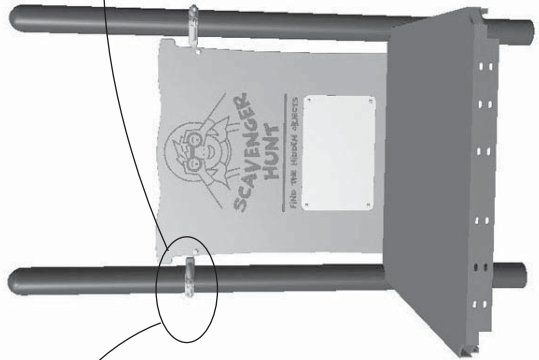
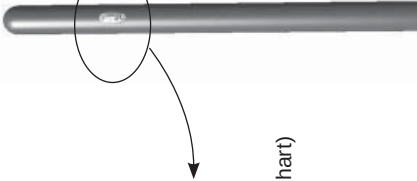




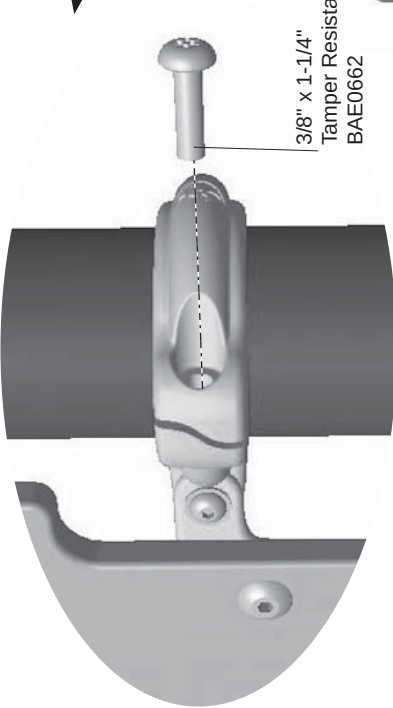
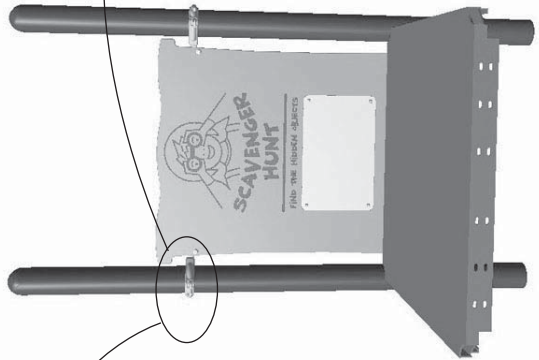
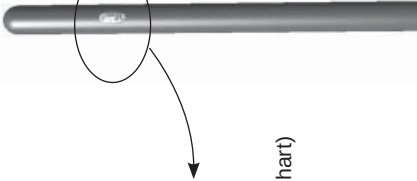




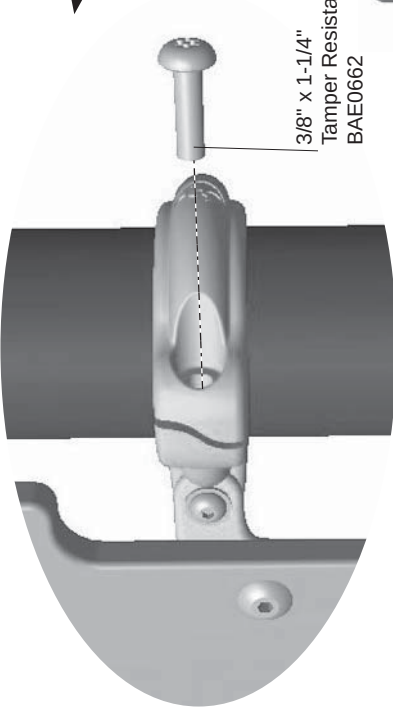
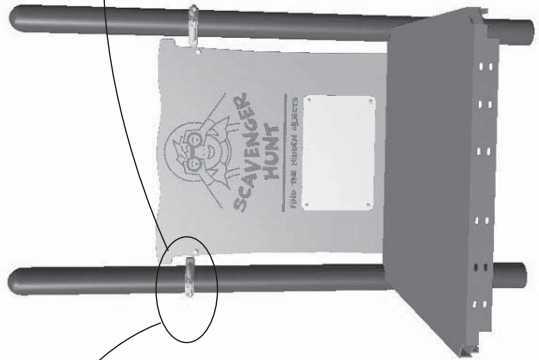
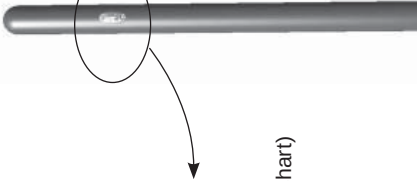




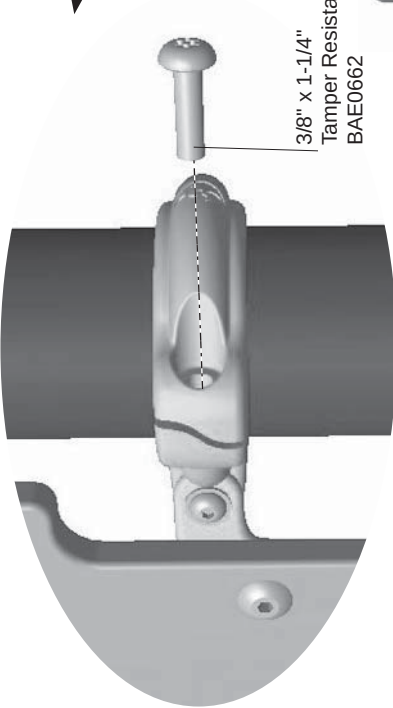
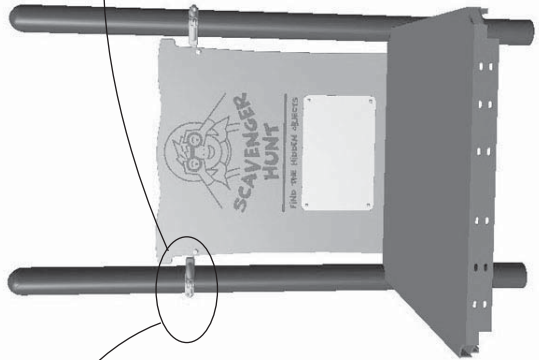
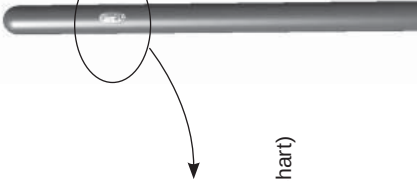




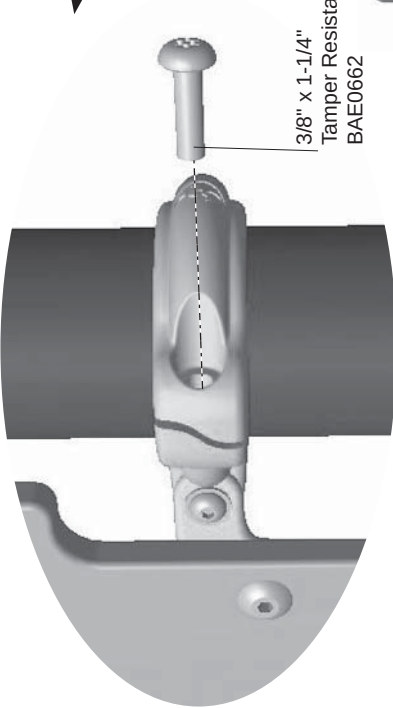
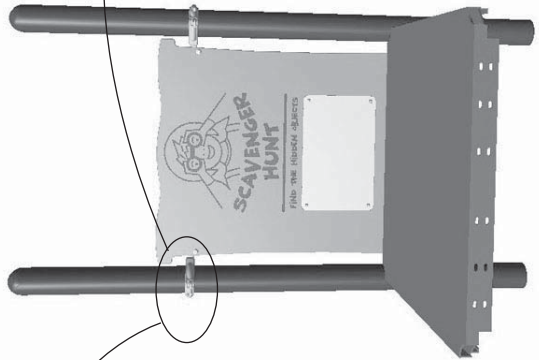
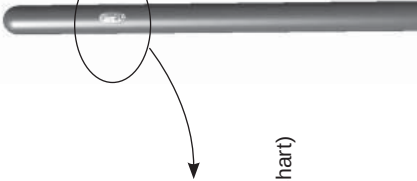




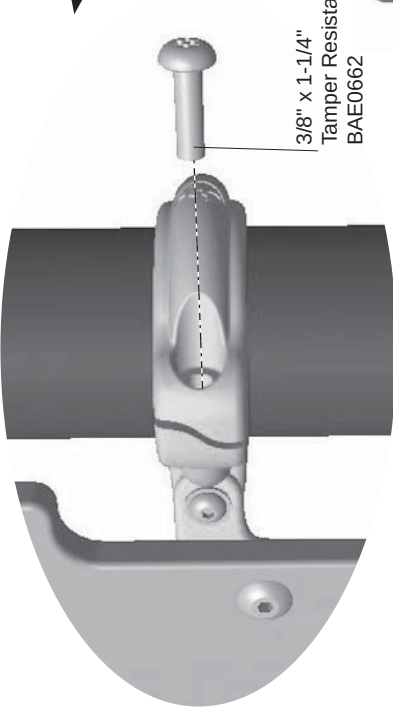
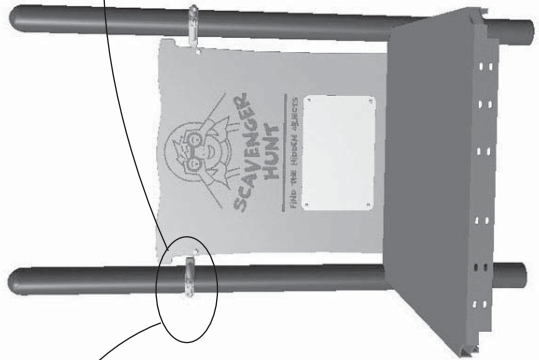
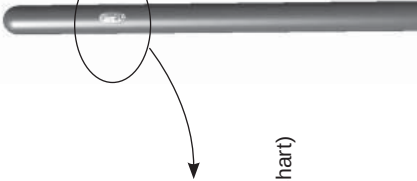




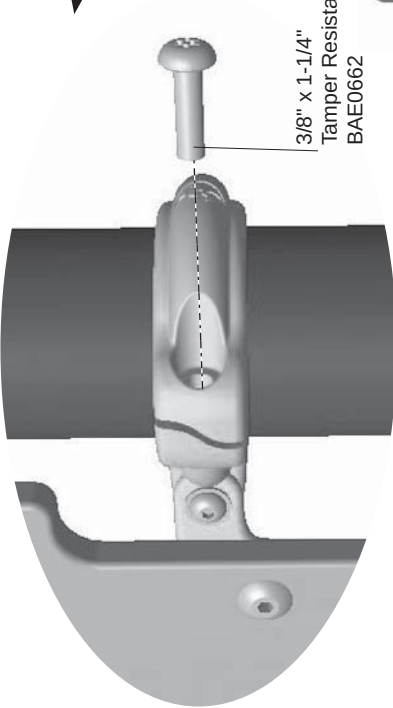
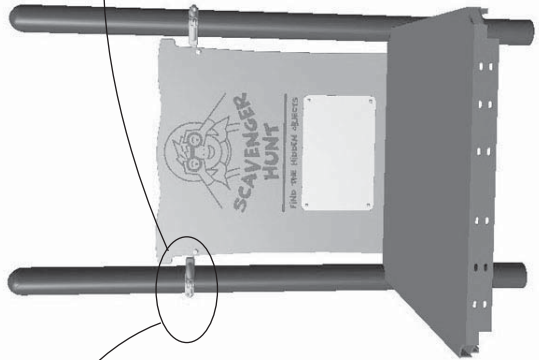
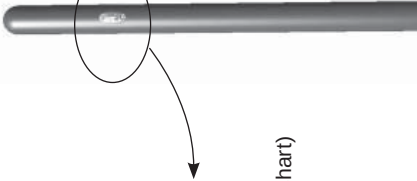




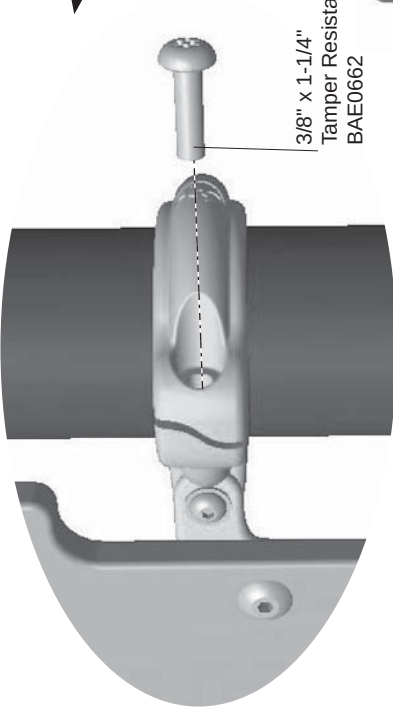
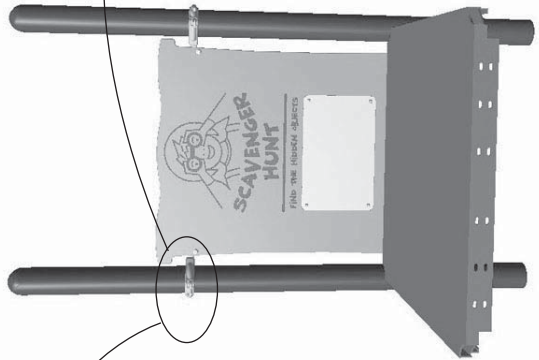
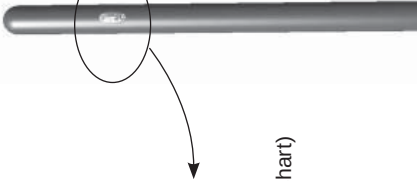




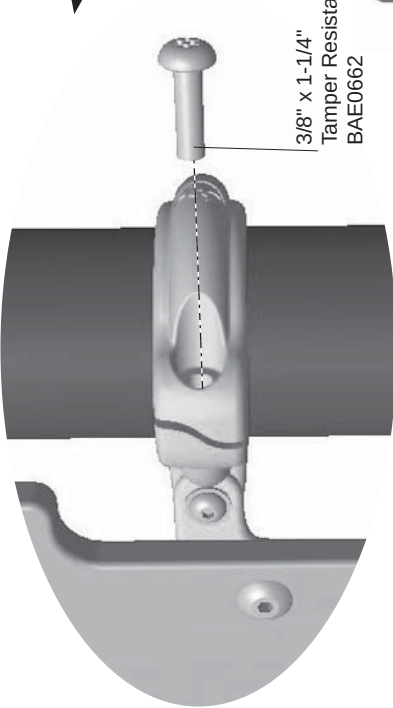
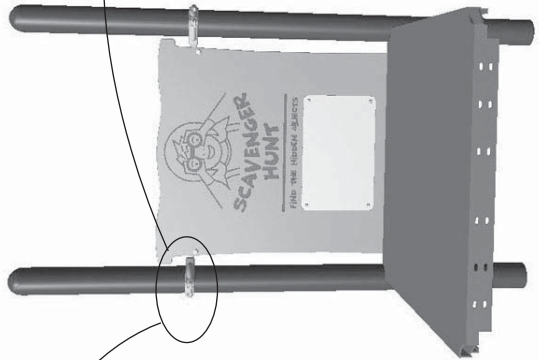
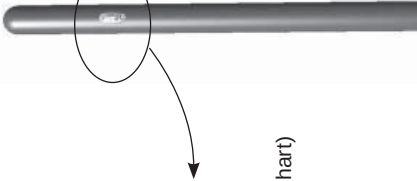




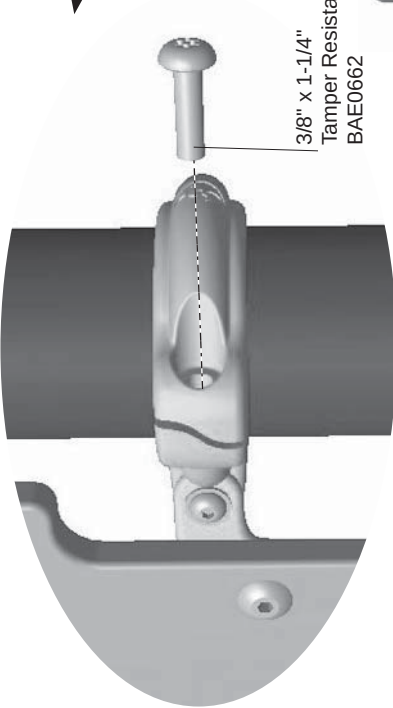
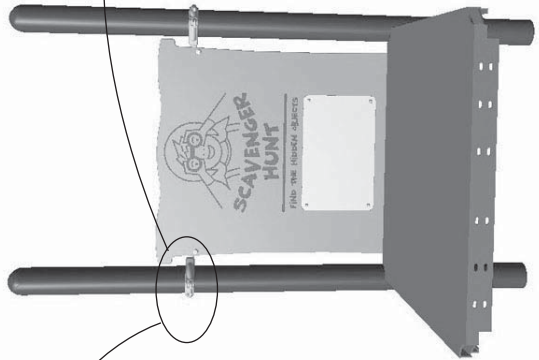
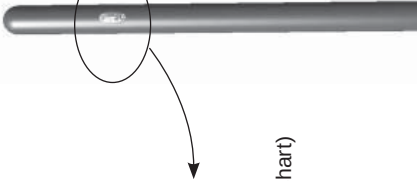




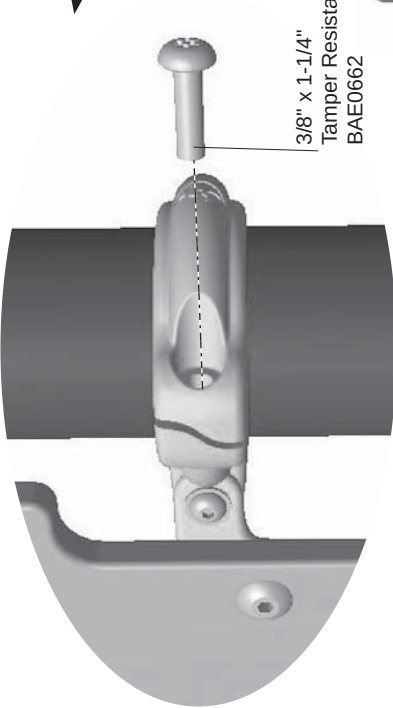
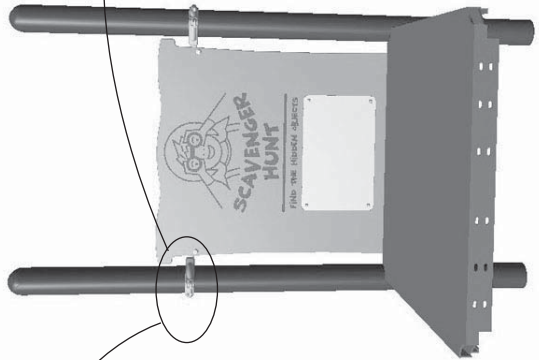
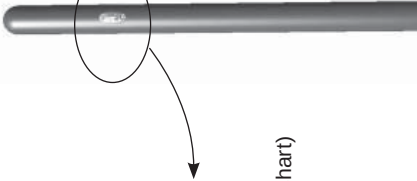




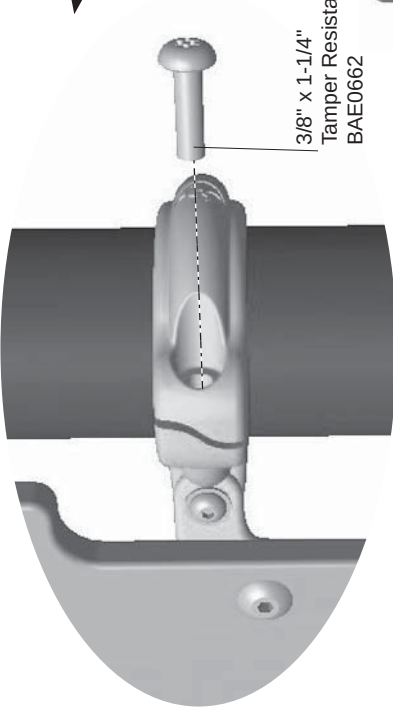
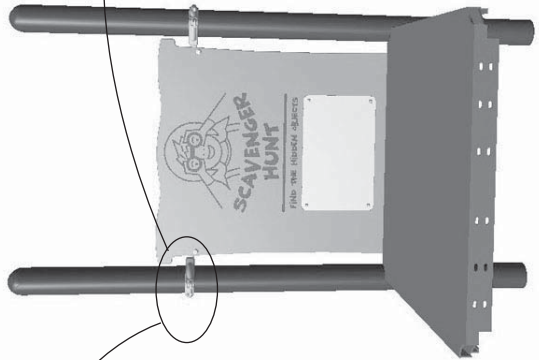
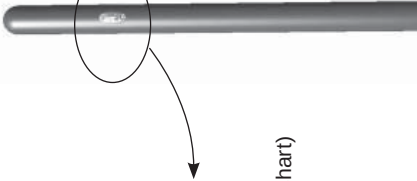




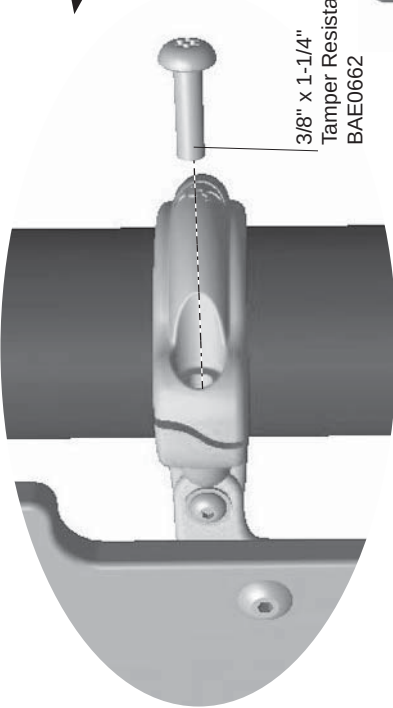
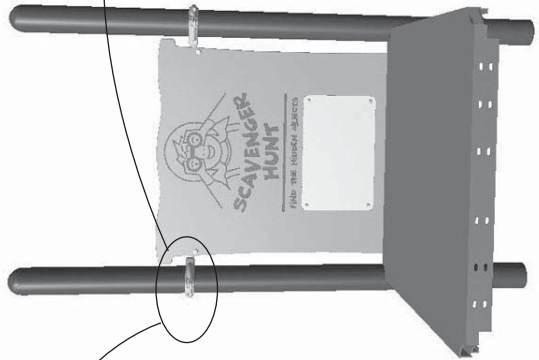
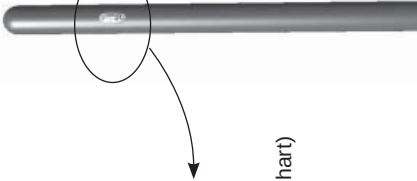




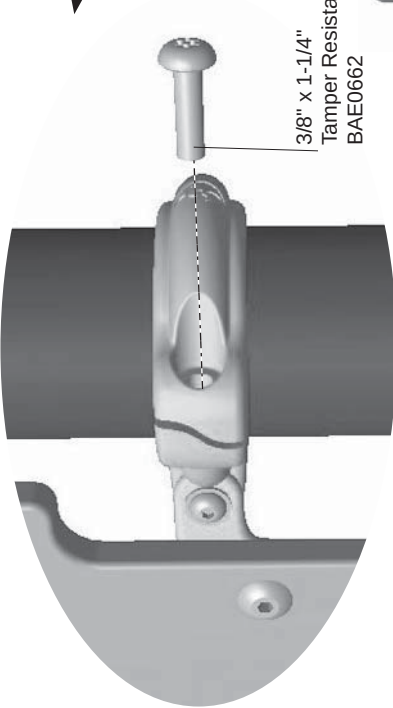
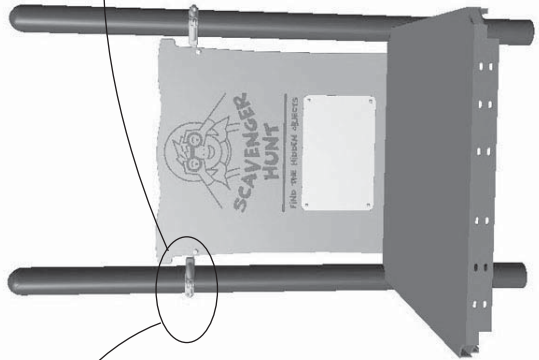
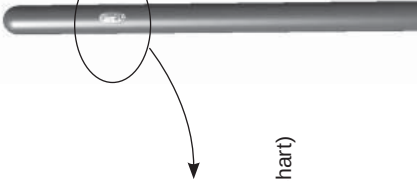




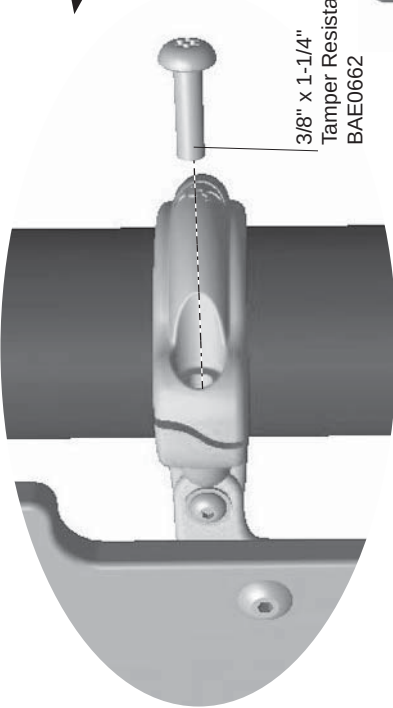
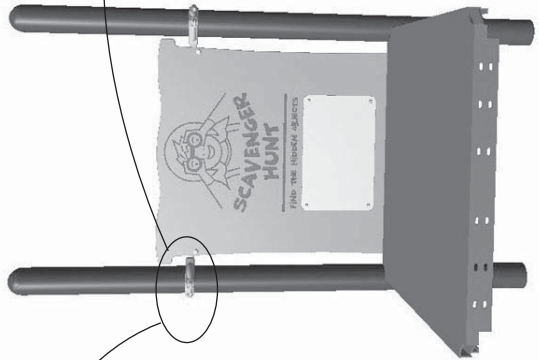
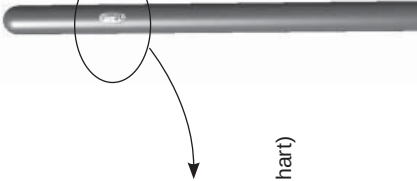




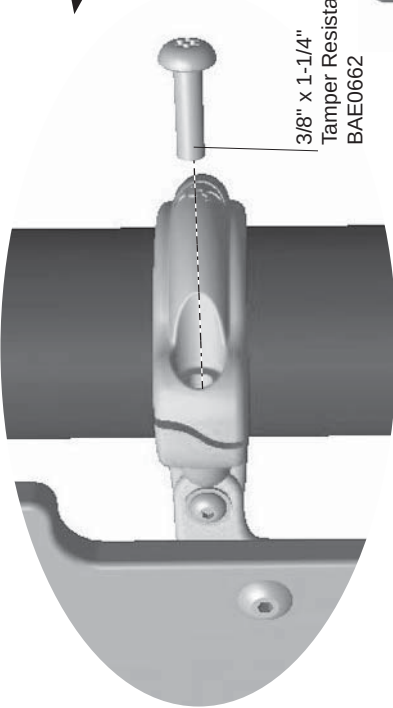
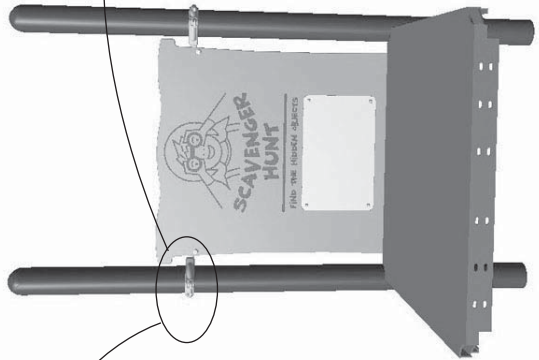
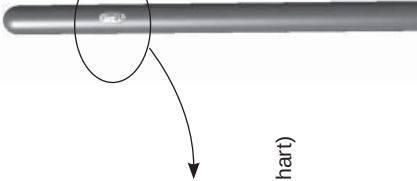




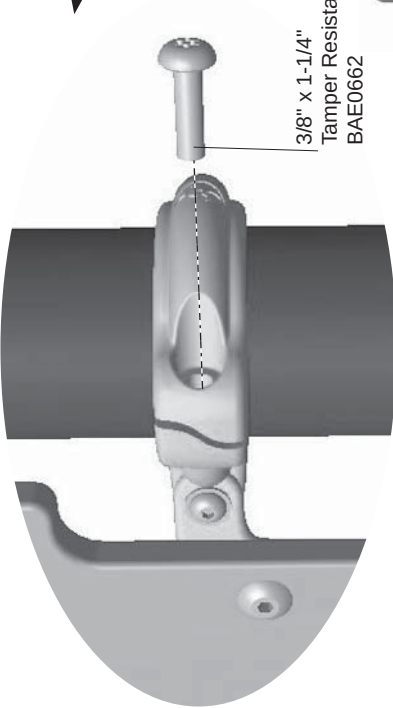
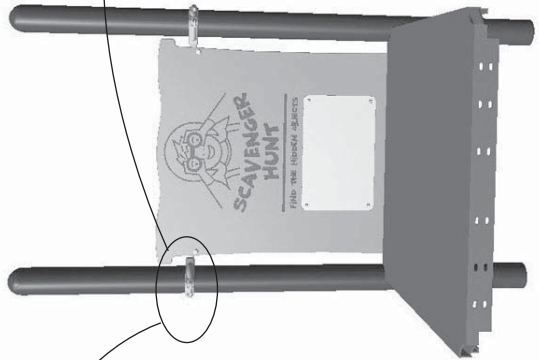
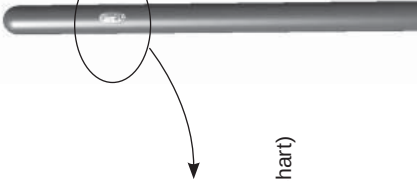




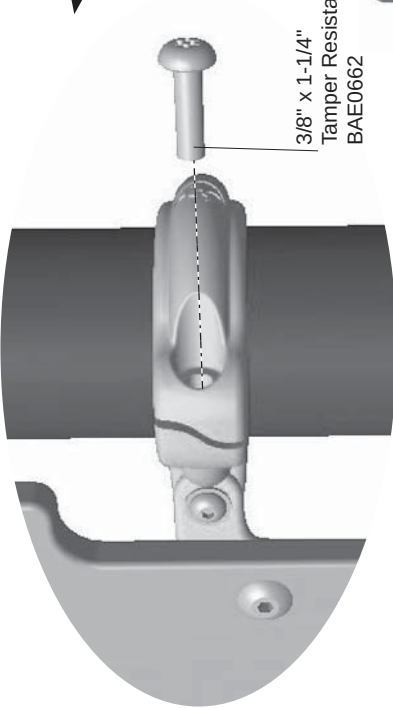
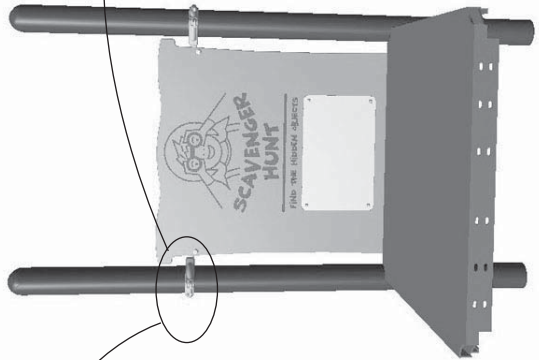
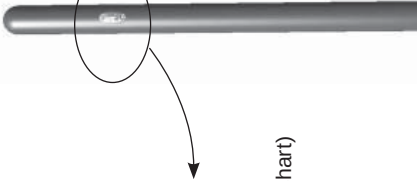




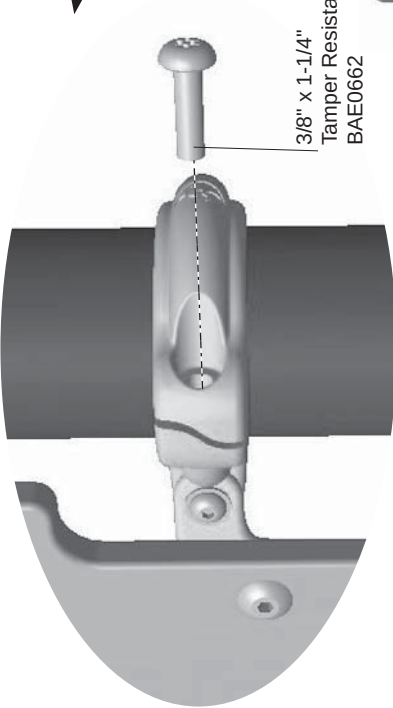
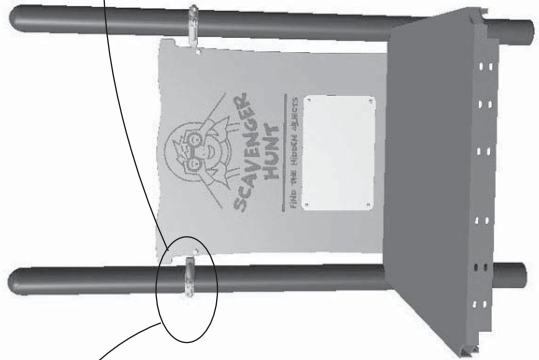
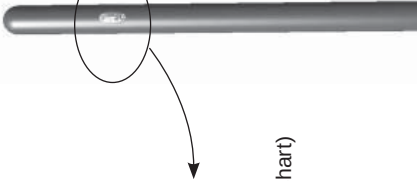




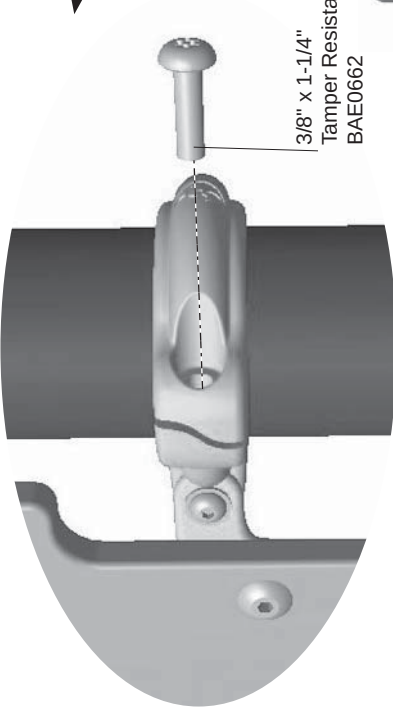
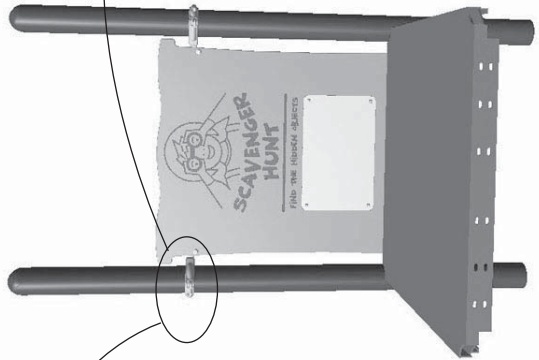
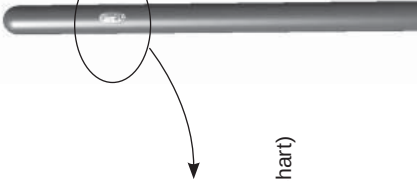




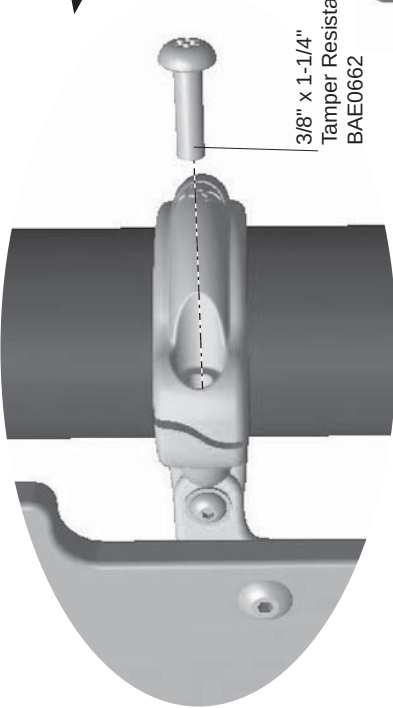
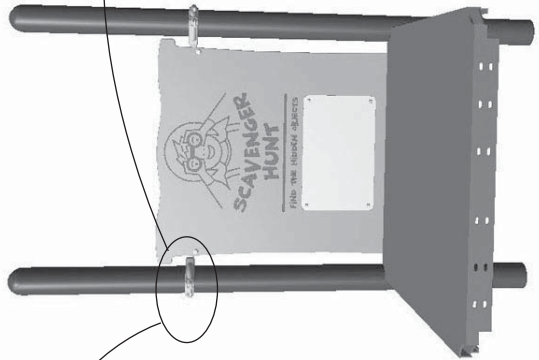
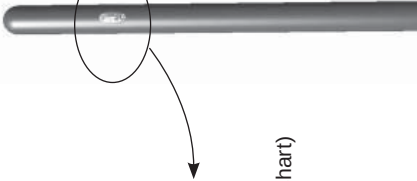




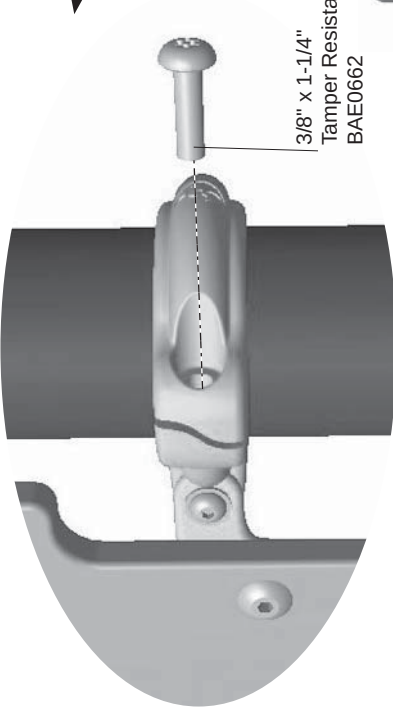
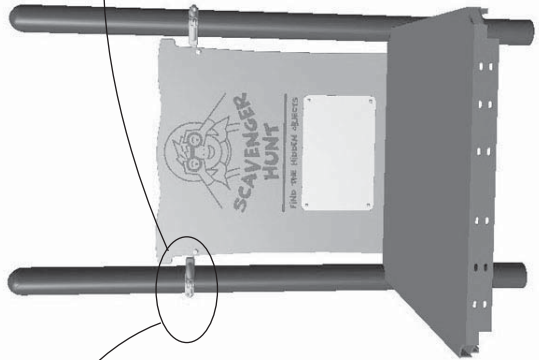
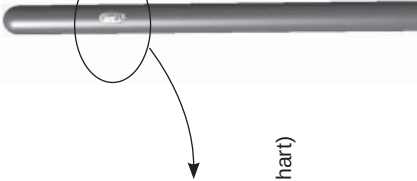




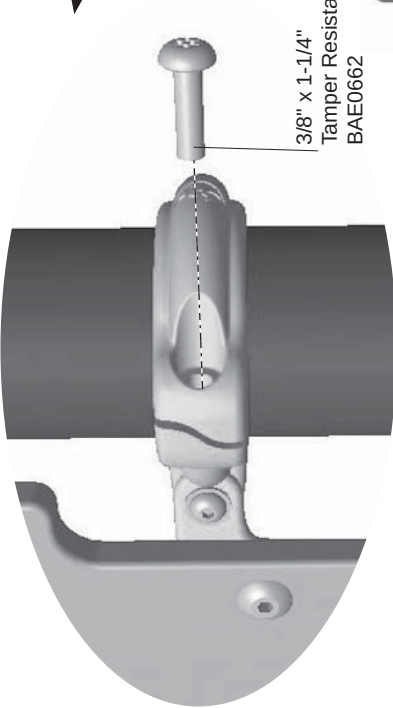
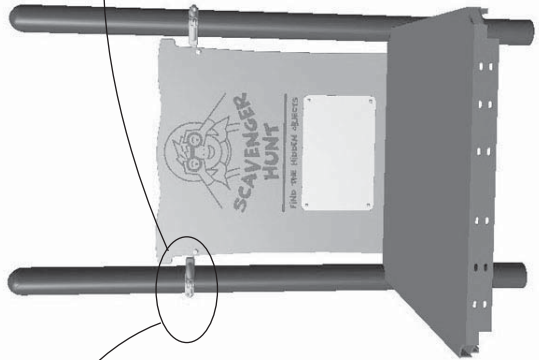
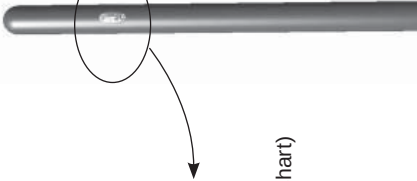




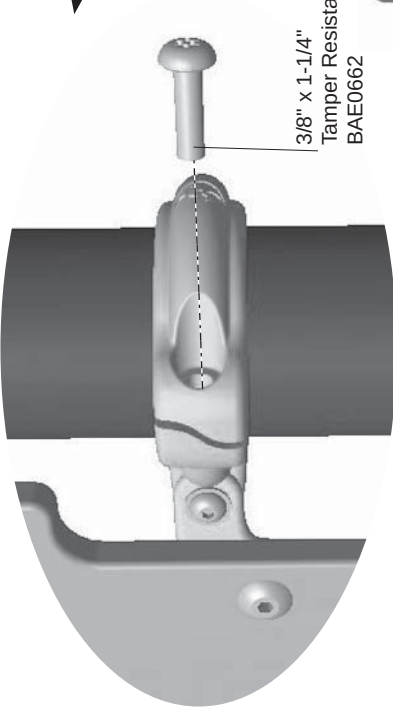
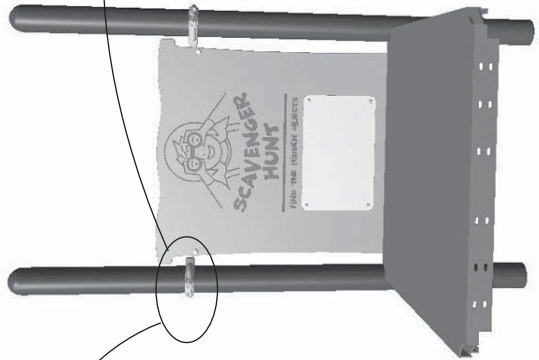
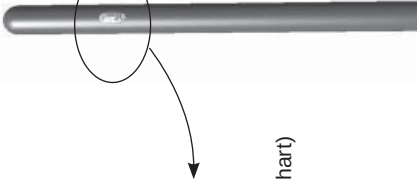




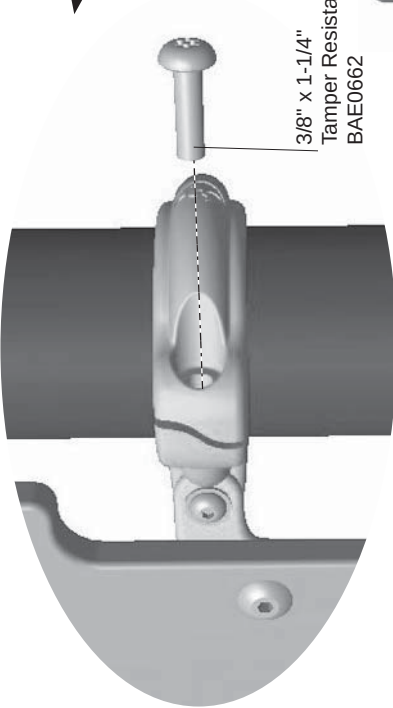
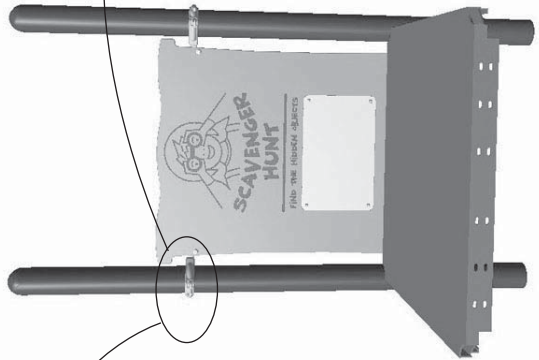
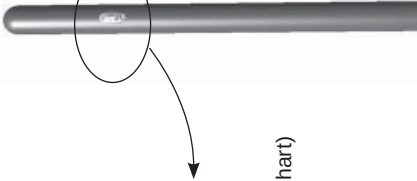




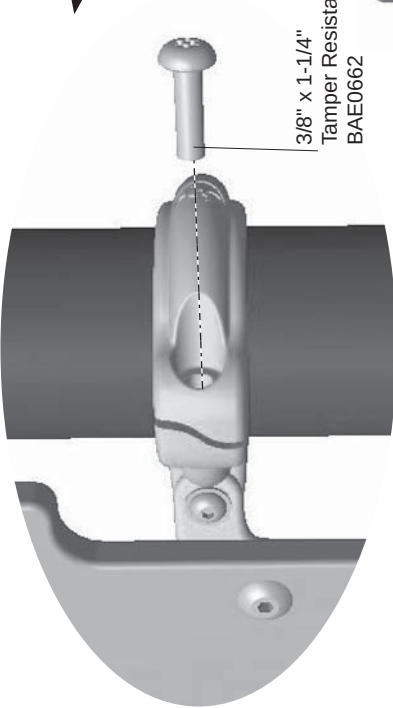
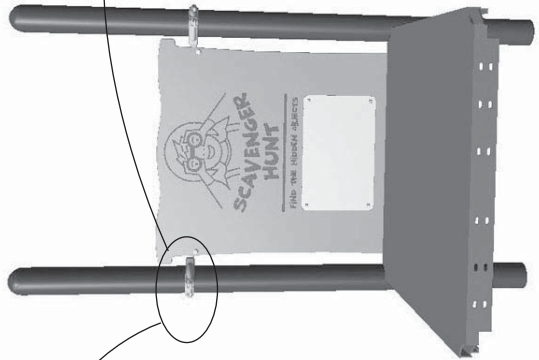




Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the fiberglass sign to the panel.

__Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Select the scavenger hunt panel, the fiberglass sign, and the appropriate hardware. There are (4) four connections. Position the fiberglass sign in the cutout section of the panel and attach as shown.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail B**. Select the panel connectors, and the appropriate hardware. There are (2) two connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail C**. Select the clamps and the appropriate hardware. There are (2) two connections. Place the flat side of each clamp against the outside of the panel connector. Attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the deck.

__Step 6: Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Raise the panel into place against the deck and align the holes in the panel with the lower holes in the deck. Attach as shown.

Note: The panel can be attached to the upper or lower deck holes depending on clamp conflict.

Attach the panel to the support posts.

__Step 7: Attach the panel to support posts. See **Detail E** and **Elevation View**. Select the clamps and the appropriate hardware. There are (2) two connections. Move the panel into position on the outside of the posts and close the clamps. Attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Final Details.

__Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Attach the castings to support posts.

__Step 9: Attach the castings to the support posts. See **Detail F**. Select the appropriate hardware. There are (2) two connections per casting, (20) twenty total connections. Choose various locations around the playground to locate the castings. Using a 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

__Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZPM4546 - SCAVENGER HUNT DECK LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AMC0292	SIGN - SCAVENGER HUNT FIBERGLASS	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56 ALUM POP (.251" - .375" GRIP RANGE)	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1265	SHEET - 42.00" x 47.00" SCAVENGER HUNT	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

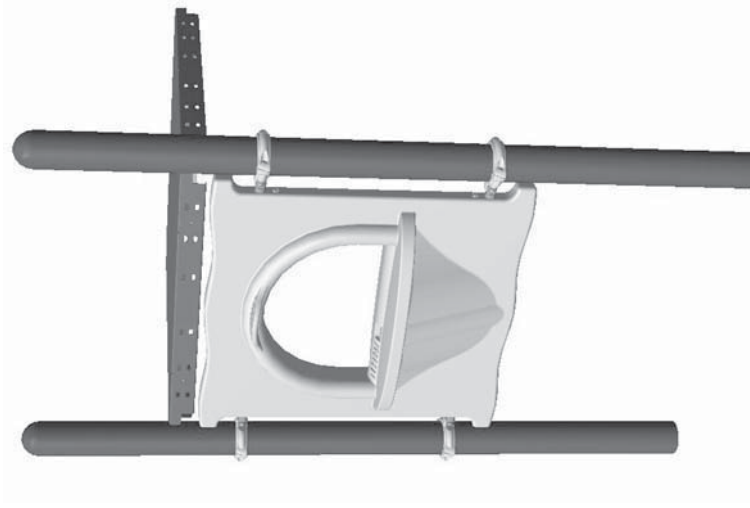


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Assembly View

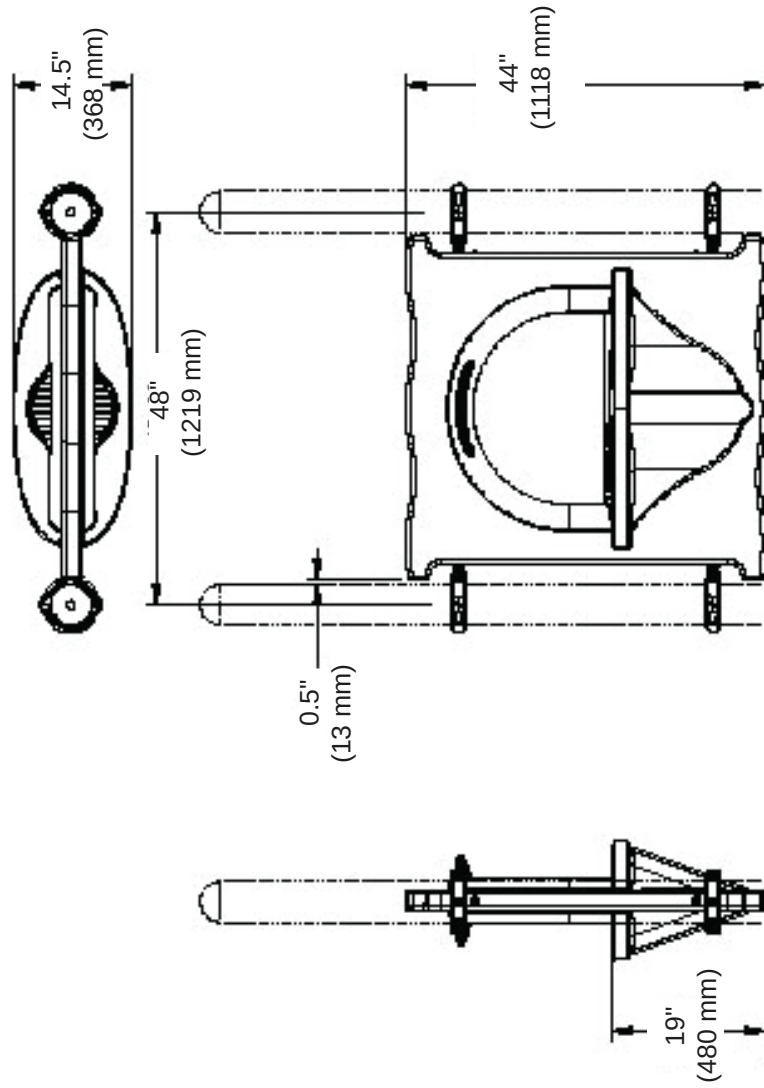
Installation Instructions Playmakers® Model PM4646 Storefront Panel

Installation Preparation

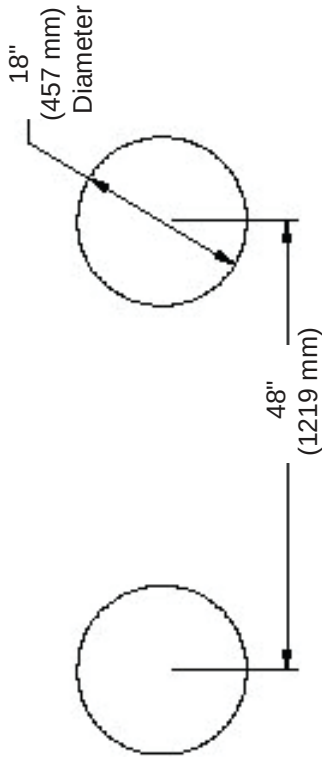
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 44.8 lbs. (20.2 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Drill
	Hammer	Critical Fall Height

Top View



Footing Diagram

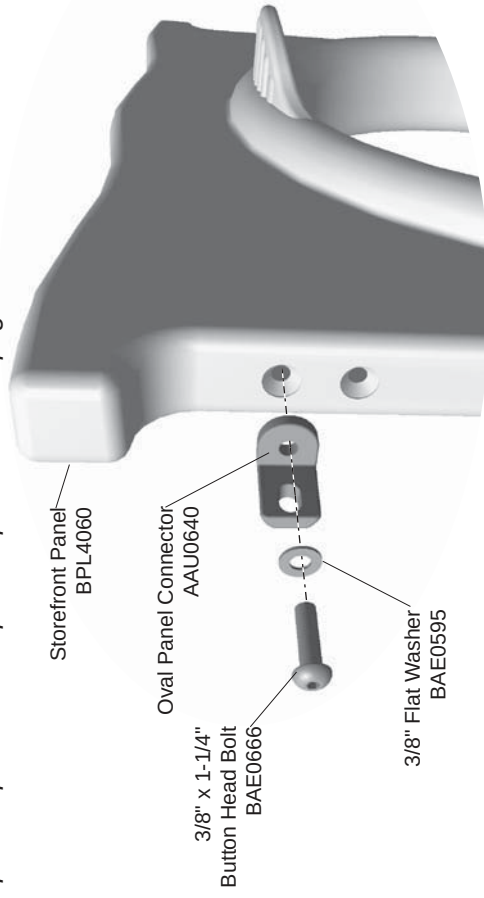


Elevation Views

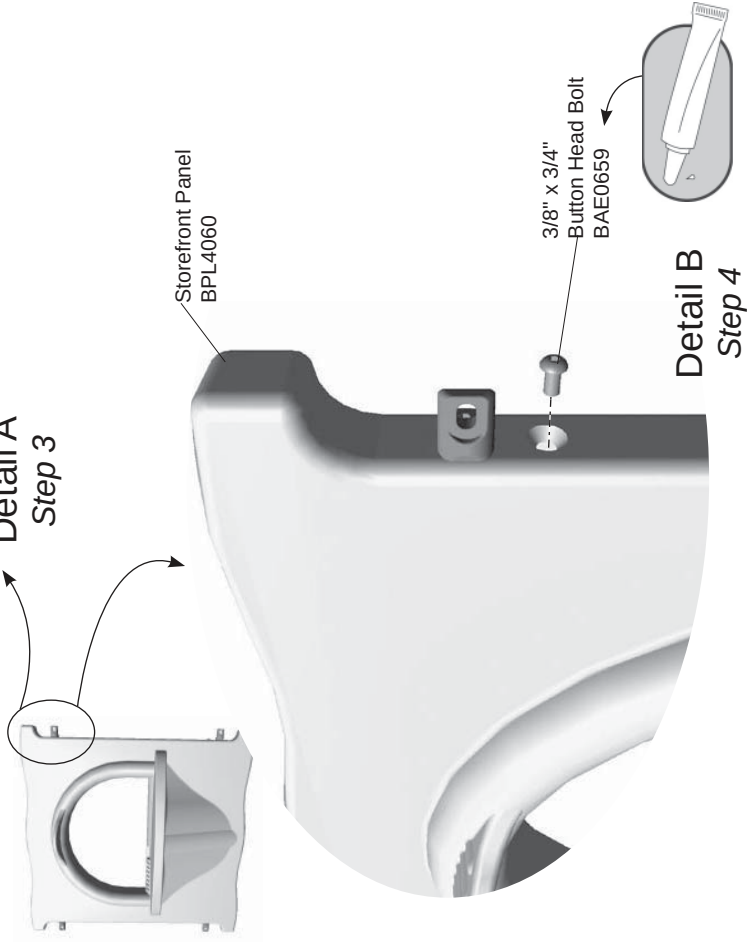
EN: 480 mm

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3



Detail B
Step 4



Storefront Panel
BPL4060

Oval Panel Connector
AAU0640

Offset Centerline
Die Cast Clamp
AAU0620

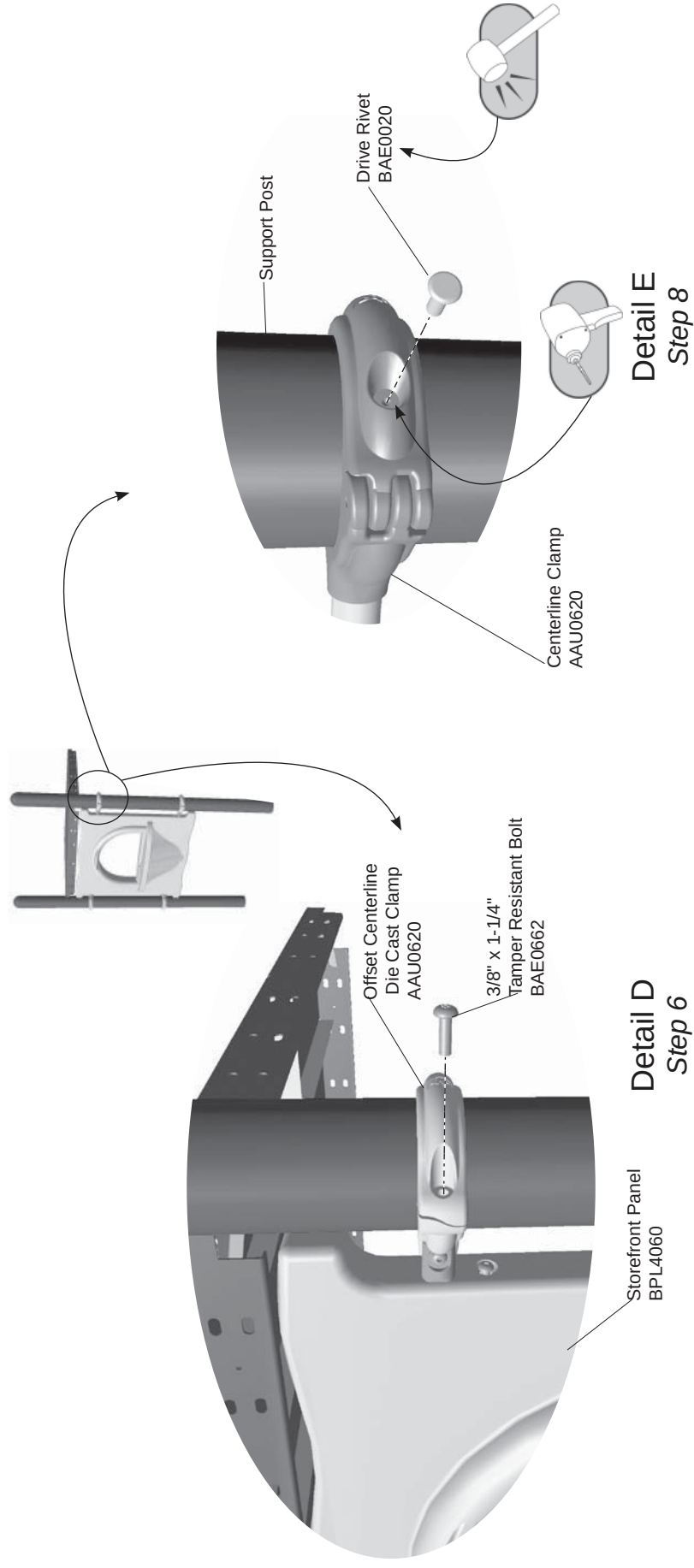
3/8" Flat Washer
BAE0595

3/8" x 1"
Button Head Bolt
BAE0664

Detail C
Step 5



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

__Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

__Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

__Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

__Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1

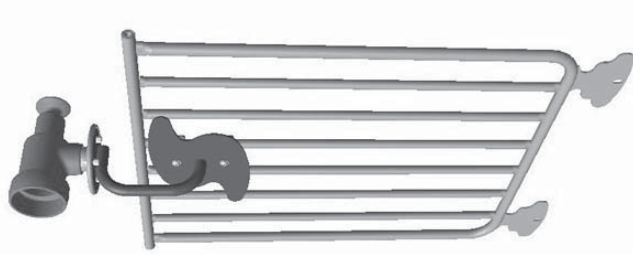
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Model PM4646
PA 768



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Assembly View (representative model)

Model	Description	Weight
ZZUN4279	Pipe Wall Mount (CH/EX)	12.2 lbs. (5.5 kg)
ZZUN4280	Pipe Wall Mount for (PM)	9.5 lbs. (4.3 kg)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)	13.2 lbs. (6 kg)
ZZUN4439	Pipe Wall Mount w/Lens (PM)	13.3 lbs. (6 kg)

Installation Instructions

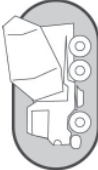
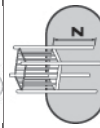
Universal Models UN4279, UN4280, UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) & Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: (refer to table)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

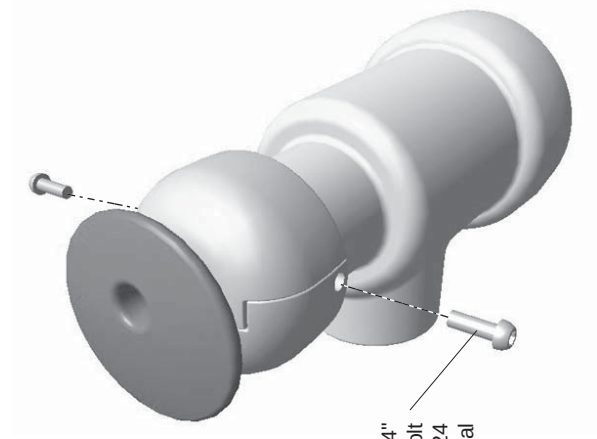
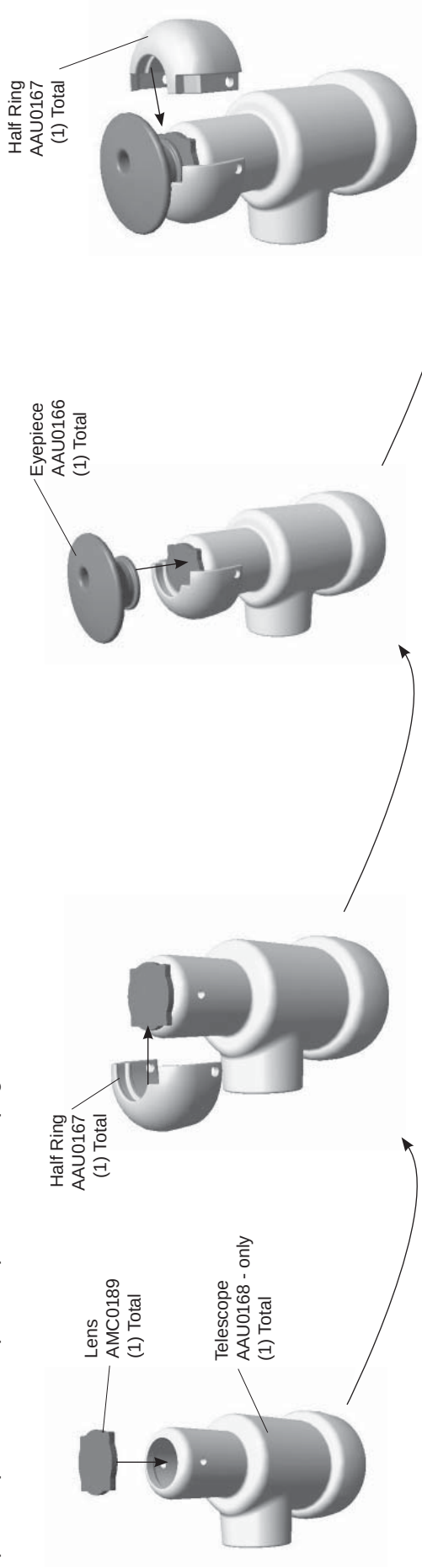
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

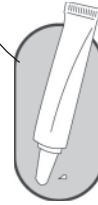


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



1/4" x 3/4"
Button Head Bolt
BAE01524
(2) Total

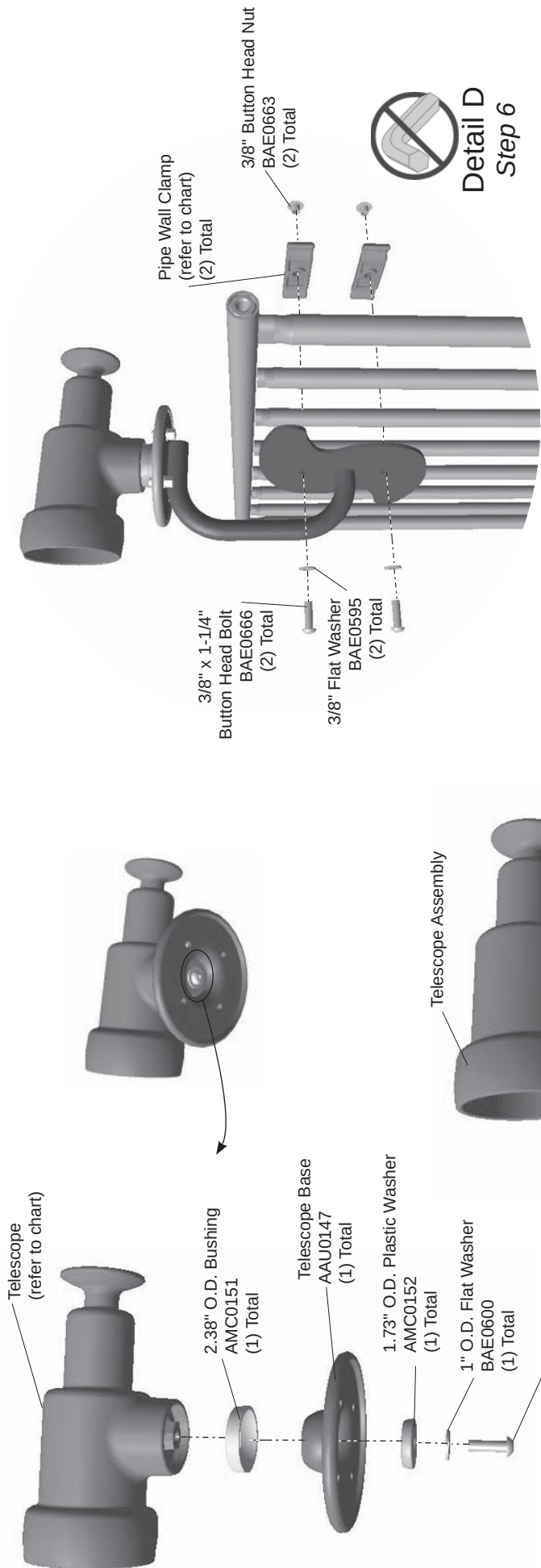


Note: Skip this page if the model being assembled is not a telescope with lens.

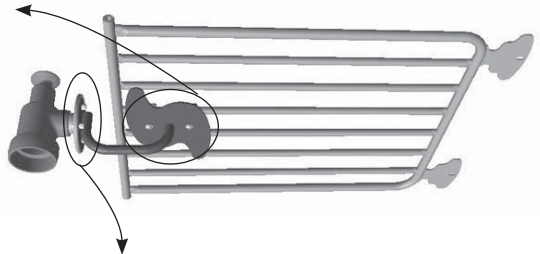


Detail A
Step 3

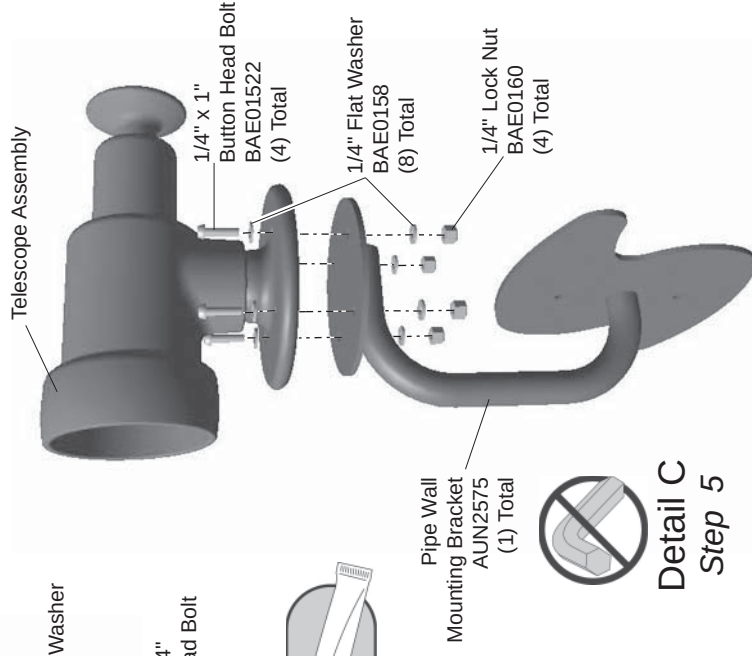
Installation Instructions



Detail B
Step 4



Detail C
Step 5



Detail D
Step 6



Model	Telescope Part #	Clamp Part #
ZZUN4279	AAU0146	AAU0043
ZZUN4280	AAU0146	AAU0380
ZZUN4438	AAU0168	AAU0043
ZZUN4439	AAU0168	AAU0380



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the telescope.

Note: *Skip this step if the model being assembled is not a telescope with a lens.*

Step 3: See Detail A. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections. The eyepiece should turn easily within the assembly.

Attach the telescope to the base.

Step 4: See Detail B. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connection.

Attach the telescope to the mounting bracket.

Step 5: See **Detail C.** Attach as shown.

Attach the bracket to the pipe wall barrier.

Step 6: See **Detail D.** Position the bracket on the proper side of the pipe wall barrier looking out from the structure. The telescope should extend above the pipe wall barrier with the eyepiece toward the deck. Attach as shown.

Final Details.

Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Bill of Materials

UN4279 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

UN4280 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4



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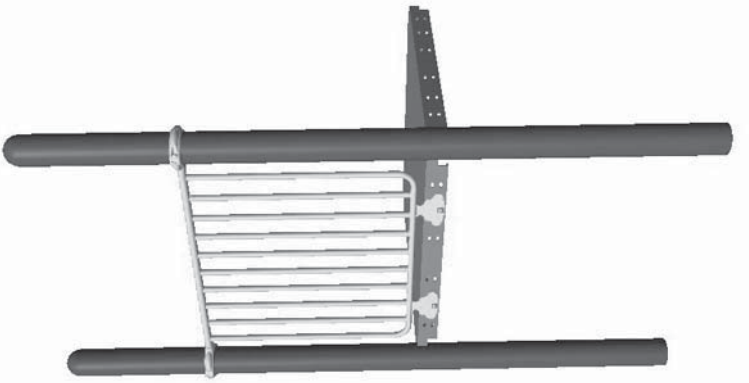
UN4438 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2

UN4439 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2



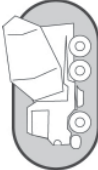
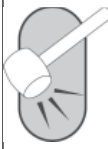
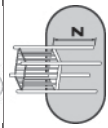


Assembly View

Installation Instructions Playmakers® Model PM4090 Centerline Pipe Wall Barrier

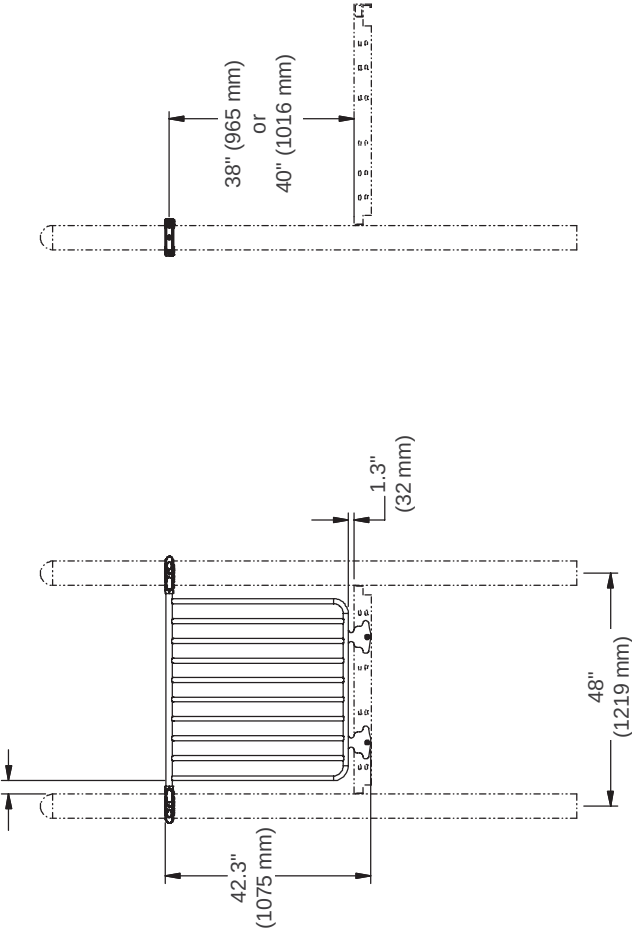
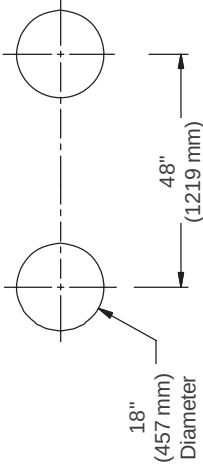
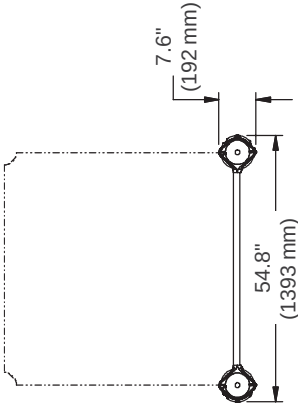
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 installation-hours
 Weight: 43 lbs. (19,4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

Top View

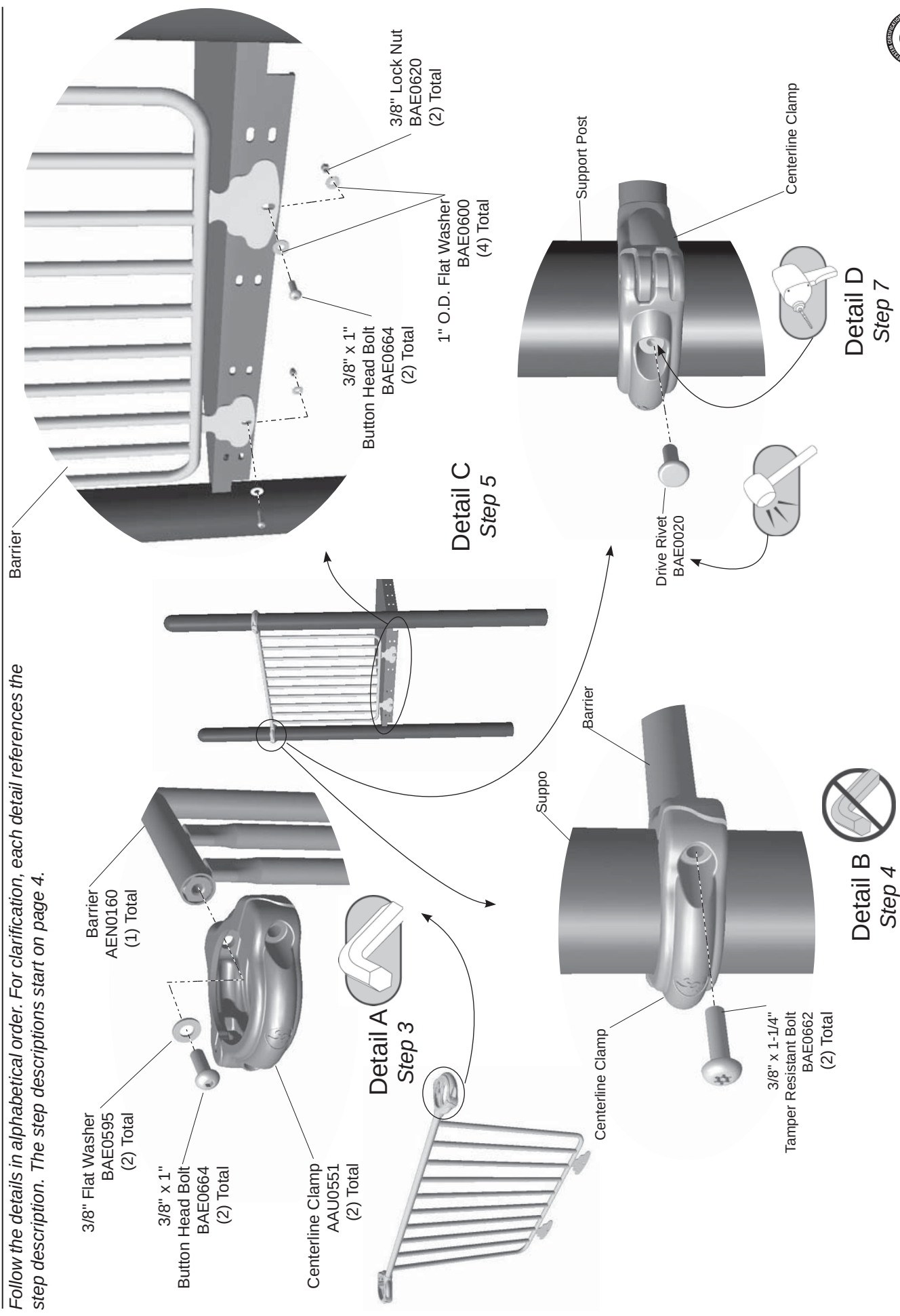


Elevation View

Footprint Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach a shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

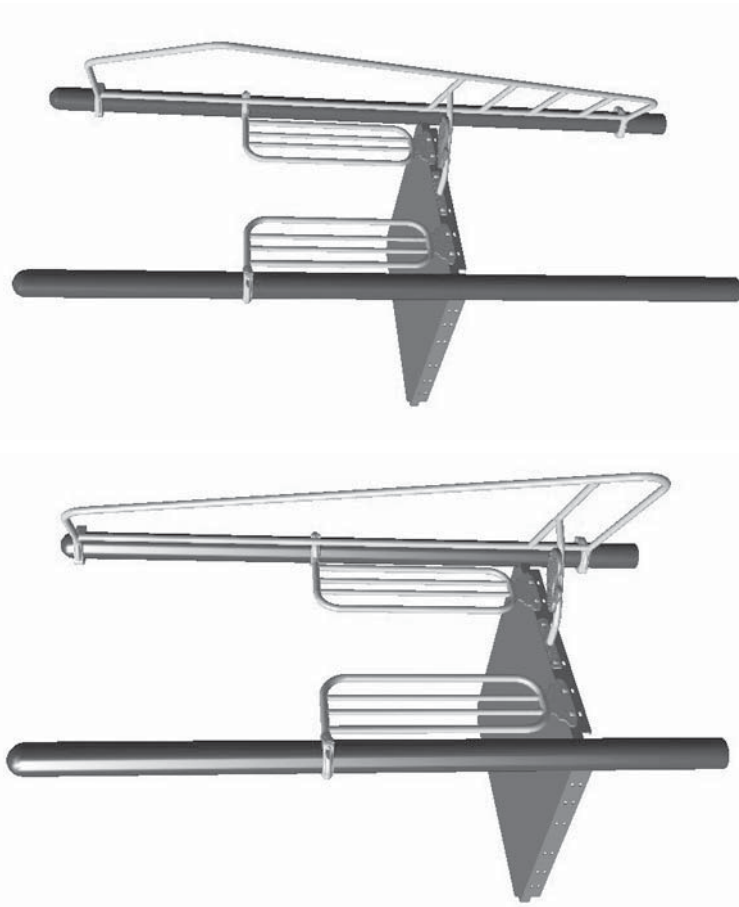
Bill of Materials

PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2

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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31.9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33.2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33.8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34.8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35.9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180, PM7189, PM7190, & PM7196

24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)

Small Angled Climber

48 in. (1219 mm) , 60 in. (1524 mm), and 72 in. (1829 mm)

Large Angled Climber

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 2 man-hours

Weight: (refer to table)

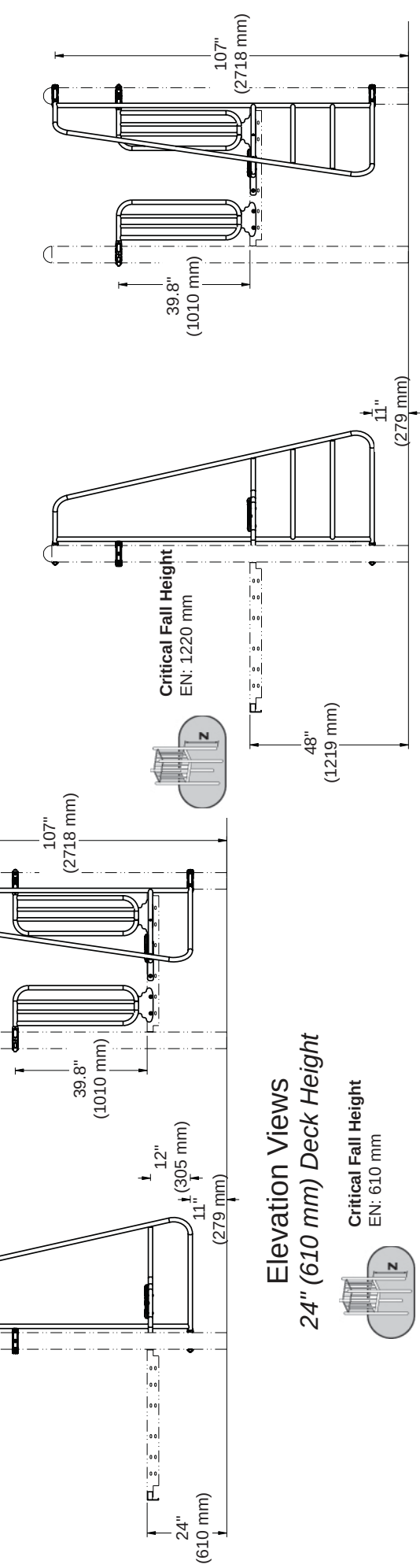
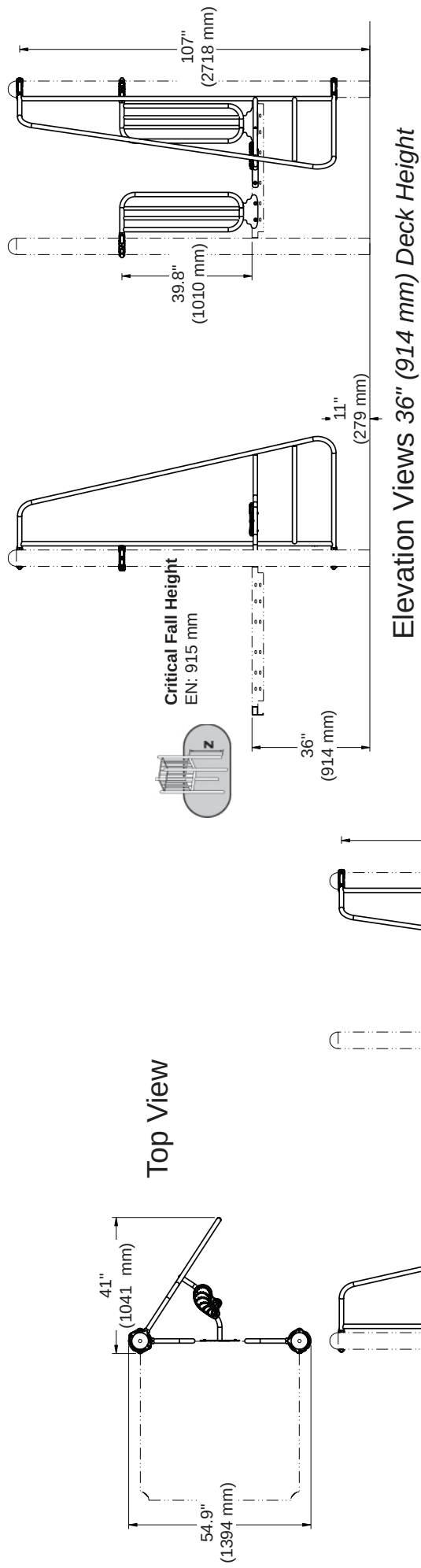
Use Zone: Refer to Master Drawing

User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

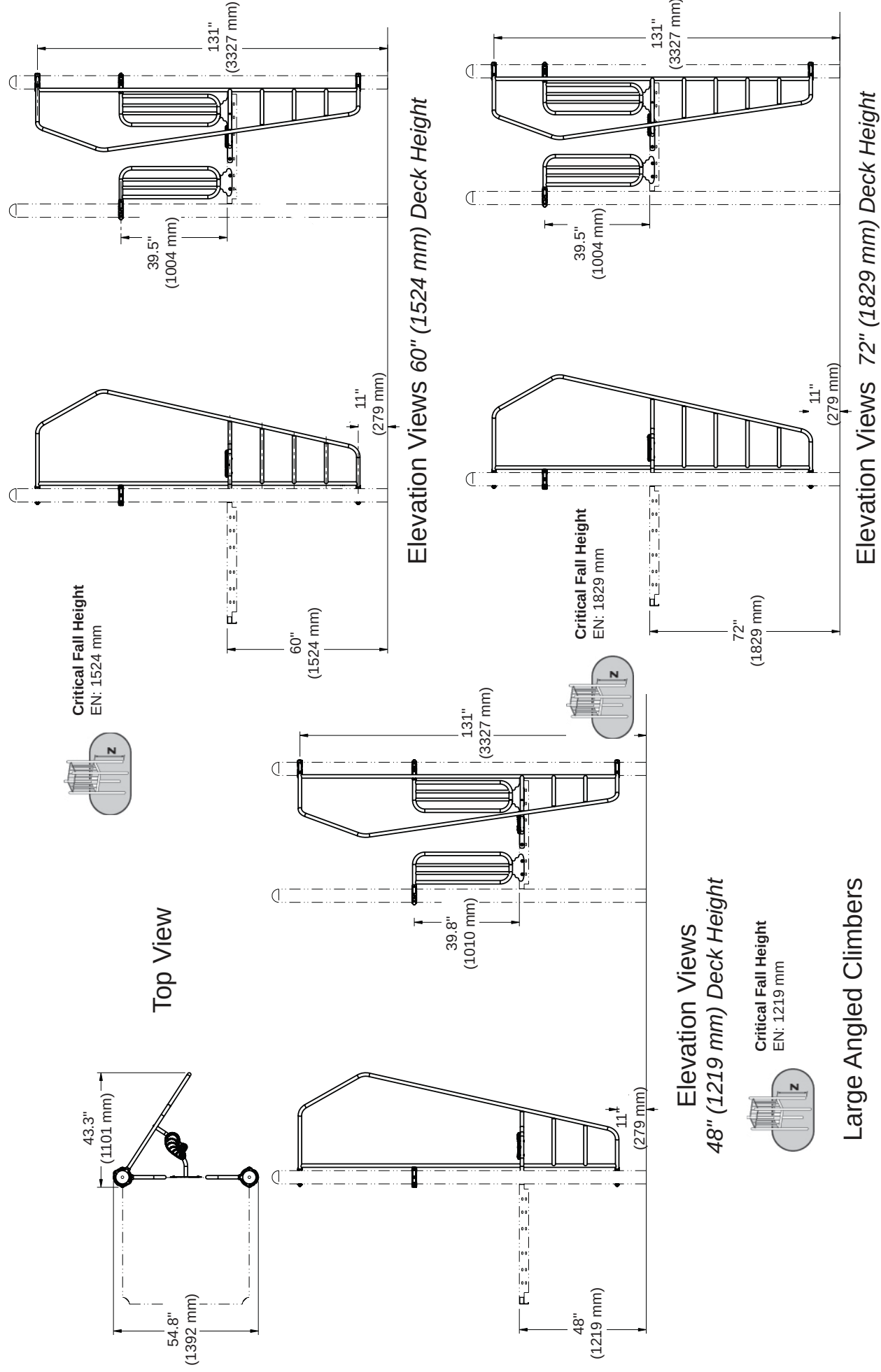
Installation Instructions



Small Angled Climbers

Elevation Views 48" (1219 mm) Deck Height

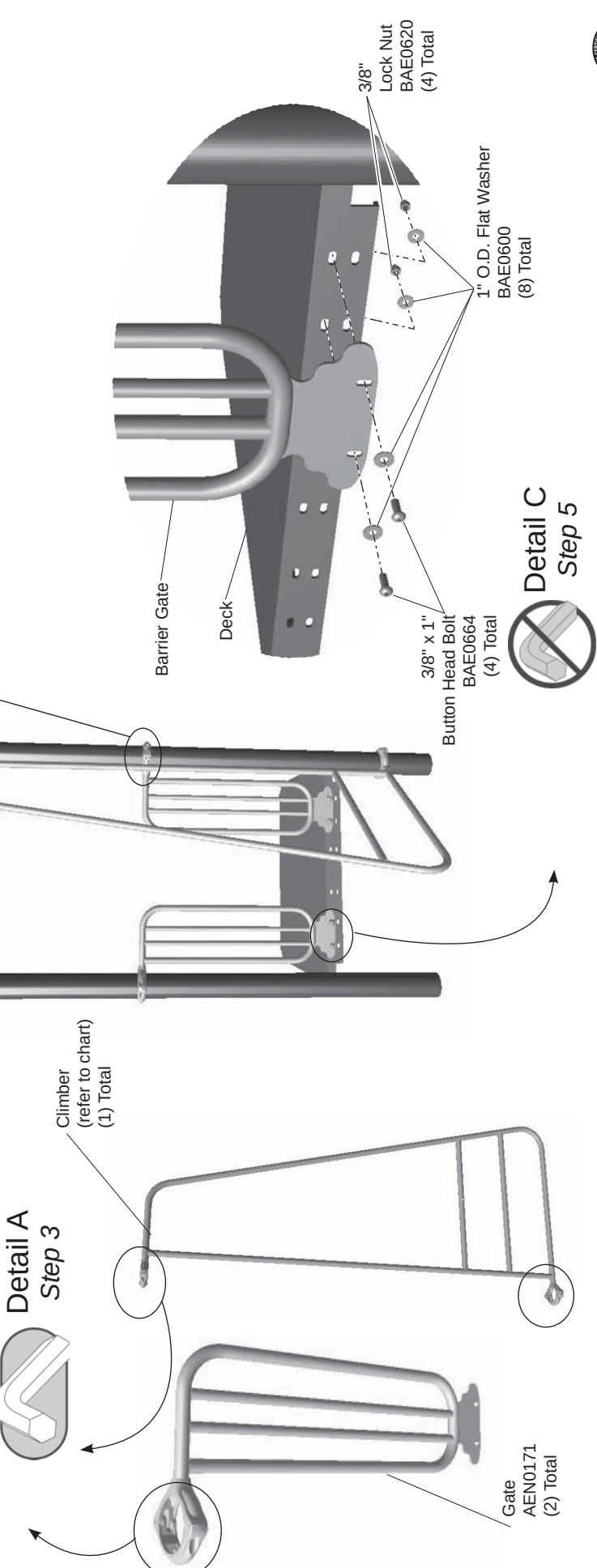
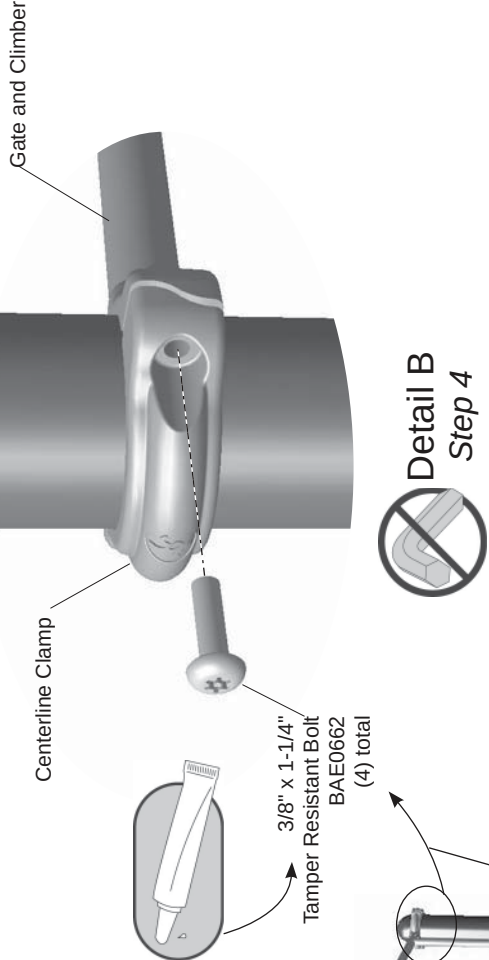
Installation Instructions



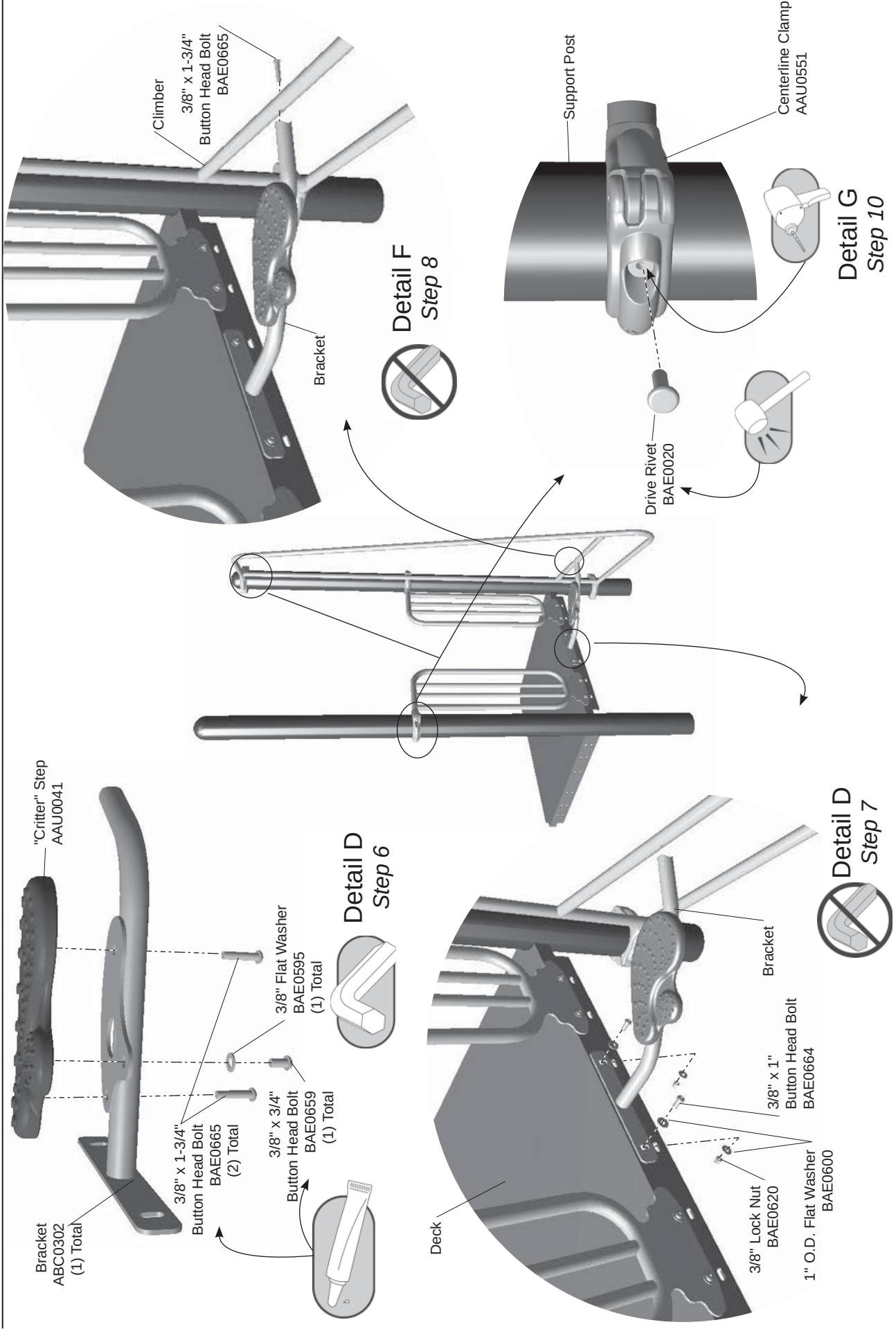
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.

Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.

Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.

Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.

Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.

Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.

Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket

Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3



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Installation Instructions

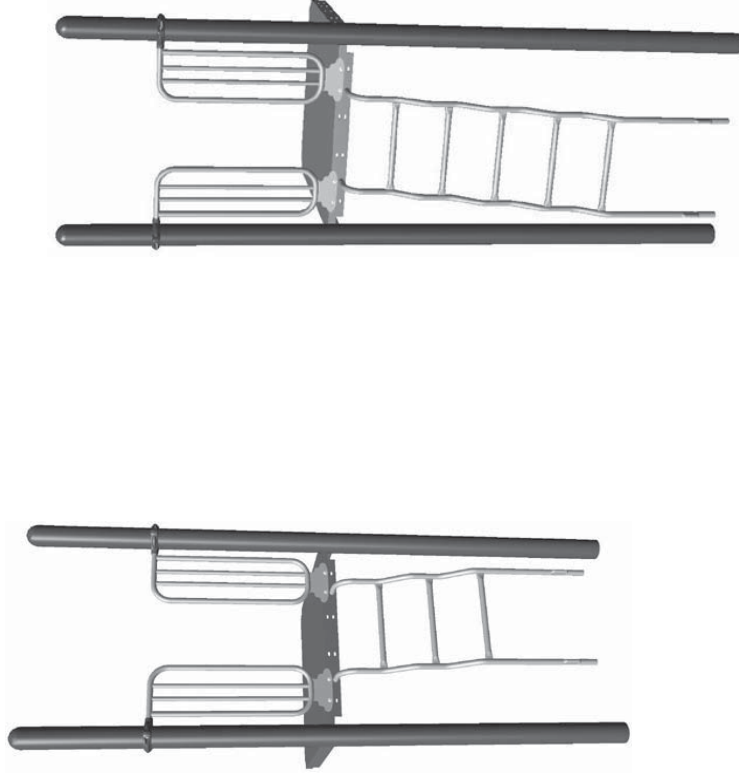
Playworld Systems

Models PM8289, PM8290, PM8300, PM8310

Ribbon Climber

36 in. (914 mm), 48 in. (1219 mm),

60 in. (1524 mm), 72 in. (1829 mm)



Assembly View (representative models)

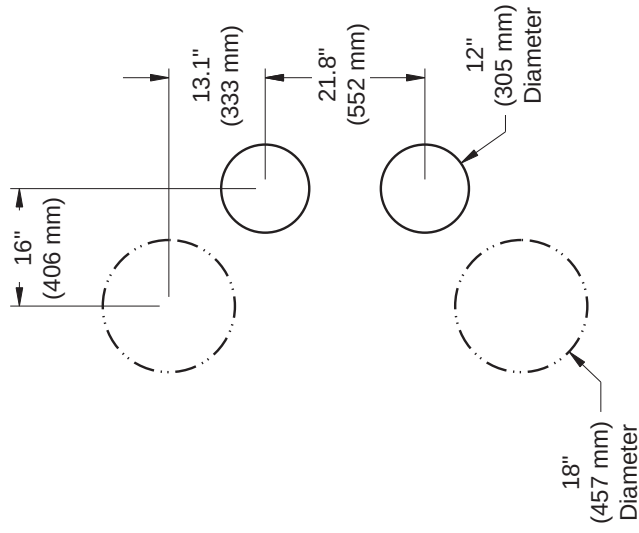
Installation Preparation

Recommended Crew:	One (1) adult
Installation Time:	1.5 hours
Weight:	See table at lower left
Concrete Required:	0.06 cubic yard (0.5 cubic meters)
Use Zone:	Refer to Use Zone on Master Drawing
User Group Age (years):	36"-48": ASTM/CSA: 2-12, EN: 2-14
.....	60"-72": ASTM/CSA: 5-12, EN: 6-14

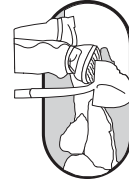
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Deck Height	PM8289 36 in. (914 mm)	PM8290 48 in. (1219 mm)	PM8300 60 in. (1524 mm)	PM8310 72 in. (1829 mm)
Weight	52 lbs. 23.6 kilos	59.1 lbs. 26.9 kilos	63.4 lbs. 28.8 kilos	69 lbs. 31.4 kilos

Installation Instructions

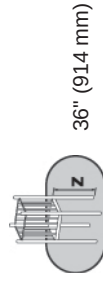
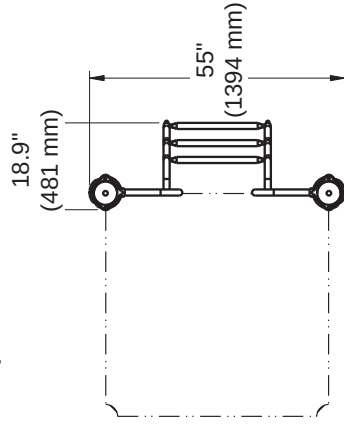


Footing Diagram

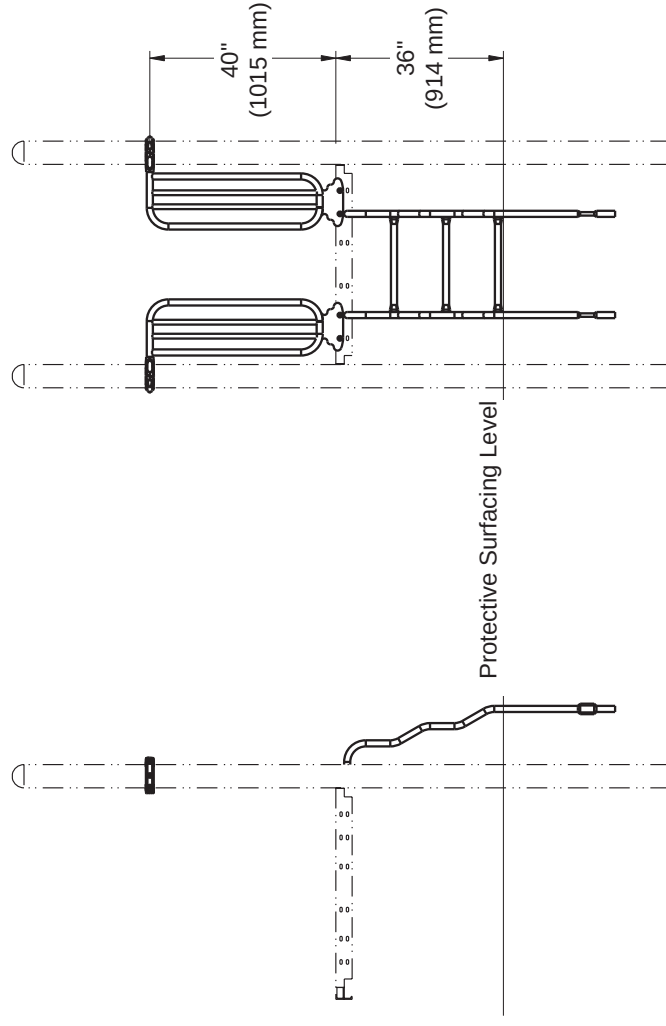


Step 4

Top View



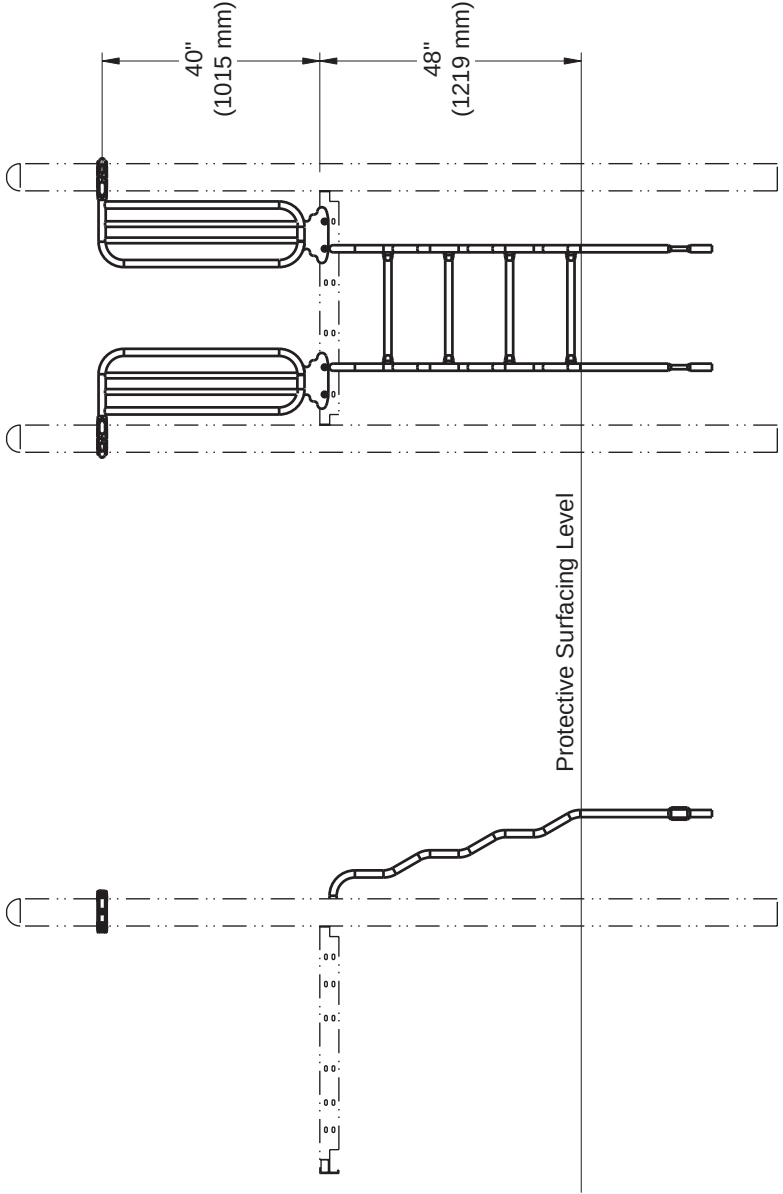
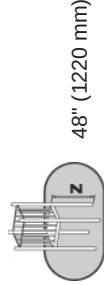
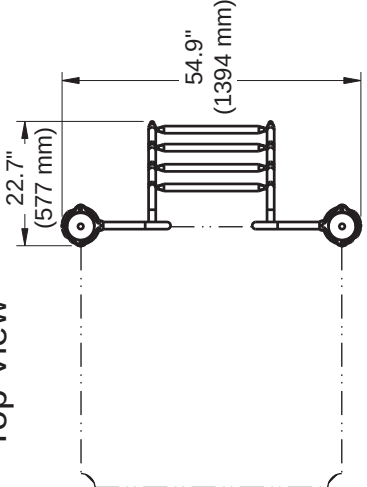
36" (914 mm)



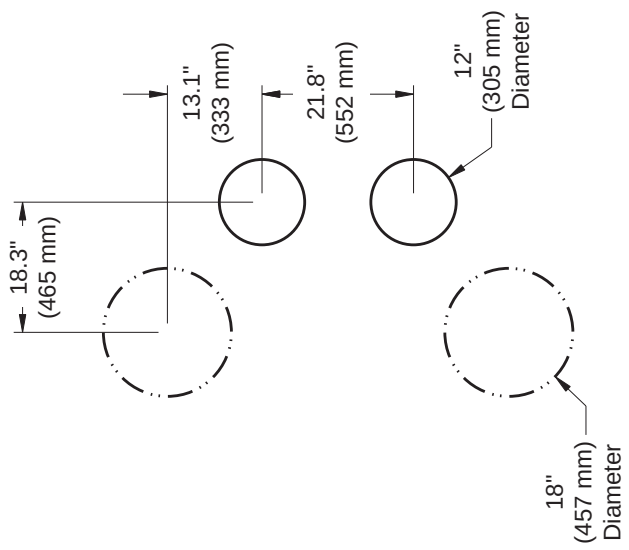
Elevation View
36" (914 mm) Deck

Installation Instructions

Top View



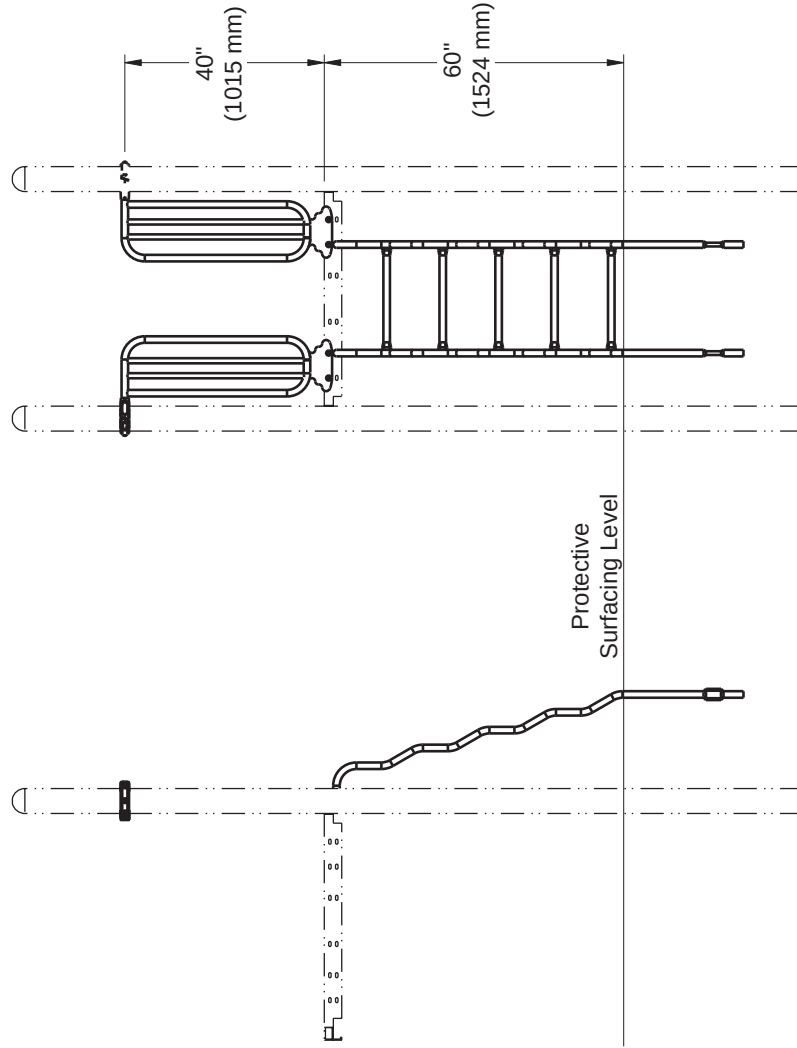
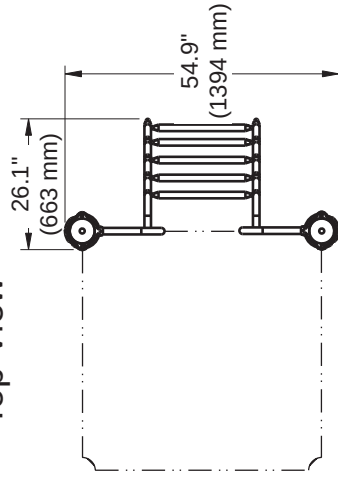
Elevation View
48" (1219 mm) Deck



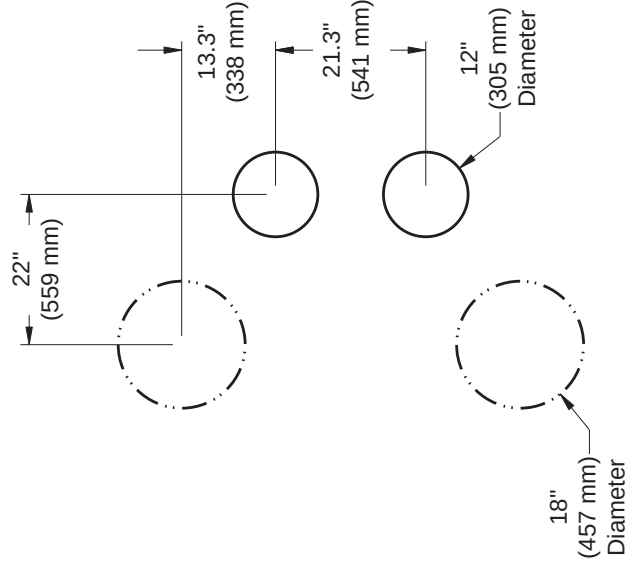
Footing Diagram

Installation Instructions

Top View



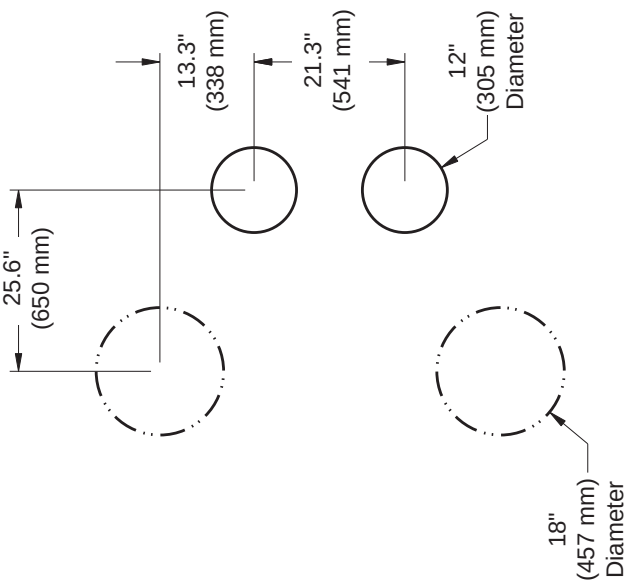
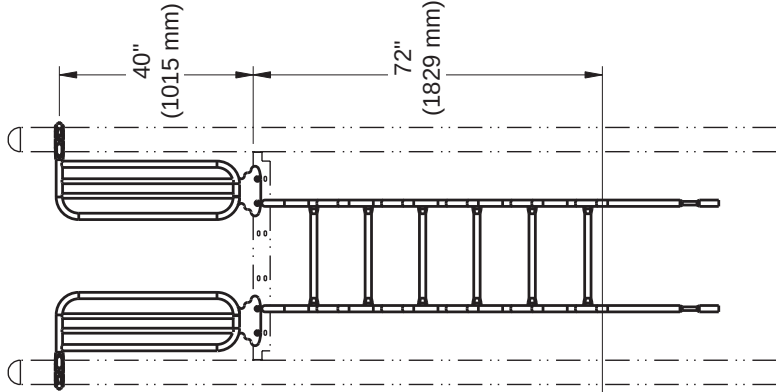
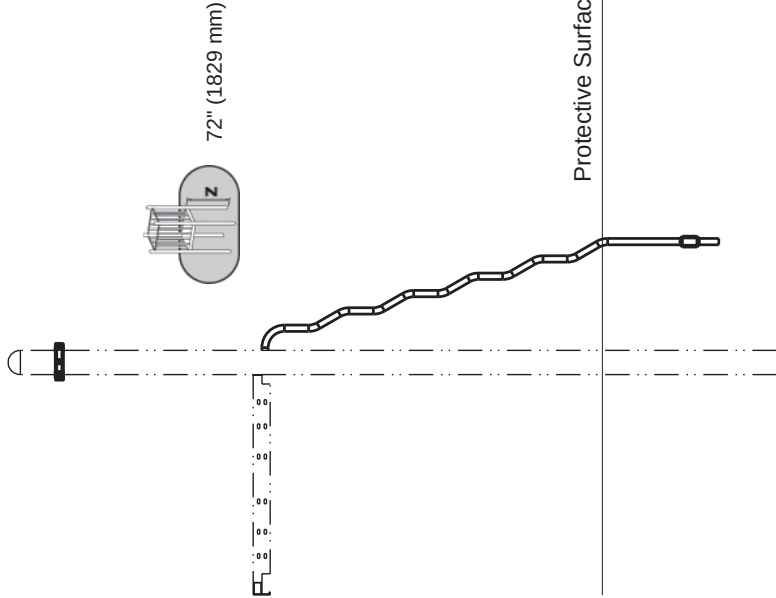
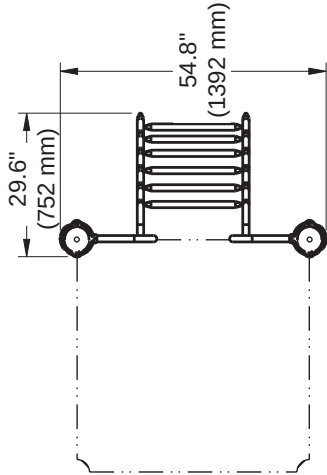
Elevation View
60" (1524 mm) Deck



Footing Diagram

Installation Instructions

Top View

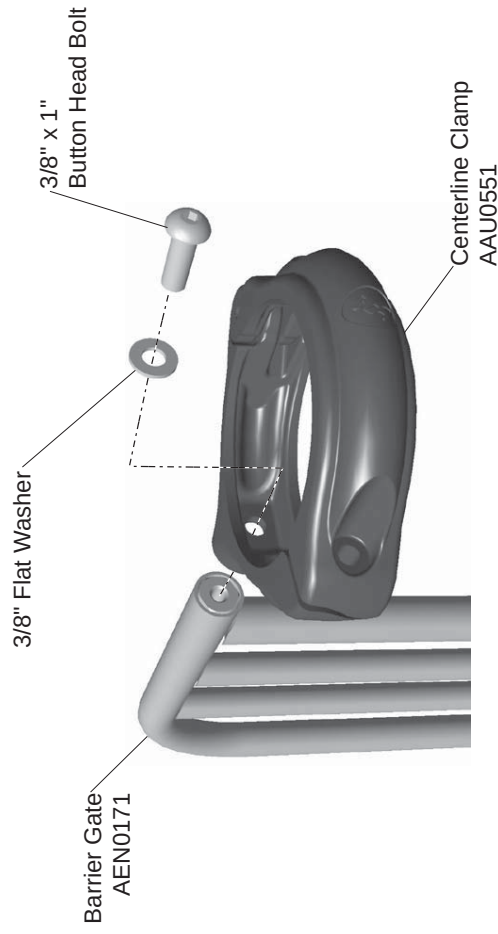


Footing Diagram

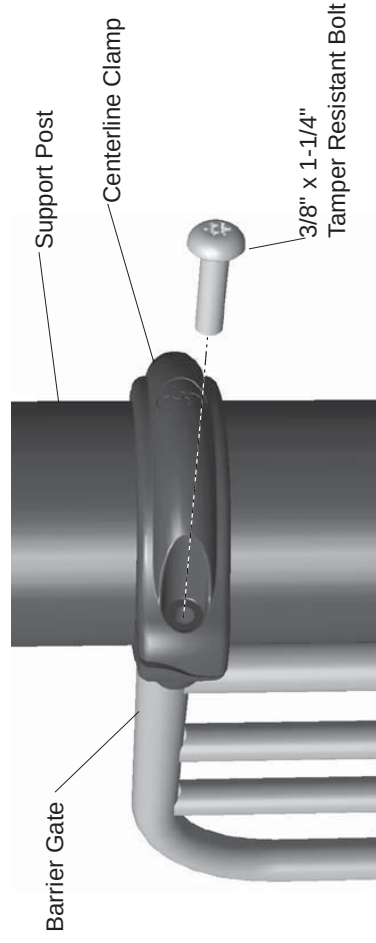
Elevation View
72" (1829 mm) Deck

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



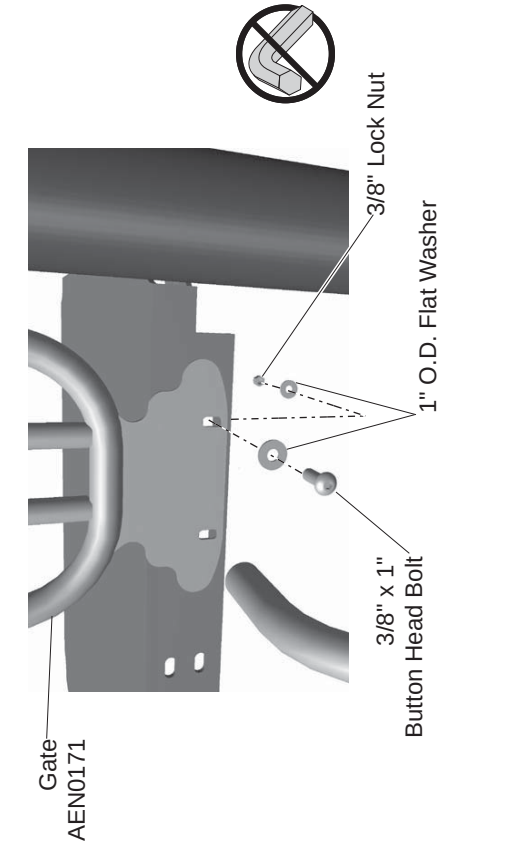
Detail A
Step 5



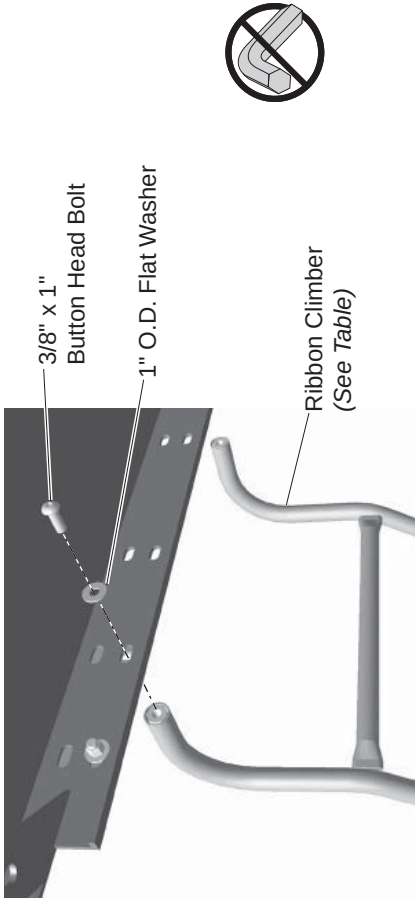
Detail B
Step 6



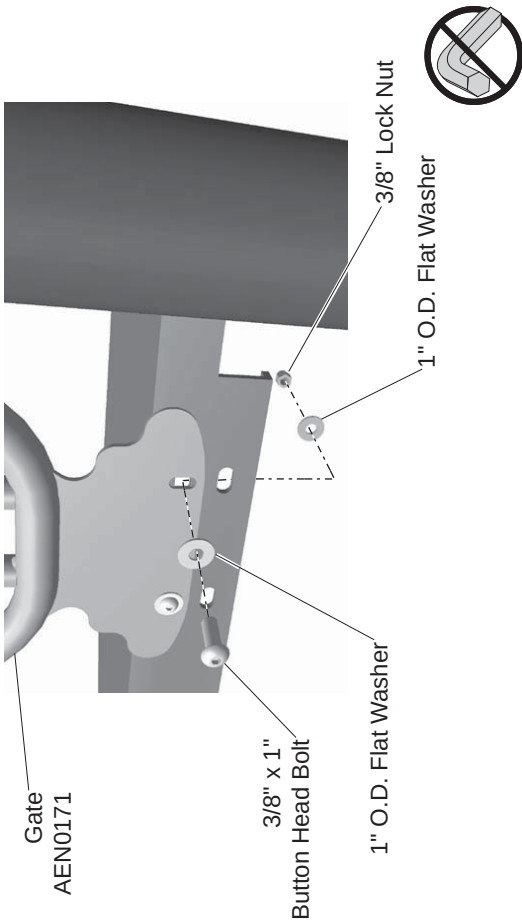
Installation Instructions



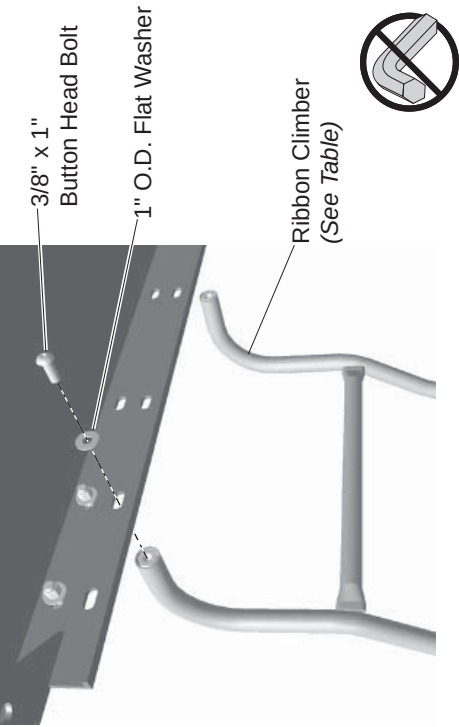
Gates in lower position



Detail C
Step 7

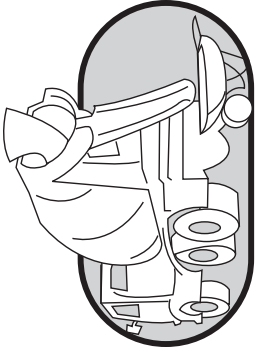


Gates in upper position



Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

Installation Instructions



Step 8
Pour Concrete

INSTALLATION

—A Note Before You Begin:

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

—Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

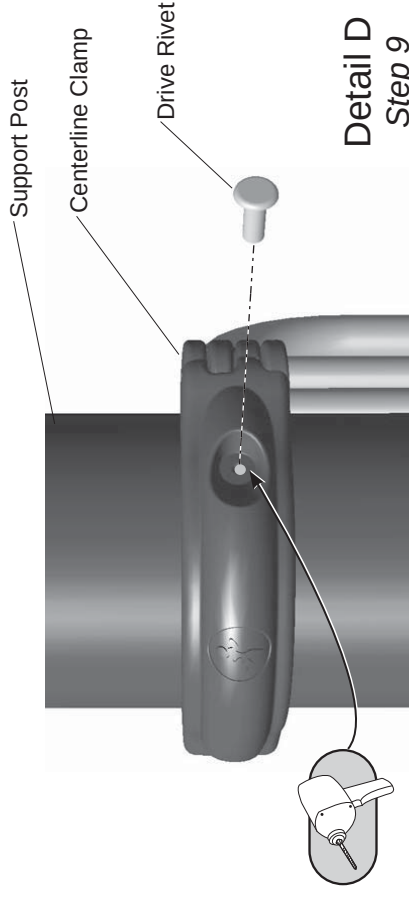
—Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

—Step 3: Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

—Step 4: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.

—Step 5: Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.



Detail D
Step 9

Attach the clamps to the support posts.

—Step 6: Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

—Step 7: Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

—Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

—Step 9: Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1	ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2	AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10	BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8



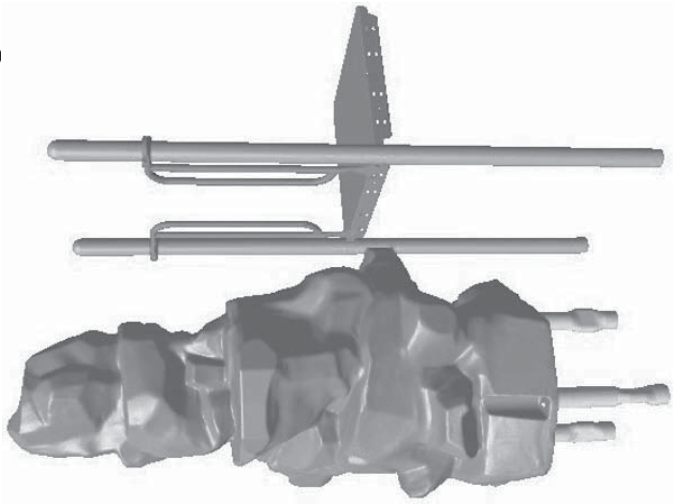
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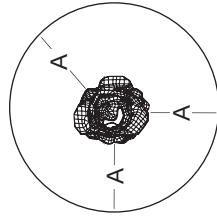


PLAYWORLD SYSTEMS®

The world needs play.®



Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1948 mm

RockBlocks™

Installation Instructions

Universal Models Un8246 and UN8246S

RockBlocks Stalagmite Climber

for 2 ft. (610 mm), 3 ft. (914 mm) and
4 ft. (1219 mm) Decks

In-Ground and Surface Mount

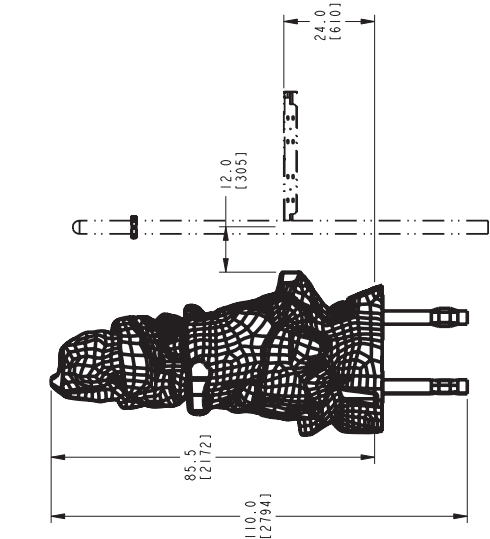
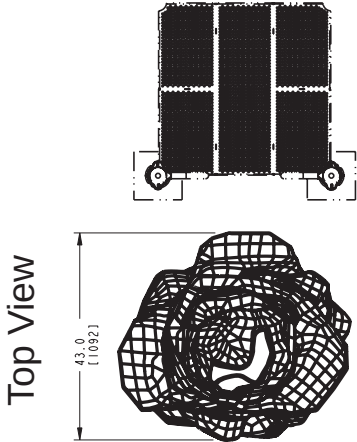
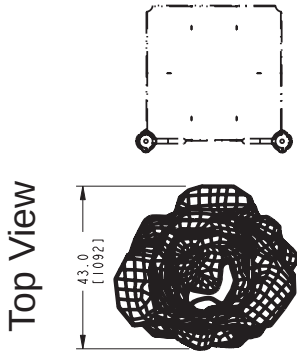
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (in-ground): 1.75 man-hours
Installation Time (surface mount): 0.25 man-hour
Concrete Required: 0.09 cubic yard (0.06 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

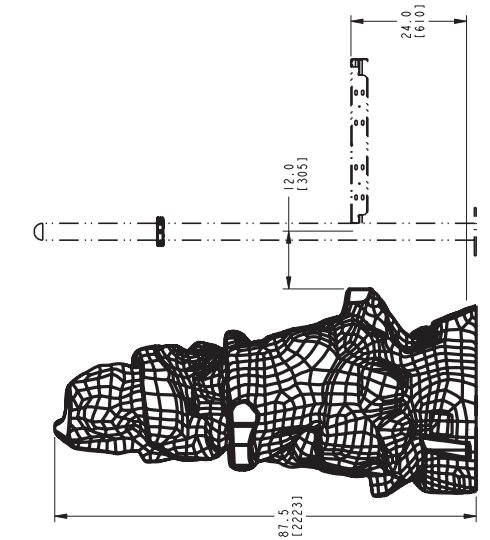
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

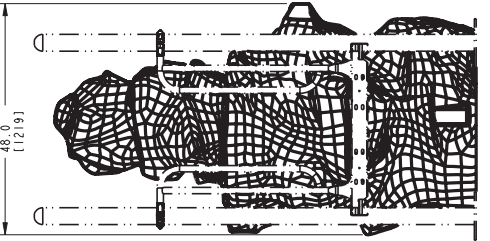
KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



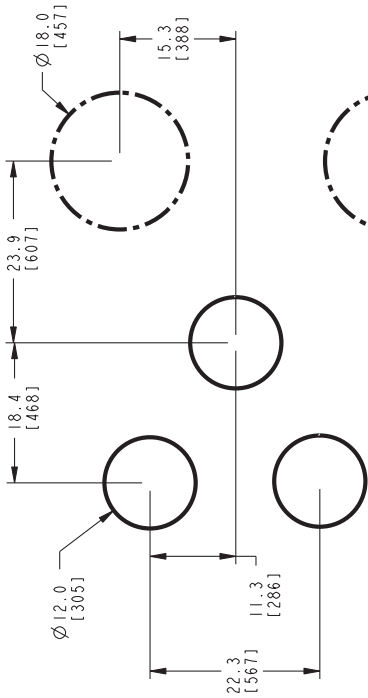
Elevation Views
UN8246



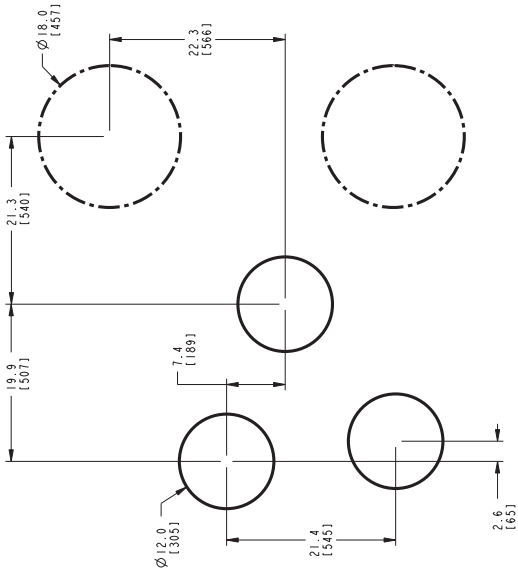
Elevation Views
UN8246S



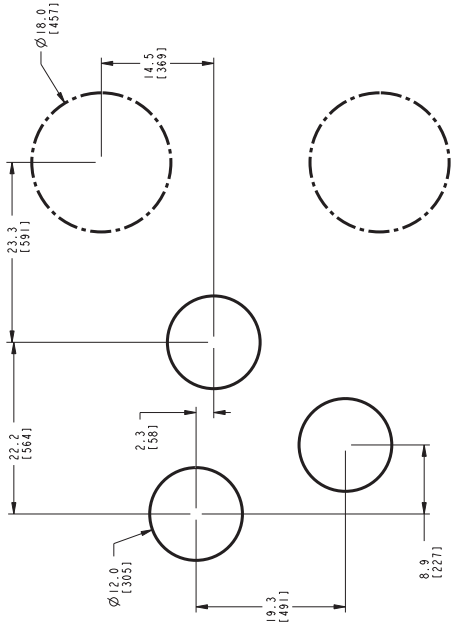
Installation Instructions



2 Ft. (610 mm) Deck



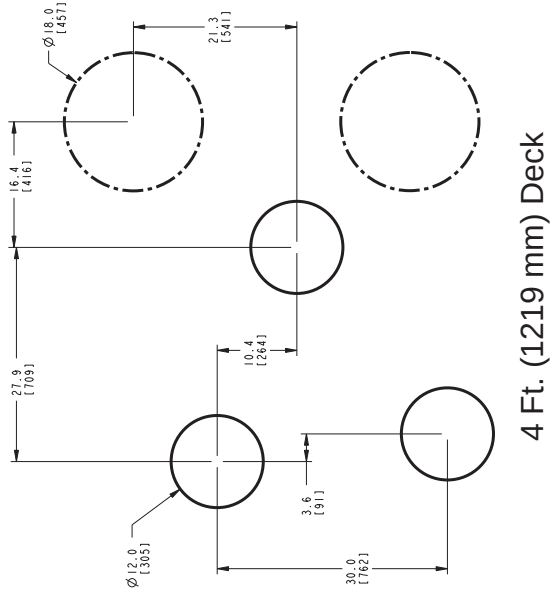
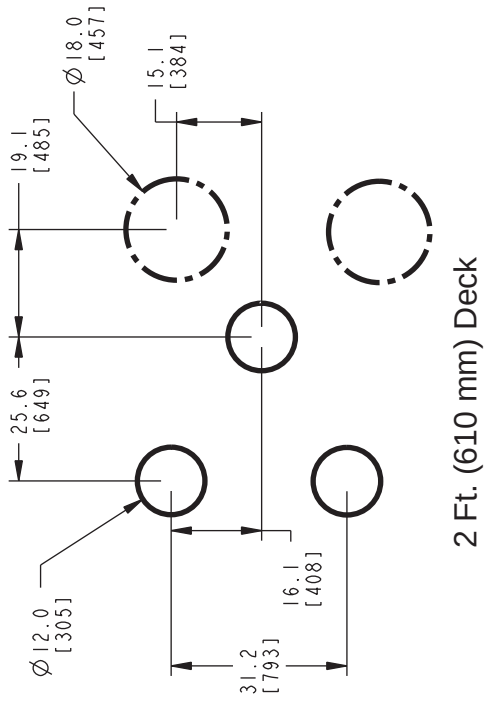
4 Ft. (1219 mm) Deck



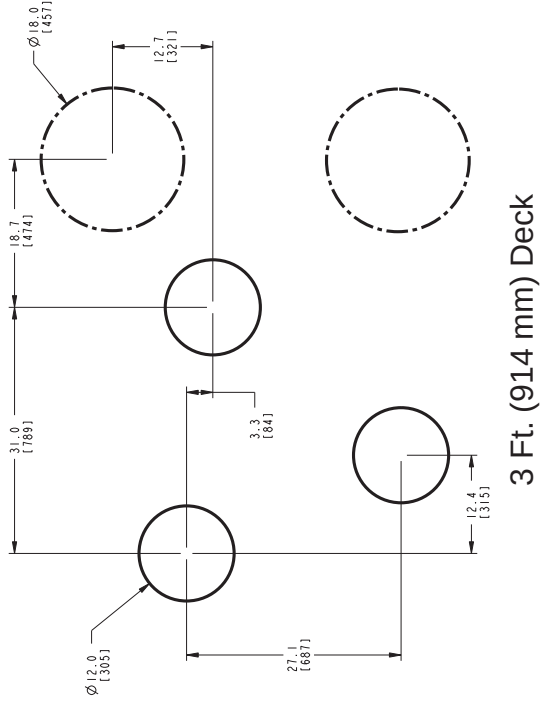
3 Ft. (914 mm) Deck

Footing Diagrams (In-Ground Model)

Installation Instructions



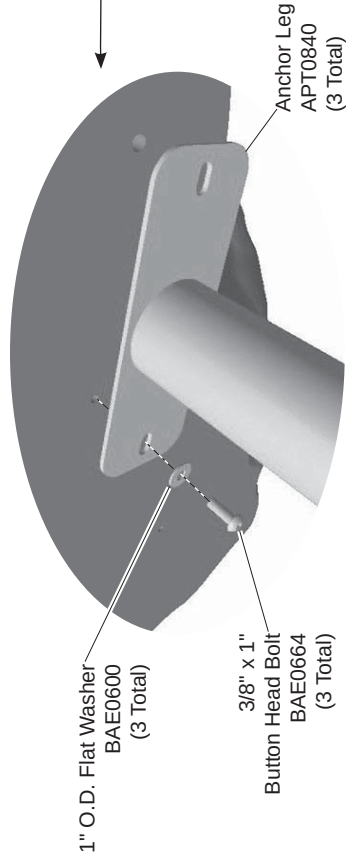
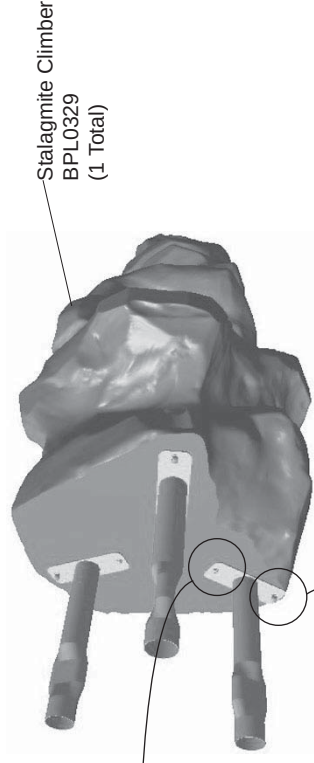
Note: Footings are wider than in ground models due to only the outside hole in the Stalagmite being used for mounting to the concrete.



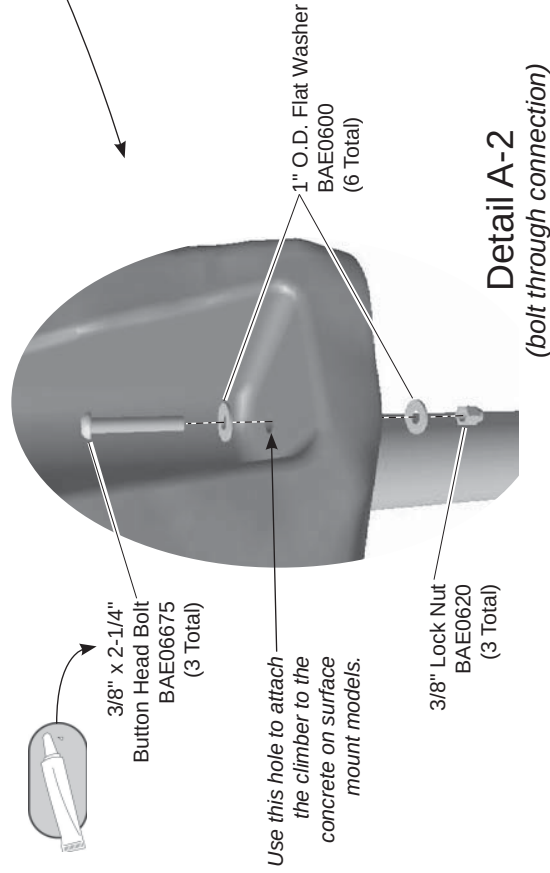
Footing Diagrams
(Surface Mount Model)

Installation Instructions

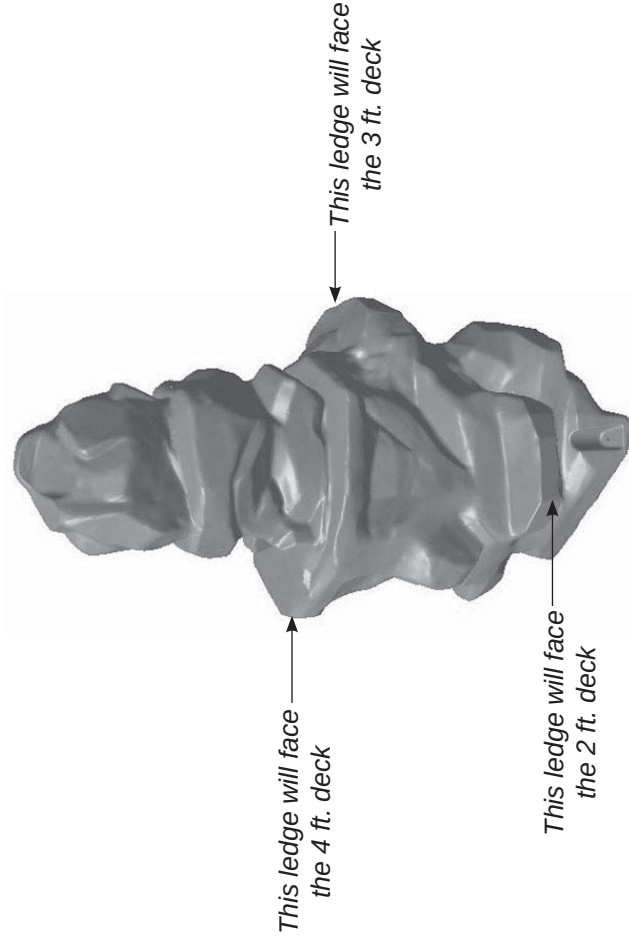
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A-1
(underneath connection)



Detail A-2
(bolt through connection)



**Stalagmite Climber Deck
Placement Reference**



Details A-1 and A-2

Step 4

Attach the anchor legs to the climber
(in-ground model only).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** in the Annex at the end of this document. Use the **Component Footing Detail** for the in-ground model. Reference the appropriate **Footing Diagram** for placement of the footings in conjunction with a deck.

Step 4: Attach the anchor legs to the climber (in-ground model only). See **Details A-1 and A-2**. Position the legs beneath the climber and attach as shown. Apply a drop of thread locking adhesive to the bolt threads for the underneath connections. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Final Details.

Step 5: Plumb and level the climber in, or on, it's footings. Ensure the climber is turned in the right direction for the height of the deck. See the **Stalagmite Climber**

Deck Placement Reference.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

UN8246 - ROCKBLOCKS STALAGMITE CLIMBER

PART NO.	DESCRIPTION	QTY.
PT0840	POST - 22.50" x 12.00" x 4.00"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	3
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	3
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN8246S - ROCKBLOCKS STALAGMITE CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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intentionally left blank.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

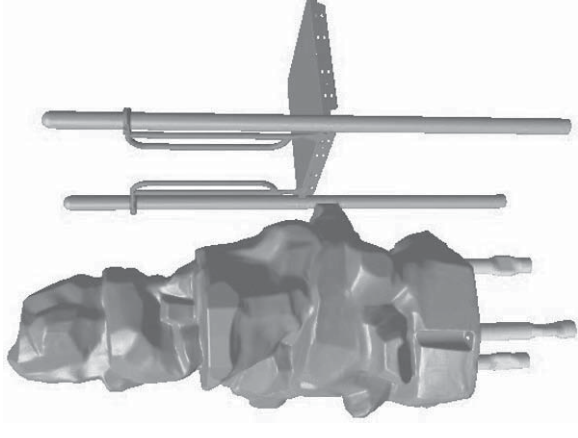
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Universal

Models UN8246 and UN8246S
RockBlocks Stalagmite Climber
for 2 ft. (610 mm), 3 ft. (914 mm) and
4 ft. (1219 mm) Decks

In-Ground and Surface Mount



RockBlocks™



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Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.

- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.

- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.

- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbercy. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

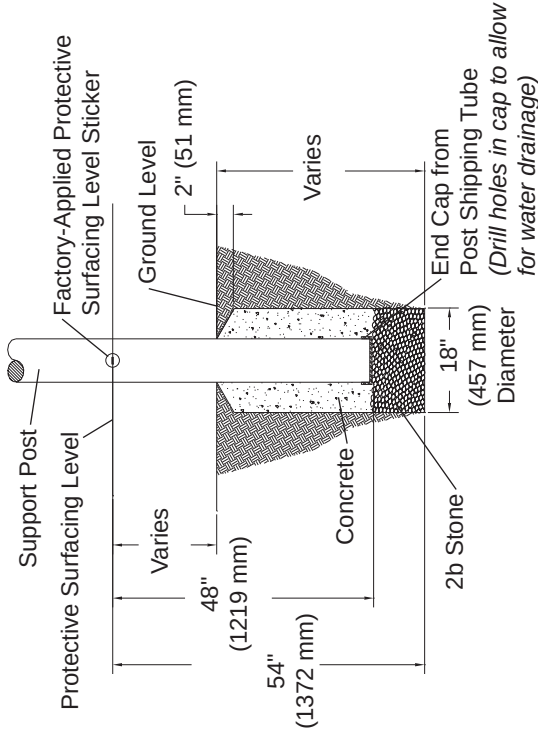
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

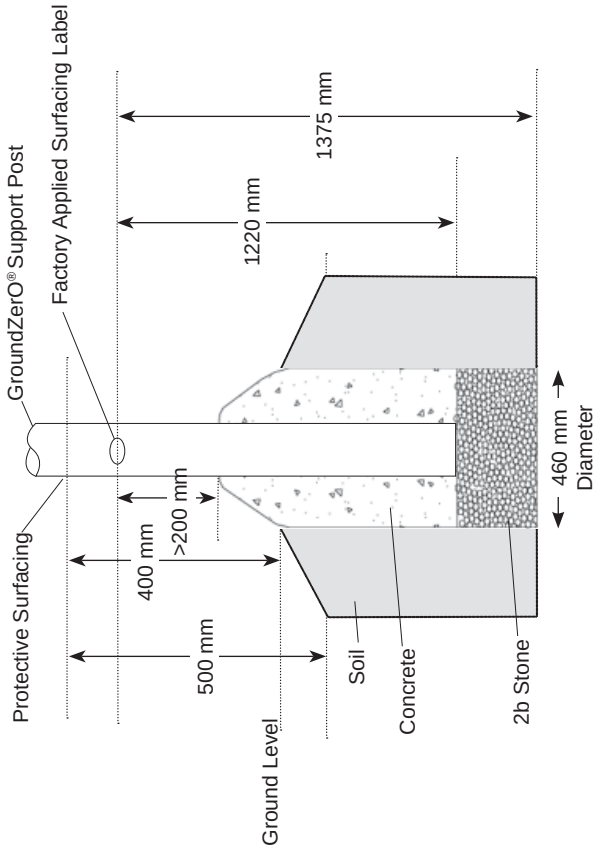
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Footings Notes & Details (in ground)



GroundZero® Support Post Footing Detail ASTM/CSA



Footing Detail - GroundZero® Support Post (EN)

Guidelines & Information (fs SPE_noslide)

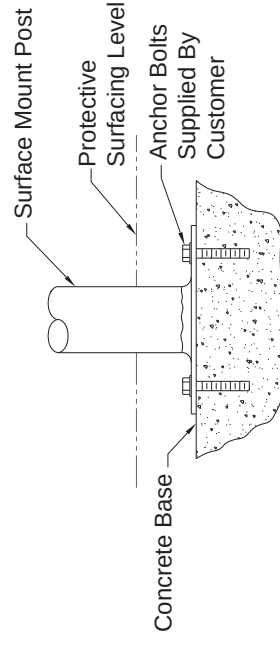
FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)

FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

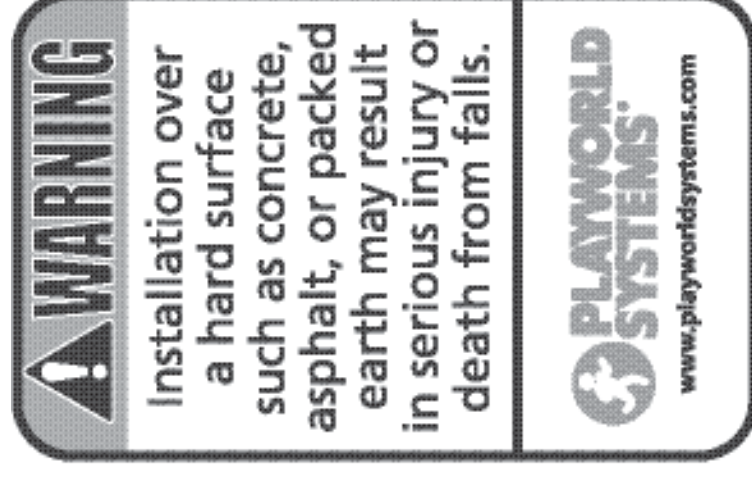


Surface Mount Footing Detail

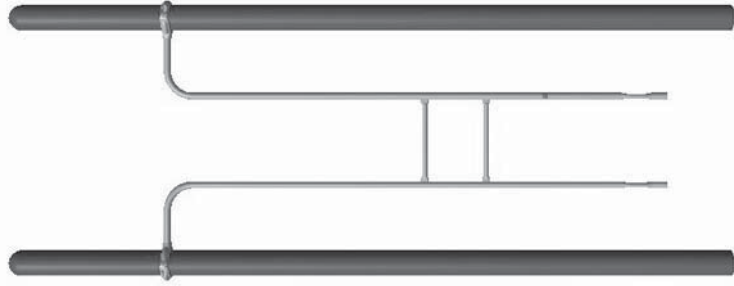
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View (representative model)

Model	Deck Height	Weight
ZZPM5950	12" (305 mm)	25 lbs. (11 kg)
ZZPM5960	24" (610 mm)	28 lbs. (13 kg)
ZZPM5970	36" (915 mm)	26.2 lbs. (11,8 kg)

Installation Instructions

Playmakers® Models PM5950, PM5960, and PM5970

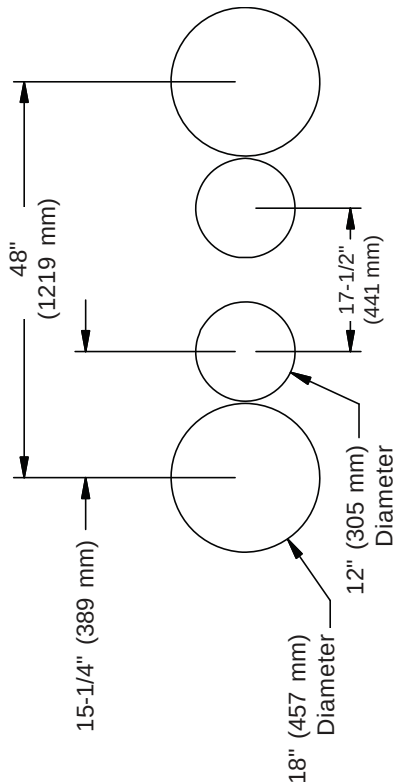
1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

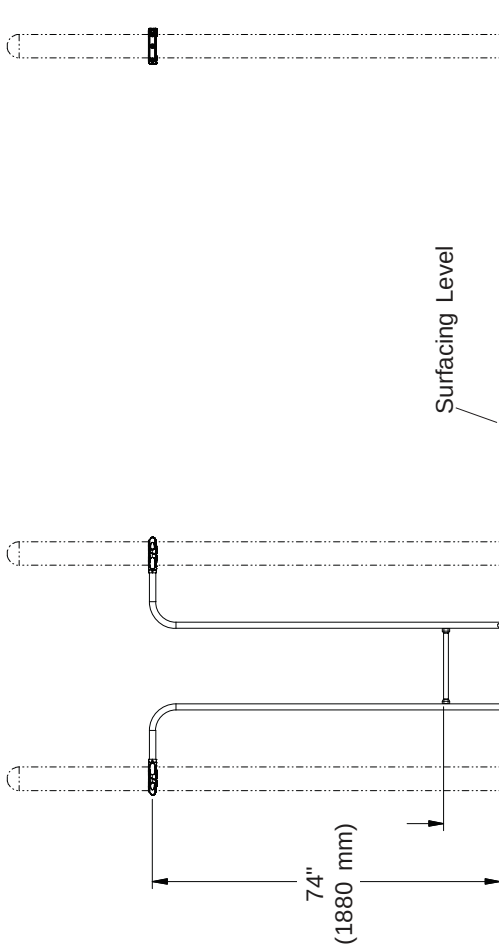
Recommended Crew: One (1) adult
 Installation Time: 1.5 installation-hours
 Weight: (refer to table)
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Footing Diagram
All Models



Elevation View



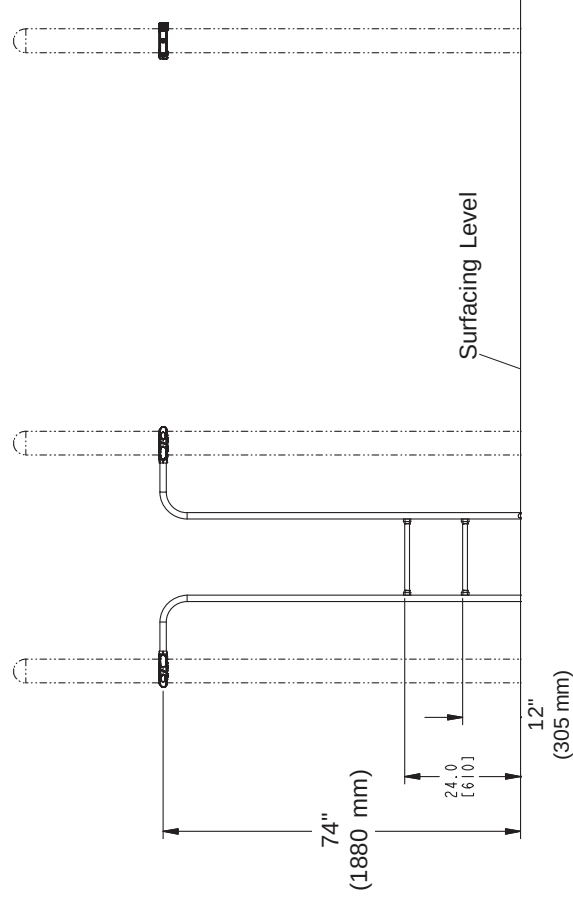
Elevation Views
PM5950

Installation Instructions

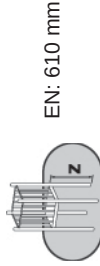
Top View



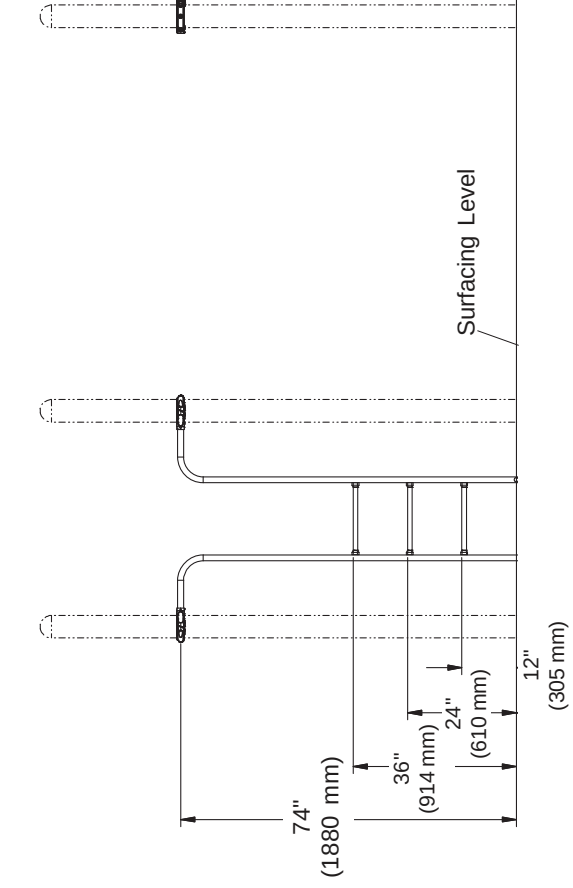
Top View



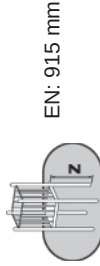
Elevation Views
PM5960



EN: 610 mm



Elevation Views
PM5970

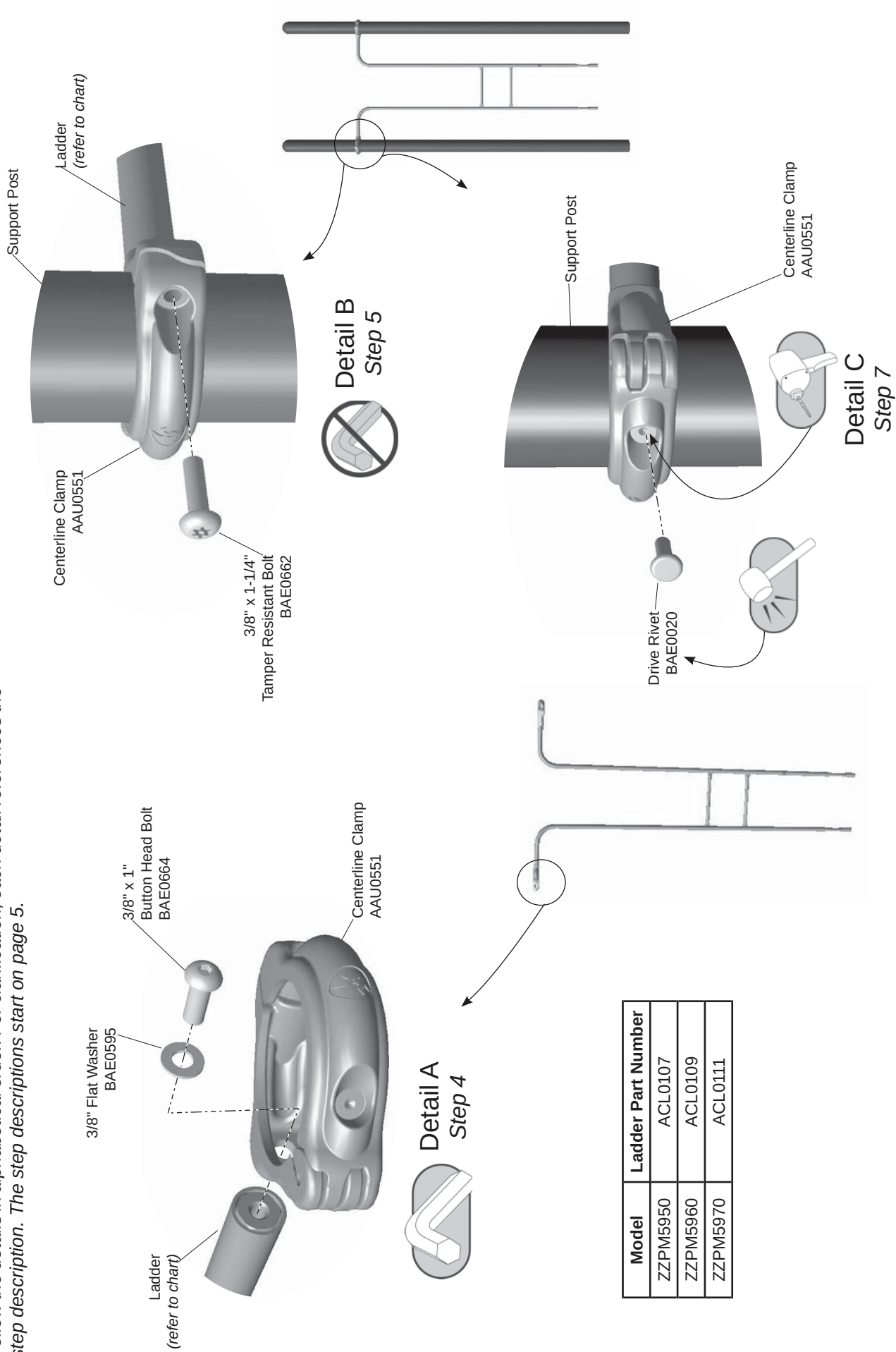


EN: 915 mm



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Ladder Part Number
ZZPM5950	ACL0107
ZZPM5960	ACL0109
ZZPM5970	ACL0111

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2



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⚠ WARNING

Attention Owner

The Horizontal and Wave Ladders are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Horizontal Ladder can result in serious accidents. The following rules for the use of the Horizontal Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Ladders are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the hand rung assembly.
- Users must move in same direction across the length of the top Horizontal Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.

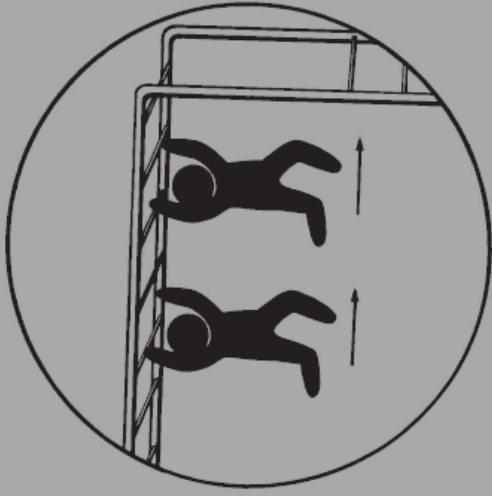
- Drop from hand rungs with knees slightly bent and land on both feet.

- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Ladder in accordance with ASTM specification F1292 appropriate for the fall height of the Horizontal Ladder.

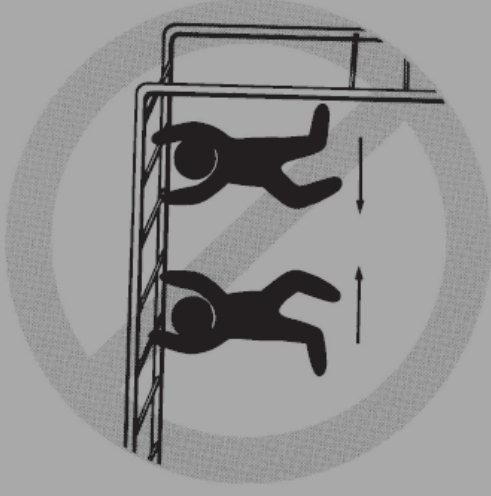
- Review and familiarize warning document supplied with each horizontal ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder

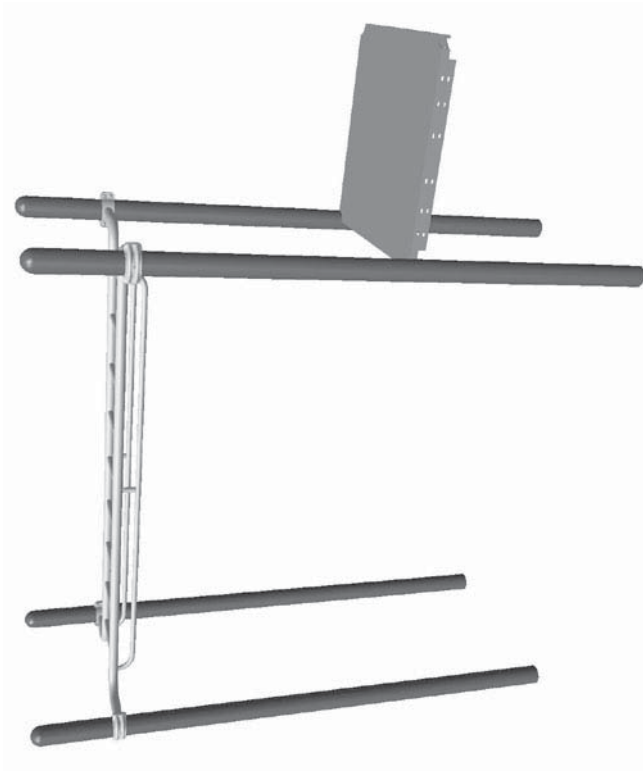


Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Installation Instructions Playmakers® Model PM6936 Horizontal Ladder with Parallel Bars

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 136.22 lbs. (61.9 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

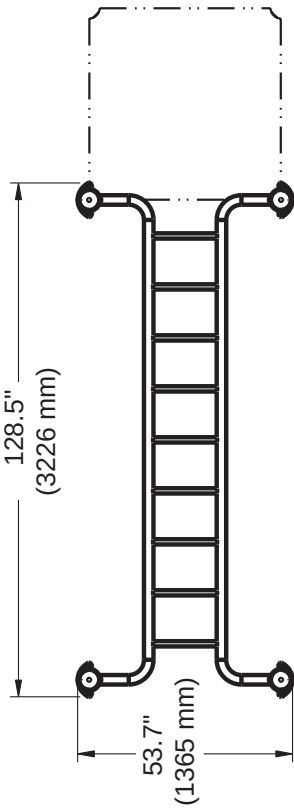


Assembly View

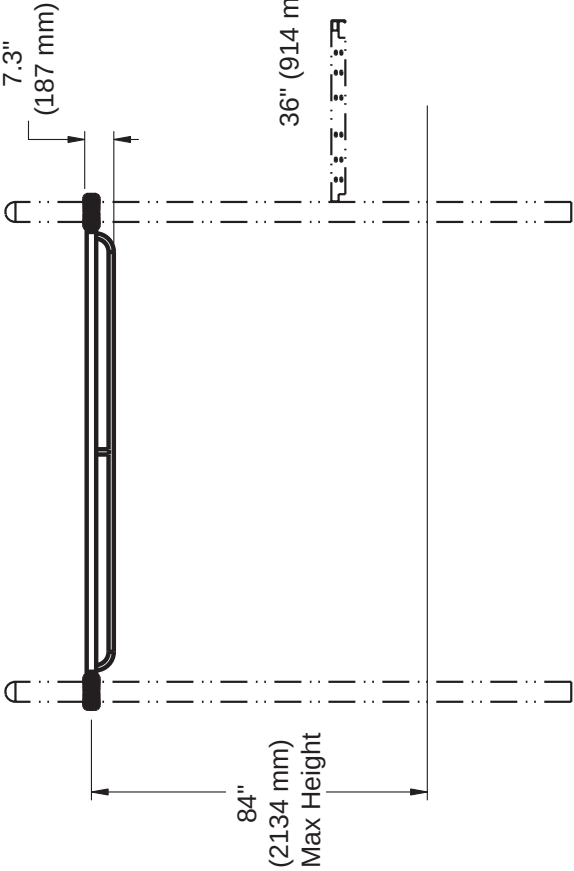
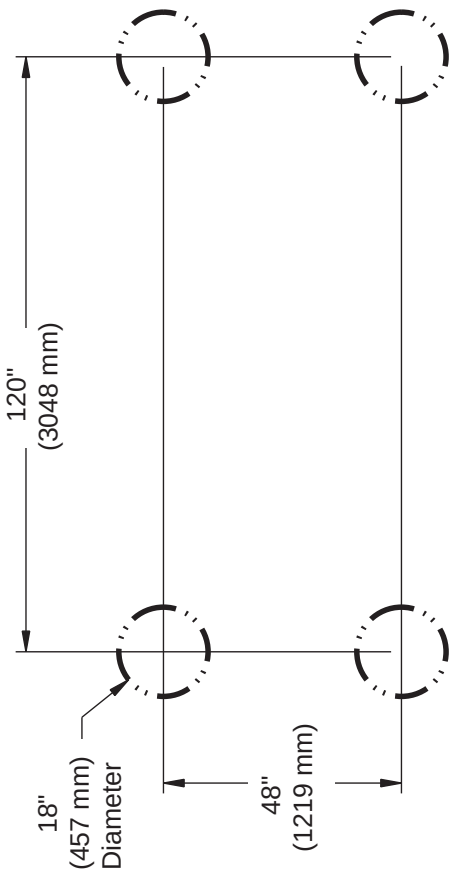
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

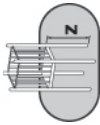
Top View



Footing Diagram



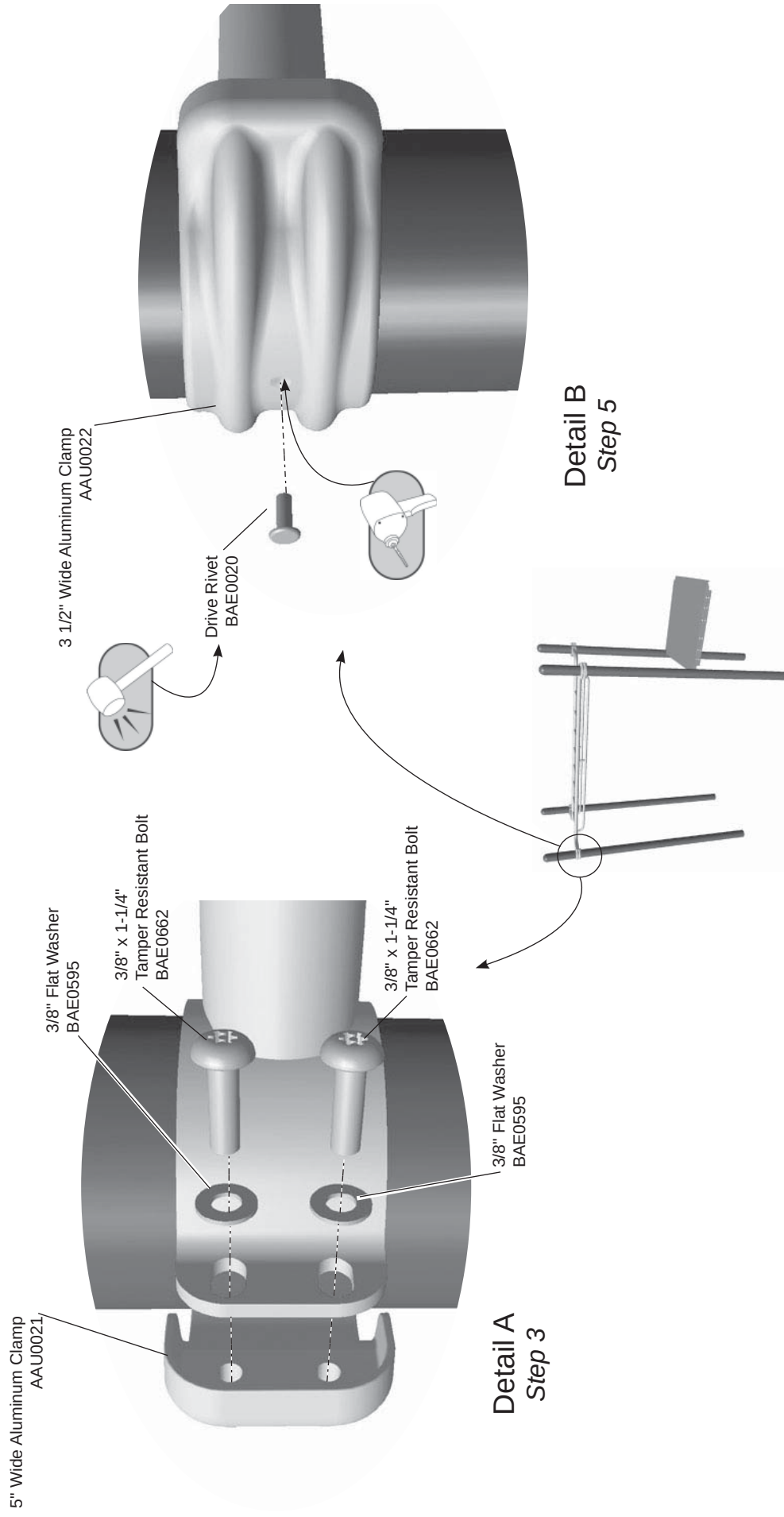
Elevation Views



EN: 2134 mm
Max Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Install Horizontal Ladder.

___ **Step 3:** Install Horizontal Ladder. See **Detail A**. Select the horizontal Ladder, (4) four clamps, and the appropriate hardware. There are (4) four connections per clamp, (16) sixteen total connections. Raise the horizontal ladder onto the support posts at the desired height. See **Elevation Views**. Align clamps with the ladder and attach as shown.

Final Details.

___ **Step 4:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 5:** Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

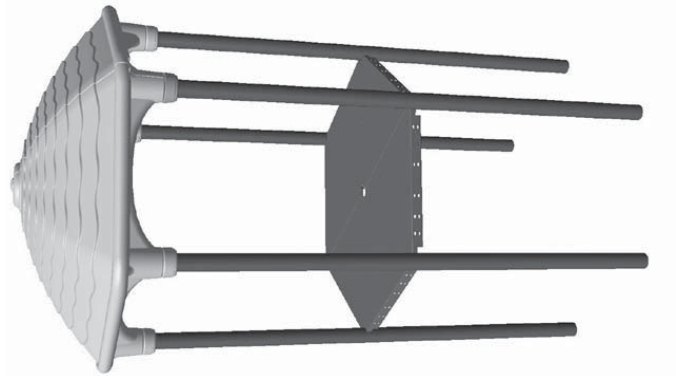
Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

ZZPM6936 - HORIZONTAL LADDER WITH PARALLEL BARS			
PART NO.	DESCRIPTION		QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM		4
AOH0030	LADDER - 120" HORIZONTAL LADDER w/RAILS (PM)		1
BAD0085	THREAD LOCKING ADHESIVE		1
BAE0020	RIVET - 1/4" x 11/16" DRIVE		4
BAE0595	WASHER - 3/8" SAE FLAT		16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTNT w/TORX DRIVE		16

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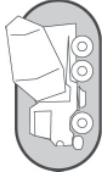
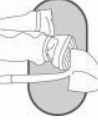
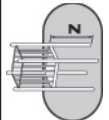
Installation Instructions Playmakers® Model PM9858 Hex Cabana Roof



Assembly View

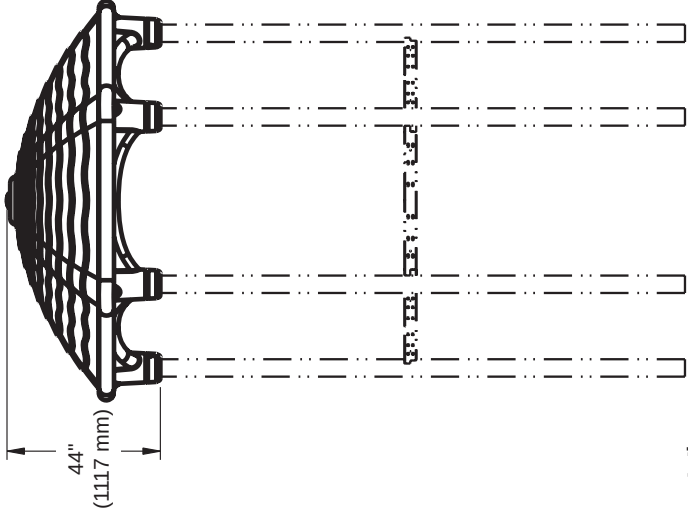
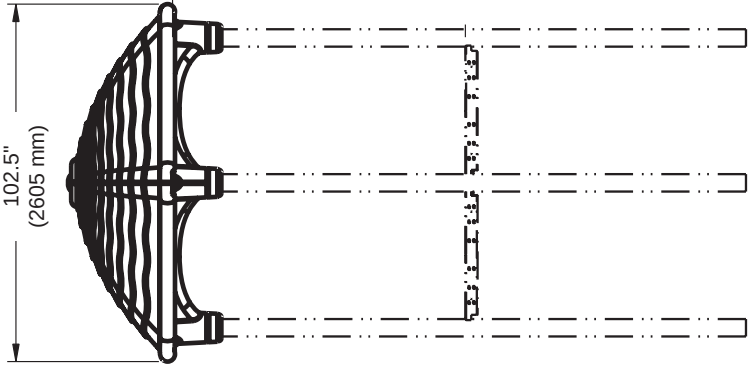
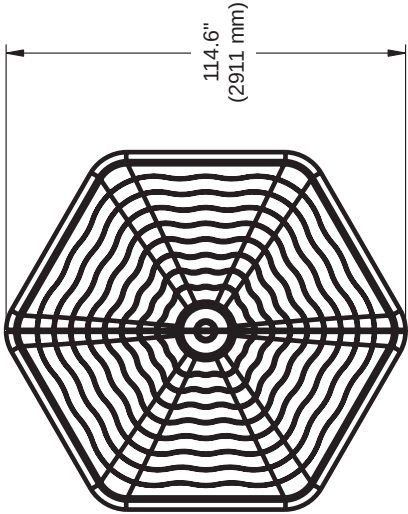
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 300.6 lbs. (136.2 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

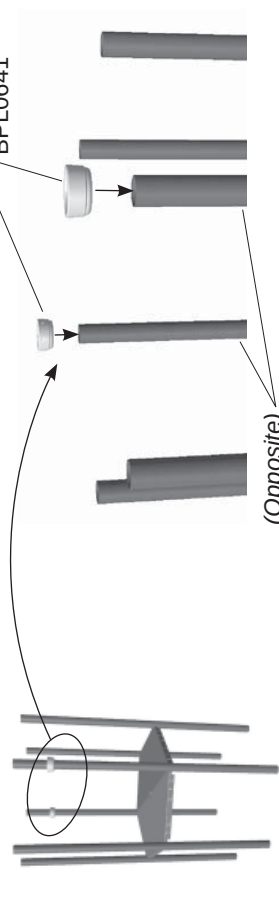


Elevation Views

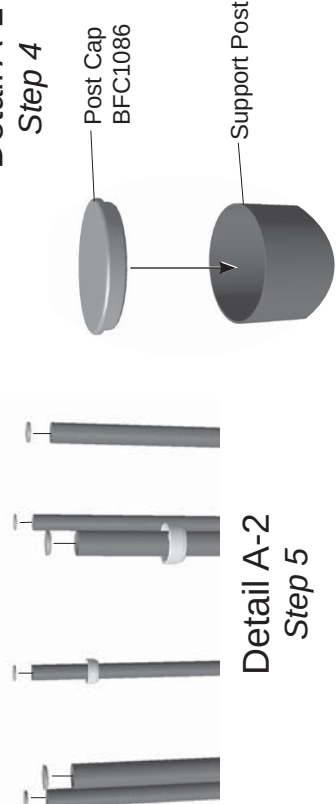


Installation Instructions

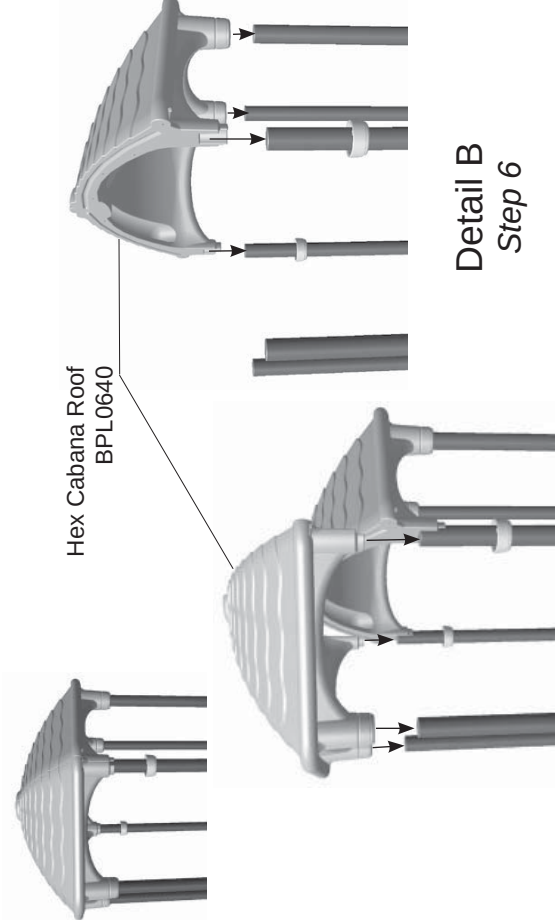
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



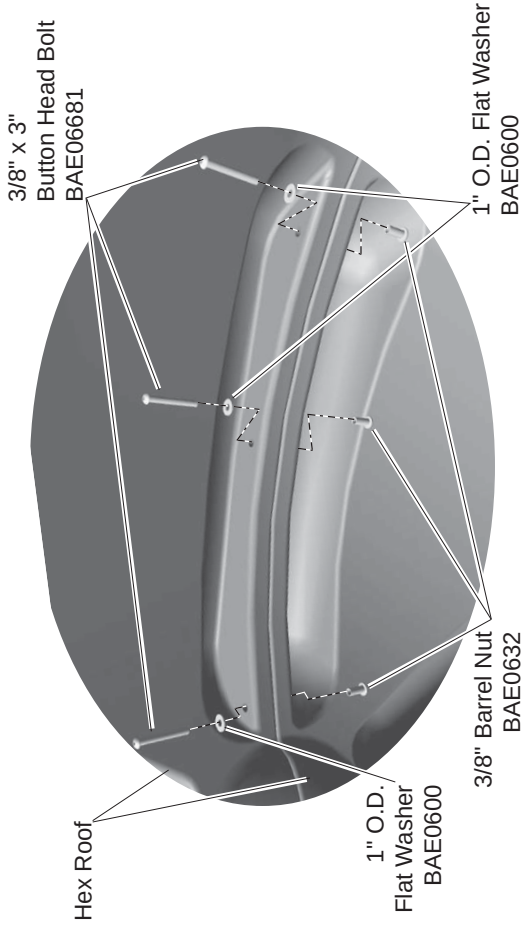
Detail A-1
Step 4



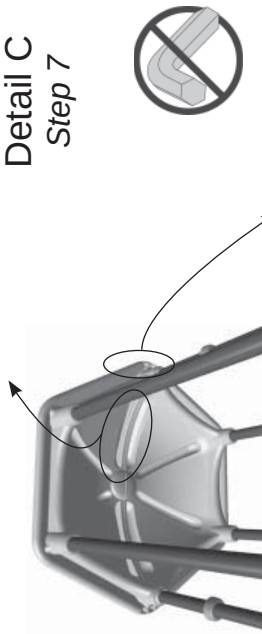
Detail A-2
Step 5



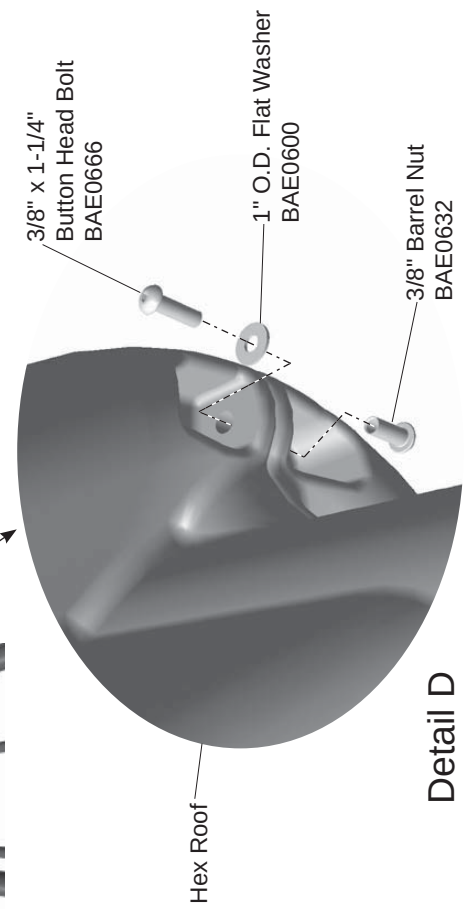
Detail B
Step 6



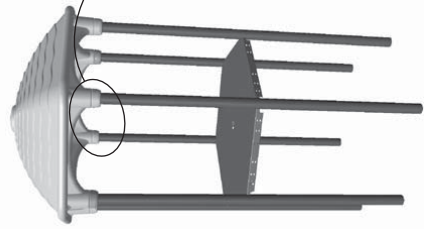
Detail C
Step 7



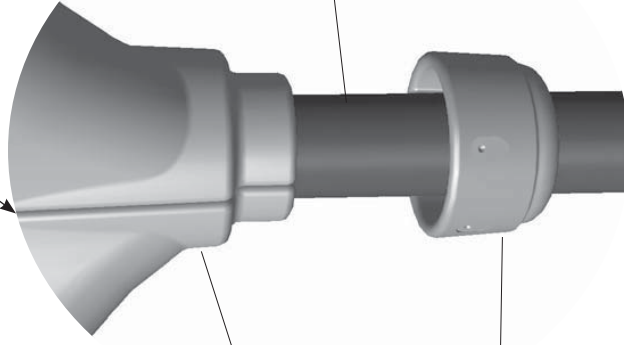
Detail D
Step 8



Installation Instructions



Connection Seam

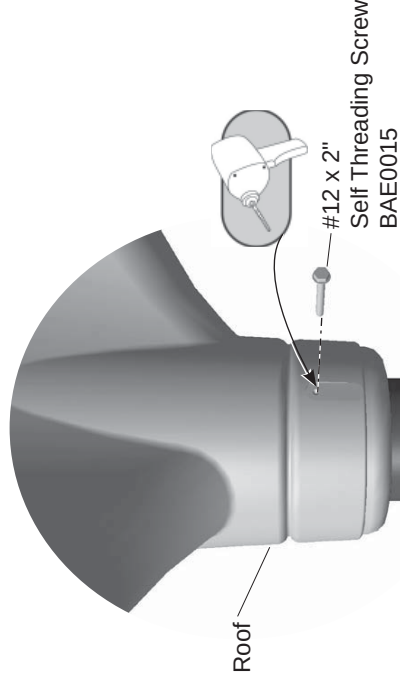


Roof

Post

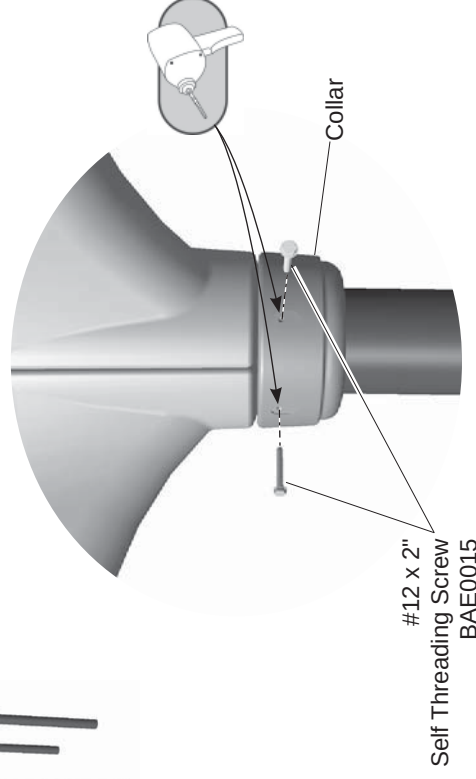
Collar

Detail E
Step 10



Roof

Detail F-1
Step 11



#12 x 2"
Self Threading Screw
BAE0015

Collar

Detail F-2
Step 11

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware. (A pair of C-clamps or locking clamps make installation easier)

___ **Step 3:** Level the supporting deck and plumb the support posts.

___ **Step 4:** Place the collars onto opposite support posts. See **Detail A**. Select both collars, and slide them over the opposite support posts. They will serve to help lock the halves together.

___ **Step 5:** Place the post caps into the top of each post. See **Detail A-2**. Select (6) six post caps. Place them in the top of each post as shown.

___ **Step 6:** Place the roof onto the support posts. See **Detail B**. Select both halves of the hex cabana roof. Place each half onto the support posts as shown. The connection seam should be over the posts with the collars. Fully seat the roof on the posts.

Hint: Clamp the outside ends to make the hardware connections easier.

___ **Step 7:** Bolt the roof halves together. See **Detail C**. Select the appropriate hardware. There are (6) six connections across the inside of the roof. Attach as shown.

___ **Step 8:** Bolt the outside edges of the roof. See **Detail D**. Select the appropriate hardware. Unclamp the halves and make the outside connections as shown.

Final Details.

___ **Step 9:** Level the roof. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 10:** Slide collars up over the mating roof pieces. See **Detail E**. Turn the collars so that the indentations (for the screws) are facing the center of the deck, for ease of attachment.

___ **Step 11:** Screw the collars and roof to the posts. See **Details F-1 and F-2**. Drill a pilot hole using a 1/8" drill bit at each of the indentations on the collars and roof stubs. There are (2) two locations on the collars and one each on the roof stubs. Attach as shown. Fully tighten the screws.

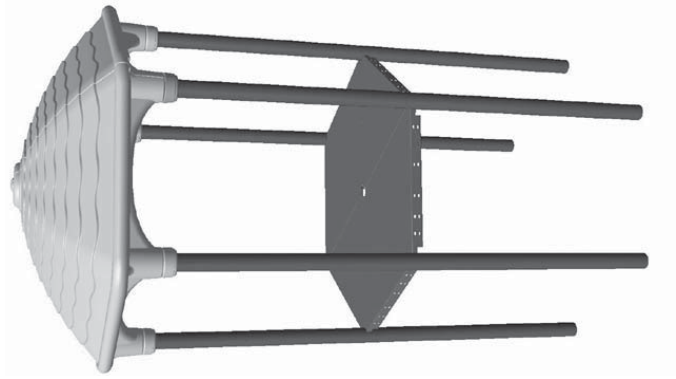
PM9858 - HEX CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 2"	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1086	SHEET-5.00" x .75" PIPE PLUG	6
BPL0640	ROOF - PM HEX CABANA	2
BPL0641	PM CABANA RING	2

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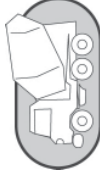
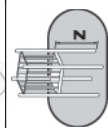
Installation Instructions Playmakers® Model PM9858 Hex Cabana Roof



Assembly View

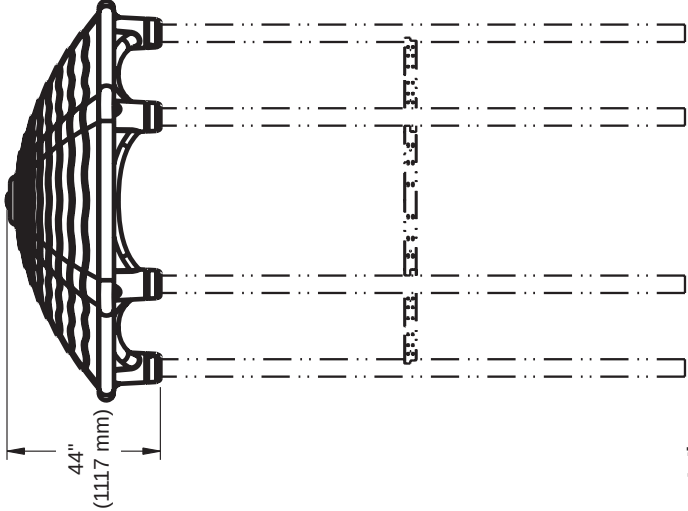
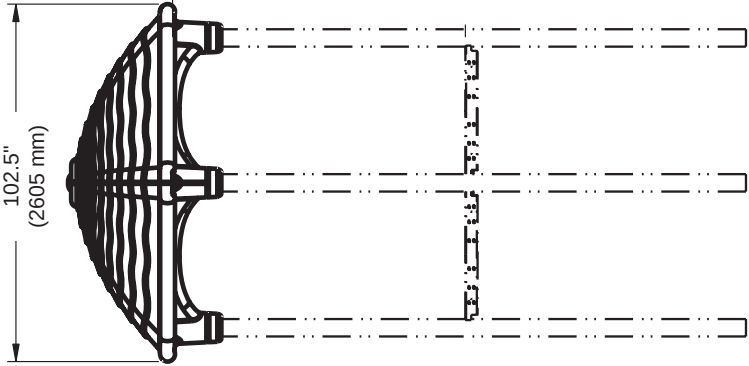
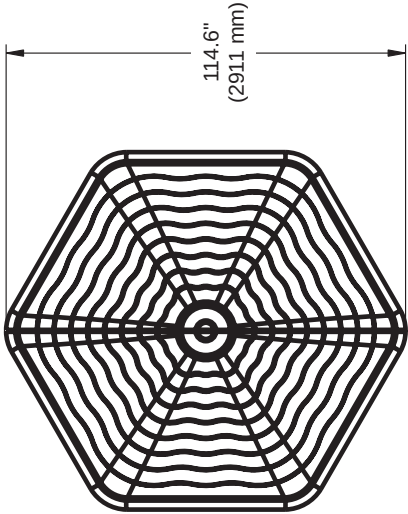
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 300.6 lbs. (136.2 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

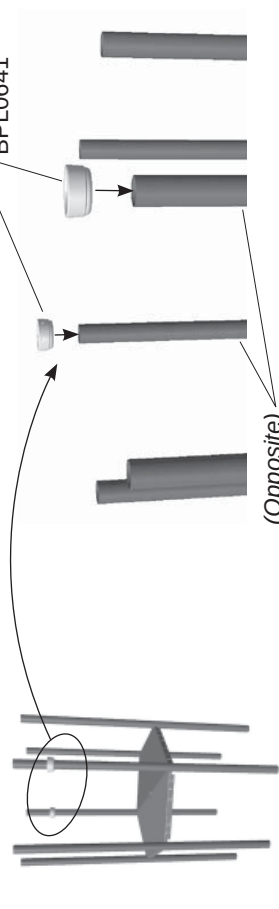


Elevation Views

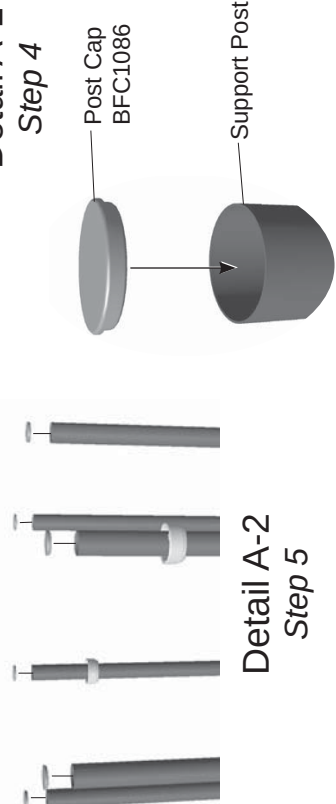


Installation Instructions

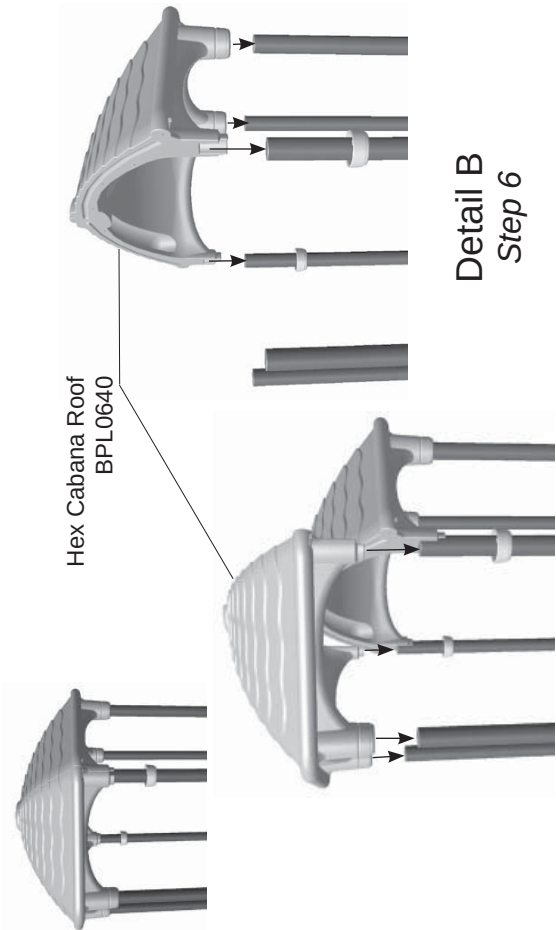
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



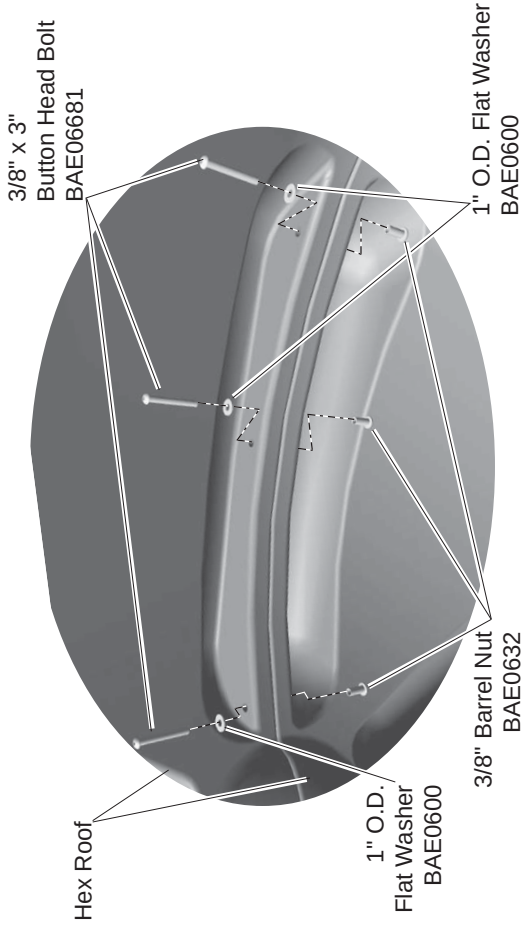
Detail A-1
Step 4



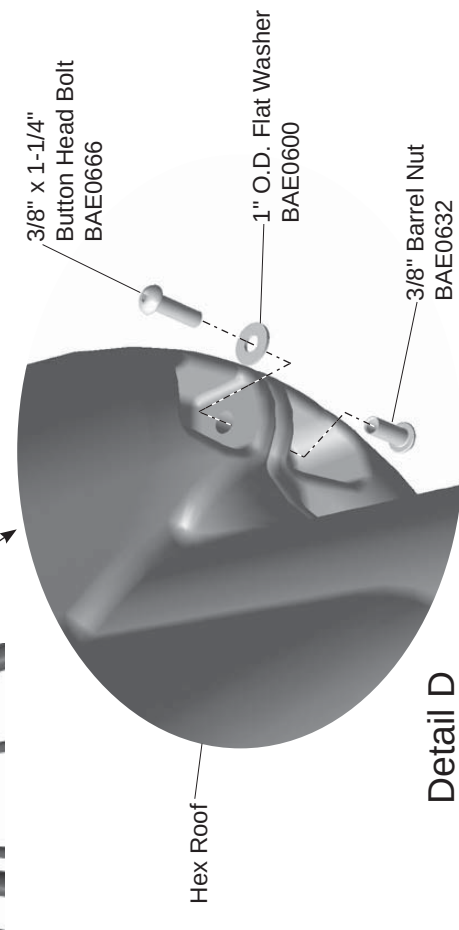
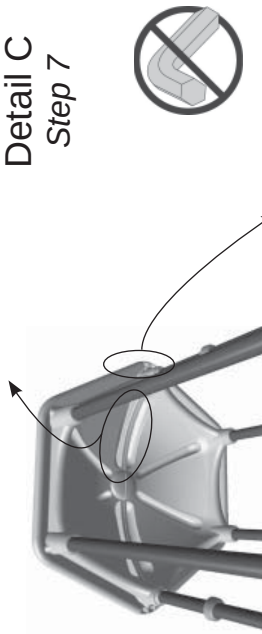
Detail A-2
Step 5



Detail B
Step 6



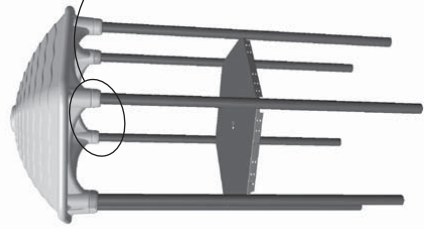
Detail C
Step 7



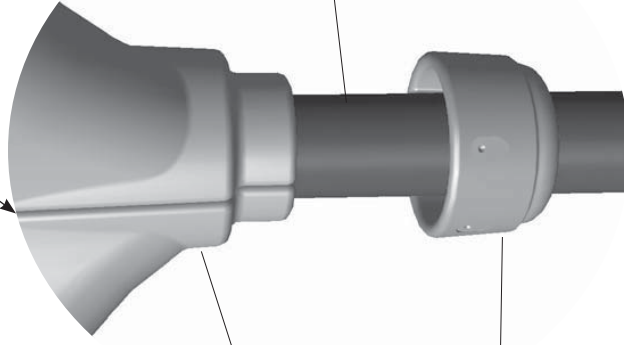
Detail D
Step 8



Installation Instructions



Connection Seam

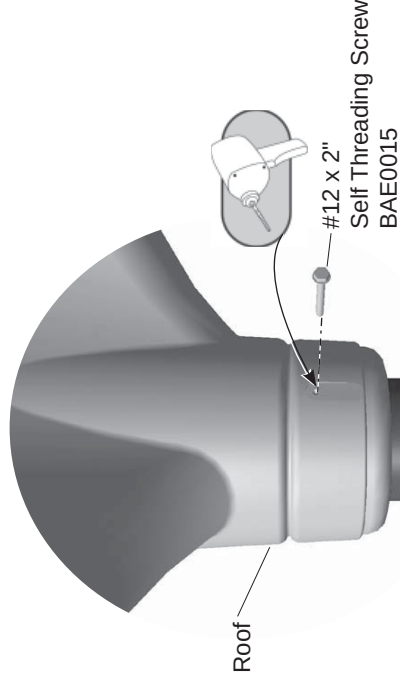


Roof

Post

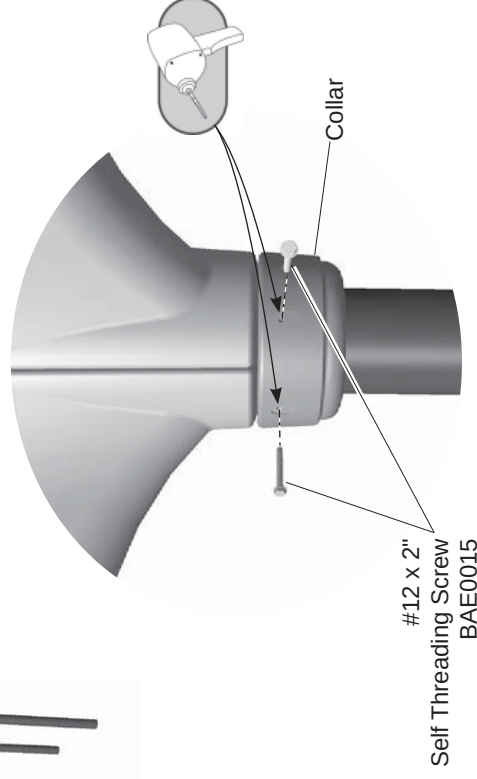
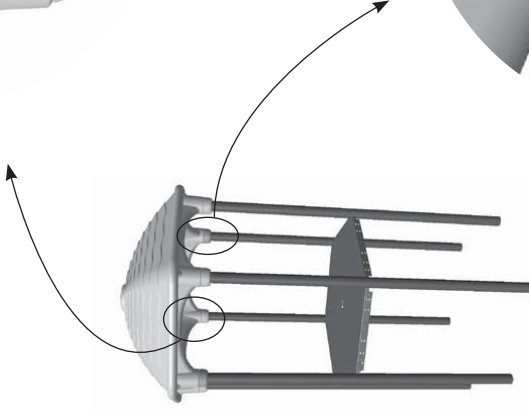
Collar

Detail E
Step 10



Roof

Detail F-1
Step 11



#12 x 2"
Self Threading Screw
BAE0015

Collar

Detail F-2
Step 11

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

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___ **Step 2:** Separate and identify all components and hardware. (A pair of C-clamps or locking clamps make installation easier)

___ **Step 3:** Level the supporting deck and plumb the support posts.

___ **Step 4:** Place the collars onto opposite support posts. See **Detail A**. Select both collars, and slide them over the opposite support posts. They will serve to help lock the halves together.

___ **Step 5:** Place the post caps into the top of each post. See **Detail A-2**. Select (6) six post caps. Place them in the top of each post as shown.

___ **Step 6:** Place the roof onto the support posts. See **Detail B**. Select both halves of the hex cabana roof. Place each half onto the support posts as shown. The connection seam should be over the posts with the collars. Fully seat the roof on the posts.

Hint: Clamp the outside ends to make the hardware connections easier.

___ **Step 7:** Bolt the roof halves together. See **Detail C**. Select the appropriate hardware. There are (6) six connections across the inside of the roof. Attach as shown.

___ **Step 8:** Bolt the outside edges of the roof. See **Detail D**. Select the appropriate hardware. Unclamp the halves and make the outside connections as shown.

Final Details.

___ **Step 9:** Level the roof. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 10:** Slide collars up over the mating roof pieces. See **Detail E**. Turn the collars so that the indentations (for the screws) are facing the center of the deck, for ease of attachment.

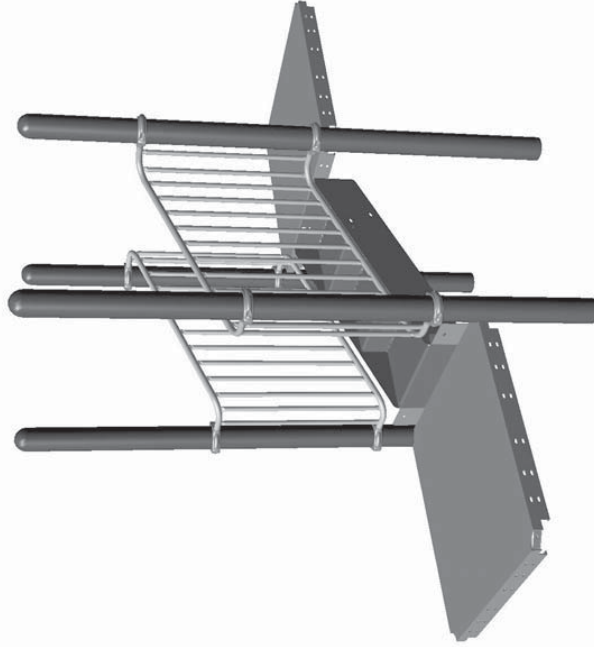
___ **Step 11:** Screw the collars and roof to the posts. See **Details F-1 and F-2**. Drill a pilot hole using a 1/8" drill bit at each of the indentations on the collars and roof stubs. There are (2) two locations on the collars and one each on the roof stubs. Attach as shown. Fully tighten the screws.

PM9858 - HEX CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 2"	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1086	SHEET-5.00" x .75" PIPE PLUG	6
BPL0640	ROOF - PM HEX CABANA	2
BPL0641	PM CABANA RING	2

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Assembly View (24" (610 mm) shown)

Model	Rise Height	Weight
ZZPM9168	12" (305 mm)	106 lbs. (48.2 kg)
ZZPM9170	24" (610 mm)	228 lbs. (103.6 kg)
ZZPM9177	36" (915 mm)	338 lbs. (153.6 kg)

Installation Instructions

Playmakers® Models PM9168, 9170, 9177

Deck to Deck Accessible Tiered Platforms

12", 24", 36" (305, 610, 914 mm) Rise Height

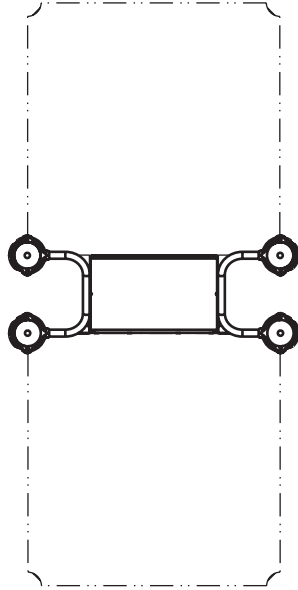
Installation Preparation

Recommended Crew: Two - Three (2-3) adults
 Installation Time: 2 man-hours
 Weight: refer to table
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

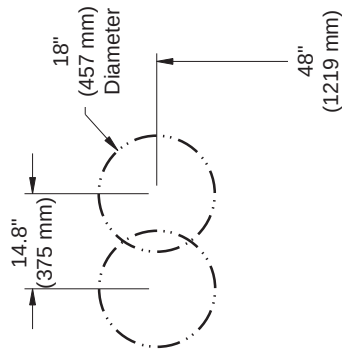
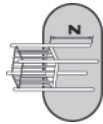
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Hammer
	Drill		Critical Fall Height

Installation Instructions

Top View



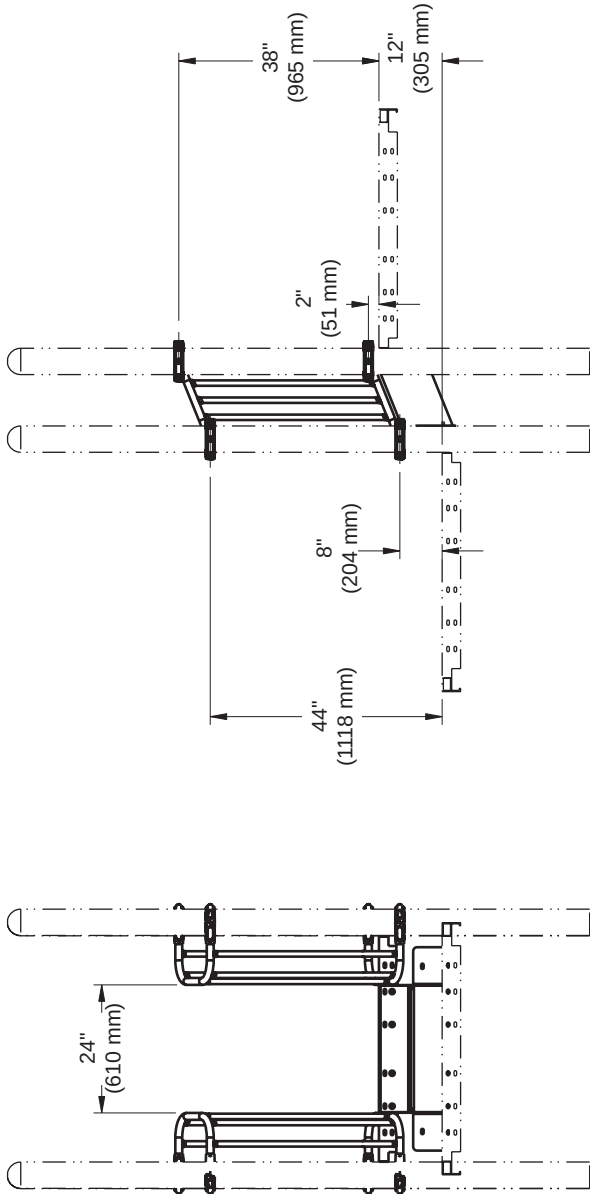
EN: Upper deck height



48" (1219 mm)

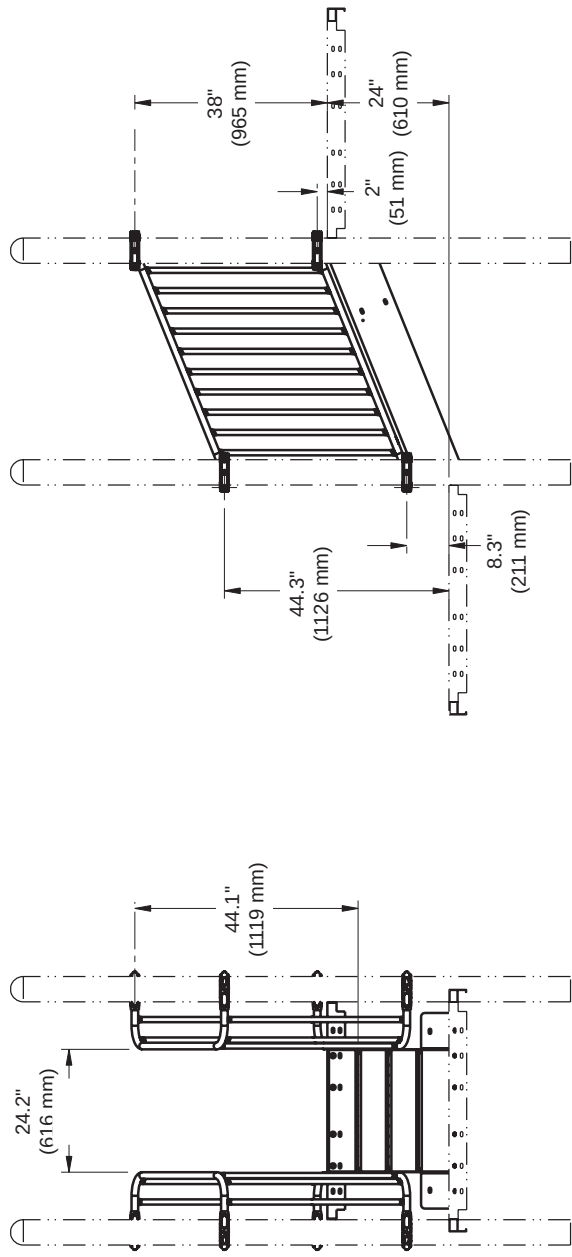
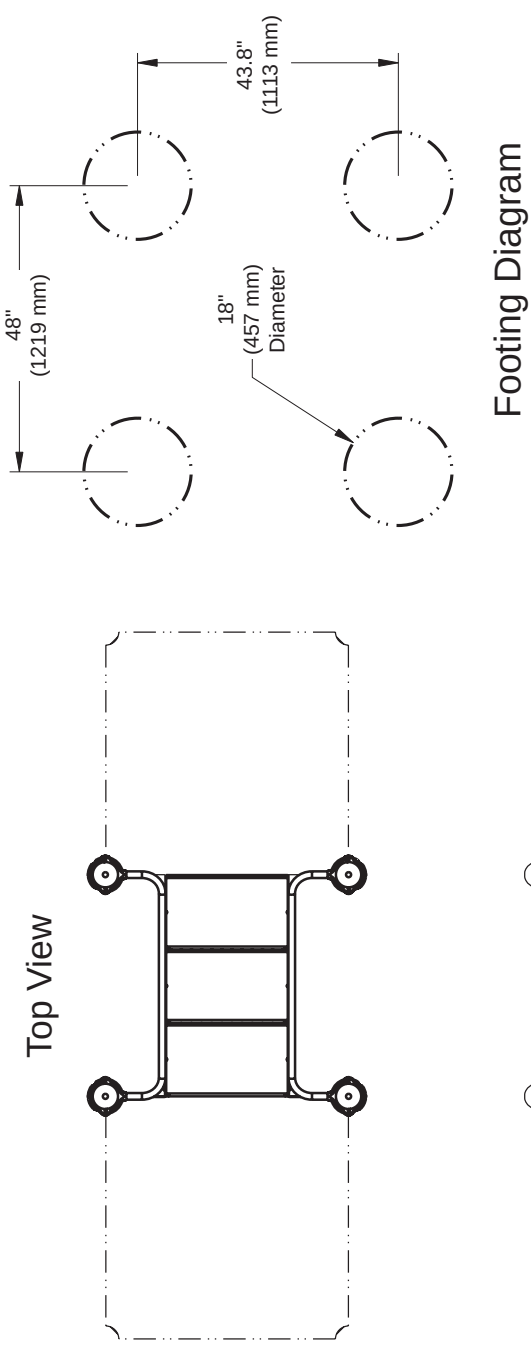


Footing Diagram



Elevation Views (12" (305 mm) rise)

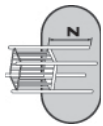
Installation Instructions



Elevation Views (24" (610 mm) rise)

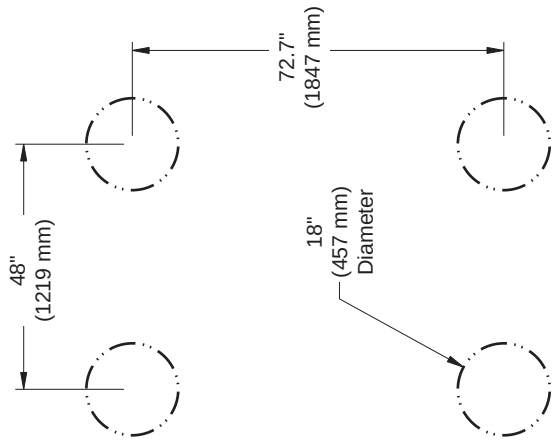
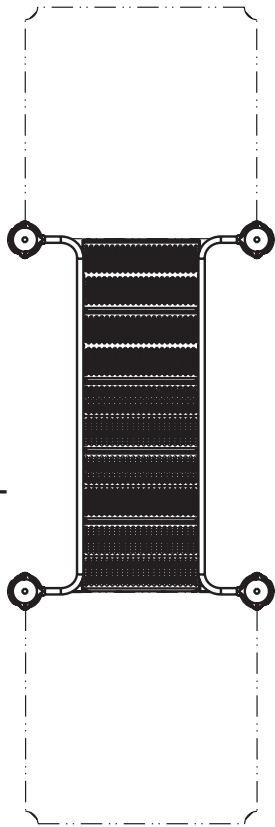


Installation Instructions

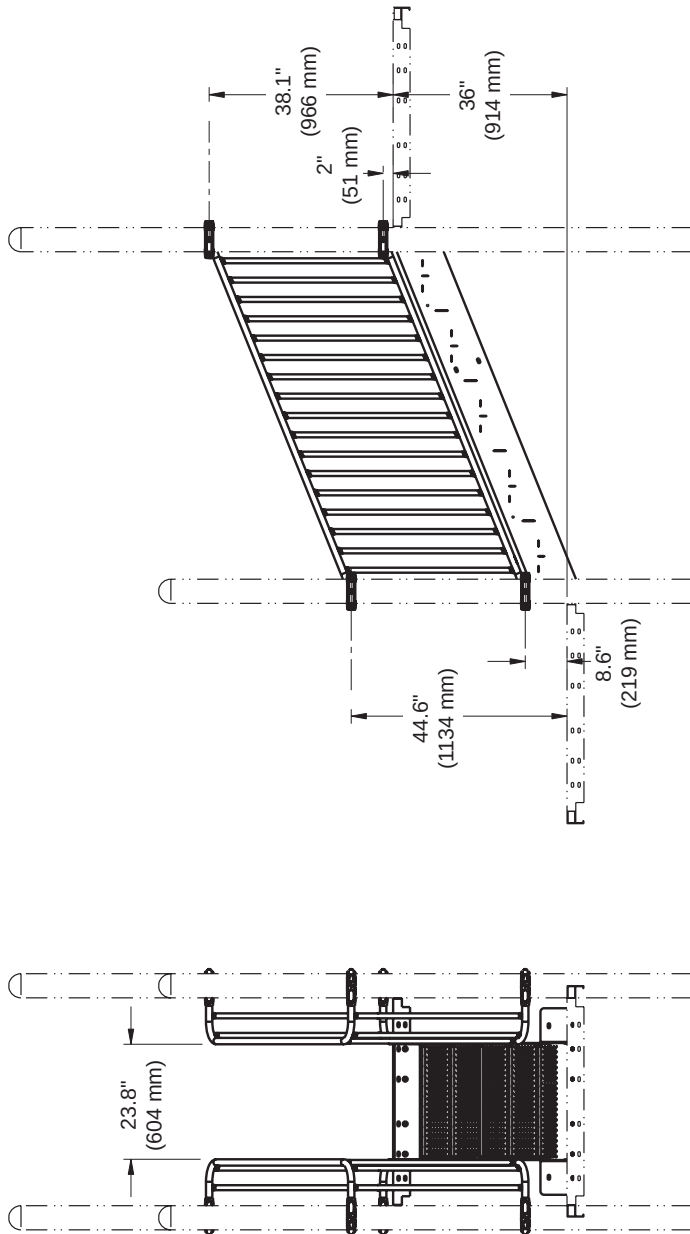


EN: Upper deck height

Top View



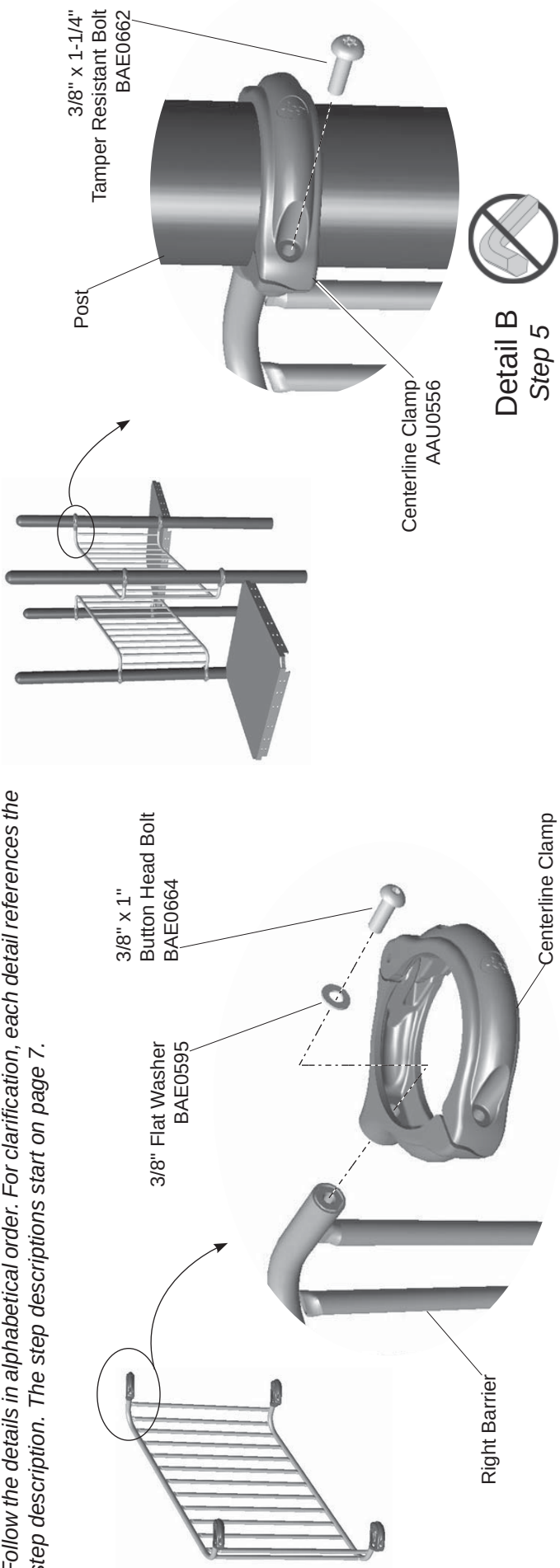
Footing Diagram



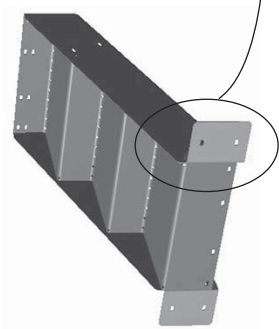
Elevation Views (36" (914 mm) rise)

Installation Instructions

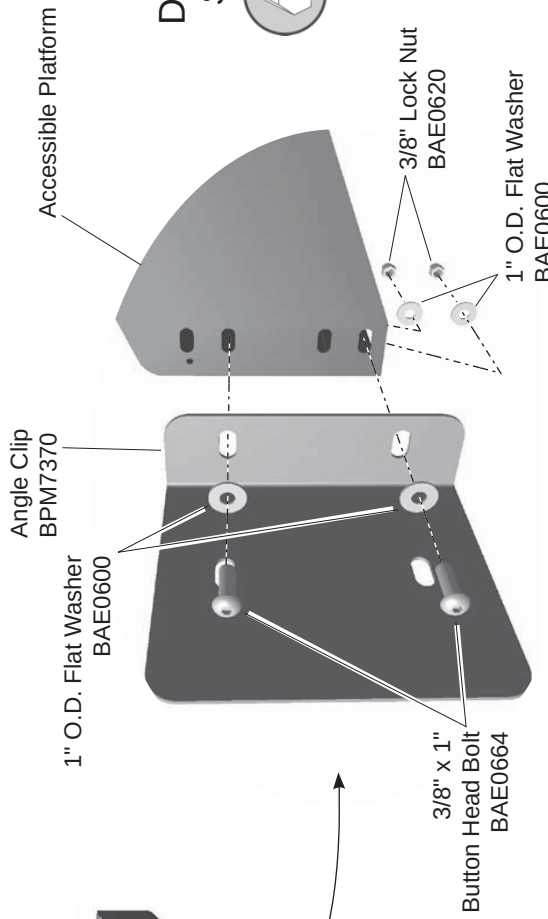
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4



The front of angle clip should be even with the face of the platform

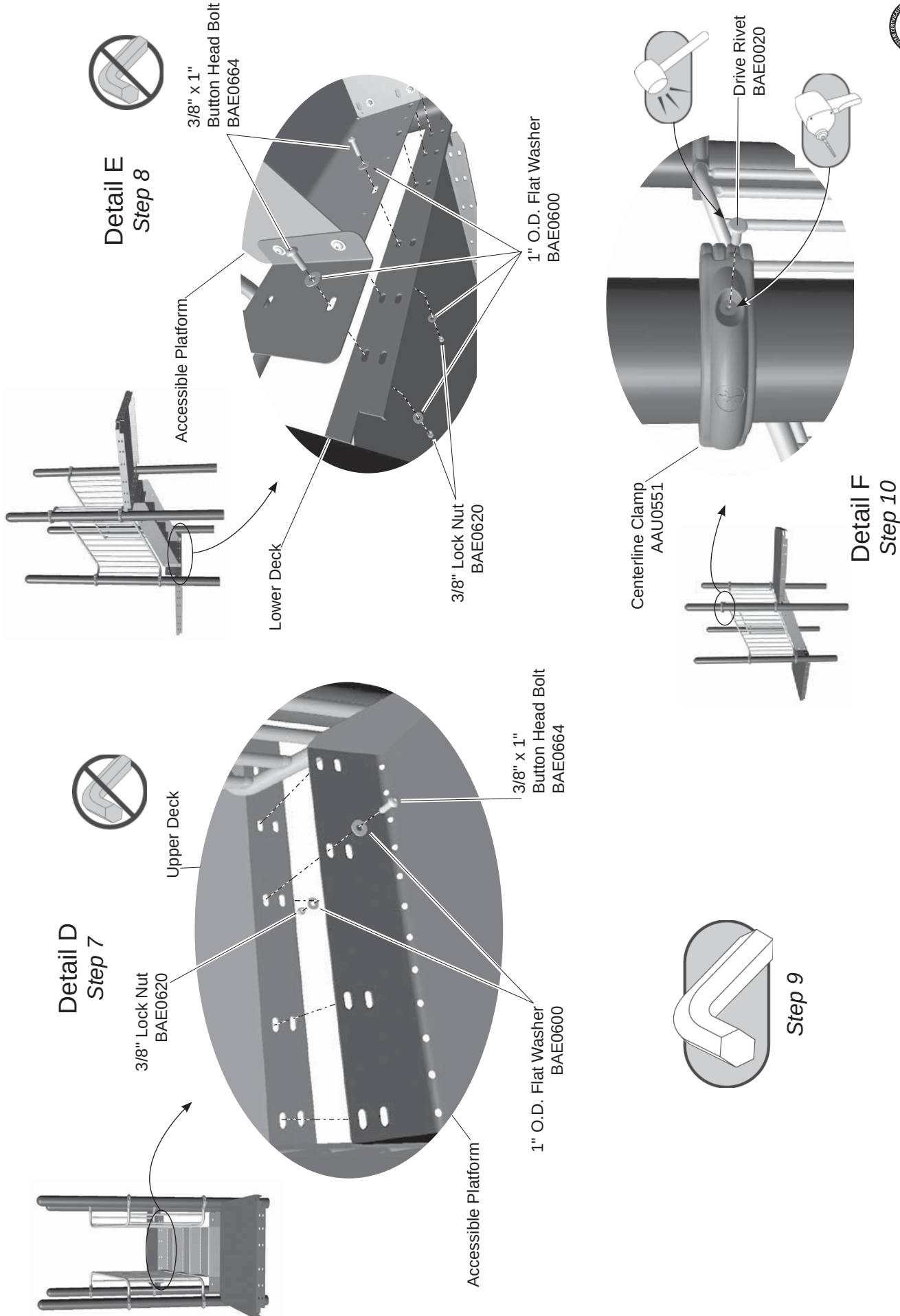


Detail C
Step 6

Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM7305
ZZPM9170	AEN0489 / AEN0490	BPM7315
ZZPM9177	AEN0491 / AEN0492	BPM7325



Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Determine location of the platform by referring to the master layout drawing.

___ **Step 4:** Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

___ **Step 5:** Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

___ **Step 6:** Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

___ **Step 7:** Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

___ **Step 8:** Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

___ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

___ **Step 10:** Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7305	STAIR - 12" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7325	STAIR - 36" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7315	STAIR - 24" ACCESS COATED PERF w/SM HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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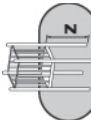
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

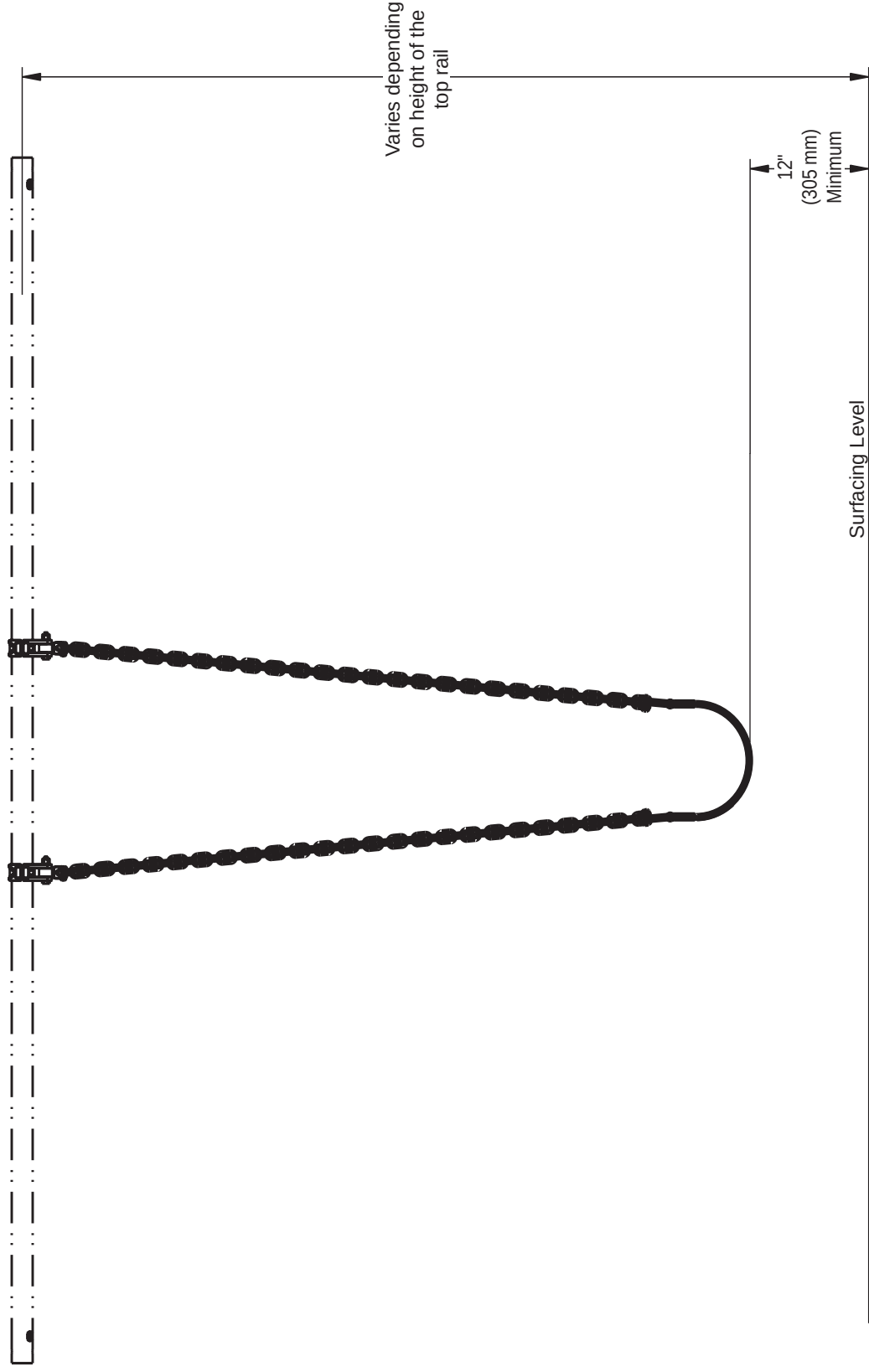
Installation Instructions Playworld Systems® Models XX0260, XX0261, & XX0324 Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

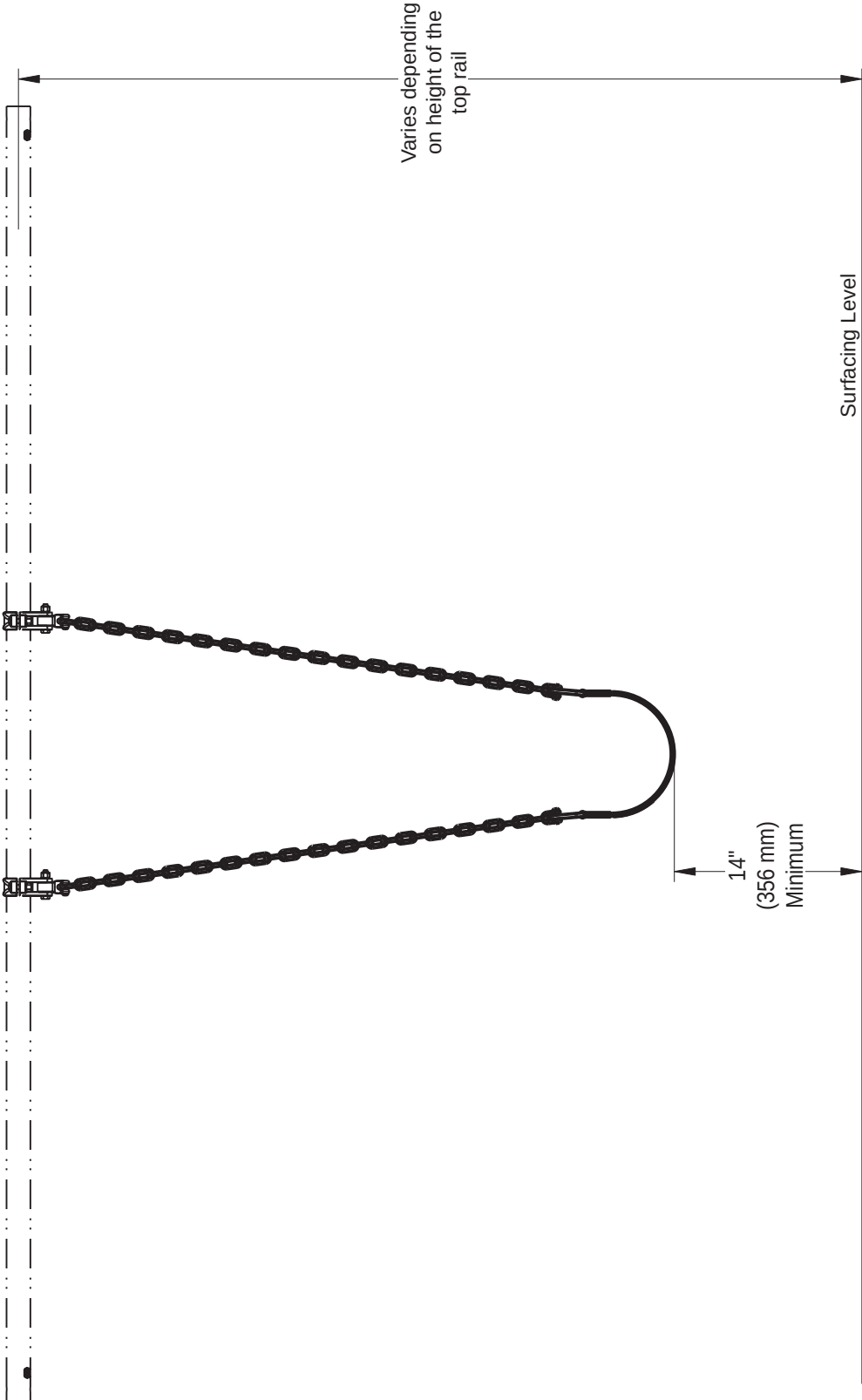


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions

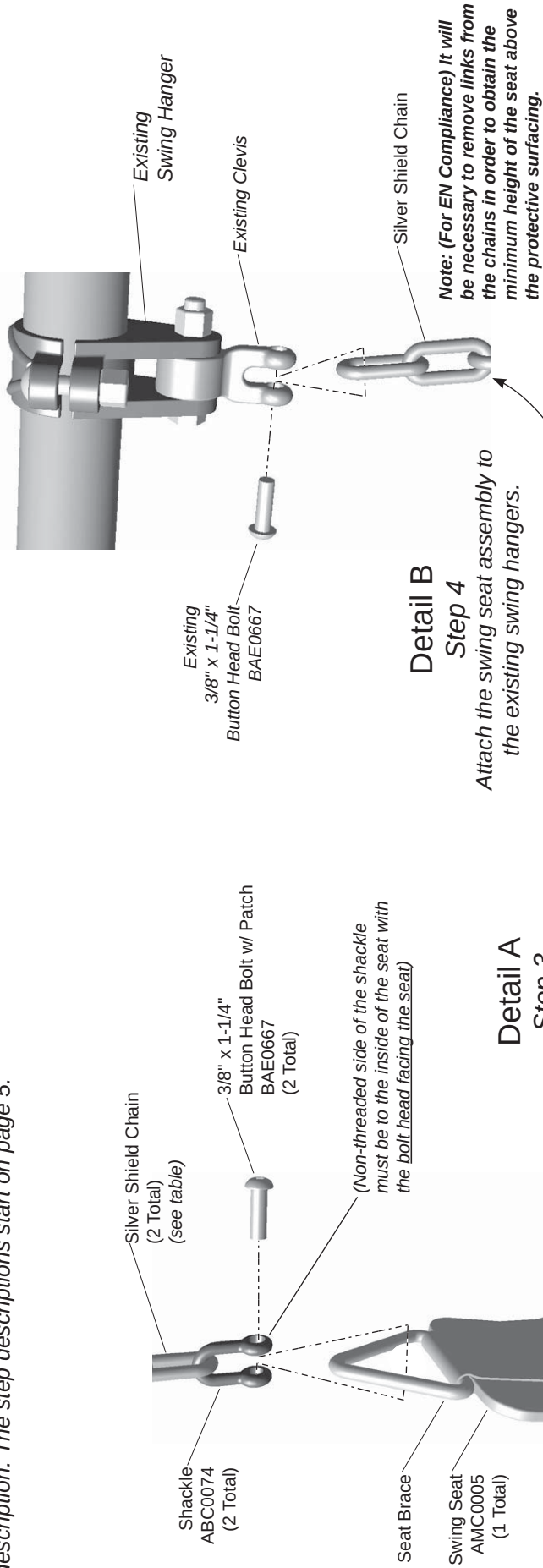


Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B Step 4

Attach the swing seat assembly to the existing swing hangers.

Detail A Step 3

Attach the swing seat to the swing chains.

Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

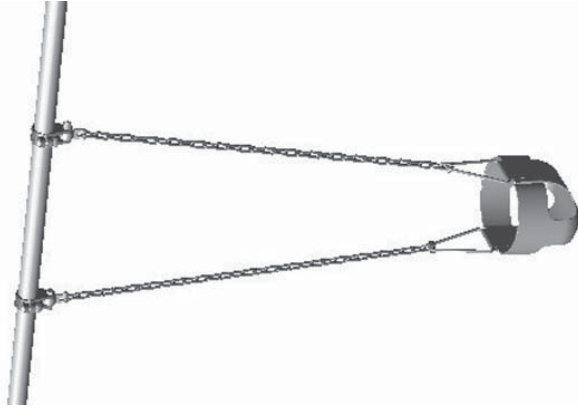
Date: ____ / ____ / ____





PLAYWORLD SYSTEMS®

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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

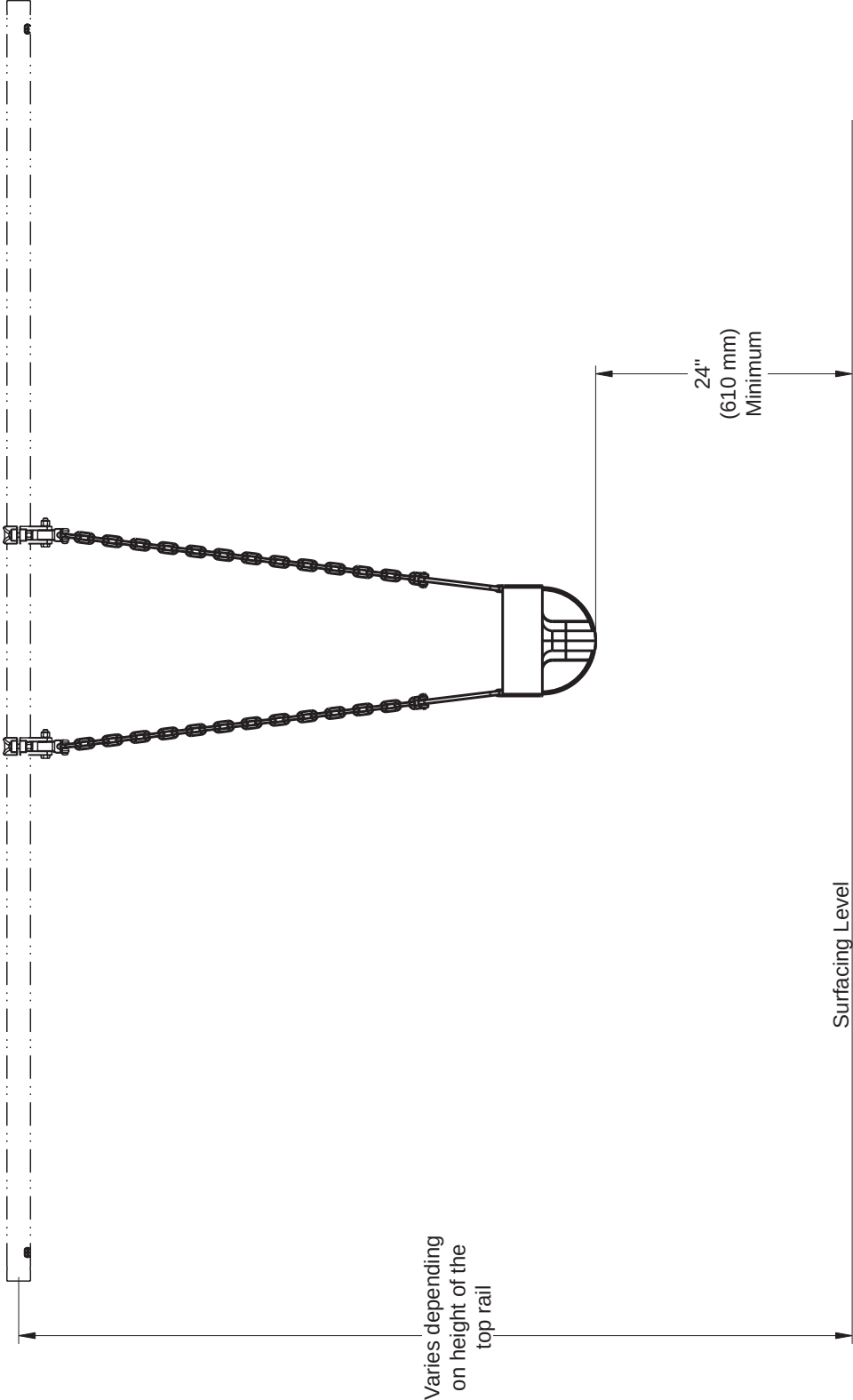
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions



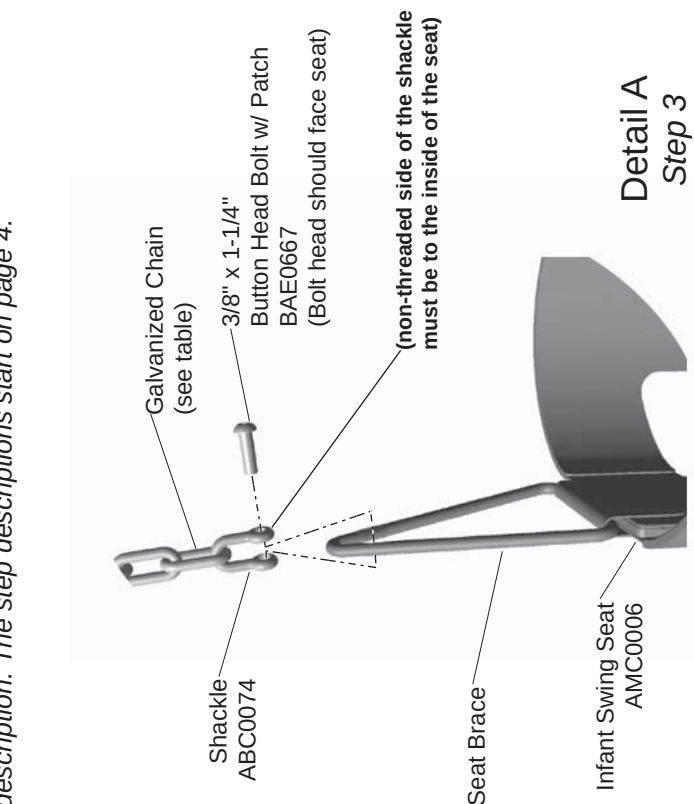
Elevation View

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

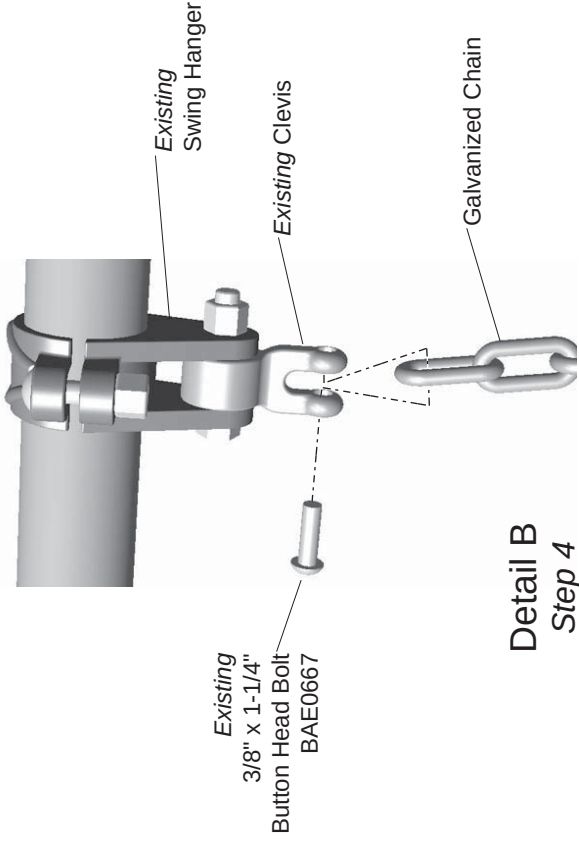


Installation Instructions

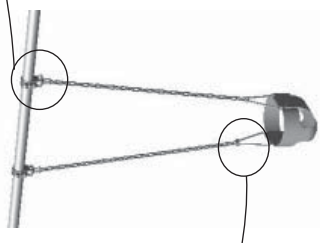
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 3



Detail B
Step 4



Reference A/B



Step 5

Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

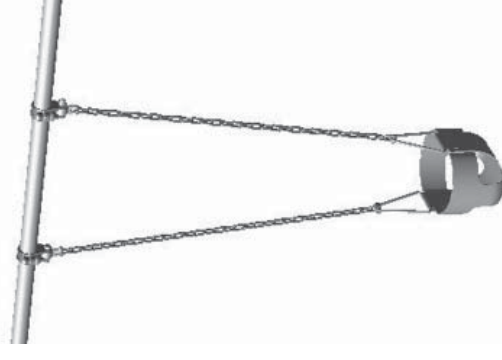
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®
Models XX0265, XX0266,
& XX0325
Infant Swing Seat with
Galvanized Chain



**PLAYWORLD
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The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

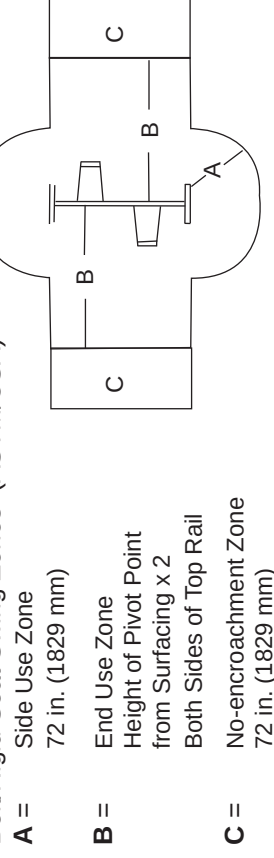
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

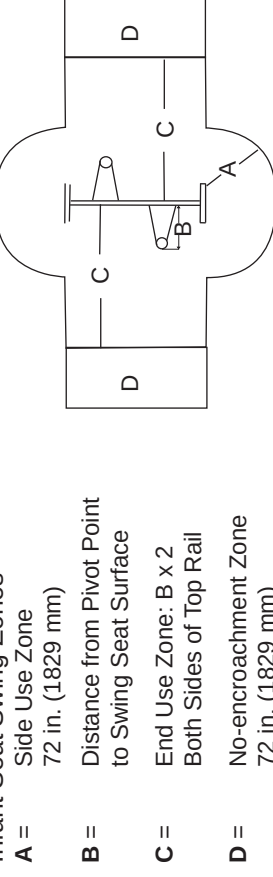
Belt/Rigid Seat Swing Zones (ASTM/CSA)



- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)

- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)

Installation Instructions

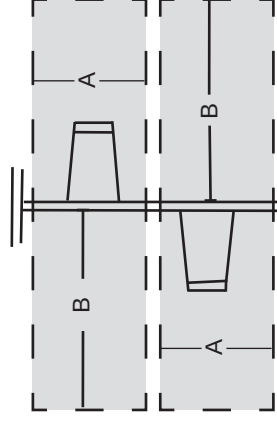
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

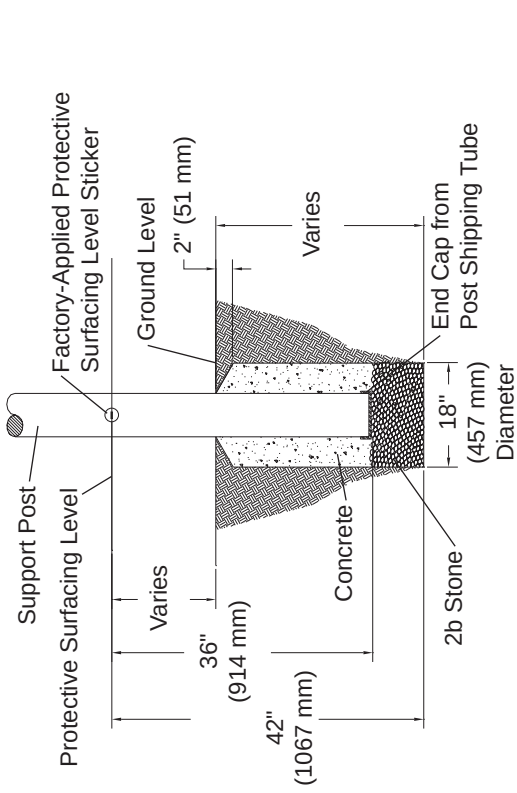
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

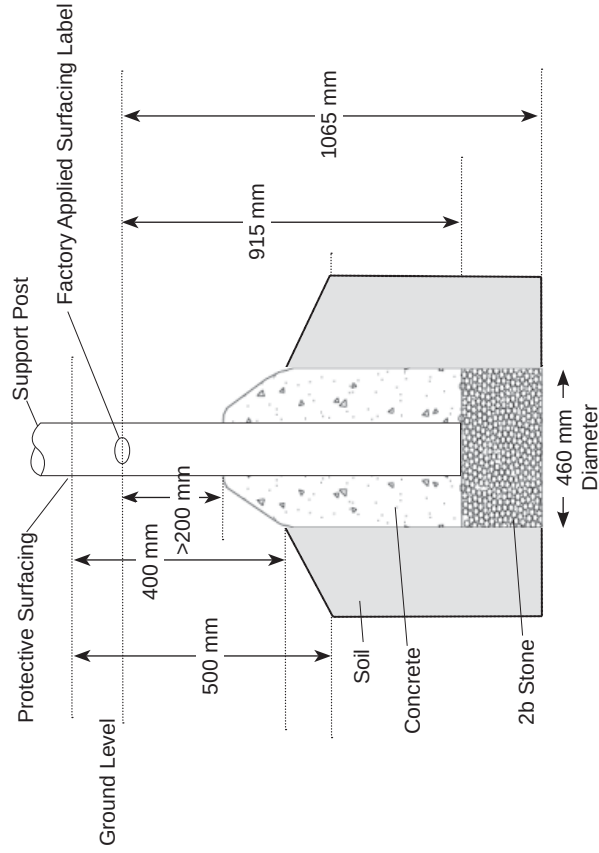
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

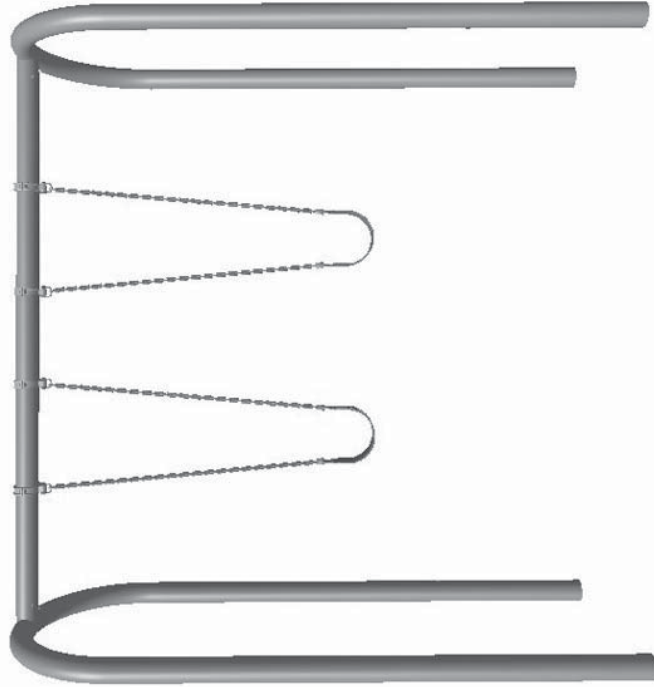
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



PLAYWORLD SYSTEMS®

The world needs play.™



Assembly View (representative model)

Installation Instructions

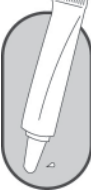
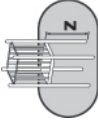
Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

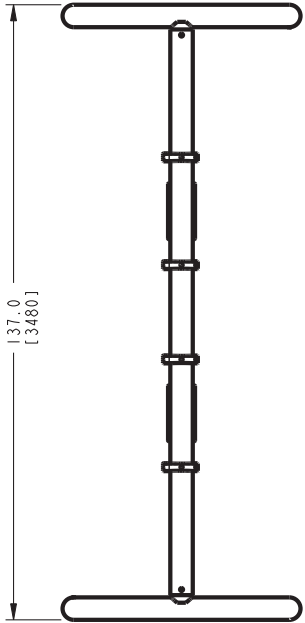
*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

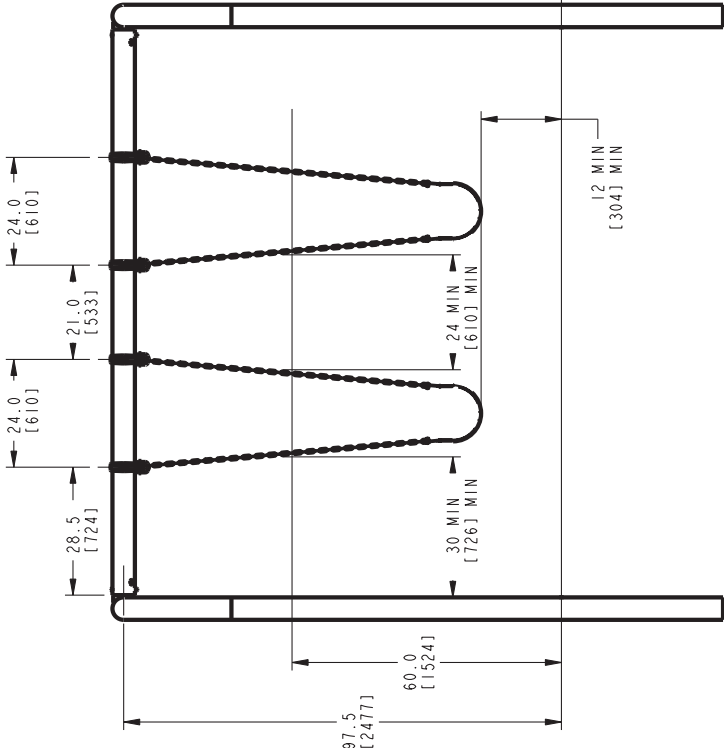
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



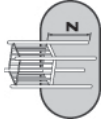
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views



Footing Diagram



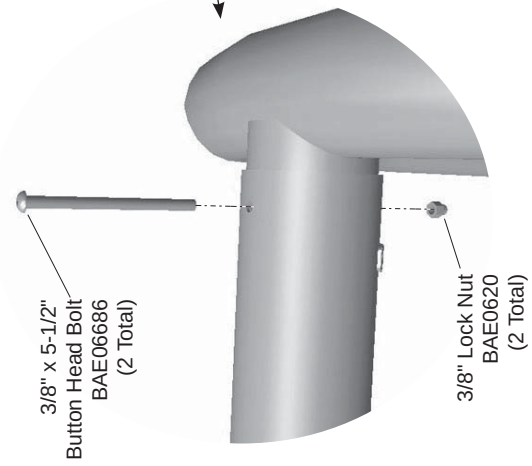
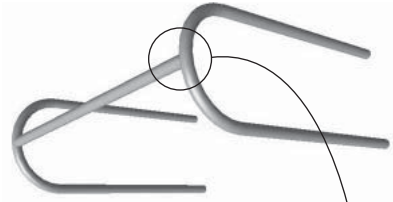
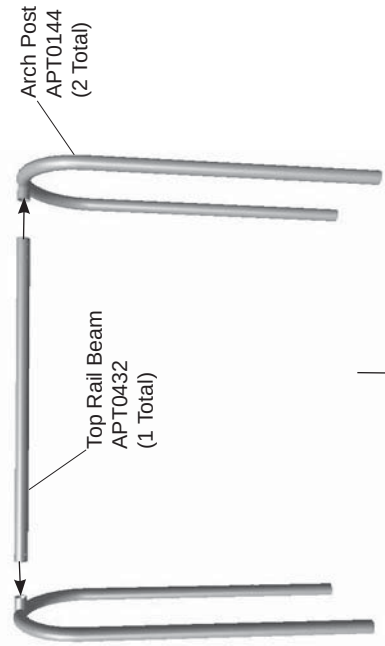
Critical Fall Height

EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)



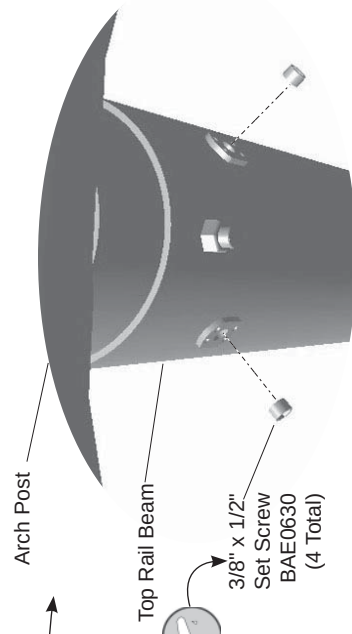
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the top rail to the arch posts.

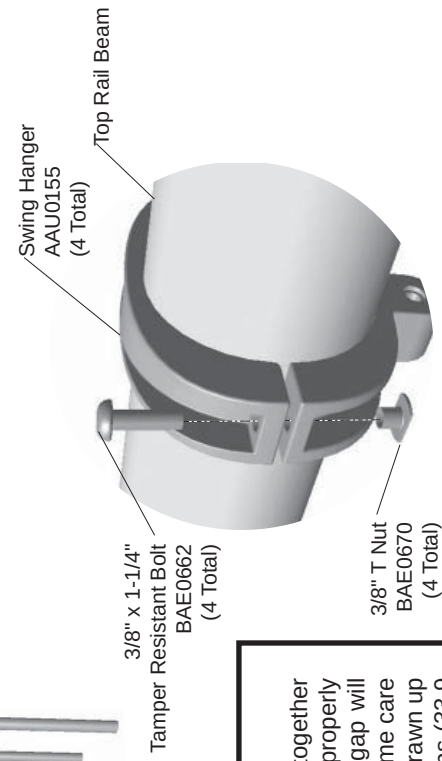


Underneath View



Detail B
Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Detail C
Step 8

Attach swing hangers to the top rail.

CAUTION

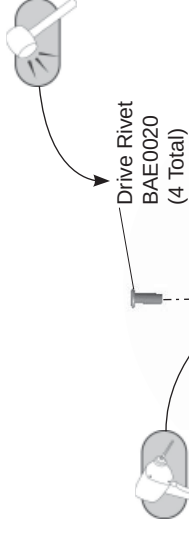
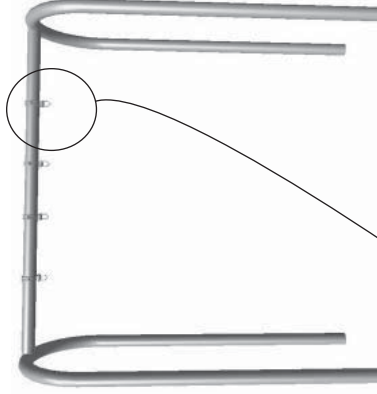
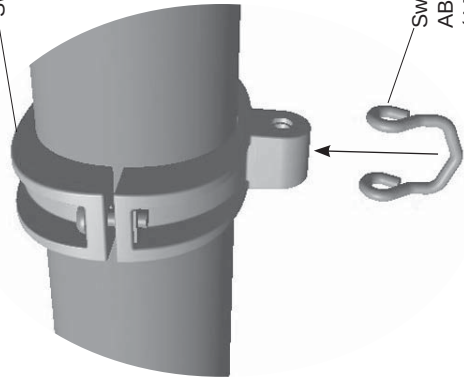
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

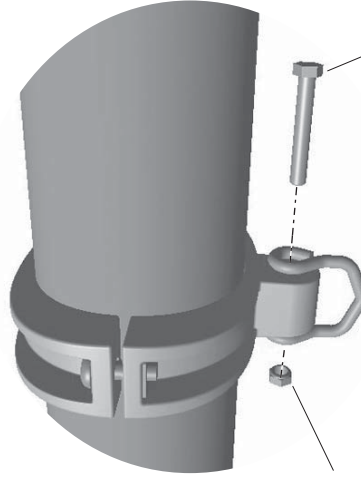
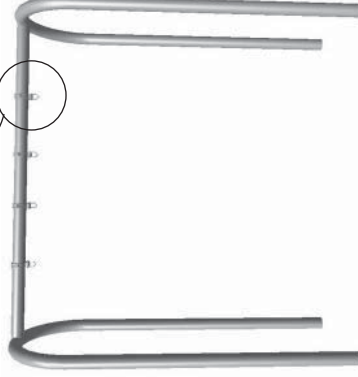
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

Swing Hanger



Detail E
Step 12
Secure the swing hangers to the top rail.



Detail D
Step 9

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


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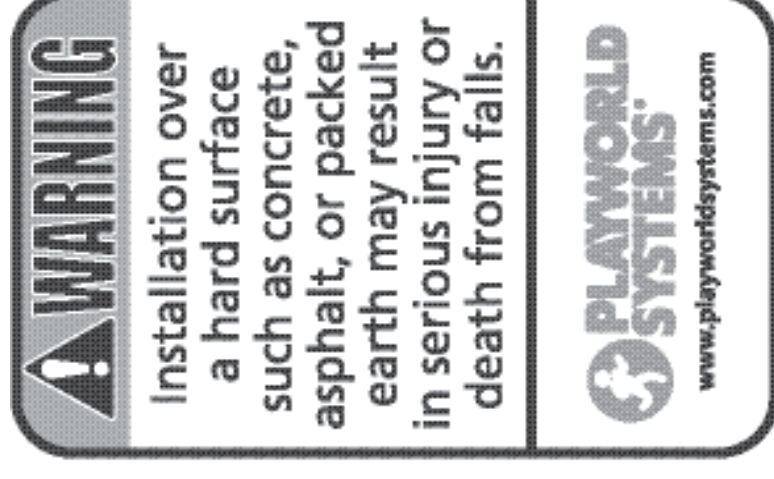
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
 - If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

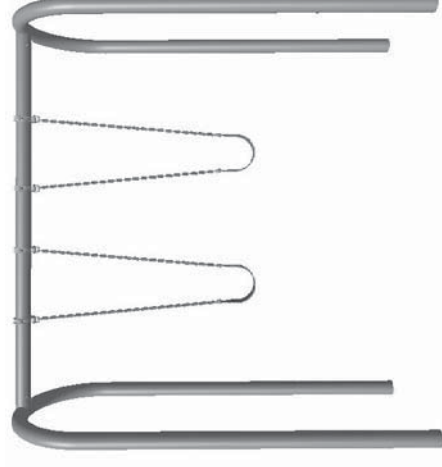
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing

8 ft. (2438 mm) Top Rail



The world needs play.™

For Customer Service, Call

800-233-8404 or

570-522-9800 OUTSIDE U.S.

1000 Buffalo Road • Lewisburg, PA 17837

www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

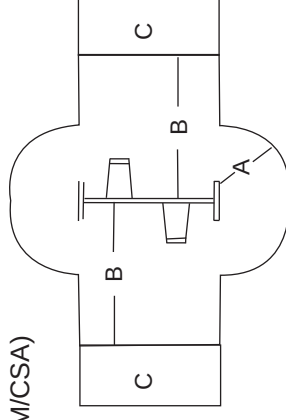
(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

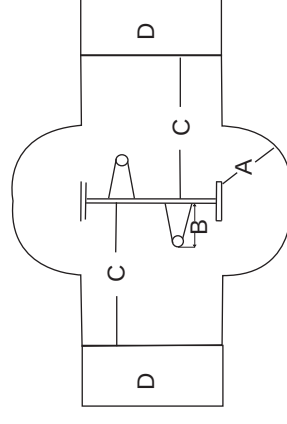
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

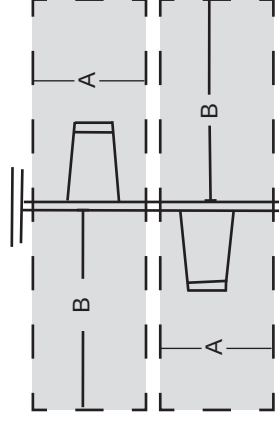
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

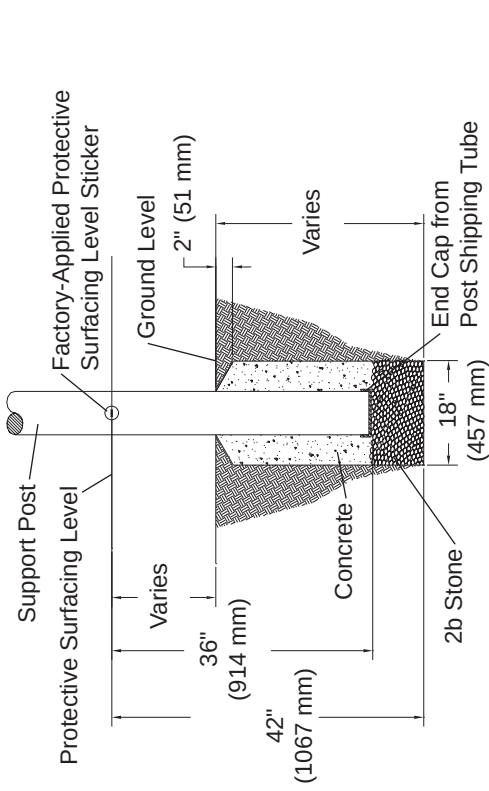
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

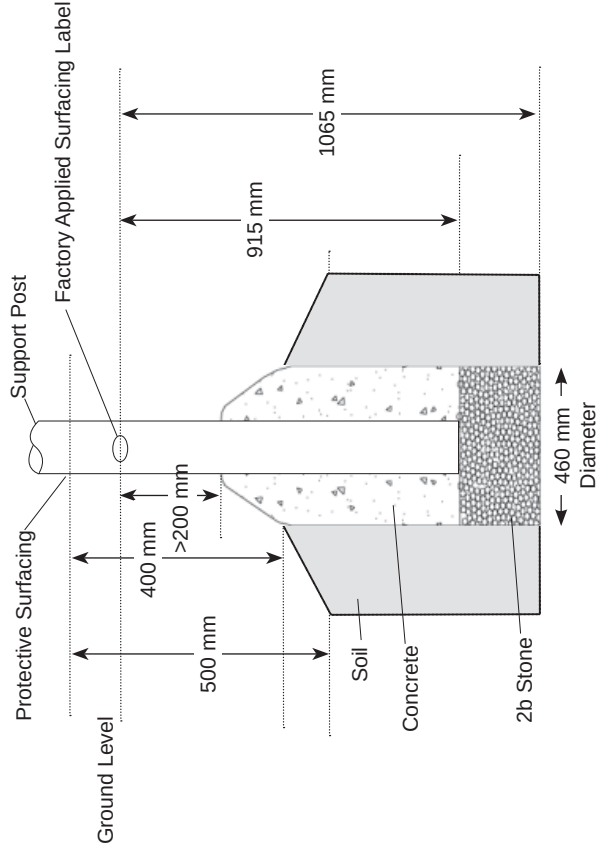
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

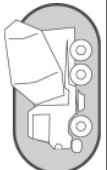
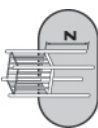


Assembly View

Installation Preparation

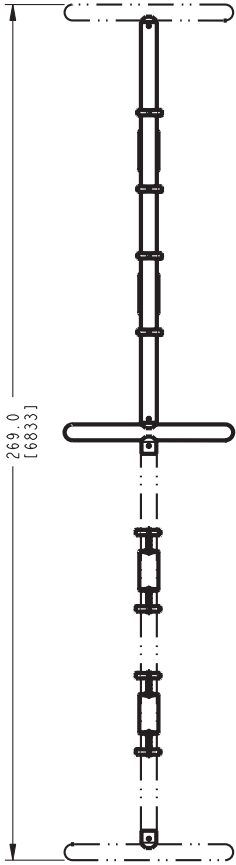
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

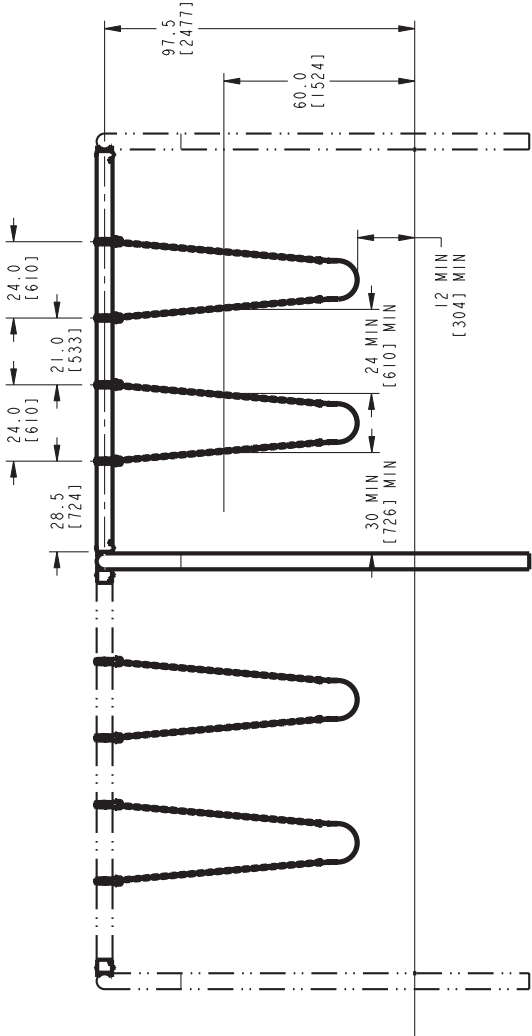
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

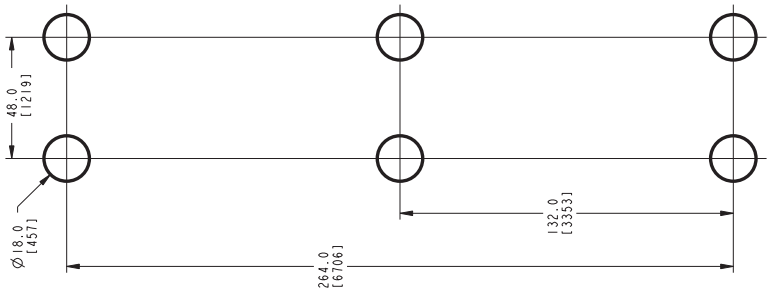
Top View



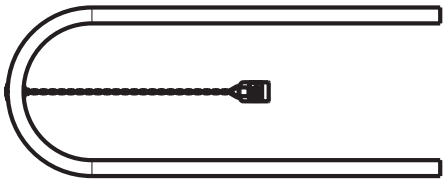
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

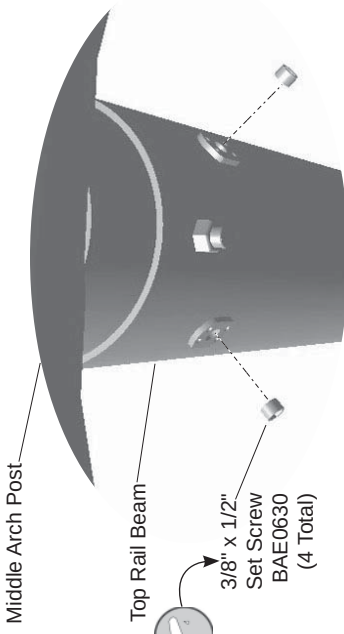
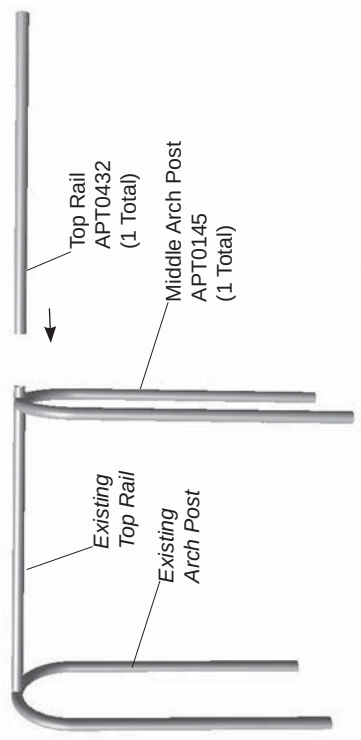


Footing Diagram



Installation Instructions

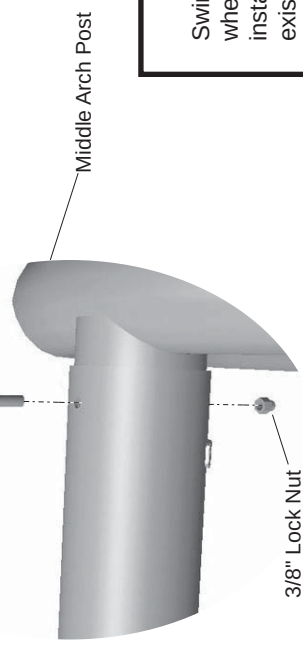
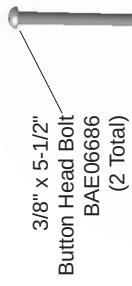
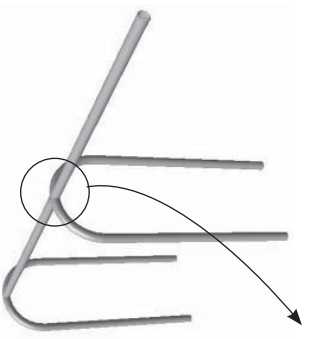
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

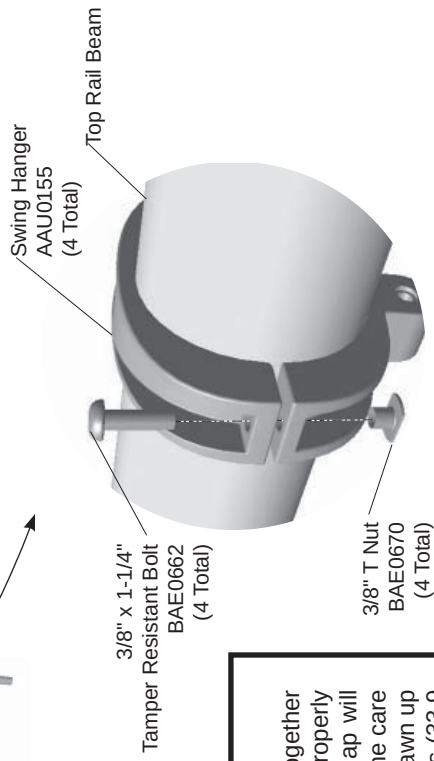
Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

Attach both top rails (new and existing) to the middle arch support.



Detail C Step 10

When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Attach swing hangers to the top rail.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

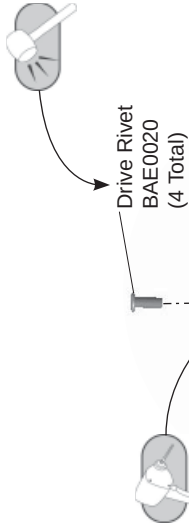
Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



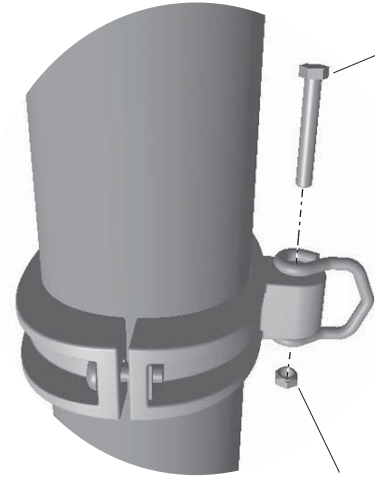
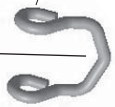
Installation Instructions

Swing Hanger



Drive Rivet
BAE0020
(4 Total)

Swing Clevis Connector
ABC0704
(4 Total)



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11

Attach each clevis to a swing hanger.

Detail E
Step 14
*Secure the swing hangers
to the top rail.*



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



**PLAYWORLD
SYSTEMS®**

The world needs play.™

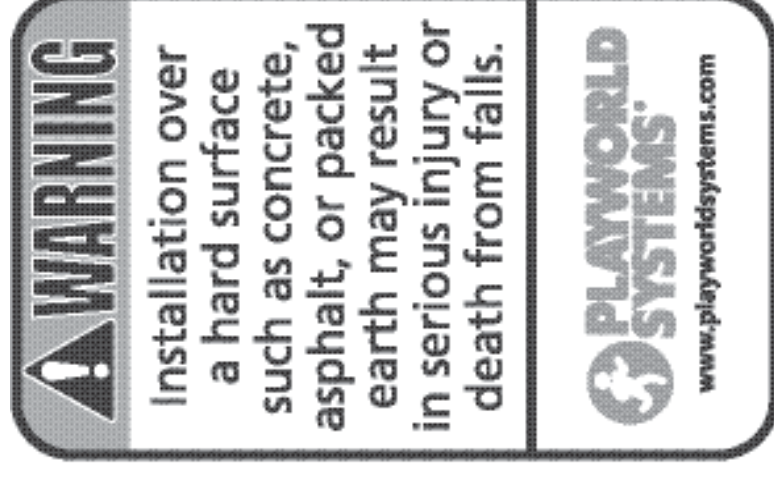
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

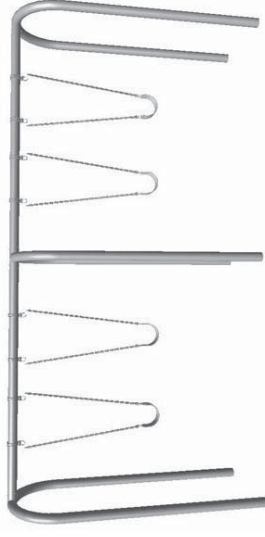
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



HAEN FAMILY PARK

MANUFACTURERS' INSTALLATION INFORMATION

HAEN FAMILY PARK

MADISON, WI

OPTION #2

ER
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



VIEW A

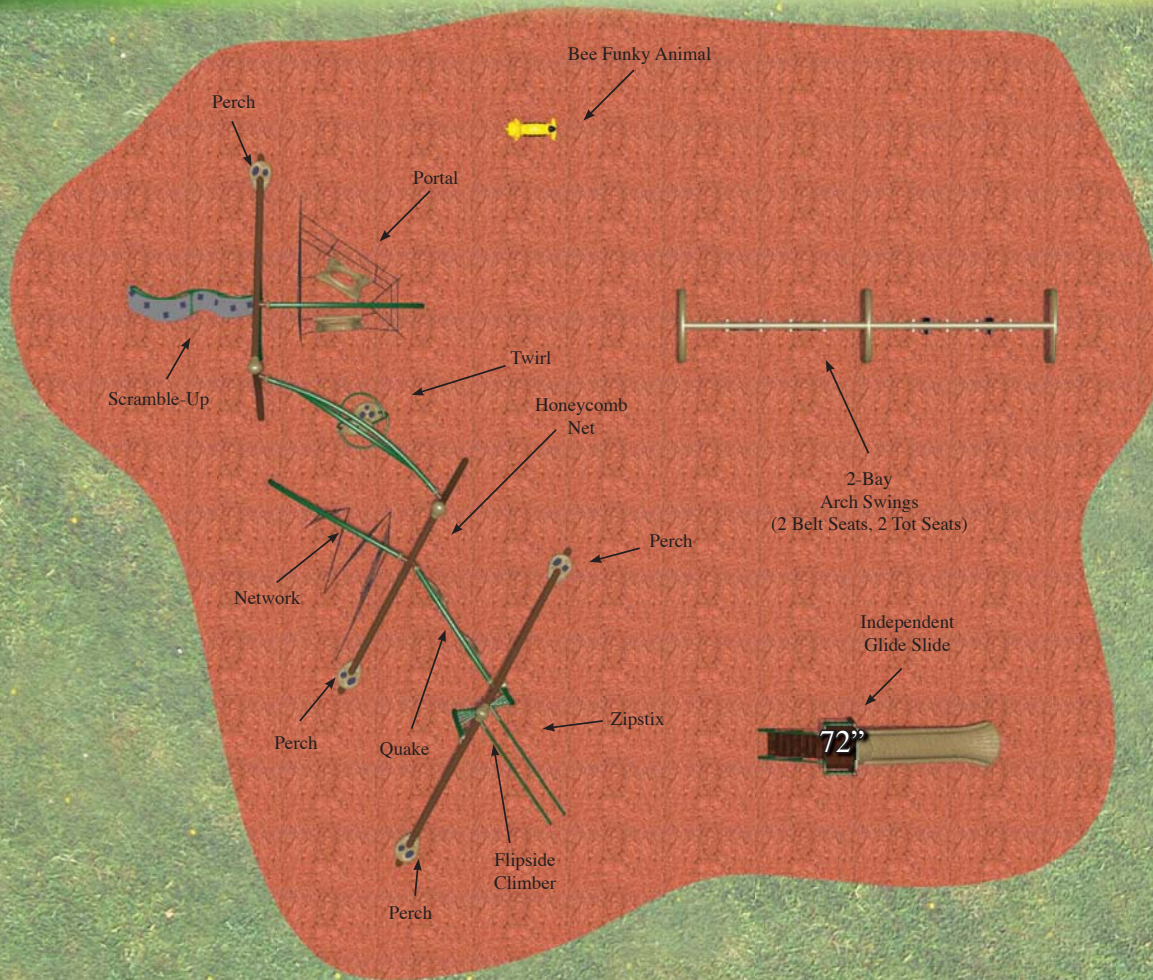


VIEW B

HAEN FAMILY PARK

MADISON, WI

OPTION #2



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW031114

Use Zone:

of Users: 38

of Active Play Events: 16

Colors Shown:



Chocolate



Green



Sand



Brownstone



haen park

Design Number: 46 - Compliance and Technical Data
Reference Document: ASTM F1487

Installation hours have been provided by manufacturer for information only, and are not to be assumed to be the actual time required to install parts. The Contractor will not be compensated to discrepancies between manufacturers estimated install hours and Contractor's actual install hours.

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events	
1	ZZAC0001	1	ACTIVO 'A' FRAME	Certified	346.83		683	2	3.00	0.24	1	
2	ZZAC0002	1	ACTIVO WILLOW CLIMBER W/ SCRAMBLE-UP	Certified	355.70		977	0	3.50	0.32	0	
3	ZZAC0005	1	ACTIVO PORTAL	Certified	204.07		2,102	6	6.00	0.43	1	
4	ZZAC0006	1	ACTIVO NETWORK	Certified	242.04		2,452	6	7.00	0.61	1	
5	ZZAC0011	1	ACTIVO TWIRL CONNECTOR	Certified	209.20		796	3	2.00	0.13	1	
6	ZZAC0015	1	ACTIVO AXIS	Certified	1,111.00		5,046	15	18.00	1.20	7	
7	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2	
8	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2	
9	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0	
10	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0	
11	ZZXX0567	1	BEE SPRING RIDER	Certified	51.48		272	1	1.50		1	
12	ZZCH2697	1	FREE-STANDING GLIDE SLIDE (72in DECK)	Certified	452.63		1,306	4	6.00	0.33	1	
Totals:					3,371.57	365	704	15,861	41	54.00	4.04	17
					1,517.21	Kg	317	Kg	16	Metric Tons	3.07	m3



Footings plan reflects location of footings relative to structure ONLY. Footing plan does not reflect location of placement of structure in field. Refer to site plans for placement of structure.



FOOTING LEGEND

	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 & 4)
	= CANTILEVER "T" POST, ANY COMPONENT POST LENGTH
	= FOOTING (DETAIL 2) (2200mm INDICATES PART NUMBER)
	= ROUND ZERO POST FOOTING (DETAIL 2) (144" (3658mm) INDICATES POST LENGTH)

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

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PLAYWORLD SYSTEMS®

The world needs play.®

HAEN FAMILY PARK
PLAYGROUND

Installation Instructions Playworld Systems® Models AC0001 and AC0001S Activo "A" Frame In-Ground and Surface Mount



Assembly View (representative structure)

Model	Weight
ZZAC0001	346.8 lbs. (157,6 kg)
ZZAC0001S	275.9 lbs. (125,4 kg)

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time (in-ground): 3 man-hours
Installation Time (surface mount): 2 man-hours
Weight: (See the table)
Concrete Required: 0,24 cubic yard (0,18 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

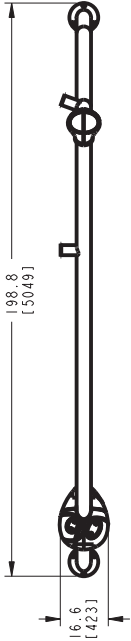
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

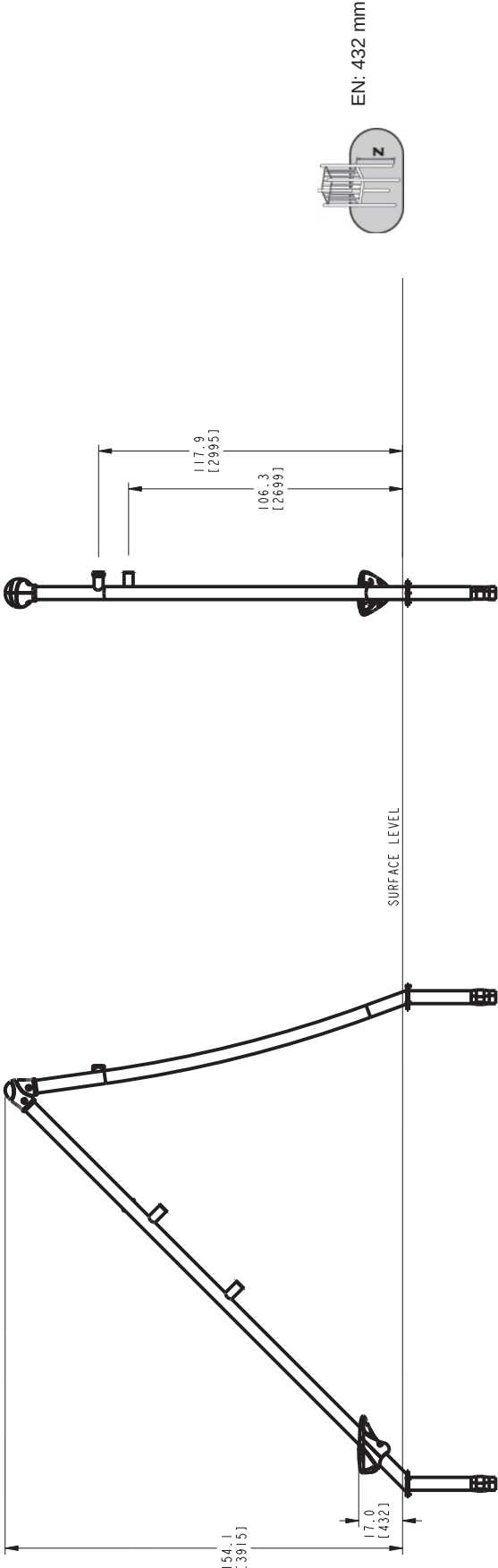
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram
Both Models



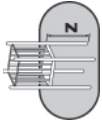
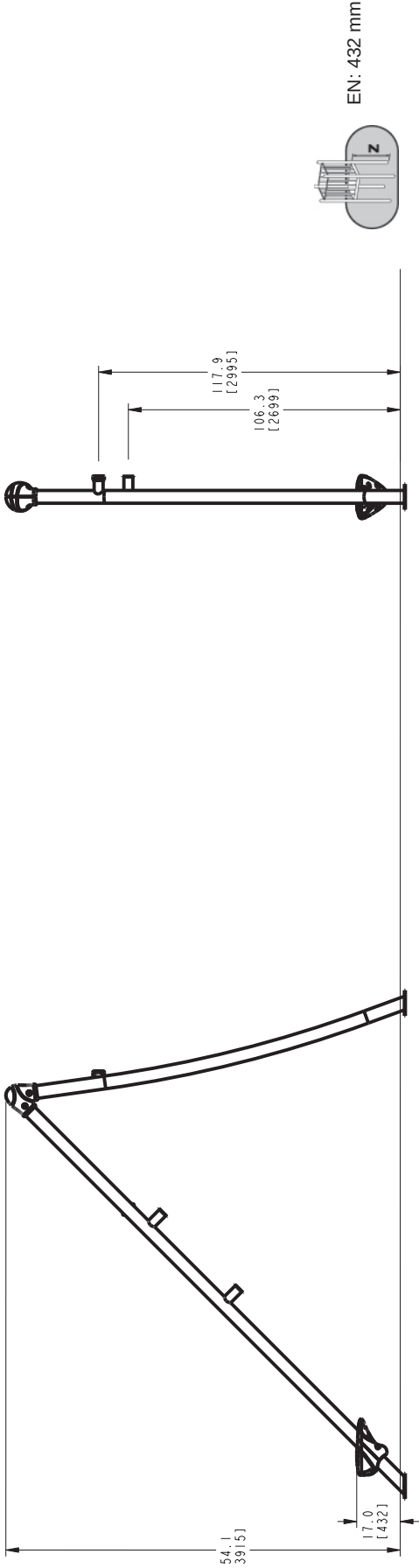
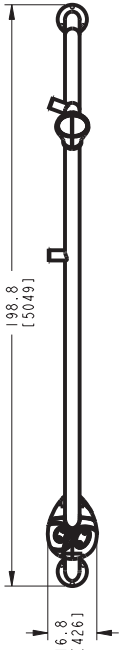
Elevation Views
ZZAC0001



Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



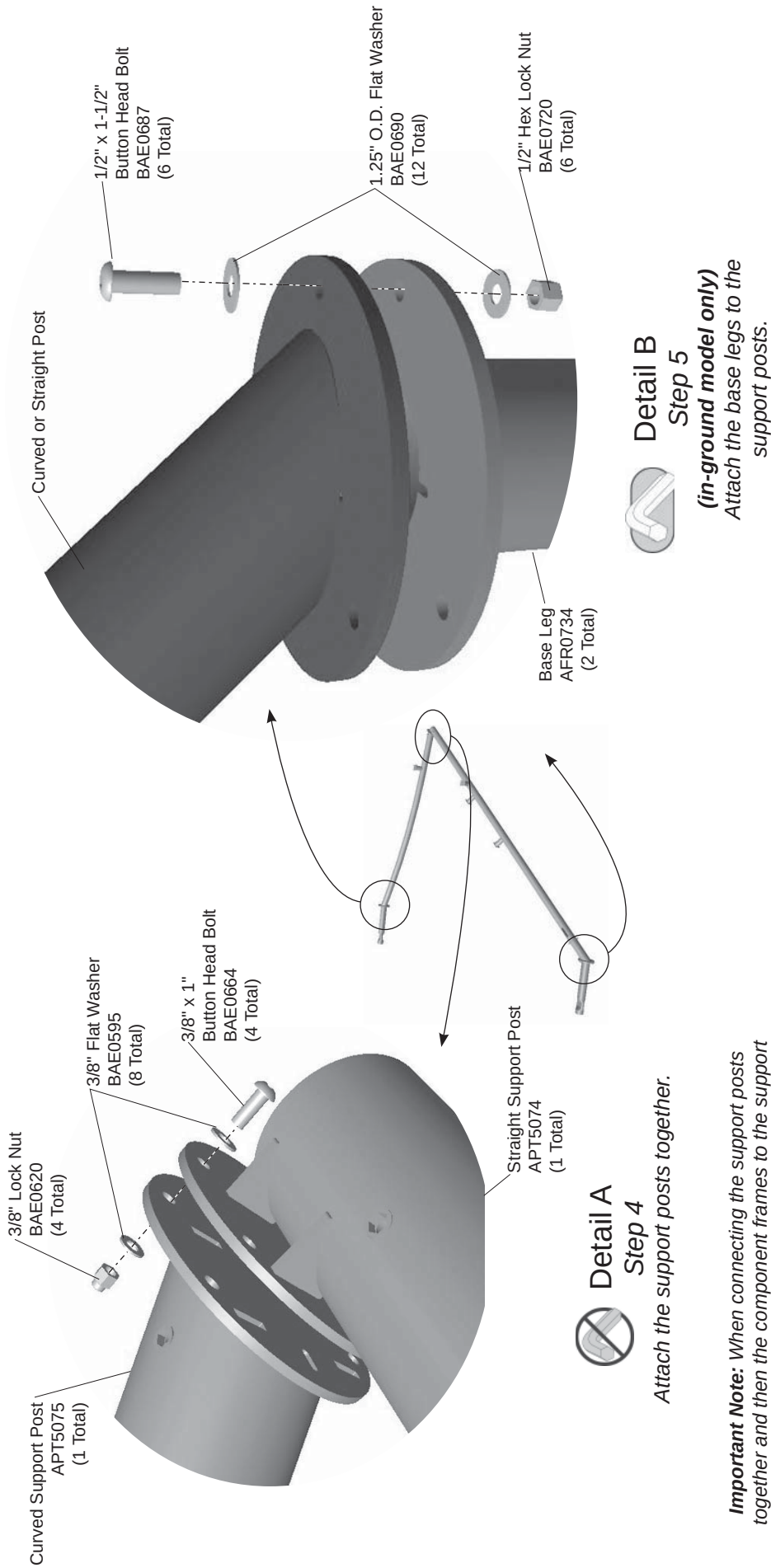
EN: 432 mm

Elevation Views
ZZAC0001S



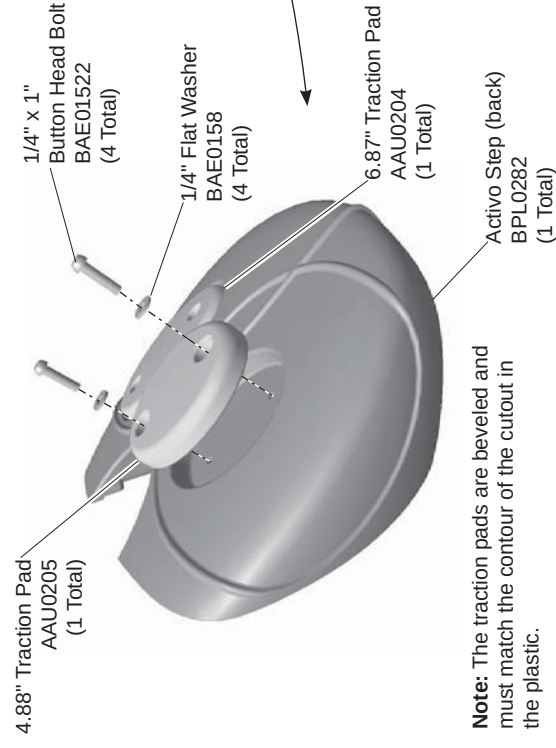
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

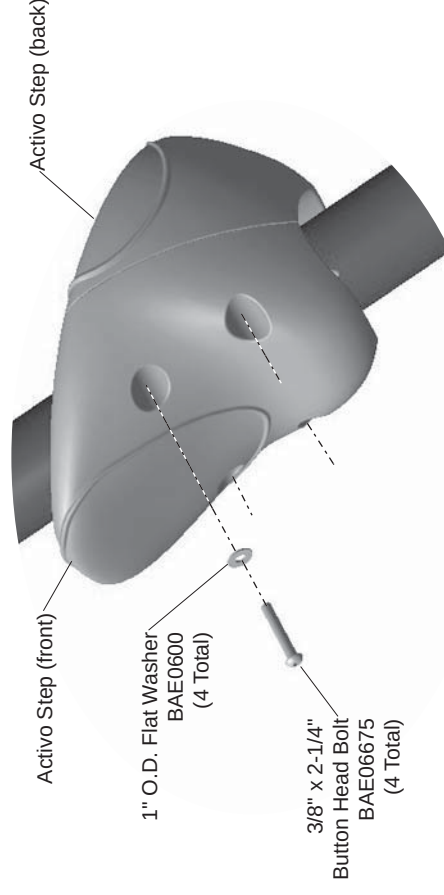
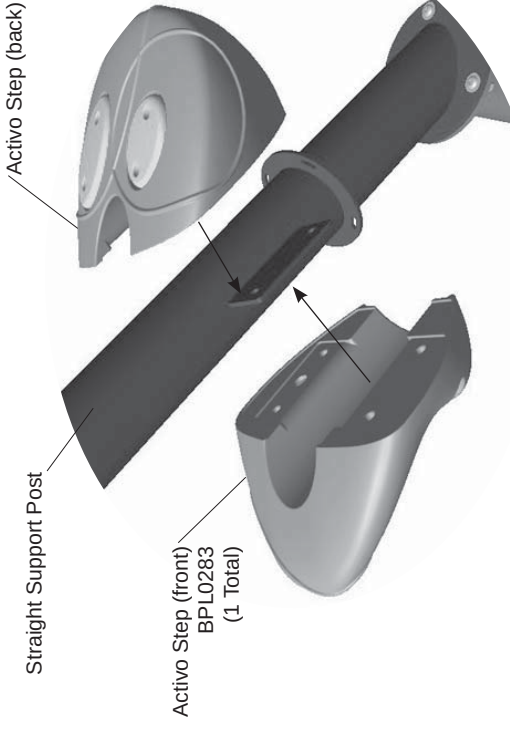


Important Note: When connecting the support posts together and then the component frames to the support posts, make sure to leave the connections loose until attaching the plate covers and the Active covers.

Installation Instructions



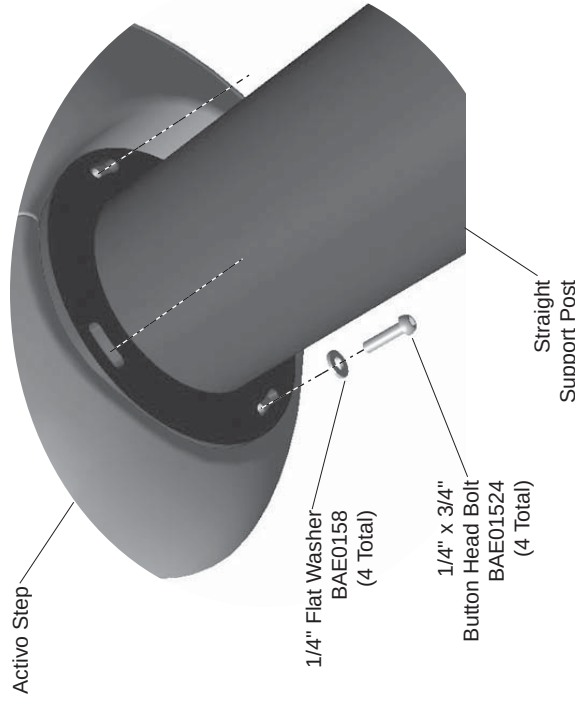
Detail C
Step 6
Attach the traction pads to the Active step.



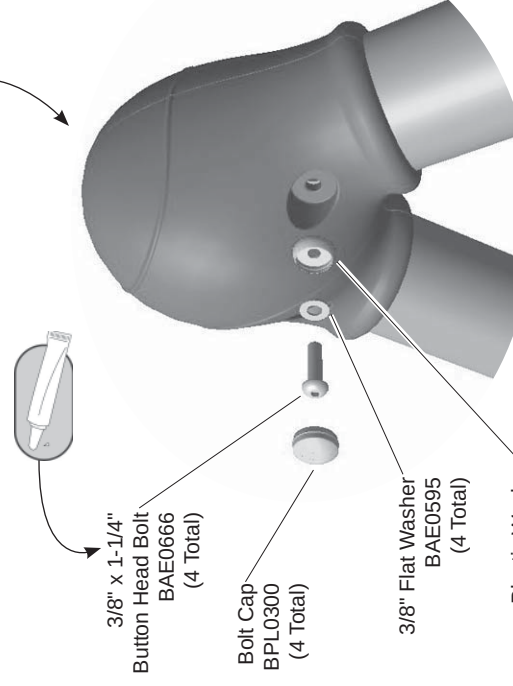
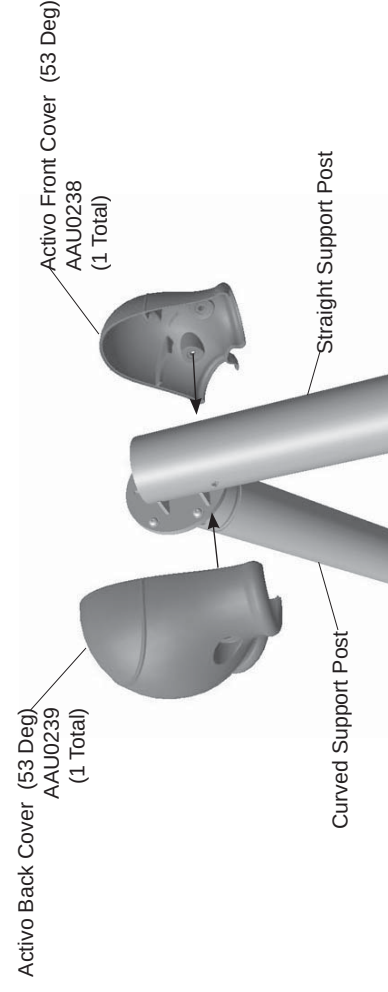
Detail D-1
Step 7
Attach the steps to the straight support post.
(Upper connections)



Installation Instructions



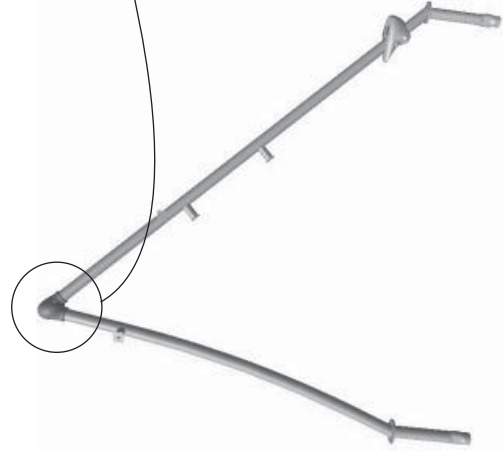
Detail D-2
Step 7
Attach the steps to the straight support post.
(Bottom connections)



Detail E
Step 9

Important Note: Do Not install bolt caps until the entire structure is assembled.

Attach the covers to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Active Guidelines at the beginning of this document. Use the **Support Post Footing Detail** for the in-ground model.

Step 4: Attach the support posts together. See **Detail A**. Lay the posts on the ground near their footing location. Bring the top of the posts together and align the holes in the plates. Attach as shown.

Step 5: Attach the base legs to the support posts (*in-ground models only*). See **Detail B**. Align the base legs with the bottom of the posts and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 6: Attach the traction pads to the Active step. See **Detail C**. Place the traction pads into the recessed portions in the step and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Note: The traction pads are beveled and must match the contour of the recessed portion in the step.

Step 7: Attach the Active steps to the straight support post. See **Details D-1 (Upper Connections)** and **D-2 (Bottom Connections)**. *Upper Connections.* Close the steps around the frames. The metal plate on the frame will fit into the recessed area of the step. Align the holes and attach as shown. *Bottom Connections:* Insert each bolt up through the plate in the frame and into the step and attach as shown.

Step 8: Place the frame assembly in or on it's footing. Block or brace in place and finish assembling the structure. Once the structure is assembled, continue with **Step 9** and the **Final Details**.

Note: Before attaching the Active covers, make sure to fully tighten the post to post connections.

Step 9: Attach the Active covers to the top of the post assembly. See **Detail E**. Position each cover around the top of the support posts. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Tighten each side evenly so that there is no gap between the covers.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 11: Select plastic caps and press over the plastic flanged washers. See **Detail E**.

Note: The plastic caps install easier when they are warm.



Bill of Materials

AC0001 - ACTIVO "A" FRAME

PART NO.	DESCRIPTION	QTY.
AAU0204	6.87" TRACTION PAD	1
AAU0205	4.88" TRACTION PAD	1
AAU0238	ACTIVO COVER (53 DEG. FRONT)	1
AAU0239	ACTIVO COVER (53 DEG. BACK)	1
AFR0734	FRAME - 5.00" O.D. x 34.12"	2
APT5074	POST - 221.45" x 13.69" x 12.49"	1
APT5075	POST - 152.25" x 43.49" x 13.16"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	6
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	12
BAE0720	NUT - 1/2"-13 LOCK	6
BPL0282	ACTIVO STEP (BACK)	1
BPL0283	ACTIVO STEP (FRONT)	1
BPL0300	CAP - 3/8" BOLT	4

AC0001S - ACTIVO "A" FRAME SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0204	6.87" TRACTION PAD	1
AAU0205	4.88" TRACTION PAD	1
AAU0238	ACTIVO COVER (53 DEG. FRONT)	1
AAU0239	ACTIVO COVER (53 DEG. BACK)	1
APT5074	POST - 221.45" x 13.69" x 12.49"	1
APT5075	POST - 152.25" x 43.49" x 13.16"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BPL0282	ACTIVO STEP (BACK)	1
BPL0283	ACTIVO STEP (FRONT)	1
BPL0300	CAP - 3/8" BOLT	4



**PLAYWORLD
SYSTEMS®**

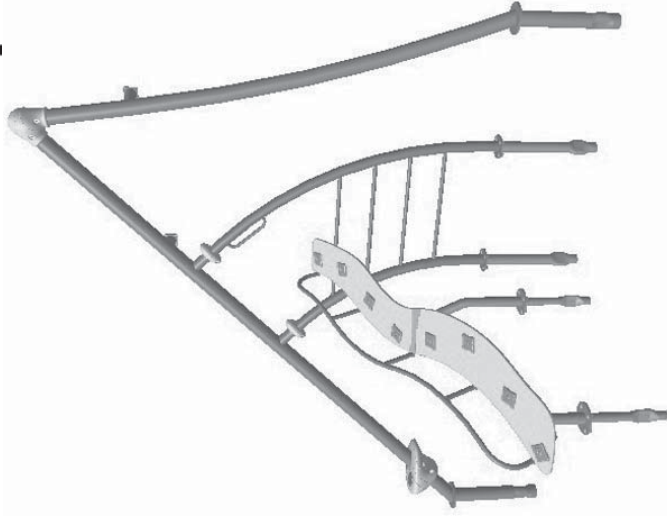
The world needs play.®

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA. 17837
www.playworldsystems.com



PLAYWORLD SYSTEMS®

The world needs play.®



Assembly View (representative structure)

Installation Instructions Playworld Systems® Models AC0002 and AC0002S Activo Willow Climber w/ Scramble Up Climber In-Ground and Surface Mount

Installation Preparation

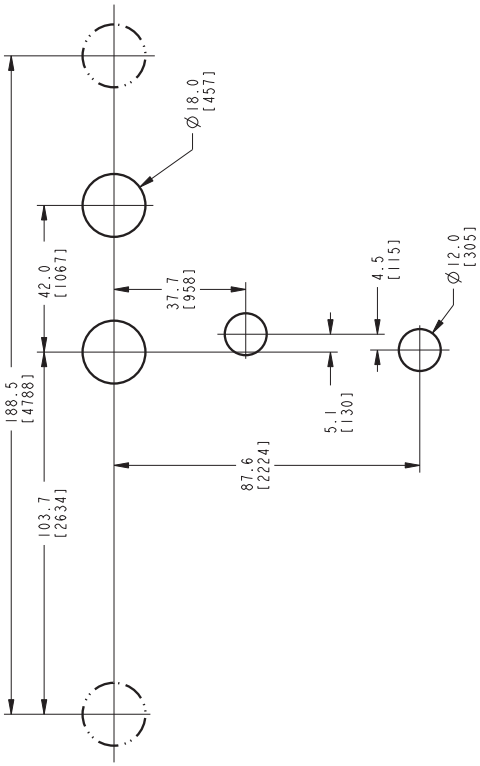
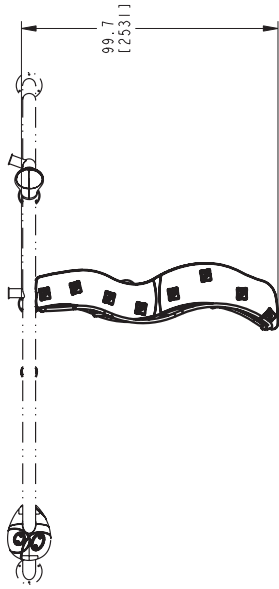
Recommended Crew: Three (3) adults
Installation Time (in-ground): 3.5 man-hours
Installation Time (surface mount): 1.5 man-hours
Concrete Required: 0.32 cubic yard (0.24 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

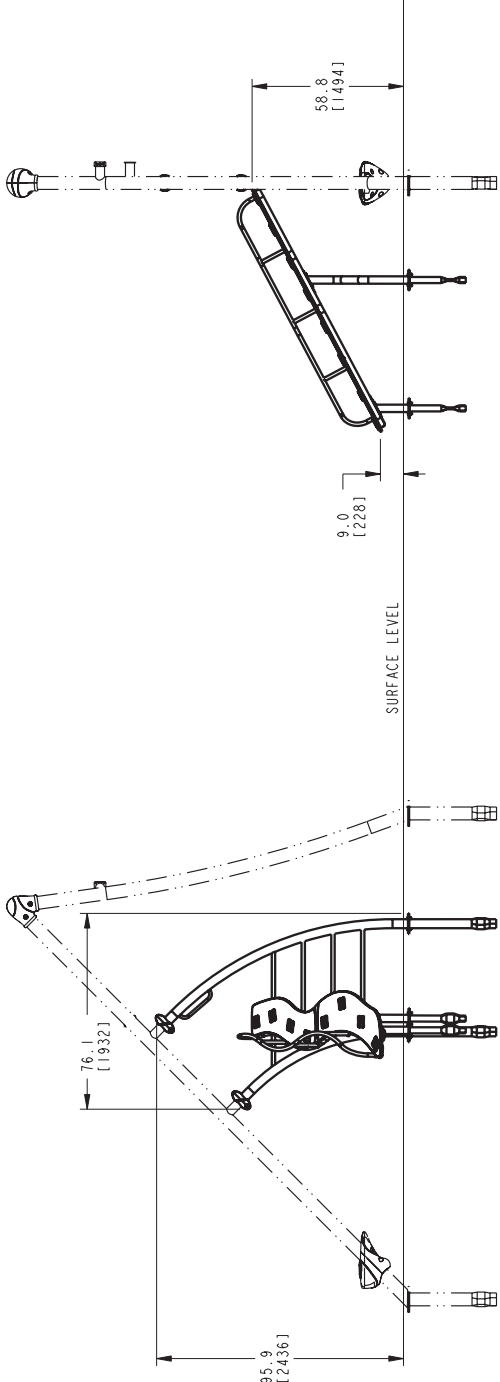
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



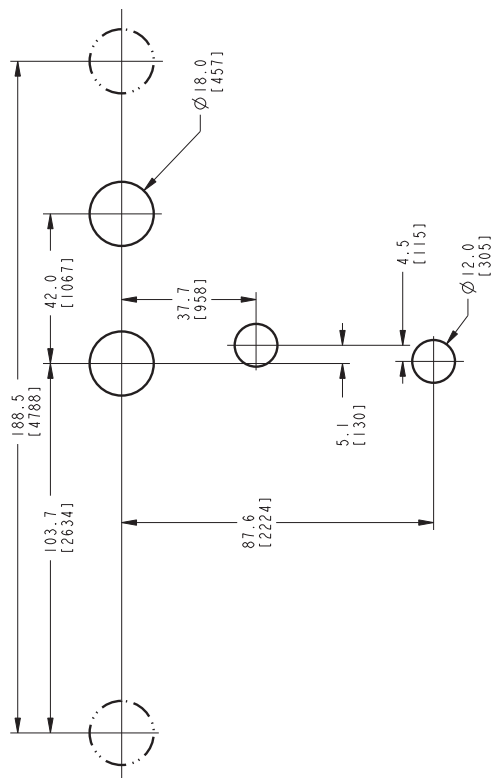
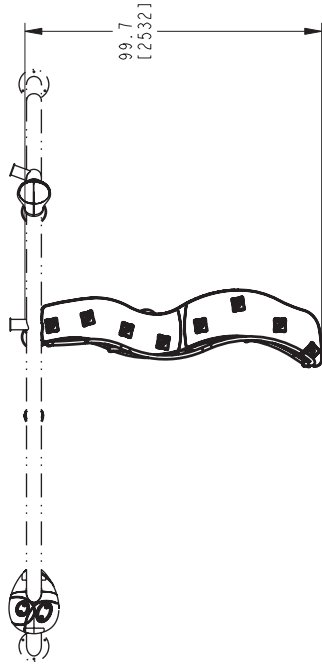
Elevation Views
ZZAC0002



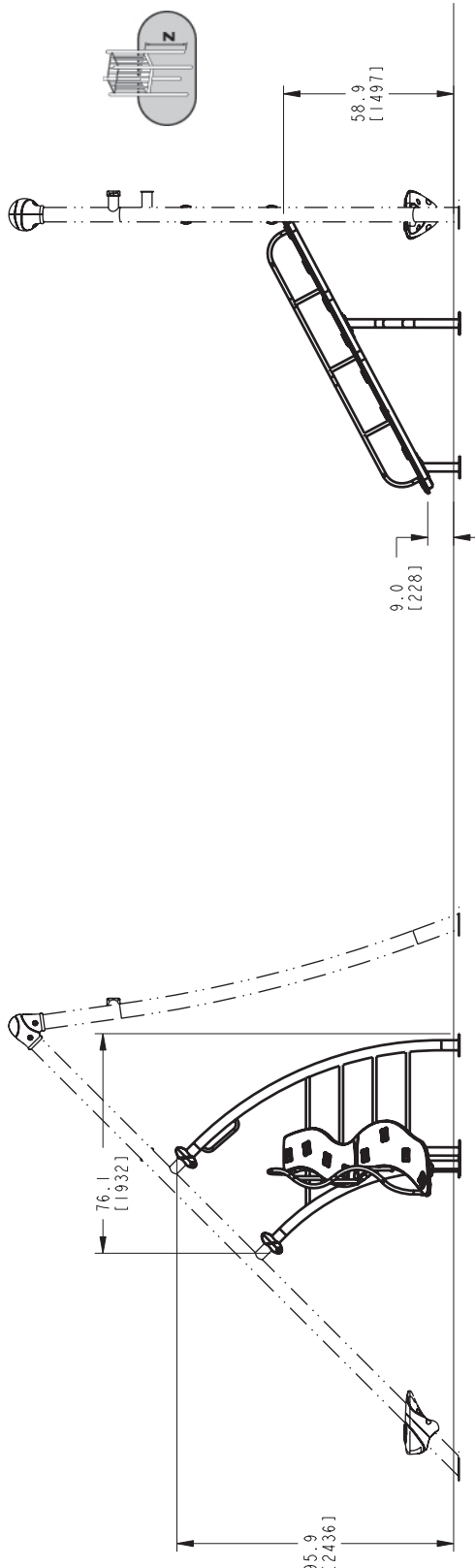
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram

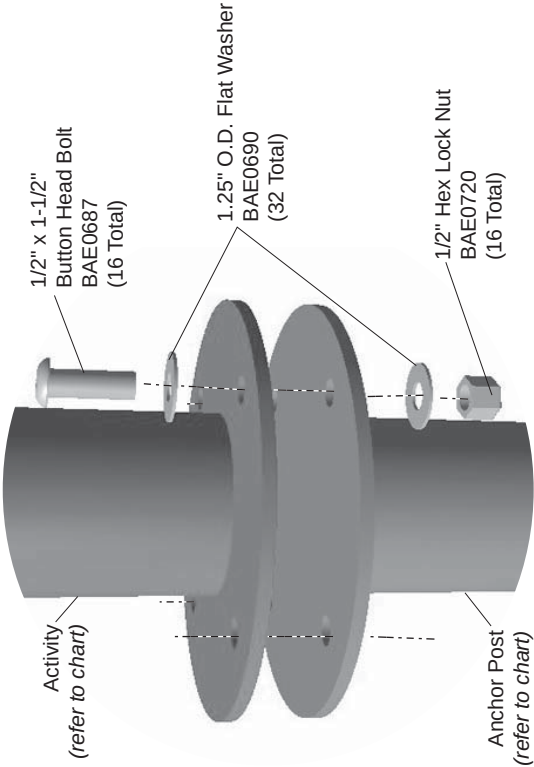


Elevation Views
ZZAC0002S



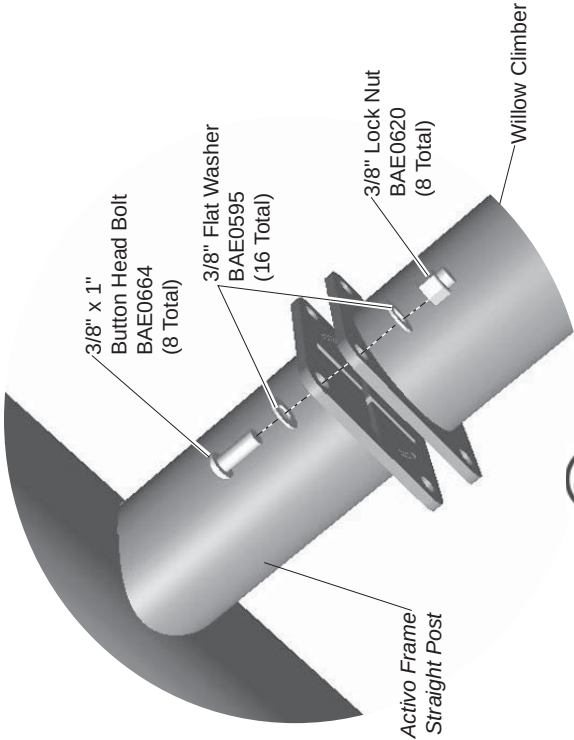
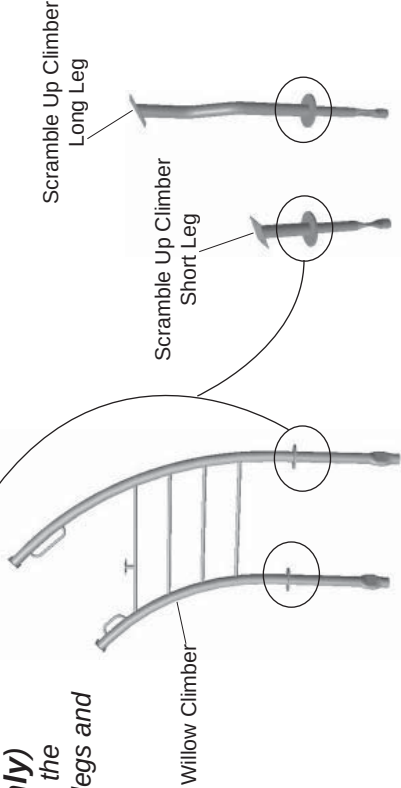
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



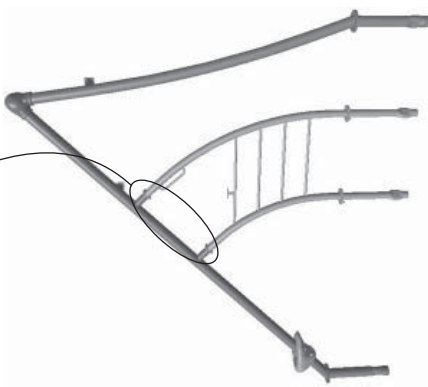
Detail A
Step 4

(in-ground model only)
Attach the anchor posts to the Scramble Up Climber support legs and the Willow Climber.



Detail B
Step 5

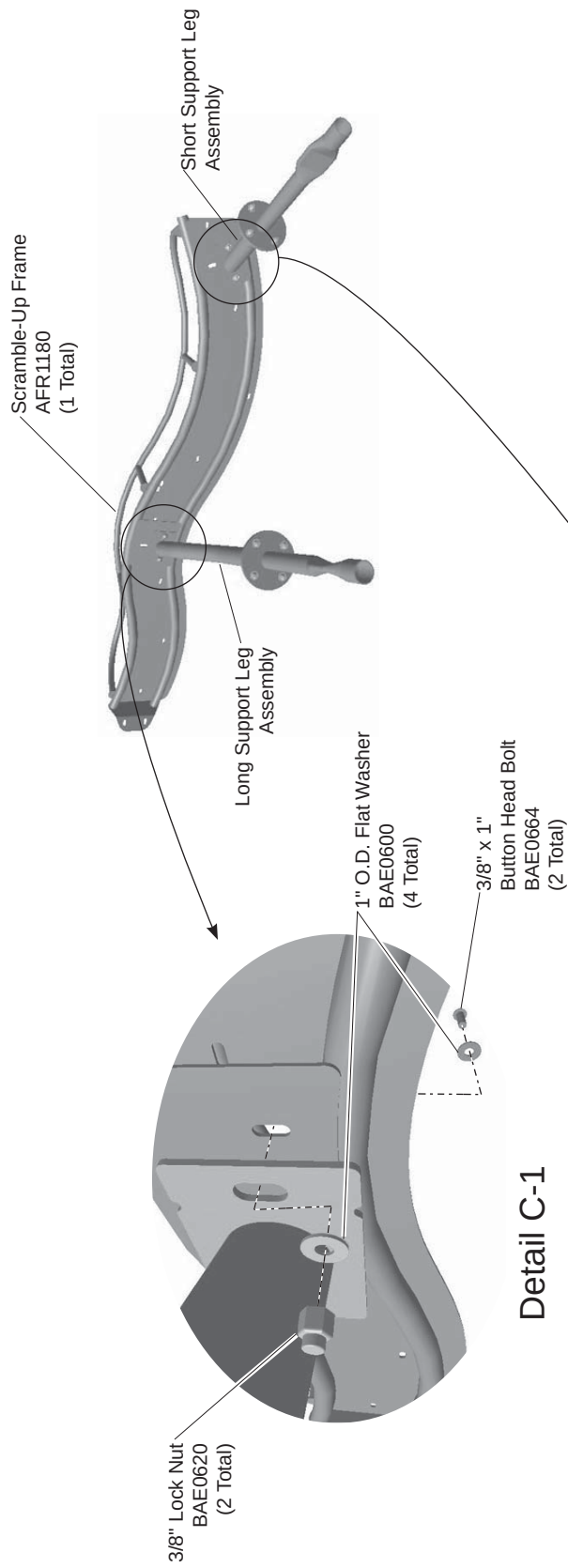
Attach the Willow Climber to the Active frame.



Activity	Part Number	Anchor Post Number	Number of Posts
Willow Climber	ACL0250	AFM0633	2
Scramble Up Climber (Short Leg)	AFR1186	AFR0733	1
Scramble Up Climber (Long Leg)	AFR1185	AFR0733	1



Installation Instructions



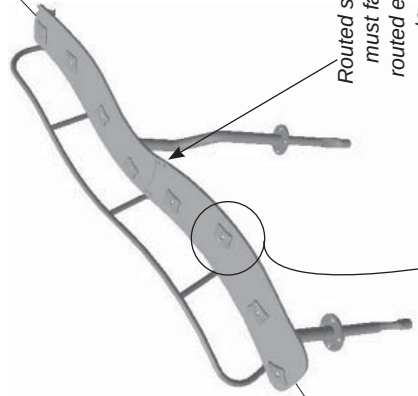
Details C-1 and C-2 Step 6

Attach the support legs to the Scramble-Up frame.



Installation Instructions

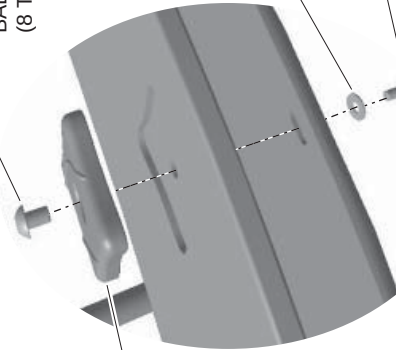
Upper Scramble-Up
Panel
BFC1500
(1 Total)



Routed side of the panels
must face up and the
routed ends placed next
to each other.

Lower Scramble-Up
Panel
BFC1501
(1 Total)

3/8" x 11/16" Button
Head Nut
BAE1672
(8 Total)



Star Handle
AAU0752
(8 Total)

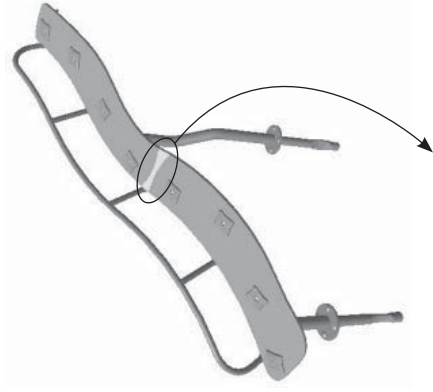
1" O.D. Flat Washer
BAE0600
(8 Total)

3/8" x 1"
Button Head Bolt
BAE0664
(8 Total)

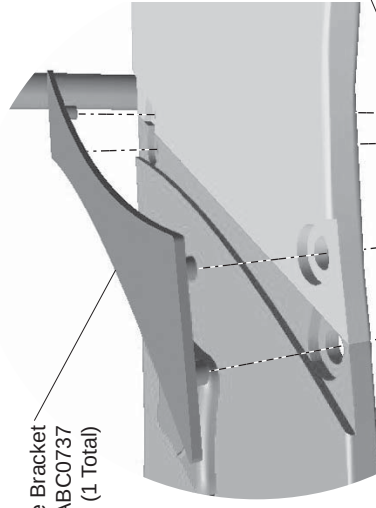


Detail D
Step 7

Attach the handles and panels to the Scramble-Up frame.



Middle Bracket
ABC0737
(1 Total)



1" O.D. Flat Washer
BAE0600
(2 Total)

Handrail side of the climber.



3/8" x 3/4"
Button Head Bolt
BAE0659
(2 Total)

Handrail side of the climber.

1" O.D. Flat Washer
BAE0600
(2 Total)

Open side of the climber.

3/8" x 1/2" Button
Head Bolt
BAE0661
(2 Total)

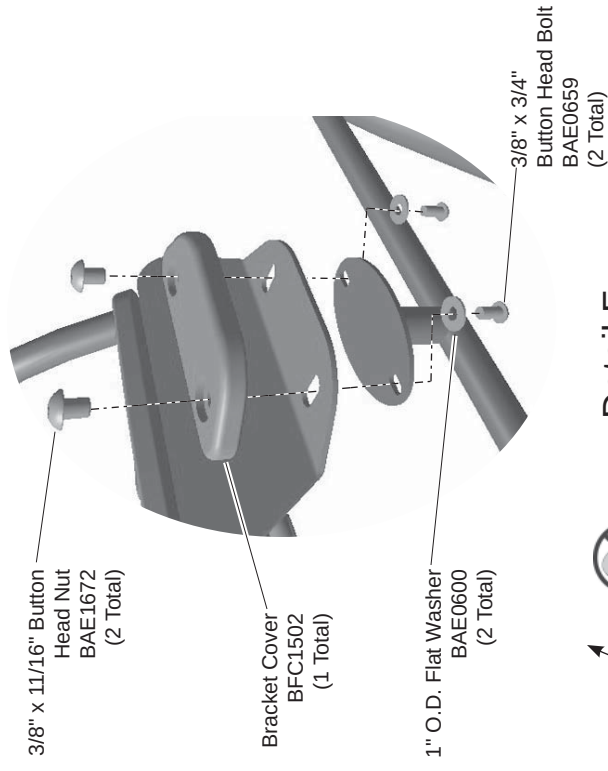
Open side of the climber.



Detail E
Step 8

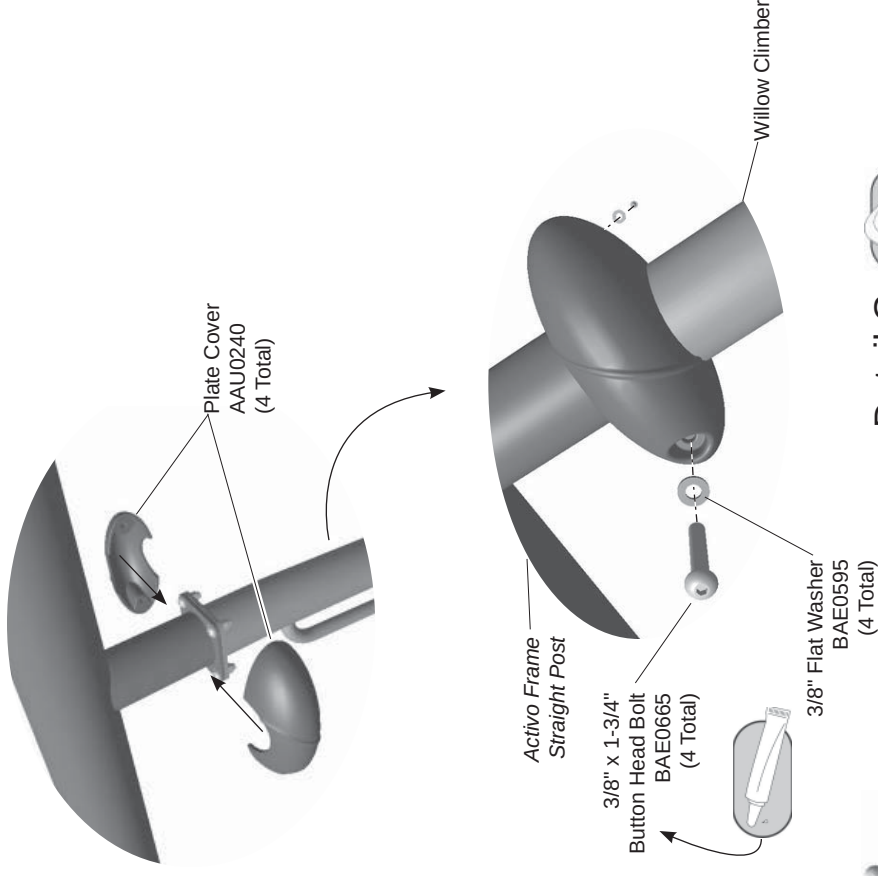
Attach the middle bracket to the panels.

Installation Instructions



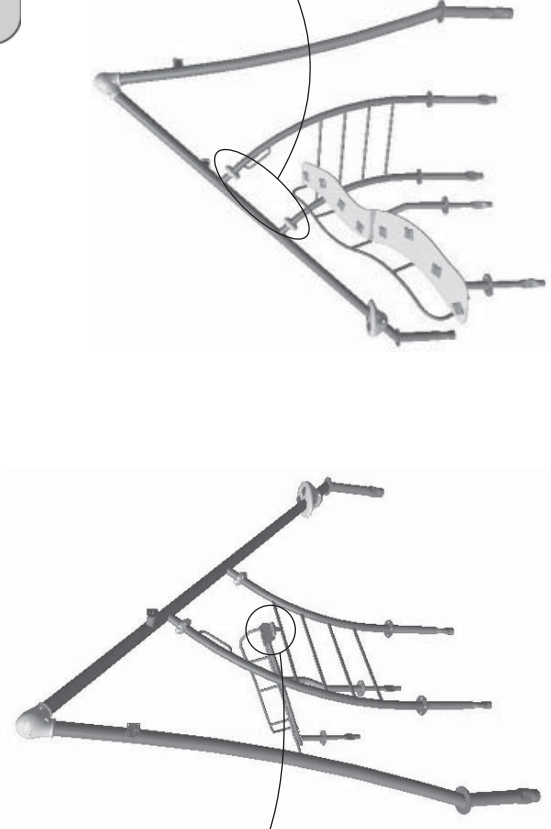
Detail F Step 9

Attach the top of the Scramble-Up frame to the existing frame.



Detail G Step 11

Attach the plate covers to the Active frame and Willow Climber.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Active Guidelines at the beginning of this document. Use the **Support Post Footing Detail (Willow Climber)** and the **Standard Component Footing Detail (Scramble Up Climber)** for the in-ground model.

Step 4 (in-ground model only): Attach the anchor posts to the Willow Climber and the top and bottom Scramble Up support legs. See **Detail A**. Lay the Willow Climber and the Scramble Up support legs on the ground near their footing location. Position the appropriate anchor post against the bottom of the Willow Climber and Scramble Up legs, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 5: Attach the Willow Climber to the Active frame. See **Detail B**. Position the top of the Willow Climber against the Active frame straight post, align the holes, and attach as shown.

Step 6: Attach the support legs to the Scramble-Up frame. See **Details C-1 and C-2**. Position mounting bracket on the top of each support leg against the bottom of the frame and attach as shown. The longer leg will attach to the end of the frame that has a mounting bracket for attachment to the Willow Climber frame. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 7: Attach the handles and panels to the Scramble-Up frame. See **Detail D**. Place the panels, oriented as shown in the detail and reference, on top of the frame with the handles placed in the routed out sections and attach as shown.

Step 8: Attach the middle bracket to the panels. See **Detail E**. Place the bracket over the ends of the panels in the middle of the frame, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 9: Attach the top of the Scramble-Up frame to the Willow Climber frame. See **Detail F**. Place the Scramble-Up frame into, or onto, its footing. Position the bracket cover on top of the Scramble-Up frame mounting bracket and attach as shown to the Willow Climber frame mounting bracket.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 11: Attach the plate covers to the Active frame and Willow Climber. See **Detail G**. Position a pair covers over the connected mounting plates of the frame and climber, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 12: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

AC0002 - ACTIVO WILLOW CLIMBER w/ SCRAMBLE UP CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVO PLATE COVER	4
AAU0752	STAR HANDLE	8
ABC0737	BRACKET - 15.84" x 3.44" x .68"	1
ACL0250	LADDER - GLIDE	1
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	2
AFR0733	FRAME - 2.38" O.D. x 22.00"	2
AFR1180	FRAME - SCRAMBLE UP	1
AFR1185	FRAME - 40.60" x 11.25" x 8.00"	1
AFR1186	FRAME - 8.00" x 14.43"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	16
BAE0720	NUT - 1/2"-13 LOCK	32
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	16
BFC1500	SHEET - 19.14" x 53.74" x .75"	10
BFC1501	SHEET - 25.48" x 53.01" x .75"	1
BFC1502	SHEET - BRACKET COVER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

AC0002S - ACTIVO WILLOW CLIMBER w/ SCRAMBLE UP CLIMBER SM

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVO PLATE COVER	4
AAU0752	STAR HANDLE	8
ABC0737	BRACKET - 15.84" x 3.44" x .68"	1
ACL0250	LADDER - GLIDE	1
AFR1180	FRAME - SCRAMBLE UP	1
AFR1185	FRAME - 40.60" x 11.25" x 8.00"	1
AFR1186	FRAME - 8.00" x 14.43"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BFC1500	SHEET - 19.14" x 53.74" x .75"	1
BFC1501	SHEET - 25.48" x 53.01" x .75"	1
BFC1502	SHEET - BRACKET COVER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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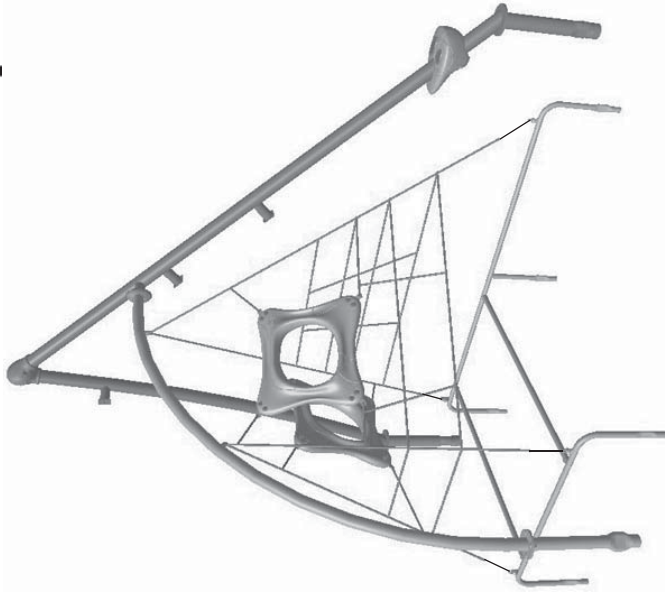
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Installation Instructions Playworld Systems® Models AC0005 and AC0005S Activo Portal In-Ground and Surface Mount



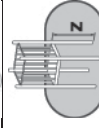
Assembly View (representative structure)

Model	Weight
ZZAC0005	204.1 lbs. (92,8 kg)
ZZAC0005S	141 lbs. (64,1 kg)

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time (in-ground): 6 man-hours
Installation Time (surface mount): 3 man-hours
Weight: (See the table)
Concrete Required: 0,43 cubic yard (0,35 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

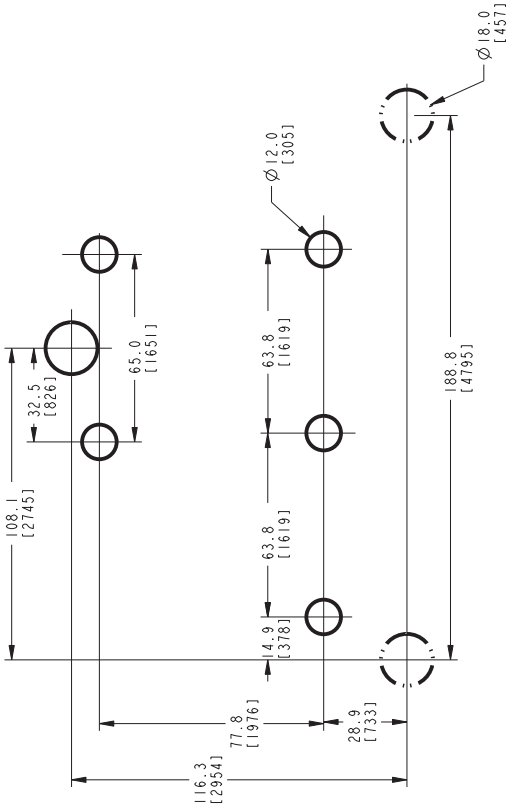
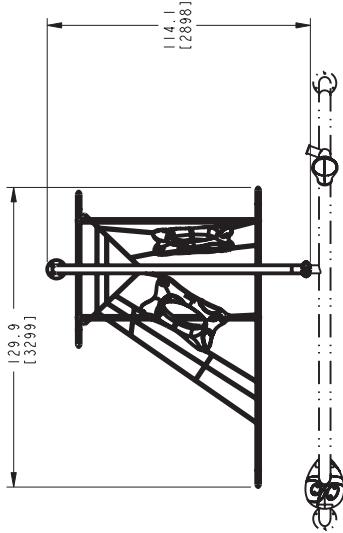
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

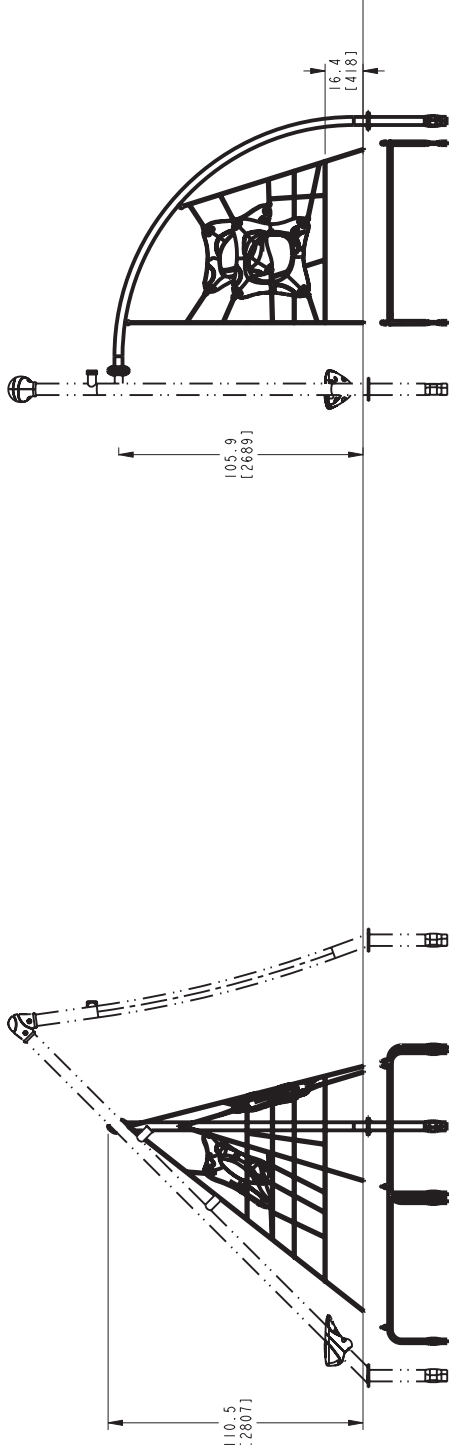
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



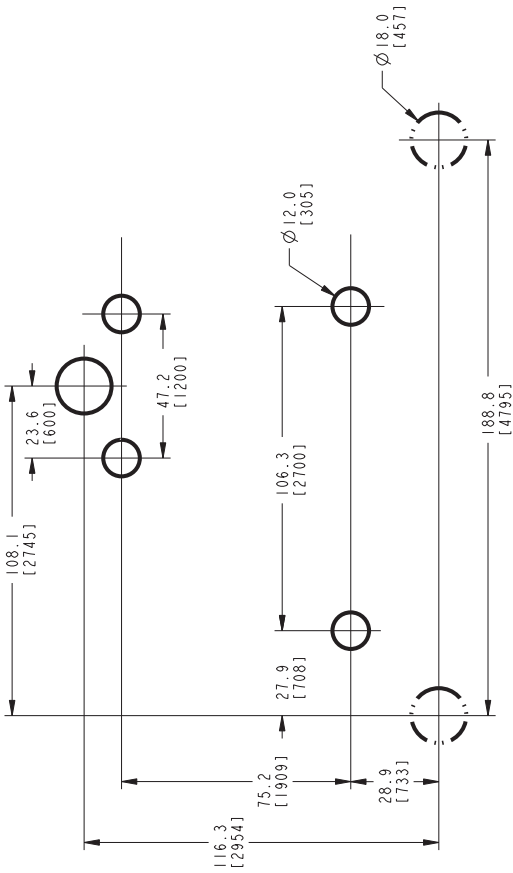
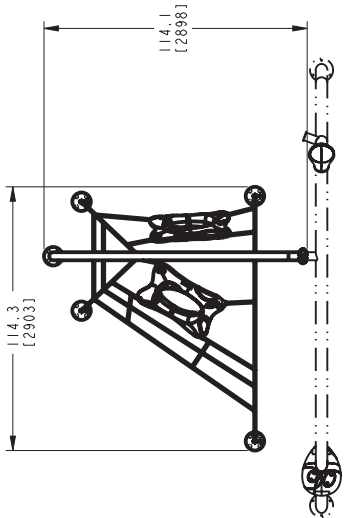
Elevation Views
ZZAC0005



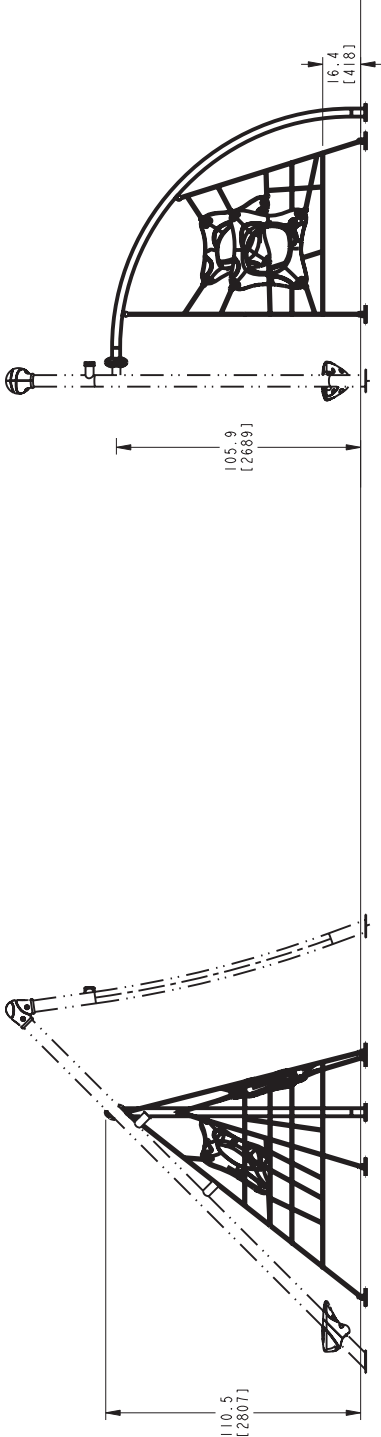
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram

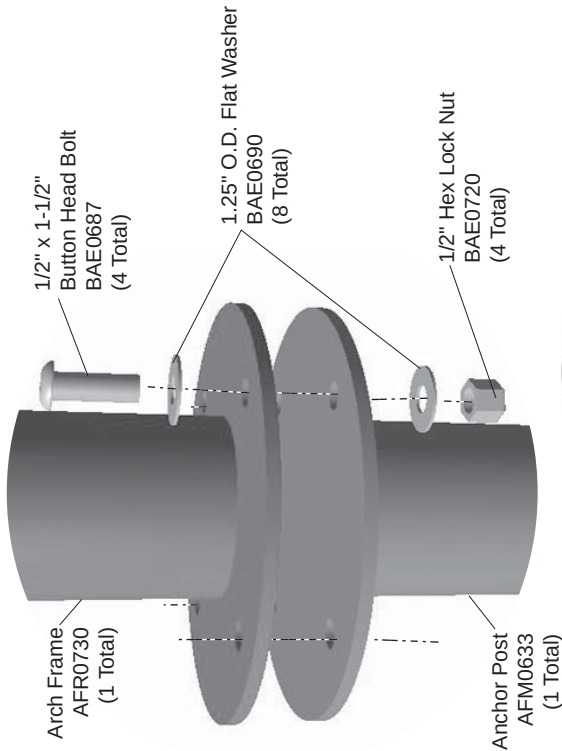


Elevation Views
ZZAC0005S



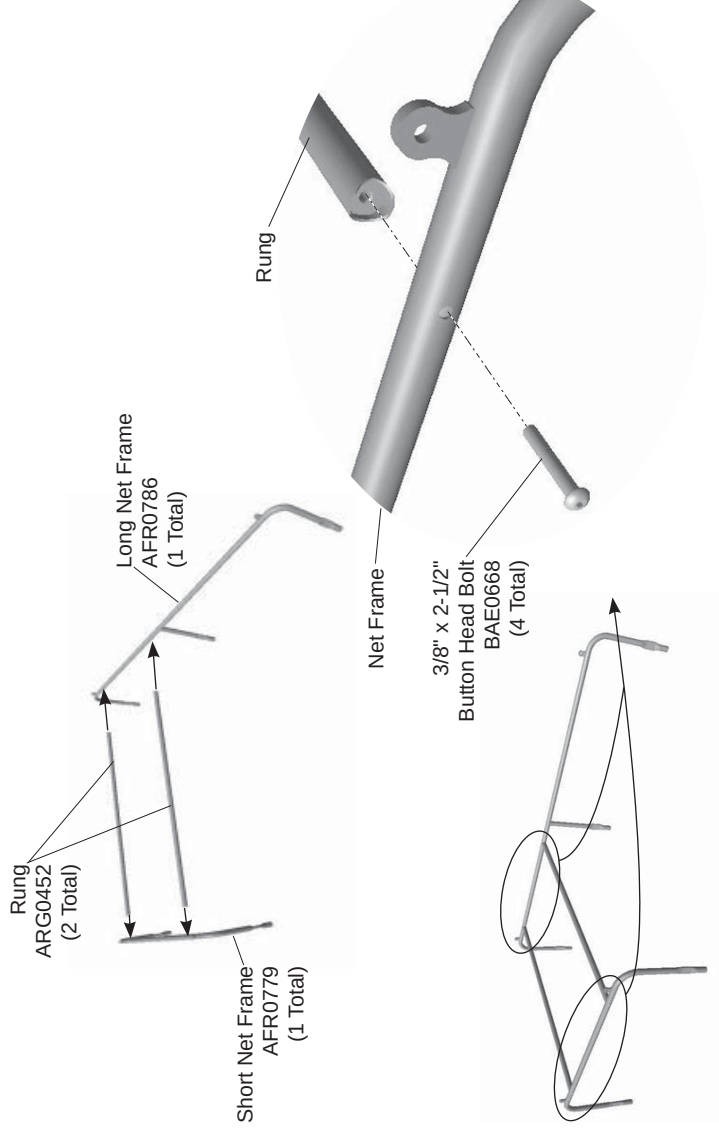
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

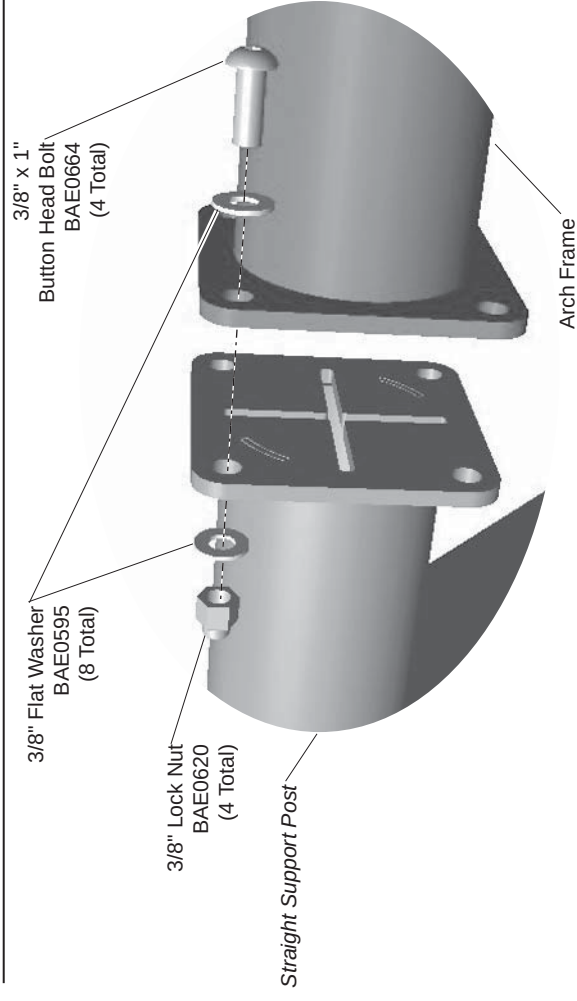
(in-ground model only)
Attach the anchor post to the arch frame.



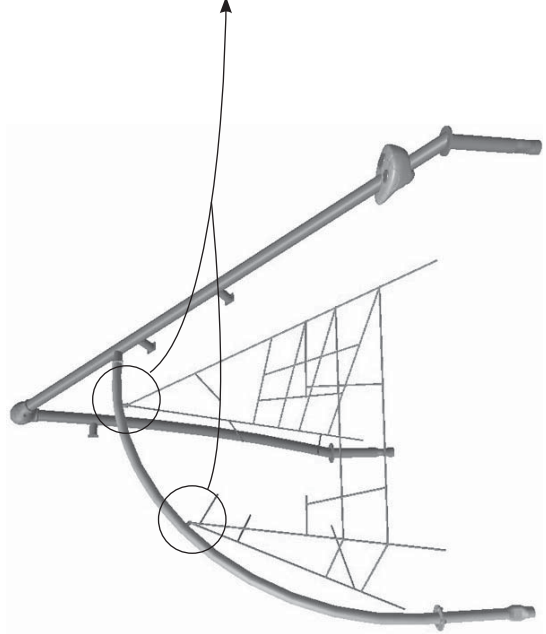
Detail B
Step 5

(in-ground model only)
Assemble the net frame.

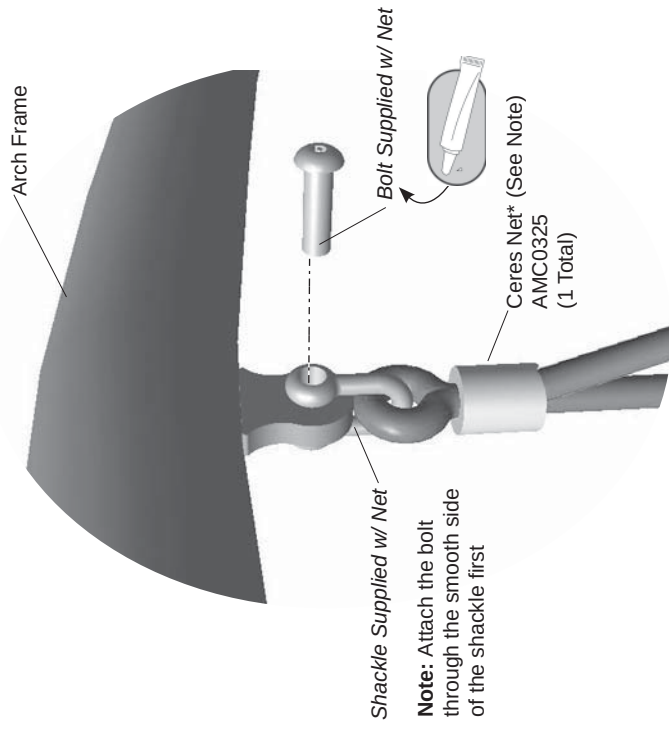
Installation Instructions



Detail C
Step 6
Attach the arch frame to the straight support post on the Active frame.

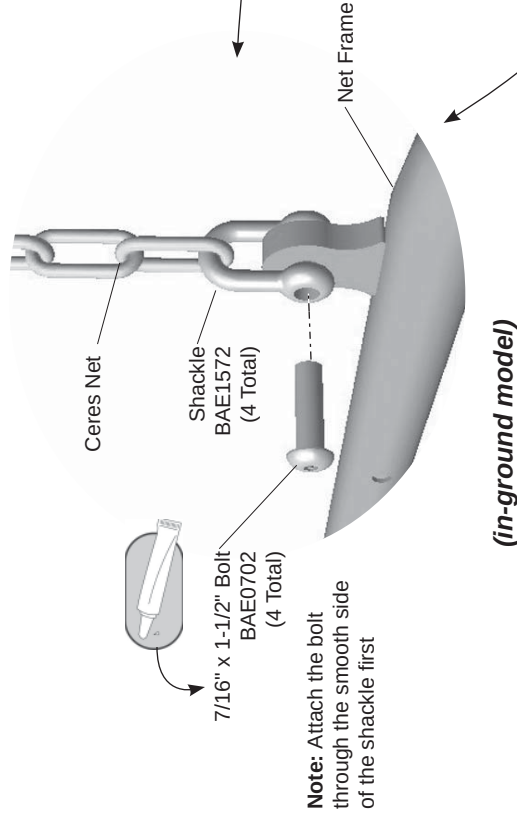
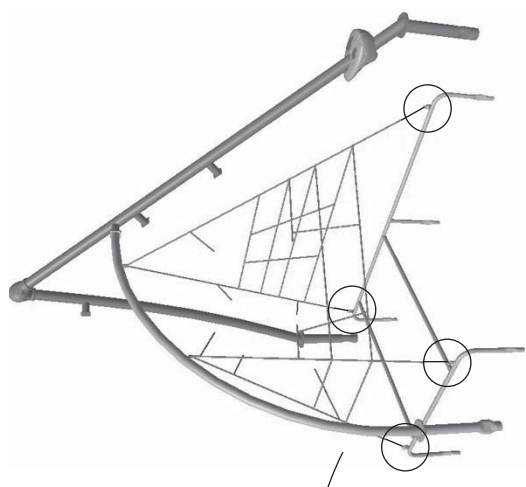


***Note:** Identify the two points on the net where two ropes come together to form the top of a triangle. Raise these two points up to the arch frame. Insert the shackles (that come with the net) around the tabs on the arch frame.

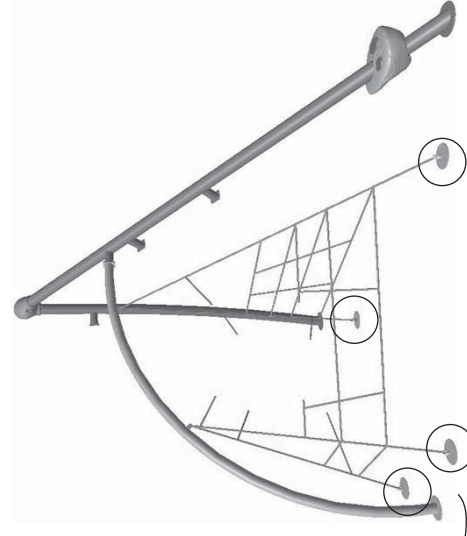
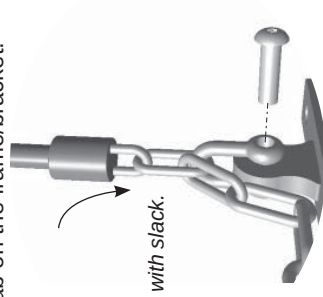
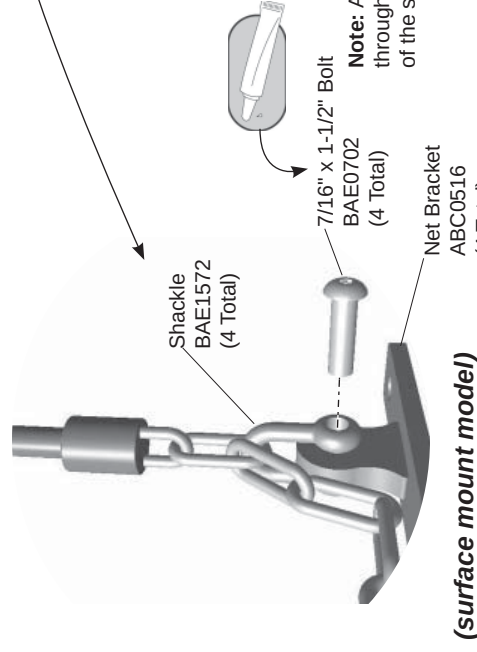


Detail D
Step 7
Attach the net to the arch frame.

Installation Instructions



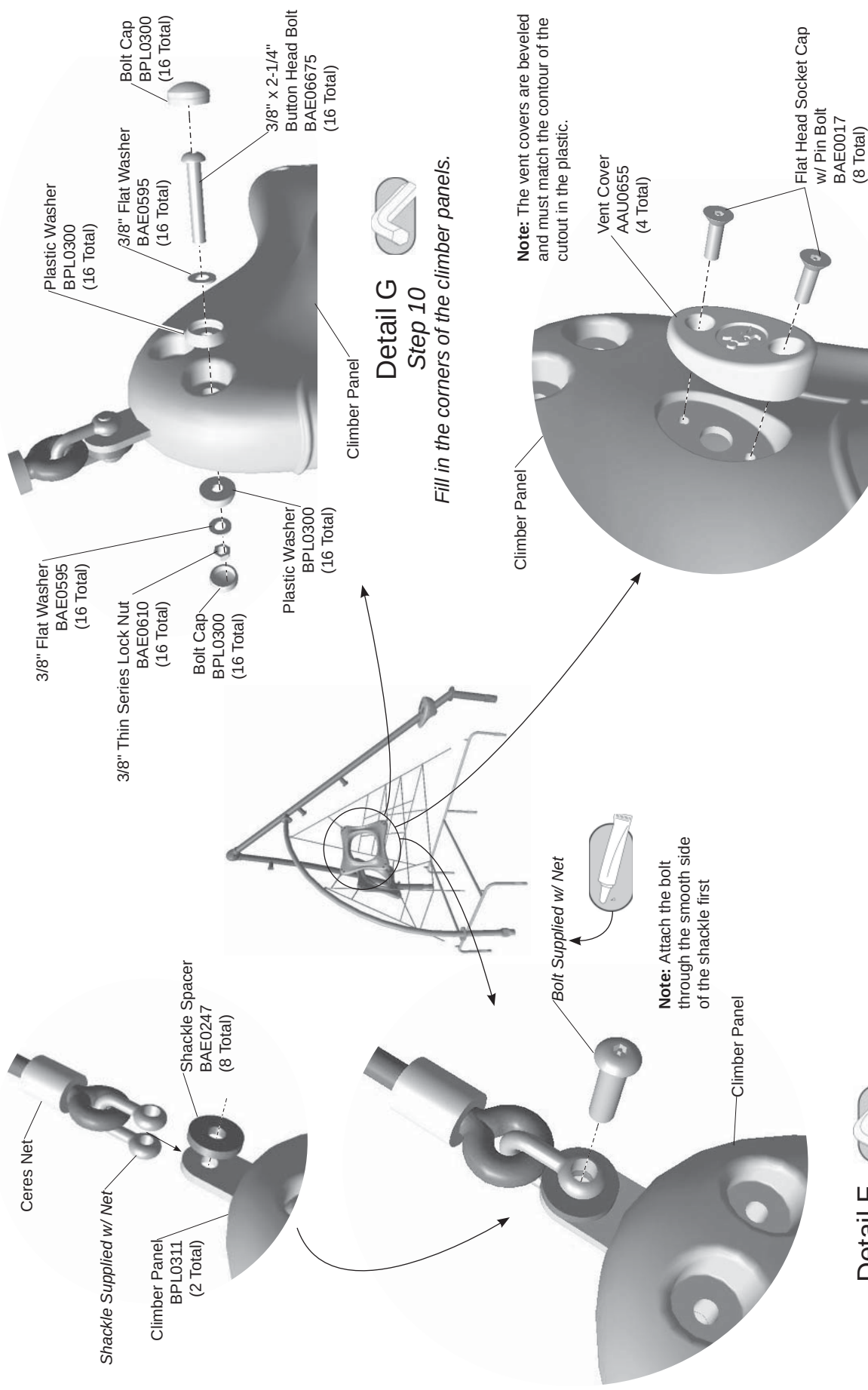
Important Note: Position each shackle through a link on a chain that will create some tension on the chain, and then over the tab on the frame/bracket.



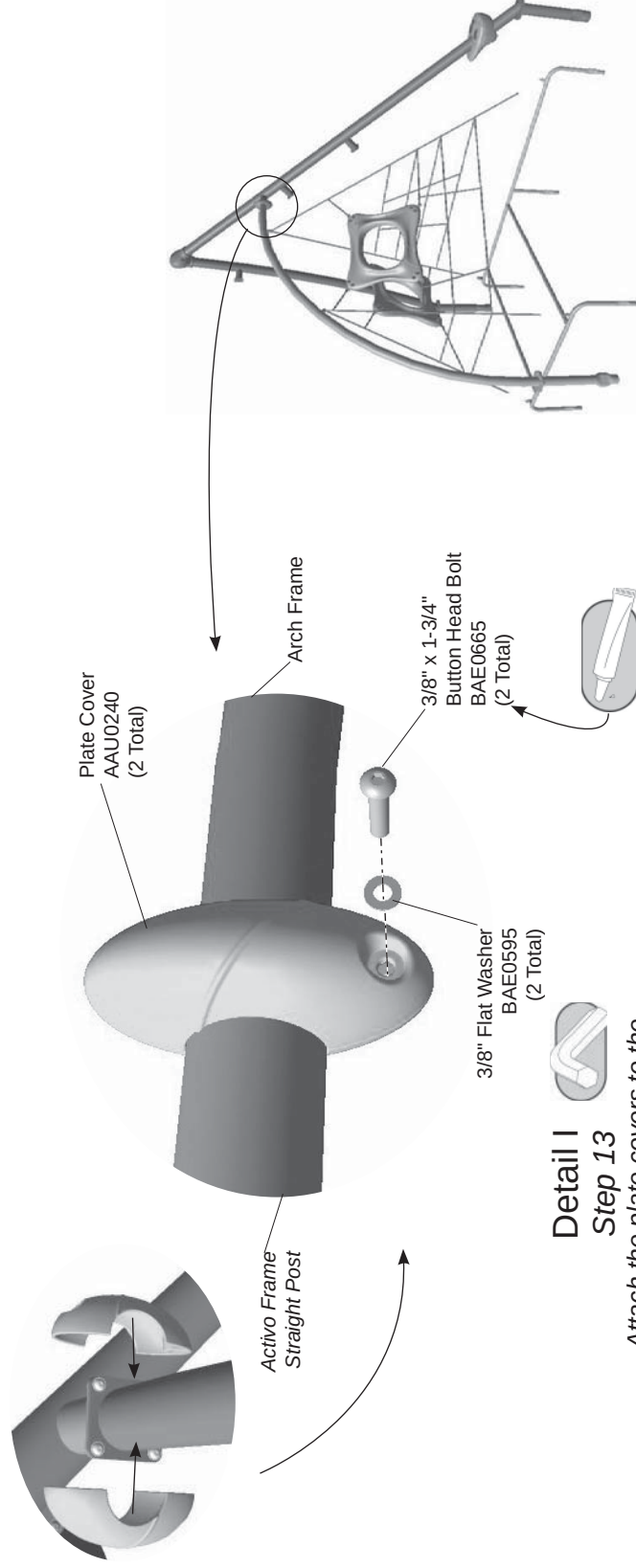
Detail E Step 8

Attach the net to the net frame or net brackets.

Installation Instructions



Installation Instructions



Detail I Step 13

Attach the plate covers to the Active frame and arch climber.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Activo Guidelines at the beginning of this document. Use the **Support Post Footing Detail (Arch Frame) and the 42" Component Footing Detail (Net Frame)** for the in-ground model. Also reference the **Footing Diagram** for footing placement.

Step 4 (in-ground model only): Attach the anchor post to the arch frame. See **Detail A**. Lay the arch frame on the ground near it's footing location. Position the anchor post against the bottom of the arch frame, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 5 (in-ground model only): Assemble the net frame. See **Detail B**. Lay the net frame pieces on the ground near it's footing locations and assemble as shown.

Step 6: Attach the arch frame to the Activo frame. See **Detail C**. Position the top of the arch frame against the Activo frame straight post, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 7: Attach the net to the arch frame. See **Detail D**. Lay out the net under the arch frame. Identify the two points on the net where two ropes come together to form the top of a triangle. Raise these two points up to the arch frame. Insert the shackles (that come with the net) around the tabs on the arch frame. Attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 8: Attach the net to the net frame (in-ground model) or the net brackets (surface mount model). See **Detail E and the appropriate model**. Extend the four free ends of the net down to the net frame or brackets. Insert the shackles around the tabs on the net frame, or brackets, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Important Note: Position each shackle through a link on a chain that will create some tension on the chain, and then over the tab on the frame/bracket.

Step 9: Attach the climber panels to the Ceres net. See **Detail F**. Raise the climber panels up to the net. Align a shackle spacer with the tabs on each corner of the climber panels. Remove the bolt from each shackle and insert the shackle around the shackle spacer and climber panel. Attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 10: Fill the corners of the panels. See **Detail G**. Attach the hardware and bolt caps to the corners of the panel as shown. Fully tighten the connections according to the tightening torque specifications.

Step 11: Attach a vent cover to each climber panel. See **Detail H**. Insert a vent cover into the appropriate recessed area in each climber panel and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Note: The vent covers are beveled and must match the contour of the cutout in the climber panel.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 13: Attach the plate covers to the Activo frame and arch frame. See **Detail**

I. Position a pair covers over the connected mounting plates of the frames, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Bill of Materials

AC0005 - ACTIVO PORTAL

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVE PLATE COVER	2
AAU0655	CASTING - VENT COVER	4
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1
AFR0730	FRAME - 9' ARCH w/2 TABS	1
AFR0779	FRAME - AMC0325 NET	1
AFR0786	FRAME - AMC0325 NET	1
AMC0325	ZELO/CERES NET	1
ARG0452	RUNG - 1.66" O.D. x 76.87"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0017	BOLT - 1/4"-20 x 3/4" FLAT HD SOCKET CAP w/PIN	8
BAE0247	SHACKLE SPACER	8
BAE0595	WASHER - 3/8" SAE FLAT	42
BAE0610	NUT - 3/8"-16 THIN LOCK	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	16
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	8
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	4
BAE0720	NUT - 1/2"-13 LOCK	4
BAE1572	7/16" BOLT SHACKLE	4
BPL0300	CAP - 3/8" BOLT	32
BPL0311	ACTIVE CLIMBER PANEL	2

AC0005S - ACTIVO PORTAL SM

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVE PLATE COVER	2
AAU0655	CASTING - VENT COVER	4
ABC0516	BRACKET - SINGLE ROPE ATTACHMENT	4
AFR0730	FRAME - 9' ARCH w/2 TABS	1
AMC0325	ZELO/CERES NET	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0017	BOLT - 1/4"-20 x 3/4" FLAT HD SOCKET CAP w/PIN	8
BAE0247	SHACKLE SPACER	8
BAE0595	WASHER - 3/8" SAE FLAT	42
BAE0610	NUT - 3/8"-16 THIN LOCK	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	16
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	4
BAE1572	7/16" BOLT SHACKLE	4
BPL0300	CAP - 3/8 BOLT	32
BPL0311	ACTIVE CLIMBER PANEL	2



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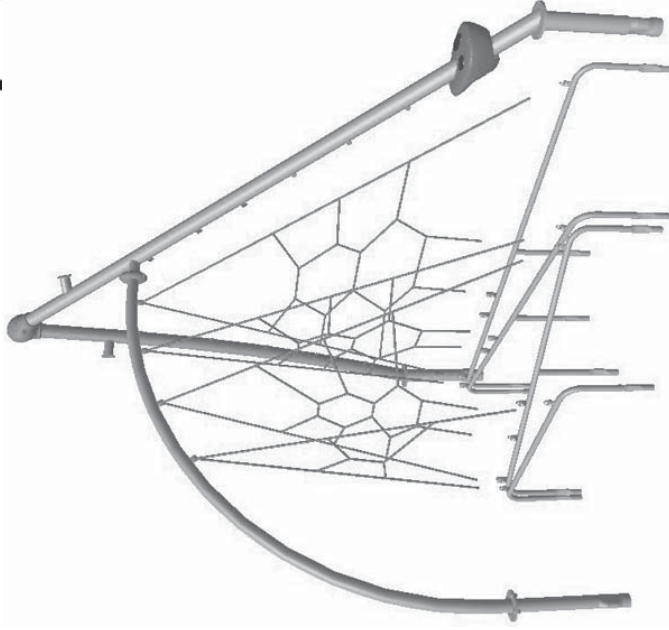
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Installation Instructions Playworld Systems® Models AC0006 and AC0006S Activo Network In-Ground and Surface Mount



Assembly View (representative structure)

Model	Weight
ZZAC0006	242 lbs. (110 kg)
ZZAC0006S	190.7 lbs. (86,7 kg)

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time (in-ground): 7 man-hours
Installation Time (surface mount): 2.5 man-hours
Weight: (See the table)
Concrete Required: 0.61 cubic yard (0,50 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

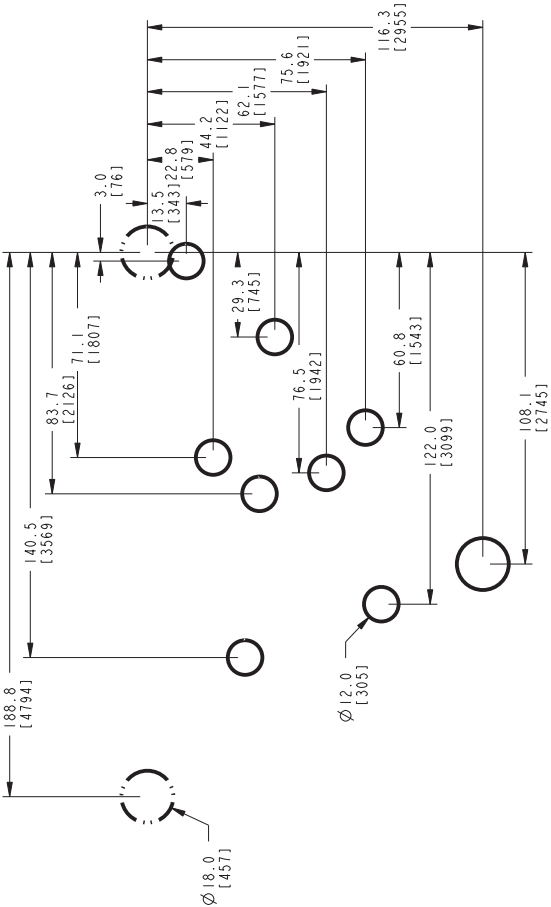
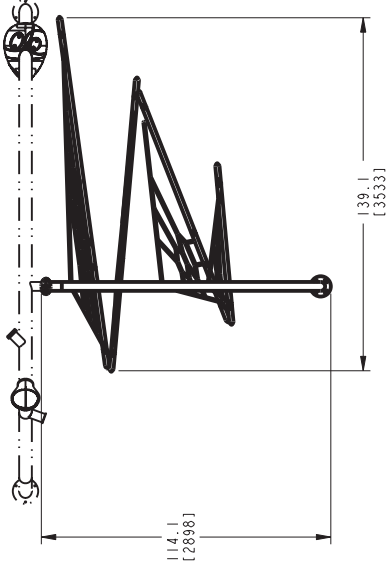
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

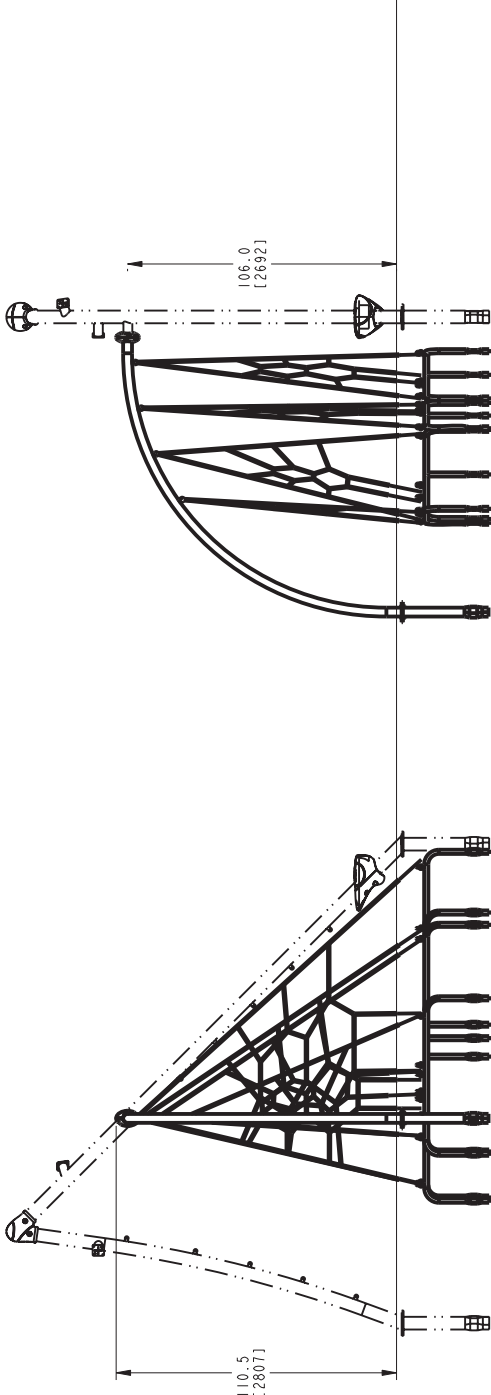
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

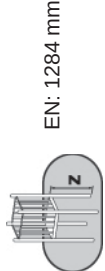
Top View



Footing Diagram

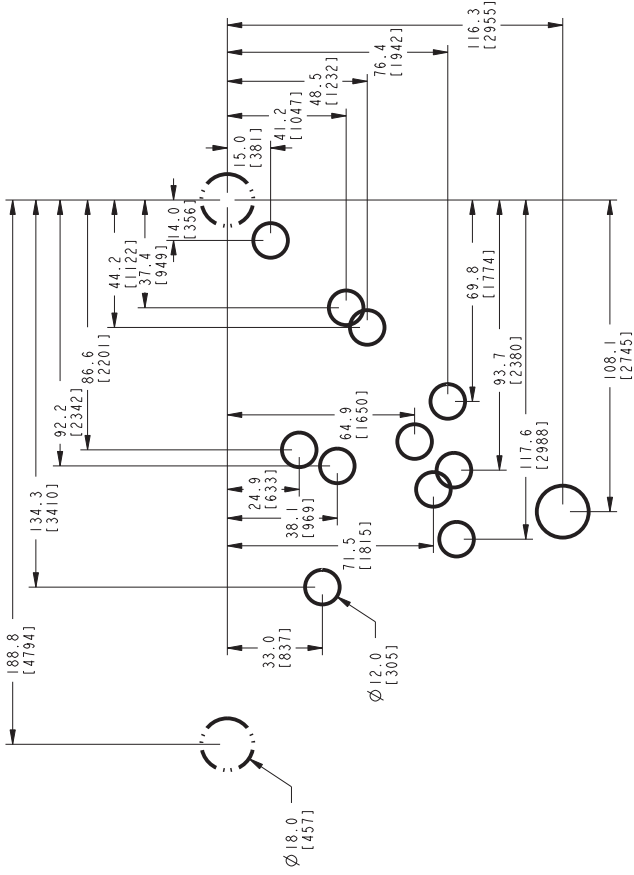
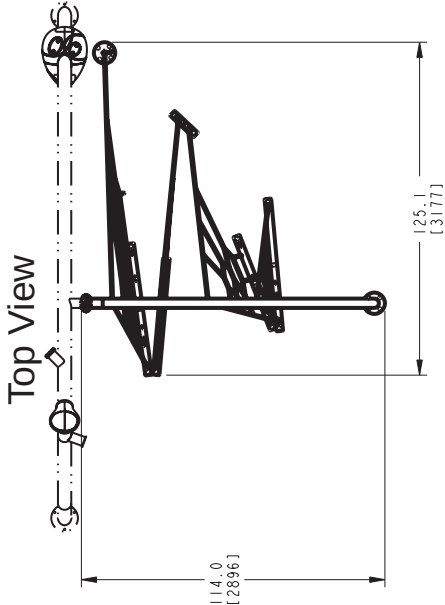


Elevation Views
ZZAC0006

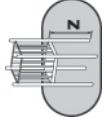
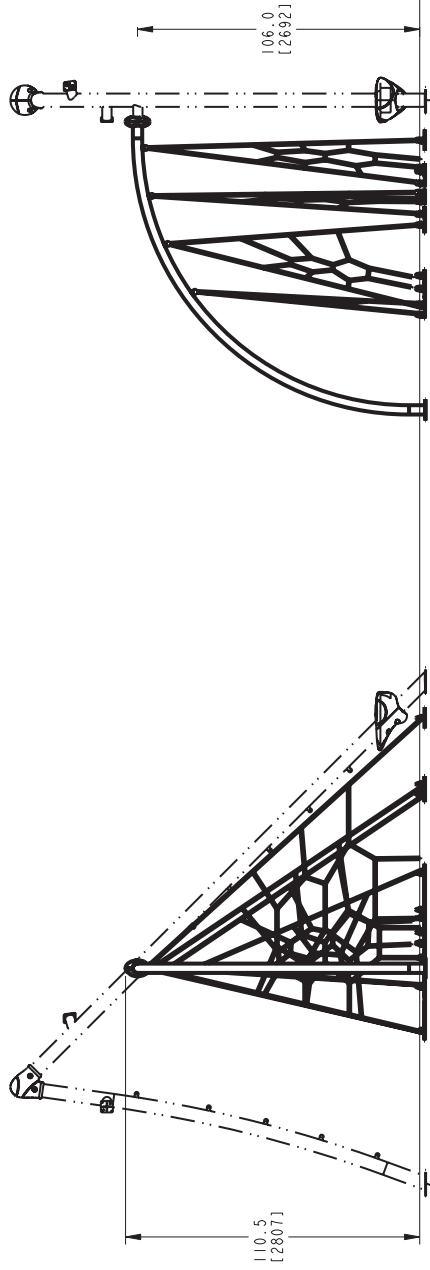


Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



Footing Diagram



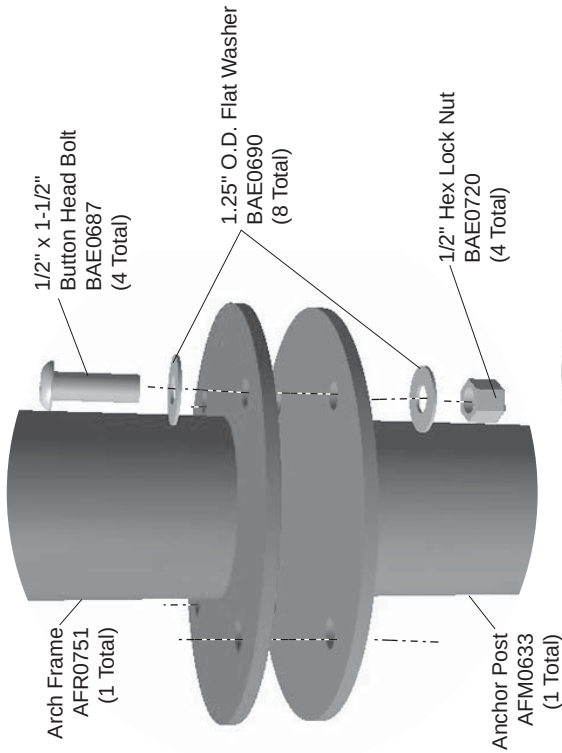
EN: 1284 mm

Elevation Views
ZZAC0006S



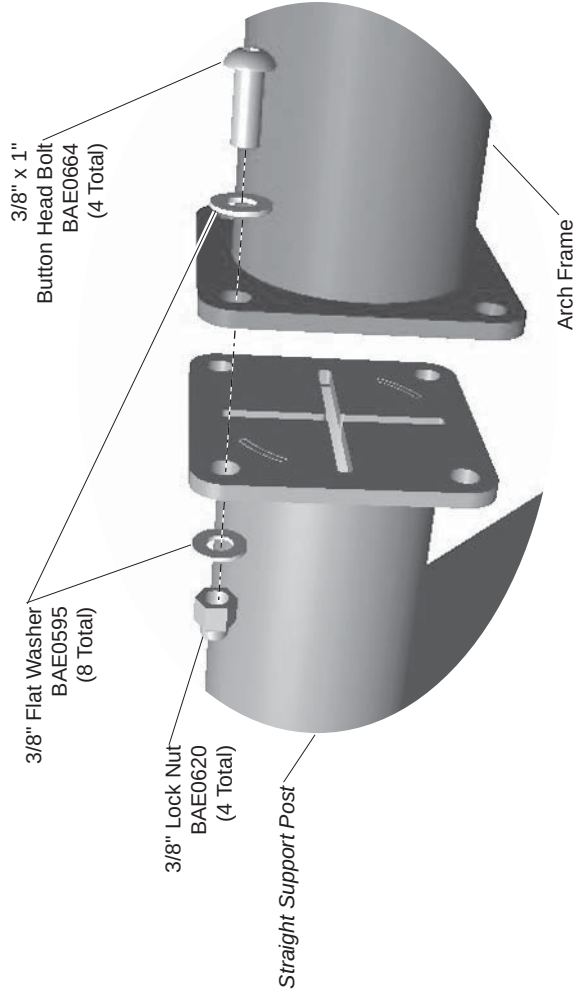
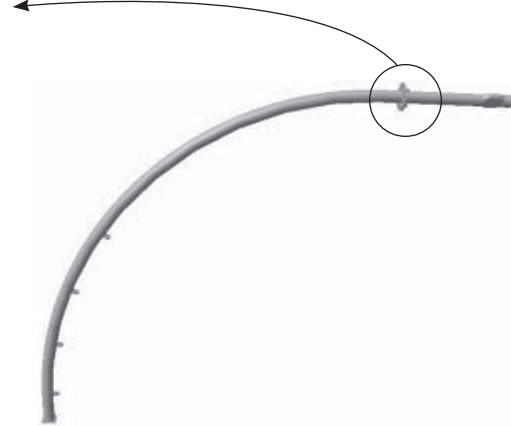
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



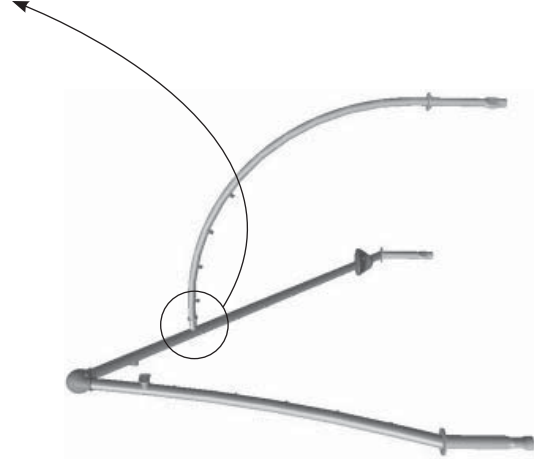
Detail A
Step 4

(in-ground model only)
Attach the anchor post to the arch frame.

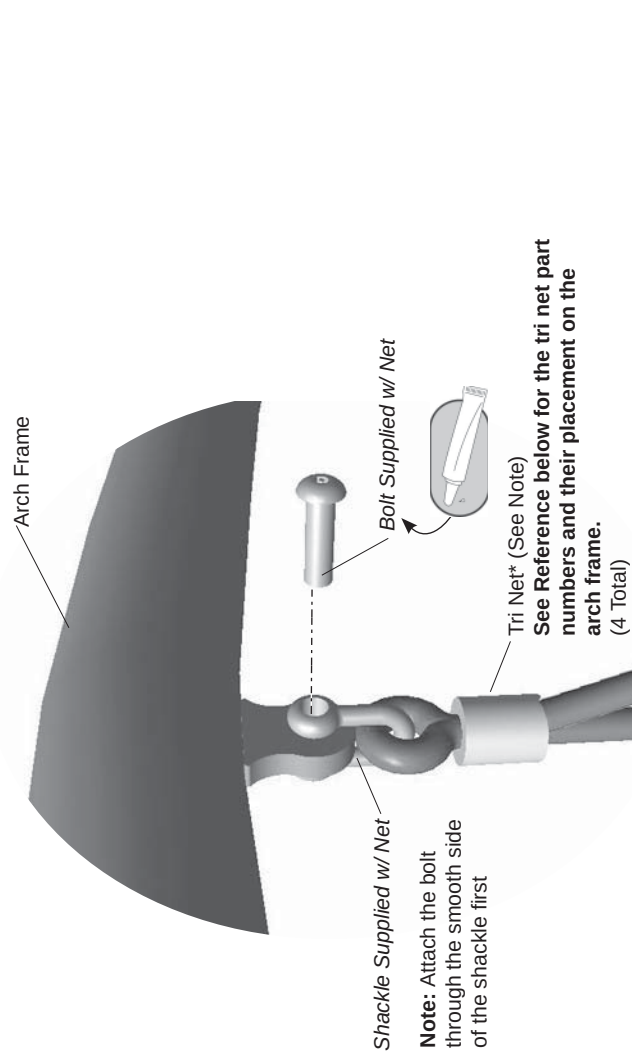


Detail B
Step 5

Attach the arch frame to the straight support post on the Active frame.

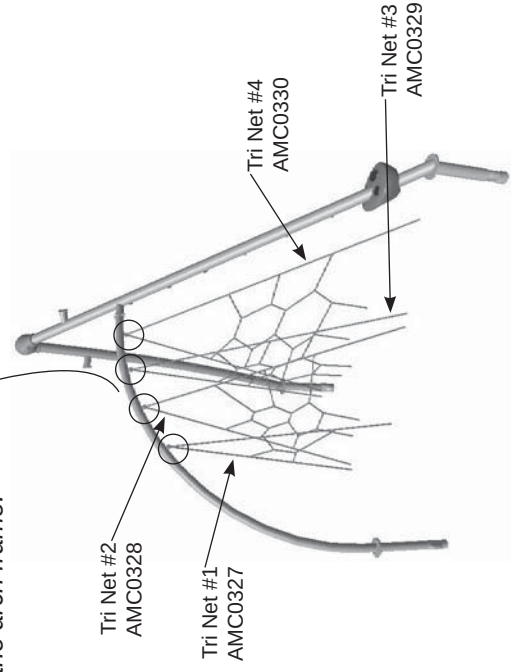


Installation Instructions



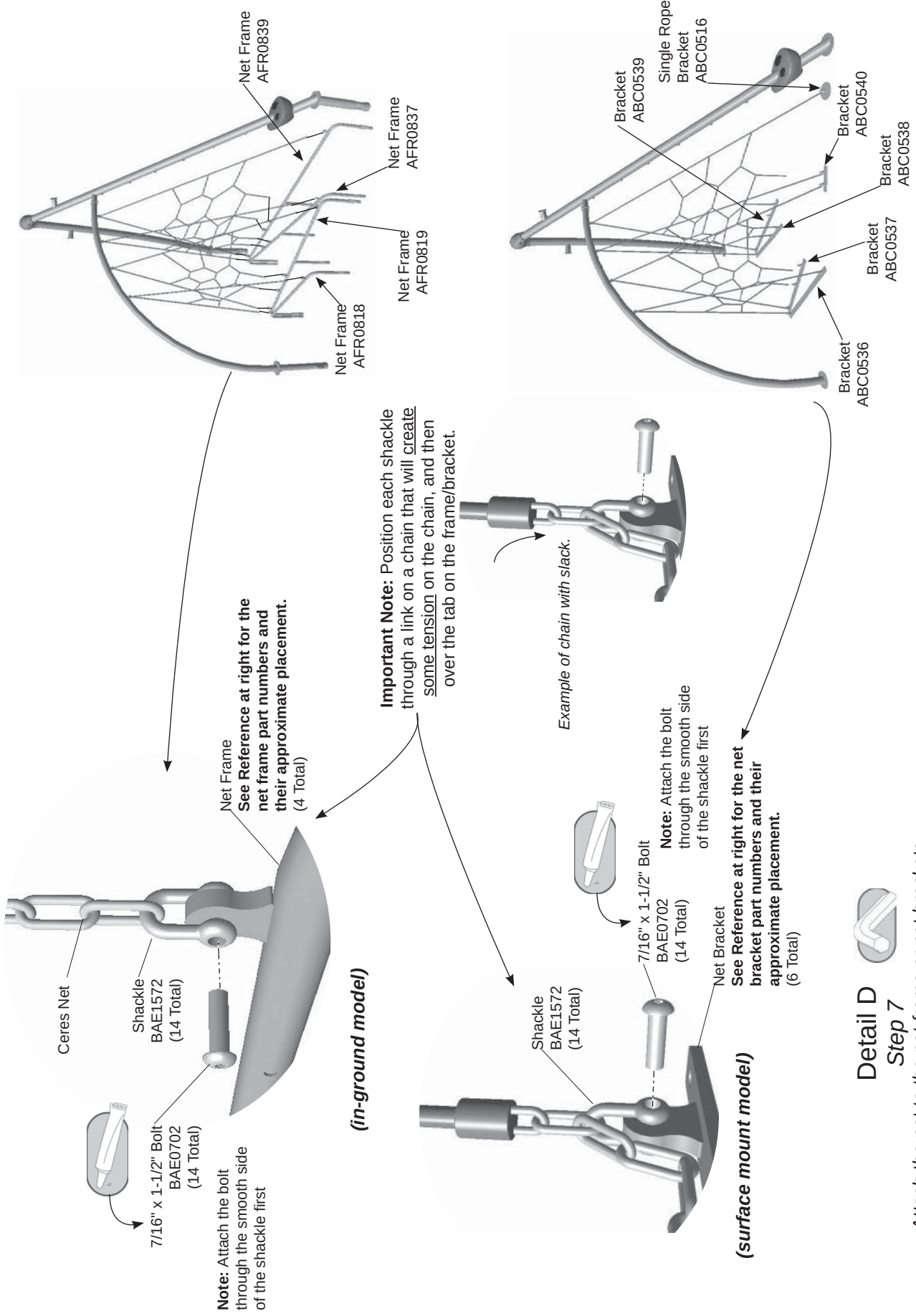
Detail C Step 6

Attach the tri nets to the arch frame.



***Note:** Identify the point on each net where two ropes come together to form the top of a triangle. Raise each one of these points up to the arch frame. Insert the shackles (that come with the net) around the tabs on the arch frame.

Installation Instructions

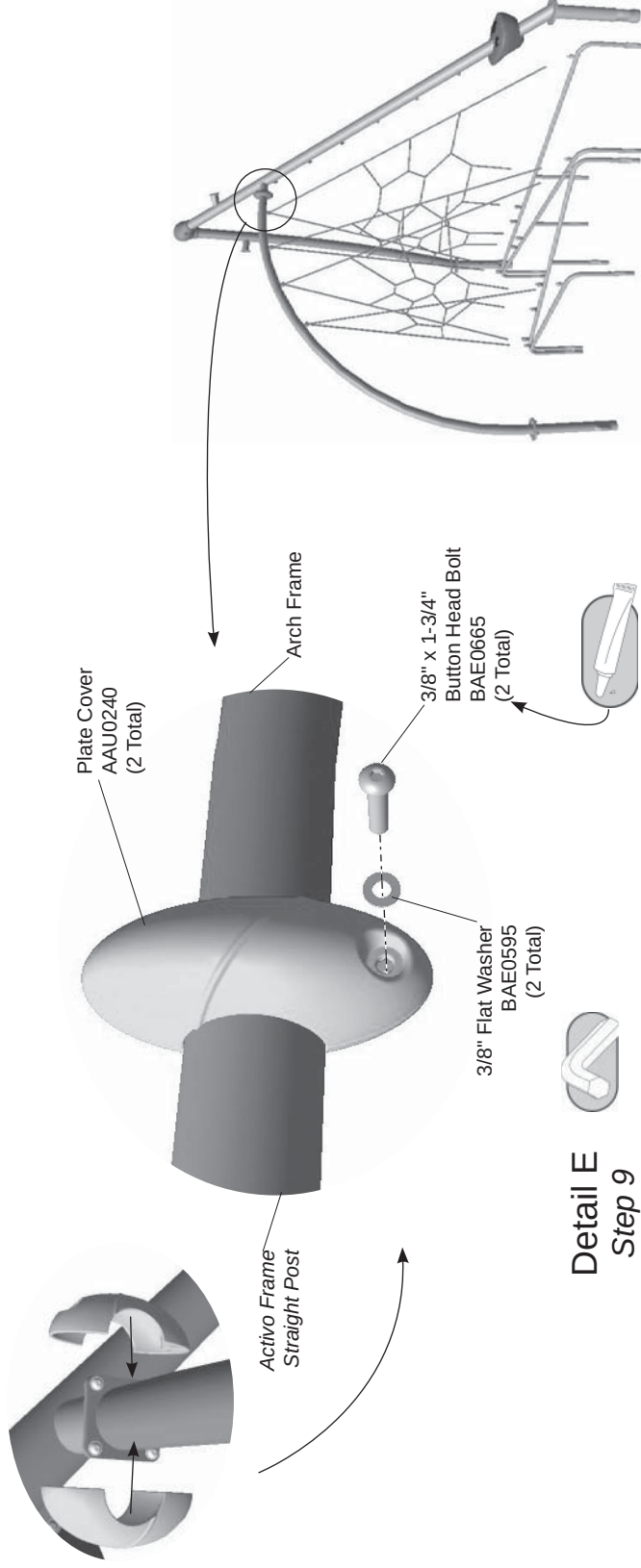


Detail D

Step 7

Attach the net to the net frame or net brackets.

Installation Instructions



Detail E Step 9

Attach the plate covers to the
Active frame and arch climber.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Activo Guidelines at the beginning of this document. Use the **Support Post Footing Detail (Arch Frame)** and the **42" Component Footing Detail (Net Frames)** for the in-ground model. Also reference the **Footing Diagram** for footing placement.

Step 4 (in-ground model only): Attach the anchor post to the arch frame. See **Detail A.** Lay the arch frame on the ground near it's footing location. Position the anchor post against the bottom of the arch frame, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 5: Attach the arch frame to the Activo frame. See **Detail B.** Position the top of the arch frame against the Activo frame straight post, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 6: Attach the nets to the arch frame. See **Detail C.** Lay out the nets under the arch frame. See the detail reference for placement of the nets. Identify the point on each net where two ropes come together to form the top of a triangle. Raise these two points up to the arch frame. Insert the shackles (that come with the net) around the tabs on the arch frame. Attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 7: Attach the nets to the net frames (in-ground model) or the net brackets (surface mount model). See **Detail D and the appropriate model.** Extend the free ends of each net down to the appropriate net frame or brackets. Insert the shackles around the tabs on the net frame, or brackets, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Important Note: Position each shackle through a link on a chain that will create some tension on the chain, and then over the tab on the frame/bracket.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Step 9: Attach the plate covers to the Activo frame and arch frame. See **Detail E.** Position a pair covers over the connected mounting plates of the frames, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Bill of Materials

AC0006 - ACTIVO NETWORK

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVE PLATE COVER	2
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1
AFR0751	FRAME - 9' ARCH w/4 TABS	1
AFR0818	FRAME - AMC0327 NET	1
AFR0819	FRAME - AMC0328 NET	1
AFR0837	FRAME - AMC0329 NET	1
AFR0839	FRAME - AMC0330 NET	1
AMC0327	TRI-NET #1	1
AMC0328	TRI-NET #2	1
AMC0329	TRI-NET #3	1
AMC0330	TRI-NET #4	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	8
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	14
BAE0720	NUT - 1/2"-13 LOCK	4
BAE1572	7/16" BOLT SHACKLE	14

AC0006S - ACTIVO NETWORK SM

PART NO.	DESCRIPTION	QTY.
AAU0240	ACTIVE PLATE COVER	2
ABC0516	BRACKET - SINGLE ROPE ATTACHMENT	1
ABC0536	BRACKET - 49.86" x 2.38"	1
ABC0537	BRACKET - 37.64" x 2.38"	1
ABC0538	BRACKET - 43.95" x 2.38"	1
ABC0539	BRACKET - 49.85" x 2.38"	1
ABC0540	BRACKET - 12.00" x 2.38"	1
AFR0751	FRAME - 9' ARCH w/4 TABS	1
AMC0327	TRI-NET #1	1
AMC0328	TRI-NET #2	1
AMC0329	TRI-NET #3	1
AMC0330	TRI-NET #4	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	14
BAE1572	7/16" BOLT SHACKLE	14



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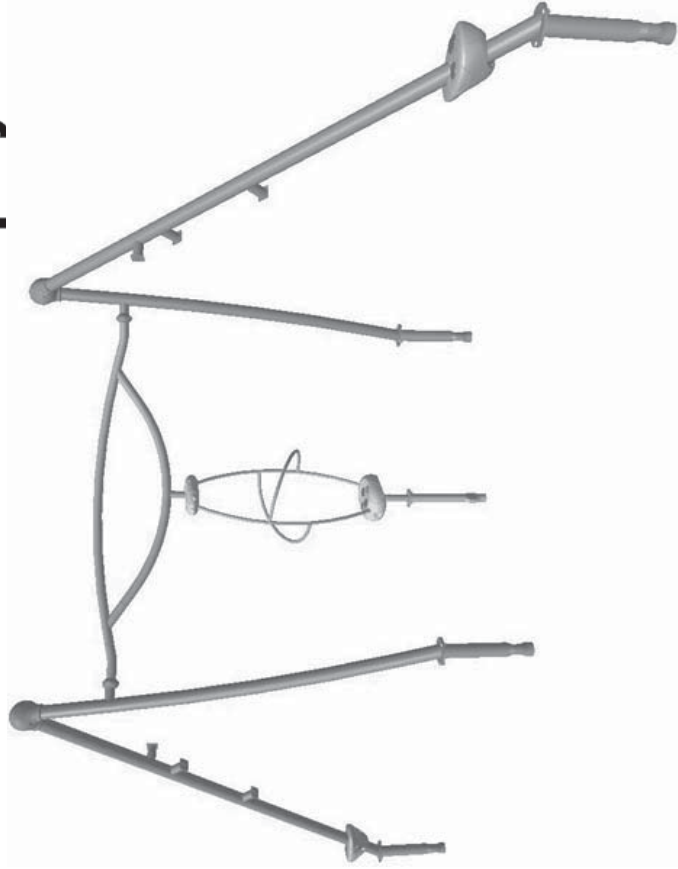
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Assembly View (representative structure)

Model	*Weight
ZZAC0011	209.1 lbs. (95 kg)
ZZAC0011S	195.8 lbs. (89 kg)

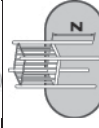
*Weights are approximate for determining manpower.

Installation Instructions Playworld Systems® Models AC0011 and AC0011S Activo Twirl Connector In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time (in-ground): 2 man-hours
Installation Time (surface mount): 1.5 man-hours
Weight: (See the table)
Concrete Required: 0.13 cubic yard (0.10 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

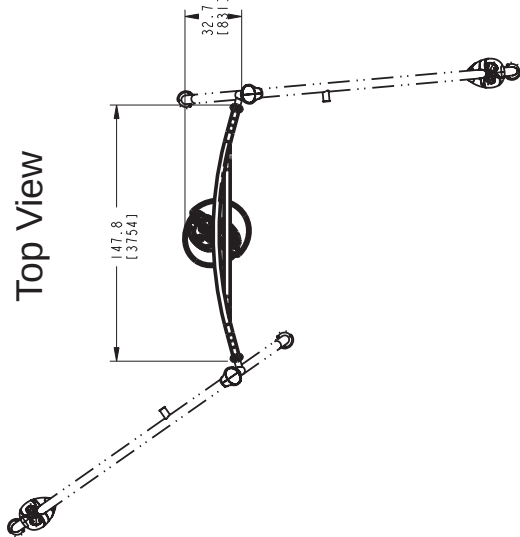
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

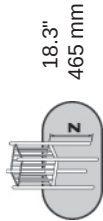
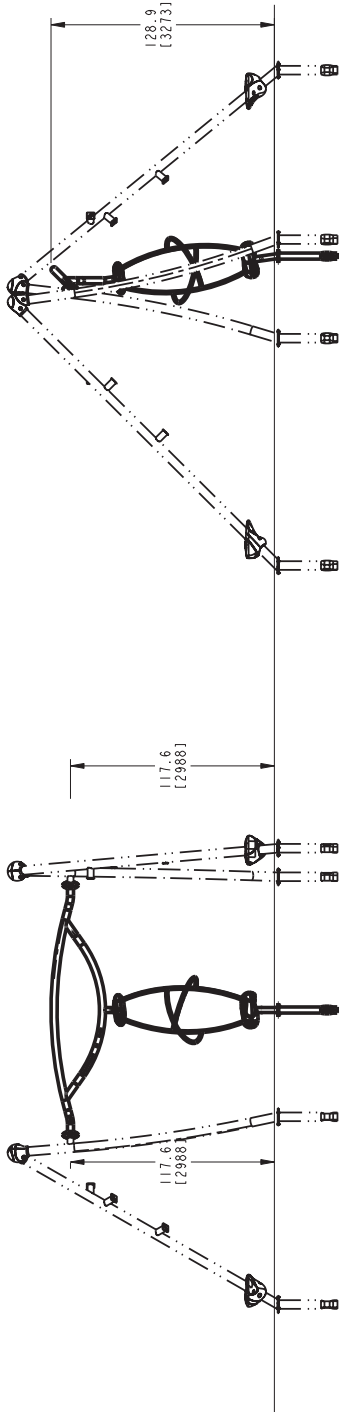
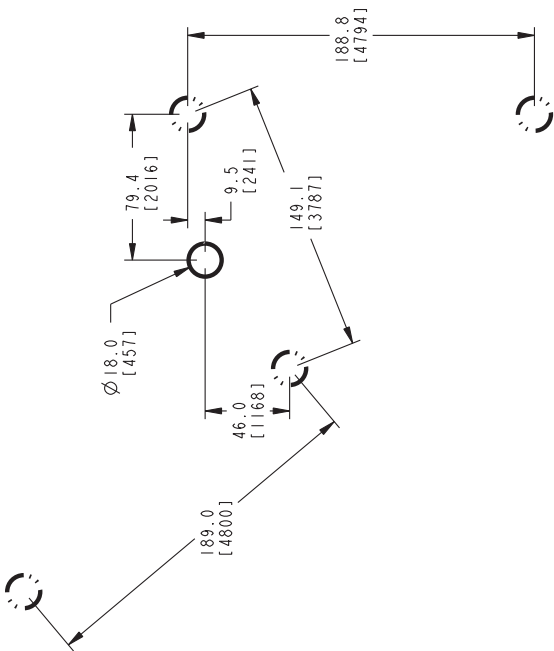
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram

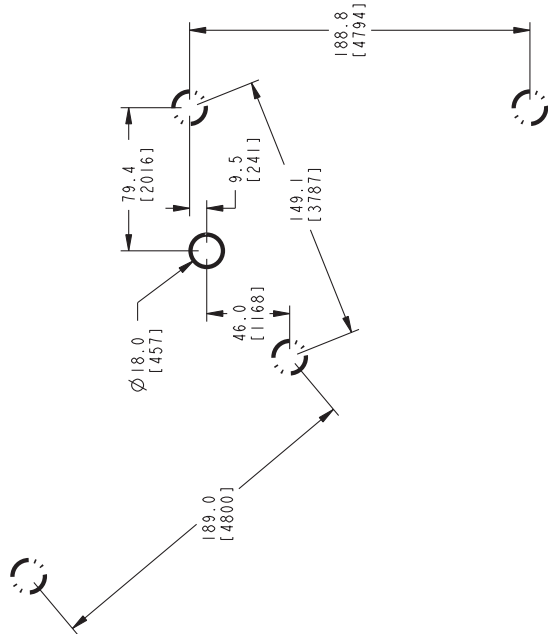
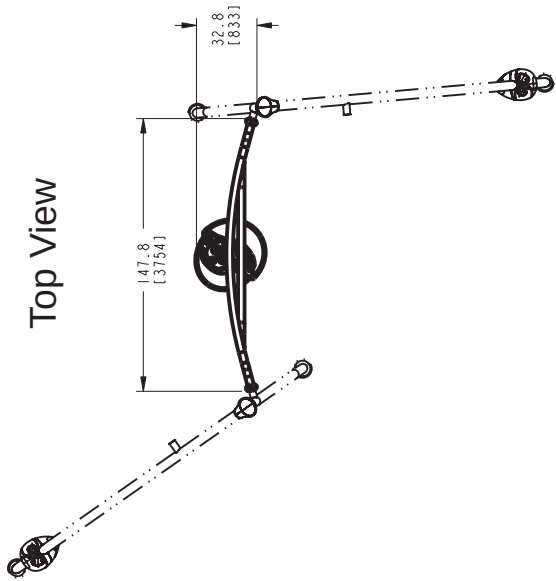


Elevation Views
ZZAC0011

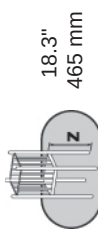
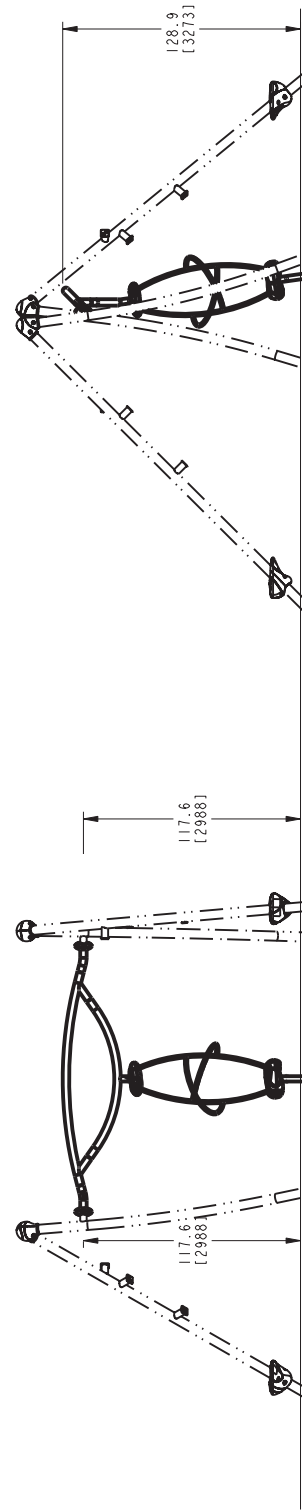


Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



Footing Diagram

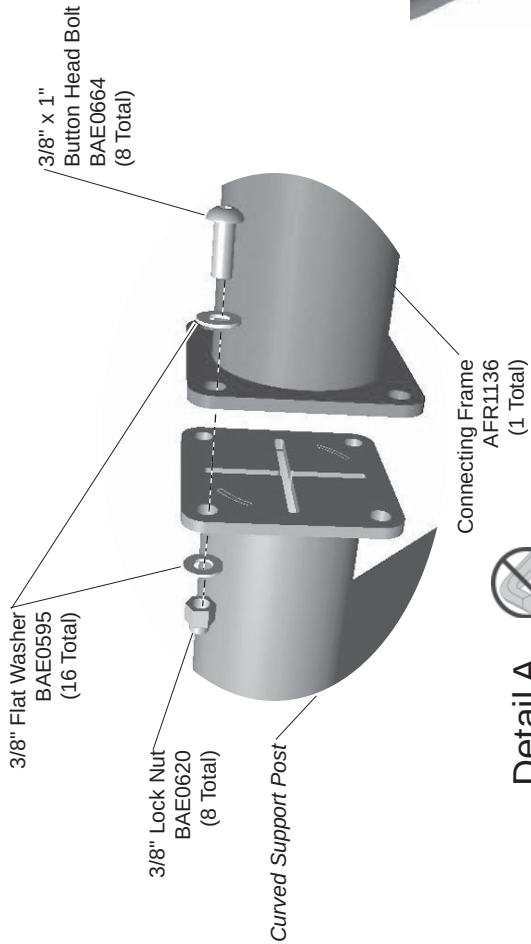


Elevation Views
ZZAC0011S



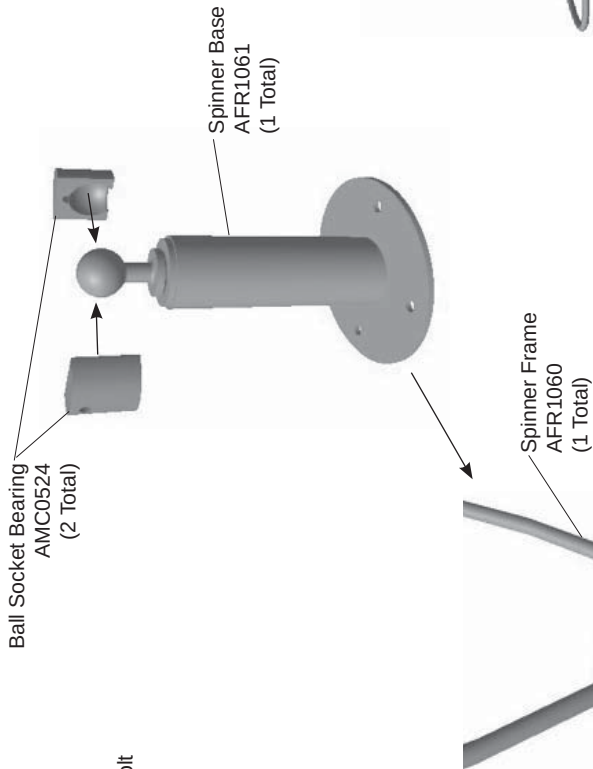
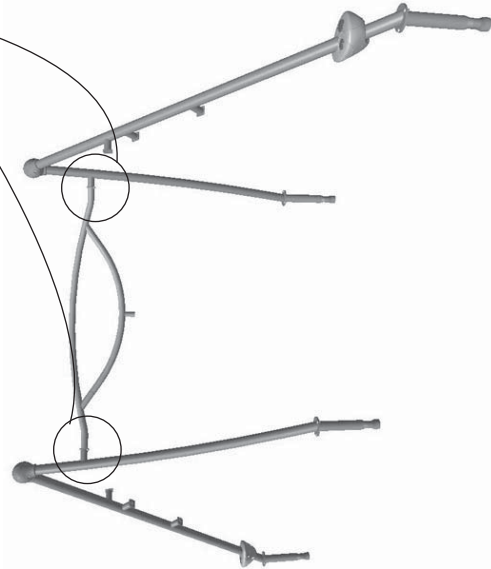
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



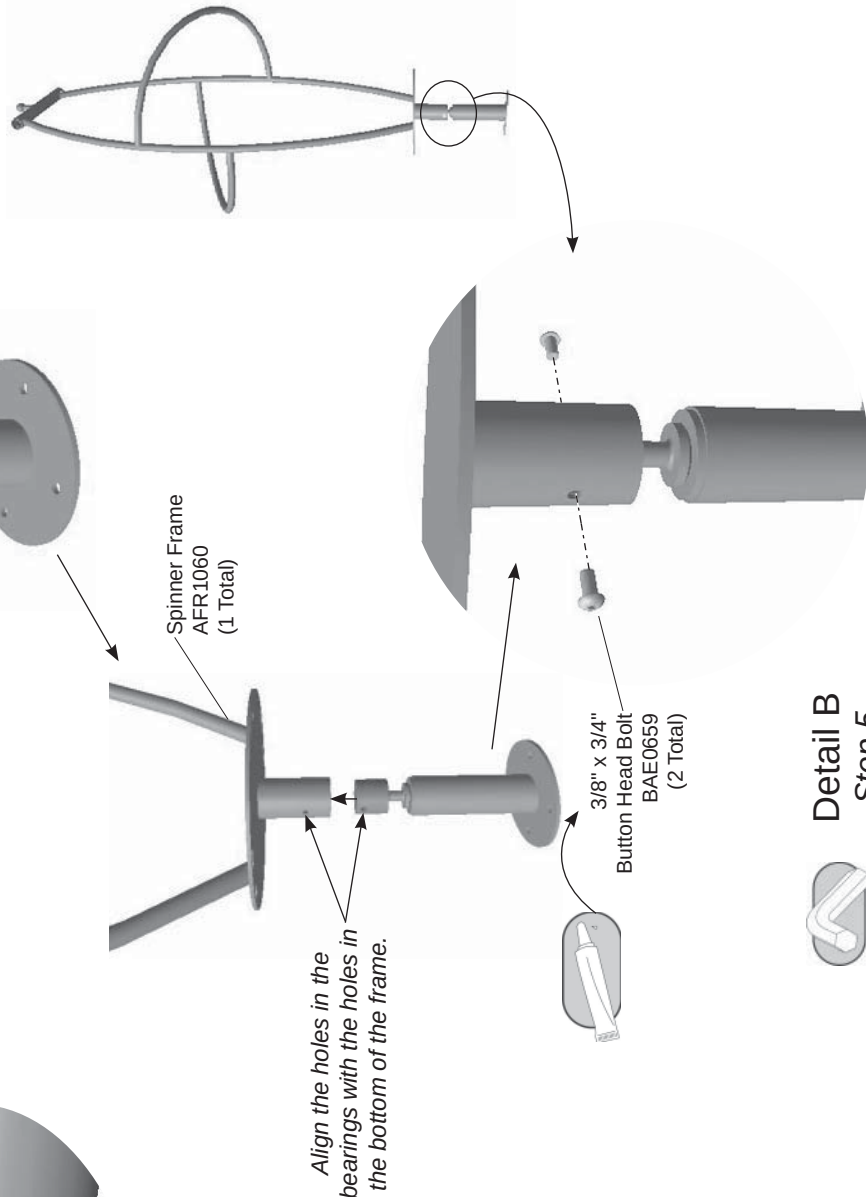
Detail A
Step 4

Attach the connecting frame to the curved support posts on the Active frames.

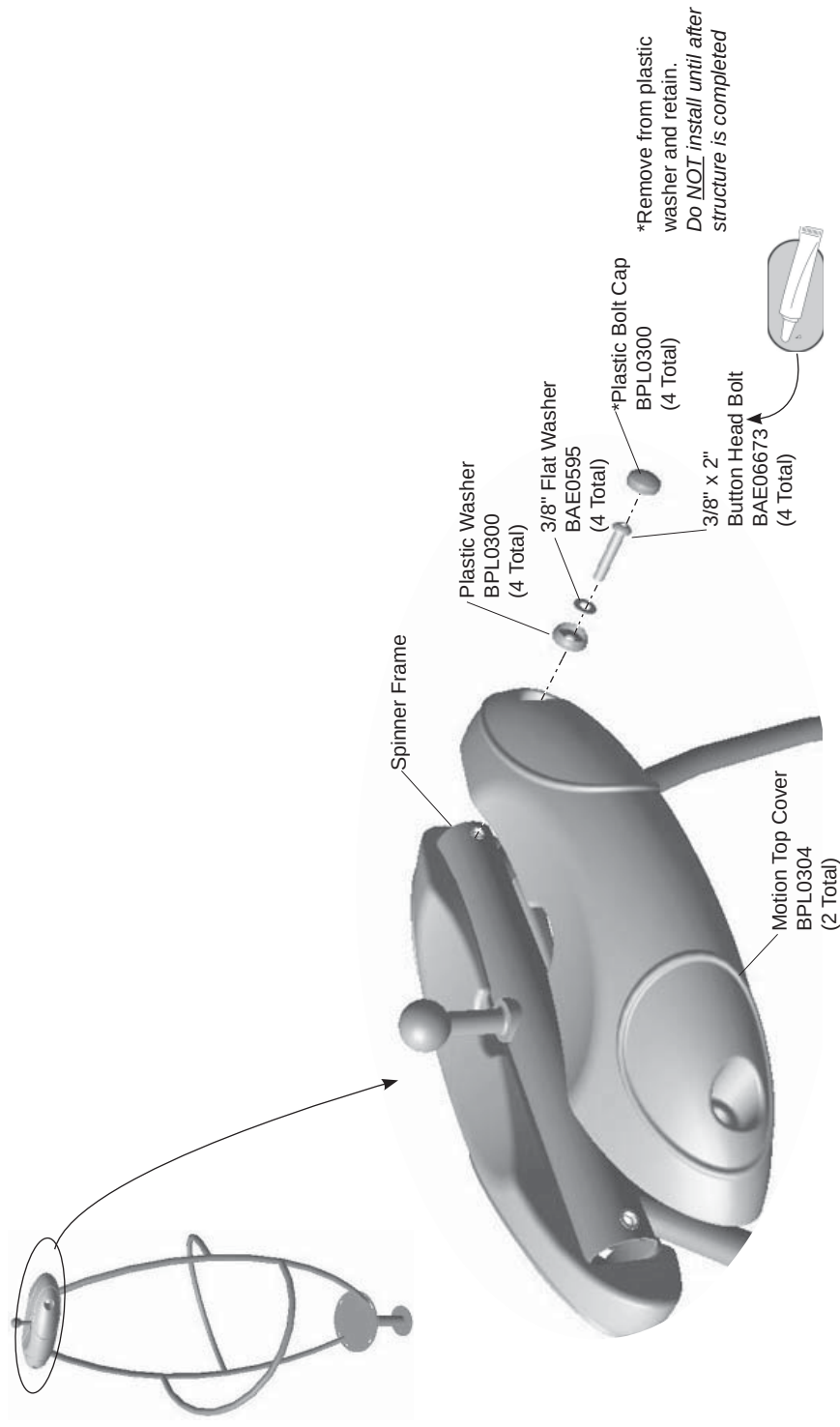


Detail B
Step 5

Attach the spinner base to the spinner frame.

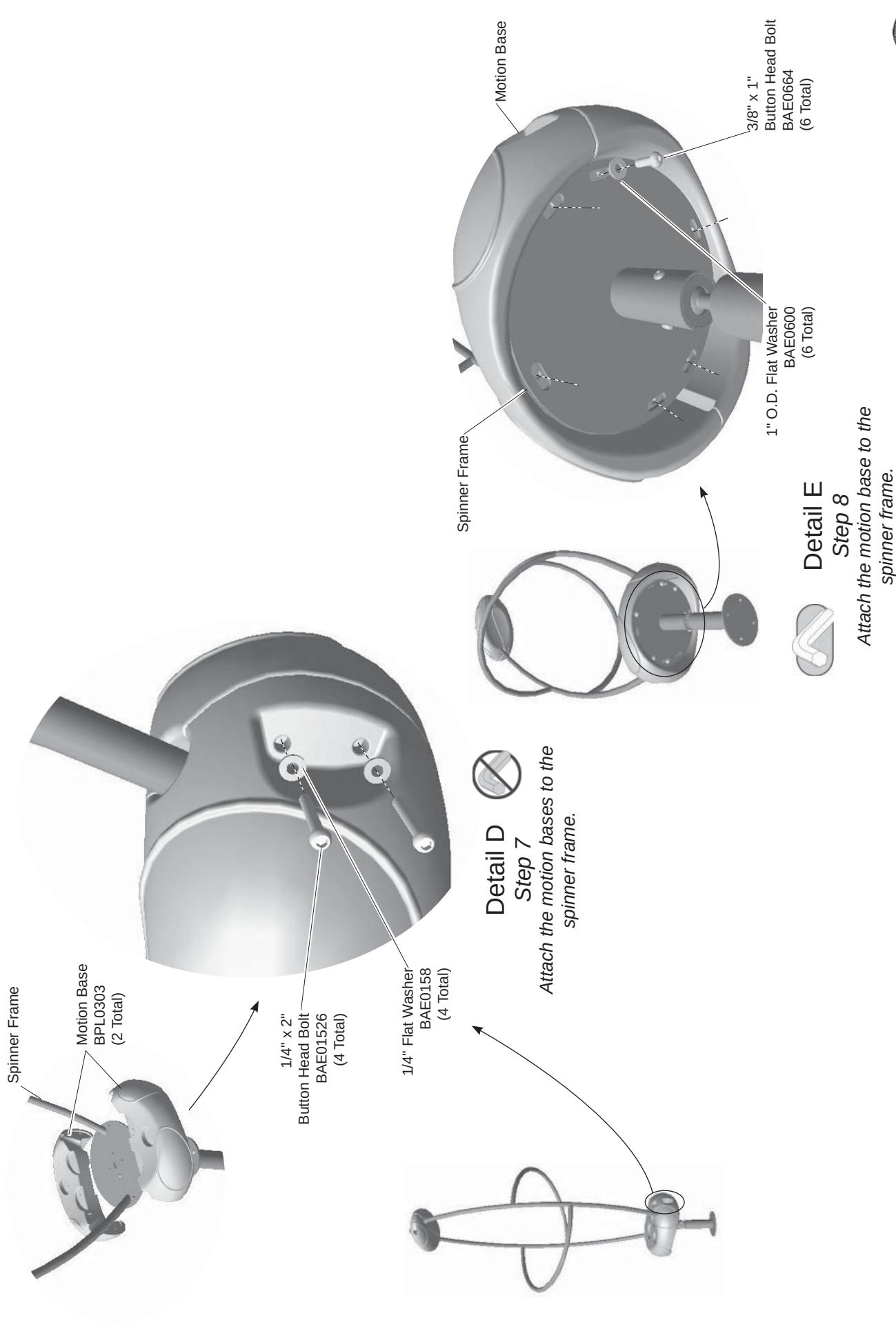


Installation Instructions

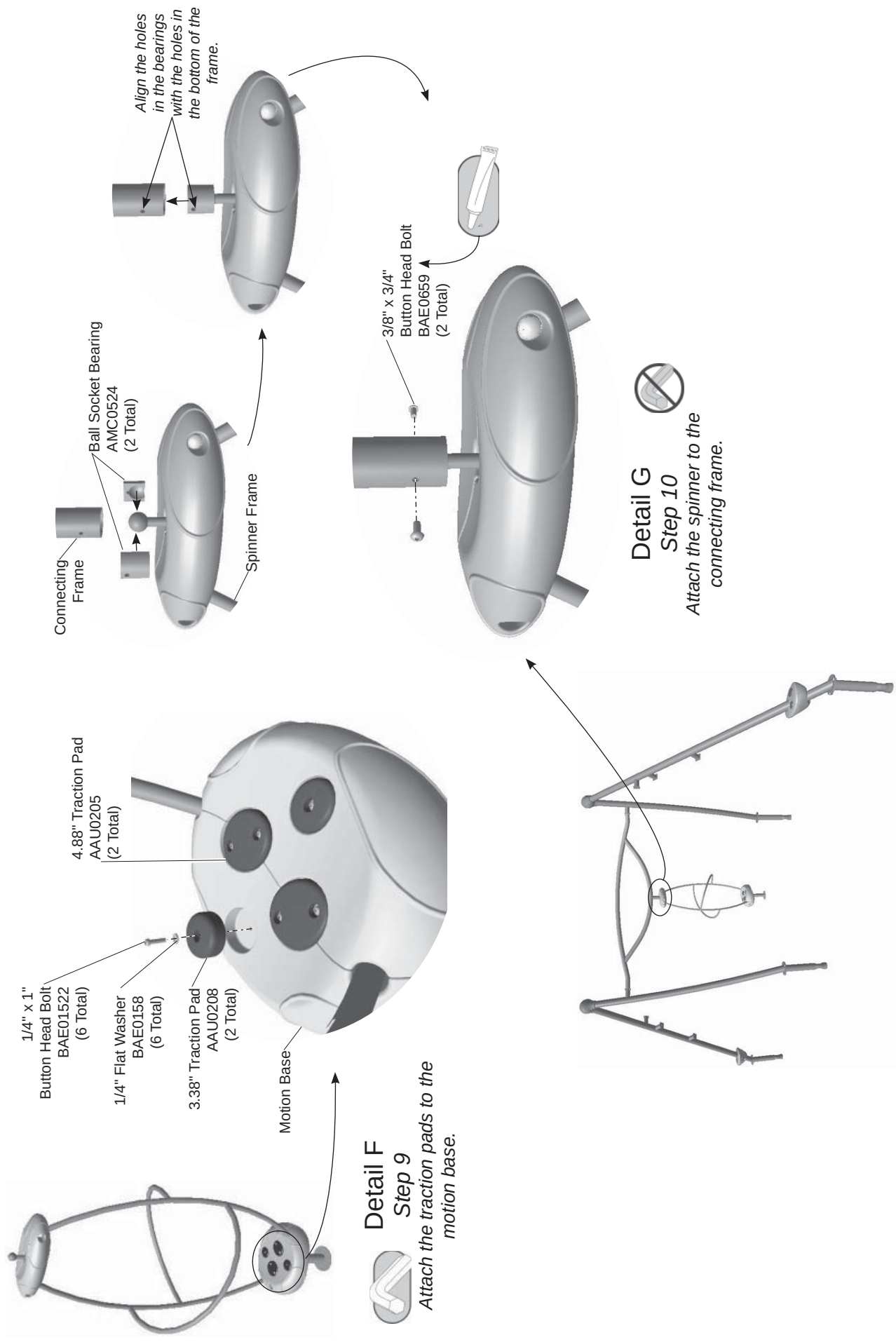


Detail C 
Steps 6 & 14
 Attach the motion top cover to the spinner frame.

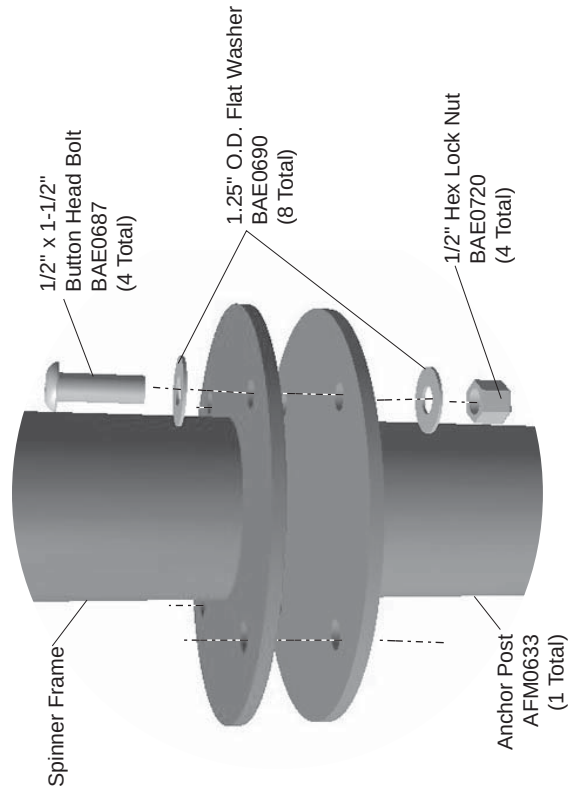
Installation Instructions



Installation Instructions

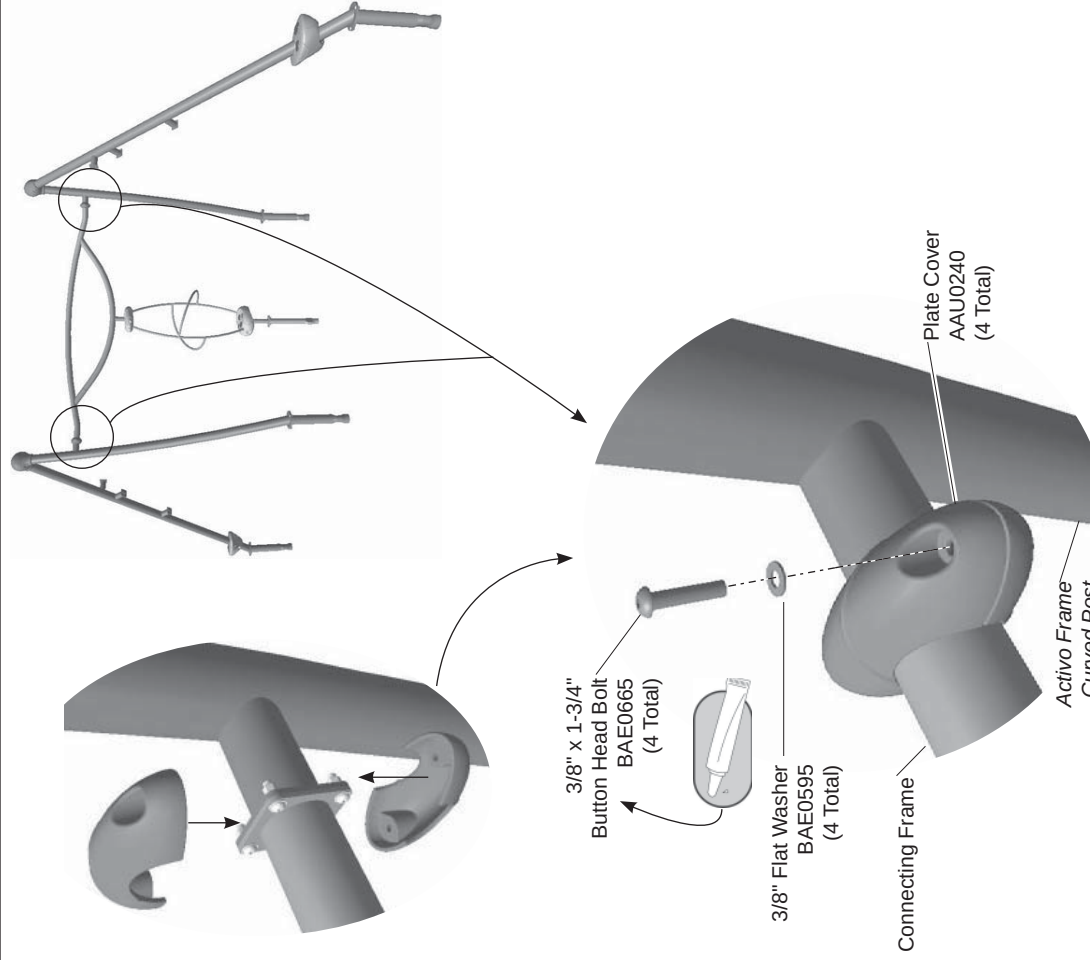
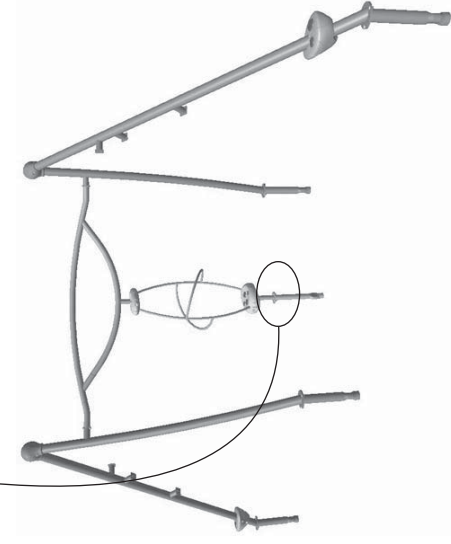


Installation Instructions



Detail H
Step 11

(in-ground model only)
Attach the anchor post to the spinner frame.



Detail I
Step 13

Attach the plate covers to the Active frame and spinner support frame.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete *unless otherwise instructed*. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Activo Guidelines at the beginning of this document. Use the **Support Post Footing Detail** for the in-ground model. Also reference the **Footing Diagram** for footing placement.

Step 4: Attach the connecting frame to the Activo frames. See **Detail A**. Position the top of the frame between the curved posts on the Activo frames, align the holes, and attach as shown.

Step 5: Attach the spinner base to the spinner frame. See **Detail B**. Close the ball socket bearings around the top of the base and insert the base into the bottom of the spinner frame and align the holes in the socket bearings with those in the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 6: Attach the motion top cover to the spinner frame. See **Detail C**. Close the motion top covers around the top of the spinner frame and align the holes. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 7: Attach the motion bases to the spinner frame. See **Detail D**. Close the motion bases around the bottom of the spinner frame and align the holes. Attach as shown.

Step 8: Attach the motion base to the spinner frame. See **Detail E**. Align the holes in the motion bases with holes in the plate in the bottom of the spinner frame and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 9: Attach the traction pads to the motion base. See **Detail F**. Place the traction pads into the appropriate holes in the motion base and attach as shown. Fully tighten the connections according to the tightening torque specifications.
Note: The traction pads are beveled and must match the contour of the cutout in the motion base.

Step 10: Attach the spinner to the connecting frame. See **Detail G**. Close the ball socket bearings around the top of the spinner and insert the spinner into the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 11 (in-ground model only): Attach the anchor post to the spinner frame. See **Detail H**. Place the anchor post in the prepared footing and raise it up to align with the holes in the bottom of the spinner frame and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 13: Attach the plate covers to the Activo frame and arch frame. See **Detail I**. Position a pair covers over the connected mounting plates of the frames, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 14: Select plastic caps and press over the plastic flanged washers. See **Detail C**.

Note: The plastic caps install easier when they are warm.

Installation Instructions

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.



Bill of Materials

AC0011 - ACTIVE TWIRL CONNECTOR

PART NO.	DESCRIPTION	QTY.
AAU0205	4.88" TRACTION PAD	2
AAU0208	3.38" TRACTION PAD	2
AAU0240	ACTIVE PLATE COVER	4
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1
AFR1060	FRAME - 88" SPINNER	1
AFR1061	FRAME - ACTIVE SPINNER	1
AFR1136	FRAME - CONNECTING TWIRL AND TAILSPIN	1
AMC0524	BEARING - BALL SOCKET	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	6
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	10
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	8
BAE0720	NUT - 1/2"-13 LOCK	4
BPL0300	CAP - 3/8" BOLT	4
BPL0303	ACTIVE MOTION BASE	2
BPL0304	ACTIVE MOTION TOP COVER	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

AC0011S - ACTIVE TWIRL CONNECTOR SM

PART NO.	DESCRIPTION	QTY.
AAU0205	4.88" TRACTION PAD	2
AAU0208	3.38" TRACTION PAD	2
AAU0240	ACTIVE PLATE COVER	4
AFR1060	FRAME - 88" SPINNER	1
AFR1061	FRAME - ACTIVE SPINNER	1
AFR1136	FRAME - CONNECTING TWIRL AND TAILSPIN	1
AMC0524	BEARING - BALL SOCKET	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	6
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	10
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPL0300	CAP - 3/8" BOLT	4
BPL0303	ACTIVE MOTION BASE	2
BPL0304	ACTIVE MOTION TOP COVER	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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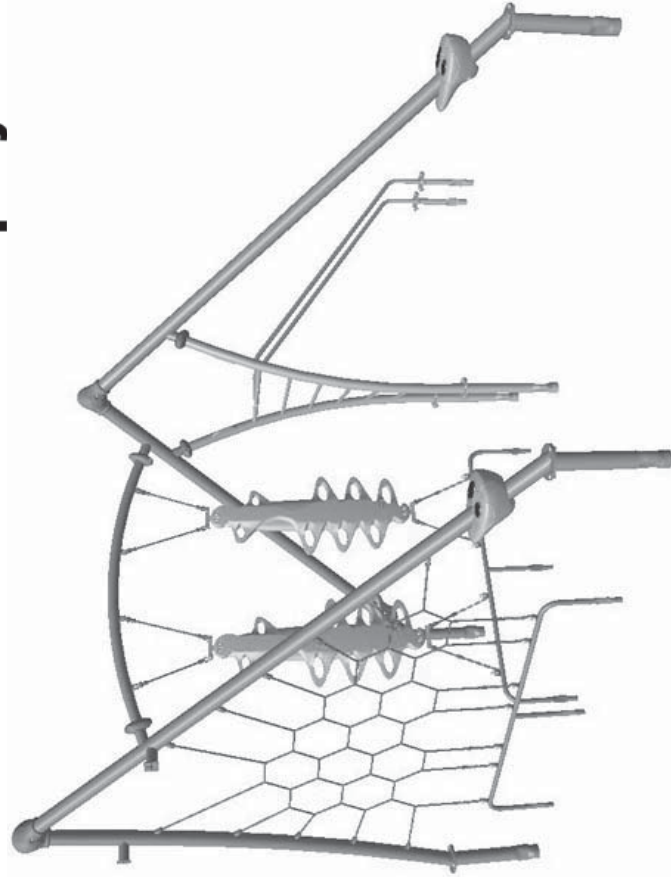
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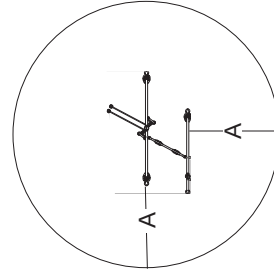




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Assembly View (representative structure)



Equipment Use Zone
A - (ASTM) at least 72 in. (1830 mm)
(CSA) at least 1800 mm
(EN) (2032 mm)

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions Playworld Systems® Models AC0015 and AC0015S Activo Axis In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time (in-ground): 18 man-hours
Installation Time (surface mount): 7 man-hours
Weight (in-ground): 1111 Lbs. (505 Kilos)
Weight (surface mount): 860.5 Lbs. (391.1 Kilos)
Concrete Required (in-ground): 1.20 cubic yard (0.94 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

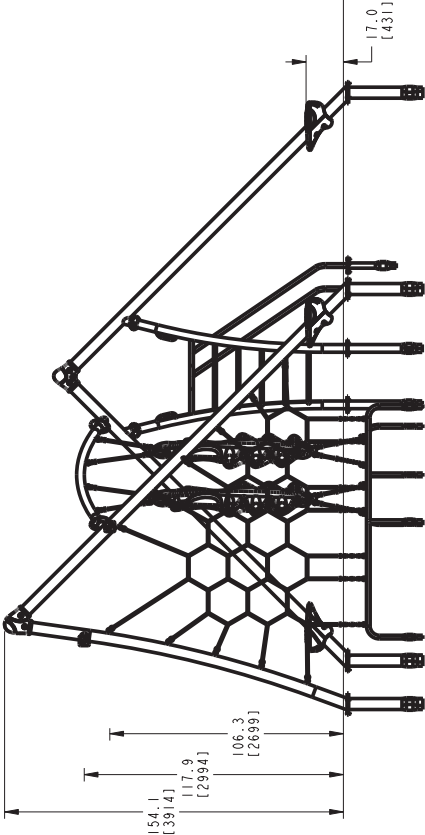
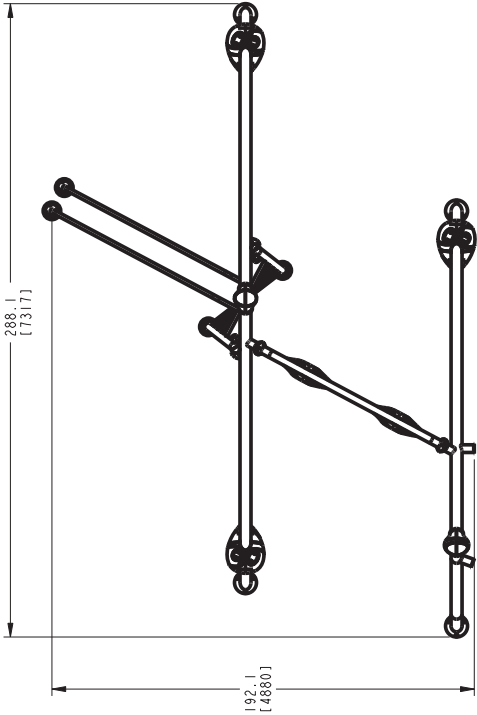
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



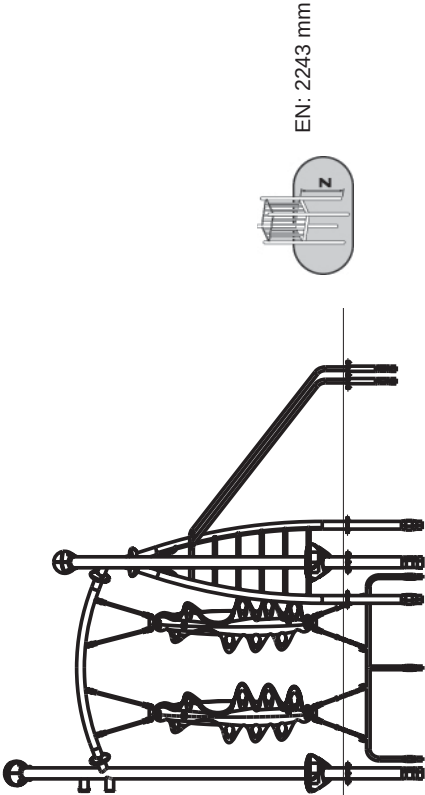
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

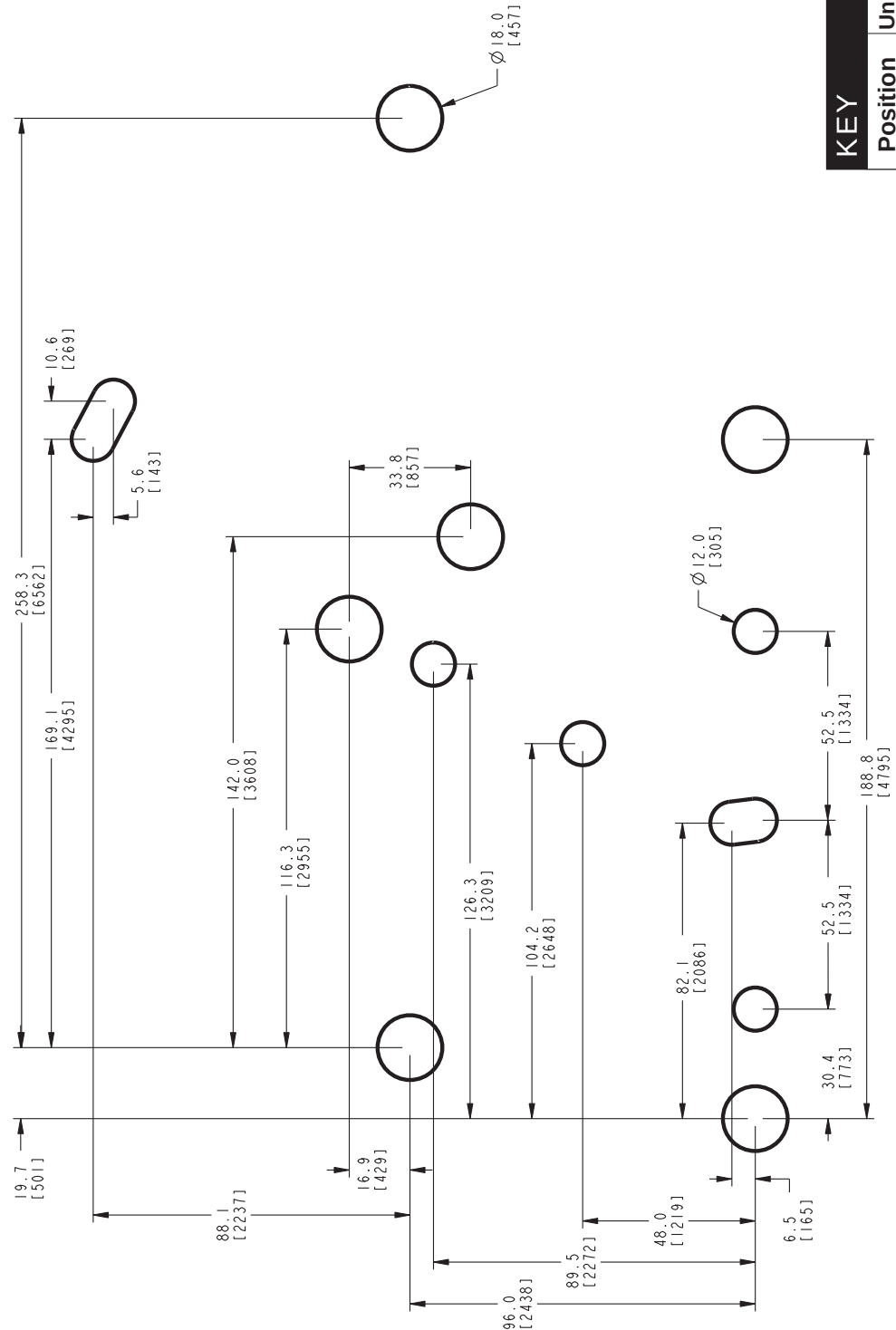
Top View



Elevation Views
ZZAC0015



Installation Instructions



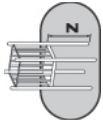
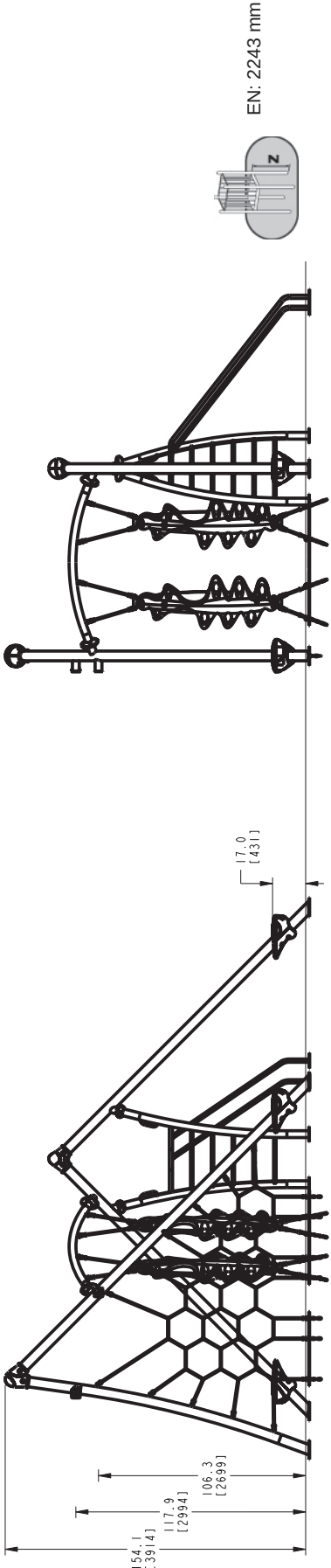
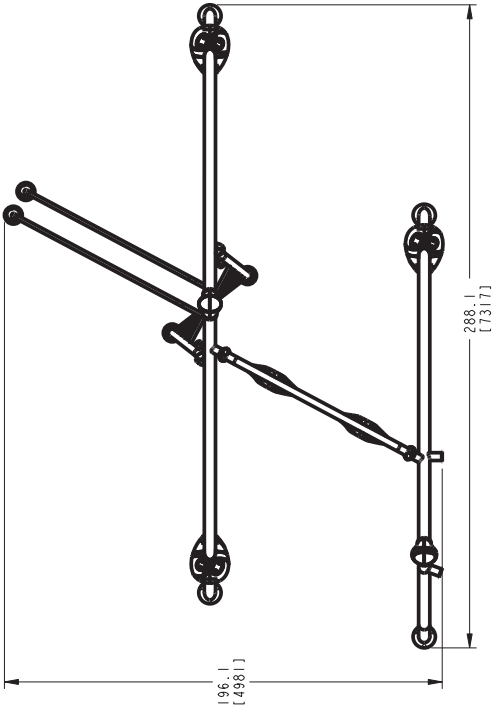
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Footing Diagram
ZZAC0015



KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

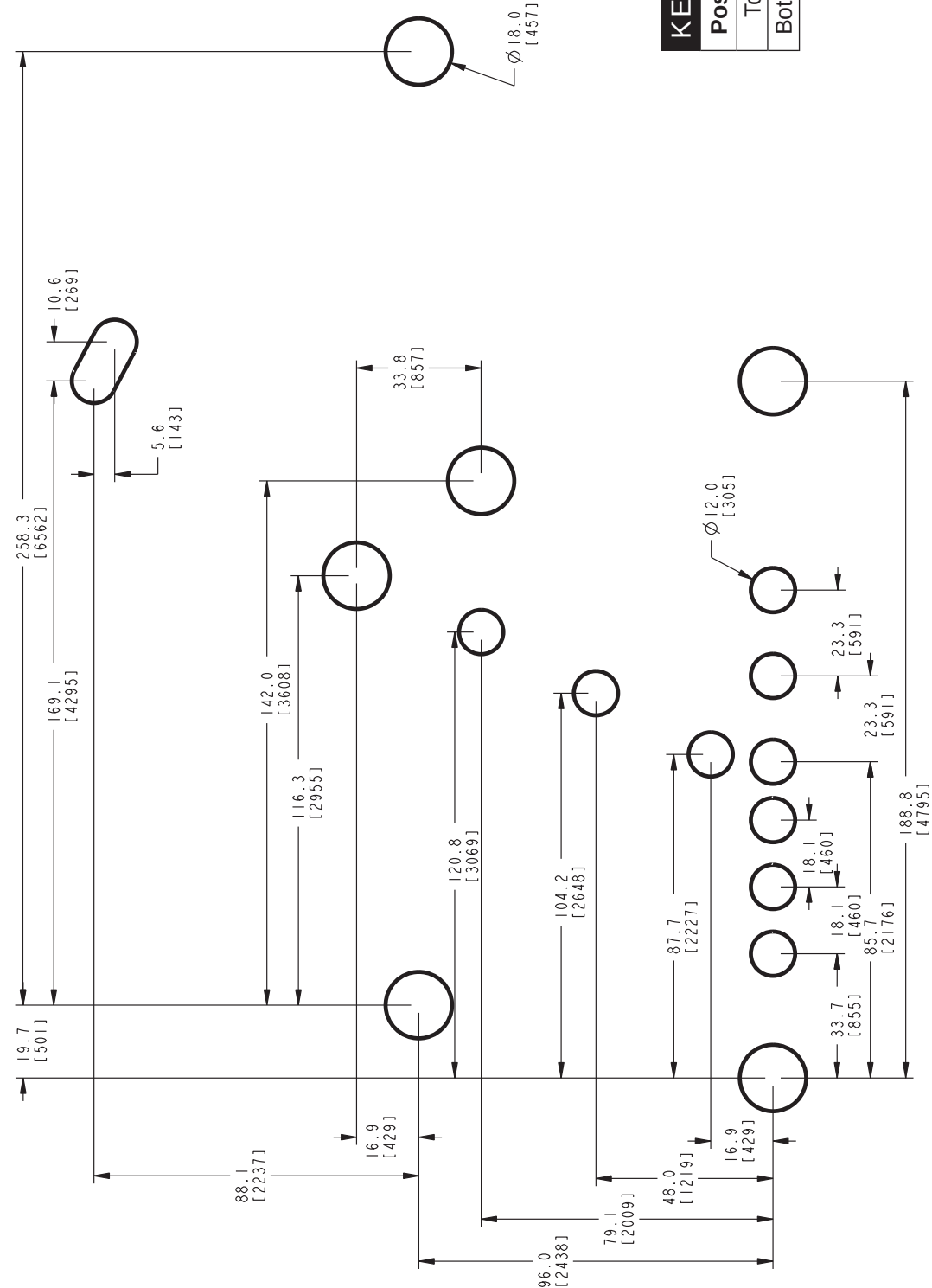
Top View



Elevation Views
ZZAC0015S



Installation Instructions

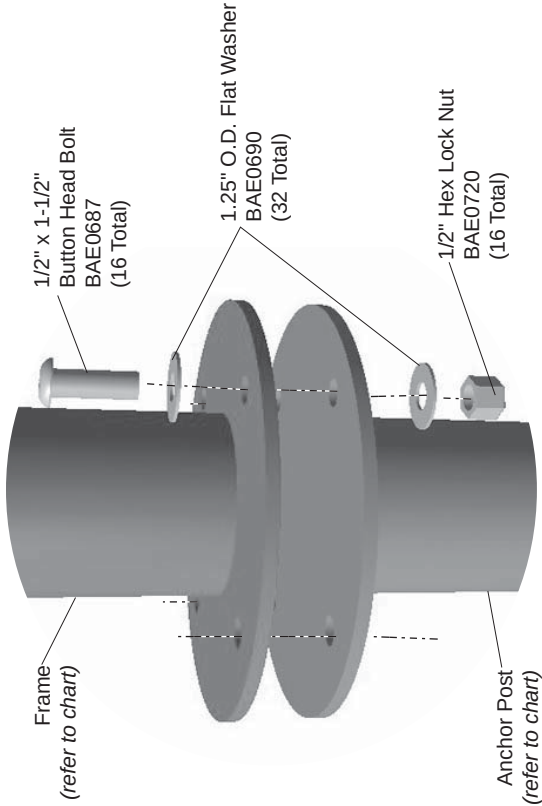


Footing Diagram
ZZAC0015S



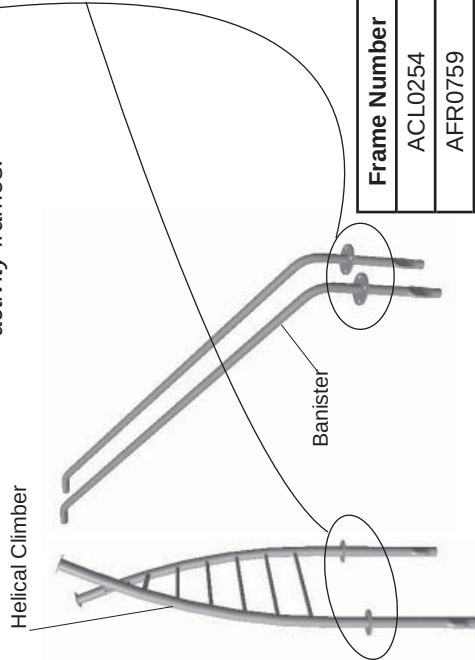
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 16.

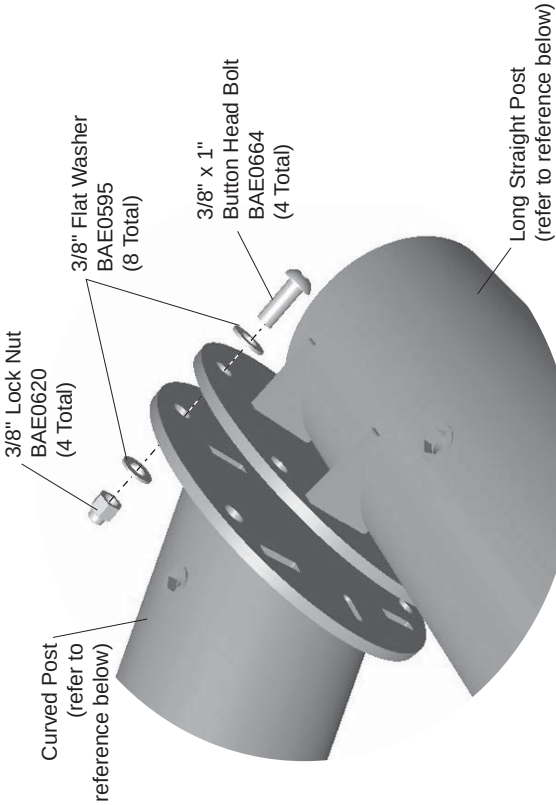


Detail A
Step 4

(In-ground model only)
Attach the anchor posts to the activity frames.



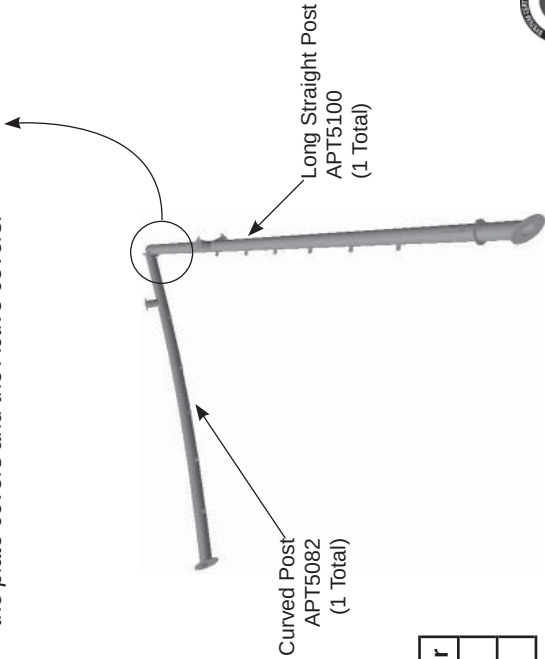
Frame Number	Activity	Anchor Post Number
ACL0254	Helical Climber (1 Total)	AFM0633 (2 Total)
AFR0759	Banister (2 Total)	AFR0733 (2 Total)



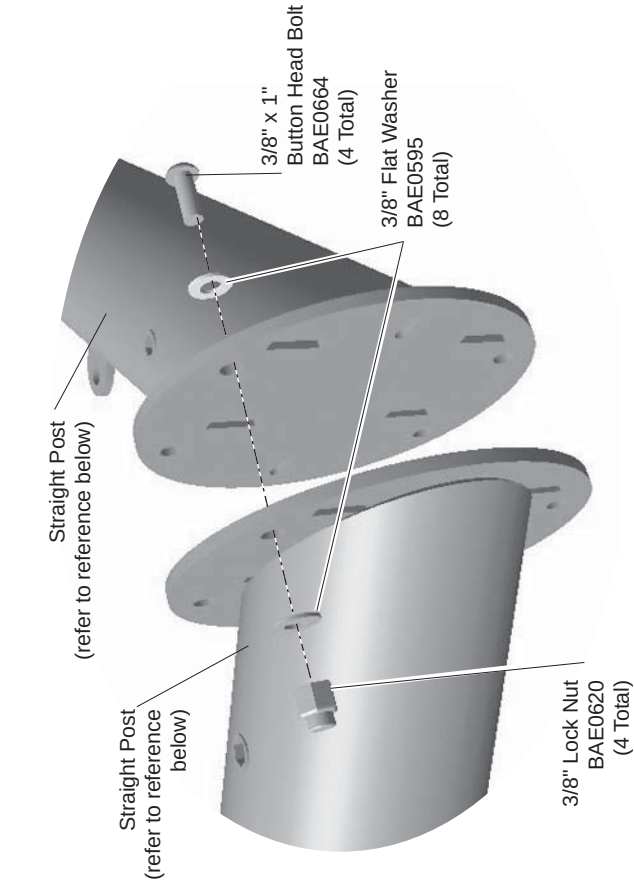
Detail B
Step 5

Attach the curved and straight support posts together.

Important Note: When connecting the support posts together and then the component frames to the support posts, make sure to **leave the connections loose** until attaching the plate covers and the Active covers.

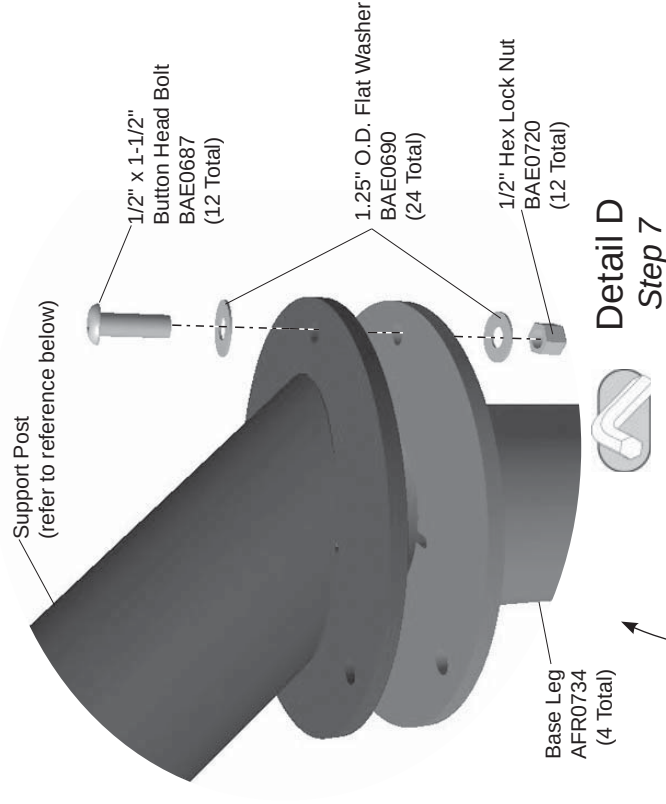
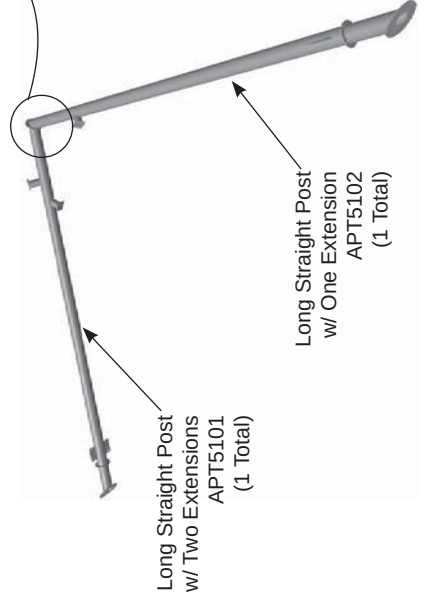


Installation Instructions



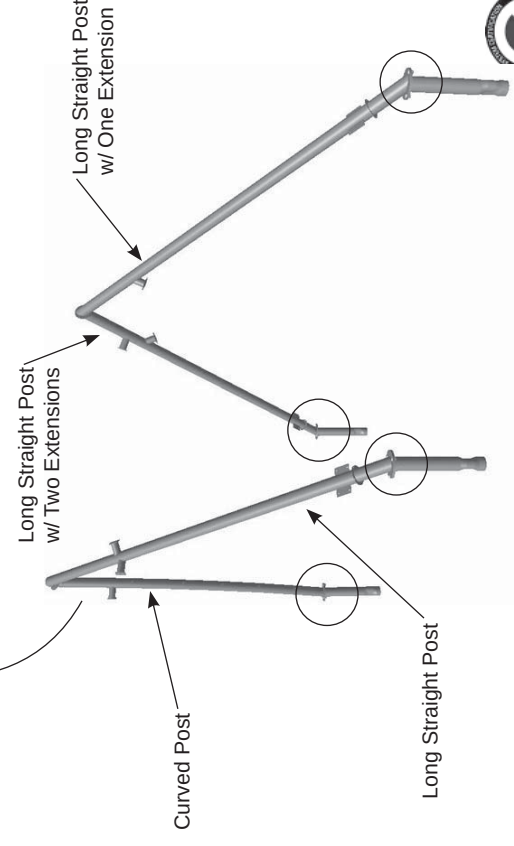
Detail C Step 6

Attach the straight support posts together.

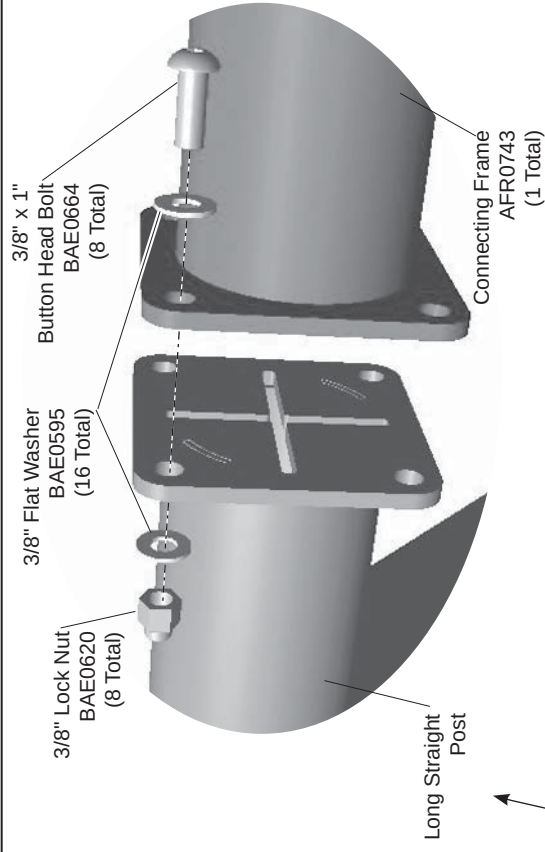


Detail D Step 7

(In-ground models only)
Attach the base legs to the support posts.



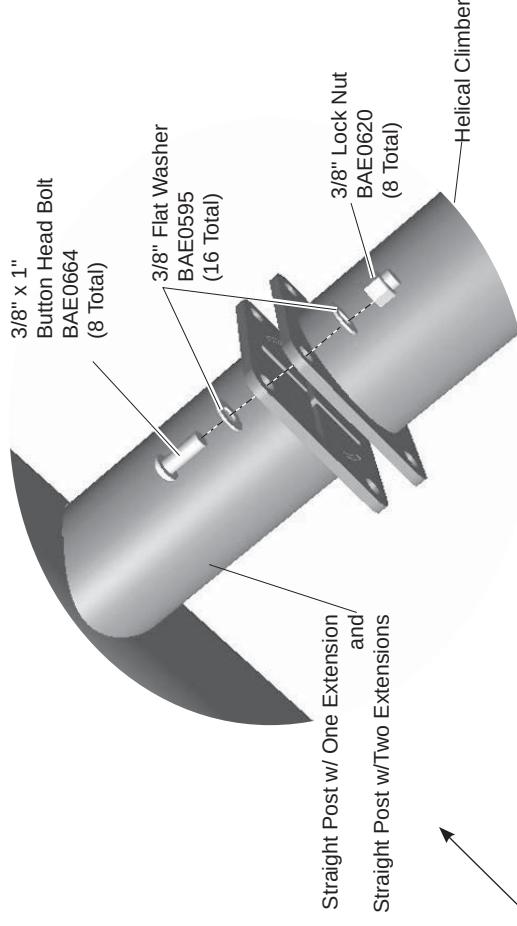
Installation Instructions



Detail E

Step 8

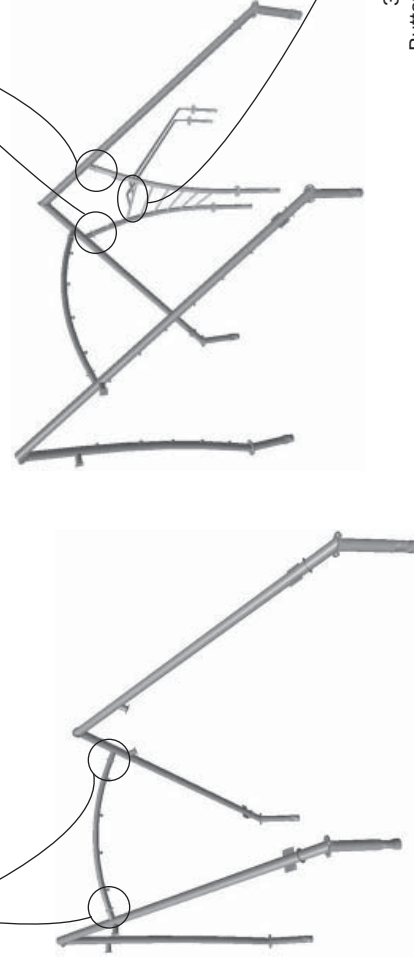
Attach the connecting frame to the straight support posts.



Detail F

Step 9

Attach the helical climber to the straight support posts.

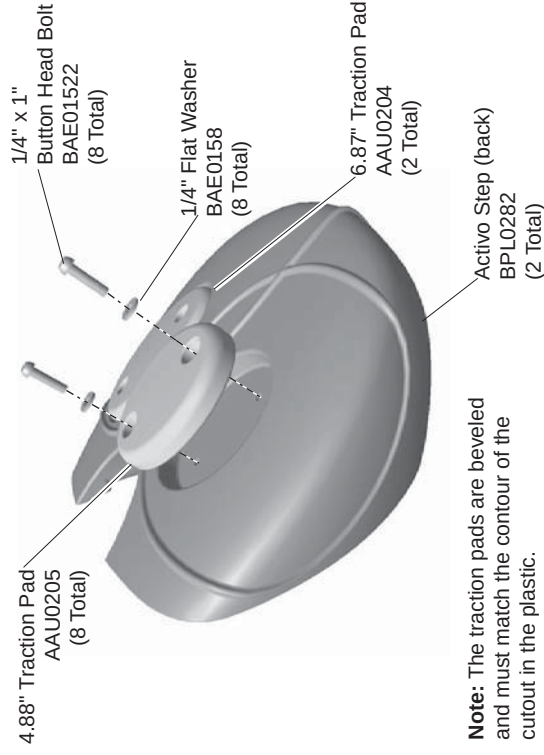
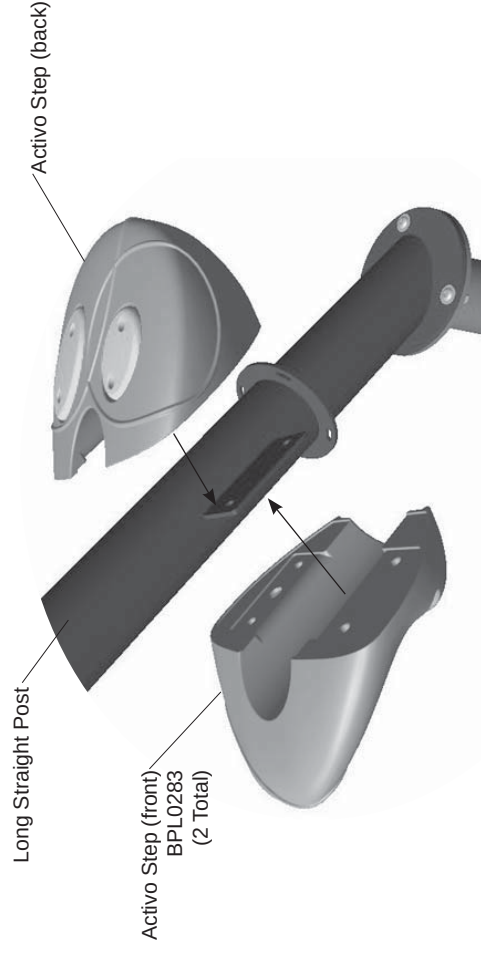


Detail G

Step 10

Attach both banisters to the helical climber.

Installation Instructions

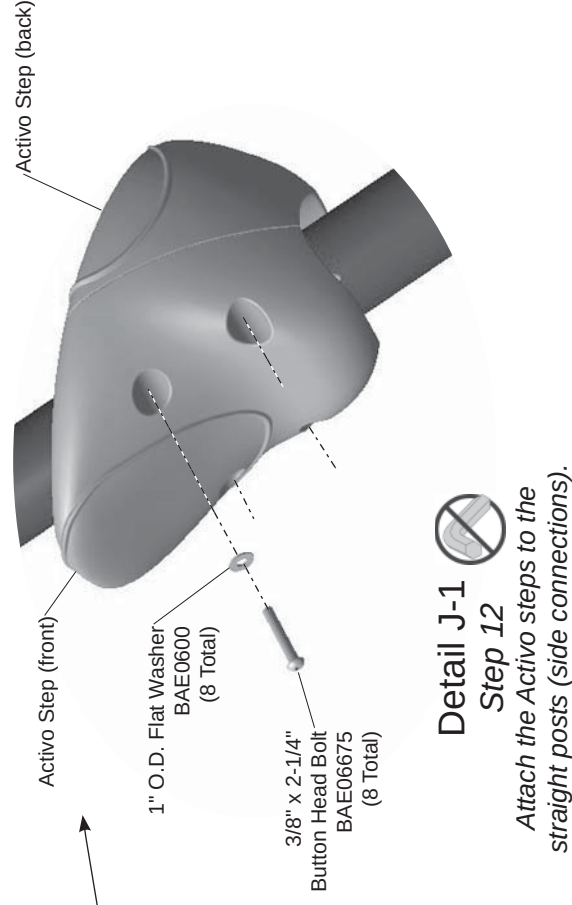


Note: The traction pads are beveled and must match the contour of the cutout in the plastic.



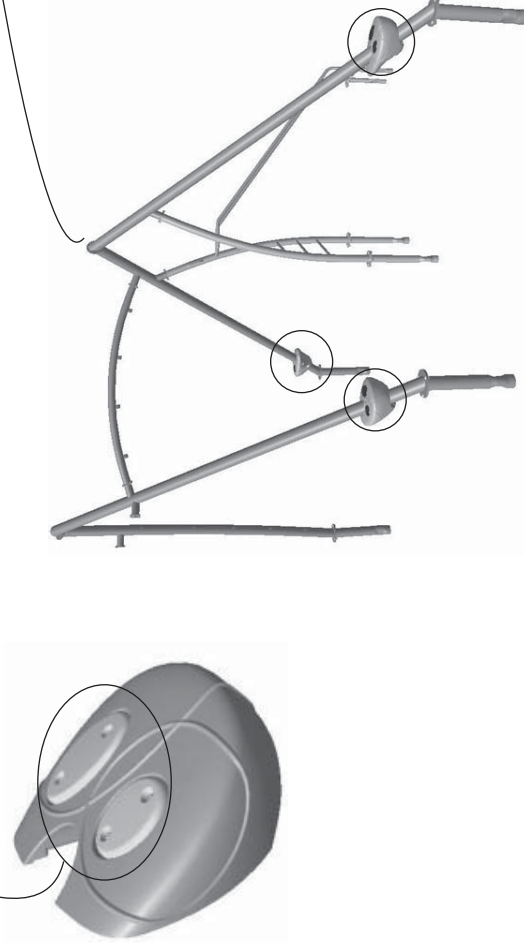
Detail H Step 11

Attach the traction pads to the Active steps.

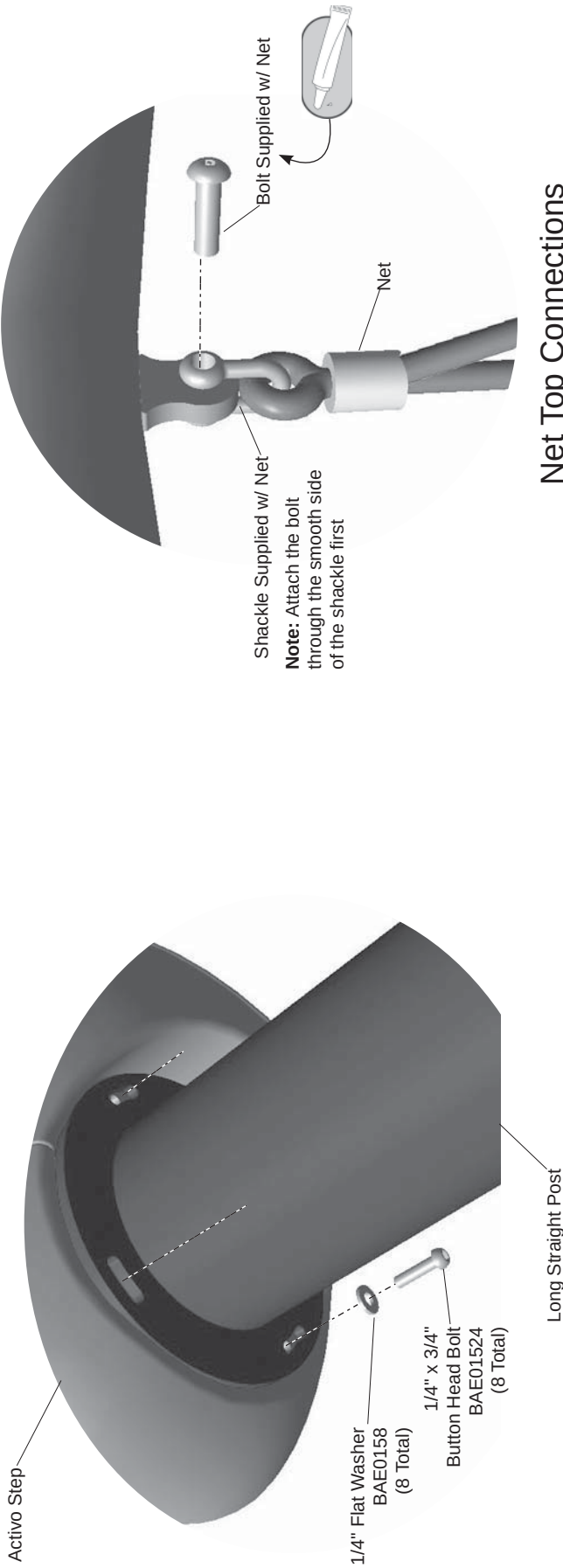


Detail J-1 Step 12

Attach the Active steps to the straight posts (side connections).



Installation Instructions



Net Top Connections



Detail K Step 13

Attach the top of the nets to the supports posts and frames.

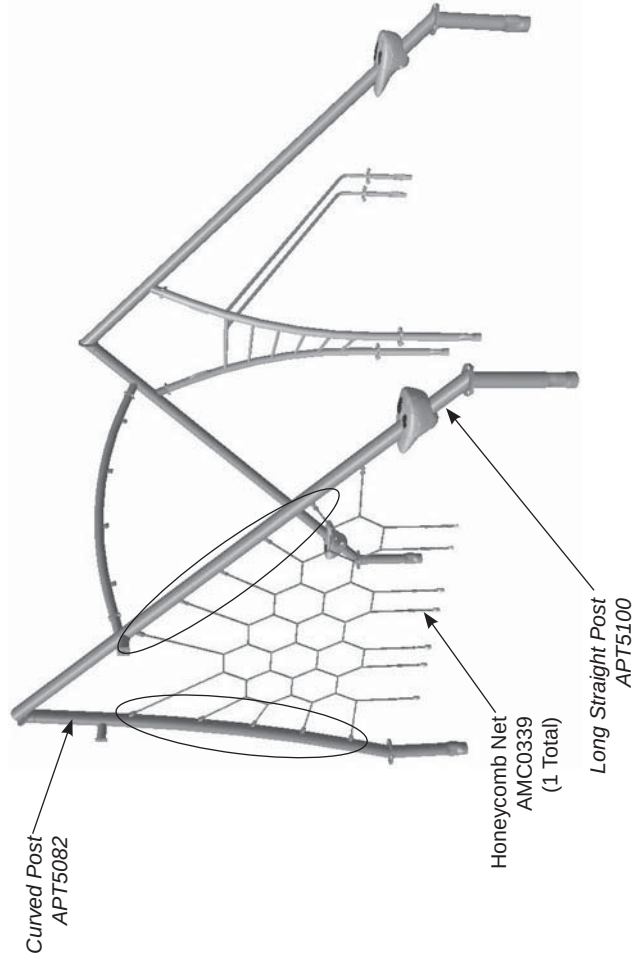
See the references on the next page for type and location of the nets and their top connections which are circled.



Detail J-2 Step 12

Attach the Active steps to the straight posts (bottom connections).

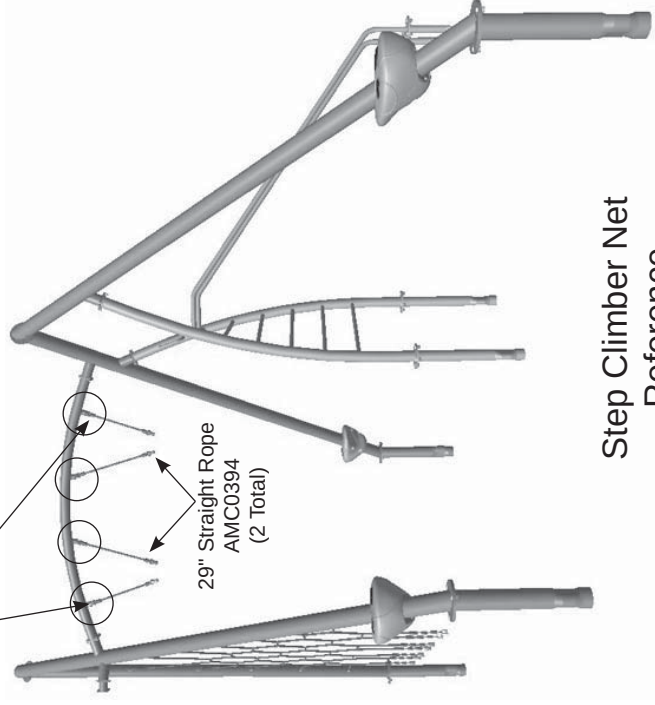
Installation Instructions



Honeycomb Net
Reference

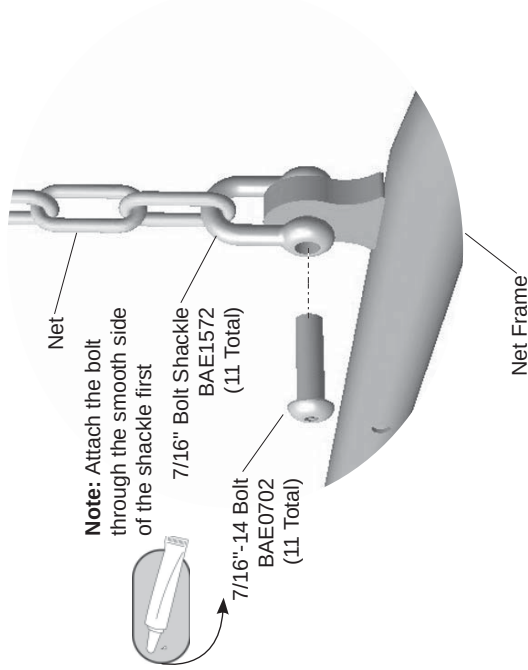
25" Straight Rope
AMC0393
(2 Total)

29" Straight Rope
AMC0394
(2 Total)



Step Climber Net
Reference

Installation Instructions



In-Ground Model

Detail L

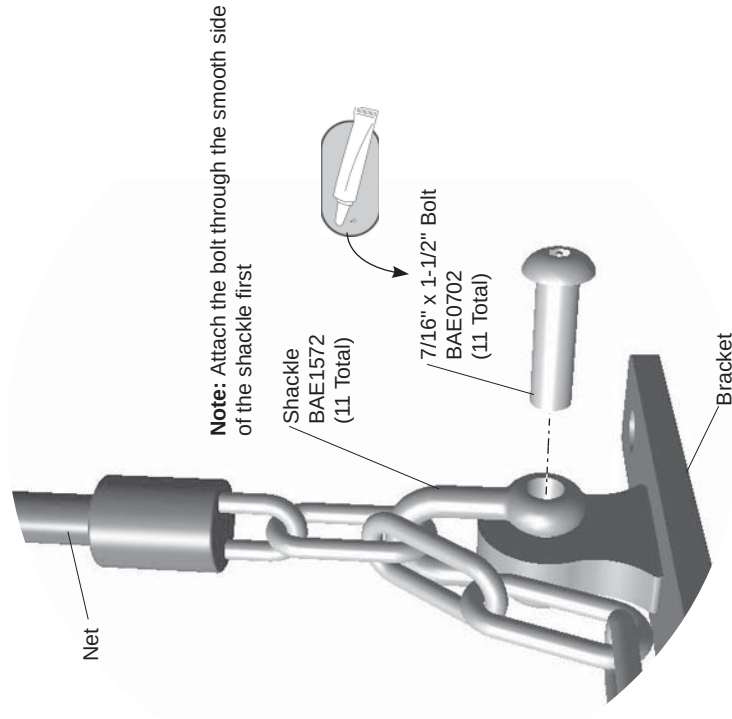
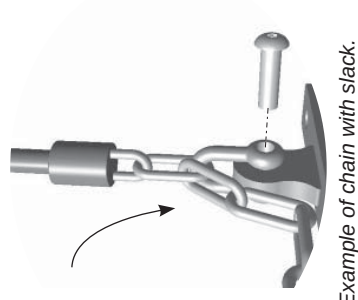
Step 14

Attach the bottom of the nets to the brackets and frames.

See the references on the next page for location of the frames/brackets and their bottom connections.

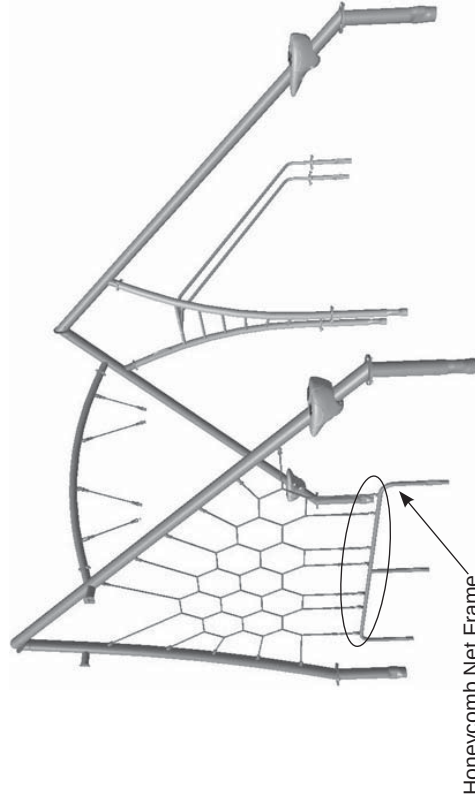
Net Bottom Connections

Important Note: Position each shackle through a link on a chain that will create some tension on the chain and then over the tab on the anchor

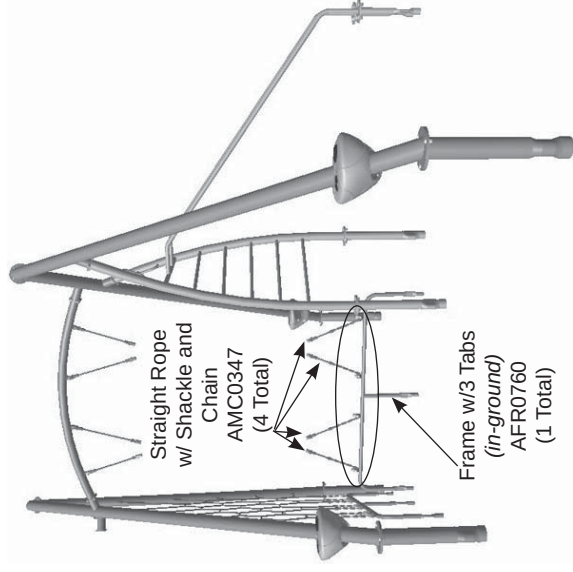
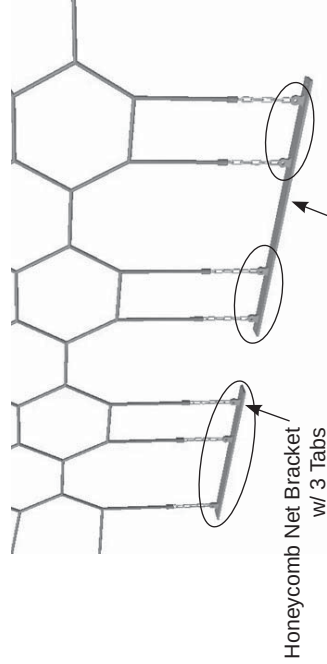


Surface Mount Model

Installation Instructions



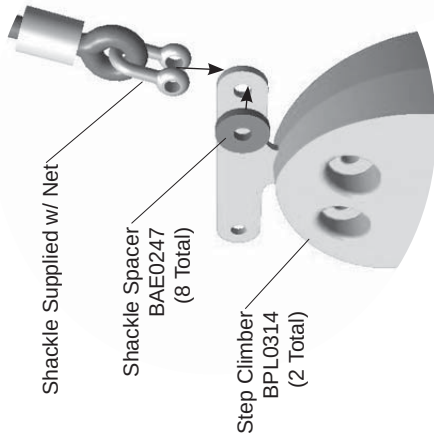
Honeycomb Net Reference



Step Climber Net Reference



Installation Instructions



Note: Attach the bolt through the smooth side of the shackle first

Shackle Supplied w/ Net

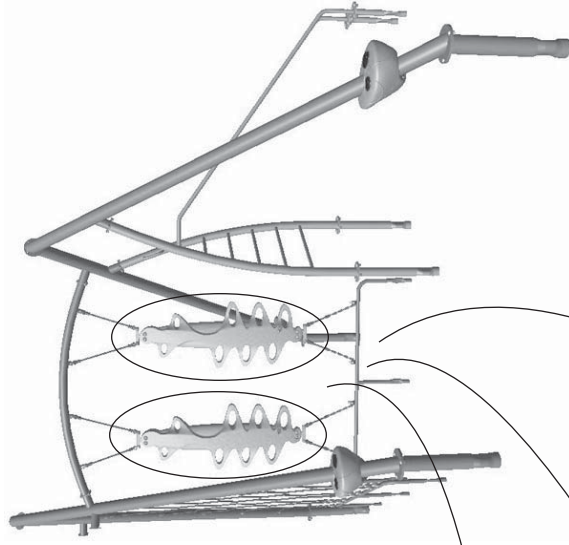
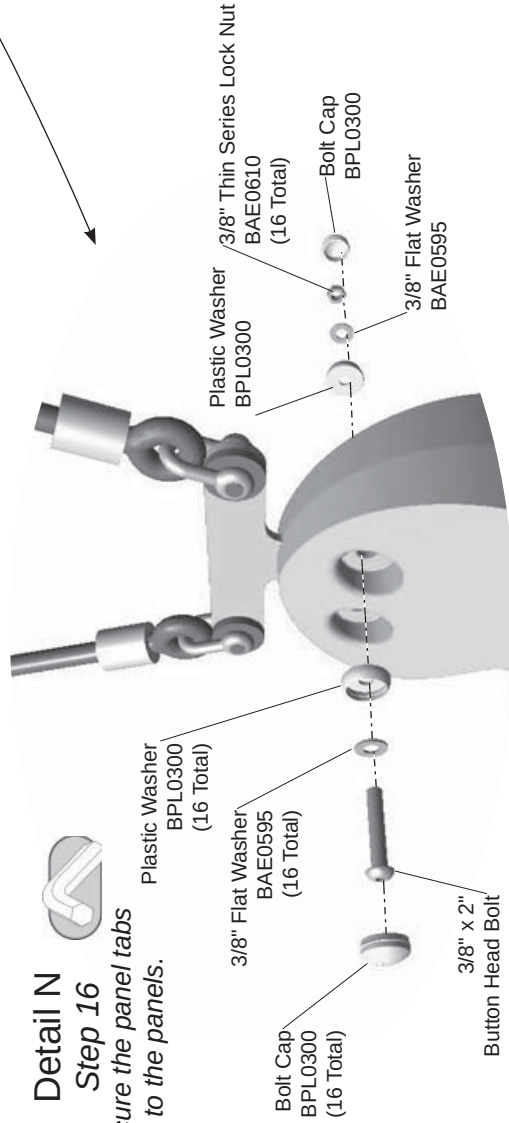
Bolt Supplied w/ Net

Detail M Step 15

Attach the step climbers to the top and the bottom ropes.

Detail N Step 16

Secure the panel tabs to the panels.



Step Climber Panel

Vent Cover
AAU0655
(4 Total)

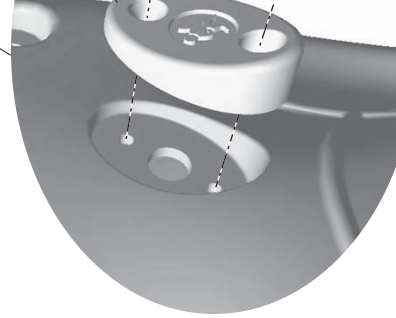
Flat Head
Socket Cap
w/ Pin Bolt
BAE0017
(8 Total)



Detail O Step 17

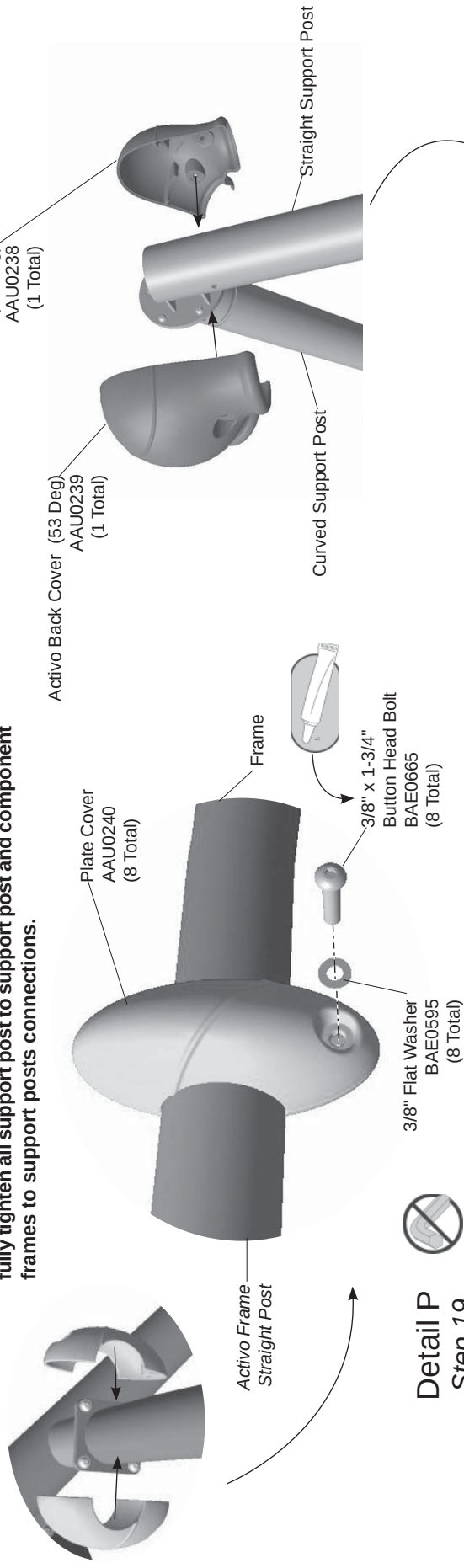
Note: The vent covers are beveled and must match the contour of the cutout in the plastic.

Attach the vent covers to the panels.



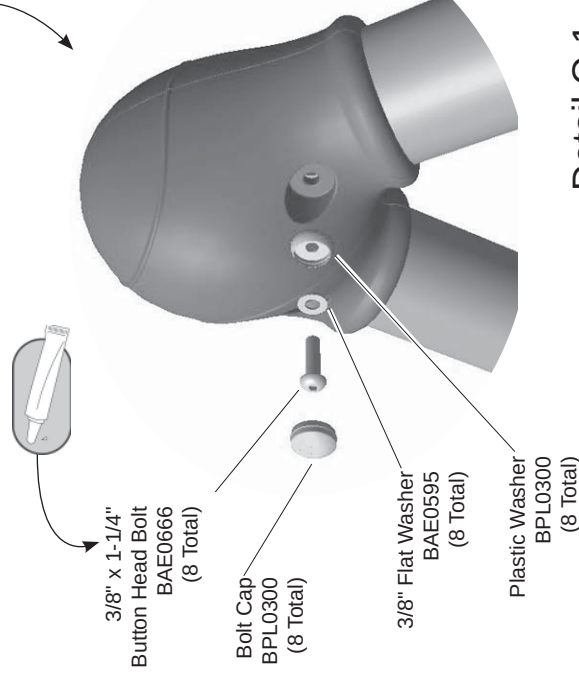
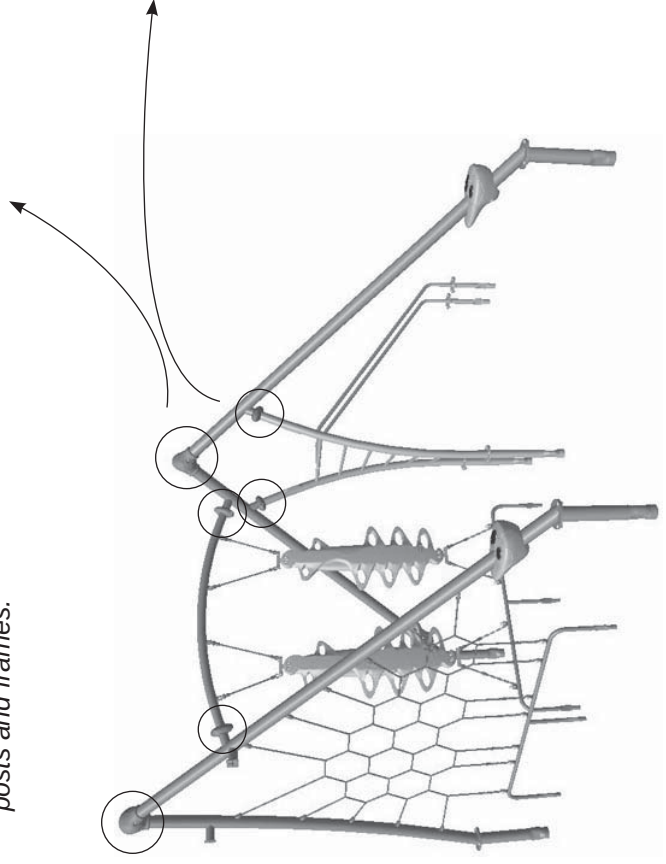
Installation Instructions

Note: Prior to attaching the plate covers and Active covers, fully tighten all support post to support post and component frames to support posts connections.



Detail P Step 19

Attach the plate covers to the Active posts and frames.

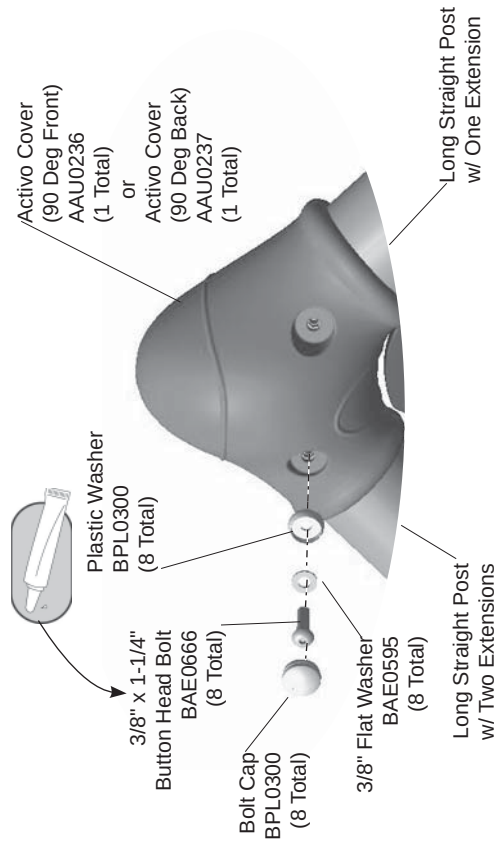


Detail Q-1 Step 20

Important Note: Do Not install bolt caps until the entire structure is assembled.

Attach the covers to the support posts.

Installation Instructions



Important Note: Do Not install bolt caps until the entire structure is assembled.

Detail Q-2
Step 20

Attach the covers to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the Active Guidelines at the beginning of this document. Use the **Support Post Footing Detail (Active Posts and Helical Climber)**, the **42" Component Footing Detail (Net Frames)**, and the **Standard Component Footing Detail (Banister Anchor Posts)** for the in-ground model. Also reference the **Footing Diagram** for footing placement.

Step 4 (in-ground model only): Attach the anchor posts to the helical climber frame and banister frames. See **Detail A**. Lay the frames on the ground near their footing locations. Position an anchor post against the bottom of each frame, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 5: Attach the straight and curved support posts together. See **Detail B**. Lay the posts on the ground near their footing location. Bring the top of the posts together and align the holes in the plates. Attach as shown.

Step 6: Attach the straight support posts together. See **Detail C**. Lay the posts on the ground near their footing location. Bring the top of the posts together and align the holes in the plates. Attach as shown.

Step 7: Attach the base legs to the support posts (**in-ground model only**). See **Detail D**. Align the base legs with the bottom of the posts and attach as shown.
Note: With adequate manpower, lift the support posts assemblies and place in, or on, their footings. **Block and brace in place.**

Step 8: Attach the connecting frame to the Active frames. See **Detail E**. Position the connecting frame between the tops of the long straight post and the straight post with two extensions, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 9: Attach the helical climber to the straight posts. See **Detail F**. Position the top helical climber frame against the appropriate stub on each Active straight post, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 10: Attach the banisters to the helical climber. See **Detail G**. Position the top of each banister against the helical climber top rail, align the holes, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 11: Attach the traction pads to the Active steps. See **Detail H**. Place the traction pads into the recessed portions in each step and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Note: The traction pads are beveled and must match the contour of the recessed portion in the step.

Step 12: Attach the Active steps to the straight support posts. See **Details J-1 (Upper Connections)** and **J-2 (Bottom Connections)**. *Upper Connections:* Close the steps around the frames. The metal plate on the frame will fit into the recessed area of the step. Align the holes and attach as shown. *Bottom Connections:* Insert each bolt up through the plate in the frame and into the step and attach as shown.

Step 13: Attach the top of the nets to the supports posts and frames. See **Detail K and the Net References**. Lift the nets up and attach to the posts and frames as shown using the hardware that comes attached to the top of the nets. Fully tighten the connections according to the tightening torque specifications.

Step 14: Attach the bottom of the nets to the frames (**in-ground model**) or the brackets (**surface mount model**). See **Detail L and the Net References**. Extend the free ends of each net down to the net frame or brackets. Insert the shackles around the tabs on the net frame, or brackets, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Important Note: Position each shackle through a link on a chain that will create some tension on the chain, and then over the tab on the frame/bracket.



Installation Instructions

Step 15: Attach the step climber panels to the straight ropes. See **Detail M**. Raise the climber panels up to the ropes. Align a shackle spacer with the tabs on each corner of the climber panels. Remove the bolt from each shackle and insert the shackle around the shackle spacer and climber panel. Attach as shown. Repeat the procedure for the bottom ropes. Fully tighten the connections according to the tightening torque specifications.

Step 16: Fill the tops and bottoms of the panels. See **Detail N**. Attach the hardware and bolt caps to the recessed areas of the panels as shown. Fully tighten the connections according to the tightening torque specifications.

Step 17: Attach a vent cover to each side of each panel. See **Detail O**. Insert a vent cover into the appropriate recessed area in each side of each panel and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Note: The vent covers are beveled and must match the contour of the cutout in the climber panel.

Final Details.

Step 18: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 19: Attach the plate covers to the Activo posts and frames. See **Detail P**. Position a pair covers over the connected mounting plates of the frames, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 20: Attach the Activo covers to the top of the post assemblies. See **Details Q-1 and Q-2**. Position each cover around the top of the support posts. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Tighten each side evenly so that there is no gap between the covers.

Important Note: Do Not install bolt caps until the entire structure is assembled.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 21: Select plastic caps and press over the plastic flanged washers. See **Details N, Q-1, and Q-2**.

Note: The plastic caps install easier when they are warm.



Bill of Materials

AC0015 - ACTIVO AXIS

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0204	6.87" TRACTION PAD	3	BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	28
AAU0205	4.88" TRACTION PAD	3	BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	56
AAU0236	ACTIVE COVER (90 DEG. FRONT)	1	BAE0702	BOLT - 7/16-14 x 1.50" - BUTTON HEAD	11
AAU0237	ACTIVE COVER (90 DEG. BACK)	1	BAE0720	NUT - 1/2"-13 LOCK	28
AAU0238	ACTIVE COVER (53 DEG. FRONT)	1	BAE1572	7/16" BOLT SHACKLE	11
AAU0239	ACTIVE COVER (53 DEG. BACK)	1	BPL0282	ACTIVO STEP (BACK)	3
AAU0240	ACTIVE PLATE COVER	8	BPL0283	ACTIVO STEP (FRONT)	3
AAU0655	CASTING - VENT COVER	4	BPL0300	CAP - 3/8" BOLT	24
ACL0254	CLIMBER - HELICAL w/HOLES	1	BPL0314	STEP CLIMBER	2
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	2			
AFR0733	FRAME - 2.38" O.D. x 22.00"	2			
AFR0734	FRAME - 5.00" O.D. x 34.12"	4			
AFR0759	FRAME - 100.00" x 8.00" x 71.97"	2			
AFR0760	FRAME - 95.66" ROPE FOOTING w/4 TABS	1			
AFR0778	FRAME - AMC0339 NET	1			
AFR0858	FRAME - CONNECTOR ARCH	1			
AMC0339	HONEYCOMB NET	1			
AMC0347	STRAIGHT ROPE w/SHACKLE AND CHAIN #1	4			
AMC0393	25.5" STRAIGHT ROPE w/2 SHACKLES	2			
AMC0394	29.7" STRAIGHT ROPE w/2 SHACKLES	2			
APT5082	POST - 152.25" x 43.49" x 13.16"	1			
APT5100	POST - 221.45" x 16.13" x 11.22"	1			
APT5101	POST - 188.95" x 13.73" x 14.03"	1			
APT5102	POST - 188.95" x 11.25" x 10.94"	1			
BAD0085	THREAD LOCKING ADHESIVE	2			
BAE0017	BOLT - 1/4"-20 x 3/4" FLAT HD SOCKET CAP w/PIN	8			
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	12			
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	12			
BAE0158	WASHER - 1/4" SAE FLAT	24			
BAE0247	SHACKLE SPACER	8			
BAE0595	WASHER - 3/8" SAE FLAT	80			
BAE0600	WASHER - 1" O.D. FLAT	12			
BAE0610	NUT - 3/8"-16 THIN LOCK	8			
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	24			
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24			
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8			
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8			
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	8			
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	12			
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2			



Bill of Materials

AC0015S - ACTIVE AXIS SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0204	6.87" TRACTION PAD	3
AAU0205	4.88" TRACTION PAD	3
AAU0236	ACTIVE COVER (90 DEG. FRONT)	1
AAU0237	ACTIVE COVER (90 DEG. BACK)	1
AAU0238	ACTIVE COVER (53 DEG. FRONT)	1
AAU0239	ACTIVE COVER (53 DEG. BACK)	1
AAU0240	ACTIVE PLATE COVER	8
AAU0655	CASTING - VENT COVER	4
ABC0512	BRACKET - 48.50" x 2.38"	1
ABC0513	BRACKET - 38.20" x 2.38"	1
ABC0557	BRACKET - 72.50" x 2.38"	1
ACL0254	CLIMBER - HELICAL w/HOLES	1
AFR0759	FRAME - 100.00" x 8.00" x 71.97"	2
AFR0858	FRAME - CONNECTOR ARCH	1
AMC0339	HONEYCOMB NET	1
AMC0347	STRAIGHT ROPE w/SHACKLE AND CHAIN #1	4
AMC0393	25.5" STRAIGHT ROPE w/2 SHACKLES	2
AMC0394	29.7" STRAIGHT ROPE w/2 SHACKLES	2
APT5082	POST - 152.25" x 43.49" x 13.16"	1
APT5100	POST - 221.45" x 16.13" x 11.22"	1
APT5101	POST - 188.95" x 13.73" x 14.03"	1
APT5102	POST - 188.95" x 11.25" x 10.94"	1
BAD0085	THREAD LOCKING ADHESIVE	2
BAE0017	BOLT - 1/4"-20 x 3/4" FLAT HD SOCKET CAP w/PIN	8
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	12
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	12
BAE0158	WASHER - 1/4" SAE FLAT	24
BAE0247	SHACKLE SPACER	8
BAE0595	WASHER - 3/8" SAE FLAT	80
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0610	NUT - 3/8"-16 THIN LOCK	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	24
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	8
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	12
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BPL0282	ACTIVE STEP (BACK)	3
BPL0283	ACTIVE STEP (FRONT)	3
BPL0300	CAP - 3/8" BOLT	24
BPL0314	STEP CLIMBER	2





Assembly View (representative model)

Installation Instructions Challengers® Models CH2659, CH2697, CH3536 Freestanding Glide Slide 48 in. - 72 in. (1219-1829 mm) Deck Height

Installation Preparation

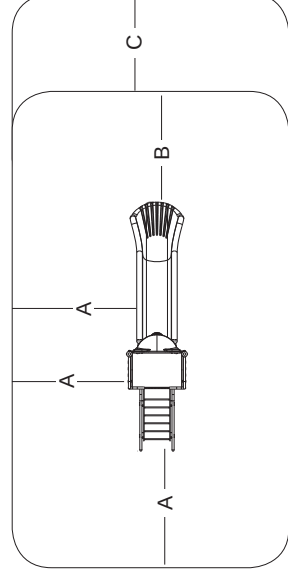
Recommended Crew:	Two (2) adults
Installation Time:	6 man-hours
Weight:	refer to table on the next page
Concrete Required:	0.35 cubic yard (0.27 cubic meters)
Use Zone:	Refer to information below
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

Slide Use Zones

A Side/Back Use Zone
ASTM - 72 in. (1829 mm)
CSA - 1800 mm
EN - 1500 mm, 1000 mm sides of bedway

B Runout Use Zone (A.S.T.M.) / (C.S.A.)
Height of Slide Entrance from
Surfacing or
ASTM - 72 in. (1829 mm) Minimum
96 in. (2438 mm) Maximum
CSA - 1800 mm Minimum
2400 mm Maximum
EN - 2000 mm

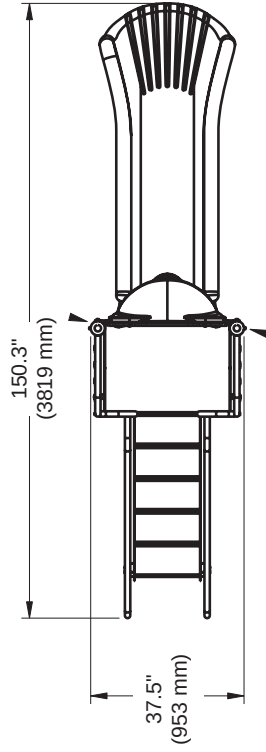
C No-encroachment Zone (CSA only)
for slides higher than 48" : 1800 mm



ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

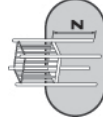
Installation Instructions

Model	Deck Height	Weight
ZZCH3536	48" (1220 mm)	405.8 lbs. (182.6 kg)
ZZCH2659	60" (1525 mm)	430.9 lbs. (195.9 kg)
ZZCH2697	72" (1830 mm)	477.2 lbs. (216.9 kg)



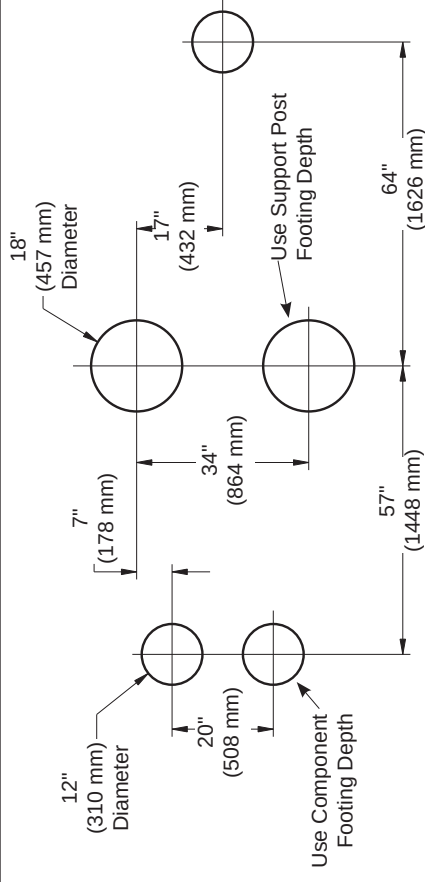
Surfacing Warning Label Orientation
(see arrows)

Top View

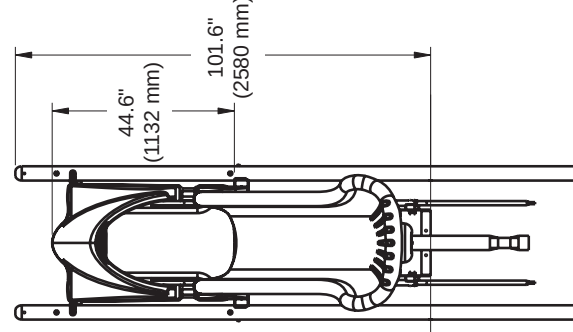
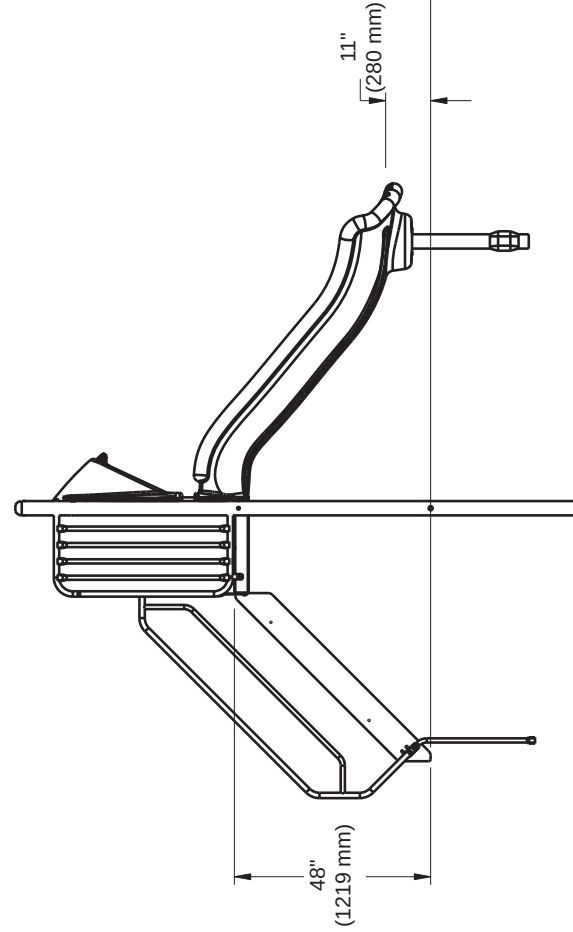


EN: 1220 mm

Footing Diagram



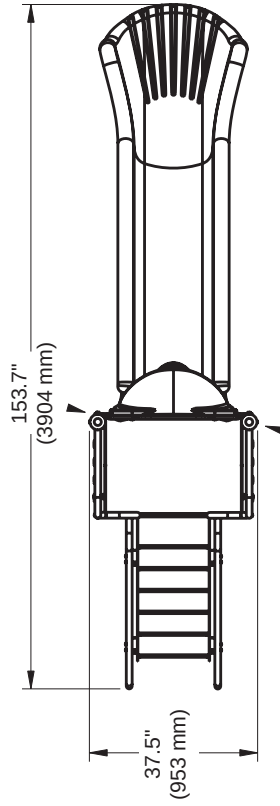
Concrete per support post:
0.13 cubic yard (0.09 cubic meter)
Concrete per component post:
0.03 cubic yard (0.02 cubic meter)



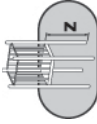
Step 3

Elevation Views 48" (1219 mm) Glide Slide CH3536

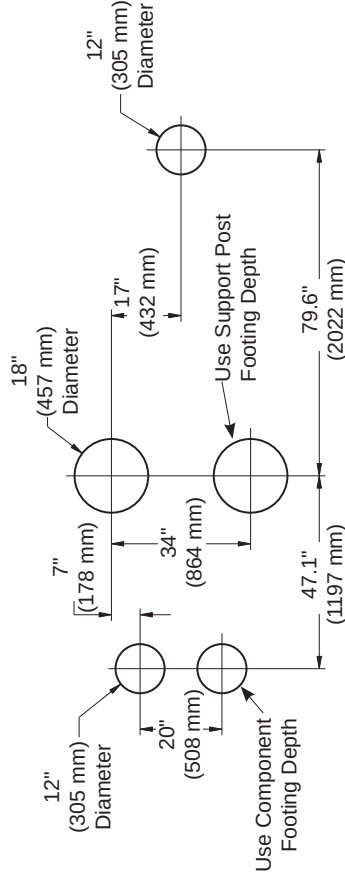
Installation Instructions



Top View

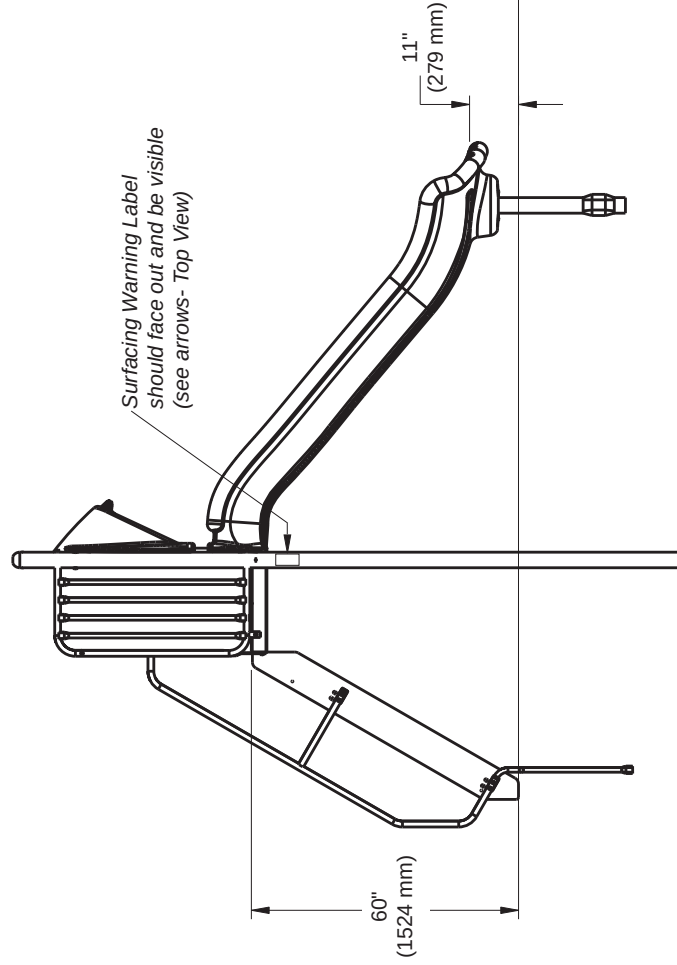


EN: 1500 mm

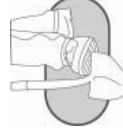


Footing Diagram

Concrete per support post:
 0.13 cubic yard (0.09 cubic meter)
 Concrete per component post:
 0.03 cubic yard (0.02 cubic meter)

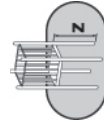
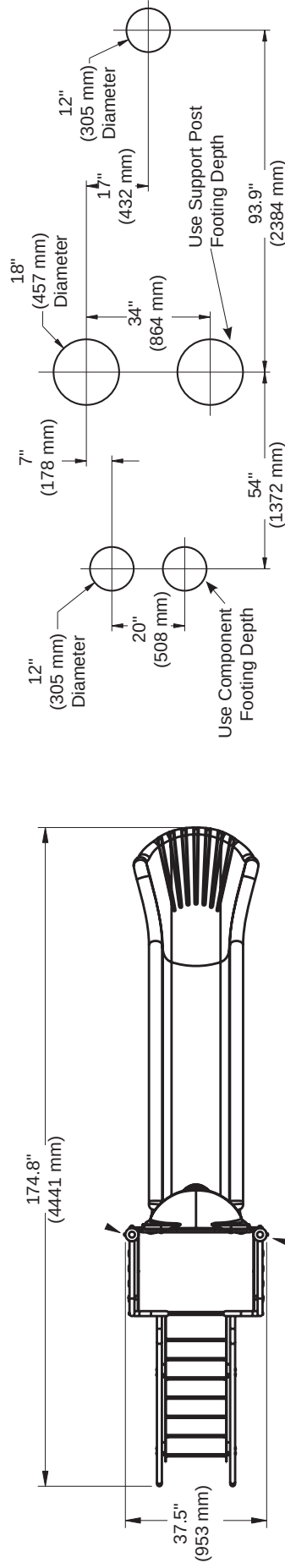


Elevation View: 60" 1524 mm) Glide Slide CH2659



Step 3

Installation Instructions

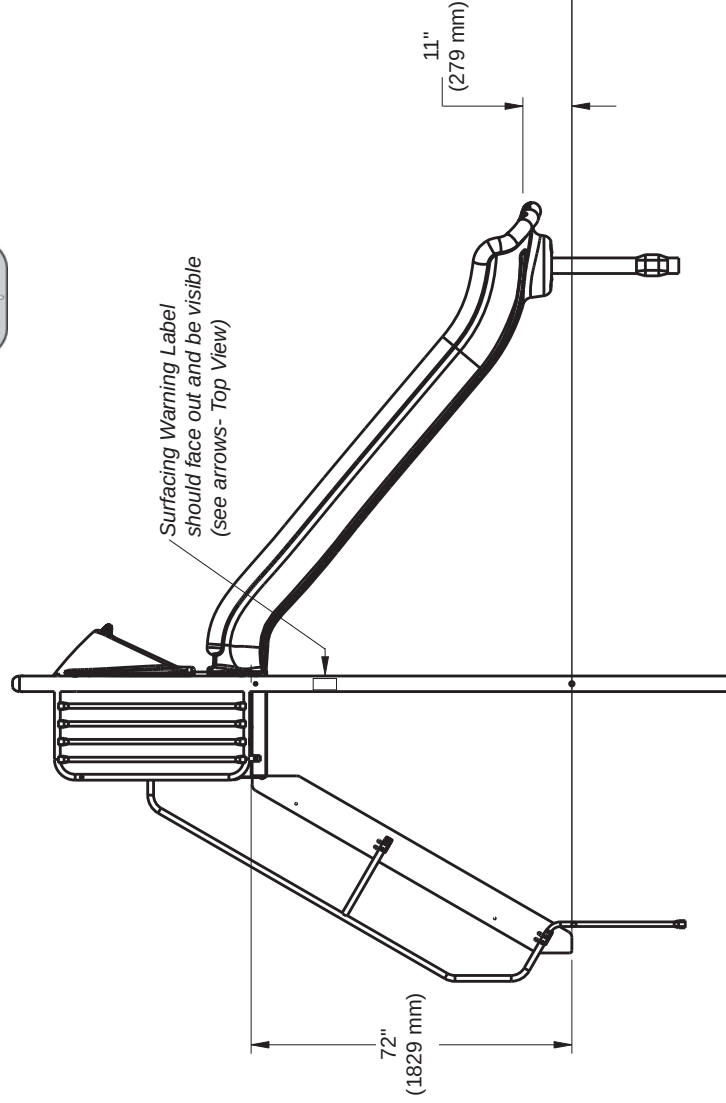


EN: 1830 mm

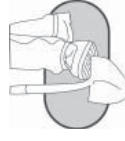
Top View

Footing Diagram

Concrete per support post:
 0.13 cubic yard (0.09 cubic meter)
 Concrete per component post:
 0.03 cubic yard (0.02 cubic meter)



Surfacing Warning Label
 should face out and be visible
 (see arrows- Top View)



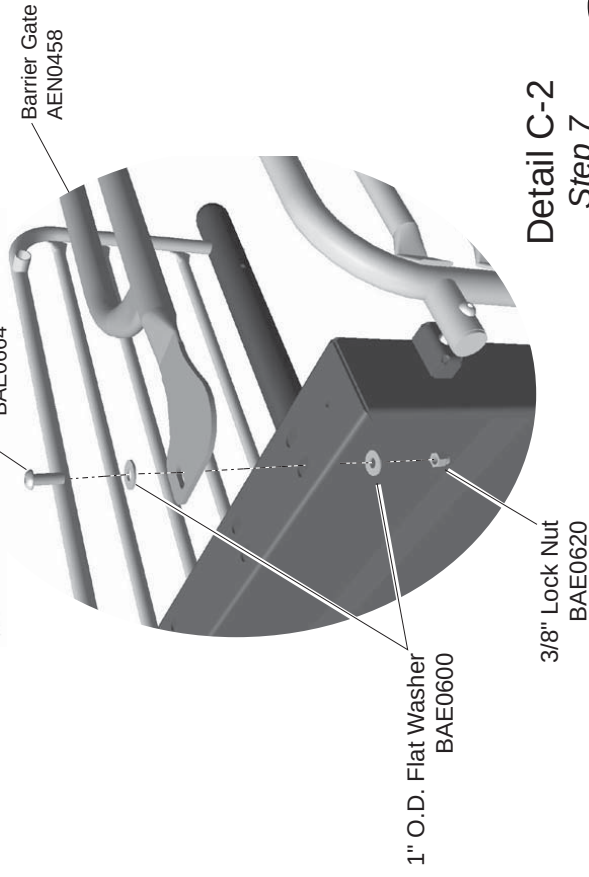
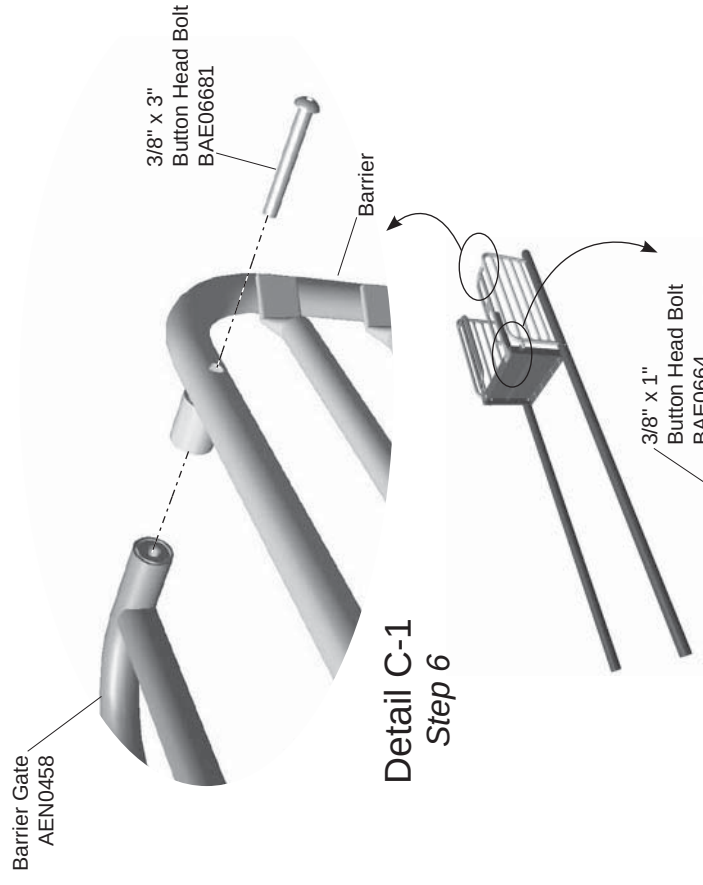
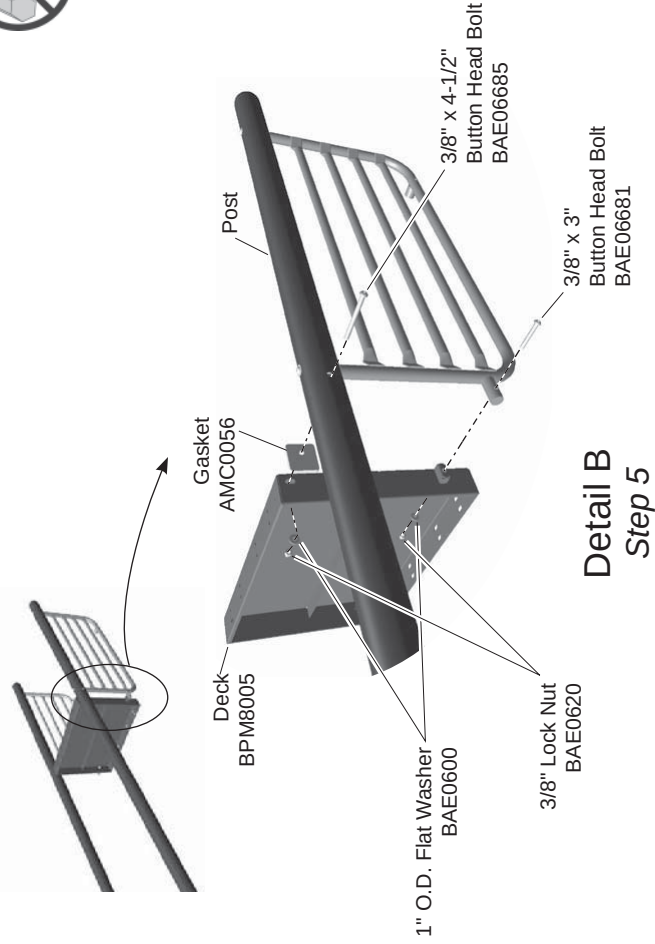
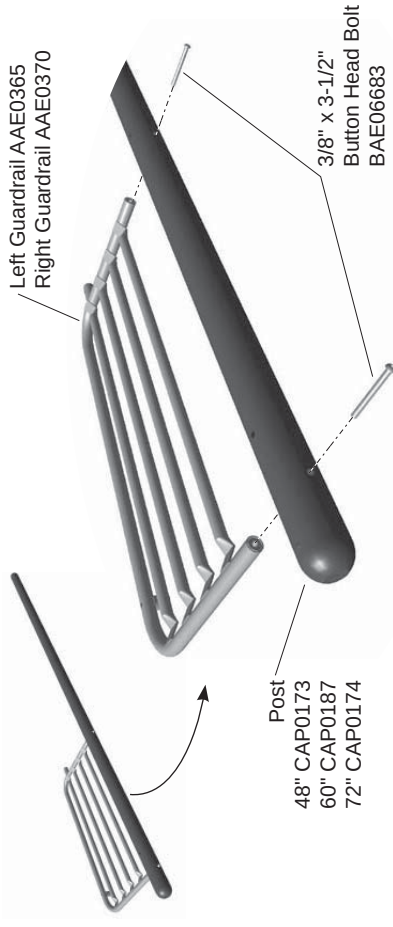
Step 3

Elevation View: 72" (1830 mm) Glide Slide CH2697

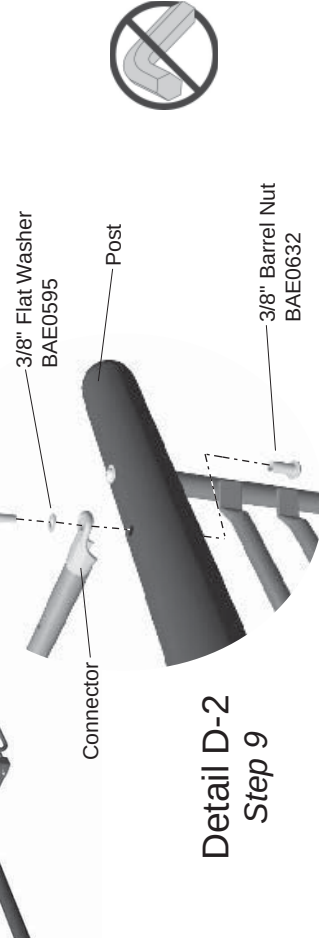
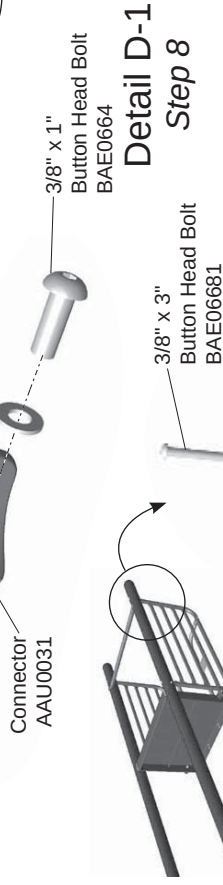
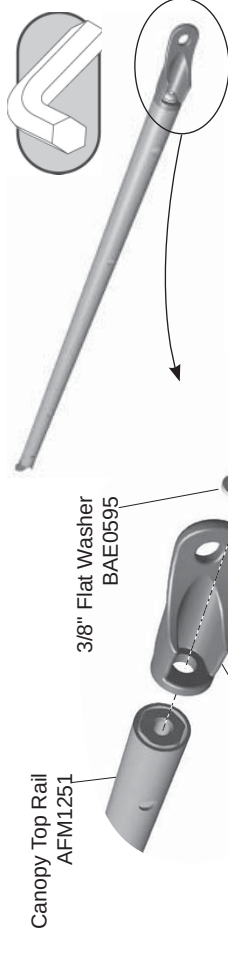


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



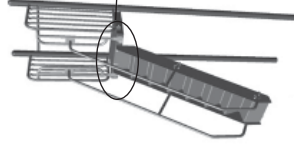
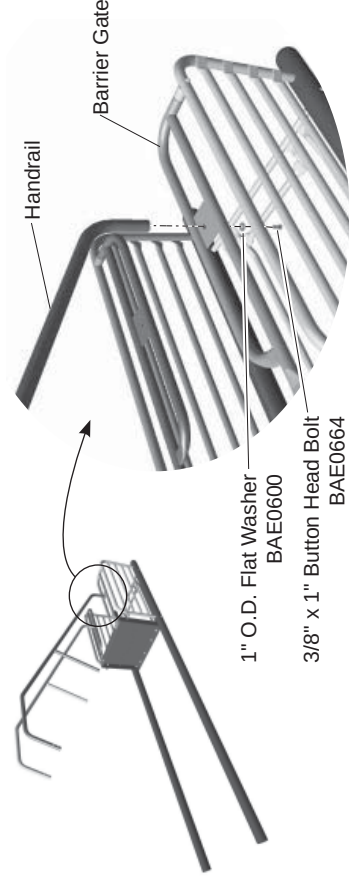
Installation Instructions



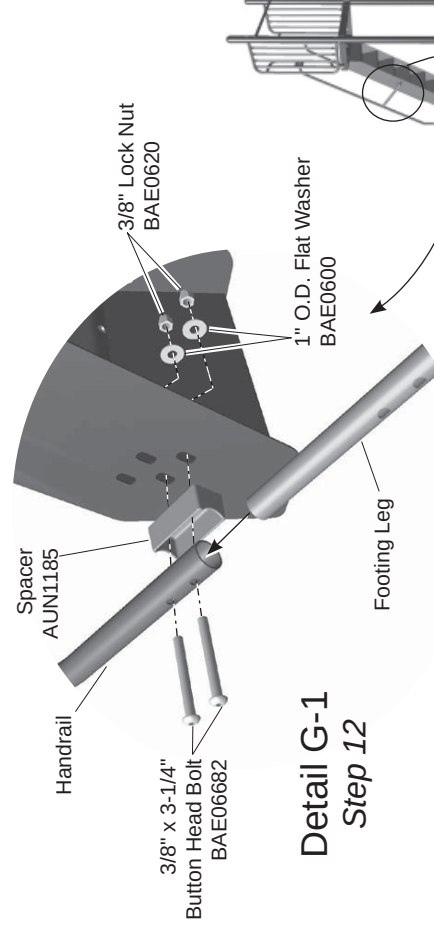
Detail D-2
Step 9

	CH3536	CH2659	CH2697
Stair / Ladder	BPM7155	BPM7025	BPM7035
Handrail	AUN1130	AUN1145	AUN1160
Footing Leg	AUN1170	AUN1180	AUN1180

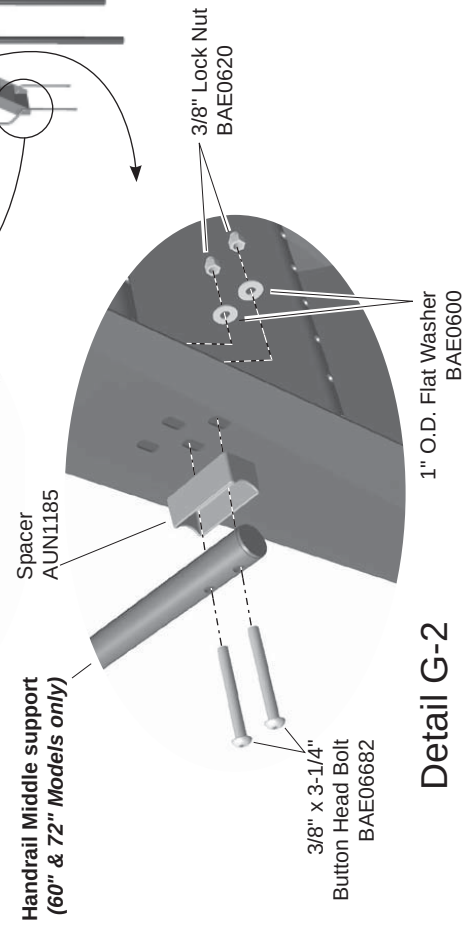
Detail E
Step 10



Detail F
Step 11

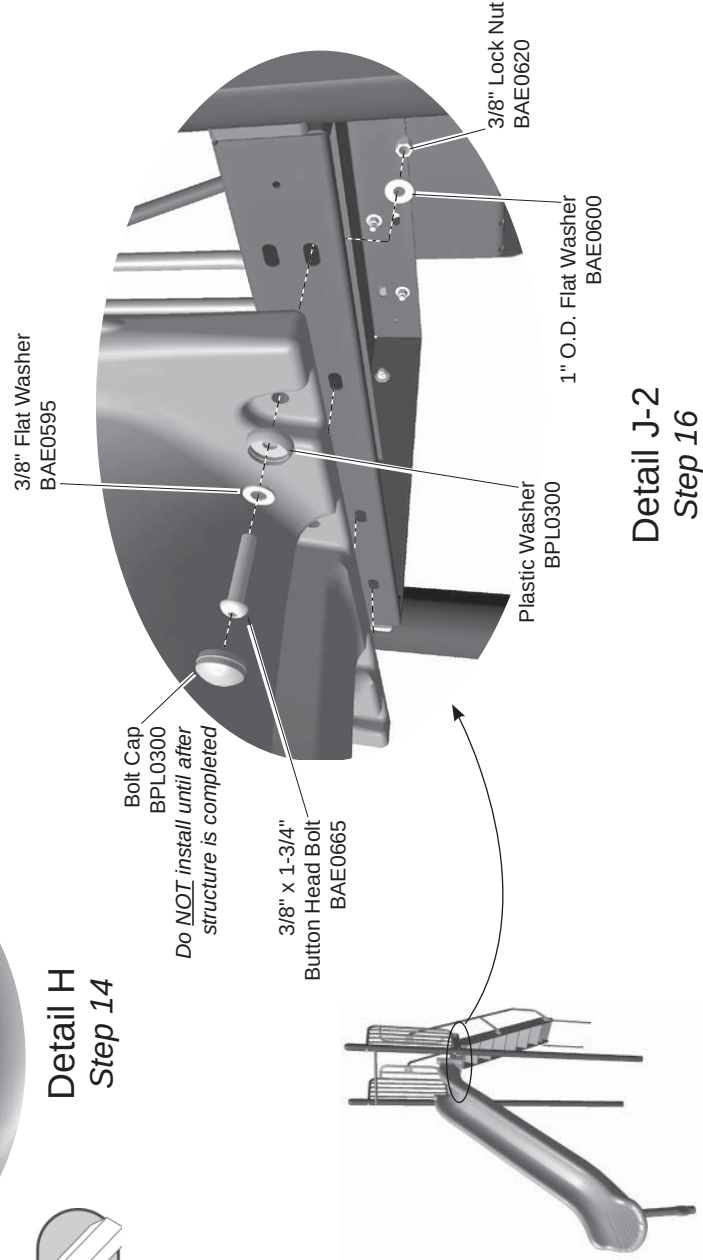
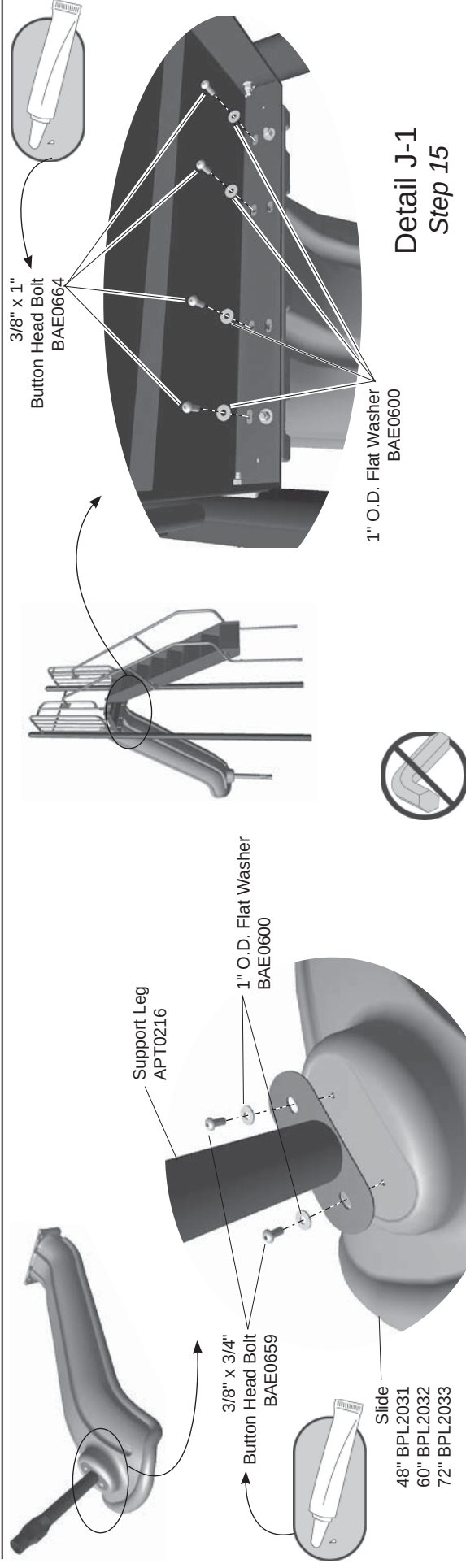


Detail G-1
Step 12

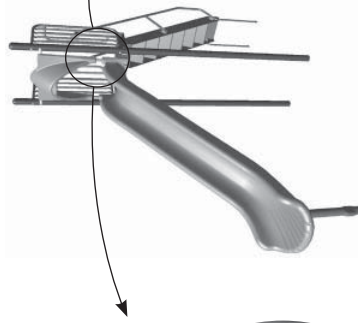


Detail G-2
Step 13

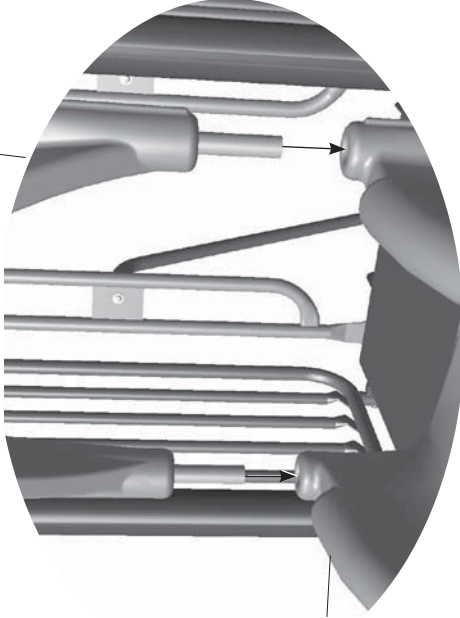
Installation Instructions



Installation Instructions



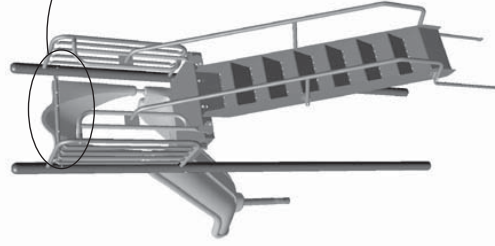
Canopy



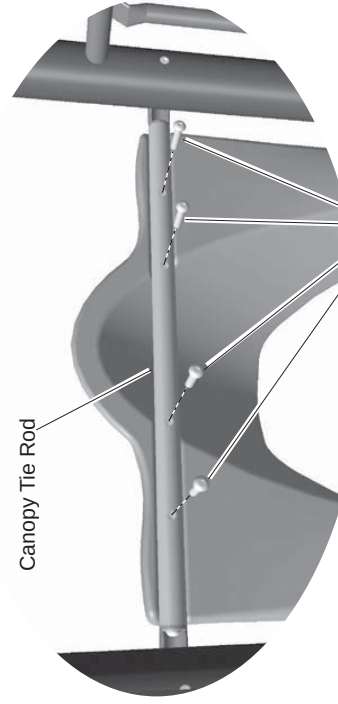
Slide



Detail K-1
Step 17

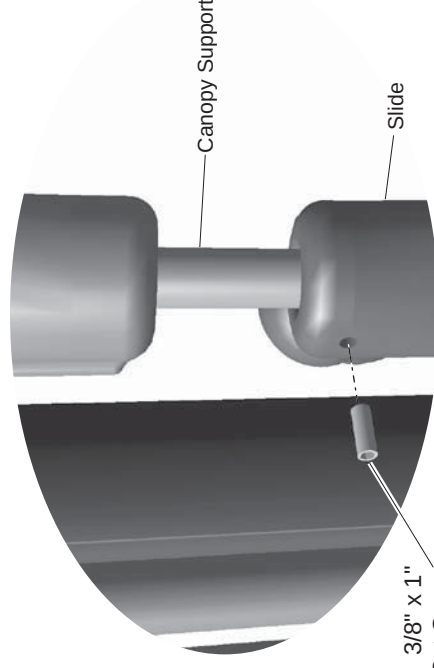


Canopy Tie Rod



3/8" x 1-3/4"
Button Head Bolt
BAE0665

Detail K-2
Step 17

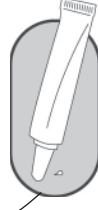


Canopy Support

Slide

3/8" x 1"
Set Screw
BAE0629

Detail L
Step 18



Step 19

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions. There is risk management information in the annex portion at the end of this document.

Step 2: Separate and identify all components and hardware. *Select the appropriate pieces by referring to the bill of materials and parts tables based on the height of the slide.*

Step 3: Excavate the footings as shown in the **Footing Details** in the annex of this document.

Note: The barriers and platform will be attached to the posts while flat on the ground and then lifted into position in **Step 11**.

Attach the side guardrails to the posts.

Step 4: Attach the guardrails to the support posts. See **Detail A**. Select the left and right side guardrails, both support posts, and the appropriate hardware. Align each guardrail with the upper holes in each post. Orient post so that Surfacing Warning Label is on the opposite side from the upper guardrail stub, and attach as shown.

Attach the posts to the platform.

Step 5: Attach the posts to the platform. See **Detail B**. Select the posts, the platform, both 2-3/4" x 3" gaskets, and the appropriate hardware. Align a gasket with the corner hole in each of the platform's short sides. Use adhesive tape to hold the gasket in place. Stand the platform on a long side with the extended tabs up. Position the post against the platform aligning the lowest post hole with the corner hole in the platform. The upper guardrail stubs should face the platform. Attach both guardrails as shown.

Attach the barrier gates to the guardrails and the platform.

Step 6: Attach the barrier gates to the guardrails. See **Detail C-1**. Select both gates and appropriate bolts. Align the top of each handrail barrier with the stub protruding from the top of the guardrail and attach as shown.

Step 7: Attach the handrail barriers to the platform. See **Detail C-2**. Select the appropriate hardware. Attach the bottom of each gate as shown.

Assemble and attach the top rail to the support posts.

Step 8: Attach the slide connectors to the top rail. See **Detail D-1**. Select the top rail, both connectors and the appropriate hardware. Place a connector on both ends of the top rail and attach as shown. Turn the connector tabs to face the same direction and fully tighten the connections.

Step 9: Attach the top rail to the support posts. See **Detail D-2**. Select the top rail assembly and the appropriate hardware. The top rail will act as a crosspiece to connect the support posts. Turn the platform assembly over to place the top rail on the posts, and attach as shown.

Attach the handrails to the barriers.

Step 10: Attach the handrails to the barriers. See **Detail E**. Select both handrails and the appropriate hardware. Place the top of each handrail against the tab on the gate and attach as shown. The handrails will need to be supported until they are attached to the ladder.

Attach the ladder to the platform and handrails.

Step 11: Using adequate manpower, lift the platform assembly up and place into the prepared footings. It will need to be braced until the handrails are footed and attached to the ladder. See **Detail F**. Select the ladder and the appropriate hardware. Position the ladder against the platform and attach using the **upper set of holes** in the ladder and platform. Support the base of the ladder with appropriate blocking.

Step 12: Attach the handrails to the base of the ladder. See **Detail G-1**. Select both footing legs, spacers, and the appropriate hardware. Place the handrail legs into the excavated footings. Slide each footing leg into the base of a handrail. Place a spacer between the ladder base and the handrail, and attach as shown using the lower holes in the ladder.

Step 13: (60" and 72" Slides only) Attach the middle handrail support to the ladder. See **Detail G-2**. Select (2) two spacers and the appropriate hardware. Place a spacer between the middle support and the lower holes in the ladder. Attach as shown, taking care to keep the spacer from protruding past the end of the handrail support.

Installation Instructions

Attach the exit support leg to the slide.

___ **Step 14:** Attach the exit support leg to the slide. See **Detail H**. Select the slide, the exit support post and the appropriate hardware. Position the support leg on the slide. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections.

Attach the slide to the platform.

___ **Step 15:** Attach the slide assembly to the platform. See **Detail J-1**. Select the slide and the appropriate hardware. There are (4) four connections. (1-2 alignment tools are helpful for this step.) Using adequate manpower, position your assembled slide against the platform with the support leg in the excavated footing. Place the alignment tools in the lower holes of the slide and platform. From the underside of the platform and using loctite on the bolt threads, attach the slide using the upper holes in the platform, as shown. *The middle of the slide bedway should be flush to, and level with the platform.* Leave connections loose for alignment adjustments.

___ **Step 16:** Make the lower attachments to the slide and platform. See **Detail J-2**. Select the appropriate hardware. There are (4) four connections. Attach the slide to the platform as shown. Do not attach the bolt caps until the slide is completely assembled and properly footed.

Attach the canopy.

___ **Step 17:** Attach the canopy to the top rail. See **Detail K-1** and **K-2**. Select the slide canopy and the appropriate hardware. Lift the canopy into position with flat side facing the platform, and insert the canopy supports into the sockets in the slide. Slide the canopy down until the supports are fully seated and the top rail rests in the indentation. Using a drop of loctite on the bolt threads, attach the rail to the canopy as shown.

Secure the lower canopy supports.

___ **Step 18:** Secure the lower canopy supports to the slide. See **Detail L**. Select (2) two 3/8" x 1" socket set screws. Apply a drop of loctite to the set screw threads and thread each screw into the slide until it secures the canopy support.

Note: It may be necessary to use a 3/8"-16 tap to clean excess plastic from the threaded insert to allow the screw to contact the canopy support.

Final Details.

___ **Step 19:** Plumb and level the entire component. Adjust the slide exit height according to the dimensions below. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

48" Slide (CH3536): The slide exit height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides (CH2659, CH2697): The slide exit height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

___ **Step 20:** Select the plastic bolt caps and press into the plastic washers. See **Detail J-2**. The bolt caps install more easily when they are warm.

___ **Step 21:** Apply the age appropriate label to the equipment in a visible location.

___ **Step 22:** Apply the hood string entanglement warning label to the slide.

Bill of Materials

CH3536 - FREESTANDING 48" (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAE0365	GUARDRAIL - FREESTANDING SLIDE (LEFT SIDE)	1
AAE0370	GUARDRAIL - FREESTANDING SLIDE (RIGHT SIDE)	1
AAU0031	CASTING - FREESTANDING GLIDE SLIDE	2
AEN0458	BARRIER - 42.07" x 7.75" GATE w/MOUNTING PLATE	2
AFM1251	FAB. METAL - 1.315" O.D. x 28.88" w/ 2 INS & 4 HOLES	1
AMC0056	MISCELLANEOUS - 2-3/4" x 3" GASKET w/1 HOLE	2
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
AUN1130	HANDRAIL - 48" STAIR	2
AUN1170	ANCHOR - 45 DEG. STAIR FOOTING LEG	2
AUN1185	SPACER - STAIR & LADDER	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1-1/4 BARREL w/PATCH	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BAE0922	TOOL - TT 45 L WRENCH	1
BAE0906	TOOL - 5/16" SHORT HEX KEY WRENCH	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	4
BAE06685	BOLT - 3/8"-16 x 4-1/2" BUTTON HEAD - SS	2
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
BPM7155	STAIR - 48" COATED PERF. w/SMALL HOLES	1
BPM8005	PLATFORM - COATED PERF. FS w/SM HOLES	1
CAP0173	POST-3-1/2" O.D. x 136" GLIDE SLIDE w/CAP & LBL AT 36"	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH2659 - FREESTANDING 60" (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAE0365	GUARDRAIL - FREESTANDING SLIDE (LEFT SIDE)	1
AAE0370	GUARDRAIL - FREESTANDING SLIDE (RIGHT SIDE)	1
AAU0031	CASTING - FREESTANDING GLIDE SLIDE	2
AEN0458	BARRIER - 42.07" x 7.75" GATE w/MOUNTING PLATE	2
AFM1251	FAB. METAL - 1.315" O.D. x 28.88" w/ 2 INS & 4 HOLES	1
AMC0056	MISCELLANEOUS - 2-3/4" x 3" GASKET w/1 HOLE	2
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
AUN1145	HANDRAIL - 60" LADDER	2
AUN1180	ANCHOR - 60° STAIR FOOTING LEG	2
AUN1185	SPACER - STAIR & LADDER	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1-1/4 BARREL w/PATCH	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BAE0922	TOOL - TT 45 L WRENCH	1
BAE0906	TOOL - 5/16" SHORT HEX KEY WRENCH	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	8
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	4
BAE06685	BOLT - 3/8"-16 x 4-1/2" BUTTON HEAD - SS	2
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
BPM7025	LADDER - 60.00" - COATED	1
BPM8005	PLATFORM - COATED PERF. FS w/SM HOLES	1
CAP0187	POST-3-1/2" O.D. x 148" GLIDE SLIDE w/CAP & LBL AT 36"	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH2697 - FREESTANDING 72" (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAE0365	GUARDRAIL - FREESTANDING SLIDE (LEFT SIDE)	1
AAE0370	GUARDRAIL - FREESTANDING SLIDE (RIGHT SIDE)	1
AAU0031	CASTING - FREESTANDING GLIDE SLIDE	2
AEN0458	BARRIER - 42.07" x 7.75" GATE w/MOUNTING PLATE	2
AFM1251	FAB. METAL - 1.315" O.D. x 28.88" w/ 2 INS & 4 HOLES	1
AMC0056	MISCELLANEOUS - 2-3/4" x 3" GASKET w/1 HOLE	2
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
AUN1160	HANDRAIL - 72" LADDER	2
AUN1180	ANCHOR - 60° STAIR FOOTING LEG	2
AUN1185	SPACER - STAIR & LADDER	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1-1/4 BARREL w/PATCH	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BAE0922	TOOL - TT 45 L WRENCH	1
BAE0906	TOOL - 5/16" SHORT HEX KEY WRENCH	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	8
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	4
BAE06685	BOLT - 3/8"-16 x 4-1/2" BUTTON HEAD - SS	2
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
BPM7035	LADDER - 72.00" - COATED	1
BPM8005	PLATFORM - Coated PERF. FREESTANDING w/SM HOLES	1
CAP0174	POST-3-1/2" O.D. x 160" GLIDE SLIDE w/CAP & LBL AT 36"	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

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Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Slide

- Inspect entire sliding surface for obstructions, sharp points, cracks or jagged edges. If any damage to sliding surface is detected and is determined to be unsafe, barricade component to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.
- Inspect the exit region of slide for standing water. If standing water is detected, lower the exit region to provide a downward slope.
Note: This will require the footing of the end support leg to be adjusted deeper.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the connectors and spacers to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.
To repair the coating, contact the Playworld Systems' Customer Service Department for a coated repair touch-up kit.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

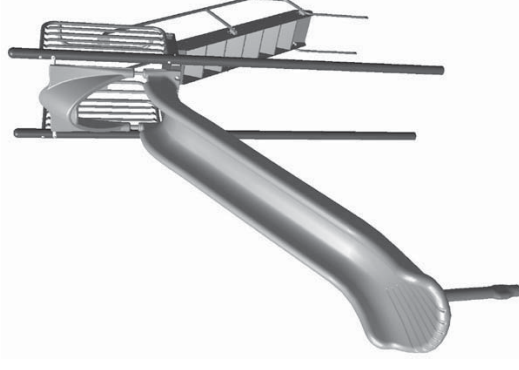
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Challengers® Models CH2659, CH2697, CH3536 Freestanding Glide Slide 48 in. - 72 in. (1219-1829 mm) Deck Height



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Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect clamps for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect sliding surface for obstructions and damage.	High			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.

- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

- If the stationary play equipment contains a slide (or slides), the use zones of the slide (or slides) may not be overlapped by the use zones of adjacent play equipment.

- **ASTM compliance:** The use zone on the back and sides of the slide shall extend a minimum of 72 inches (1829 mm). The use zone in front of the slide exit shall be a minimum of 72 inches (1829 mm) and shall not exceed 96 inches (2438 mm). The use zone shall be measured from the end of the slide and equal the vertical measurement as measured from the highest point of the sliding surface to the protective surfacing at the slide exit. **Example:** If the highest point of the sliding surface is 73.5 inches (1867 mm), the use zone in front of the slide exit should measure 73.5 inches (1867 mm). The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart.

- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter. The use zone in front of the slide exit shall be a minimum of 1800 mm and shall not exceed 2400 mm. That use zone shall be measured from the end of the slide and equal the vertical measurement as measured from the highest point of the sliding surface to the protective surfacing at the slide exit.

A no-encroachment zone is also required for the exit of a slide higher than 48" (1219 mm). In addition to the use zone measurement at the runout of the slide, the no-encroachment zone will extend an additional 1800 mm and may not be overlapped by the use or no-encroachment zones of adjacent play equipment.

- **EN compliance:** The use zone at the end of the slide runout will be at least 2000 mm for Type 1 slides. (All Playworld Systems slides are Type 1) There shall be a free space around the slide bedway of 1000 mm on either side. The use zone around the back and sides of the entry platform shall be 1500 mm.

- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

Guidelines

- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbercy. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Guidelines & Information (fs slide)

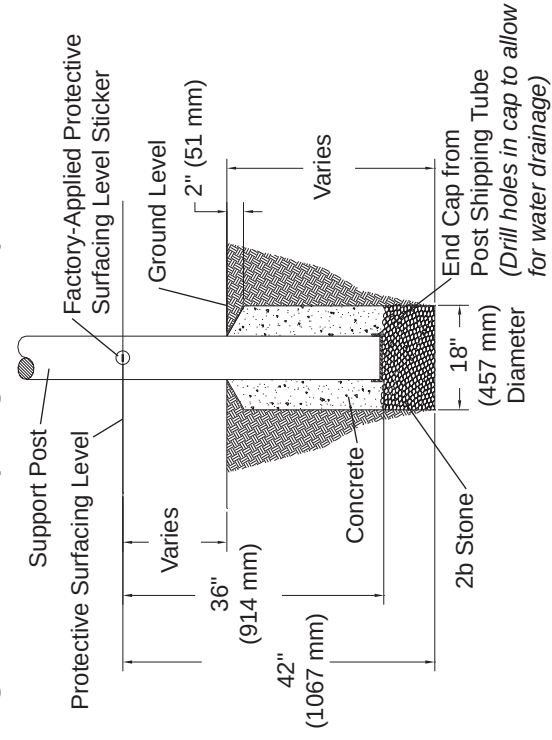
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

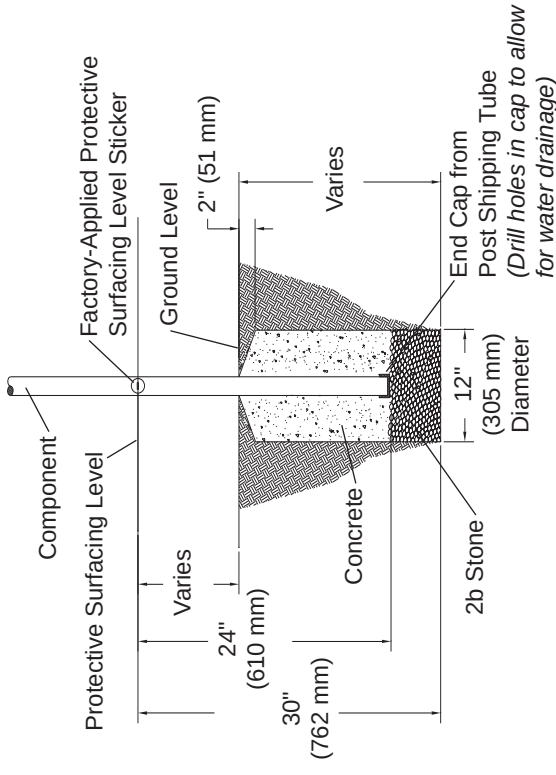
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

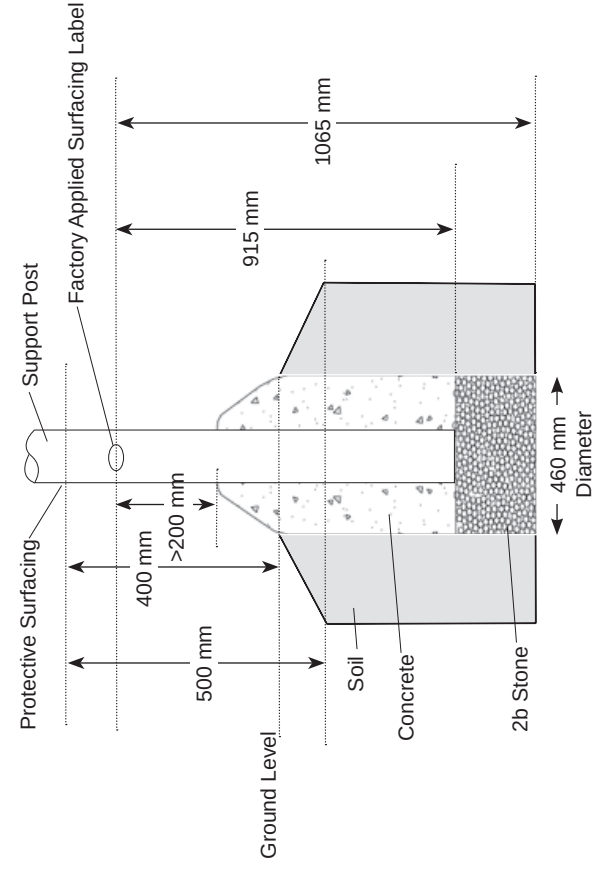
Footing Details (in ground)



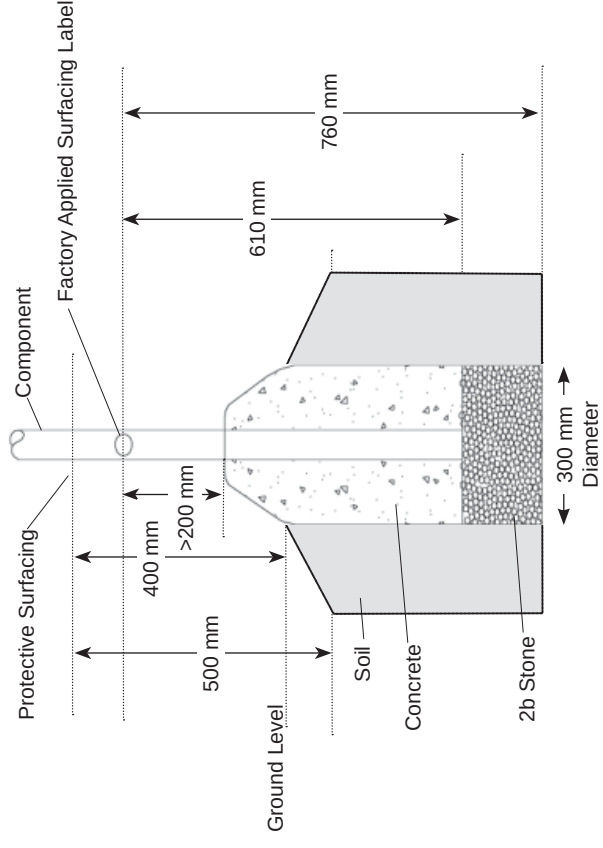
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)



Footing Detail - Support Post (EN)



Footing Detail - Component Post (EN)

Footling Notes & Details

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete. Generally, this will be used for the posts supporting the platform.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete. Generally, this will be used for the slide exit and the bedway supports.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.

- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.

- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

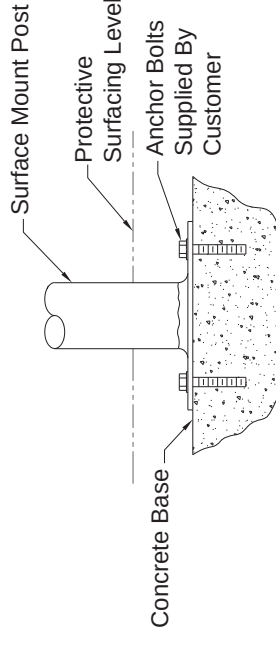
For example:

- If local soil is loose or unstable, a larger footing may be required.
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- The base of the footing must be below the frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Guidelines & Information (fs slide)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

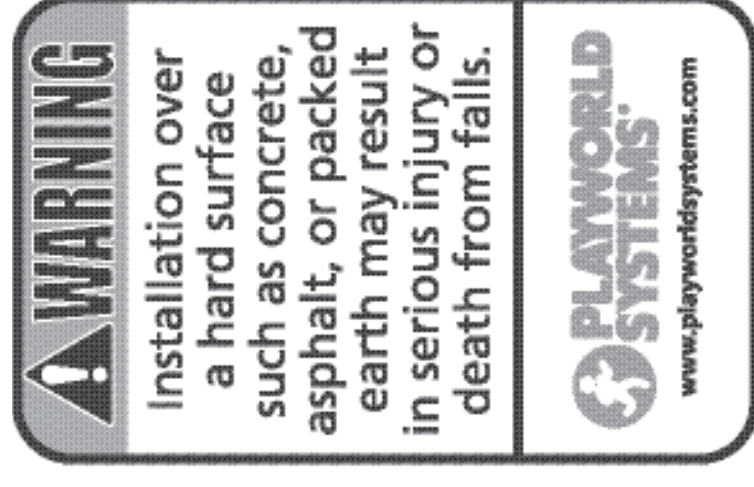
- The footing size may vary due to local soil and weather conditions.

- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



PLAYWORLD SYSTEMS®

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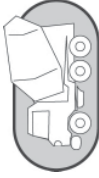
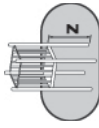
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

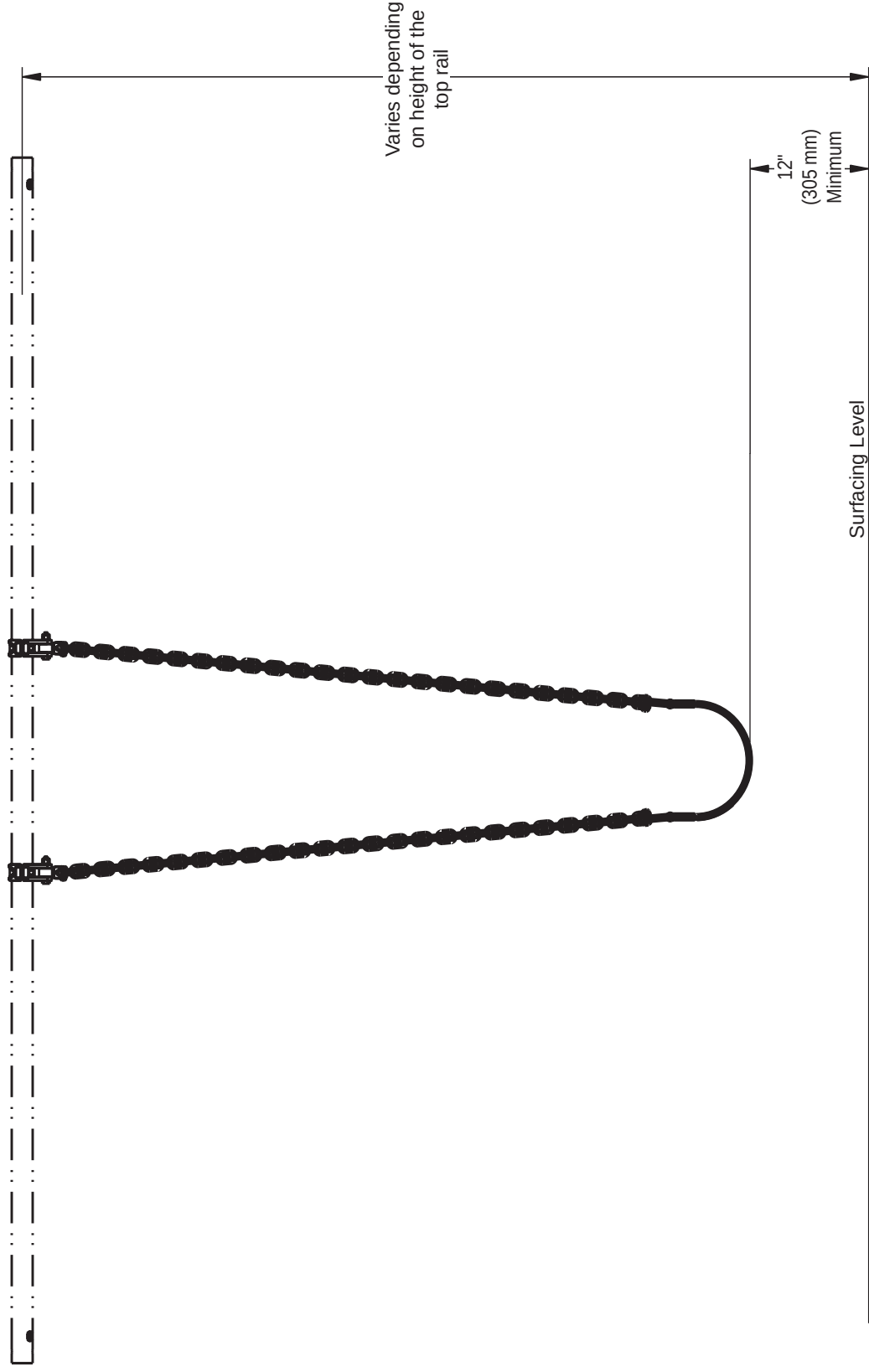
Installation Instructions Playworld Systems® Models XX0260, XX0261, & XX0324 Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

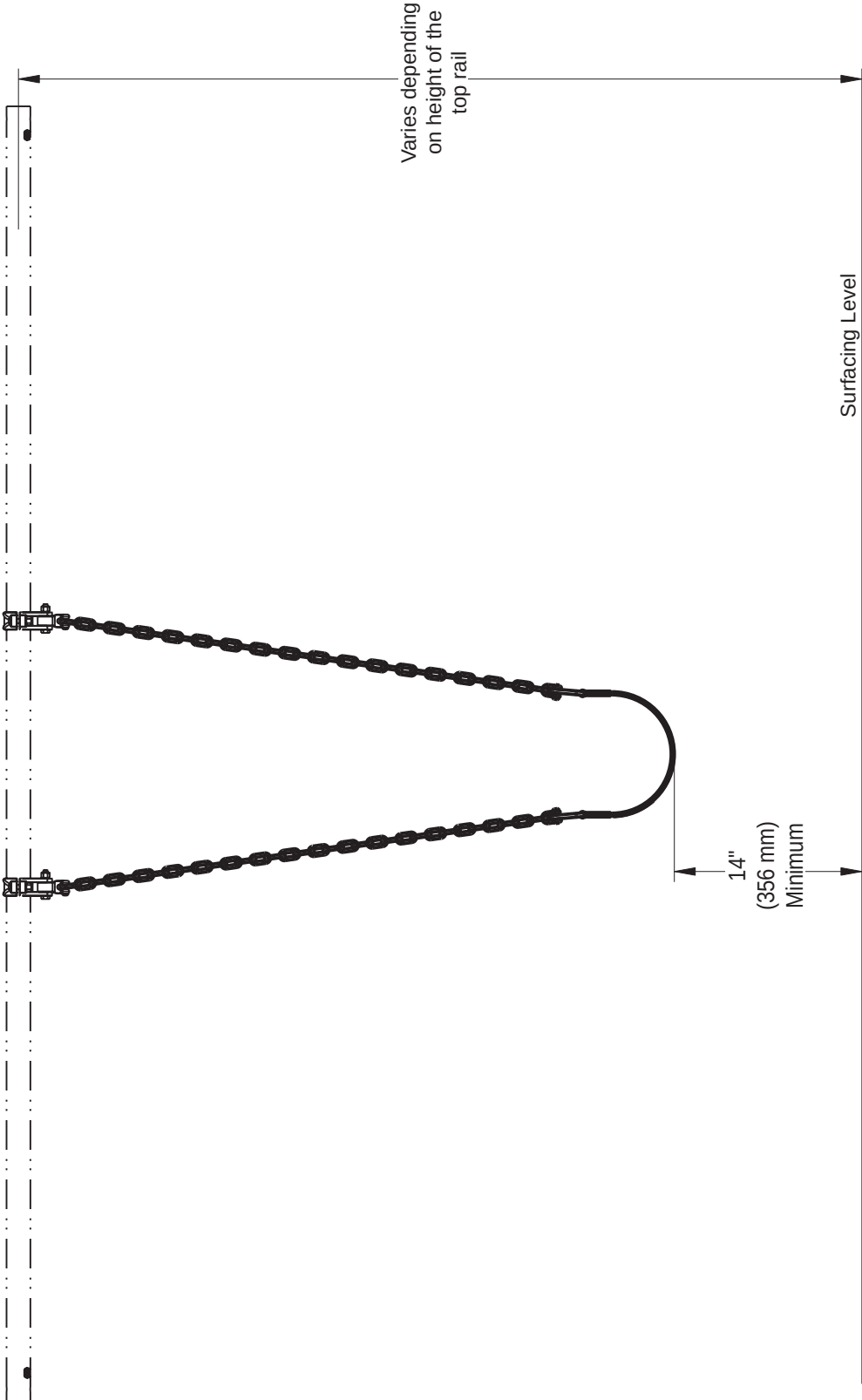


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



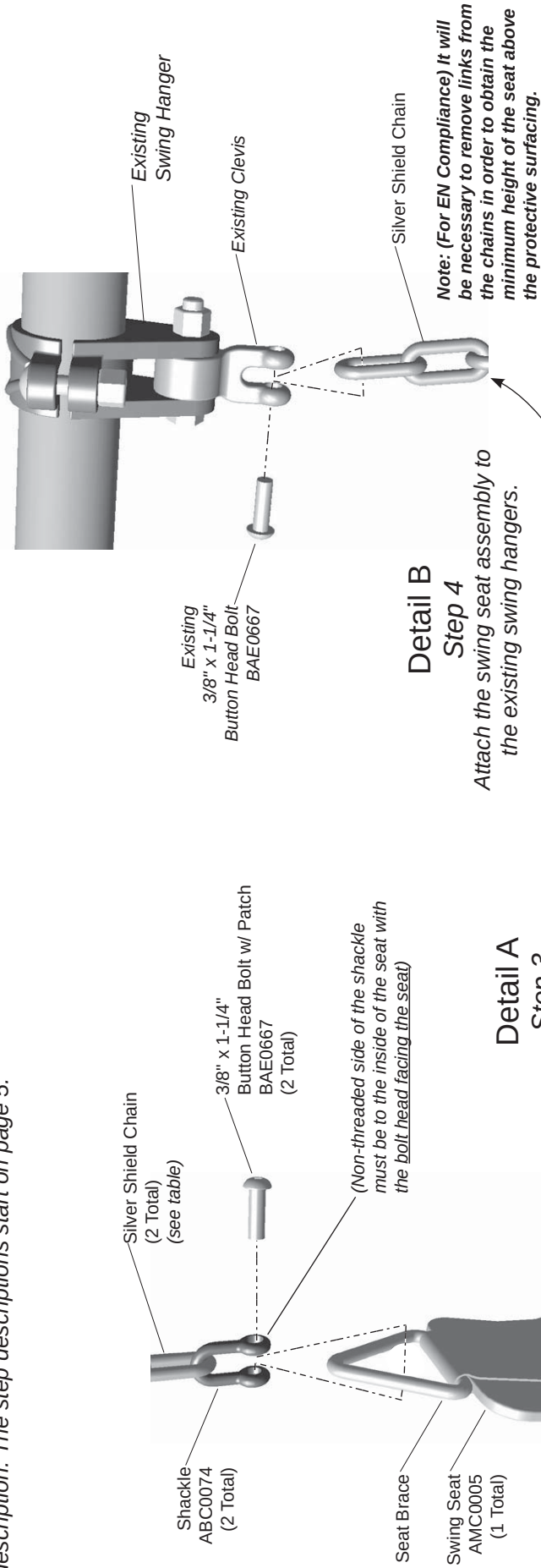
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B
Step 4

Attach the swing seat assembly to the existing swing hangers.

Detail A
Step 3

Attach the swing seat to the swing chains.

Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.
Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
 - To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

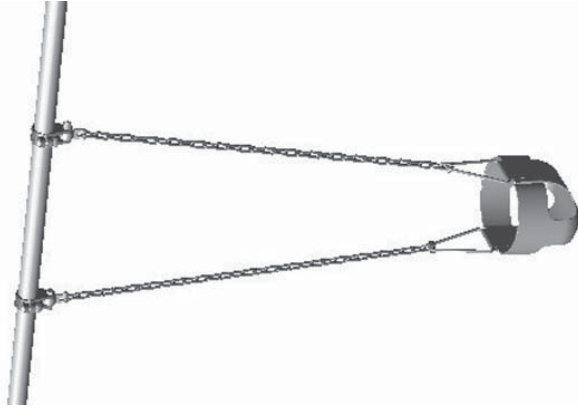
Date: ____ / ____ / ____





PLAYWORLD SYSTEMS®

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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

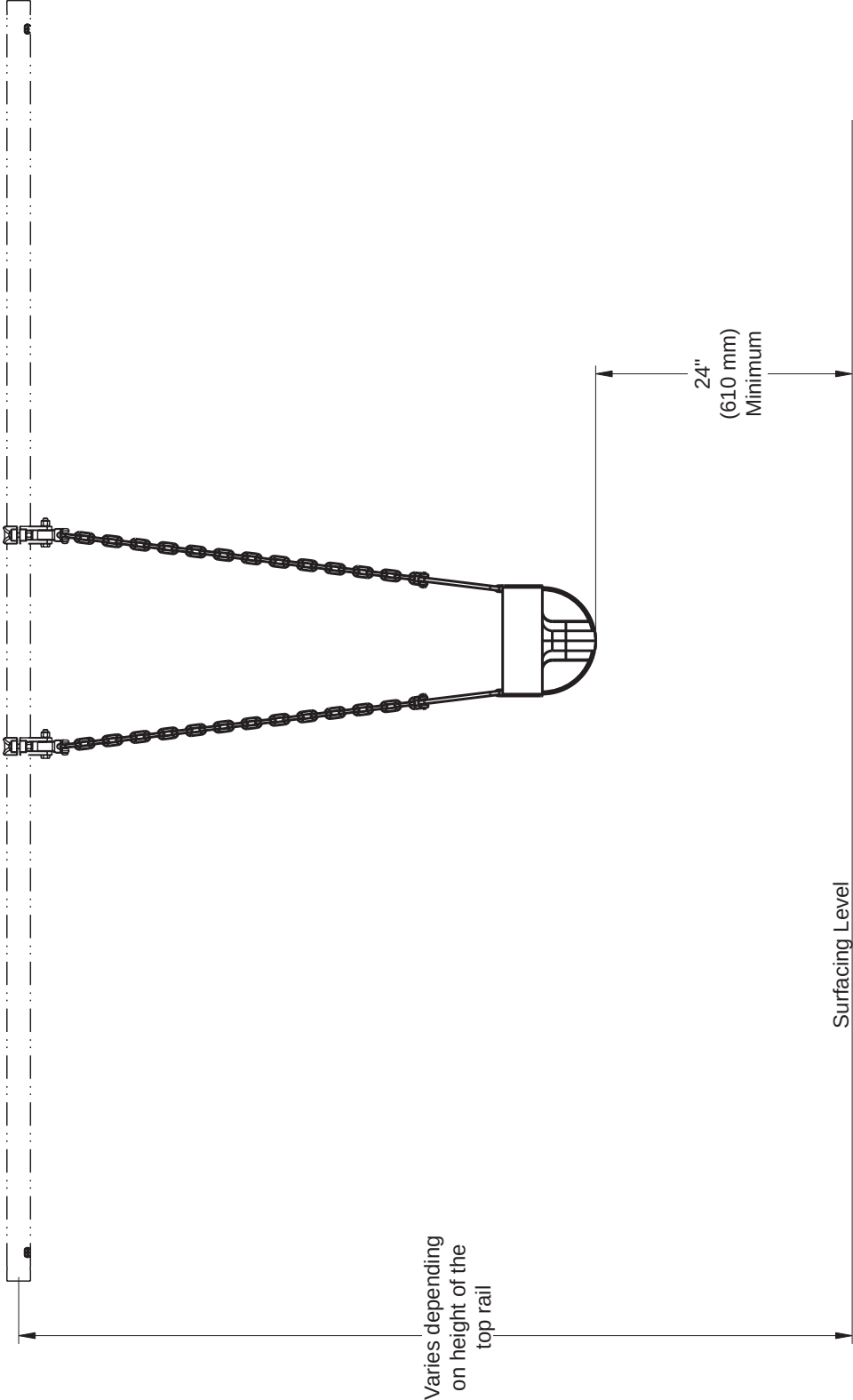
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions



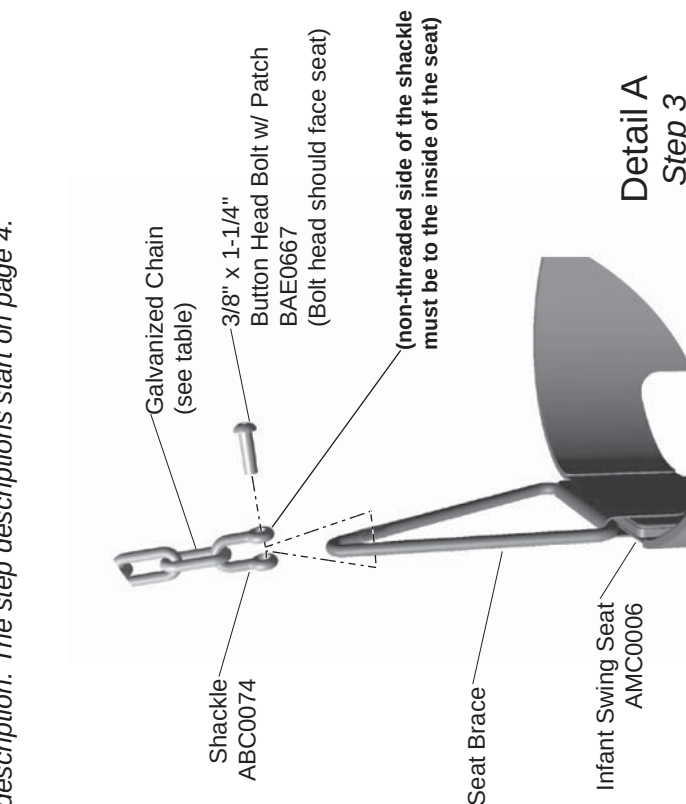
Elevation View

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

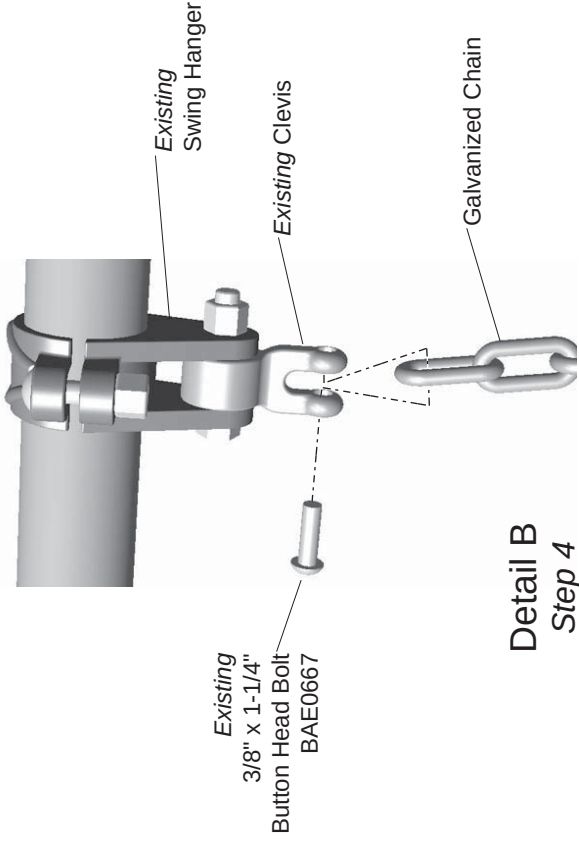


Installation Instructions

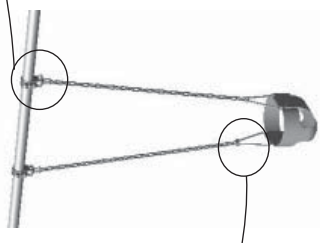
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 3



Detail B
Step 4



Reference A/B



Step 5

Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

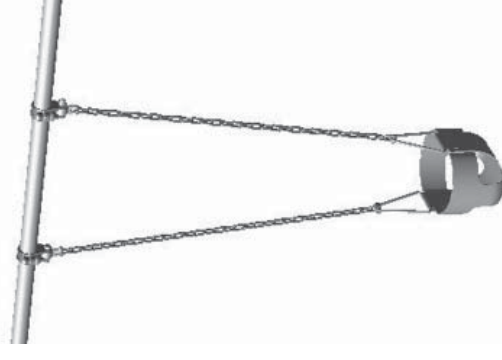
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®
Models XX0265, XX0266,
& XX0325
Infant Swing Seat with
Galvanized Chain



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

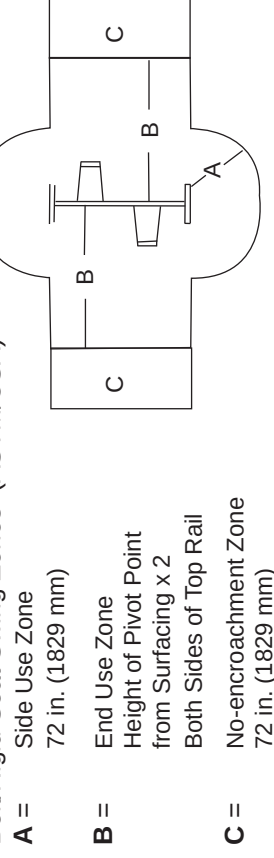
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

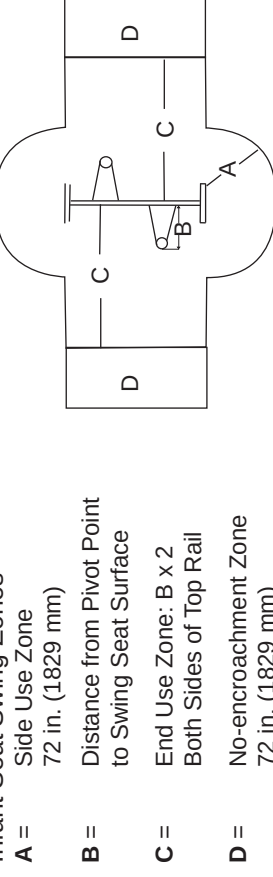
Belt/Rigid Seat Swing Zones (ASTM/CSA)



- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)

- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)

Installation Instructions

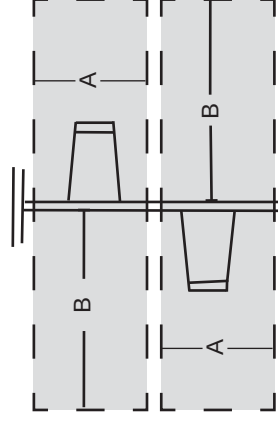
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

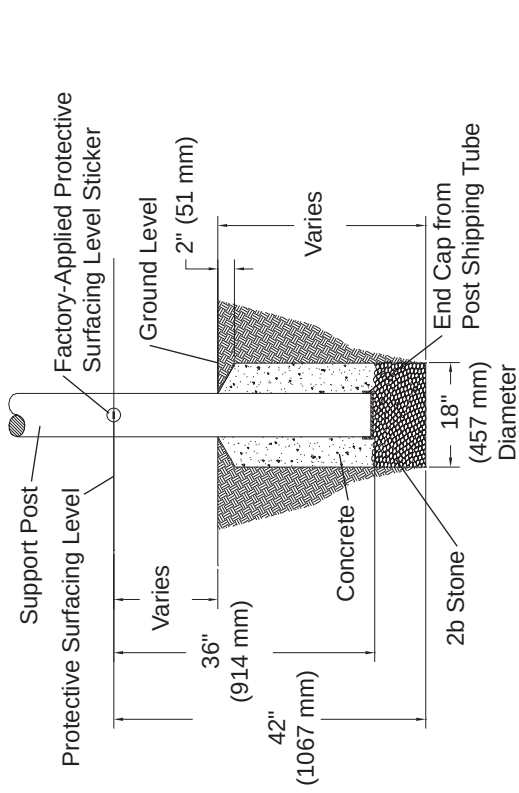
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

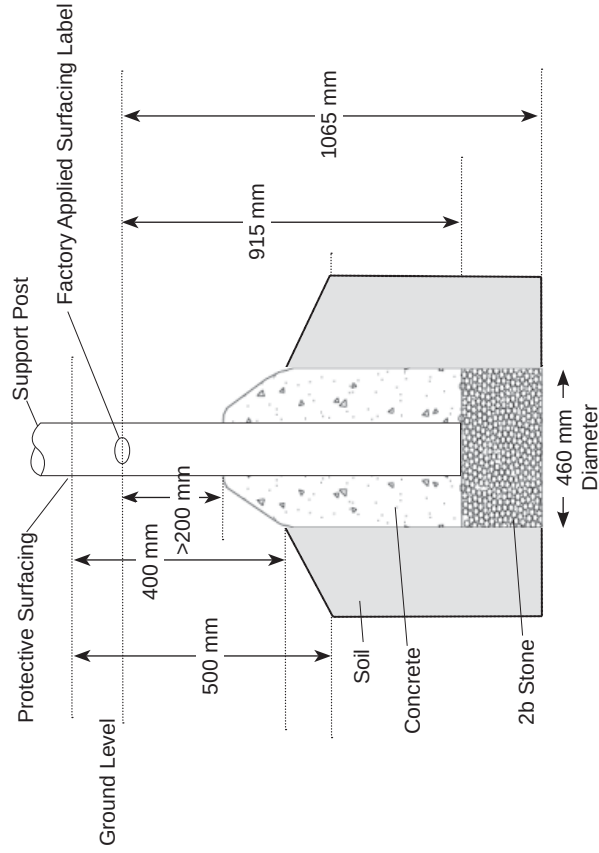
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

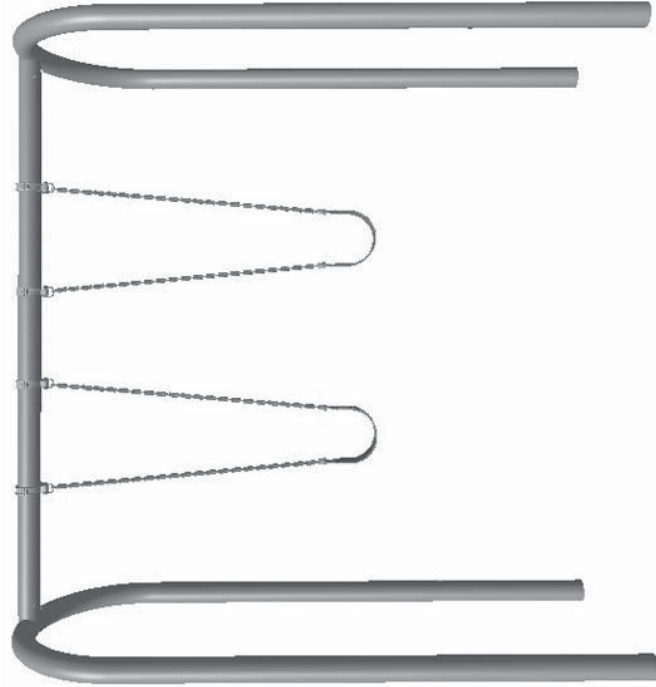
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



PLAYWORLD SYSTEMS®

The world needs play.™



Assembly View (representative model)

Installation Instructions

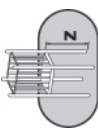
Playworld Systems® Model XX0287

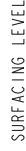
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Page 6 of 14

tot seat - 1545 mm (with seat at 610 above surfacing)

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

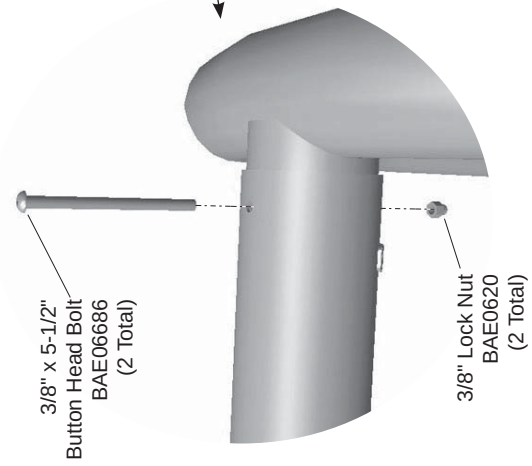
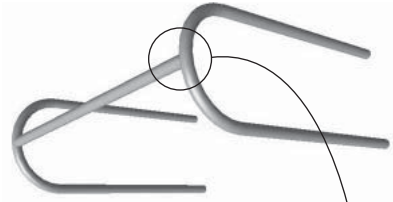
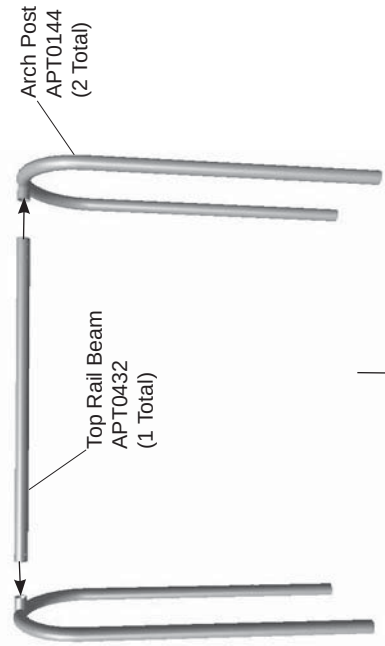


Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



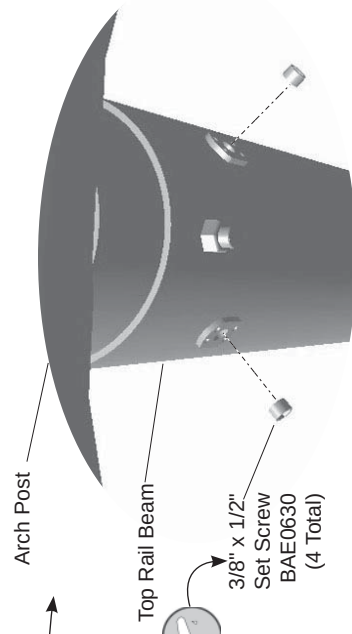
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the top rail to the arch posts.

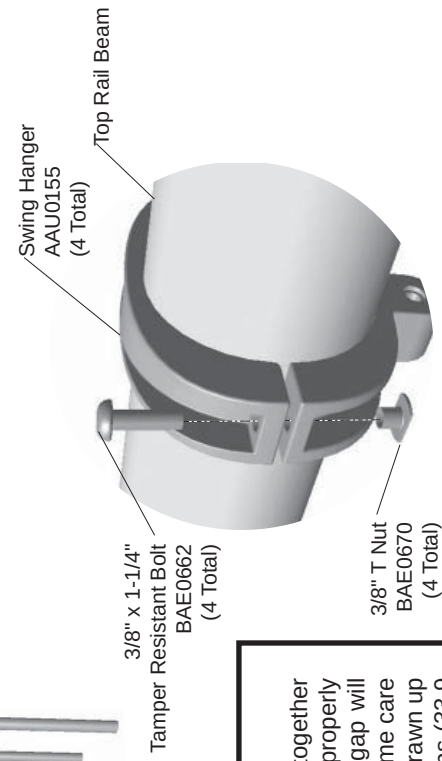


Underneath View



Detail B
Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Detail C
Step 8

Attach swing hangers to the top rail.

CAUTION

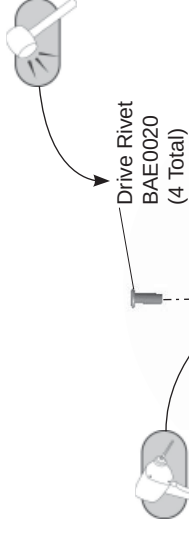
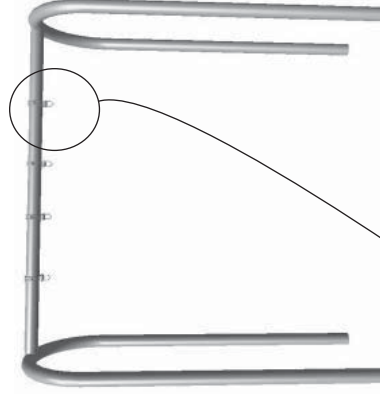
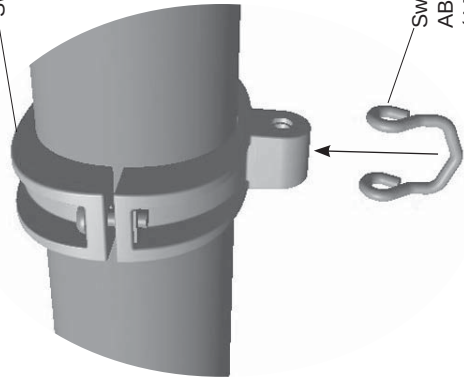
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

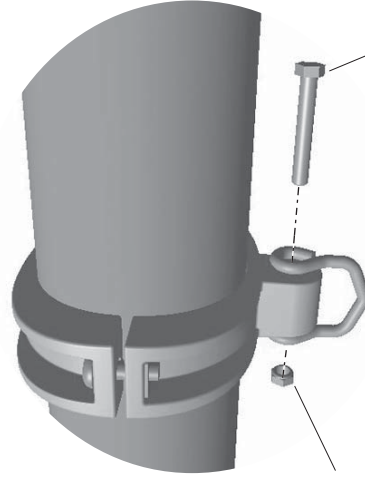
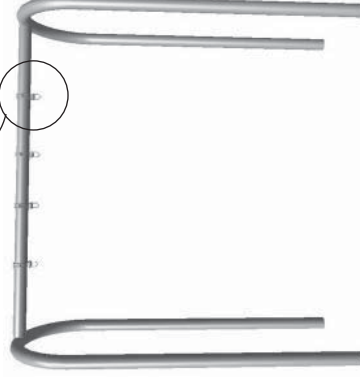
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

Swing Hanger



Detail E
Step 12
Secure the swing hangers to the top rail.



Detail D
Step 9

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


**PLAYWORLD
SYSTEMS®**

The world needs play.™

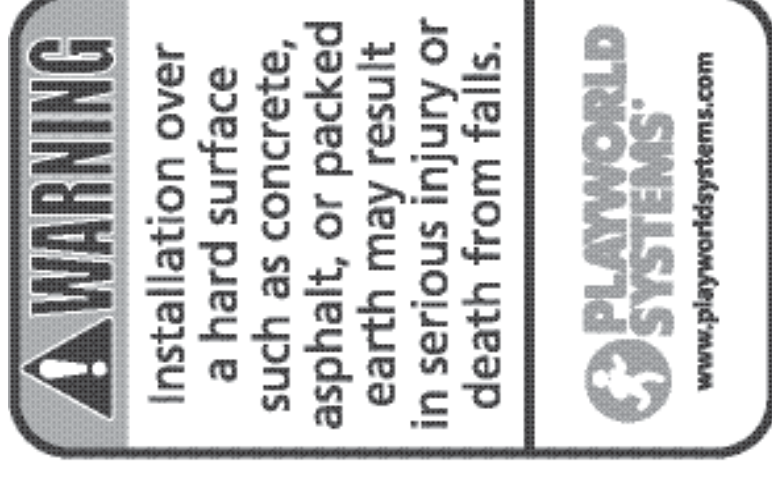
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

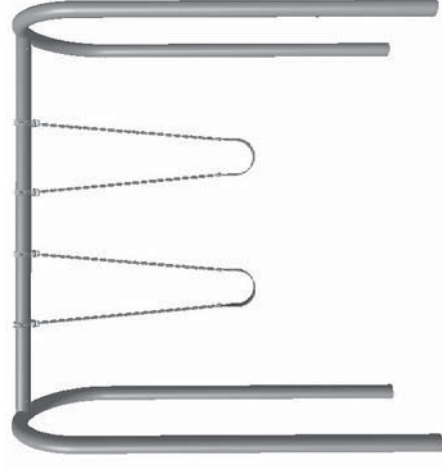
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing

8 ft. (2438 mm) Top Rail



The world needs play.™

For Customer Service, Call

800-233-8404 or

570-522-9800 OUTSIDE U.S.

1000 Buffalo Road • Lewisburg, PA 17837

www.playworldsystems.com



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

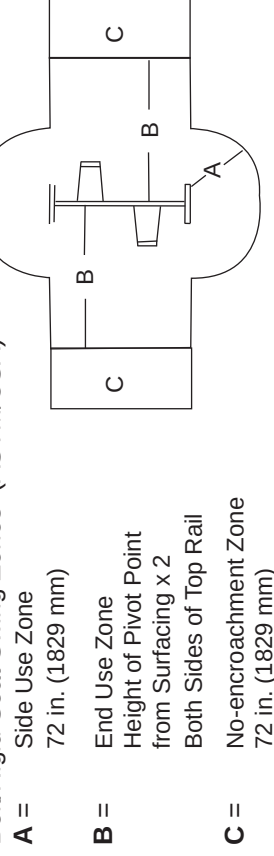
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

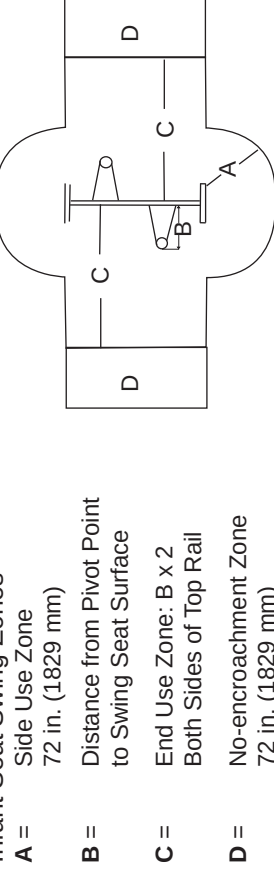
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



Installation Instructions

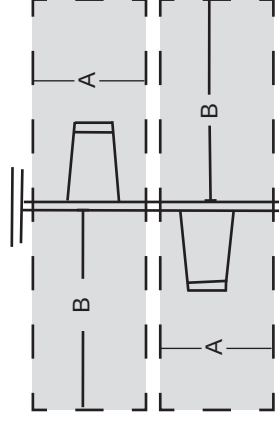
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

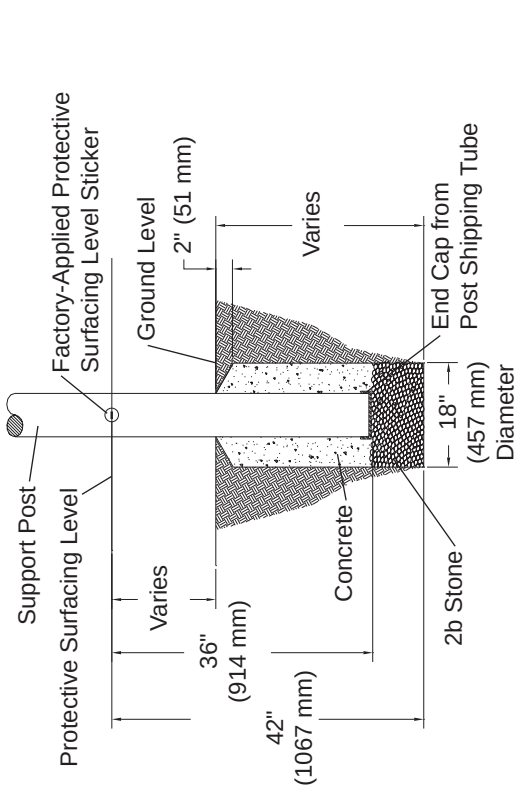
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

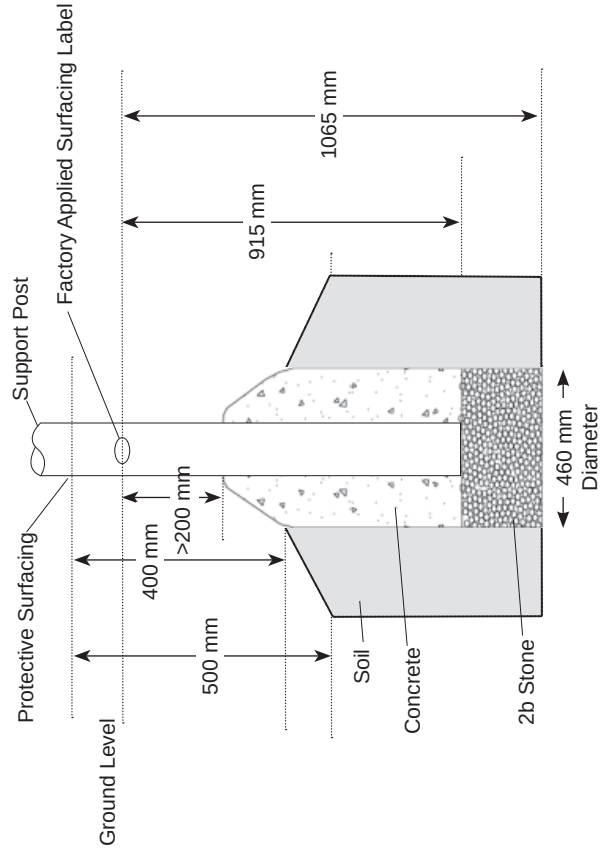
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

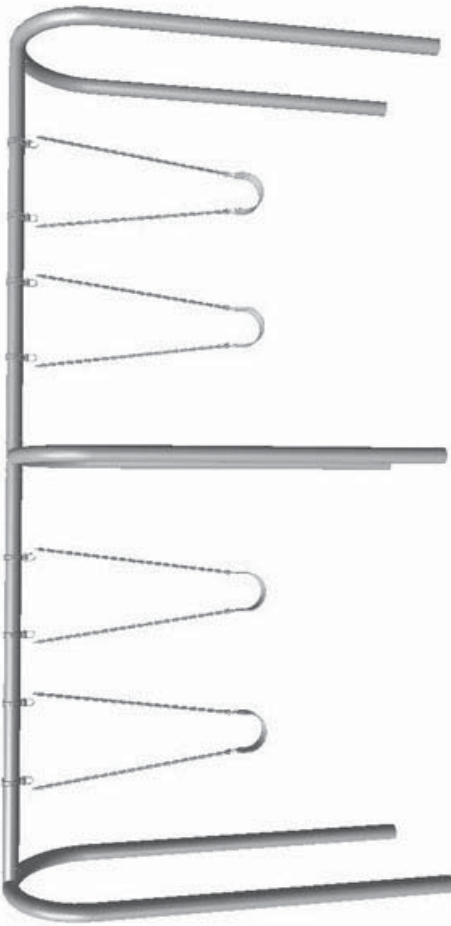
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems[®] Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

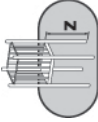


Assembly View

Installation Preparation

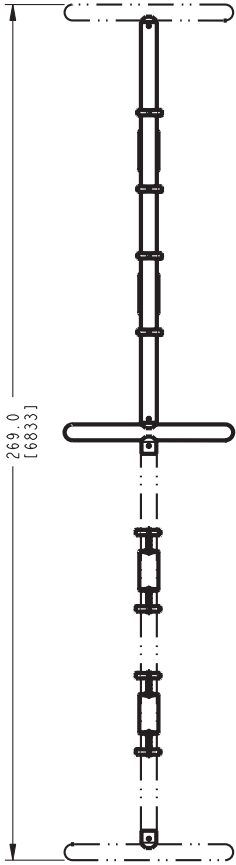
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

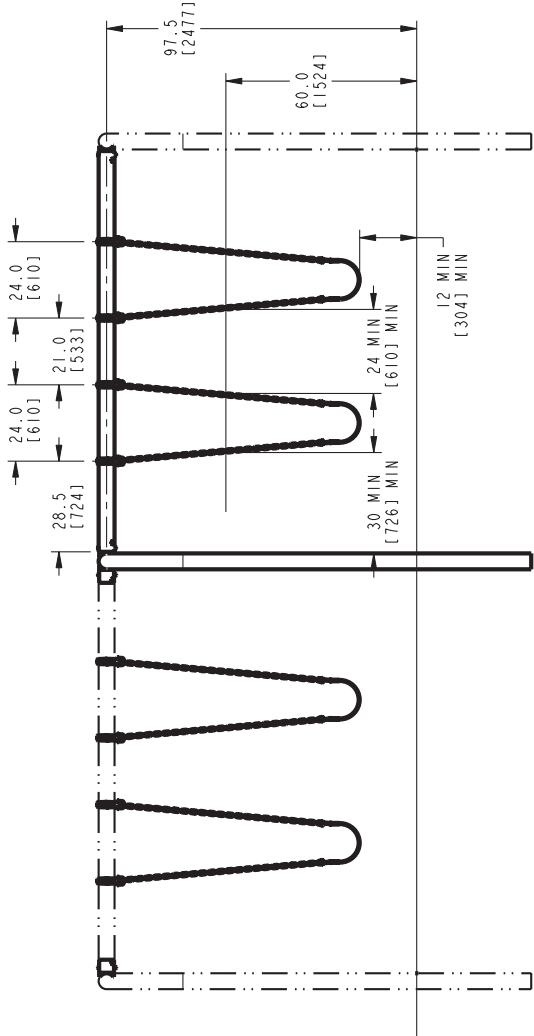
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

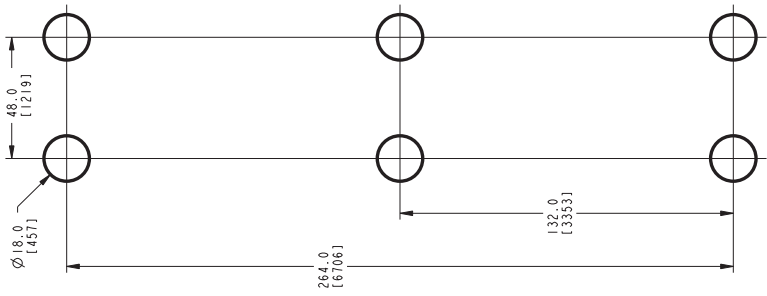
Top View



Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



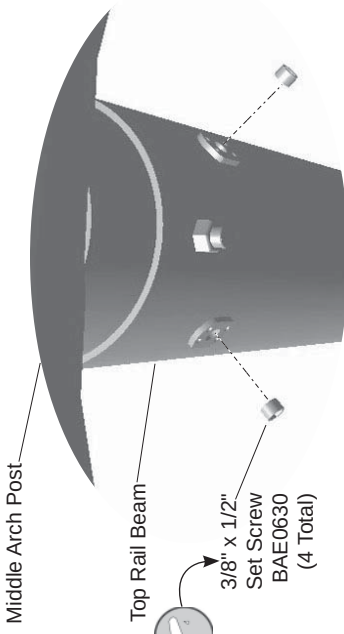
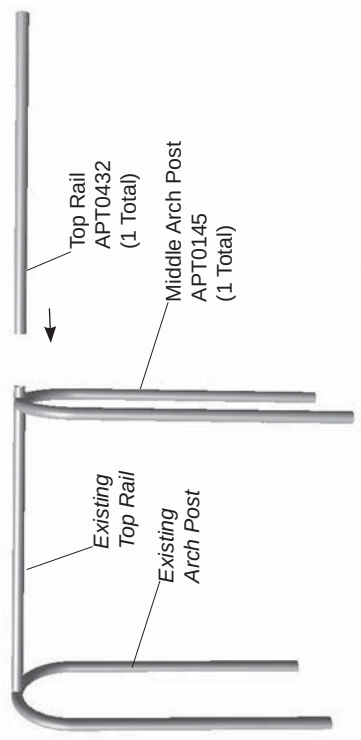
Elevation Views



Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

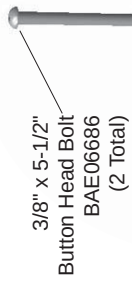
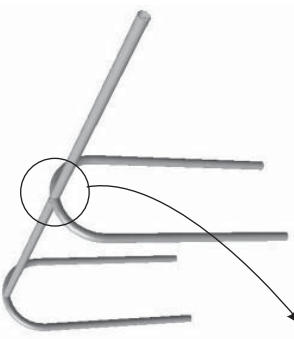


Underneath View

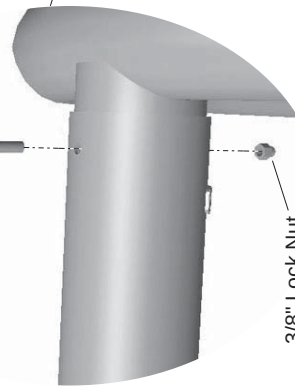
Detail B

Step 7

Secure the top rails to the middle arch post.



Middle Arch Post



Swing Hanger
AAU0155
(4 Total)

3/8" x 1-1/4"
Tampor Resistant Bolt
BAE0662
(4 Total)

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



Detail A

Step 5

Attach both top rails (new and existing) to the middle arch support.



Detail C

Step 10

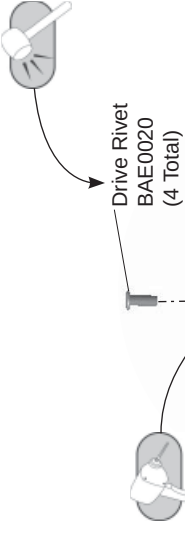
Attach swing hangers to the top rail.

When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

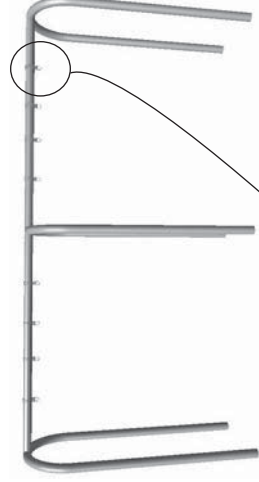


Installation Instructions

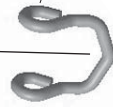
Swing Hanger



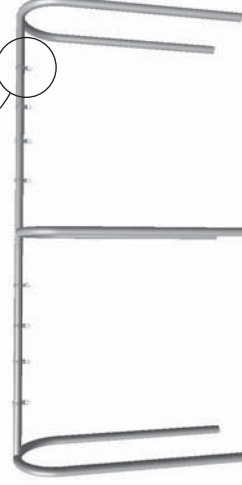
Drive Rivet
BAE0020
(4 Total)



Swing Clevis Connector
ABC0704
(4 Total)



Detail E
Step 14
Secure the swing hangers
to the top rail.

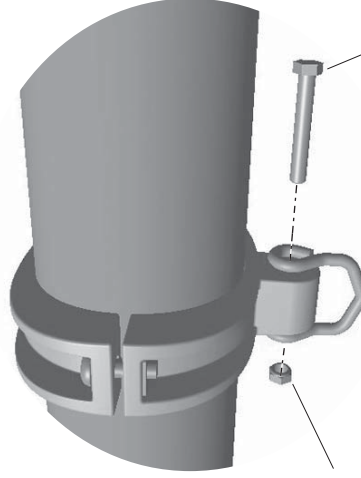


3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11
Attach each clevis to a swing hanger.

3/8" Thin Series Lock Nut
BAE0610
(4 Total)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

**PLAYWORLD
SYSTEMS®**

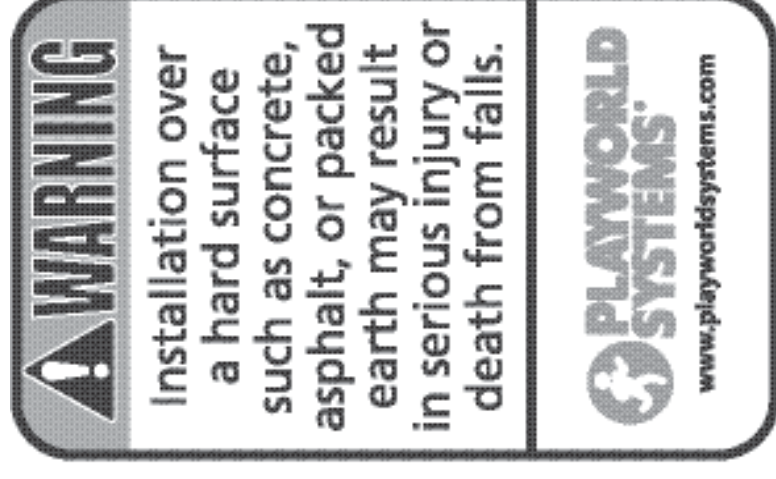
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

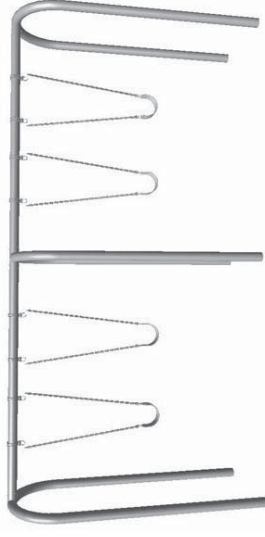
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



Inspection Form

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- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
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Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

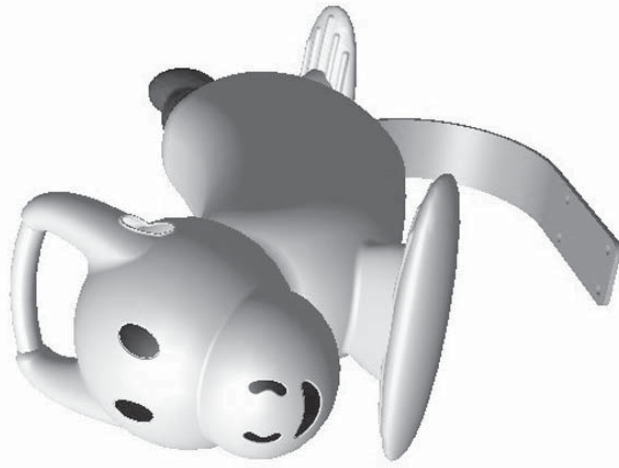
Signature: _____

Date: ____ / ____ / ____

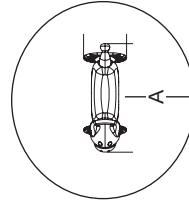


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Assembly View (representative structure)



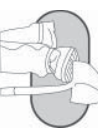
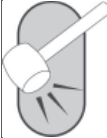
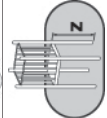
Spring Rider Use Zones
A = ASTM: 72 in. (1829 mm)
CSA: 1800 mm
EN: 1000 mm

Refer to the Elevation View for the specific Critical Fall Height for the component.

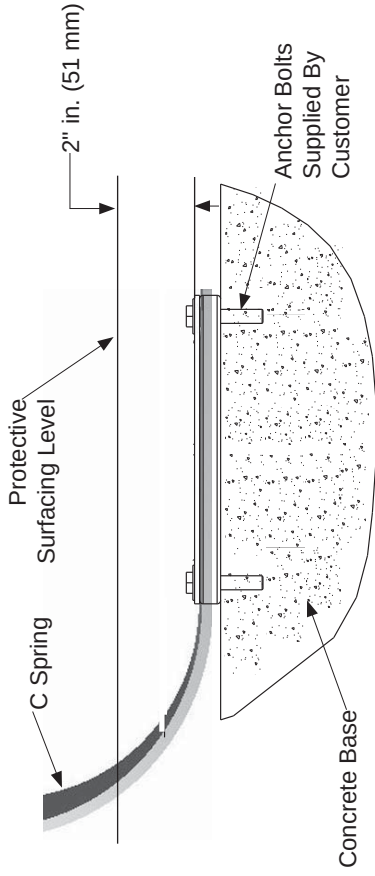
Installation Instructions Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568 Cow, Horse, Ladybug, and Bee Spring Rider With and Without Sound

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 2 installation-hours
Weight: (refer to table on page 3)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



C Spring Surface Mount Footing Detail

FOOTING NOTES

- Footing size may vary due to local soil and weather conditions.
- The base of the footing must be below frost line.

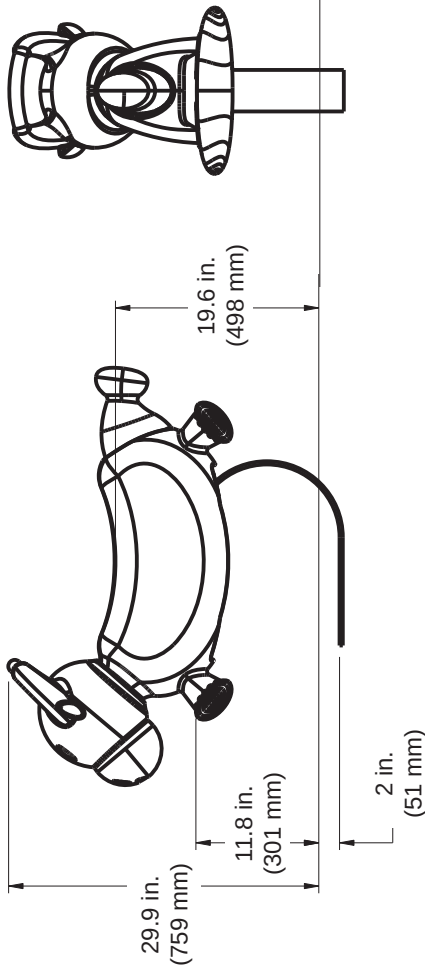
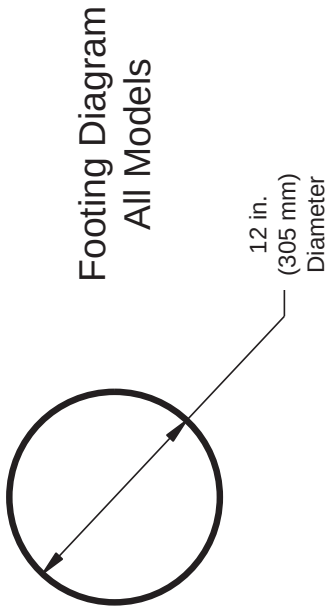
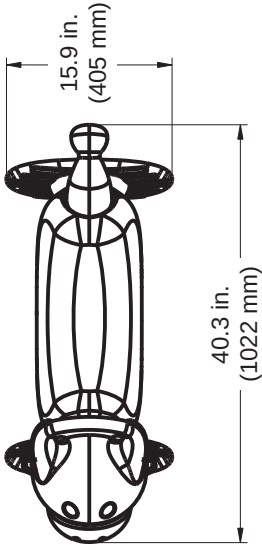
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Model	Animal	Weight
ZZXX0561	Cow	67.2 lbs. (30,5 kg)
ZZXX0562	Cow w/ Sound	69.7 lbs. (31,7 kg)
ZZXX0563	Horse	68.6 lbs. (31,2 kg)
ZZXX0564	Horse w/ Sound	71.2 lbs. (32,4 kg)
ZZXX0565	Ladybug	65.4 lbs. (29,7 kg)
ZZXX0566	Ladybug w/ Sound	68 lbs. (30,9 kg)
ZZXX0567	Bee	66.7 lbs. (30,3 kg)
ZZXX0568	Bee w/ Sound	69.3 lbs. (31,5 kg)



Top View



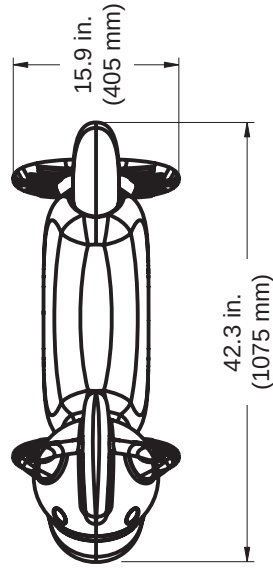
Elevation Views
XX0561 & XX0562



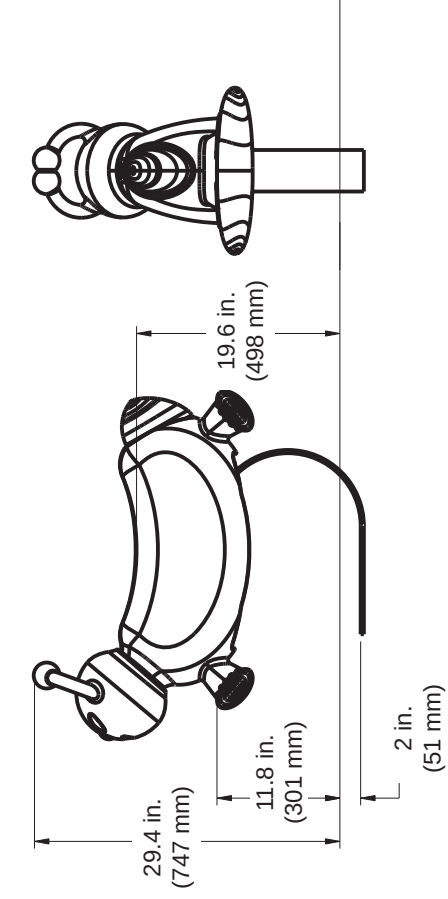
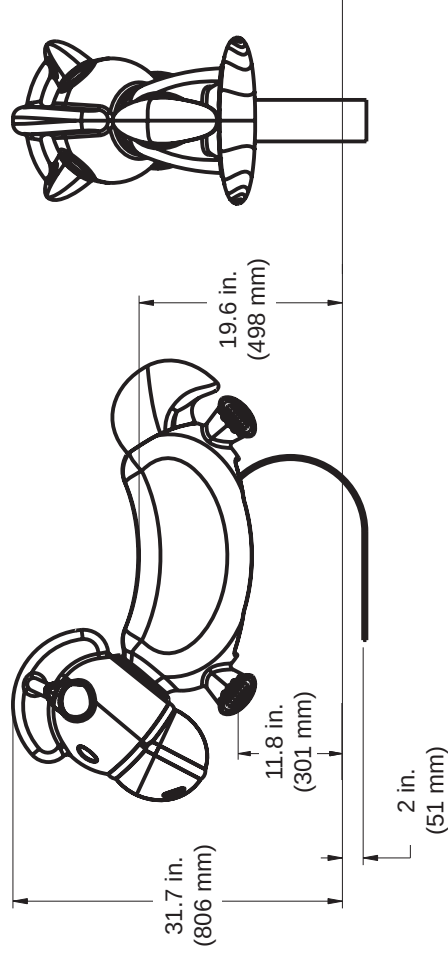
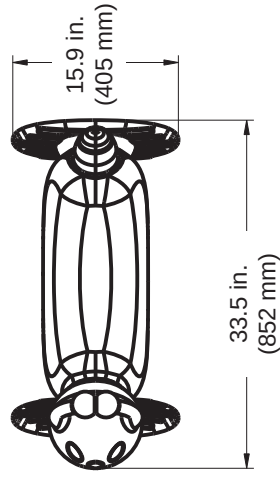
Installation Instructions



Top View



Top View

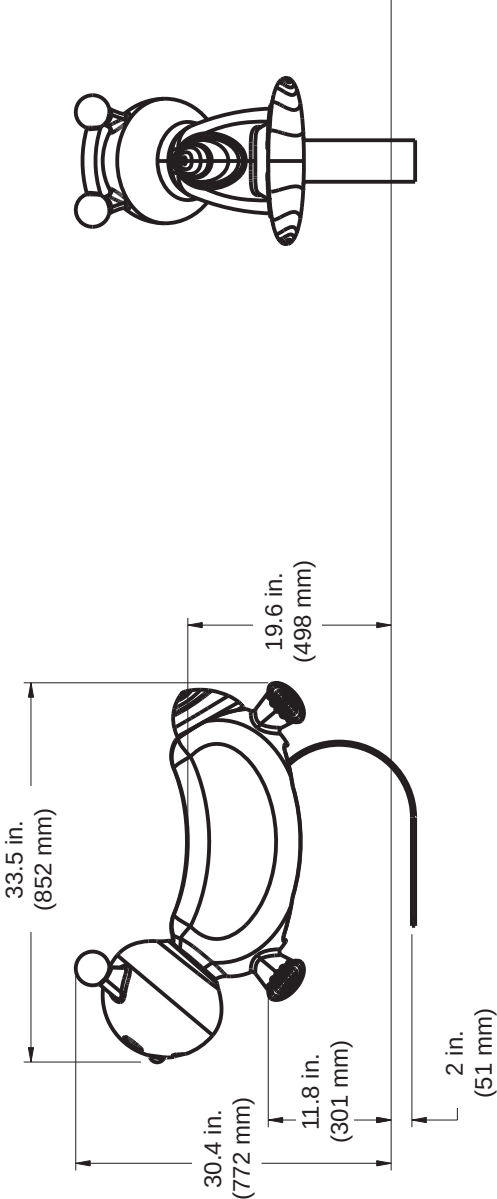
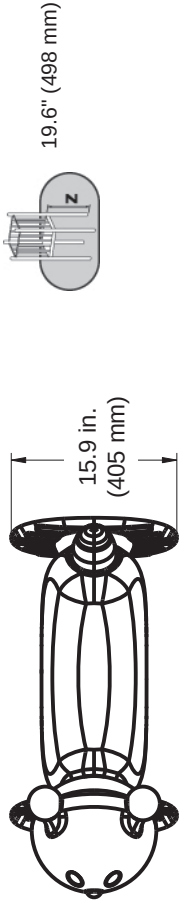


Elevation Views
XX0563 & XX0564

Elevation Views
XX0565 & XX0566

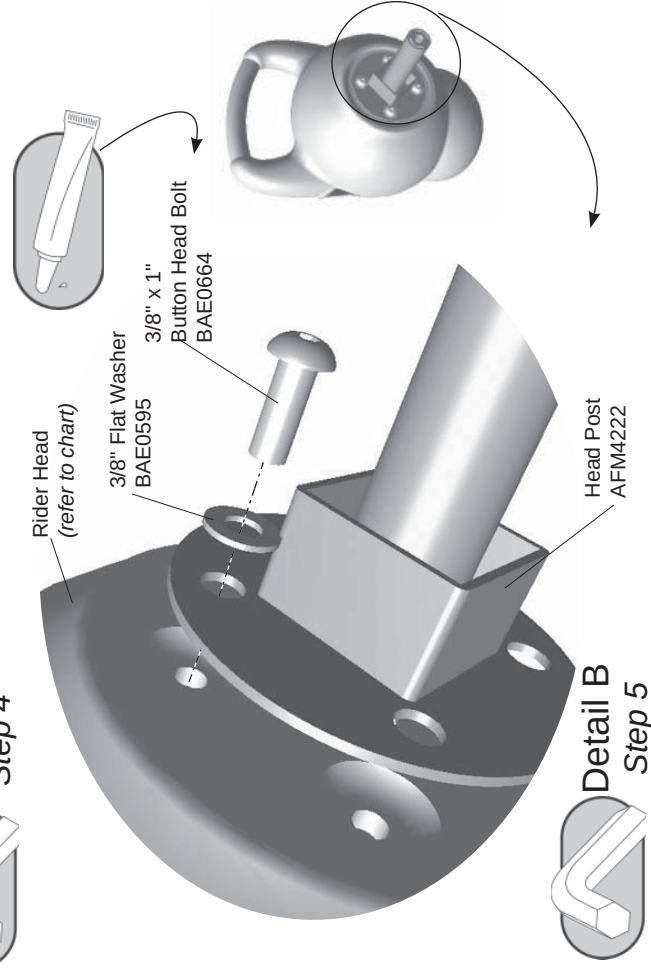
Installation Instructions

Top View

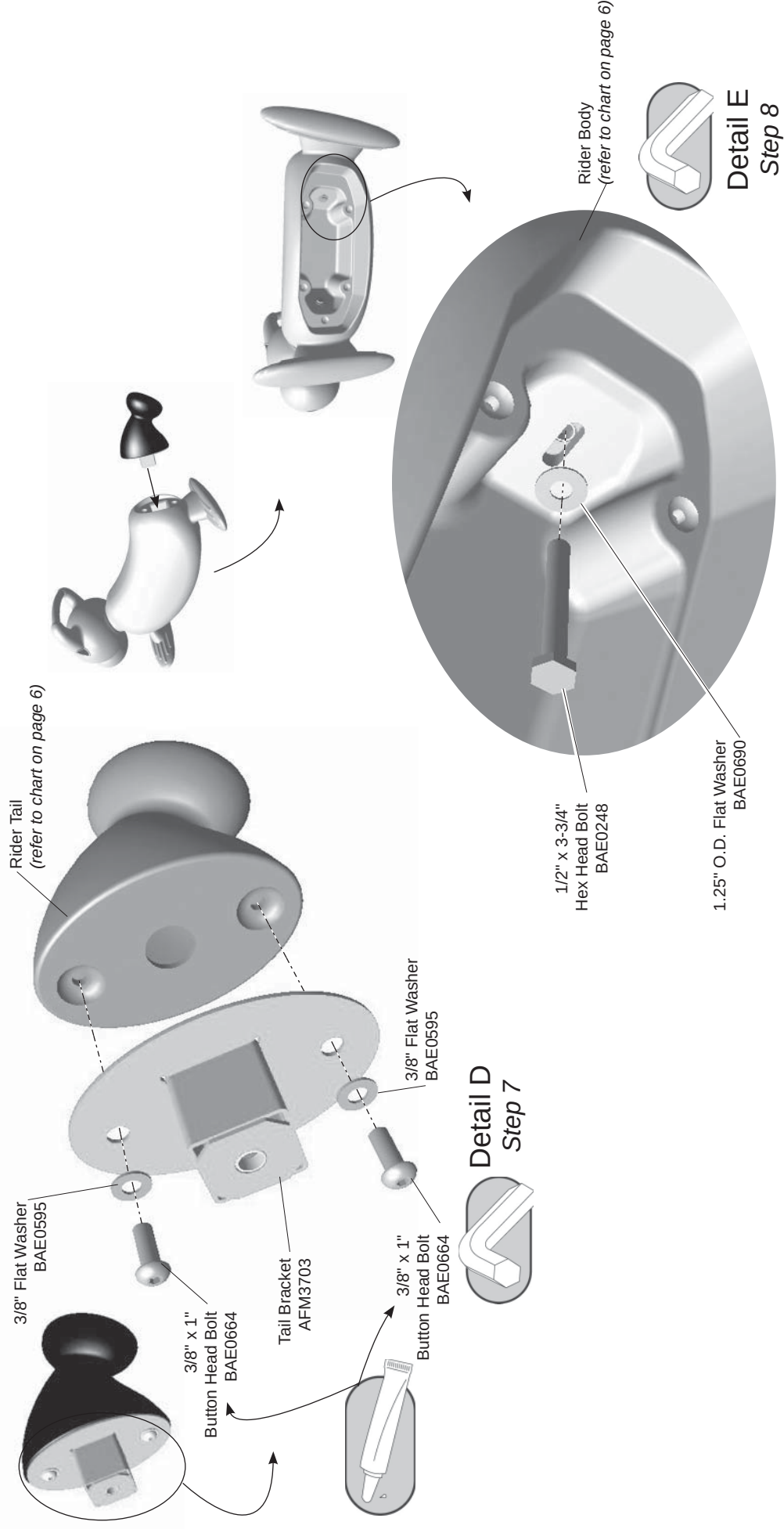


Elevation Views
XX0567 & XX0568

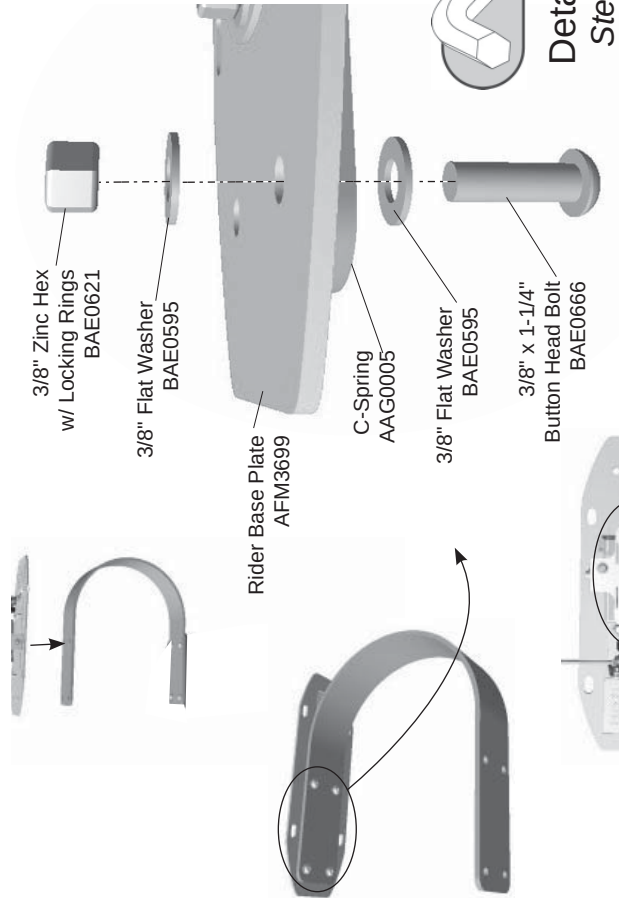
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



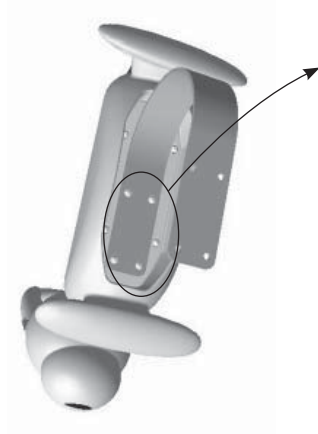
Installation Instructions



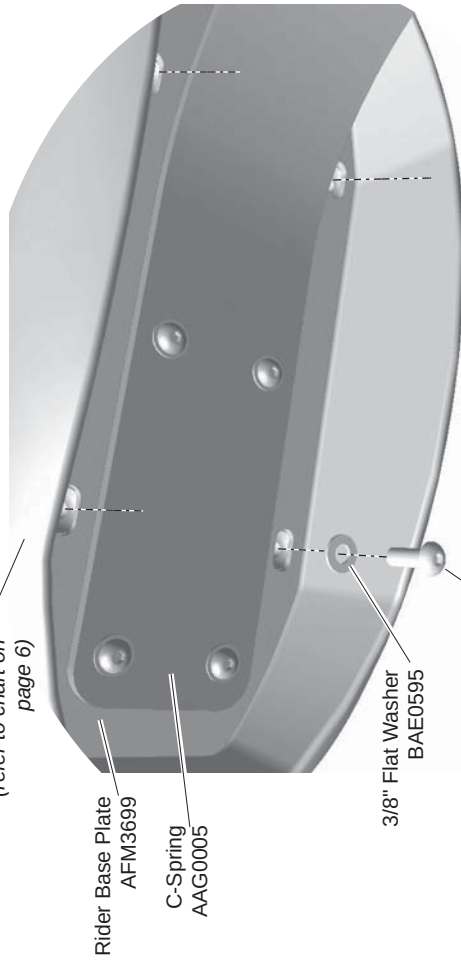
Installation Instructions



Detail F
Step 9



Rider Body
(refer to chart on page 6)



Detail G
Step 10

Detail H
Step 11



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Prepare footings as shown in the **C-Spring Footing Detail** on page 2 of this document.

Note: Heads and tails can be interchanged with body. Refer to the chart on page 6 to reference your specific parts.

Attach the plate to the rider body.

__Step 4: Attach the plate to the rider body. See **Detail A**. Select the plate, the rider body, and the appropriate hardware. There are (4) four connections. Place the plate in the indent in the neck area of the body and align the holes. Attach as shown.

Attach the head post to the rider head.

__Step 5: Attach the head post to the rider head. See **Detail B**. Select the head post, the rider head, and the appropriate hardware. There are (4) four connections. Place the post in the indent at the bottom of the head and align the holes. Attach as shown.

Attach the head to the body.

__Step 6: Attach the head to the body. See **Detail C**. Select the head assembly, the body assembly, and the appropriate hardware. There is (1) one connection. Insert the head assembly into the body assembly. Insert a bolt up through the rider body and thread into the head post. Tighten the connection until there is no gap between the head and the body.

Assemble the tail.

__Step 7: Assemble the tail. See **Detail D**. Select the tail, the tail bracket, and the appropriate hardware. There are (2) two connections. Align the tail bracket with the holes in the tail and attach as shown.

Attach the tail to the body.

__Step 8: Attach the tail to the body. See **Detail E**. Select the tail assembly and the appropriate hardware. There is (1) one connection. Insert the tail assembly into the body assembly. Insert a bolt up through the rider body and thread into the tail bracket. Tighten the connection until there is no gap between the tail and the body.

Attach the base plate to the C-spring.

__Step 9: Attach the base plate to the C-spring. See **Detail F**. Select the appropriate hardware. There are (4) four connections. Place the base plate onto the C-spring. Align the inner holes on the base plate with the holes in the C-spring. Attach as shown.

Note: Skip *Step 10* if you are not installing a model with sounds.

Attach the electronics to the base plate.

__Step 10: Attach the electronics to the base plate. See **Detail G**. Select the electronics, the base plate, and the appropriate hardware. There are (3) three connections. Insert the electronic panel onto the pegs on the base plate. Attach as shown.

Important Note: Insert (4) four D-cell batteries into the sound electronics before installation. Batteries are sold separately. Battery life is approximately one (1) year. Maintenance should be scheduled to replace the batteries accordingly.

Note: Sound electronics are factory ready. No electrical connections will need to be made.

Attach the rider body assembly to the base plate.

__Step 11: Attach the rider body assembly to the base plate. See **Detail H**. Select the appropriate hardware. There are (4) four connections. Lower the rider body assembly onto the base plate and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Installation Instructions

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Bill of Materials

XX0561 - COW SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0562 - COW SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1



Bill of Materials

XX0563 - HORSE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1

XX0564 - HORSE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1



Bill of Materials

XX0565 - LADYBUG SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0566 - LADYBUG SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



Installation Instructions

XX0567 - BEE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0568 - BEE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



**PLAYWORLD
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For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are: Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Sound Unit

- Inspect for proper operation and replace batteries as needed.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568

Cow, Horse, Ladybug,
and Bee Spring Rider
With and Without Sound



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect spring connections for tightness.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect sound unit for proper operation and replace batteries as needed.	Medium			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

- **ASTM compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 72 inches (1829 mm). This use zone may be overlapped by the use zone of other rocking/springing intended for sitting or stationary equipment when the seat or designated play surface is 30 inches (762 mm) or less from the protective surfacing level. See diagram.

- **CSA compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1800 mm. The designated play surface, or seating surface must be 700 mm or less from the level of the protective surfacing. This use zone may be overlapped by the use zones of adjacent play equipment. See diagram.

- **EN Compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1000 mm. This use zone may be overlapped by the use zone of other rocking/springing equipment.

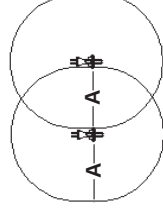
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

Rocking/Springing Equipment
Intended for Sitting Use Zones

A = ASTM: 72 in. (1829 mm)

CSA: 1800 mm

EN: 1000 mm



Placement of multiple Spring Riders

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorberency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

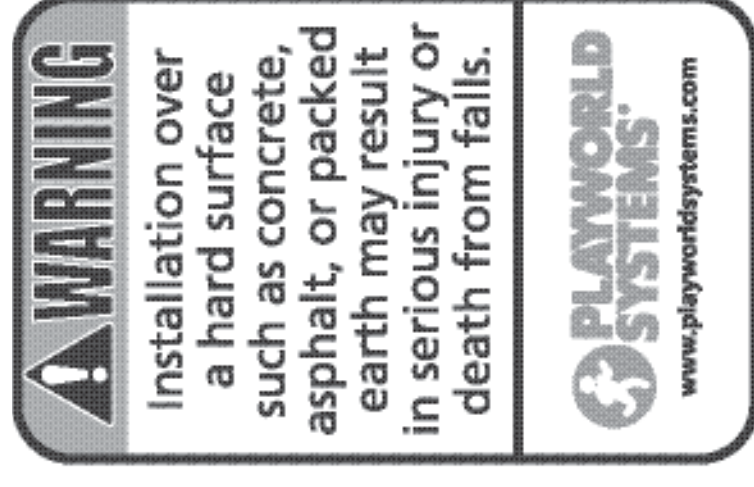
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable specifications in your area appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

PILGRIM PARK

MANUFACTURERS' INSTALLATION INFORMATION

PILGRIM PARK

MADISON, WI

OPTION #2

ER
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



VIEW A

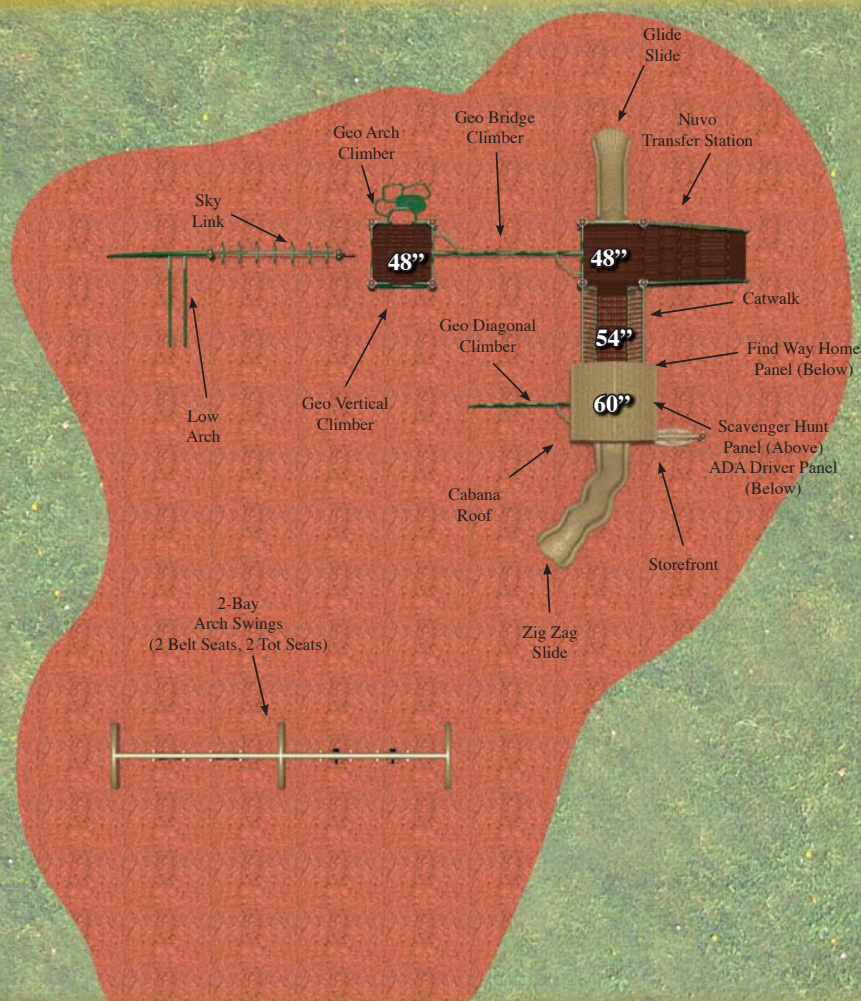


VIEW B

PILGRIM PARK

MADISON, WI

OPTION #2



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW012014-2

Use Zone:

of Users: 42

of Active Play Events: 17

Colors Shown:



Chocolate



Brownstone



Green



Pilgrim Park

Design Number: 22 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0
5	ZZPM0026	6	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	445.26		650	0	6.00	0.72	0
6	ZZPM0036	2	5in OD X 144in STEEL POST W/ RIVETED CAP	Certified	161.82		235	0	2.00	0.26	0
7	ZZPM0036GZ	1	5in OD X 144in STEEL POST (GROUND ZERO)	Certified	80.41		117	0	1.50	0.18	0
8	ZZPM0067	4	5in OD X 180in STEEL POST W/O CAP	Certified	399.64		542	0	4.00	0.52	0
9	ZZPM0357	1	5in x 84in STEEL POST w/CAP	Certified	53.03		73	0	1.00	0.12	0
10	ZZPM0616	3	SQUARE COATED DECK ASSEMBLY	Certified	271.08		662	12	3.00	0.00	0
11	ZZPM0678	1	NUVO- 48in TRANSFER STATION	Certified	350.11		609	2	3.50	0.12	1
12	ZZPM2805	2	ENTRY SUPPORT BRACKET	Certified	33.88		133	0	1.00	0.00	0
13	ZZPM3126	1	GLIDE SLIDE (48in DECK)	Certified	131.54		517	2	2.00	0.03	1
14	ZZPM3236	1	ZIGZAG SLIDE (60in DECK)	Certified	168.51		740	0	2.00	0.03	0
15	ZZPM4319	1	FIND THE WAY HOME PANEL (GROUND LEVEL)	Certified	54.26		366	2	0.50	0.00	1
16	ZZPM4406	1	ACCESSIBLE DRIVING PANEL	Certified	31.59		237	1	0.50	0.00	1
17	ZZPM4546	1	SCAVENGER HUNT (DECK LEVEL)	Certified	52.85		568	3	2.00	0.00	1
18	ZZPM4646	1	STOREFRONT PANEL	Certified	44.80		279	2	1.00	0.00	1
19	ZZPM4288	1	ACCESS GATE	Certified	34.38		92	0	0.50	0.00	0
20	ZZPM6996	1	GEO VERTICAL CLIMBER (48in DK)	Certified	80.13		256	1	1.00	0.00	1
21	ZZPM7006	1	GEO ARCH CLIMBER (48in DK)	Certified	72.67		190	1	2.00	0.06	1
22	ZZPM7017	1	GEO DIAGONAL CLIMBER (60in DK)	Certified	131.79		386	0	2.00	0.06	0



Pilgrim Park

Design Number: 22 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM0297	1	POST W/ LADDER CLIMBER (36in OR 48in DECK)	Certified	74.81		131	1	0.50	0.13	1
24	ZZPM8469	1	THE LOW ARCH LEFT	Certified	121.41		362	3	2.00	0.12	1
25	ZZPM8450	1	THE SKY LINK	Certified	55.09		129	2	0.50	0.00	1
26	ZZPM6700	1	GEO BRIDGE CLIMBER	Certified	171.10		498	3	2.00	0.00	1
27	ZZPM7080	1	6ft CATWALK	Certified	253.68		518	3	2.50	0.00	1
28	ZZPM9846	1	CABANA ROOF	Certified	123.05		527	0	0.50	0.00	0
Totals:					3,795.51	603	1,134	42	50.50	3.13	17
					1,707.98 Kg	271 Kg	510 Kg	11 Metric Tons		2.38 m3	



PILGRIM 2-3

PROJECT NO:	LEE_FTG3	SYSTEM	CHALLENGERS	DRAWN BY: 1/8" = 1'-0"	DANA GRUBBS
REV:	-				
DATE:		03-MAR-14			

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

PLAYWORLD

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= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)



= SUPPORT POST FOOTING (DETAIL 1 & 4)



= CANTILEVER T POST AND COMPONENT PART NUMBER FOOTING (DETAIL 2) (ZCCH1850 INDICATES PART NUMBER)



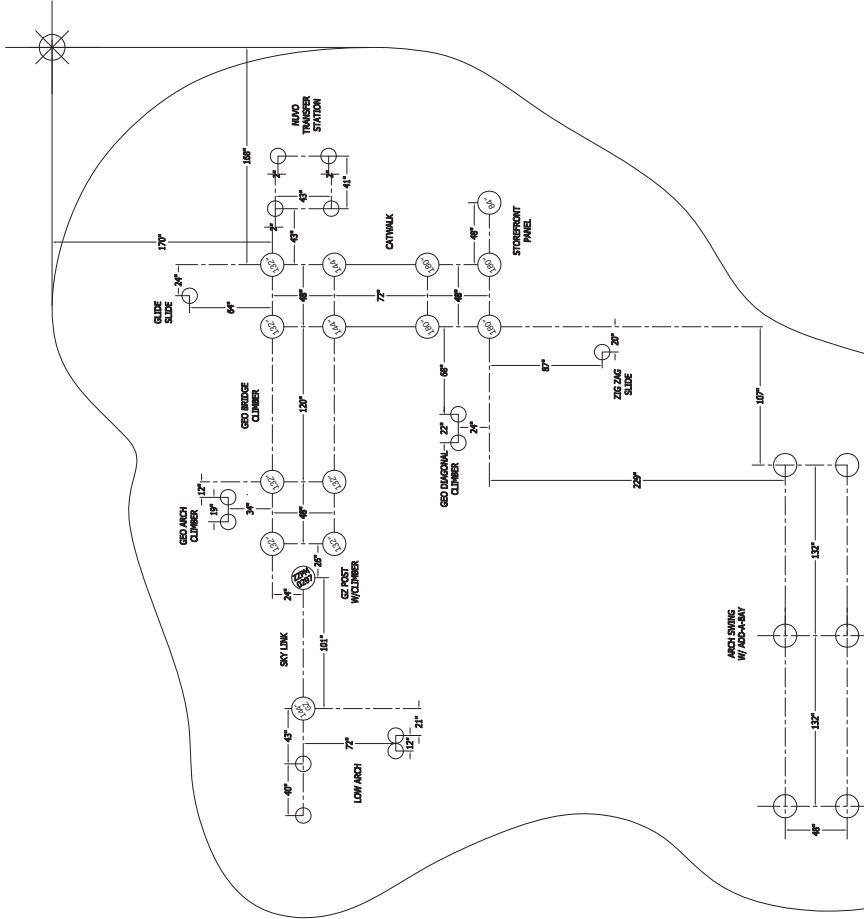
= GROUND ZERO POST FOOTING (DETAIL 2) (144 (3658mm) INDICATES POST LENGTH)

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

PLAYWORLD

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Playground is a brand of Playworld Systems, Inc.

— COMPONENT FOOTING (DETAIL 3)
= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
= SUPPORT POST FOOTING (DETAIL 1 & 4) (112" (2845mm) INDICATES POST LENGTH)
= COUNTERE "T" POST AND COMPONENT PART NUMBER FOOTING (DETAIL 2) (22CH1850 INDICATES PART NUMBER)
= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3658mm) INDICATES POST LENGTH)



*Playground Supervision Required

Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)

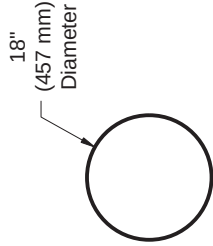
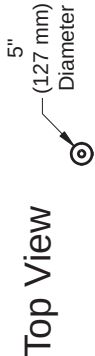


Assembly View (representative model)

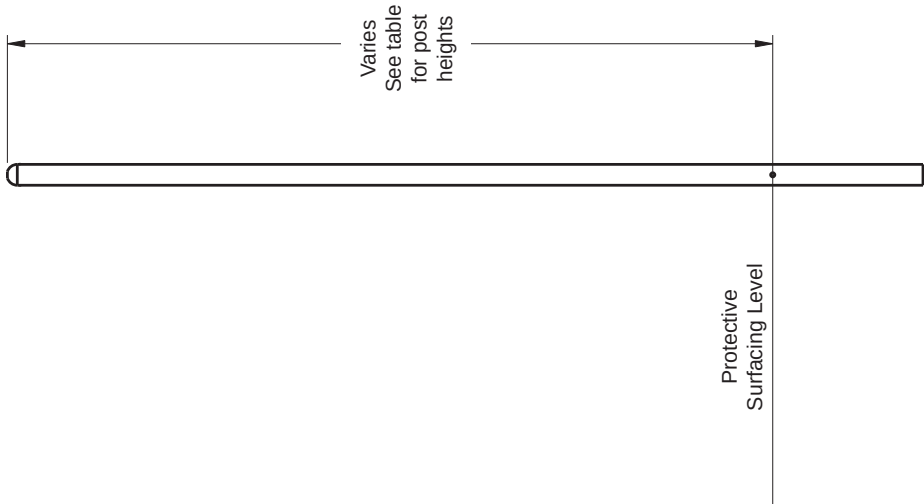
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1	CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1		
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1	CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1		
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1	CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1		
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1	CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1		
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1	CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1		
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



PLAYWORLD
 For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
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www.playworldsystems.com

Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)



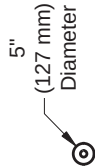
Assembly View (representative model)

Installation Preparation

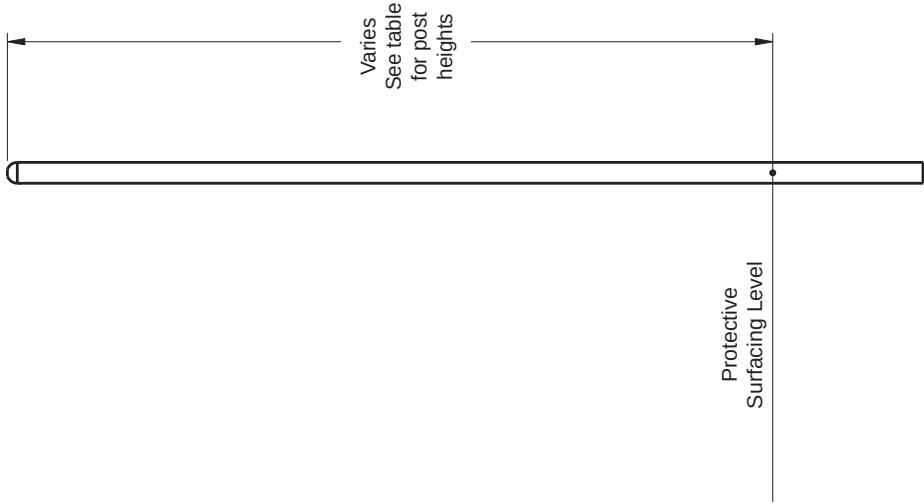
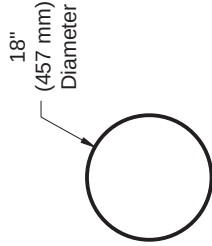
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

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___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1	CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1		
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1	CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1		
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1	CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1		
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1	CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1		
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.		
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1	CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1		
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0008GZ,
PM0036GZ, PM0056GZ, & PM0066GZ
GroundZero® Steel Support Post w/ Cap
108 in. (2743 mm), 144 in. (3658 mm),
168 in. (4267 mm), & 180 in. (4623 mm)



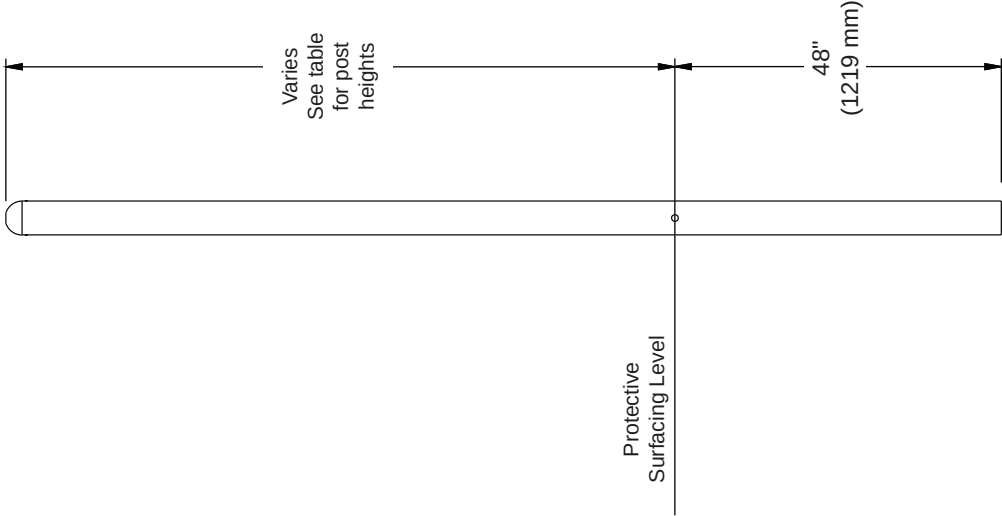
Assembly View (representative model)

Installation Preparation

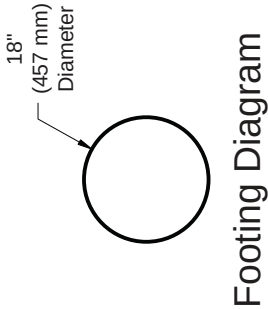
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.18 cubic yard (0.14 cubic meters)

Installation Instructions

Top View



Elevation View



Model	Post Height	Weight
ZZPM0008GZ	108" (2743 mm)	60.6 lbs. (27,5 kg)
ZZPM0036GZ	144" (3658 mm)	80.4 lbs. (36,2 kg)
ZZPM0056GZ	168" (4267 mm)	97 lbs. (43,7 kg)
ZZPM0066GZ	180" (4623 mm)	104.2 lbs. (47,4 kg)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**. Ensure the hole is at GroundZero® depth.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0008GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5026	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 48"	1

PM0036GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5027	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 48"	1

PM0056GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP0286	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 48"	1

PM0066GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5073	POST - 5.00" O.D. x 180.00" STEEL w/ CAP & LBL AT 48"	1

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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



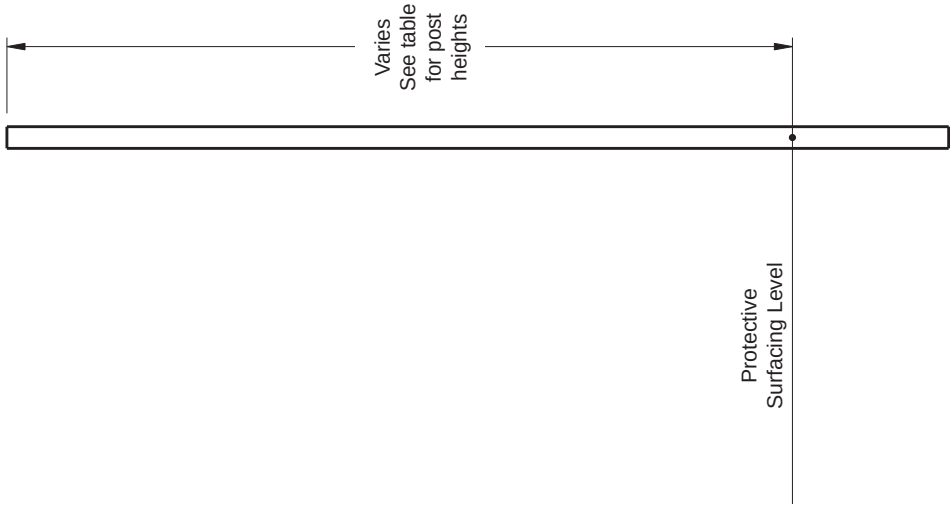
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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Assembly View

Installation Instructions Playmakers® Model PM0357 Steel Post w/ Cap 5 in. x 84 in.

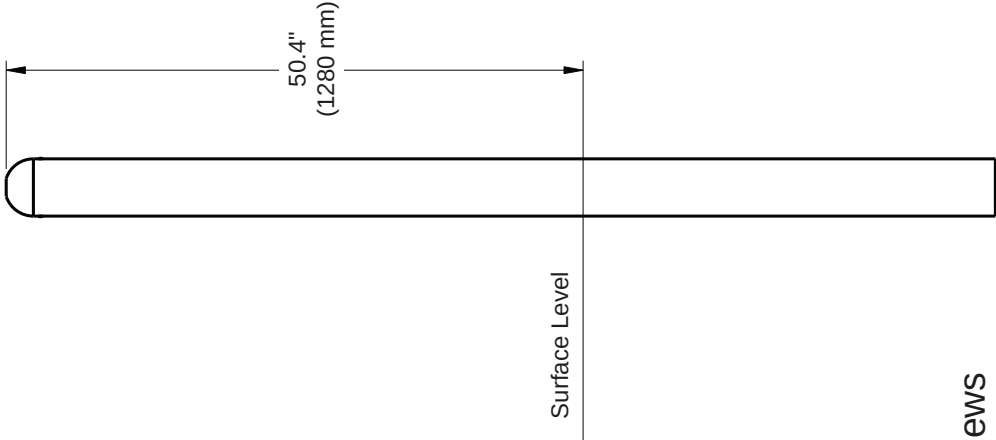
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 installation-hour
Weight:	53 lbs. (24,1 kg)
Concrete Required:	0.12 cubic yard (0,09 cubic meters)
Use Zone:.....	Refer to Master Drawing

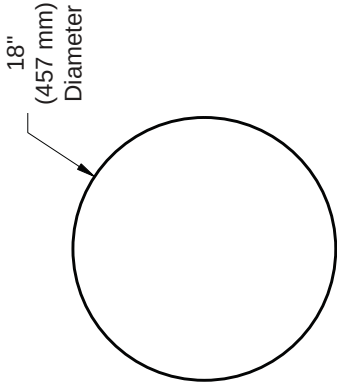
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

Top View



Elevation Views



Footing Diagram



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Support Post Footing Details** in the *Playmaker Guidelines*.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

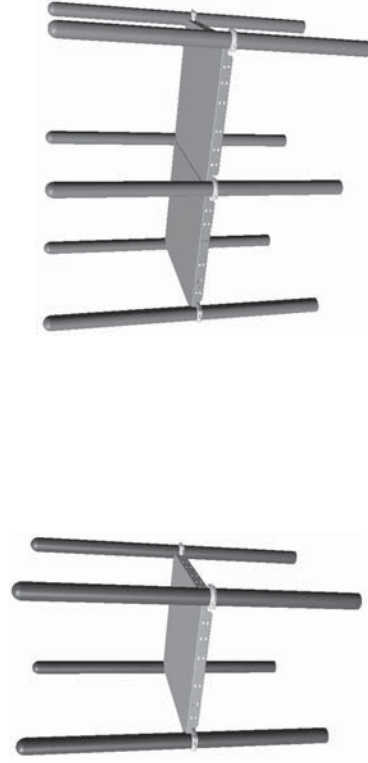
Bill of Materials

PM0357 - STEEL POST W/ CAP (5 O.D. in x 84 in)

PART NO.	DESCRIPTION	QTY.
CAP5069	POST - 5.00" O.D. x 84.00" STEEL w/CAP	1

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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



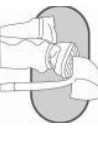
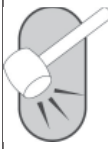
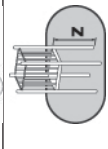
ZZPM0616
Square Deck

ZZPM0629
Long Deck

Assembly View

Installation Preparation

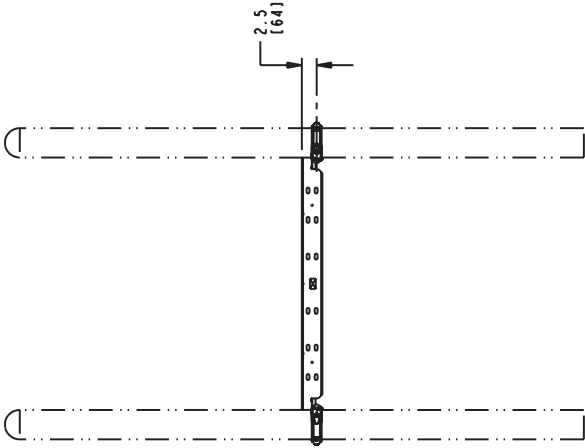
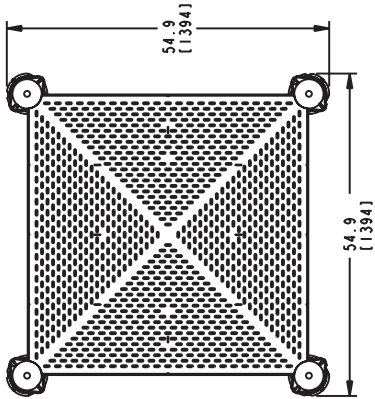
Recommended Crew (PM0616): Two (2) adults
Recommended Crew (PM0629): Four (4) adults
Installation Time (PM0616): 1 man-hour
Installation Time (PM0629): 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

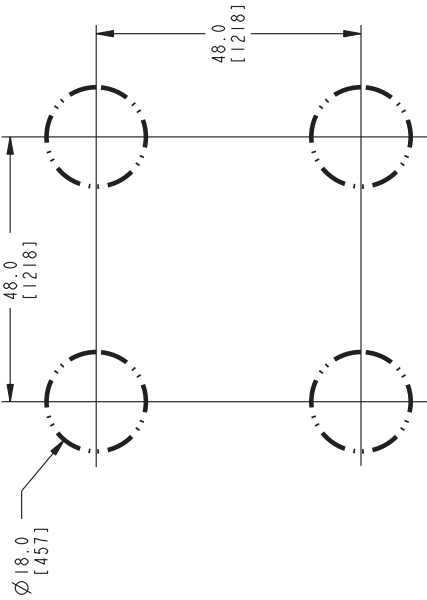
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Elevation View
Model PM0616



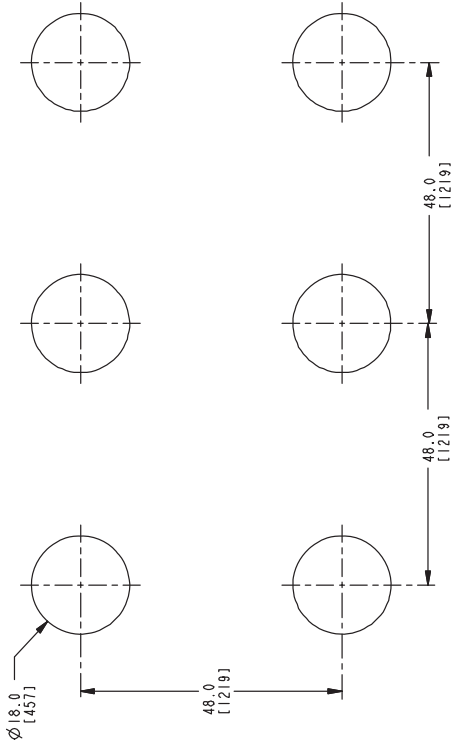
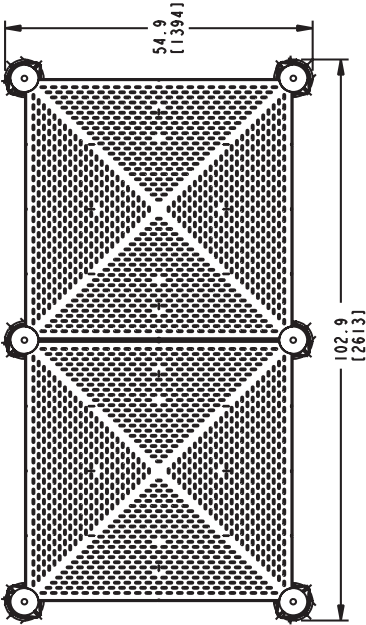
Footing Diagram



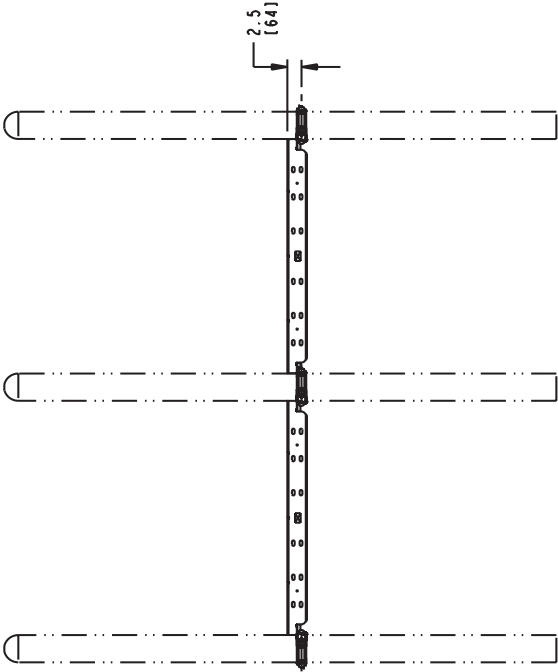
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	Millimeters	

Top View



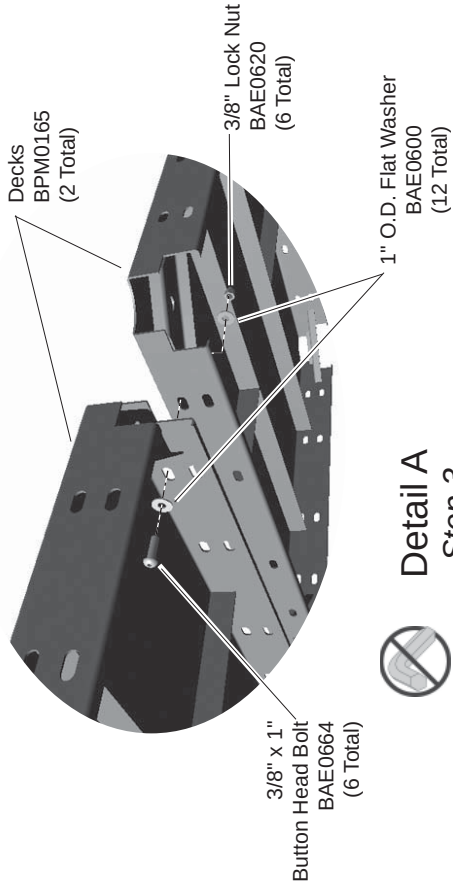
Footing Diagram



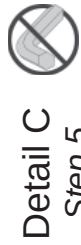
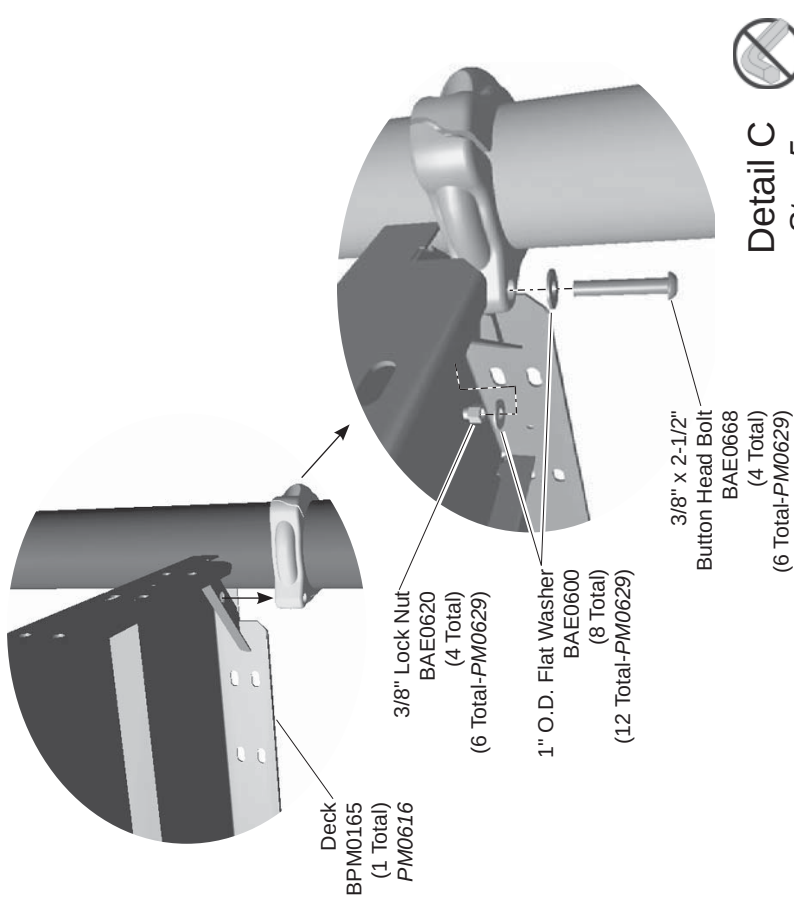
Elevation View
Model PM0629

Installation Instructions

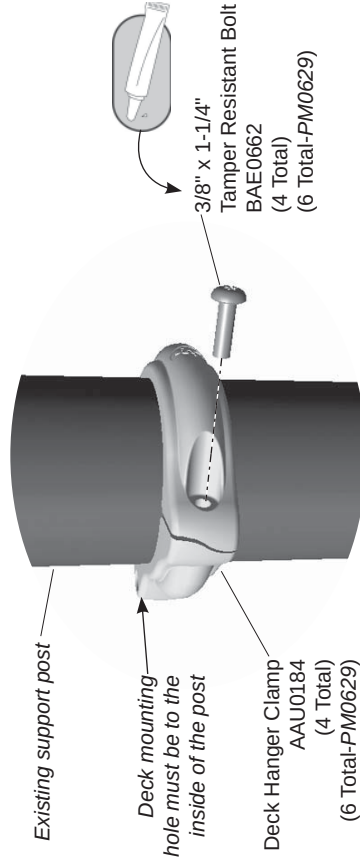
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



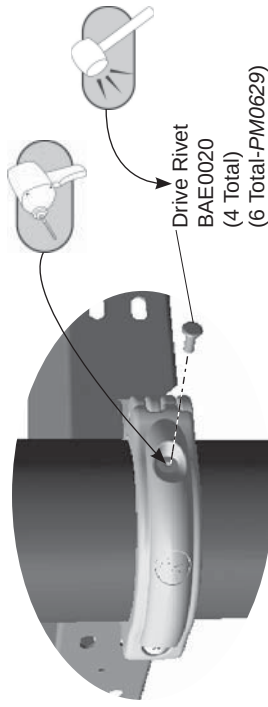
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail C
Step 5
Attach the decks to the clamps.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

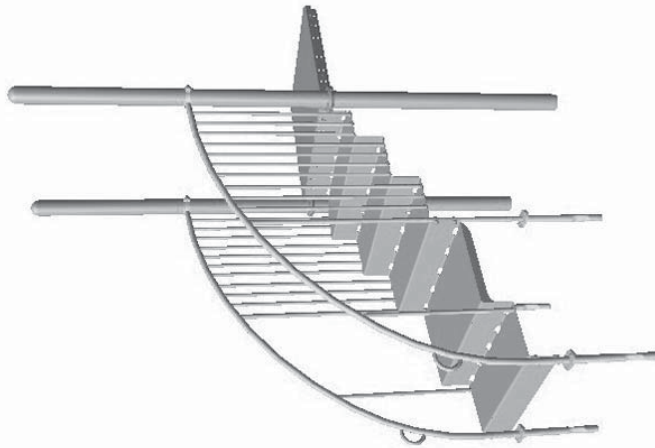
PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0165	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0165	PLATFORM - PM SQUARE PERF	2

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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM0678, PM0678S,
PM0679 and PM0679S

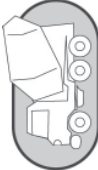
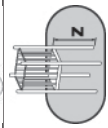
Nuvo™ Transfer Station

48 in. (1219 mm) and 36 in. (914 mm) Decks

In-Ground and Surface Mount

Installation Preparation

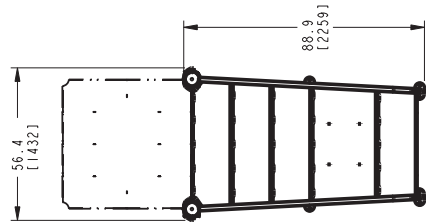
Recommended Crew: Two (2) adults
Installation Time (In-ground): 3.5 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.12 cubic yard (0,08 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

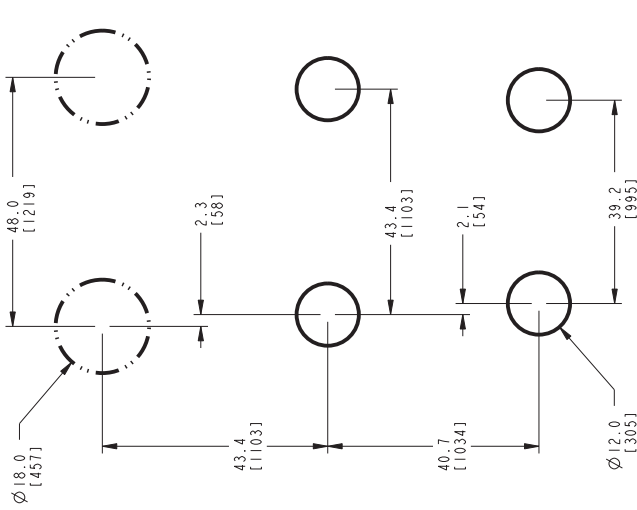
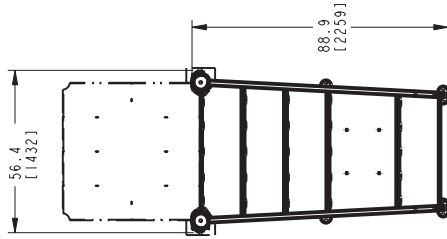
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

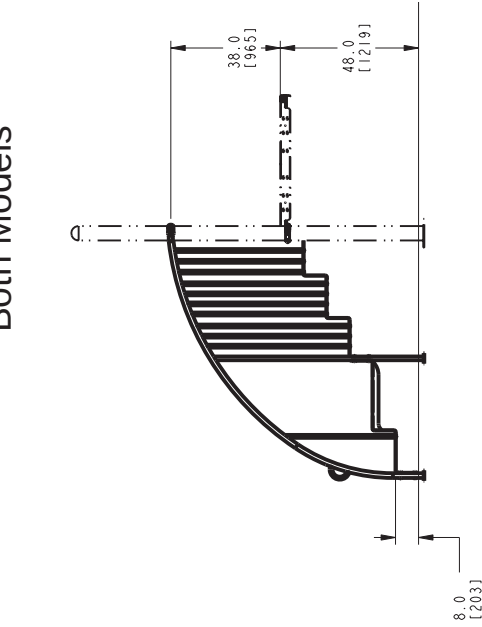
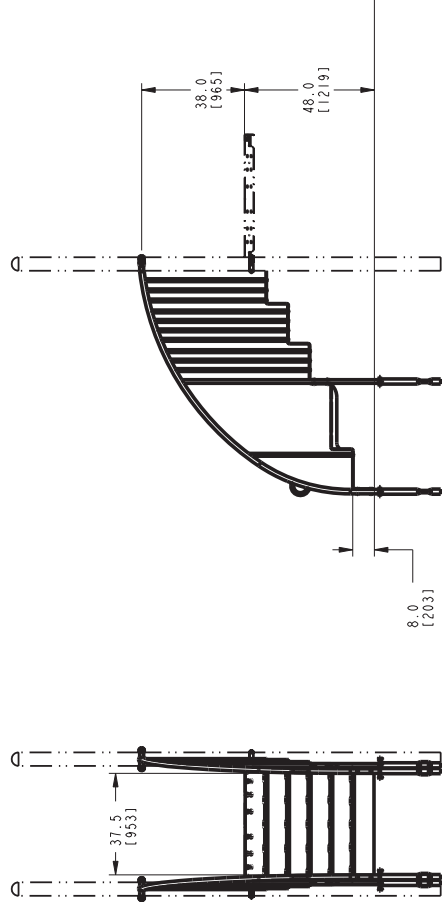
Top View



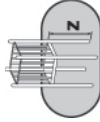
Top View



Footing Diagram
Both Models



Elevation Views
PM0678



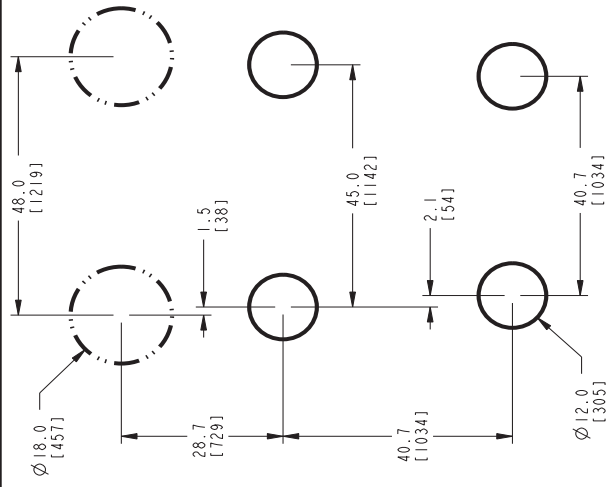
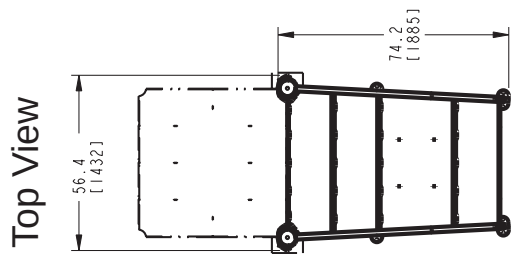
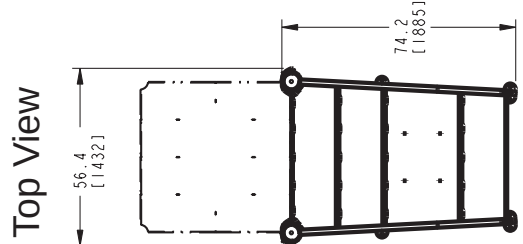
48" (1219 mm)

Elevation Views
PM0678S

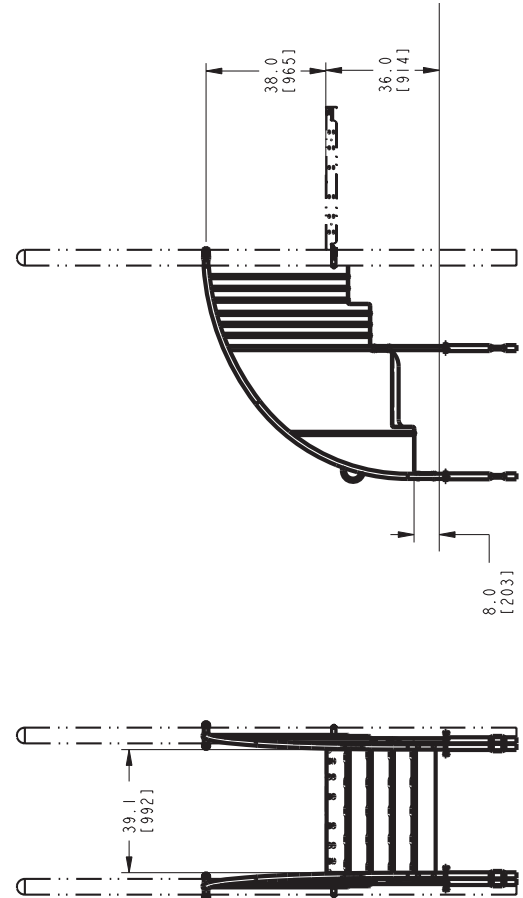


Installation Instructions

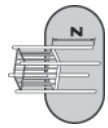
KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



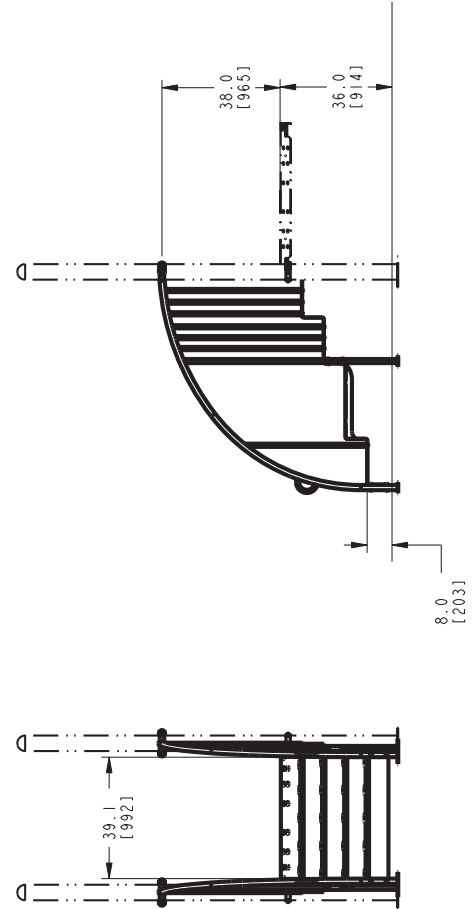
Footing Diagram
Both Models



Elevation Views
PM0679



36" (914 mm)

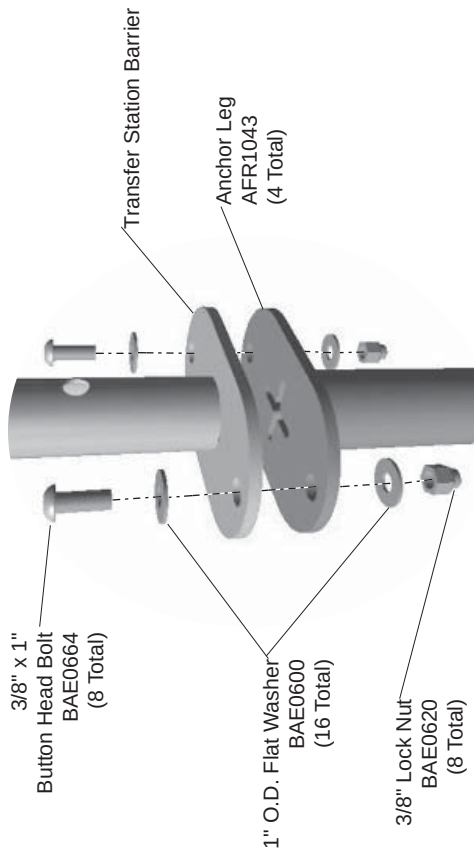


Elevation Views
PM0679S



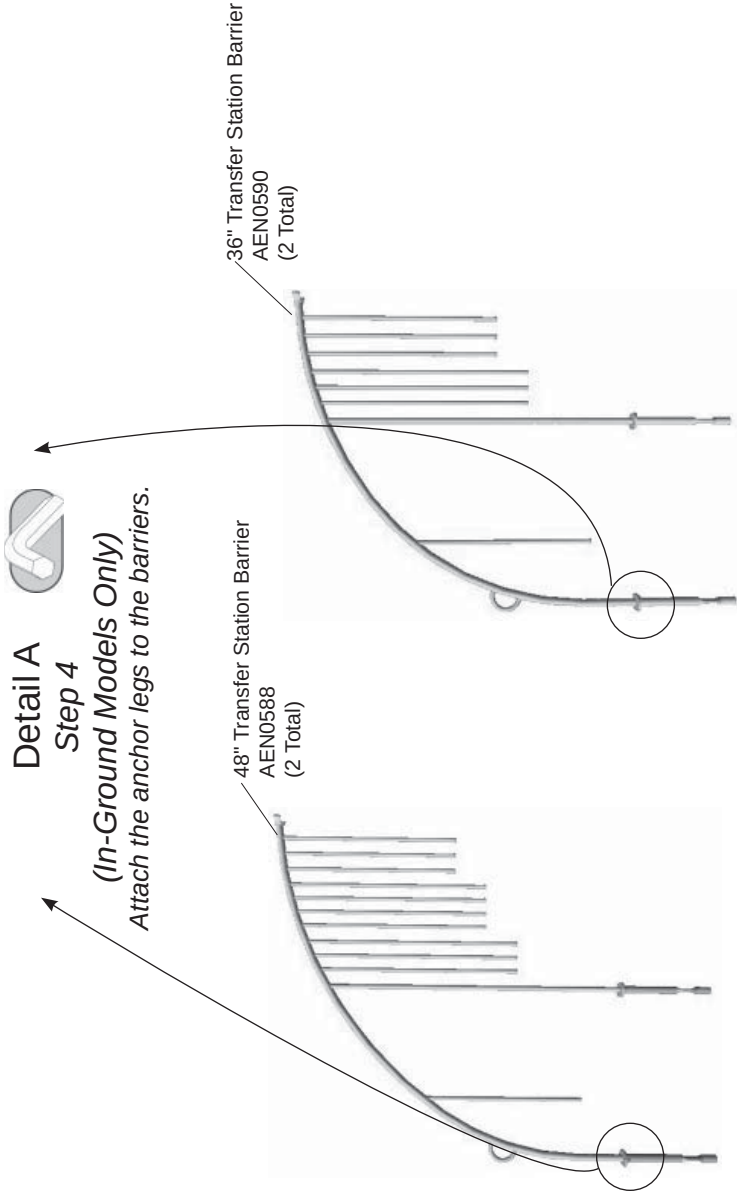
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

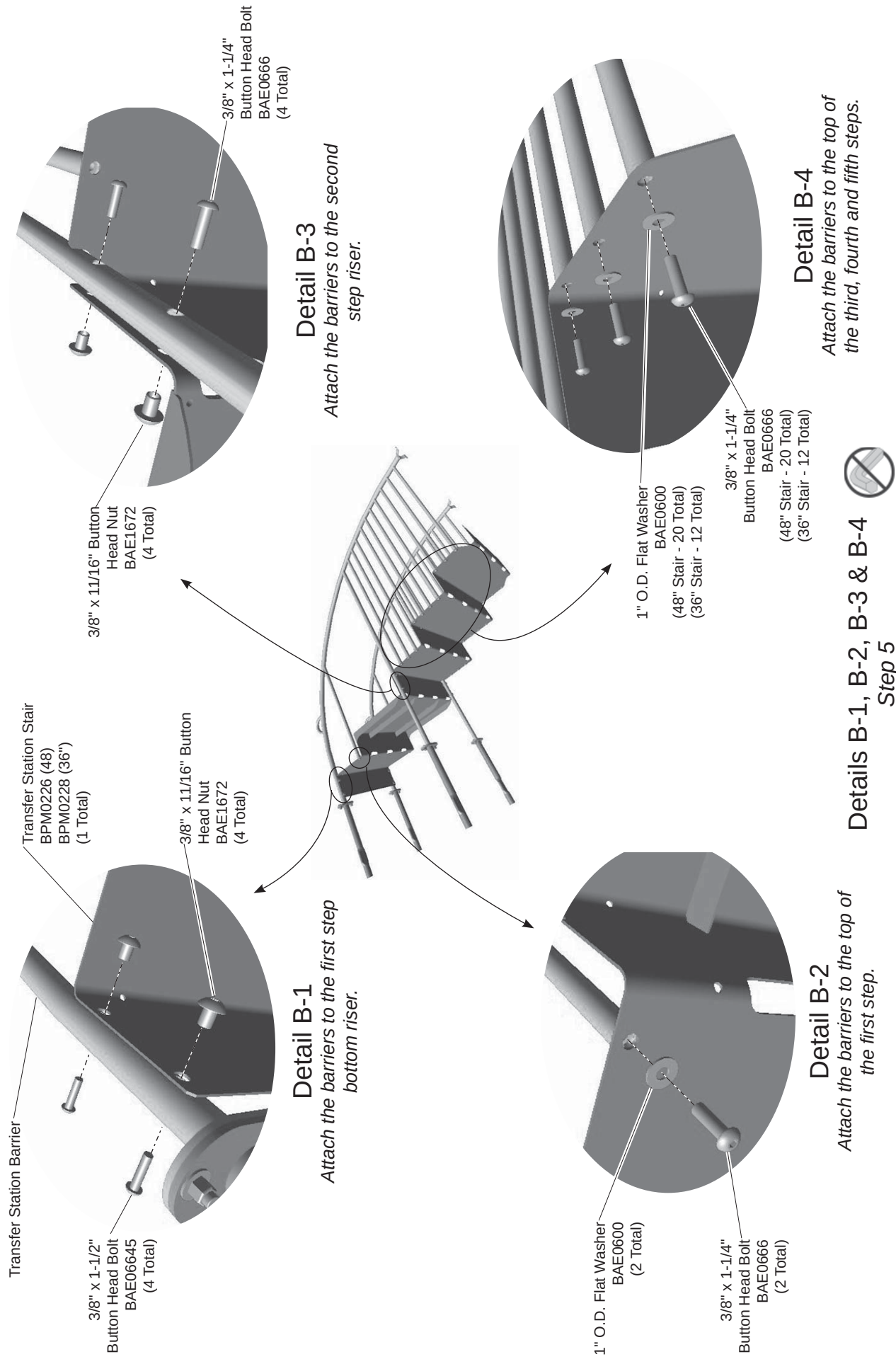


Detail A Step 4

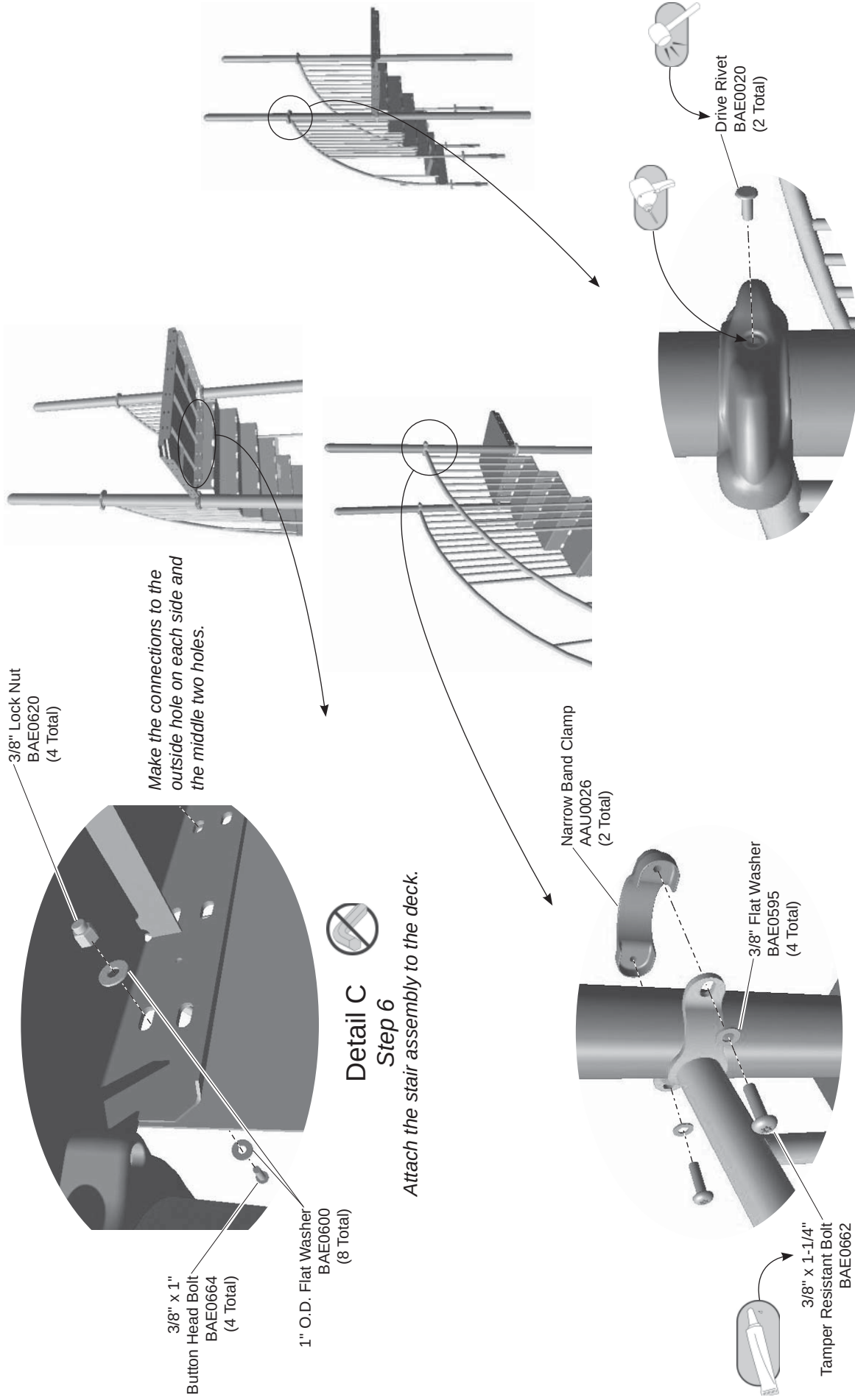
(In-Ground Models Only)
Attach the anchor legs to the barriers.



Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Component Footing Details (In-Ground Models) and Surface Mount Footing Detail** shown in the *Guidelines* at the beginning of this instruction booklet.

Step 4: (In-Ground Models only) Attach the anchor legs to the barriers. See **Detail A**. Position an anchor leg against the bottom of each barrier leg and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the barriers to the transfer station stair. See **Details B-1, B-2, B-3 and B-4**. Lay the transfer station stair on its side and attach the first barrier. Starting at the bottom of the stair, attach the barrier to the first step bottom riser. Then attach the barrier to the top of the first step. Attach the barrier to the second step riser as shown. And finally, attach the barrier to the top of the third, fourth and fifth steps. Turn the stair over and attach the second barrier in the same manner.

Step 6: Attach the stair assembly to the deck. See **Detail C**. With adequate manpower, place the stair assembly in, or on, it's footing and against the deck. The step riser must be flush against and level with the deck. Align the holes and attach as shown. Make the connections to the outside hole on each side and the middle two holes.

Step 7: Attach the barrier to the support posts. See **Detail D**. Place each band clamp around a post and against a barrier, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM0678 - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2	AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0588	BARRIER - 48" NUVO TRANSFER STATION (PM)	2	AEN0590	BARRIER - 36" NUVO TRANSFER STATION (PM)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4	AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4	BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	46	BAE0600	WASHER - 1" O.D. FLAT	38
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0226	FAB METAL - 83.35" x 48.67" x 47.61"	1	BPM0228	FAB METAL - 68.61" x 48.67" x 34.61"	1

PM0678S - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0588	BARRIER - 48" NUVO TRANSFER STATION (PM)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	30
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0226	FAB METAL - 83.35" x 48.67" x 47.61"	1

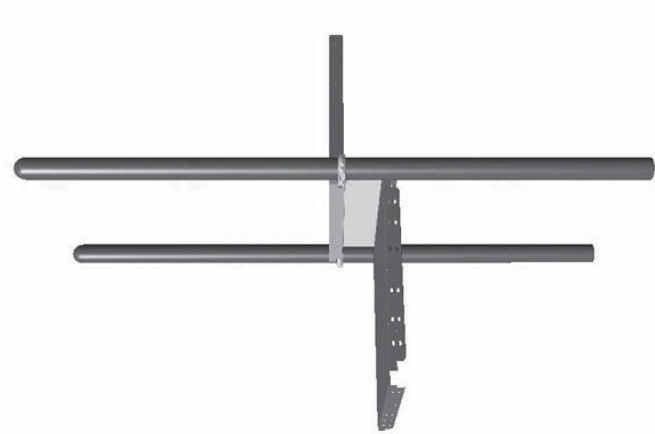
PM0679S - NUVO™ TRANSFER STATION 36 in. (914 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0590	BARRIER - 36" NUVO TRANSFER STATION (PM)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0228	FAB METAL - 68.61" x 48.67" x 34.61"	1



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Installation Instructions Playmakers® Model PM2805 Entry Support Bracket

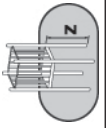


Assembly View

Installation Preparation

Recommended Crew:	One (1) adult
Installation Time:	0.5 man-hours
*Weight:	19.8 lbs. (9 kg)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

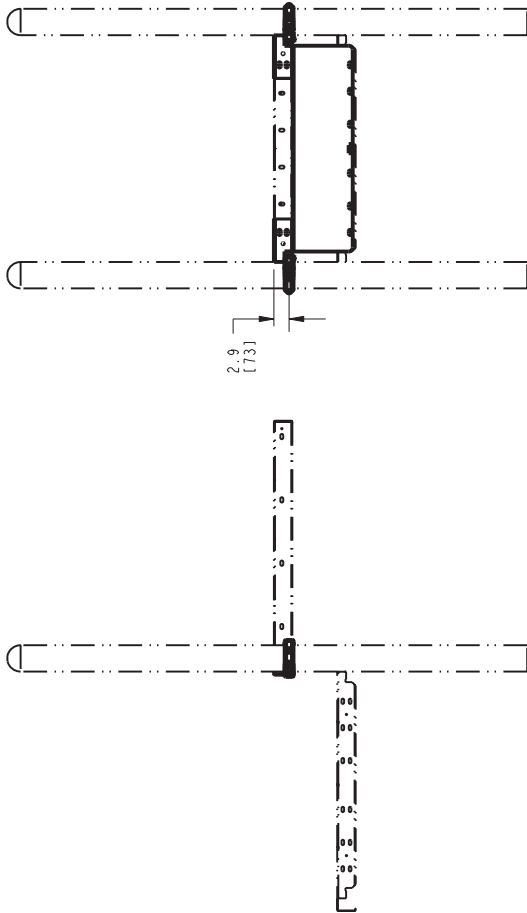
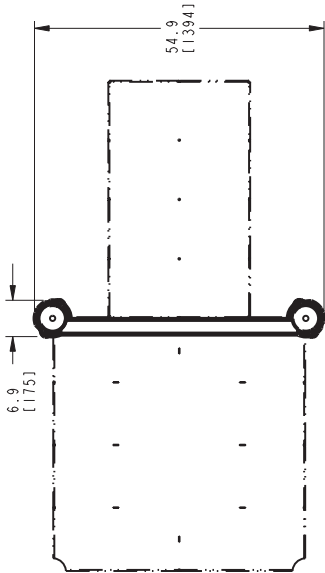
**Weights are approximate for determining manpower.*

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

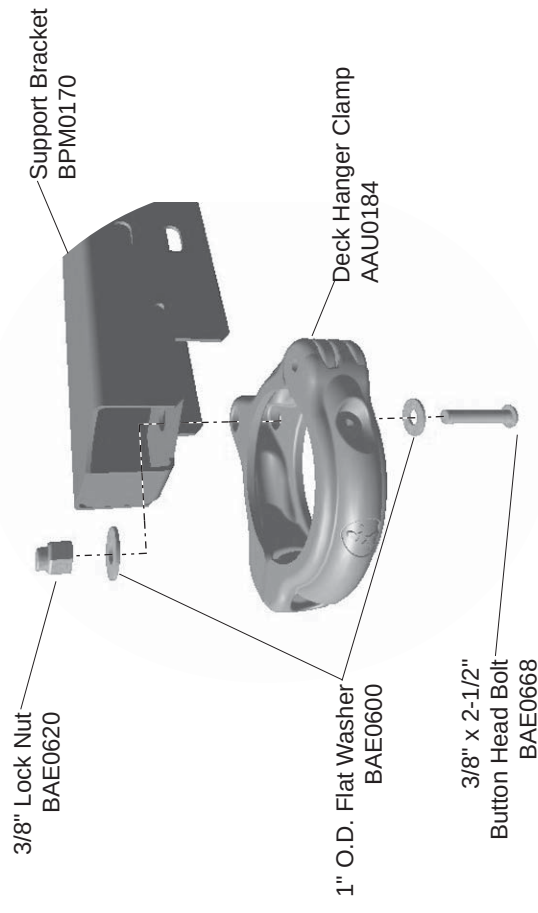
Top View



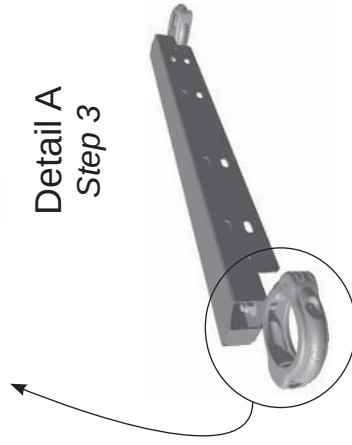
Elevation Views

Installation Instructions

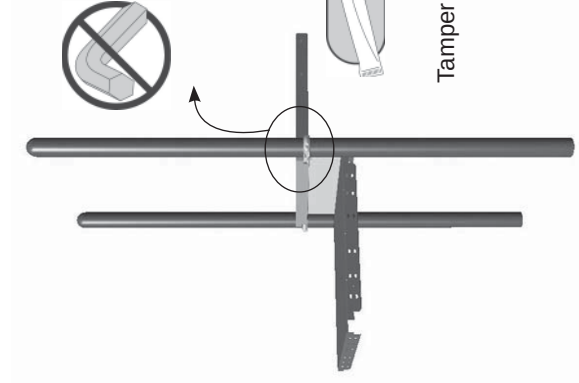
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



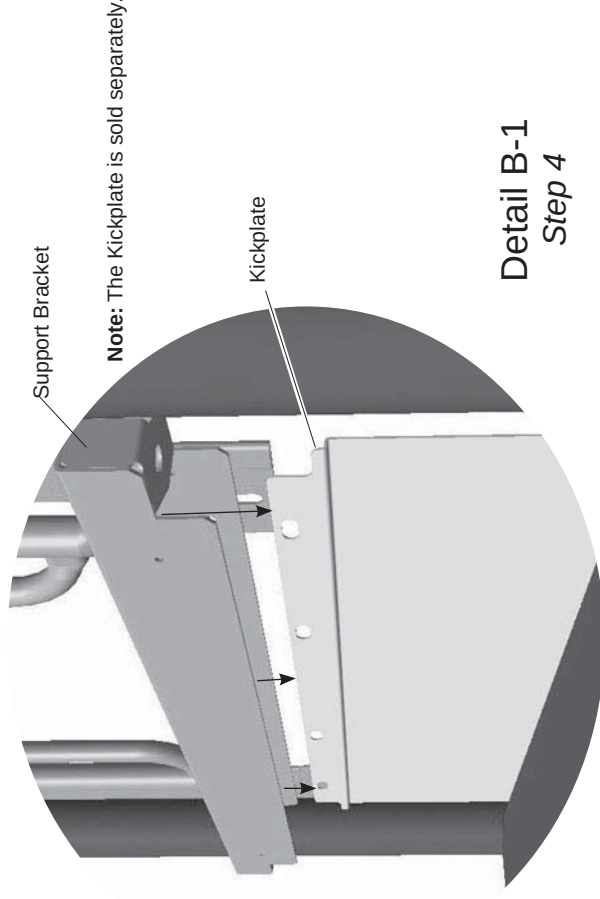
Detail A
Step 3



Detail A
Step 3



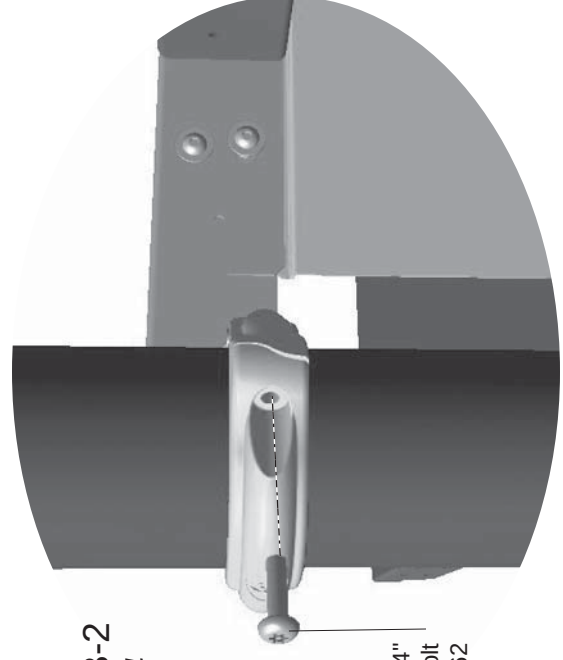
Detail B-2
Step 4



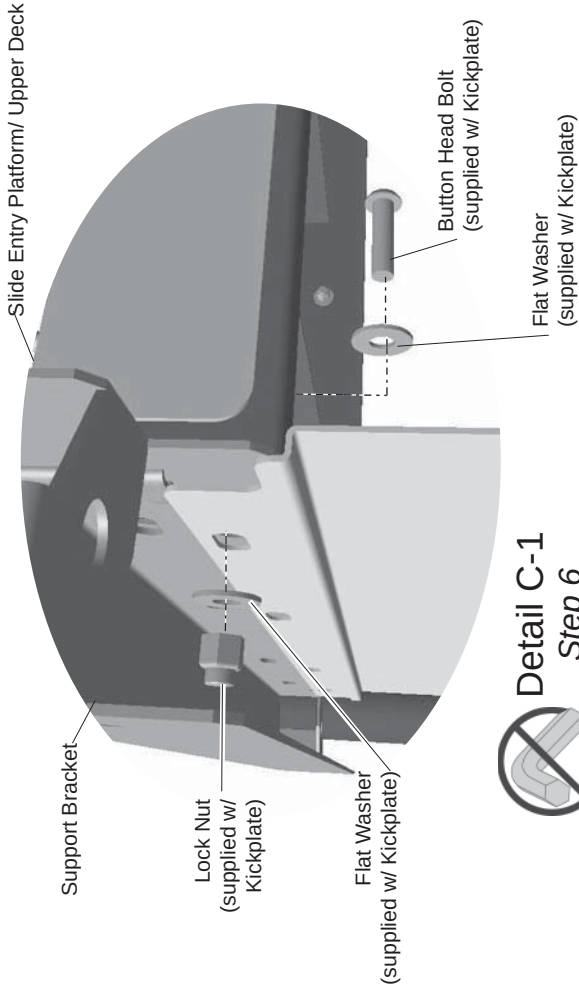
Detail B-1
Step 4

Note: The Kickplate is sold separately.

Important Note: The Kickplate fits inside of the support bracket with the bracket resting on the lip of the kickplate.



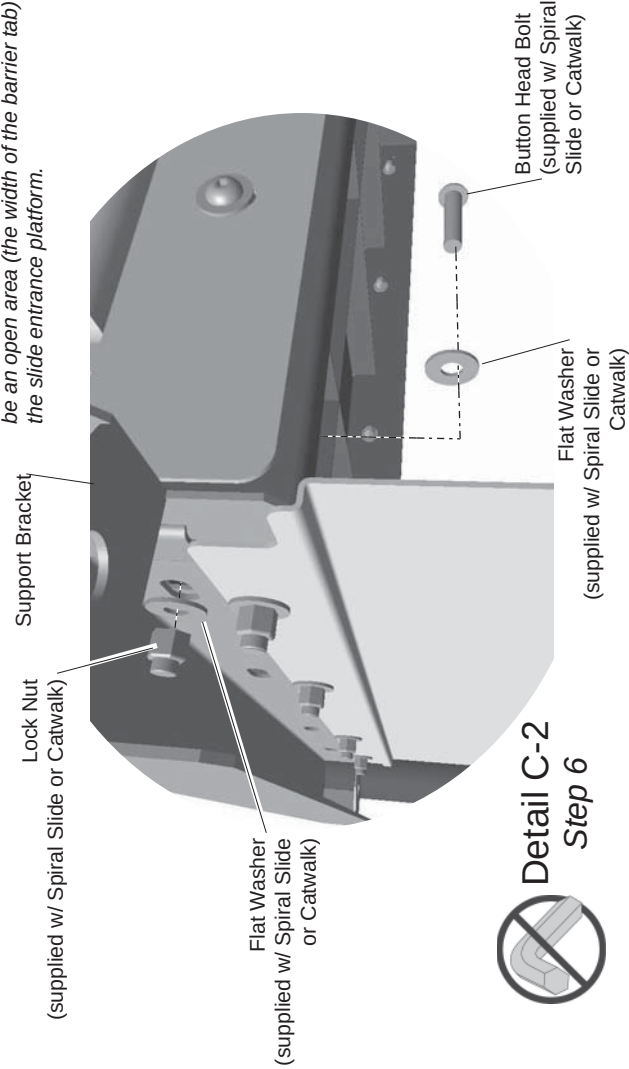
Installation Instructions



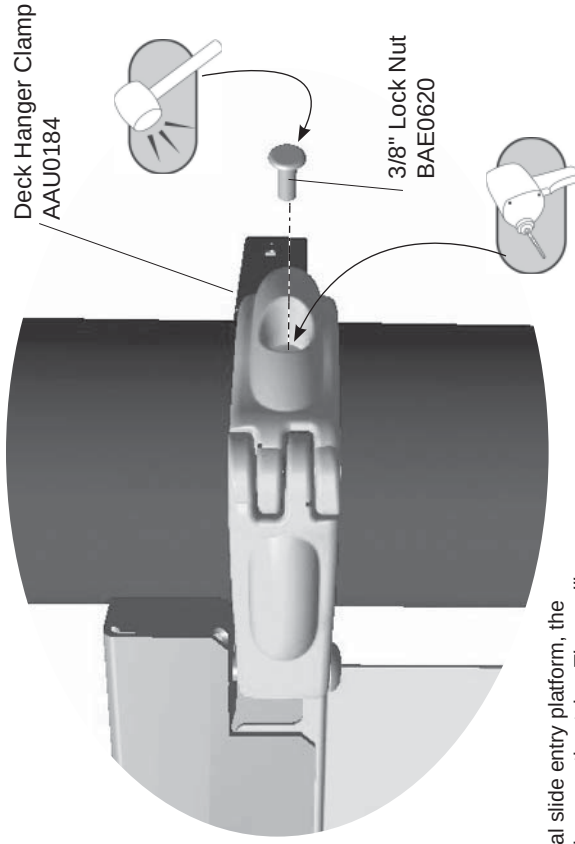
Detail C-1
Step 6

Note: The Kickplate is sold separately.

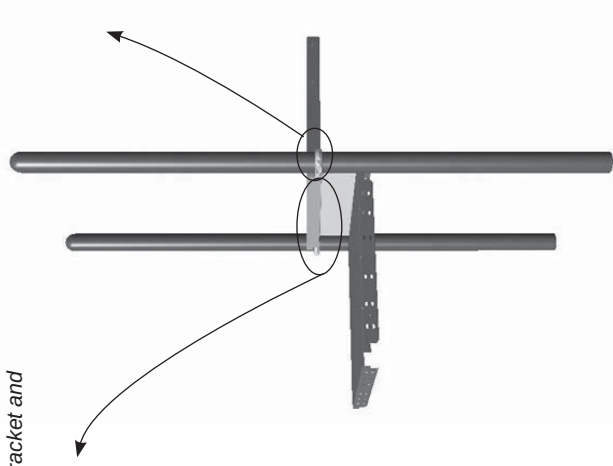
Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.



Detail C-2
Step 6



Detail D
Step 8



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the deck clamps to the Entry Support Bracket.

Step 3: Attach the deck clamps to the entry support bracket. See **Detail A**. Select the entry support bracket, the deck clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Orient the bracket as shown in **Detail A**. Attach the deck clamps as shown.

Attach the bracket assembly to the posts.

Step 4: Attach the bracket to the posts. See **Detail B-2** and **Side View**. Select the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the bracket between the support posts. Close the clamps around the posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Adjust the bracket so the surface is level. If applicable, the bracket should be aligned with the adjoining kickplate and/or the spiral slide/catwalk platform (refer to **Detail B-1**).

Note: The Kickplate is sold separately.

Spiral Slide/Catwalk Attachment:

Step 5: Assemble the spiral slide or catwalk selected for attachment to the entry support bracket in accordance with the specific installation instructions.

Step 6: Connect the spiral slide platform or catwalk to the entry support bracket, using the appropriate hardware and instructions. See **Details C-1** and **C-2** and **Side Views**. The upper edge of the kickplate will fit inside, and against, the narrower side of the support bracket (with the post cutouts).

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM2805 - ENTRY SUPPORT BRACKET

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BPM0170	BRACKET - 45.00" x 3.00" x 3.44" STEP UP	1

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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24" -60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

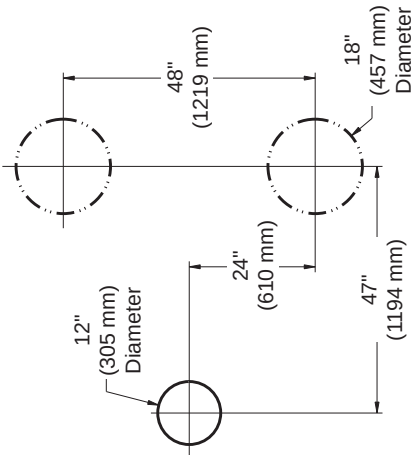


Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

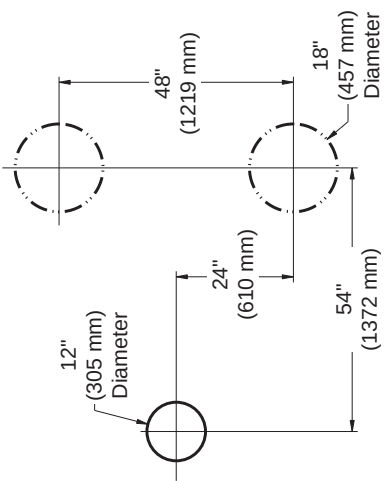
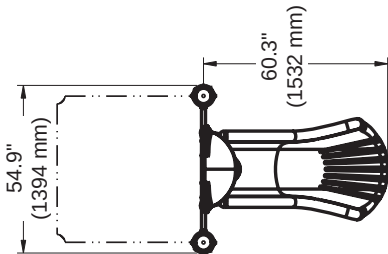
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

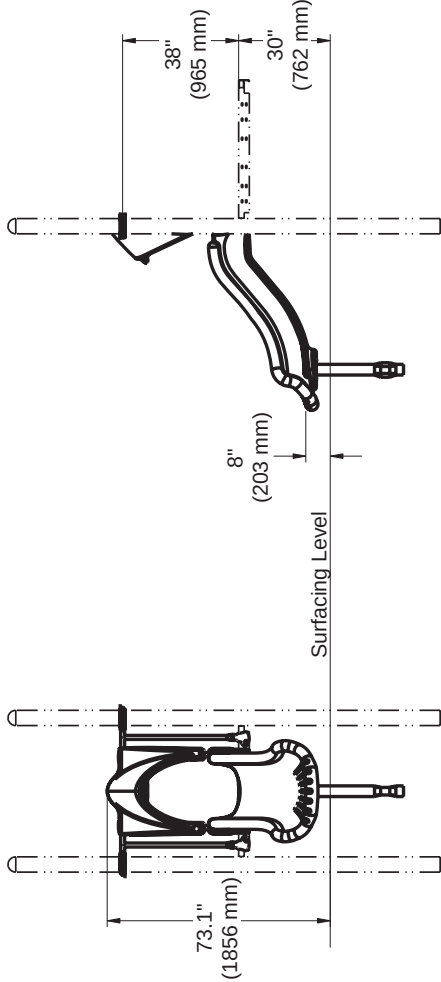
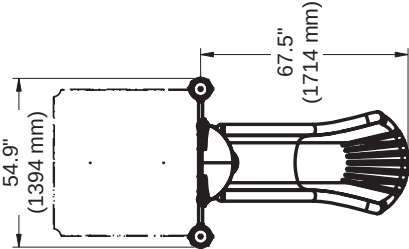


Footing Diagram

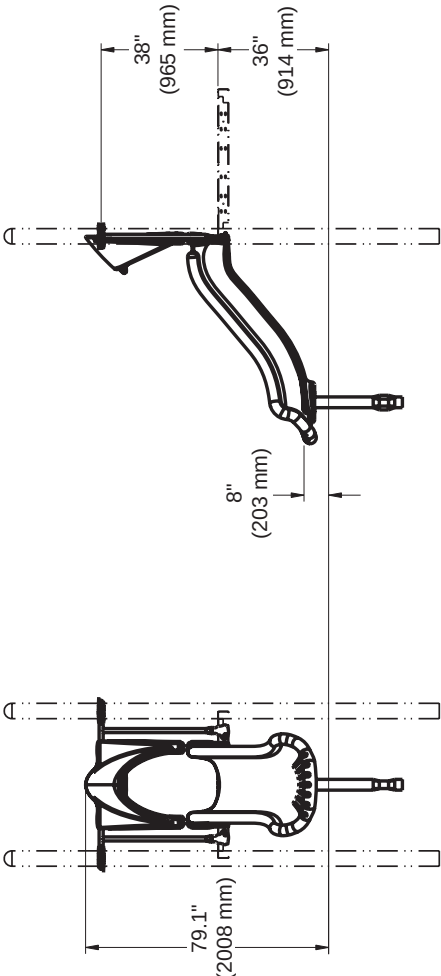
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram

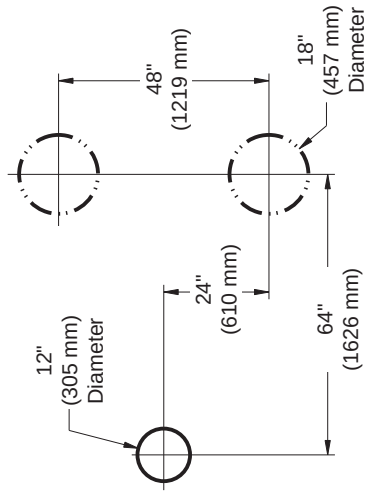


Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)

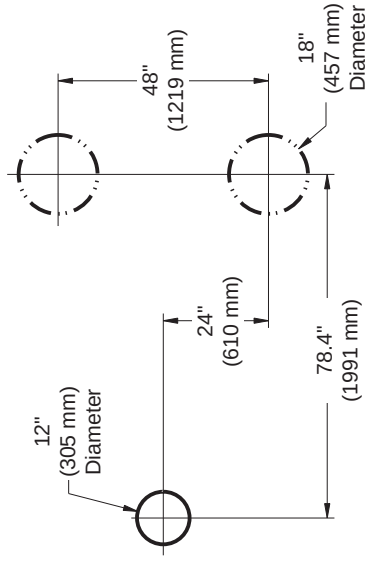


Elevation View PM3127 - 36" Glide Slide

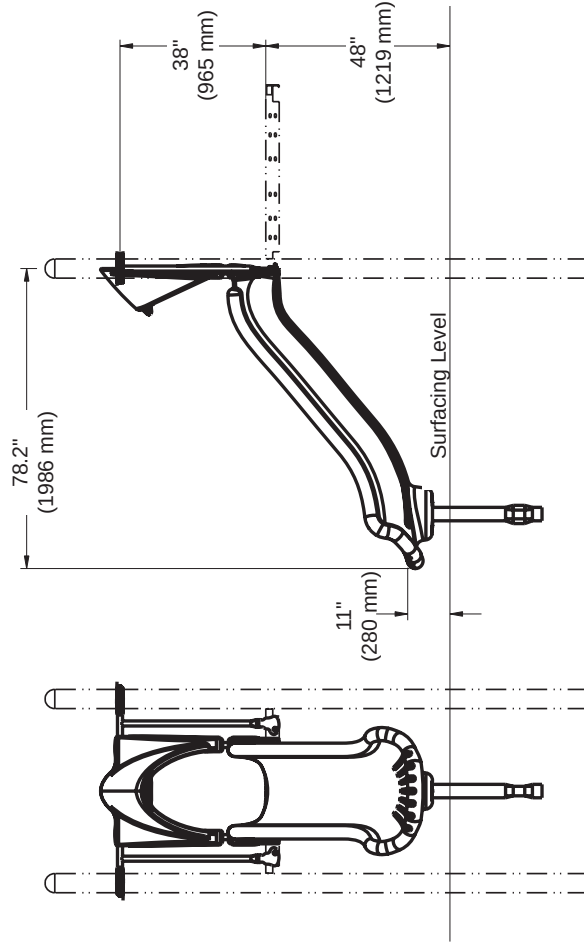
Installation Instructions



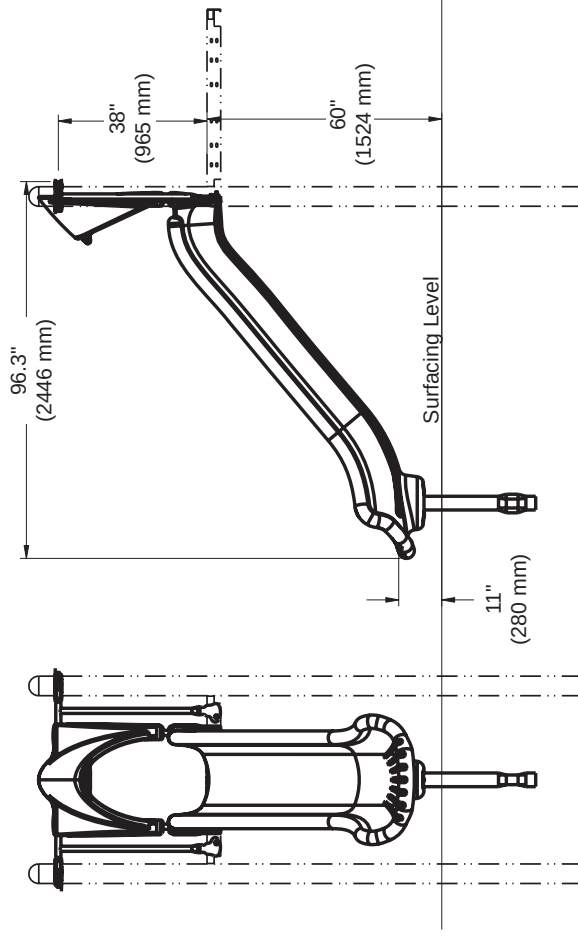
Footing Diagram



Footing Diagram

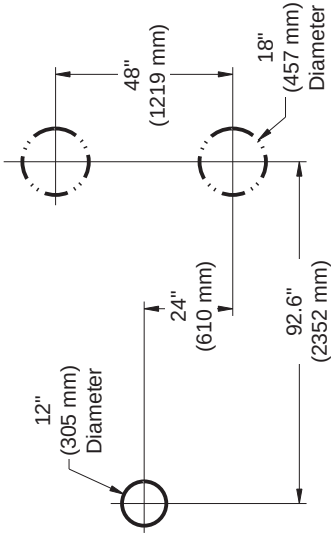


Elevation View PM3126 - 48" Glide Slide

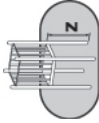


Elevation View PM2658 - 60" Glide Slide

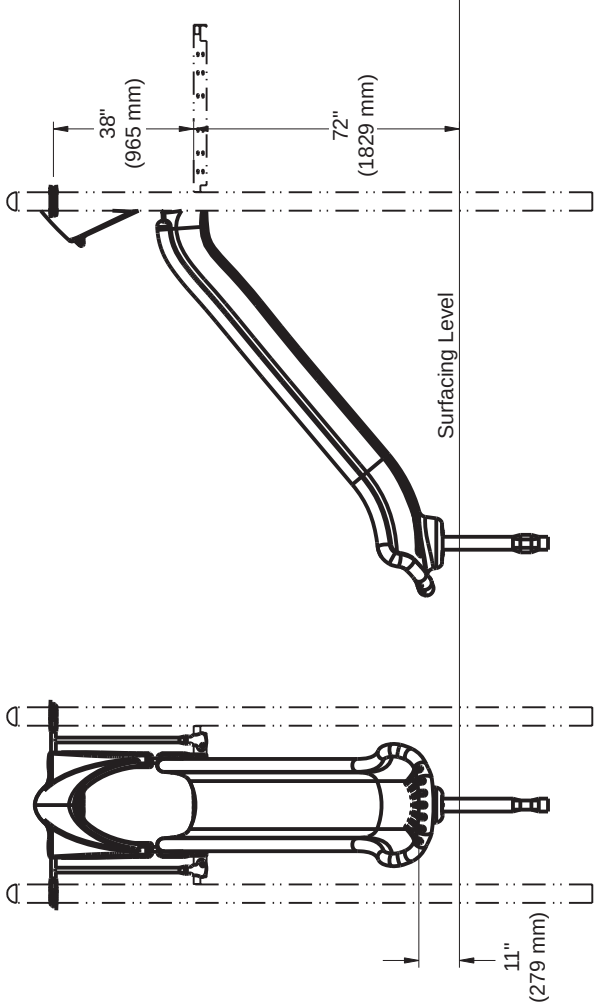
Installation Instructions



Footing Diagram



(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

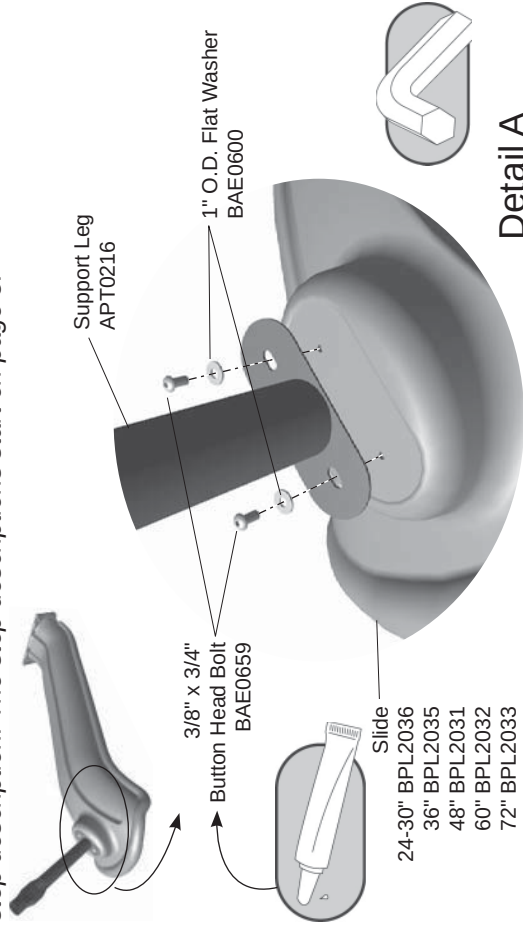


Elevation View PM2696 - 72" Glide Slide

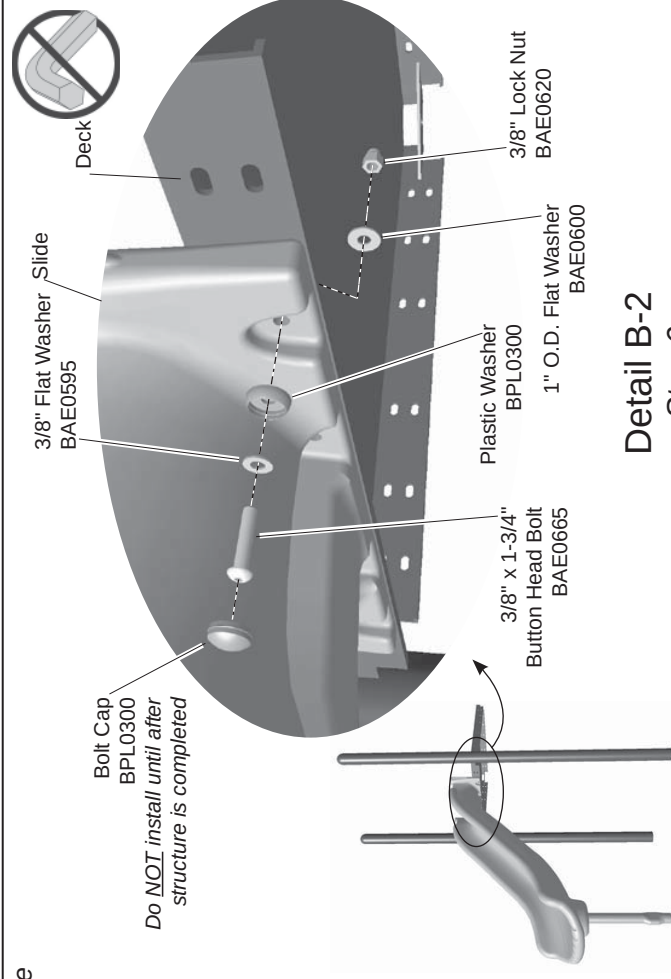


Installation Instructions

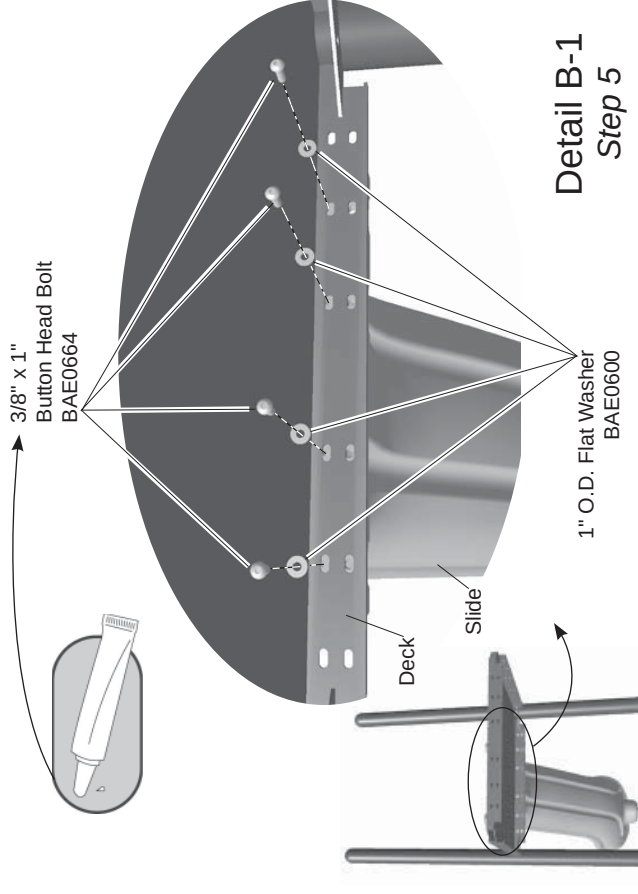
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



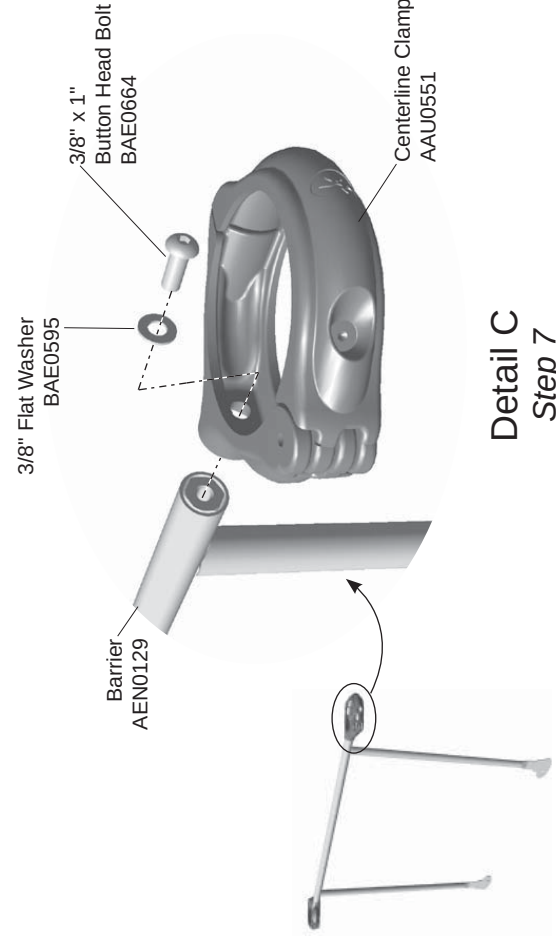
Detail A
Step 4



Detail B-2
Step 6

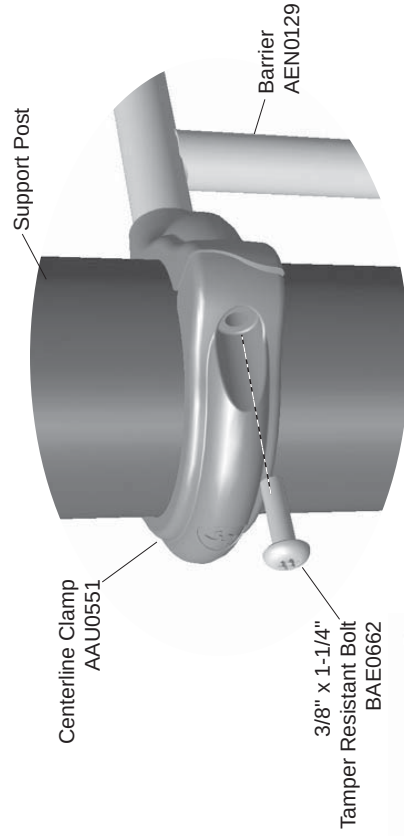


Detail B-1
Step 5

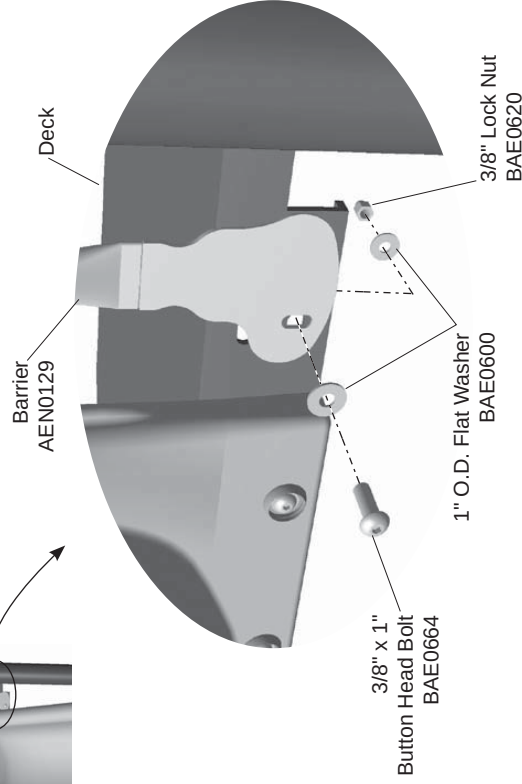
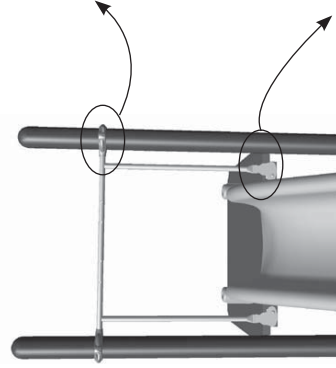


Detail C
Step 7

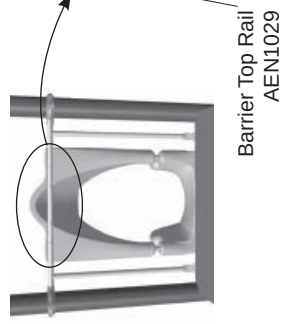
Installation Instructions



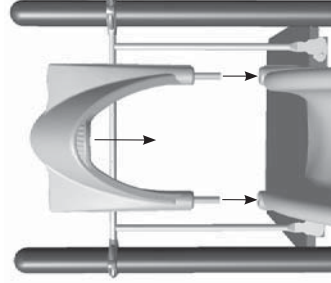
**Detail D-1
Step 8**



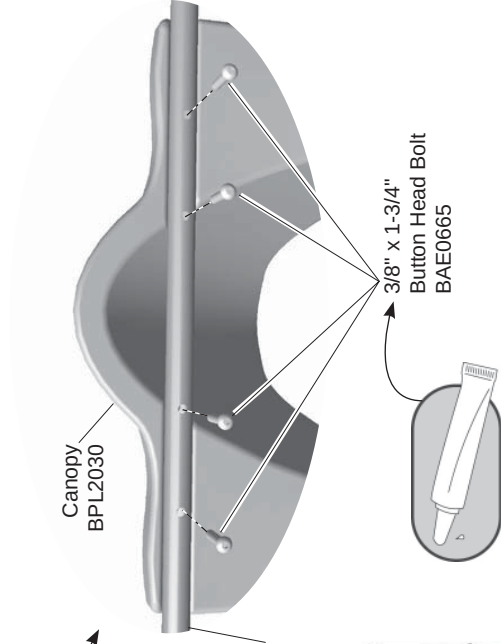
**Detail D-2
Step 9**



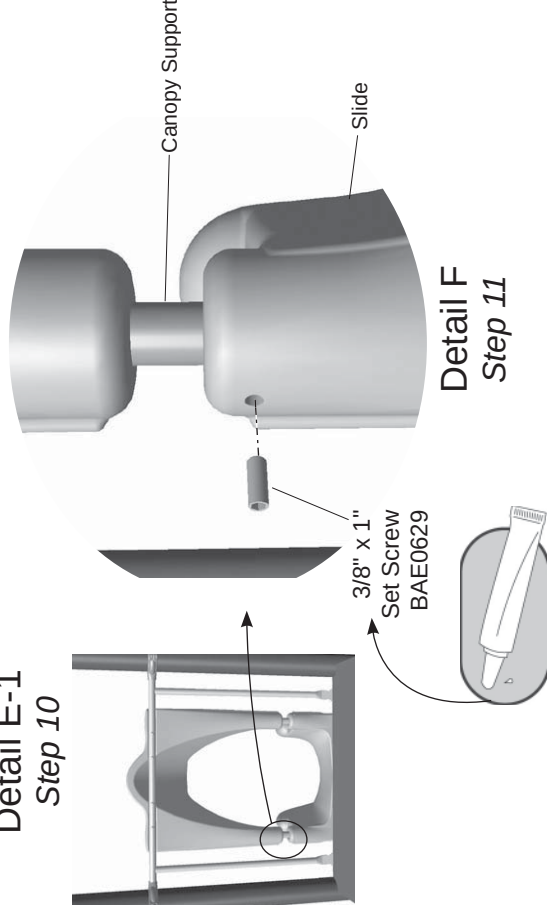
**Barrier Top Rail
AEN1029**



**Detail E-1
Step 10**

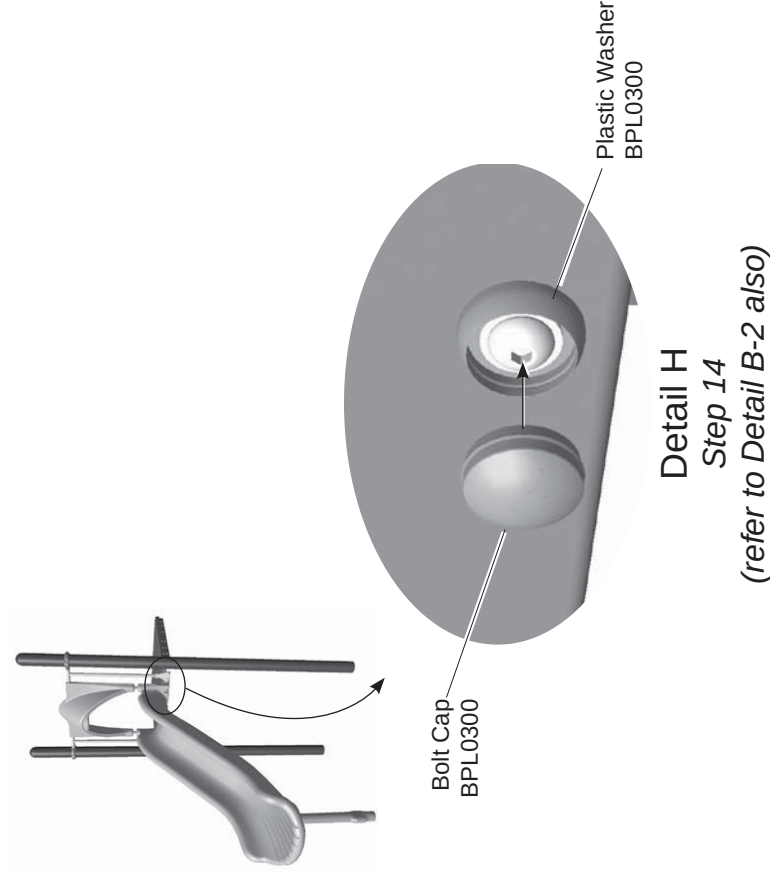


**Detail E-2
Step 10**

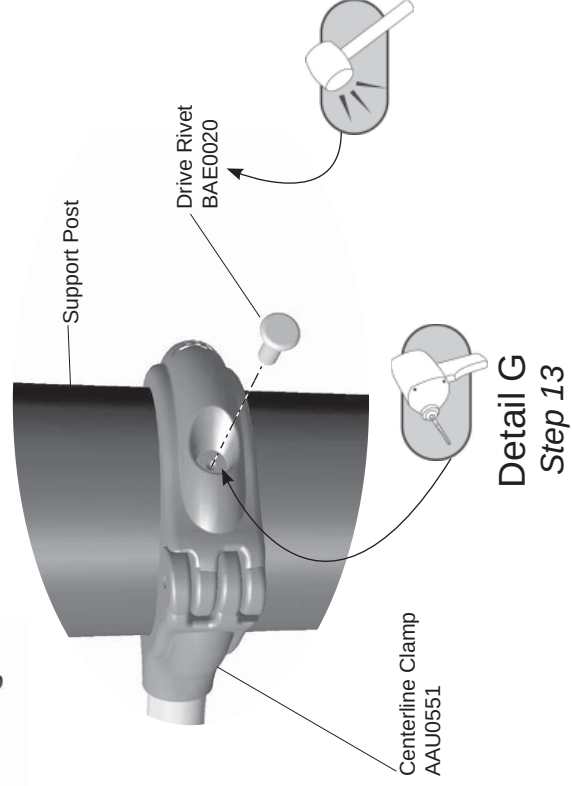
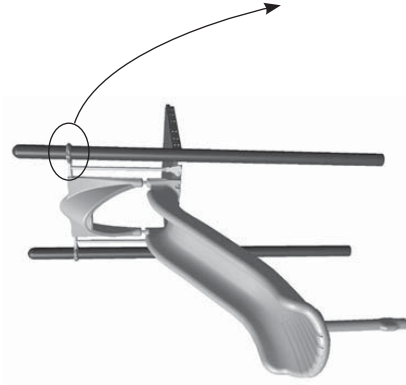


**Detail F
Step 11**

Installation Instructions



Step 12



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



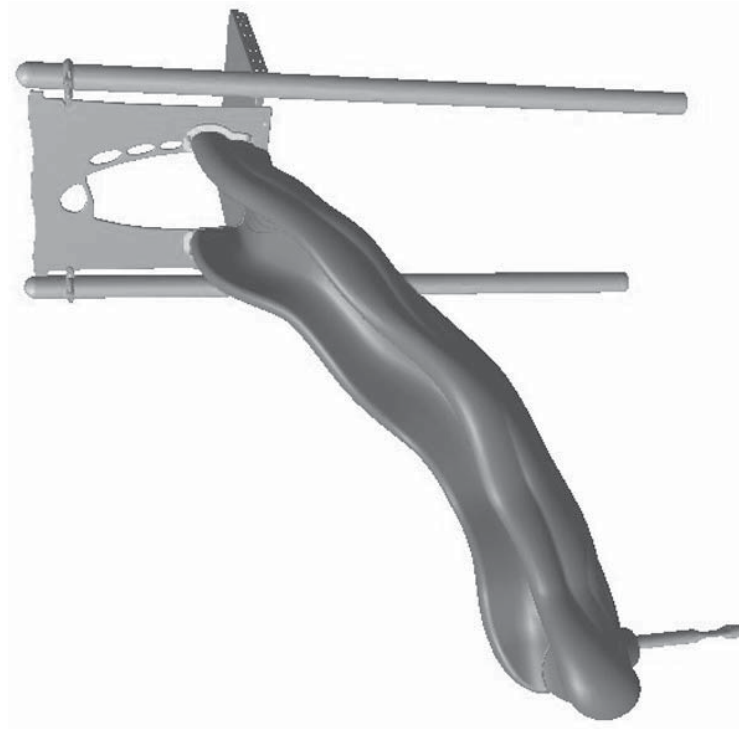
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Assembly View (representative model)

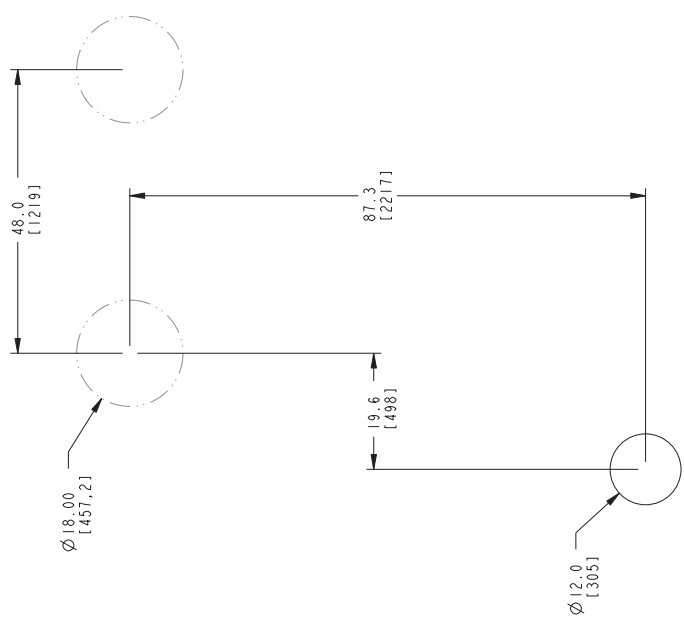
Installation Instructions Playmakers® Models PM3236 and PM3236S ZigZag Slide 60 in. (1524 mm) Deck In-Ground and Surface Mount

Installation Preparation

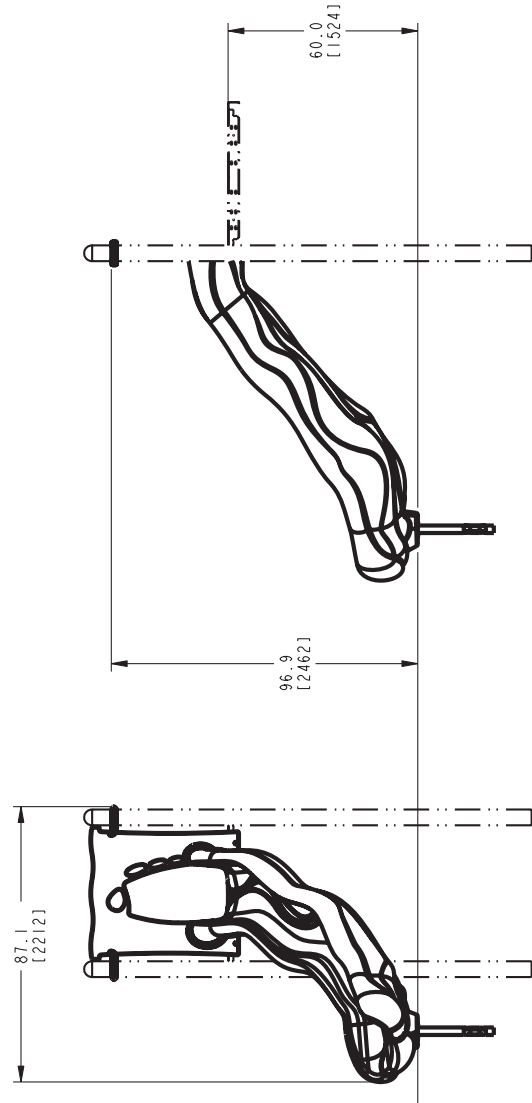
Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours (in-ground) 1 man-hour (surface mount)
Concrete Required:	0.03 cubic yard (0.02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

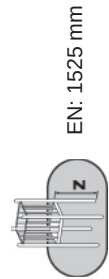


Top View



Elevation Views

Footing Diagram



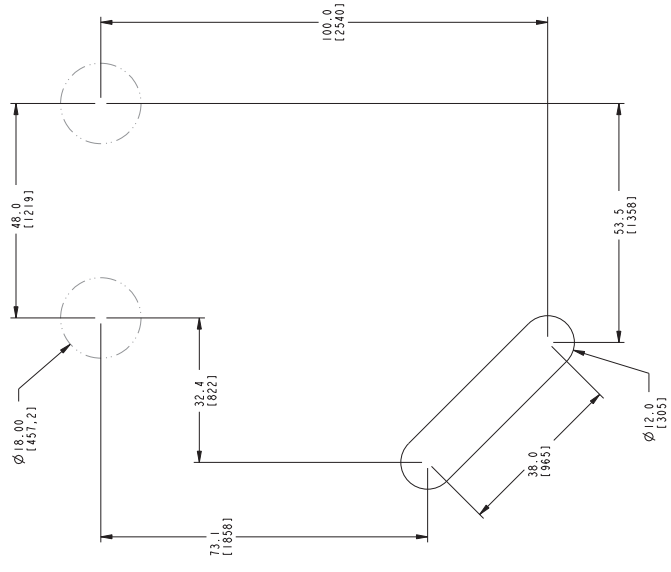
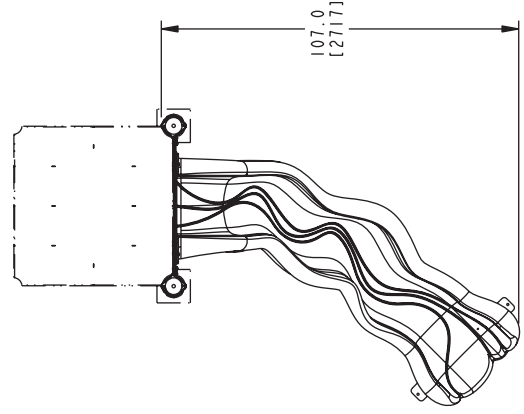
EN: 1525 mm

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

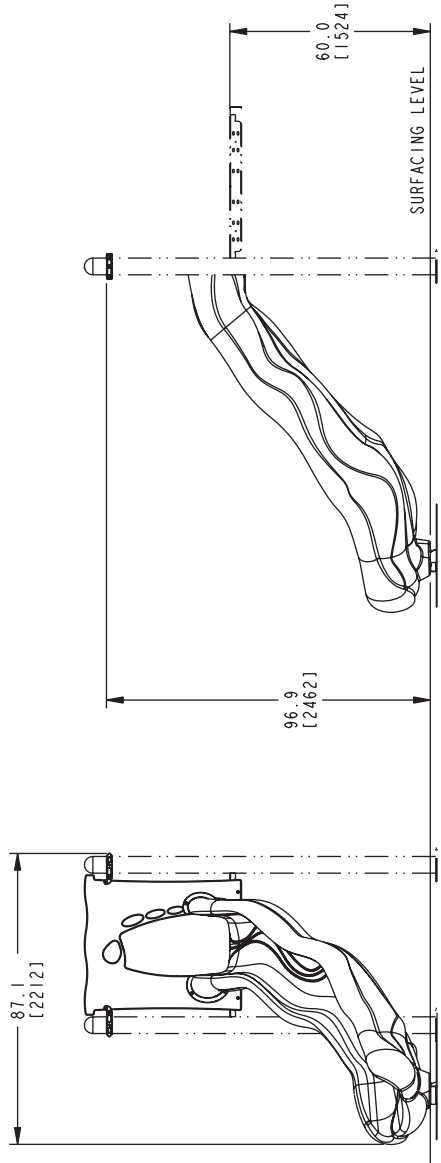


Installation Instructions

Top View



Footing Diagram



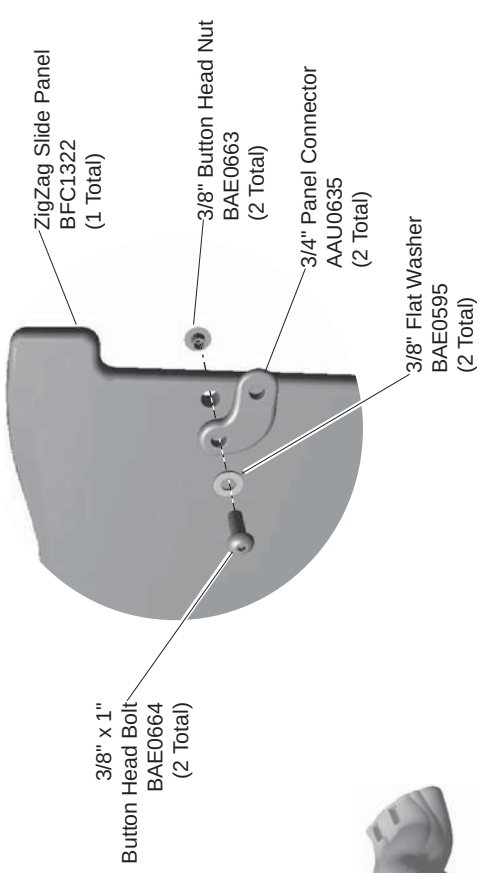
KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Elevation Views



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

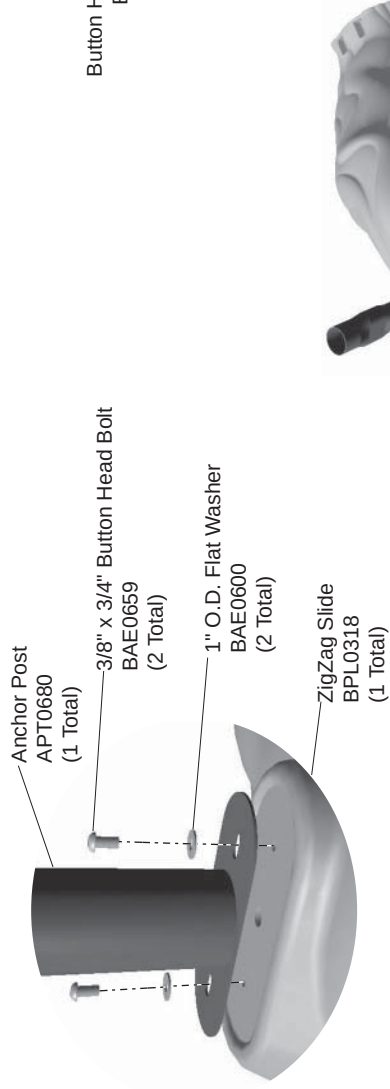


Detail B-1
Step 5
Attach the panel connectors
to the panel.

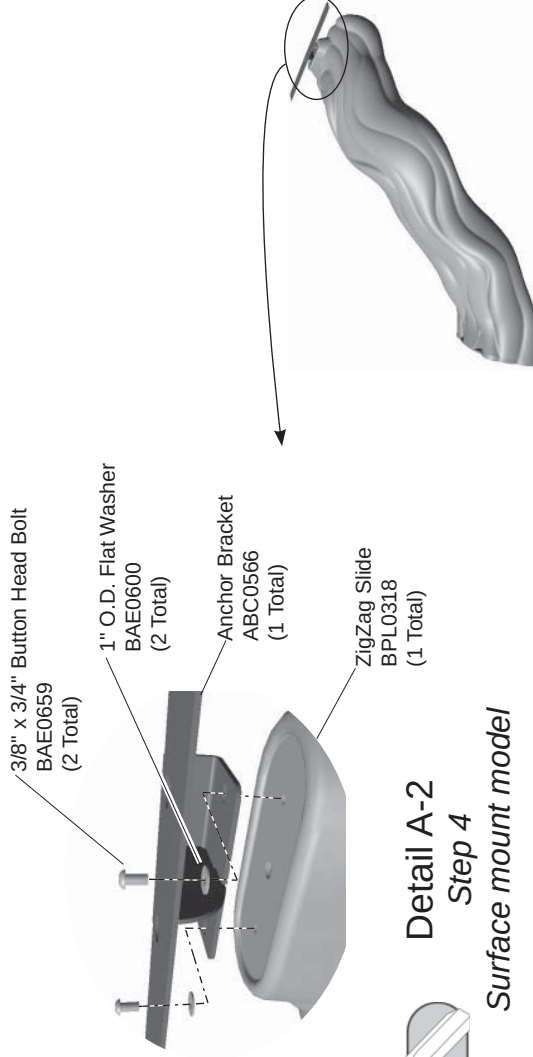


Note: In case of clamp
interference the panel
connectors can be rotated
and attached to the panel
in this manner.

Detail B-2



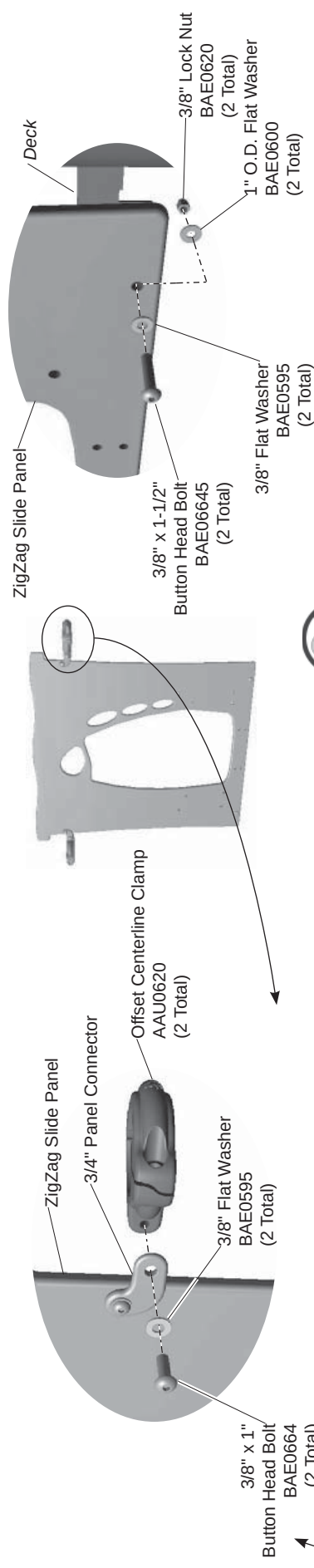
Detail A-1
Step 4
In-ground model



Detail A-2
Step 4
Surface mount model

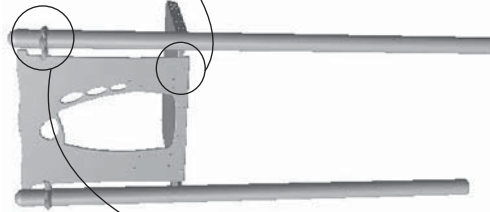


Installation Instructions

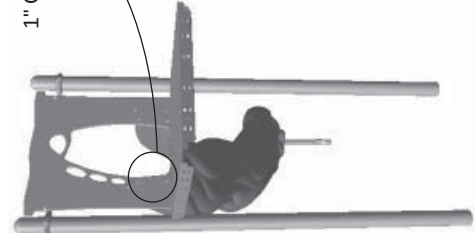
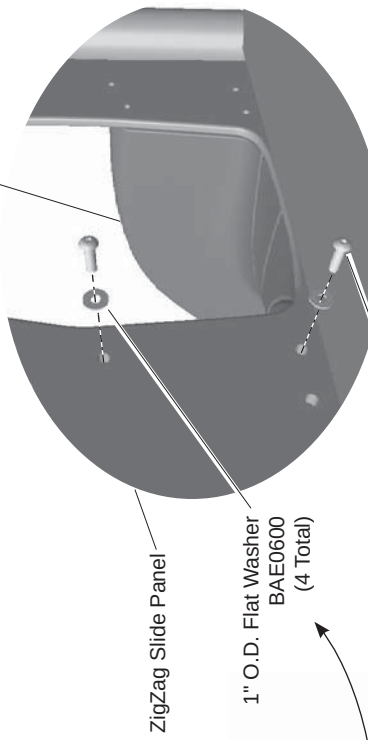
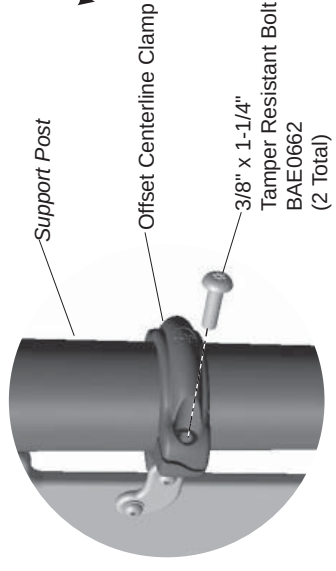


Detail D-2 **Step 7**

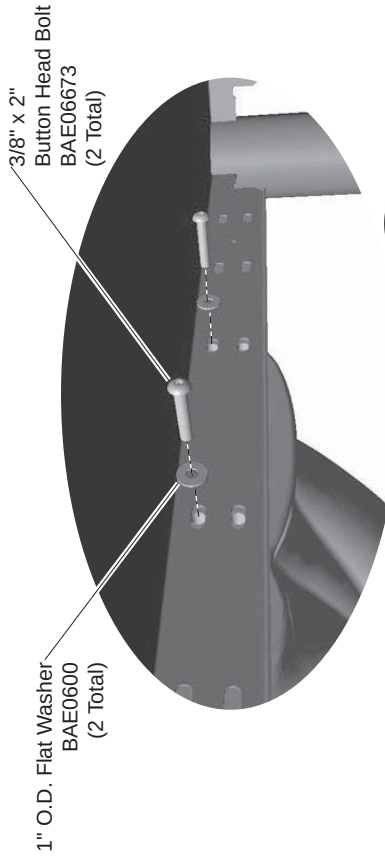
Attach the bottom sides of the panel to the deck.



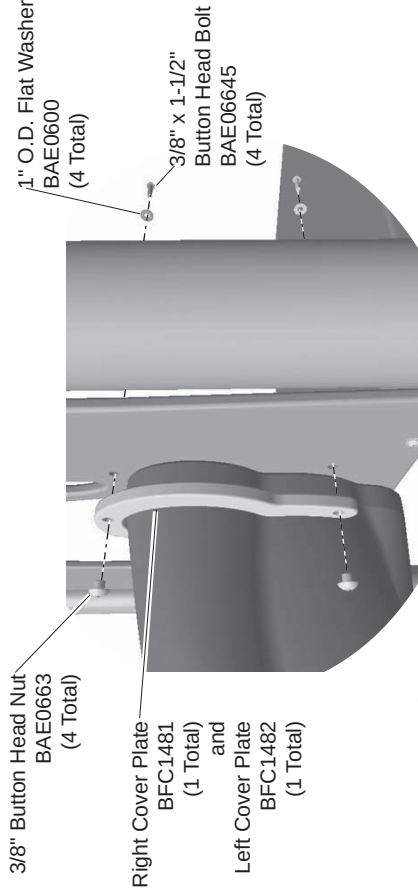
Note: the holes in the bottom of the panel must align with the holes in the deck.



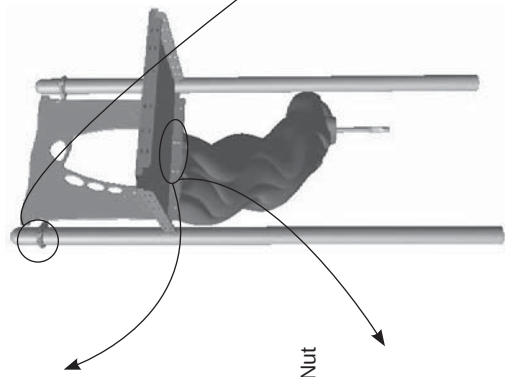
Installation Instructions



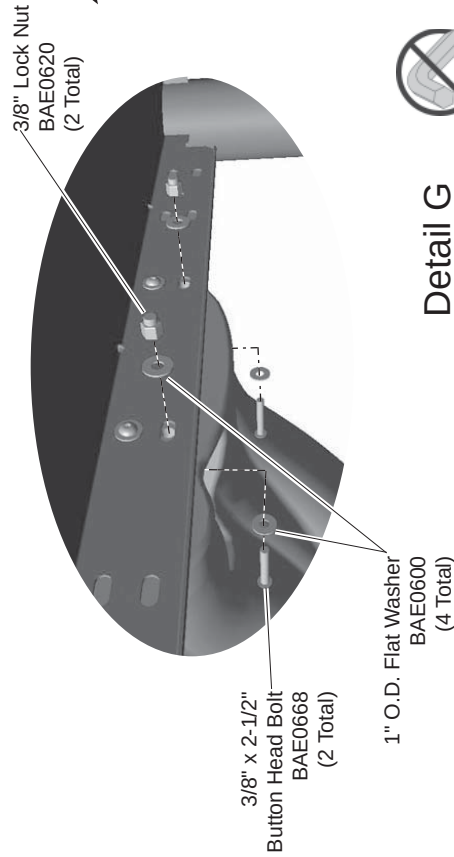
Detail F
Step 9
Attach the slide to the panel and deck (upper connections)



Detail H
Step 11
Attach the cover plates to the panel



Detail G
Step 10
Attach the slide to the panel and deck (lower connections)



Detail J
Step 13
Secure the clamps to the posts

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate / prepare footings as shown in the **Footings Details** in the Guidelines at the beginning of this booklet. Use the **Component Footing Details** for the in-ground model.

Step 4: Attach the anchor post / anchor bracket to the slide. See **Detail A-1** or **Detail A-2**. Attach the post, or bracket, that came with your slide as shown in the appropriate detail.

Step 5: Attach the panel connectors to the routed side of the slide panel. See **Detail B-1**. Attach the connectors to the panel as shown. In the event of a clamp interference with another component, the connectors can be rotated and attached as shown in **Detail B-2**.

Step 6: Attach the clamps to the panel connectors. See **Detail C**. Attach the clamps to the *deck side* of the connectors as shown.

Step 7: Attach the clamps to the support posts and the bottom sides of the panel to the deck. See **Details D-1 and D-2**. Position the panel against the deck and attach the clamps to the posts as shown. Align the holes in the panel with the holes in the deck and attach the bottom sides of the panel to the deck as shown.

Step 8: Attach the slide to the panel. See **Detail E**. Position the slide against the panel with the anchor post / bracket in, or on, the footing and attach as shown.

Step 9: Attach the slide to the panel and deck (*upper connections*). See **Detail F**. From beneath the deck, attach the slide to the upper holes in the deck as shown.

Step 10: Attach the slide to the panel and deck (*lower connections*). See **Detail G**. From beneath the slide, attach to the lower holes in the deck as shown.

Step 11: Attach the cover plates to the panel. See **Detail H**. Place the cover plates around the top of the slide and against the panel and attach as shown.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**. The slide exit height should be 8.2 in. (208 mm) from the protective surfacing.

Note: Slide exit height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 13: Install the drive rivets. See **Detail J**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Step 15: Apply the hood string entanglement warning label to the slide.



Bill of Materials

PM3236 - ZIGZAG SLIDE 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0680	POST - 24.30" x 9.76" x 3.76"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3236S - ZIGZAG SLIDE 60 in. (1524 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
ABC0566	BRACKET - 40.00" x 5.50" x 2.25" SURFACE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

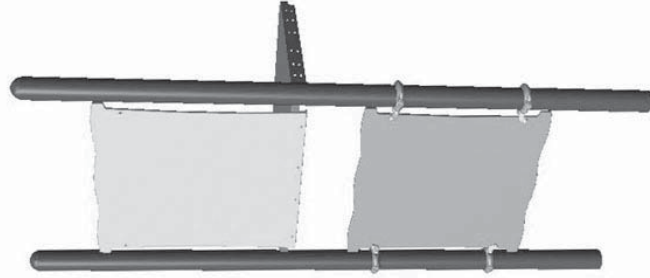


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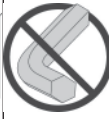
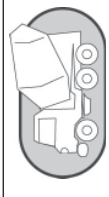
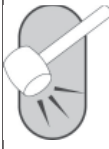
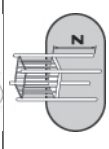
Assembly View (representative model)

Model	Description	Weight
ZZPM4298	ABC and 123	53.4 lbs. (24,3 kg)
ZZPM4319	Find the Way Home	54.3 lbs. (24,7 kg)
ZZPM4369	Design-A-Panel	49.8 lbs. (22,6 kg)

Installation Instructions Playmakers® Models PM4298, PM4319, PM4369 ABC and 123 Panel, Find the Way Home Panel, and Design-A-Panel Ground Level

Installation Preparation

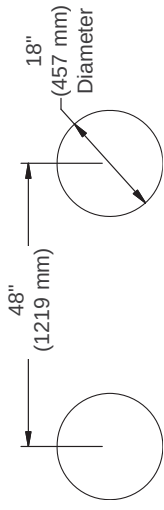
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Weight: Refer to Chart
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

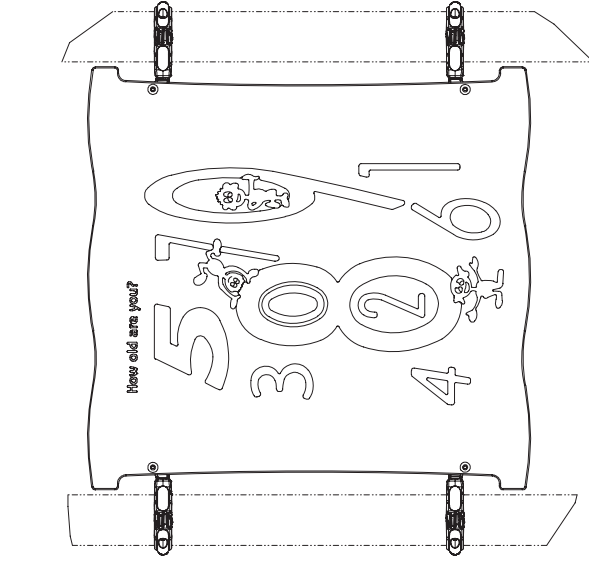
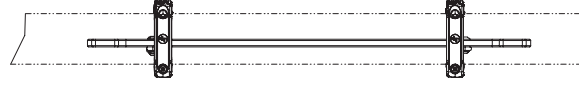
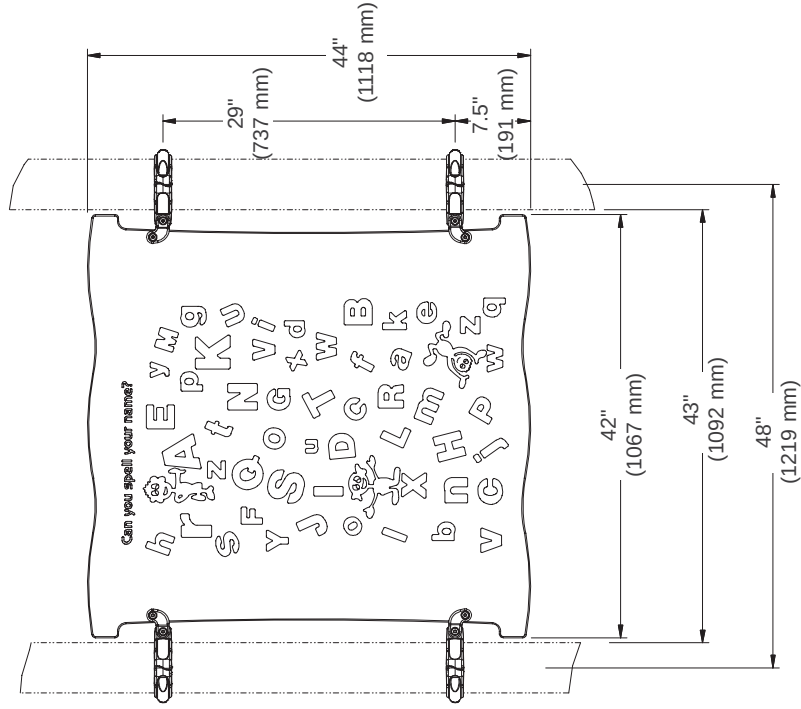
Installation Instructions

Important Notes:

- When panel is positioned under a deck, the TOP edge of the panel must be less than 3.5 in. from the bottom edge of the deck or more than 9 in. to prevent any entrapment issues.
- If the panel is mounted above a deck, the LOWER edge of the panel must be less than 3.5 in. from the surface of the deck or more than 9 in. to prevent any entrapment issues.



Footing Diagram

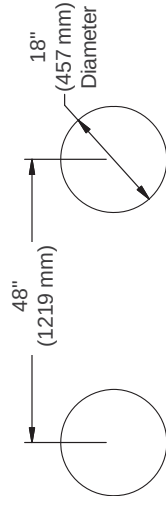


Elevation Views
PM4298

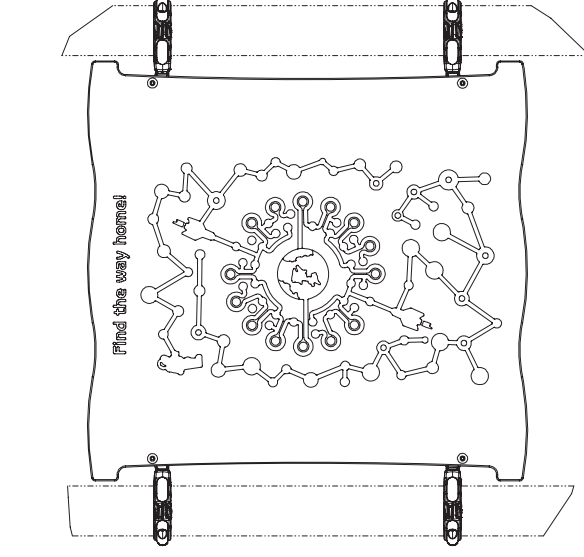
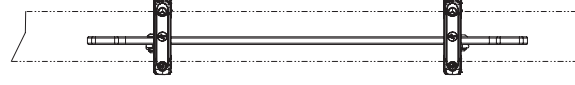
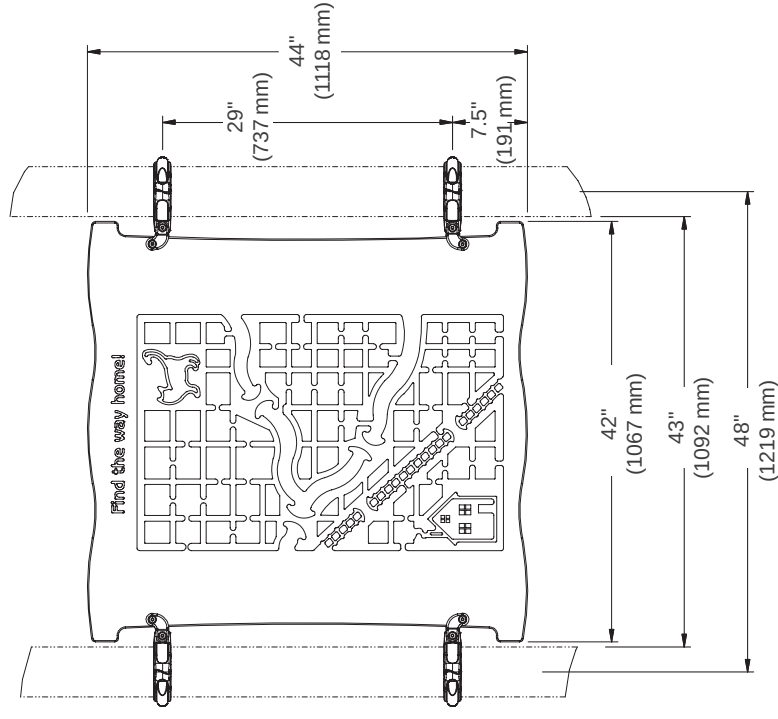
Installation Instructions

Important Notes:

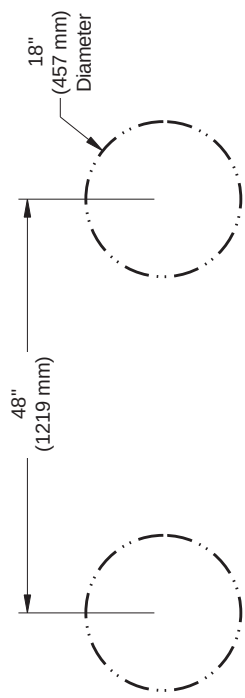
- When panel is positioned under a deck, the TOP edge of the panel must be less than 3.5 in. from the bottom edge of the deck or more than 9 in. to prevent any entrapment issues.
- If the panel is mounted above a deck, the LOWER edge of the panel must be less than 3.5 in. from the surface of the deck or more than 9 in. to prevent any entrapment issues.



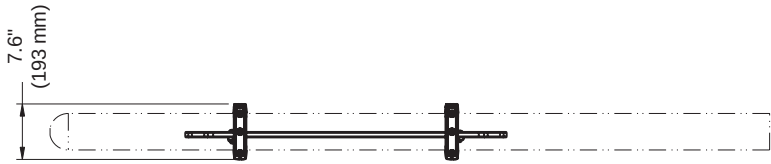
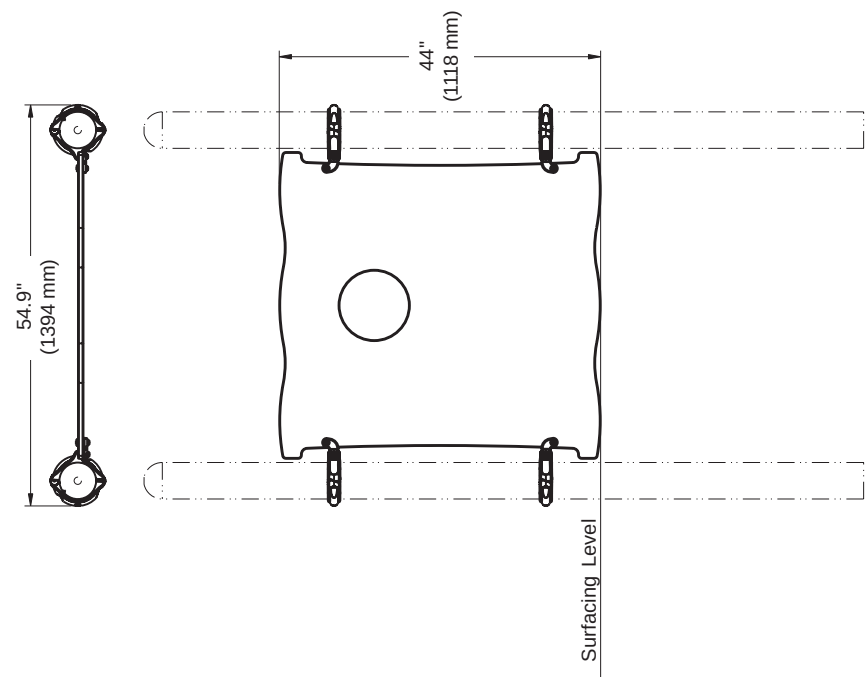
Footing Diagram



Elevation Views PM4319



Top View



Footing Diagram

Important Notes:

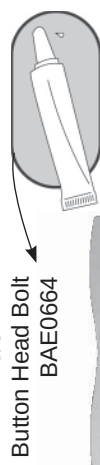
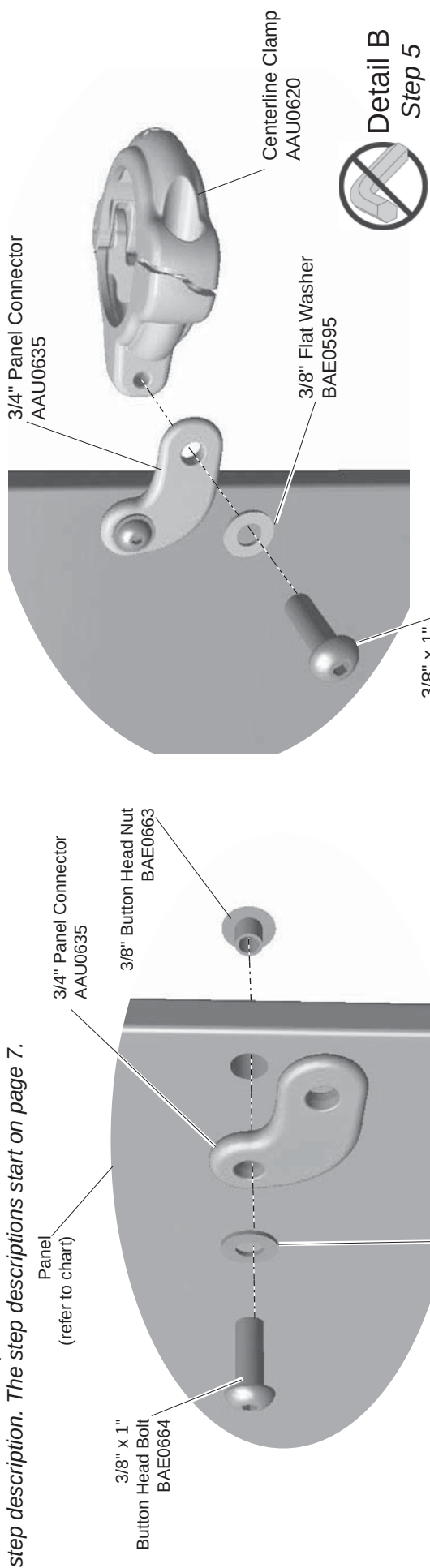
- When panel is positioned under a deck, the TOP edge of the panel must be less than 3.5 in. from the bottom edge of the deck or more than 9 in. to prevent any entrapment issues.
- If the panel is mounted above a deck, the LOWER edge of the panel must be less than 3.5 in. from the surface of the deck or more than 9 in. to prevent any entrapment issues.

Elevation Views
PM4369



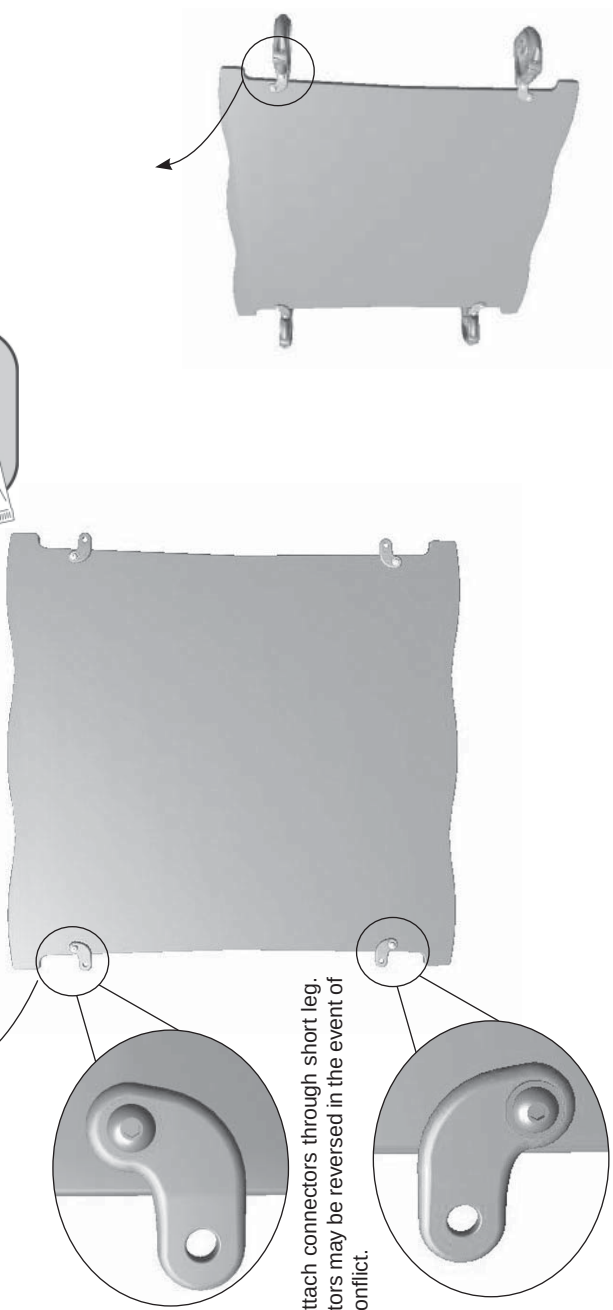
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

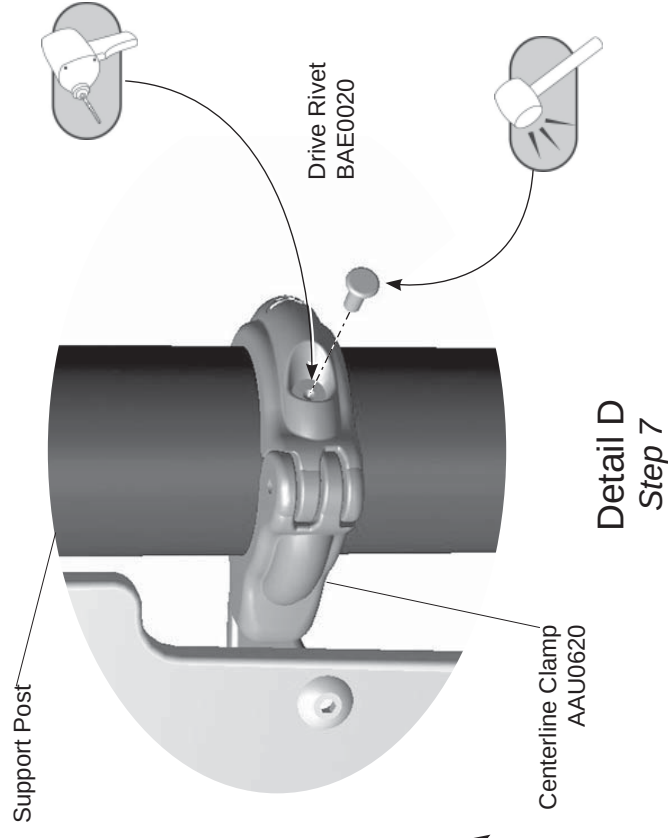
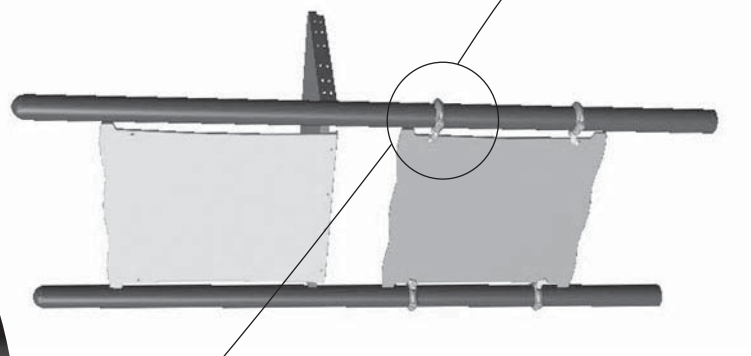
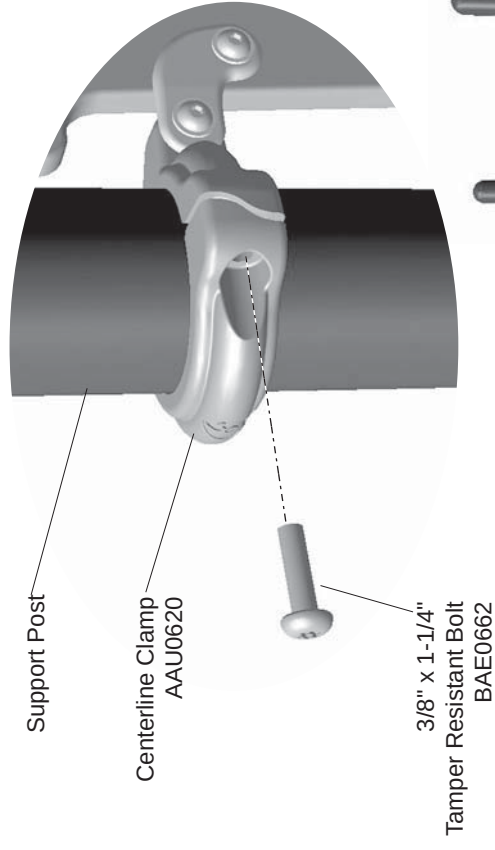


Model	Panel Part Number
ZZPM4298	BFC0354
ZZPM4319	BFC0342
ZZPM4369	CFG0002

Note: Attach connectors through short leg. Connectors may be reversed in the event of clamp conflict.



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Determine the location of the panel by referring to the master structure layout drawing. Decide the orientation of panel - either side can face out.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the panel, the panel connectors, and the appropriate hardware. There are (4) four connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points up on the upper connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face out). Align the hole in the short leg with a side hole in the panel. Attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the offset centerline clamps and the appropriate hardware. There are (4) four connections. Place the flat side of each clamp against the panel side of the connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

__Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the appropriate hardware. There are (4) four connections. Move the panel into position against the deck aligning the lower holes with the bottom set of holes in the deck. Close the clamps around the support posts. Attach as shown. Leave connections loose for alignment adjustments.

Note: In the event of a clamp conflict with an adjacent component, the connector can be flipped upside down and reconnected to the panel. Both the clamps should be mounted at the same height.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM4298 - ABC AND 123 PANEL GROUND LEVEL

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4	AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4	AAU0635	CONNECT - 3/4" PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4	BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8	BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4	BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BFC0354	SHEET - 42" x 44" ABC and 123 PANEL	1	CFG0002	SHEET - 42.00" x 44.00" DESIGN-A-PANEL (GRND. LEVEL)	1

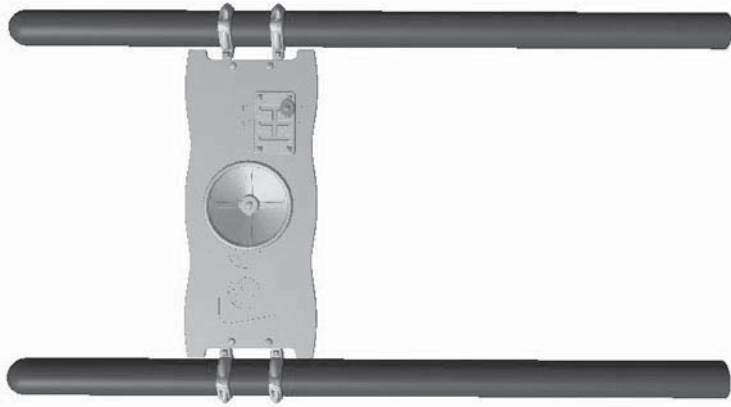
PM4319 - FIND THE WAY HOME PANEL GROUND LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BFC0342	SHEET - 42" x 44" FIND THE WAY HOME PANEL	1



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Assembly View

Installation Instructions Playmakers® Model PM4406 Accessible Driving Panel

Installation Preparation

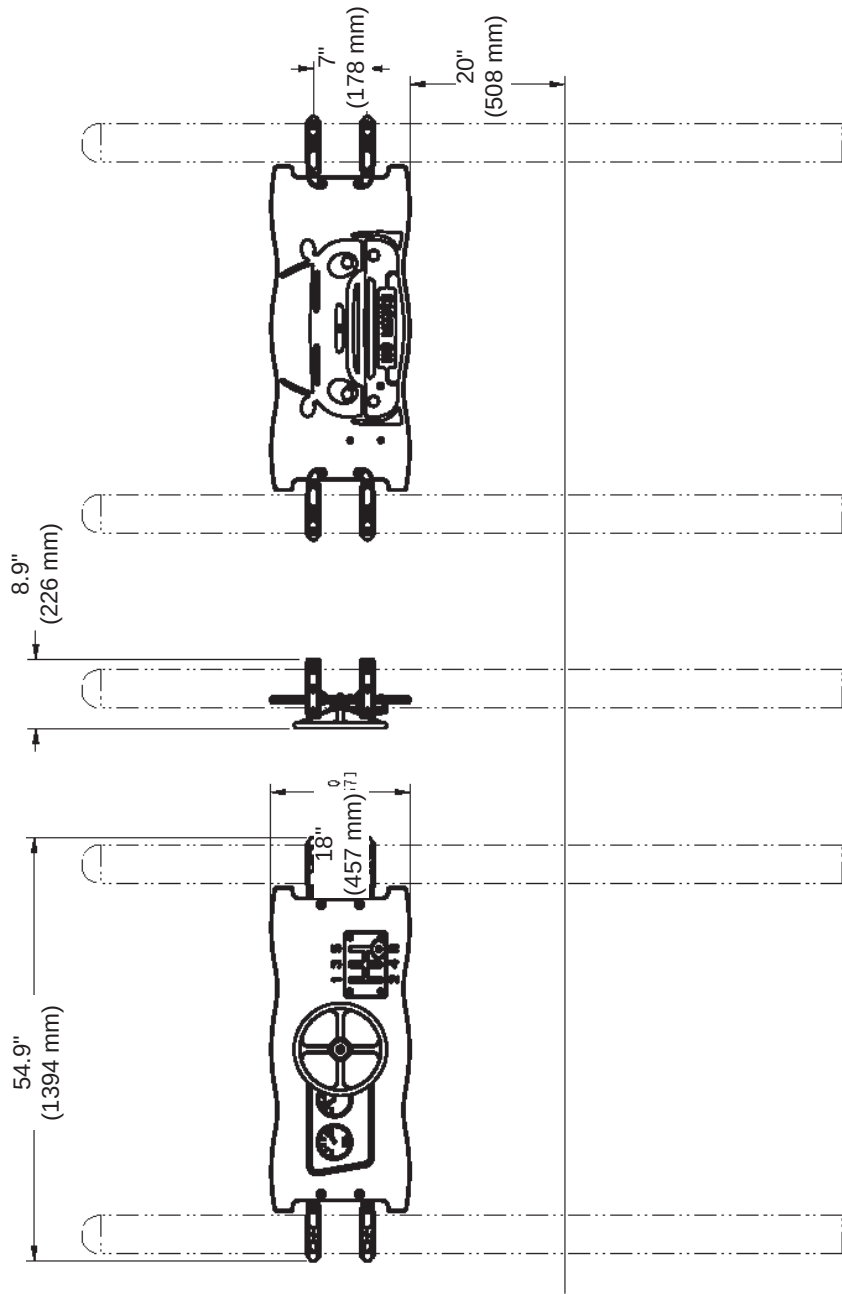
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: *31.6 lbs. (14.4 kg)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

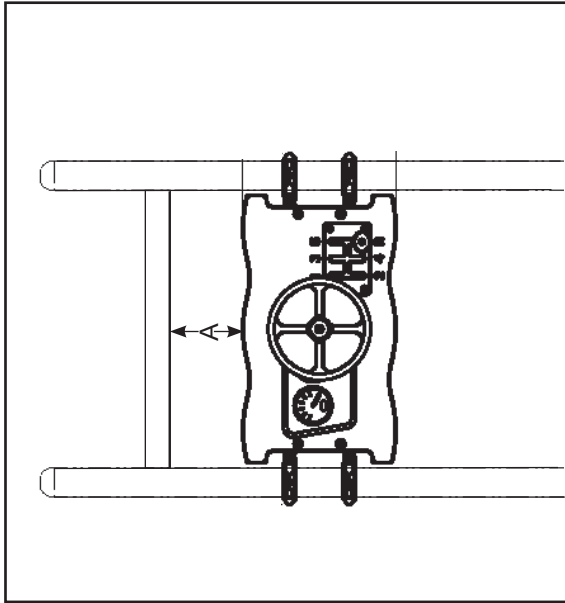
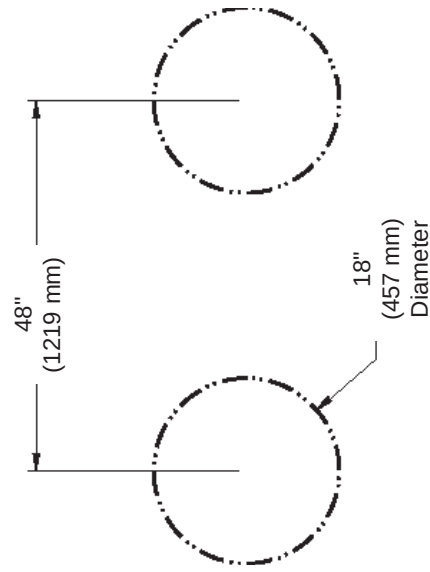
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

Top View



Footing Diagram



Important Note:

- When panel is positioned under a deck, the innermost point on the top edge of the panel (A) must be less than 3 in. (75 mm) from the bottom edge of the deck/panel or more than 9 in. (230 mm) to prevent any entrapment issues.

Elevation Views

Installation Instructions

Deck / Platform Installation

Note:

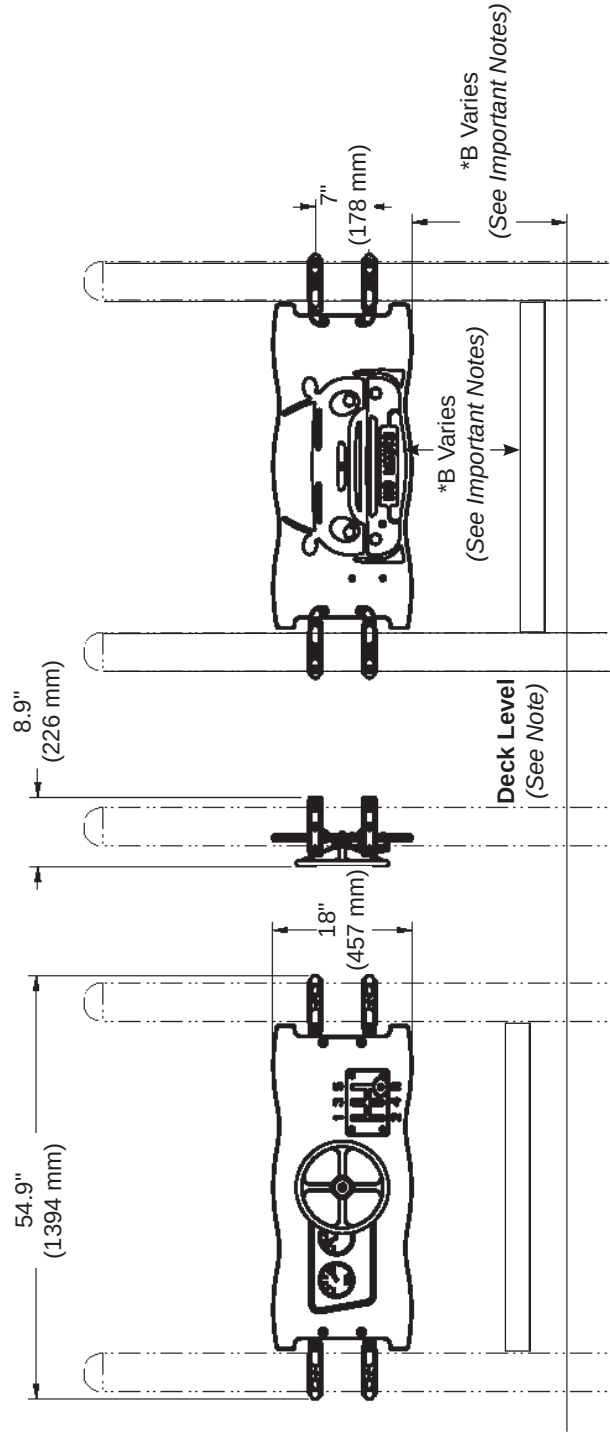
When panel is used as a guardrail, the maximum deck height above surfacing is:

- 30" (762 mm) for 2 to 5 years old.
- 48" (1219 mm) for 5 to 12 years old.

*Important Notes:

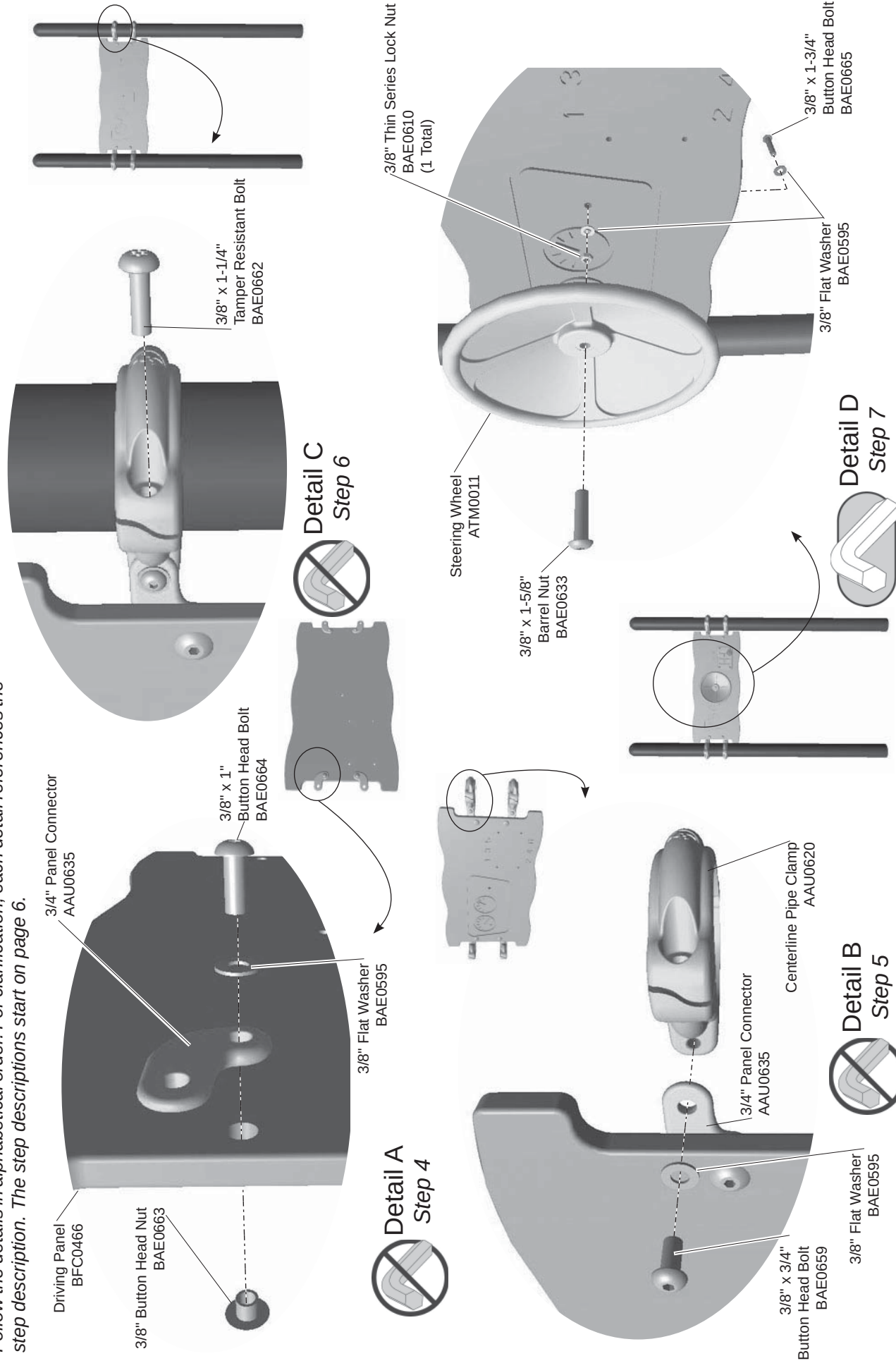
When panel is used as a guardrail, the minimum height requirements must be maintained to prevent unintentional falls from a platform.

- Ages 2 to 5 years old: The top (A) innermost surface of the guardrail should be at least 29" (737 mm) high and the lower (B) innermost edge should be no more than 23" (584 mm) above the platform.
- Ages 5 to 12 years old: The top (A) innermost surface of the guardrail should be at least 38" (965 mm) high and the lower (B) outermost edge should be no more than 28" (711 mm) above the platform.

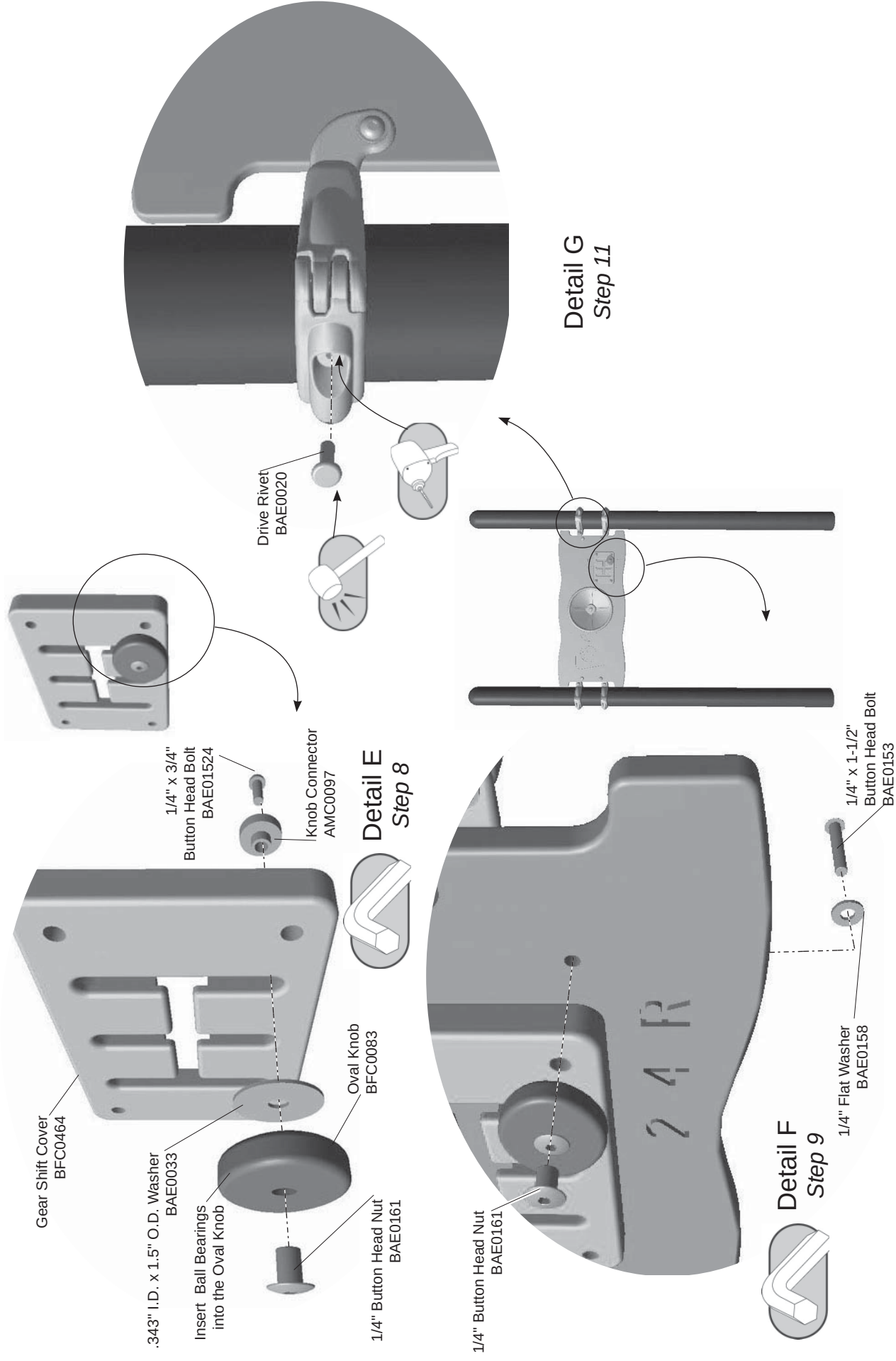


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. .

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Determine location of the panel by referring to the master structure layout drawing. Decide the orientation of the panel - an automobile is routed on one side and a dashboard on the other.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the accessible driving panel, the panel connectors, and the appropriate hardware. There are (4) four connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down on the upper connections and up on the lower connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the clamps and the appropriate hardware. There are (4) four connections. Place the flat side of each clamp against the outside of the panel connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

__Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the clamps and the appropriate hardware. There are (4) four connections. Move the panel into position on the outside of the posts and close the clamps. Attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Remove the clamps before flipping connector and reattach as before on the panel side. Both of the clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Attach the steering wheel to the panel.

__Step 7: Attach the steering wheel to the panel. See **Detail D**. Select the steering wheel and the appropriate hardware. There is (1) one connection. Attach as shown. Fully tighten the connection. The steering wheel should still turn freely.

Attach the gear shift to the panel.

__Step 8: Assemble the gear shift. See **Detail E**. Select the gear shift cover plate, oval knob, knob connector, a bag of ball bearings, and the appropriate hardware. There is (1) one connection. Insert 4 or 5 ball bearings into the cut out side of the oval knob. Cover with the washer to hold the ball bearings in place. Attach as shown. Fully tighten the connection; being careful not to exceed the torque recommendations. Move the knob through the gear shift cover plate to ensure freedom of movement.

__Step 9: Attach the gear shift to the panel. See **Detail F**. Select the gear shift assembly and the appropriate hardware. There are (4) four connections. With the knob side facing out, position the gear shift assembly between the numbers on the "dashboard" side of the panel and align holes. Attach as shown. Fully tighten the connections. The gear shift should still move smoothly on the plate.

Installation Instructions

Final Details.

___**Step 10:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___**Step 11:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

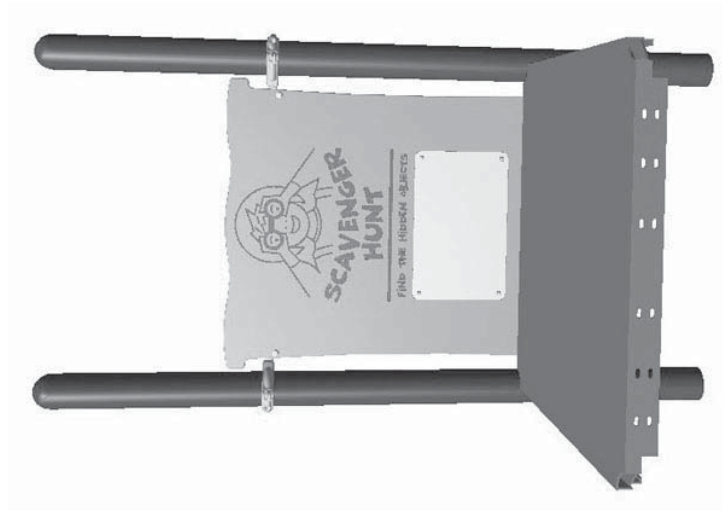
___**Step 12:** For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

PM4406 - ACCESSIBLE DRIVING PANEL

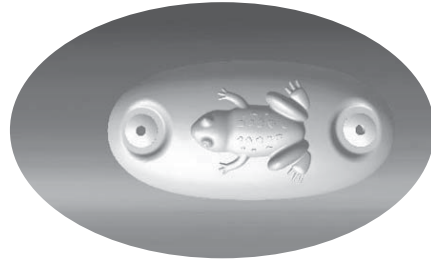
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
AMC0032	MISC - BAG OF 15, 1/4" S.S. BALL BEARINGS	1
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0033	WASHER - .343" I.D. x 1.500" O.D.	1
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	1
BAE0153	BOLT - 1/4" x 1 1/2" BUTTON HEAD	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	5
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	1
BFC0083	SHEET - OVAL KNOB	1
BFC0464	SHEET - .75" x 5.50" x 8.50" COVER	1
BFC0466	SHEET - .75" x 42.00" x 18.00" ACCESS DRIVING PANEL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View



Frog Button
(example of one
of ten buttons)

Installation Instructions Playmakers® Model PM4546 Scavenger Hunt Deck Level

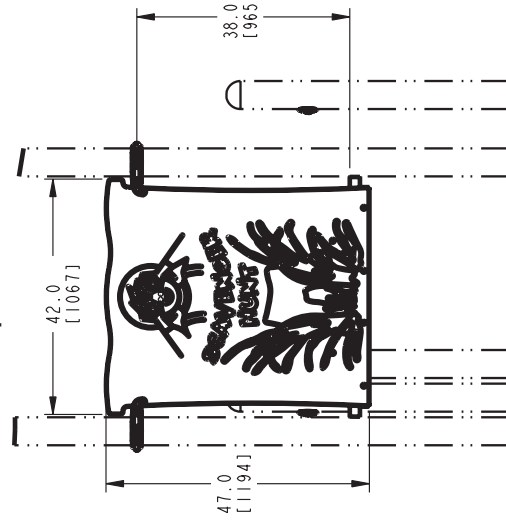
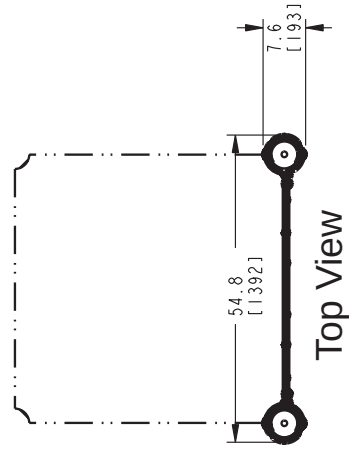
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	*52.8 lbs. (24 kg)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

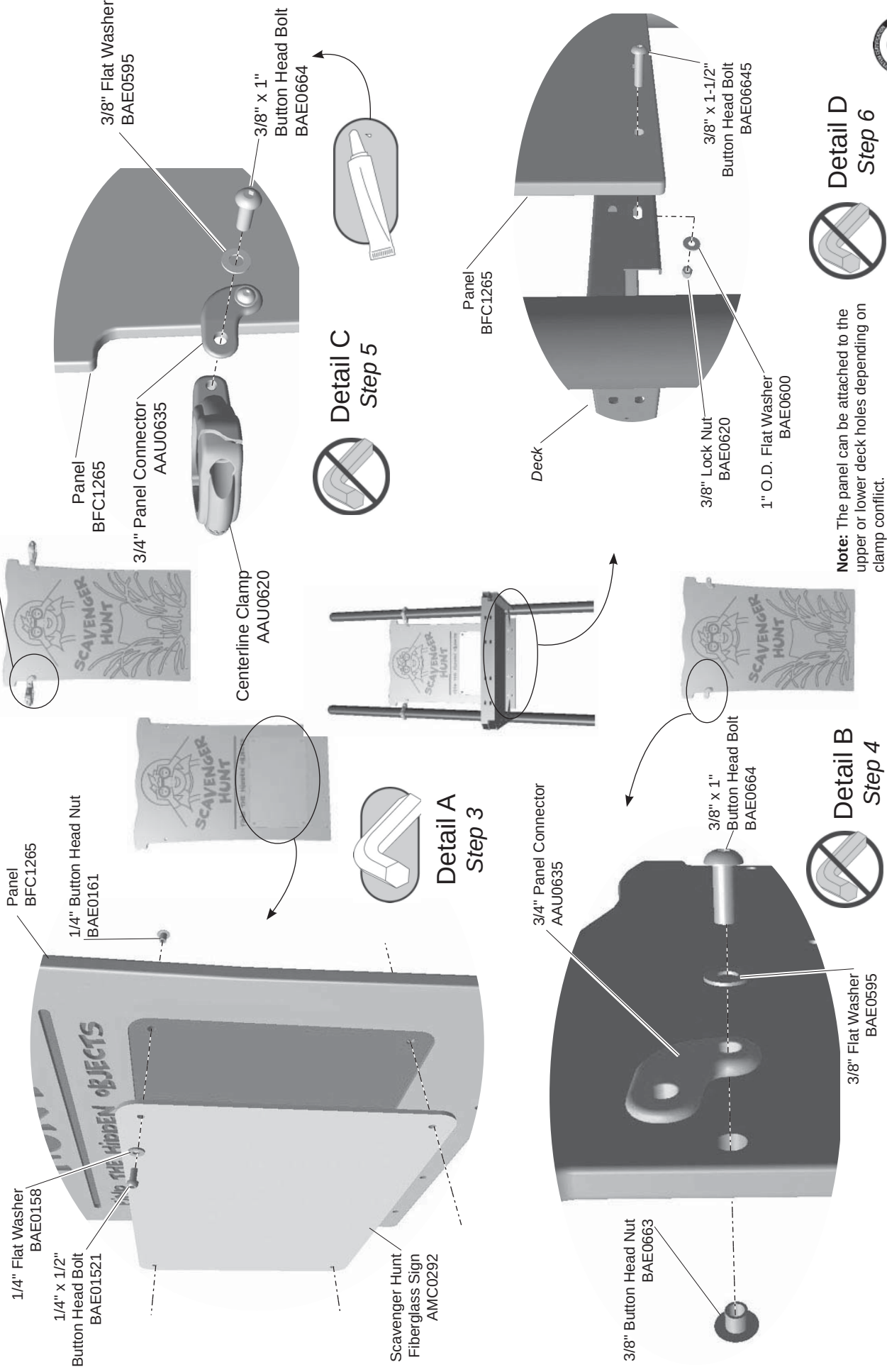
Installation Instructions



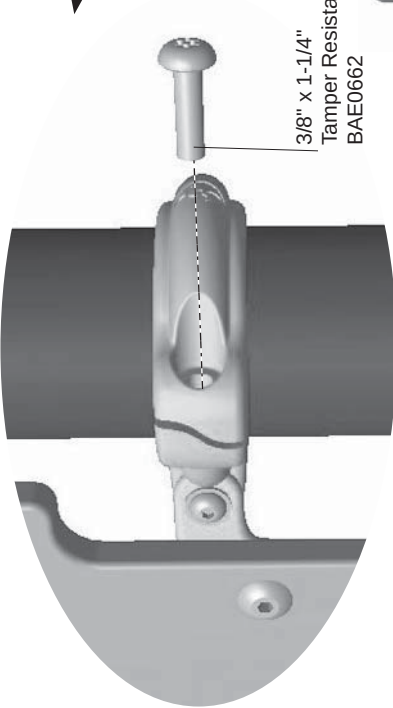
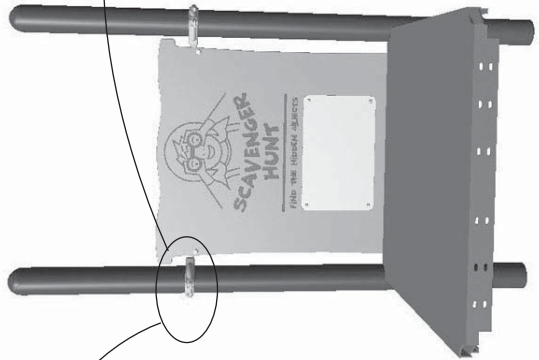
Locate buttons on support posts
as various heights and locations
around the playground.

Installation Instructions

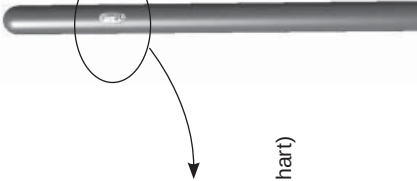
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



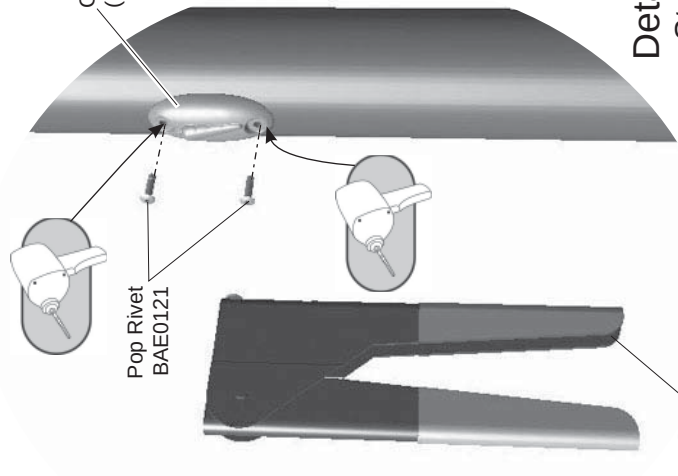
Installation Instructions

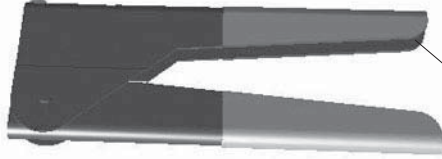



3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662




Detail E
Step 7





Pop Rivet
BAE0121

Casting
(refer to chart)

Rivet Gun

Detail F
Step 9

Shape	Casting Part Number
Butterfly	AAU0641
Flower	AAU0642
Frog	AAU0643
Pickle	AAU0644
Star	AAU0645
Carrot	AAU0646
Apple	AAU0647
Clock	AAU0648
Fish	AAU0649
Smiley Face	AAU0650

Drive Rivet
BAE0020

Detail G
Step 10

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the fiberglass sign to the panel.

__Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Select the scavenger hunt panel, the fiberglass sign, and the appropriate hardware. There are (4) four connections. Position the fiberglass sign in the cutout section of the panel and attach as shown.

Attach the panel connectors to the panel.

__Step 4: Attach the panel connectors to the panel. See **Detail B**. Select the panel connectors, and the appropriate hardware. There are (2) two connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

__Step 5: Attach the clamps to the panel connectors. See **Detail C**. Select the clamps and the appropriate hardware. There are (2) two connections. Place the flat side of each clamp against the outside of the panel connector. Attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the deck.

__Step 6: Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Raise the panel into place against the deck and align the holes in the panel with the lower holes in the deck. Attach as shown.

Note: The panel can be attached to the upper or lower deck holes depending on clamp conflict.

Attach the panel to the support posts.

__Step 7: Attach the panel to support posts. See **Detail E** and **Elevation View**. Select the clamps and the appropriate hardware. There are (2) two connections. Move the panel into position on the outside of the posts and close the clamps. Attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Final Details.

__Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Attach the castings to support posts.

__Step 9: Attach the castings to the support posts. See **Detail F**. Select the appropriate hardware. There are (2) two connections per casting, (20) twenty total connections. Choose various locations around the playground to locate the castings. Using a 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

__Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZPM4546 - SCAVENGER HUNT DECK LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AMC0292	SIGN - SCAVENGER HUNT FIBERGLASS	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56 ALUM POP (.251" - .375" GRIP RANGE)	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1265	SHEET - 42.00" x 47.00" SCAVENGER HUNT	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

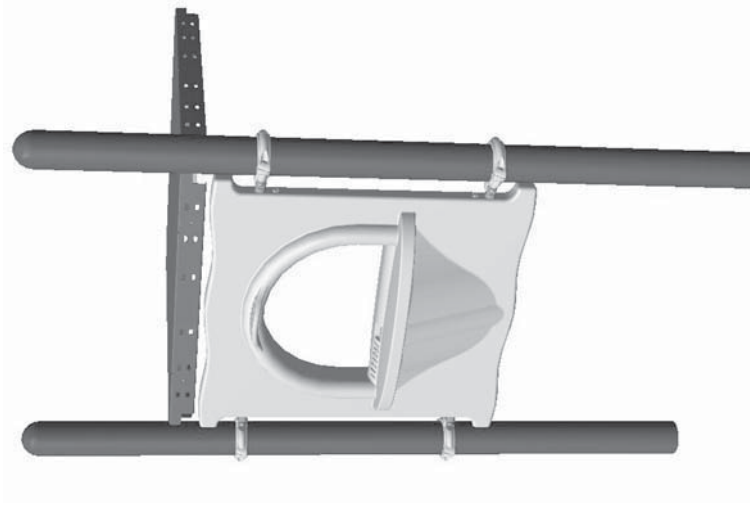


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Assembly View

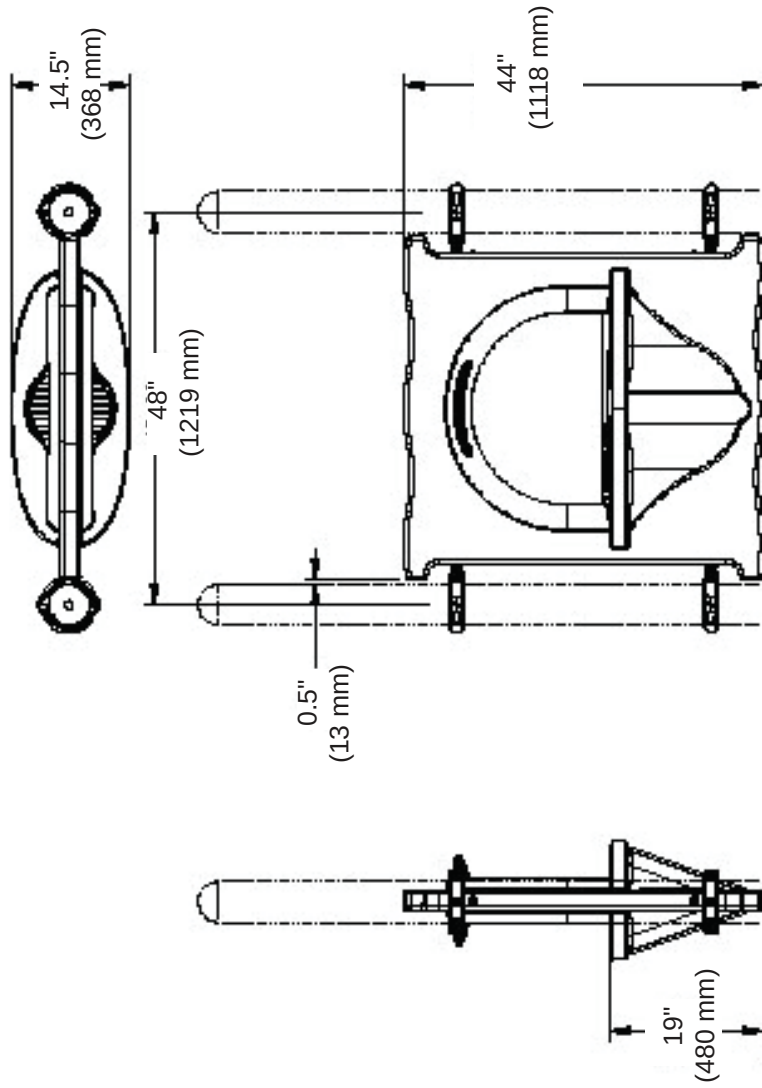
Installation Instructions Playmakers® Model PM4646 Storefront Panel

Installation Preparation

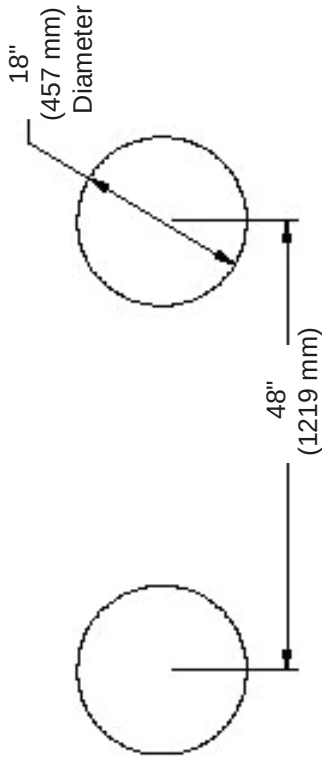
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 44.8 lbs. (20.2 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Drill
	Hammer	Critical Fall Height

Top View



Footing Diagram

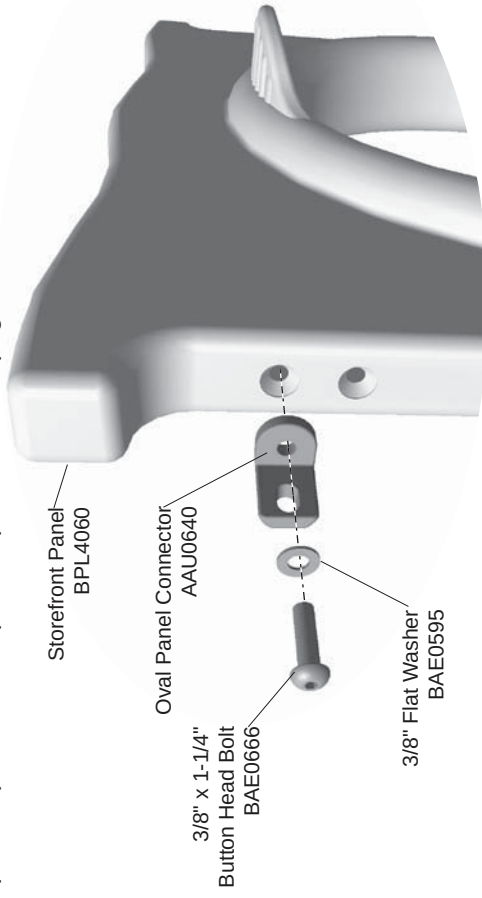


Elevation Views

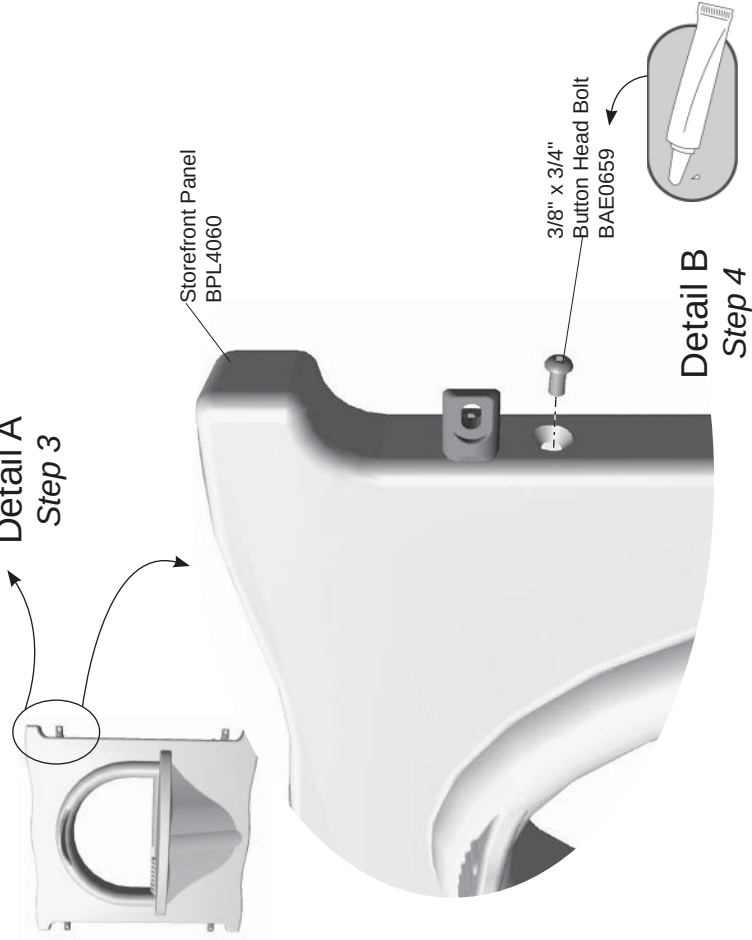


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3

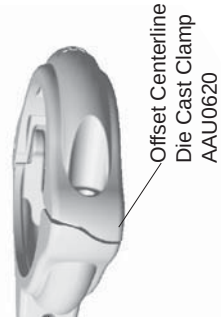


Detail B
Step 4



Storefront Panel
BPL4060

Oval Panel Connector
AAU0640



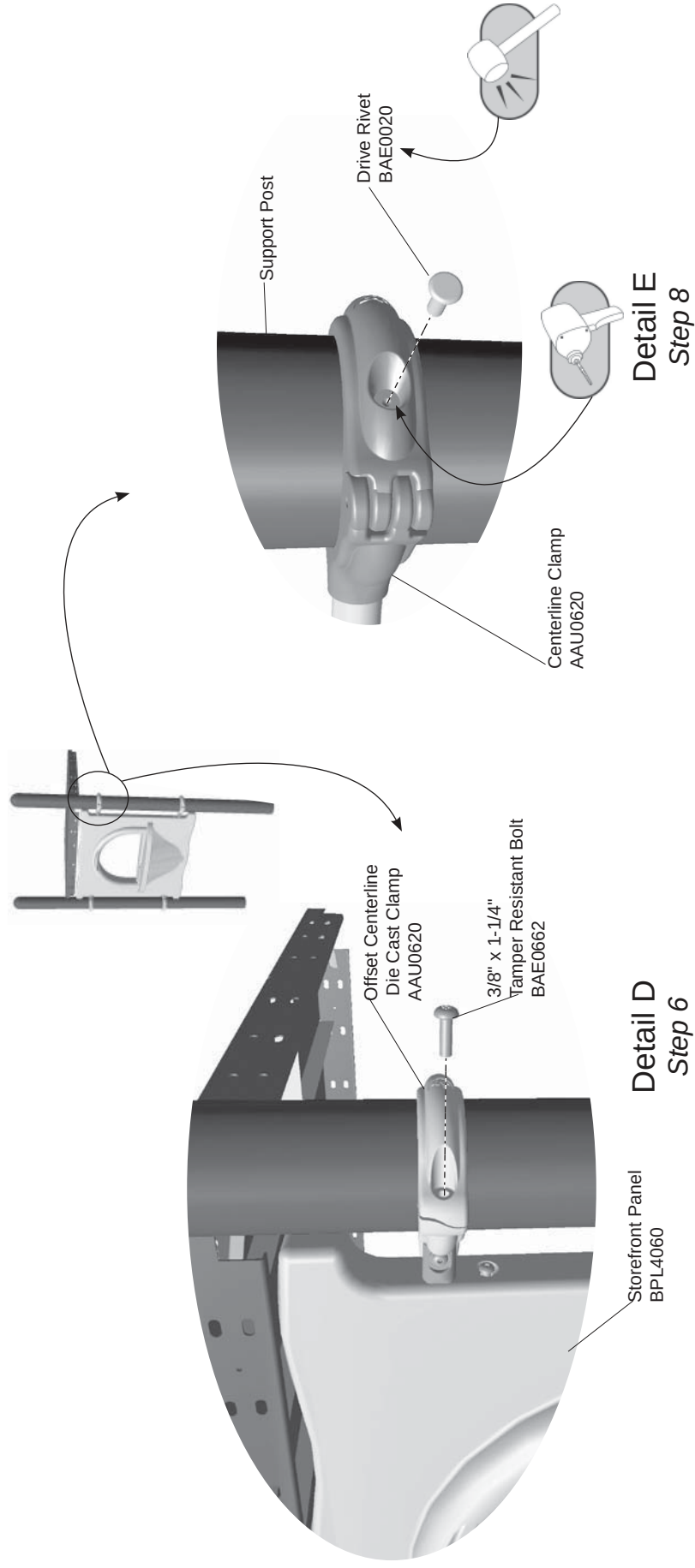
3/8" Flat Washer
BAE0595

3/8" x 1"
Button Head Bolt
BAE0664

Detail C
Step 5



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

__Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

__Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

__Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

__Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

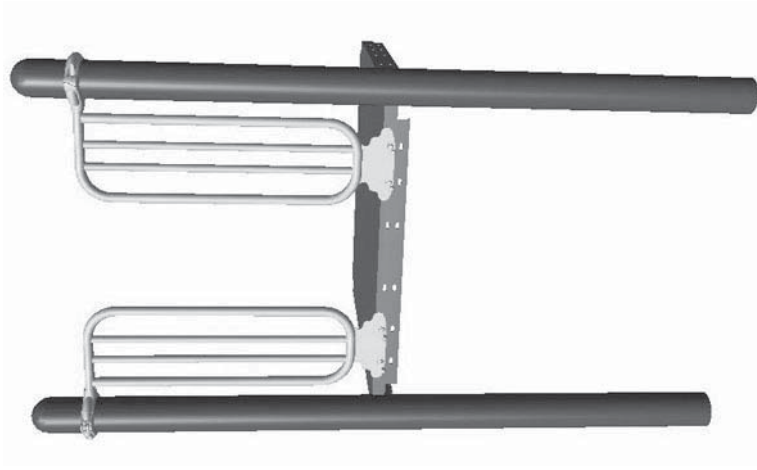
Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1

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Model PM4646
PA 768



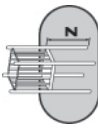
Assembly View

Installation Instructions Playmakers® Model PM4288 Compliance Access Gate

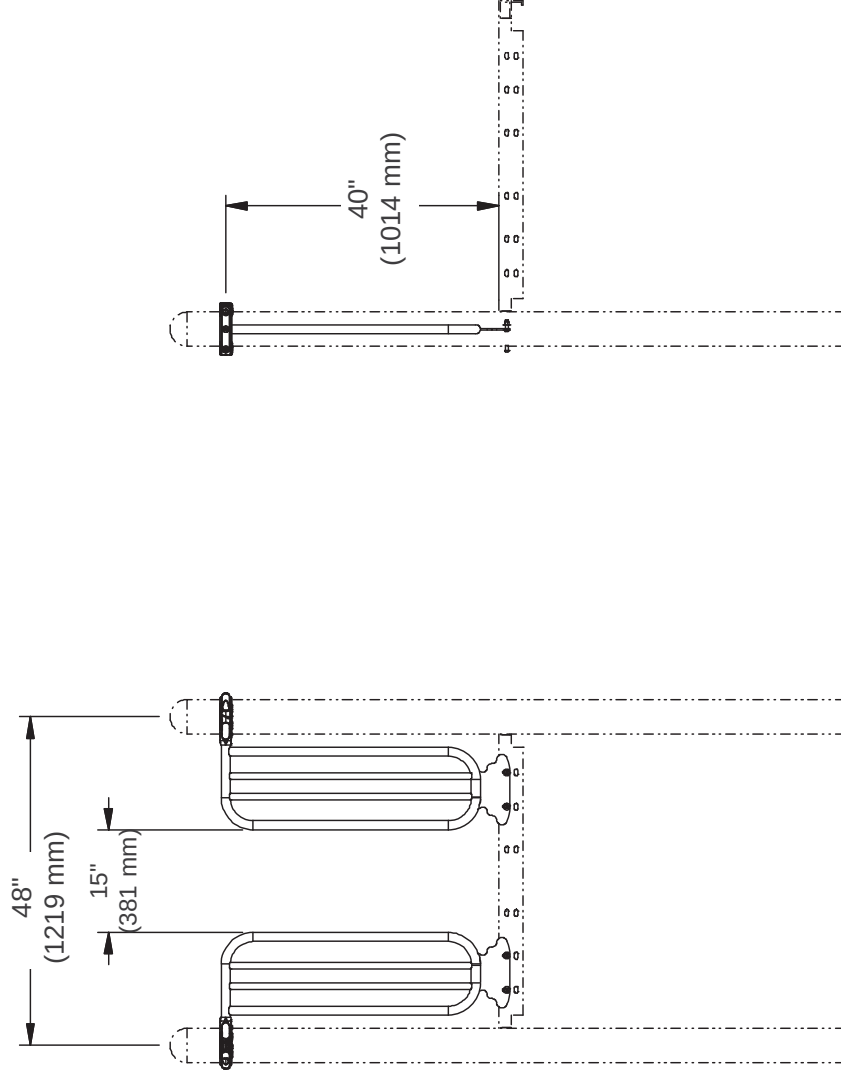
Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 man-hours
Weight: 34 lbs. (15,4 kg)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Critical Fall Height
	Drill		Hammer

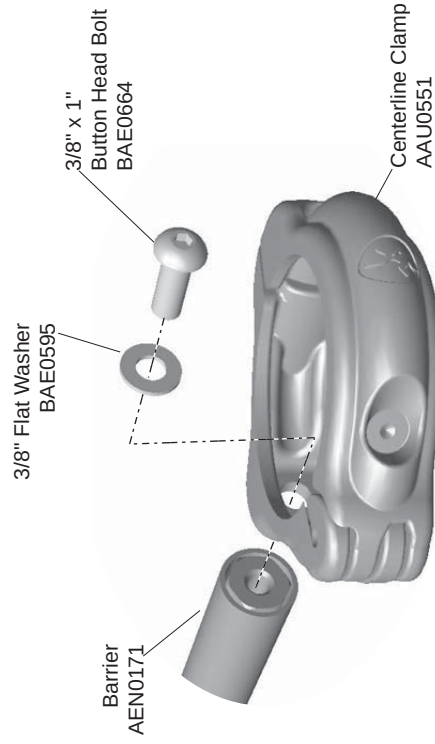
Installation Instructions



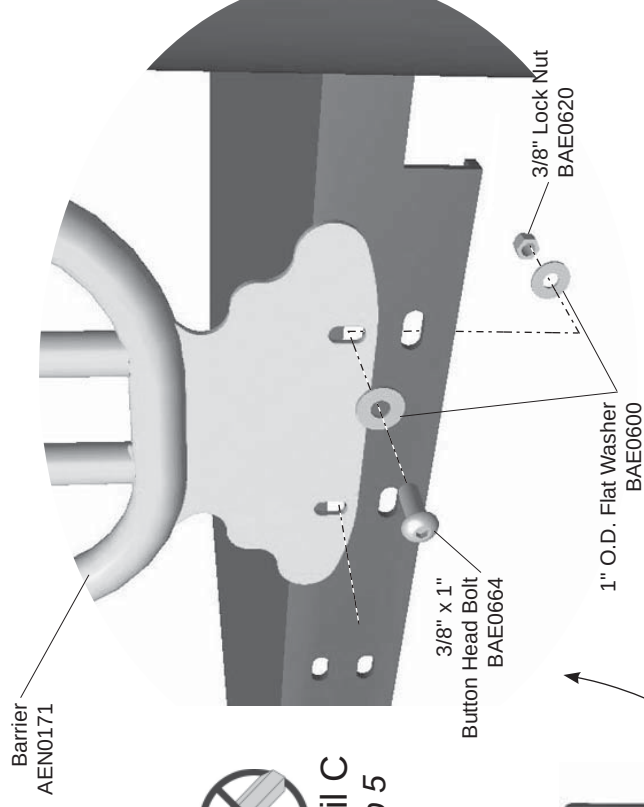
Elevation View

Installation Instructions

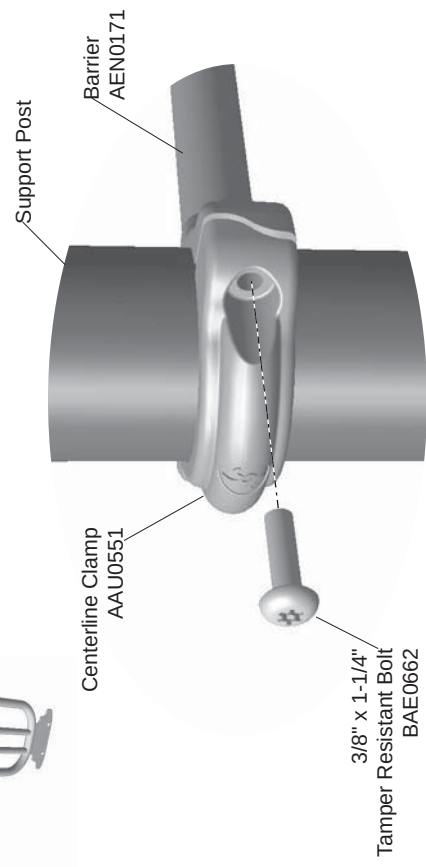
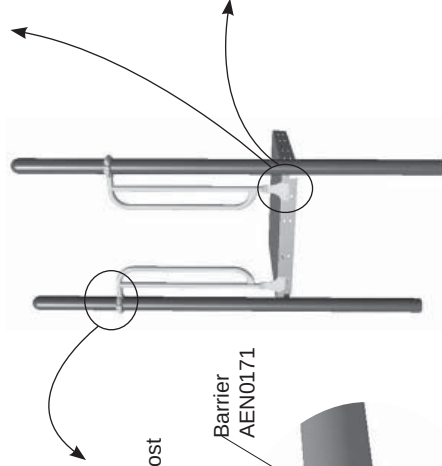
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



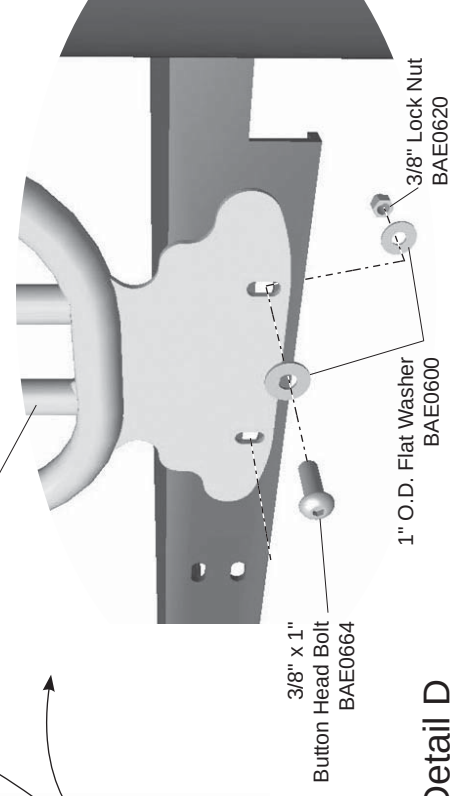
Detail A
Step 3



Detail C
Step 5

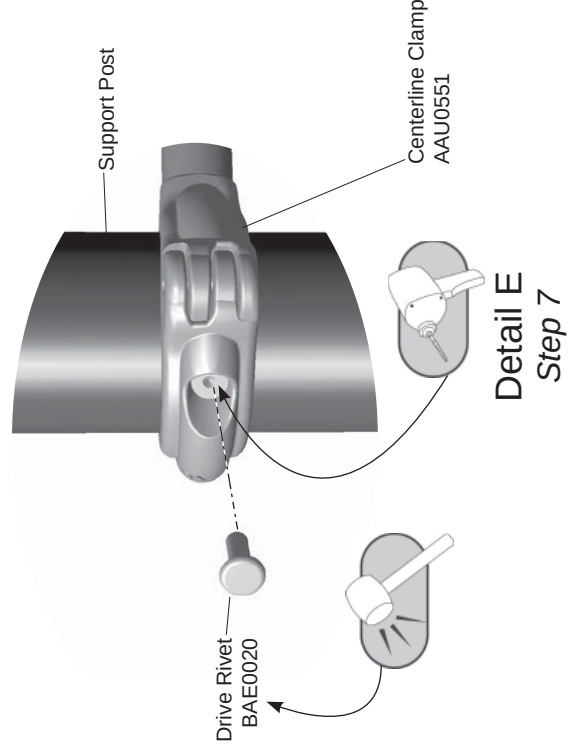


Detail B
Step 4



Detail D
Step 5

Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

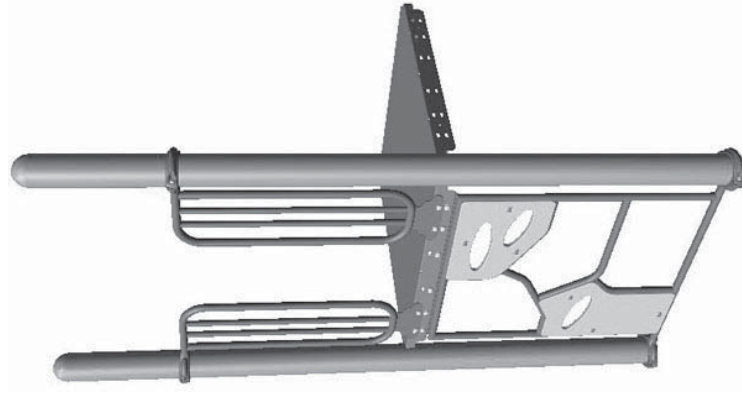
__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6

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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM6996	48" (1219 mm)	80.1 lbs. (36,4 kg)
ZZPM6997	60" (1524 mm)	85.3 lbs. (38,8 kg)
ZZPM6998	72" (1829 mm)	94.2 lbs. (42,8 kg)

Installation Instructions

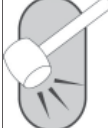
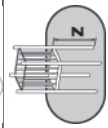
Playmakers® Models PM6996-98

GEO Vertical Climber

48 in. (1219 mm) to 72 in. (1829 mm) Deck Height

Installation Preparation

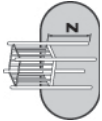
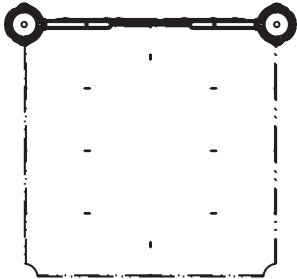
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

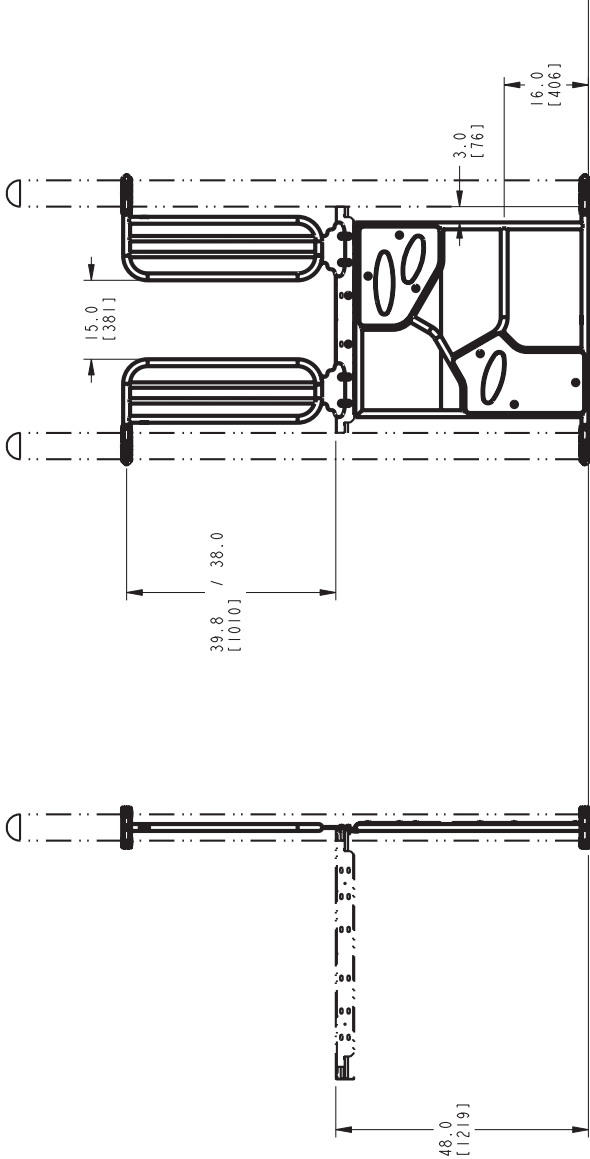
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



EN: 965 mm



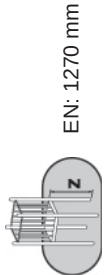
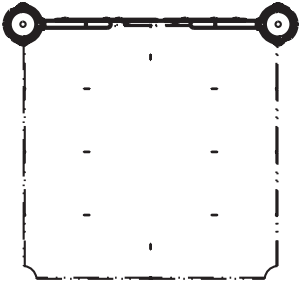
Elevation Views
PM6996



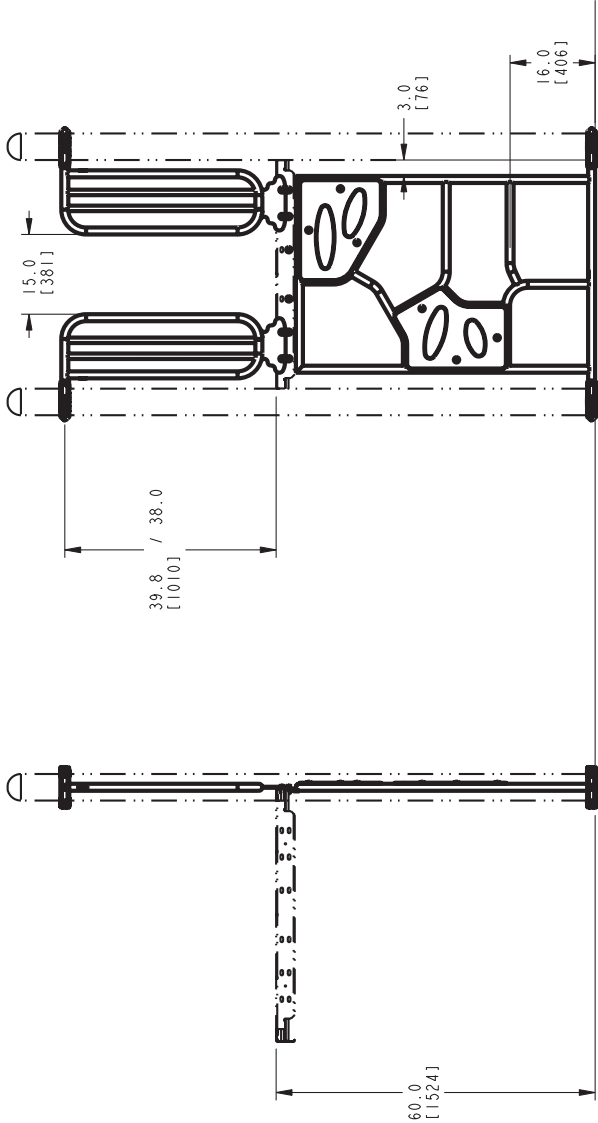
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



EN: 1270 mm



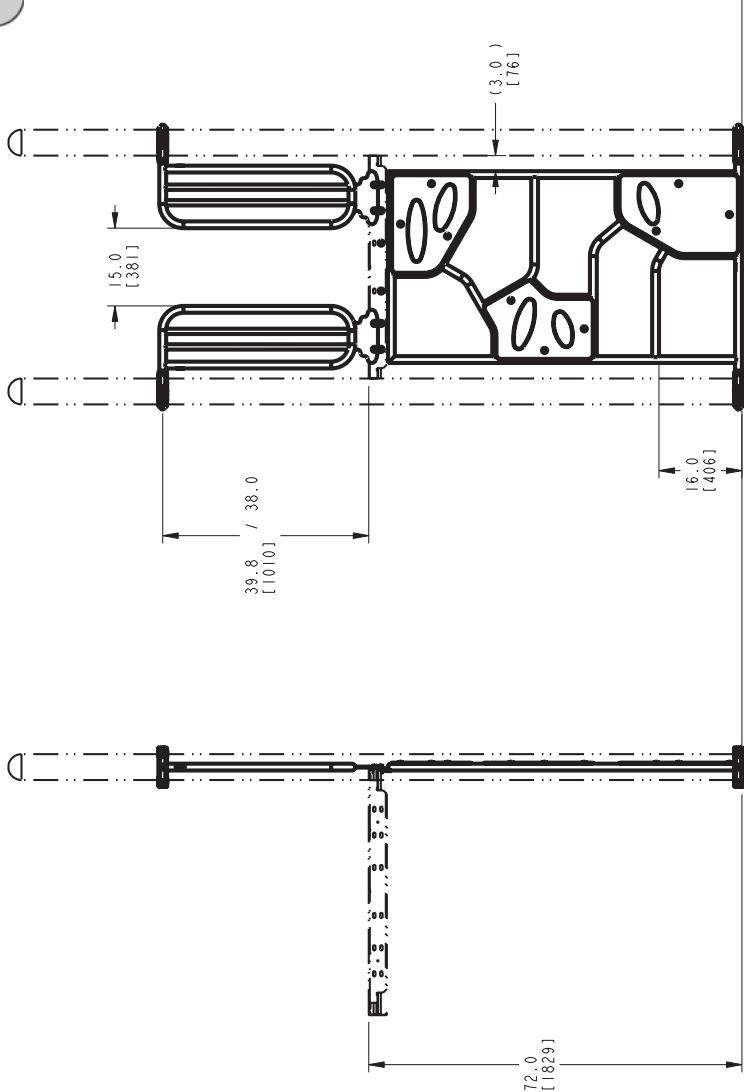
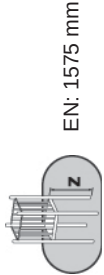
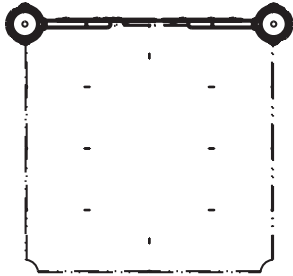
Elevation Views
PM6997



Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View

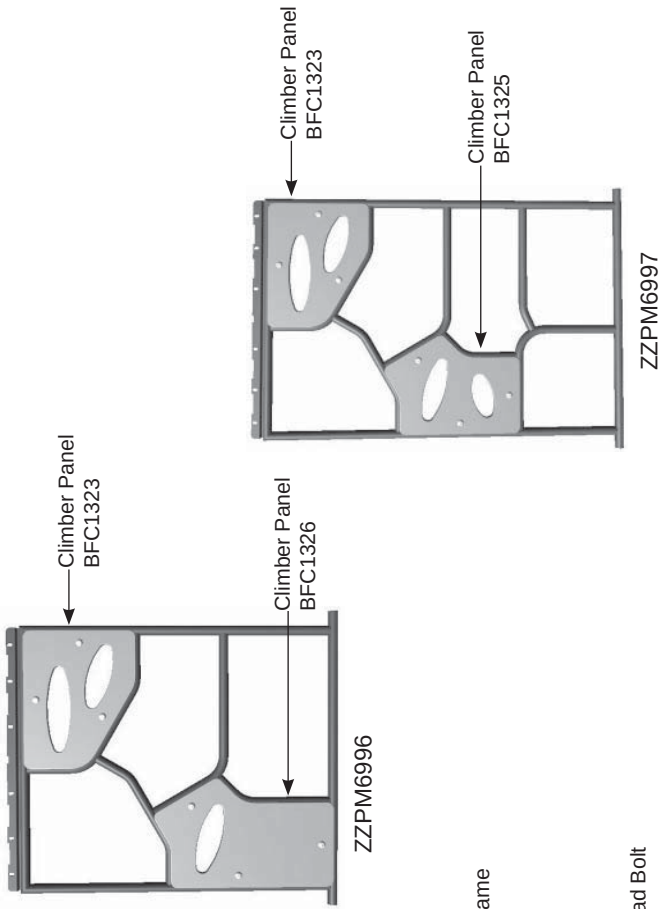


Elevation Views
PM6998

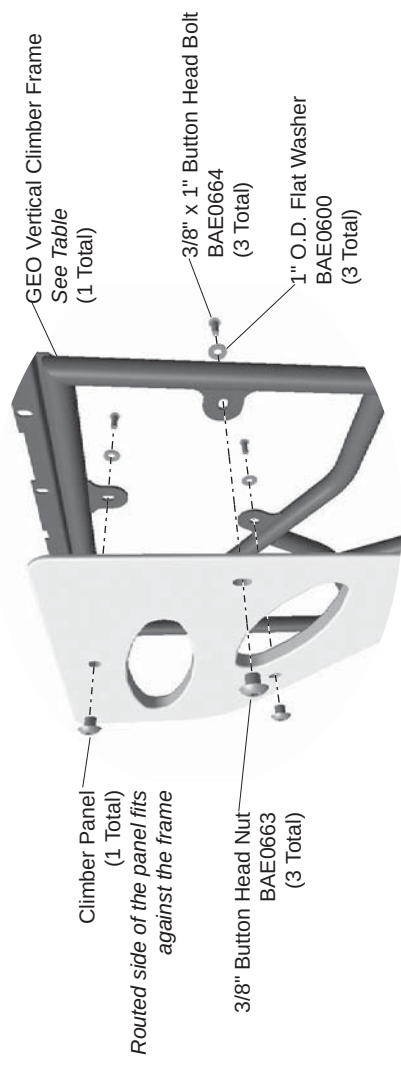


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



Climber frame orientation

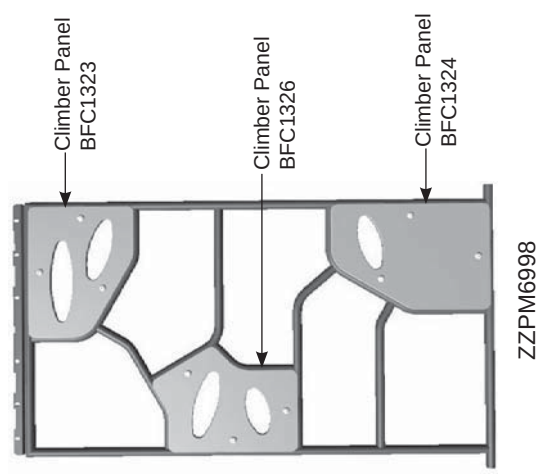


Detail A

Step 3

Assemble the climber - Attach the panels

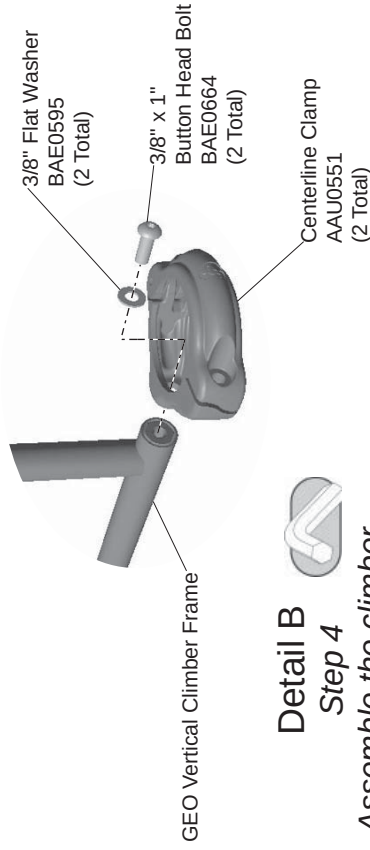
Note: there are (3) three connections per panel. See the references at right for placement and part number of the panels for each model.



Model	Vertical Climber Part Number	Deck Height
ZZPM6996	ACL0264	48" (1219 mm)
ZZPM6997	ACL0263	60" (1524 mm)
ZZPM6998	ACL0262	72" (1829 mm)

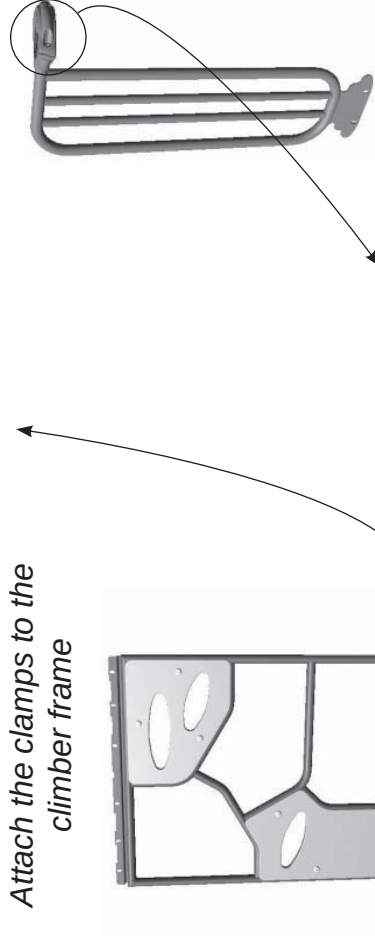


Installation Instructions



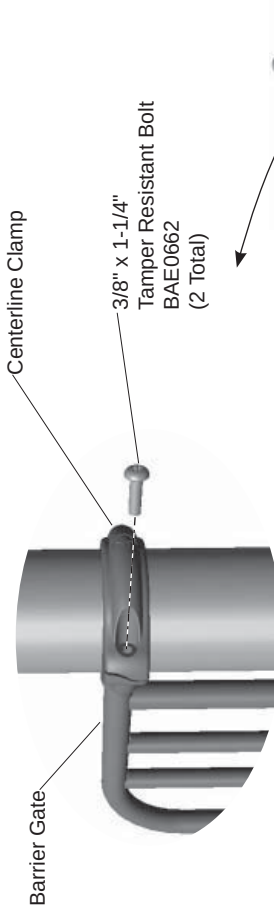
Detail B
Step 4

Assemble the climber -
Attach the clamps to the
climber frame



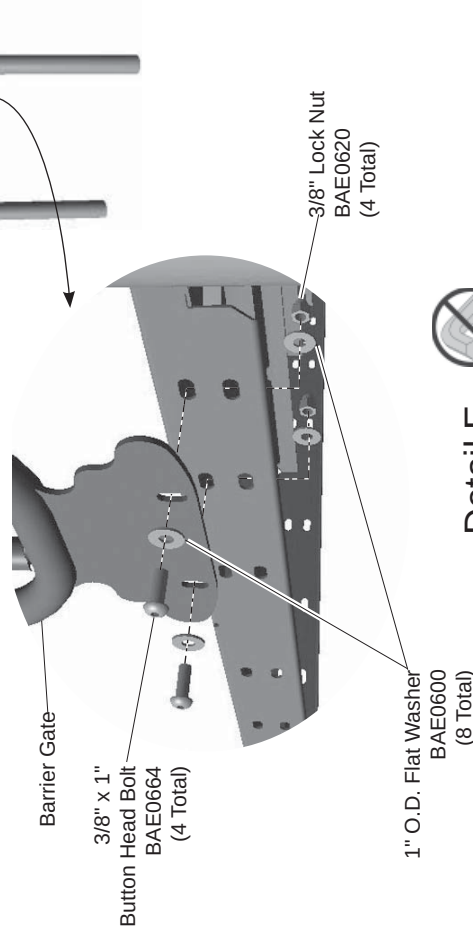
Detail C
Step 5

Attach the clamps to the
barrier gates



Detail D
Step 6

Attach the gates to the
support posts



Detail E
Step 7

Attach the gates to the deck

Note: Gates are shown being attached to the upper holes in the deck. The gates can also be attached to the lower holes with the bolt then going through the climber bracket as shown in **Detail F**. If attaching through the lower holes, substitute the 1" bolts (BAE0664) with 1-1/4" bolts (BAE0666) which are also supplied with the climber.

Installation Instructions

See the **Note** with

Detail E if attaching the gates to the lower holes.

3/8" x 1"
Button Head Bolt
BAE0664
(6 Total)

1" O.D. Flat Washer
BAE0600
(12 Total)

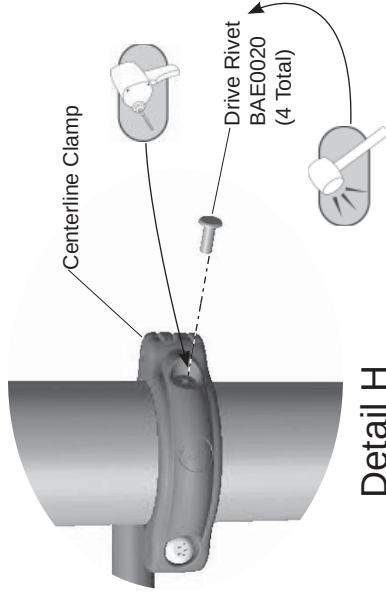
3/8" Lock Nut
BAE0620
(6 Total)

GEO Vertical Climber Frame

Panel is shown transparent to allow for easy viewing of the connections.



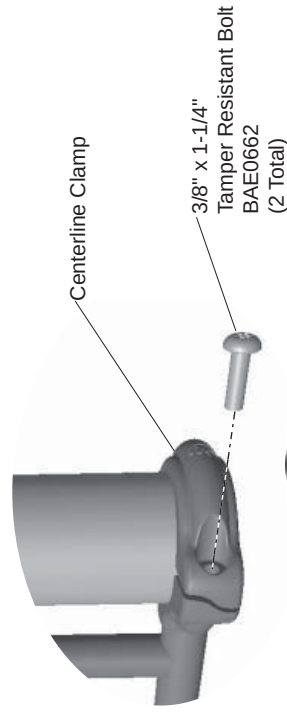
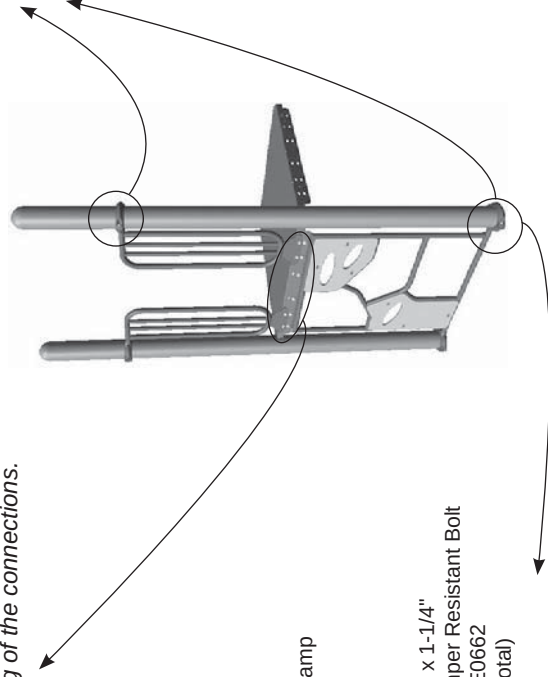
Detail F
Step 8
Attach the climber to the deck



Detail H
Step 11
Secure the clamps to the support posts

Drive Rivet
BAE0020
(4 Total)

Centerline Clamp



Detail G
Step 9
Attach the climber to the support posts

3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662
(2 Total)

Centerline Clamp

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the climber.

Step 3: Attach the panels to the climber. See **Detail A** and appropriate model reference. Attach the panels to the climber as shown. Fully tighten the connections.

Step 4: Attach the clamps to the climber. See **Detail B**. Attach the clamps to the climber as shown. Ensure the hinges on the clamps are facing the same direction.

Attach the clamps to the barrier gates.

Step 5: See **Detail C**. Attach the clamps to the barrier gates as shown. The hinges on the clamps should face the same direction.

Attach the barrier gates to the posts.

Step 6: See **Detail D**. Attach the gates to the posts as shown.

Attach the gates to the deck.

Step 7: See **Detail E**. Attach the gates to the upper holes in deck as shown. The gates can be attached to the lower holes in the deck if needed. When attaching to the lower holes, the bolt will need be inserted through the climber bracket as shown in **Detail F**.

Attach the climber to the deck.

Step 8: See **Detail F**. Place the climber between the posts and beneath the deck, with the clamps around the support posts, and attach to the deck as shown.

Attach the climber to the support posts.

Step 9: See **Detail G**. Attach the clamps to the posts as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 11: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly installed.

Bill of Materials

PM6996 - GEO VERTICAL CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0264	CLIMBER - GEO VERTICAL (48" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1326	SHEET - 15.27" x 25.10" INFILL	1

PM6997 - GEO VERTICAL CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0263	CLIMBER - GEO VERTICAL (60" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1325	SHEET - 15.27" x 21.10" INFILL	1

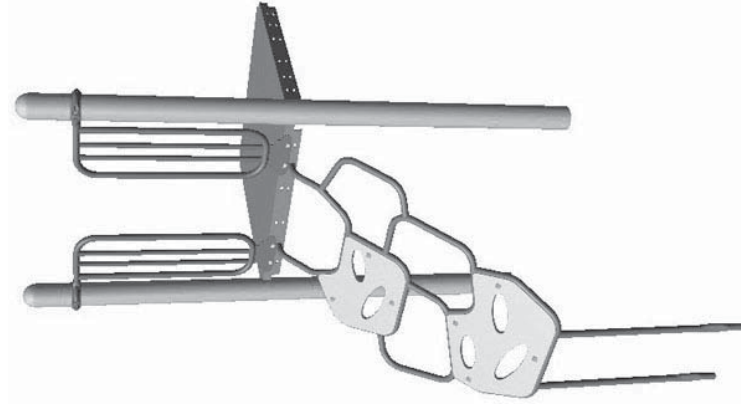
PM6998 - GEO VERTICAL CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0262	CLIMBER - GEO VERTICAL (72" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	29
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	23
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1324	SHEET - 15.45" x 23.08" INFILL	1
BFC1325	SHEET - 15.27" x 21.10" INFILL	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7006	48" (1219 mm)	72.7 lbs. (33 kg)
ZZPM7006S	48" (1219 mm)	75.4 lbs. (34,3 kg)
ZZPM7007	60" (1524 mm)	88.6 lbs. (40,3 kg)
ZZPM7007S	60" (1524 mm)	91,6 lbs. (41,6 kg)
ZZPM7008	72" (1829 mm)	97 lbs. (44,1 kg)
ZZPM7008S	72" (1829 mm)	100 lbs. (45,4 kg)

Installation Instructions

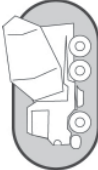
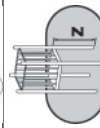
Playmakers® Models PM7006-08(S) GEO Arch Climber

48 in. (1219 mm) to 72 in. (1829 mm) Deck Height
In-Ground and Surface Mount

Installation Preparation

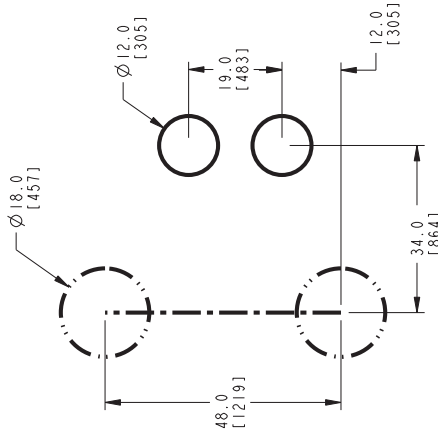
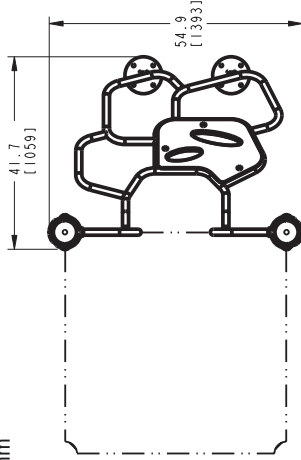
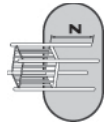
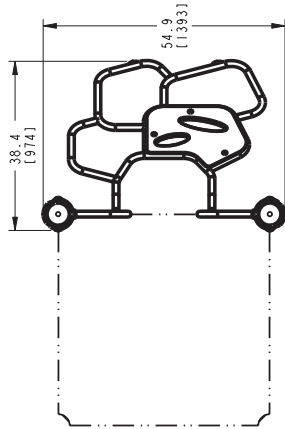
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours (in-ground)
 1 man-hour (surface mount)
 Weight: (refer to table below)
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

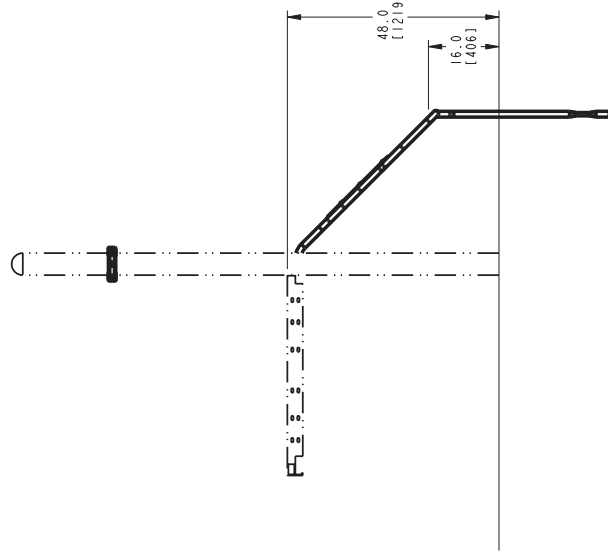
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

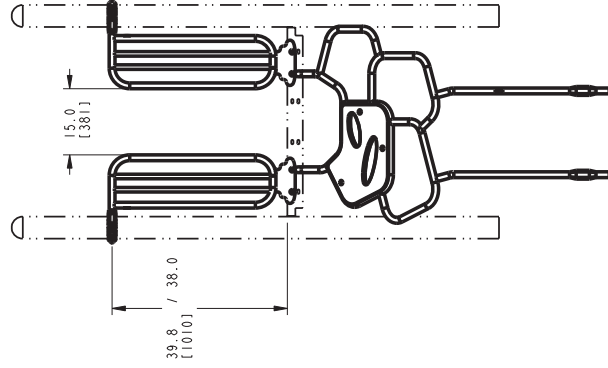
Top View



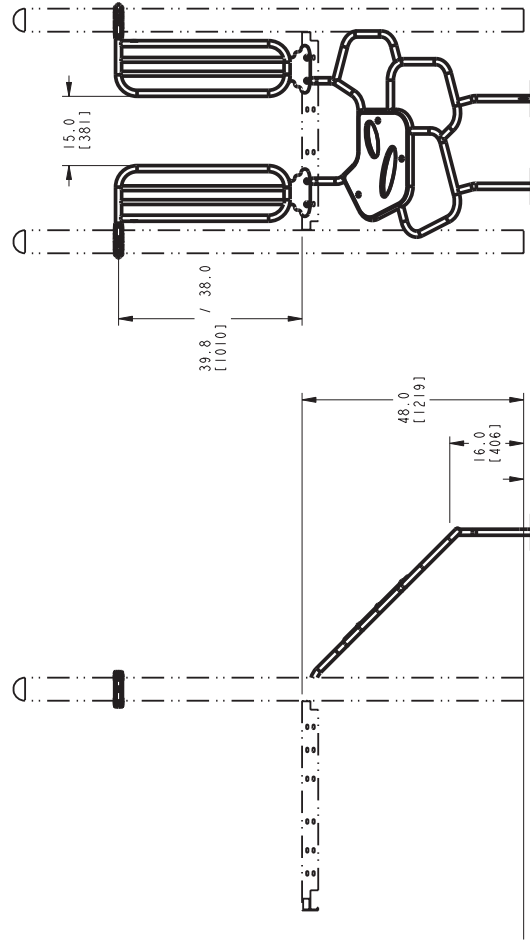
Footings Diagram
Both Models



Elevation Views
PM7006

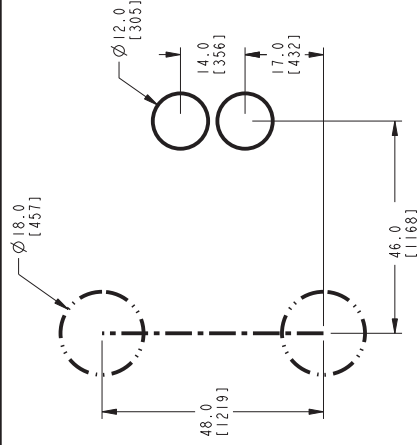


Elevation Views
PM7006S

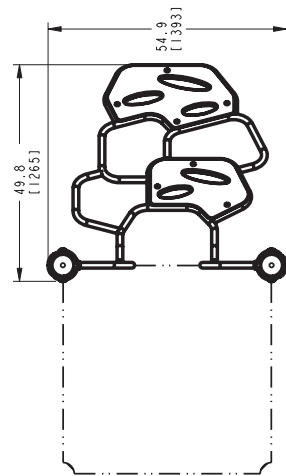


Installation Instructions

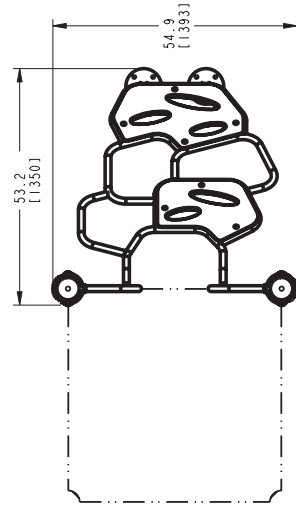
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



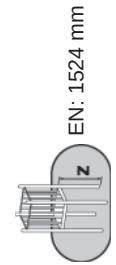
Top View



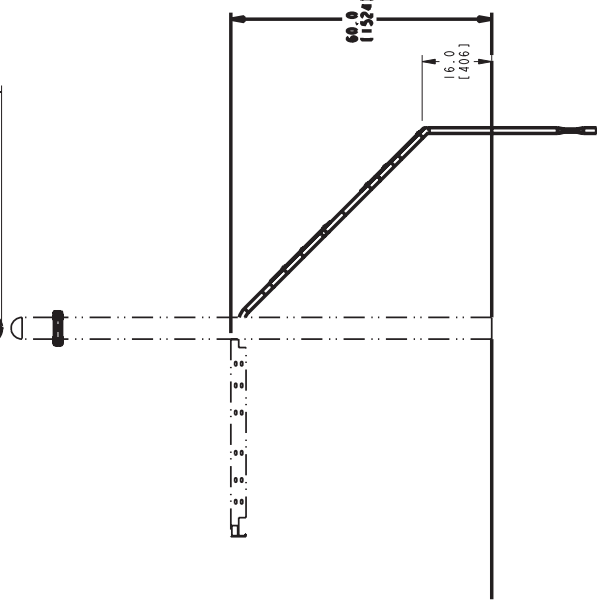
Footing Diagram
Both Models



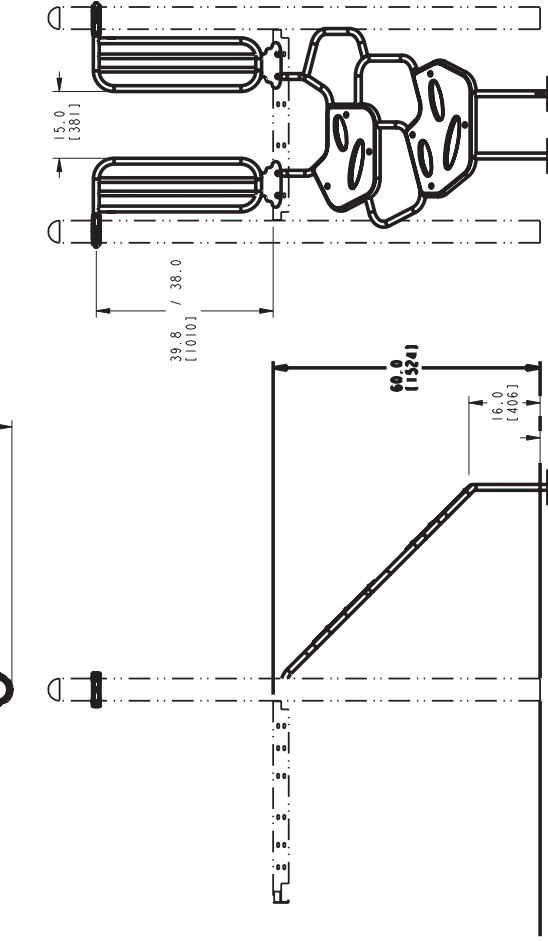
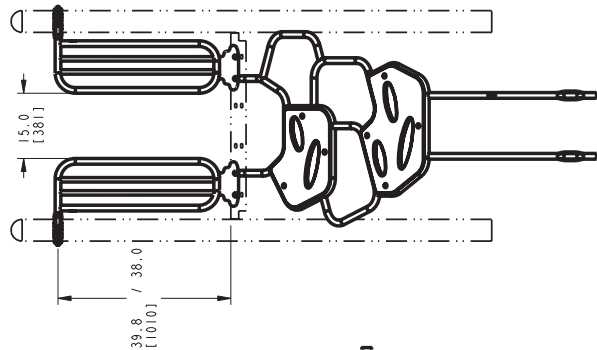
Top View



EN: 1524 mm



Elevation Views
PM7007

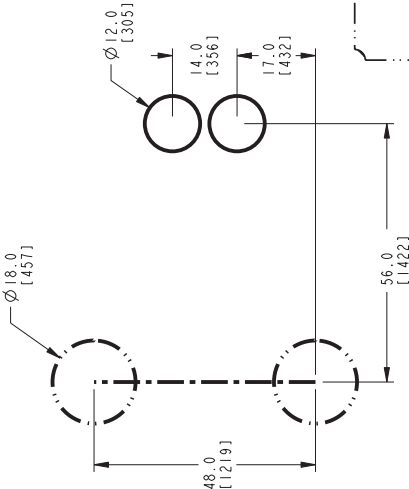


Elevation Views
PM7007S



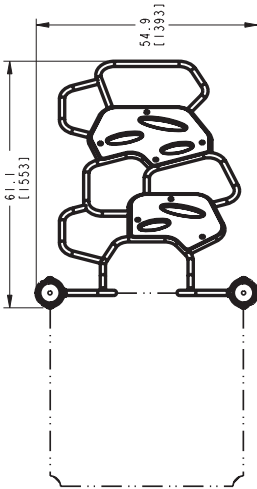
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

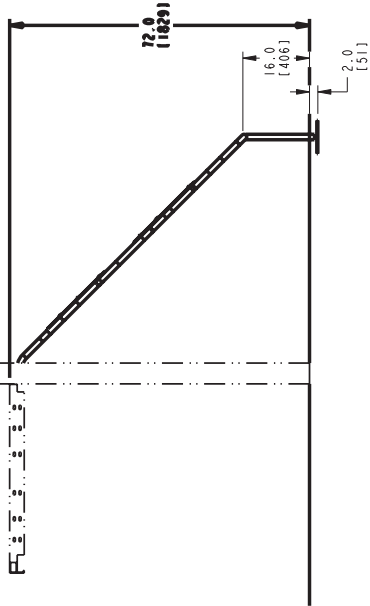
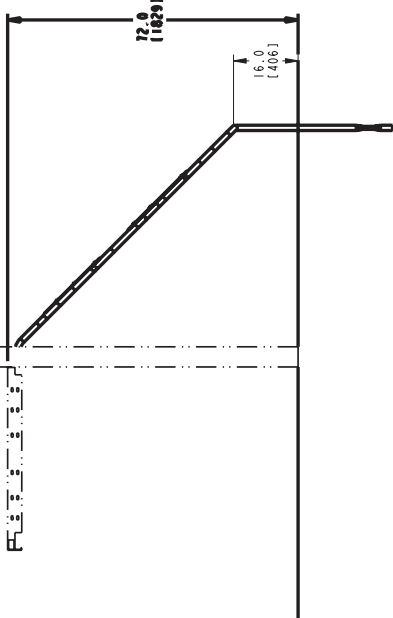
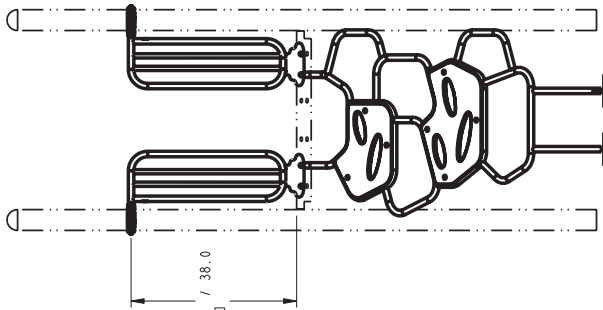
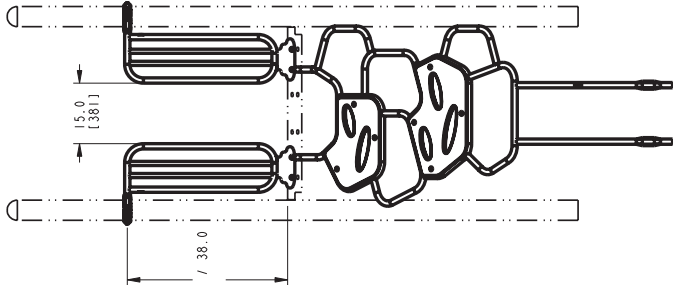
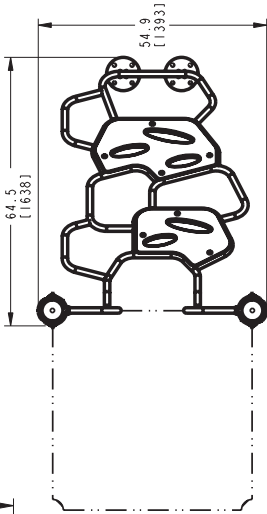


Footing Diagram
Both Models

Top View



Top View



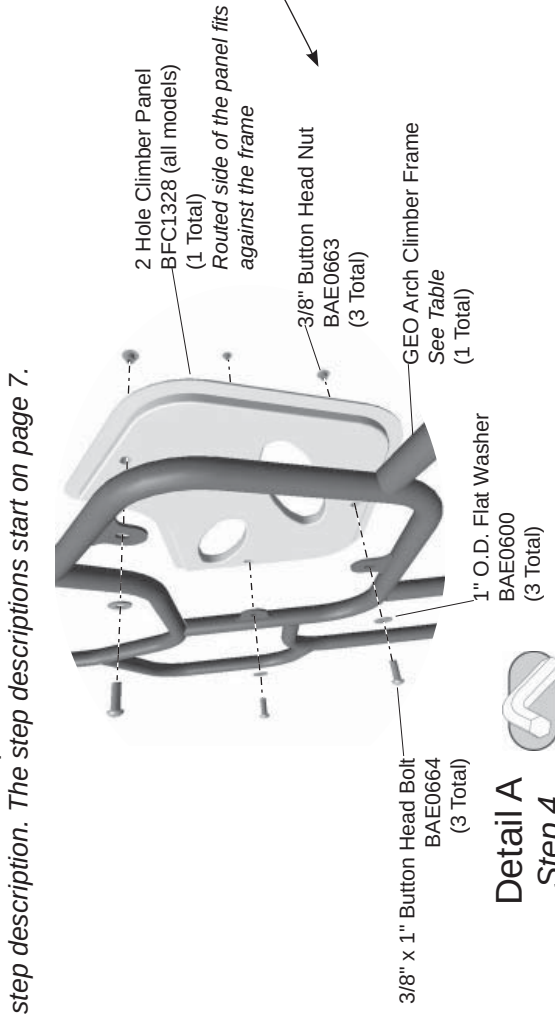
Elevation Views
PM7008

Elevation Views
PM7008S



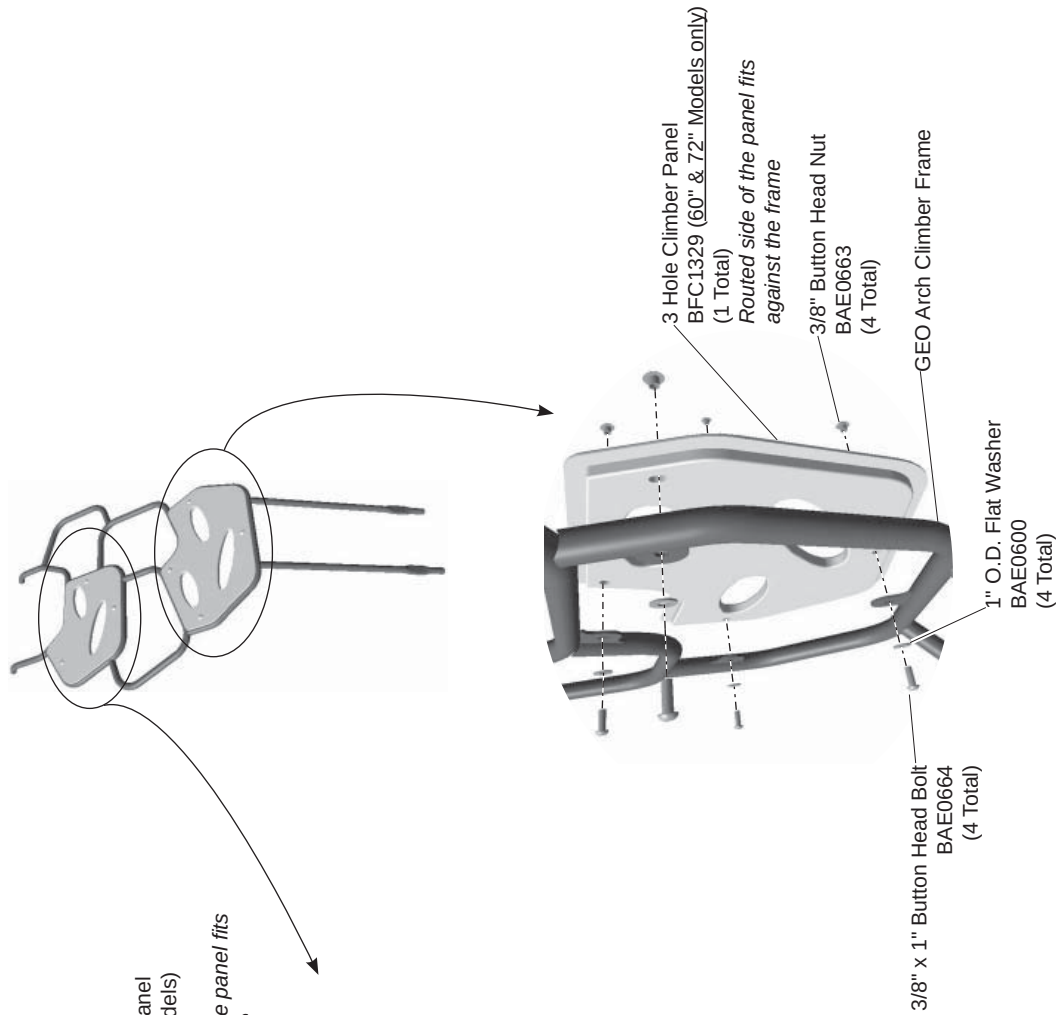
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4

Assemble the climber -
Attach the 2-hole panel



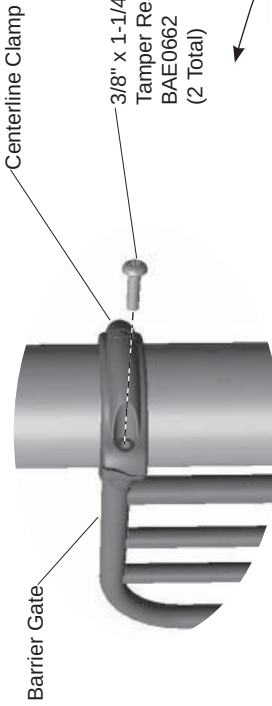
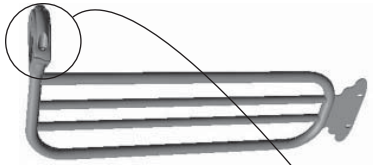
Detail B
Step 5

Assemble the climber -
Attach the 3-hole panel

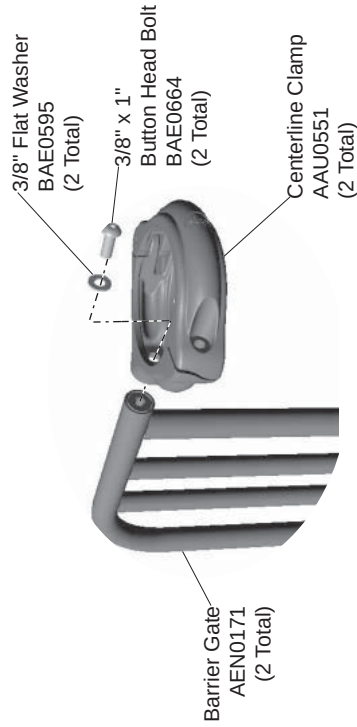
Model	Arch Climber Part Number	Deck Height
ZZPM7006	ACL0272	48" (1219 mm)
ZZPM7006S	ACL0273	48" (1219 mm)
ZZPM7007	ACL0270	60" (1524 mm)
ZZPM7007S	ACL0271	60" (1524 mm)
ZZPM7008	ACL0268	72" (1829 mm)
ZZPM7008S	ACL0269	72" (1829 mm)



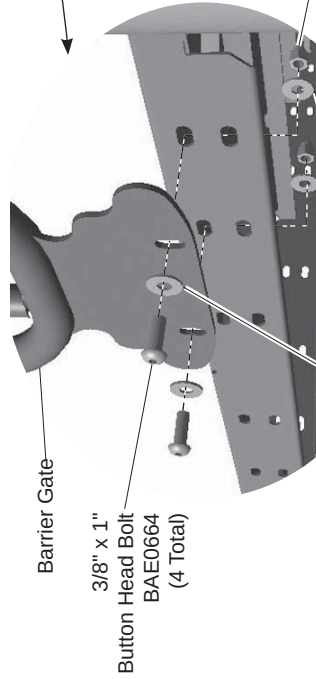
Installation Instructions



Detail D
Step 7
Attach the gates to the support posts



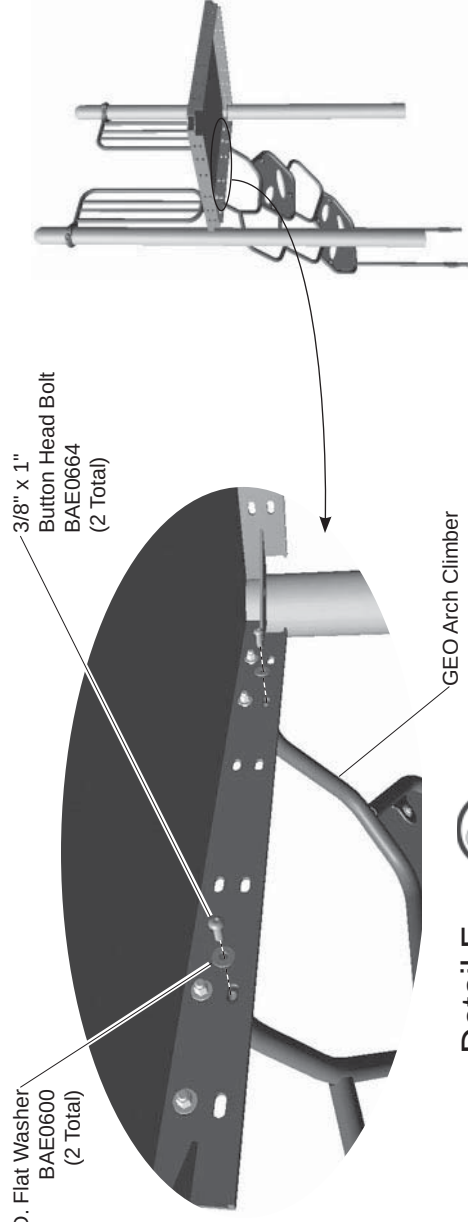
Detail C
Step 6
Attach the clamps to the barrier gates



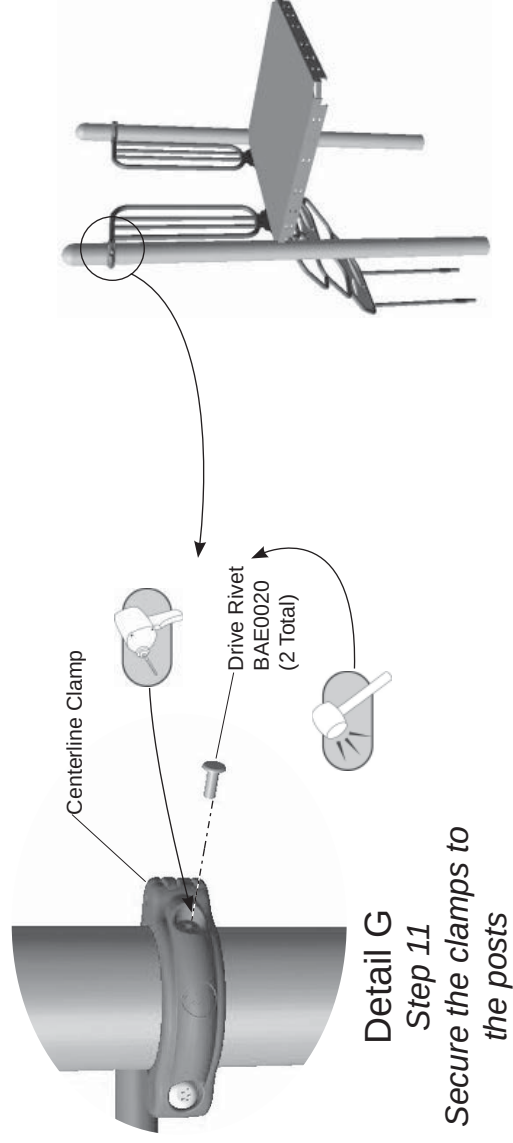
Detail E
Step 8
Attach the gates to the deck

Note: Gates are shown being attached to the upper holes in the deck. If the gates need to be attached to the lower holes, position the gate tabs between the climber and deck and attach as shown in **Detail F**.

Installation Instructions



Detail F
Step 9
*Attach the climber
to the deck*



Detail G
Step 11
*Secure the clamps to
the posts*

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Footing Details** shown in the of this instruction booklet. Use the **Component Footing Details** for the in-ground model.

Assemble the climber.

Step 4: Attach the 2-hole panel to the climber. See **Detail A** and the appropriate **Elevation View**. Attach the panel to the climber as shown.

Step 5: Attach the 3-hole panel to the 60 in. (1524 mm) and 72 in. (1829 mm) climbers only. See **Detail B** and the appropriate **Elevation View**. Attach the panel to the climber as shown.

Attach the clamps to the barrier gates.

Step 6: See **Detail C**. Attach the clamps to the barrier gates as shown. The hinges on the clamps should face the same direction.

Attach the barrier gates to the posts.

Step 7: See **Detail D**. Attach the gates to the posts as shown.

Attach the gates to the deck.

Step 8: See **Detail E**. Attach the gates to the upper holes in deck as shown. The gates can be attached to the lower holes in the deck if needed. When attaching to the lower holes, position the gate tabs between the climber and the deck and then make the connections as shown in **Detail F**.

Attach the climber to the deck.

Step 9: See **Detail F**. Place the climber in, or on, the footing and attach to the deck as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 11: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7006 - GEO ARCH CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0272	CLIMBER - GEO ARCH 48" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	11
BFC1328	SHEET - 19.42" x 22.78" INFILL	1

PM7006S - SURFACE MOUNT GEO ARCH CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0273	CLIMBER - GEO ARCH 48" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	11
BFC1328	SHEET - 19.42" x 22.78" INFILL	1

PM7007 - GEO ARCH CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0270	CLIMBER - GEO ARCH 60" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" OD FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" MPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1

PM7007S - SURFACE MOUNT GEO ARCH CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0271	CLIMBER - GEO ARCH 60" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" OD FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" MPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1



Installation Instructions

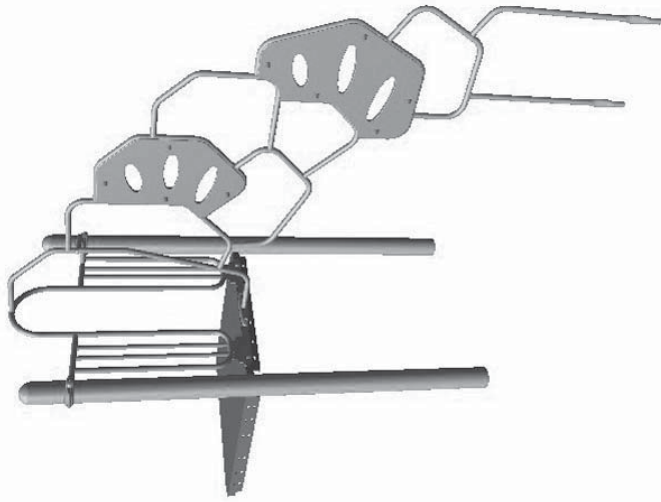
PM7008 - GEO ARCH CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0268	CLIMBER - GEO ARCH 72" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1

PM7008S - SURFACE MOUNT GEO ARCH CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0269	CLIMBER - GEO ARCH 72" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1

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www.playworldsystems.com



Assembly View (representative model)

Installation Instructions

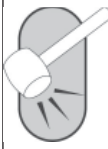
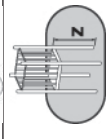
Playmakers® Models PM7016(S)-17(S)

GEO Diagonal Climber

48 in. (1219 mm) to 60 in. (1524 mm) Deck Height
In-Ground and Surface Mount

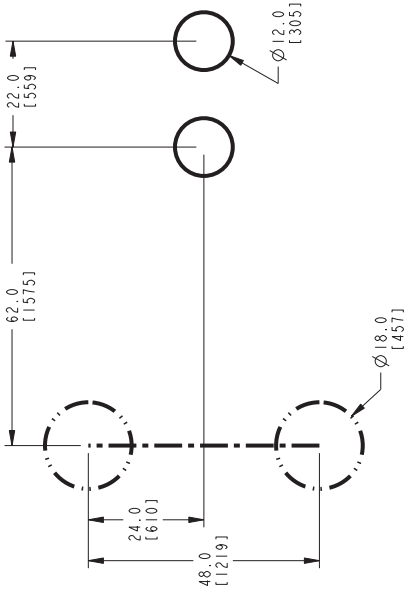
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours (in-ground)
 1 man-hour (surface mount)
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

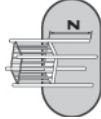
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

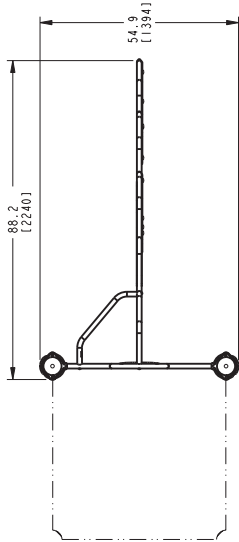
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



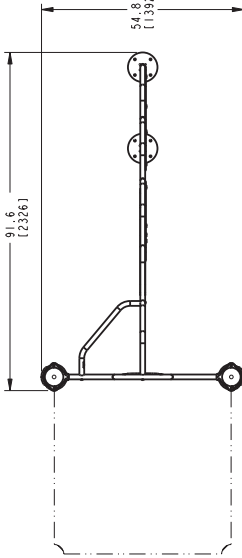
75" (1905 mm) or 74" (1880 mm) depending on gate placement **plus** the height of the deck above the protective surfacing.



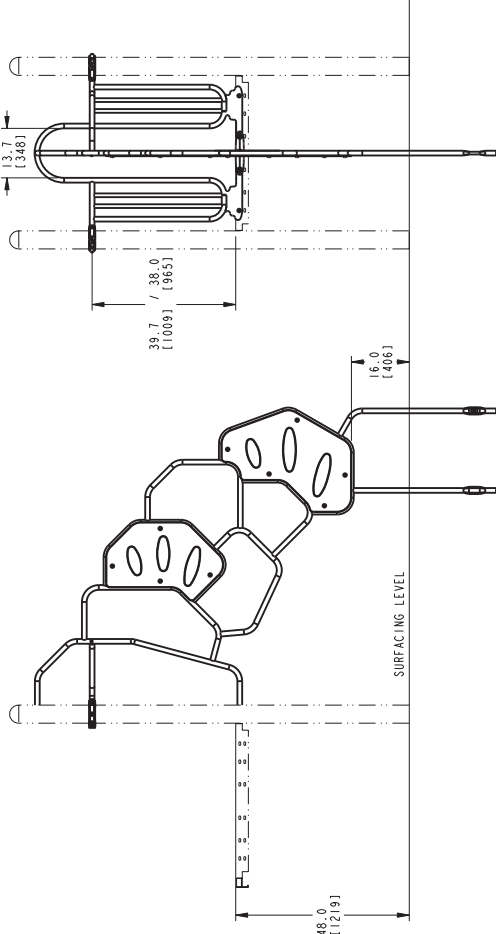
Top View



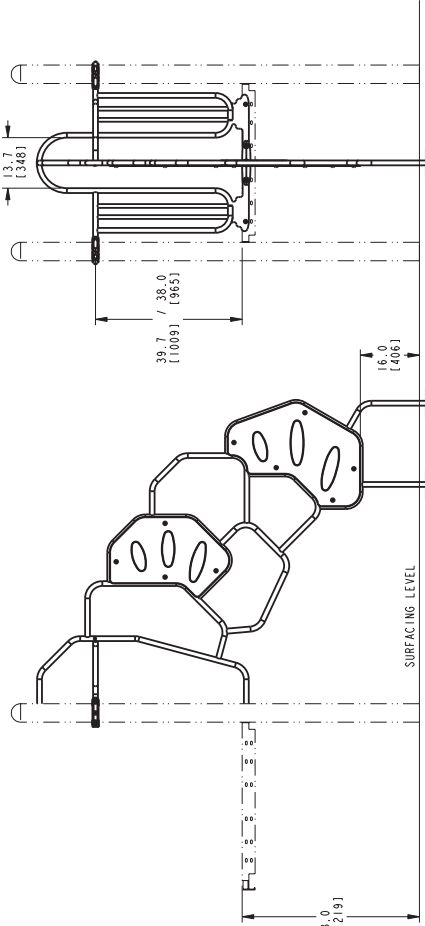
Top View



Footing Diagram
Both Models



Elevation Views
PM7016

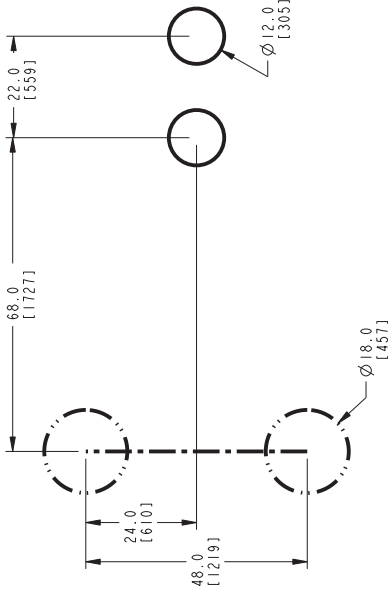


Elevation Views
PM7016S

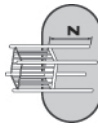


Installation Instructions

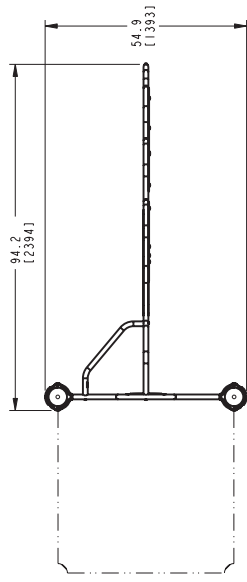
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



87" (2210 mm) or 86" (2185 mm) depending on gate placement **plus** the height of the deck above the protective surfacing.

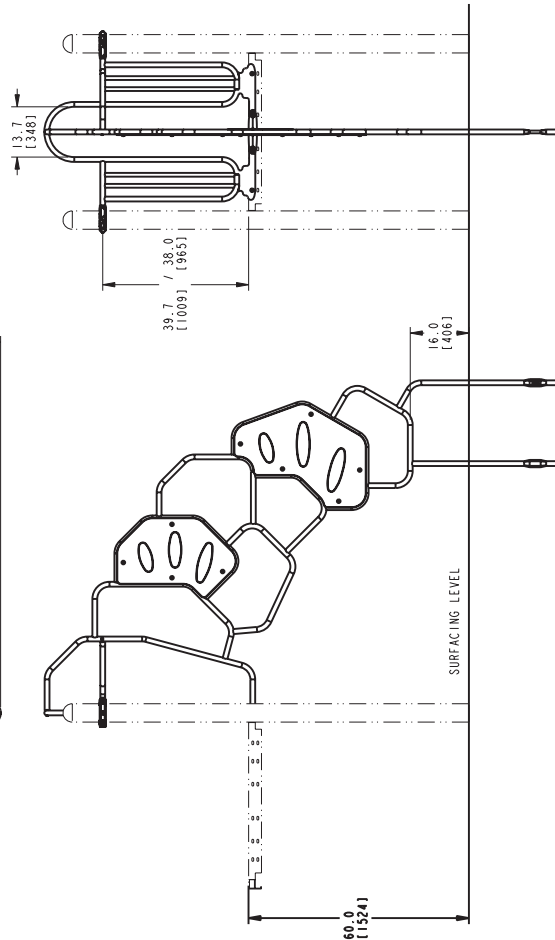
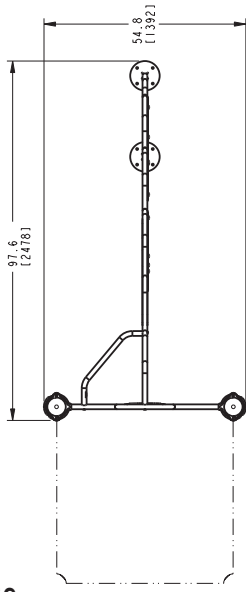


Top View

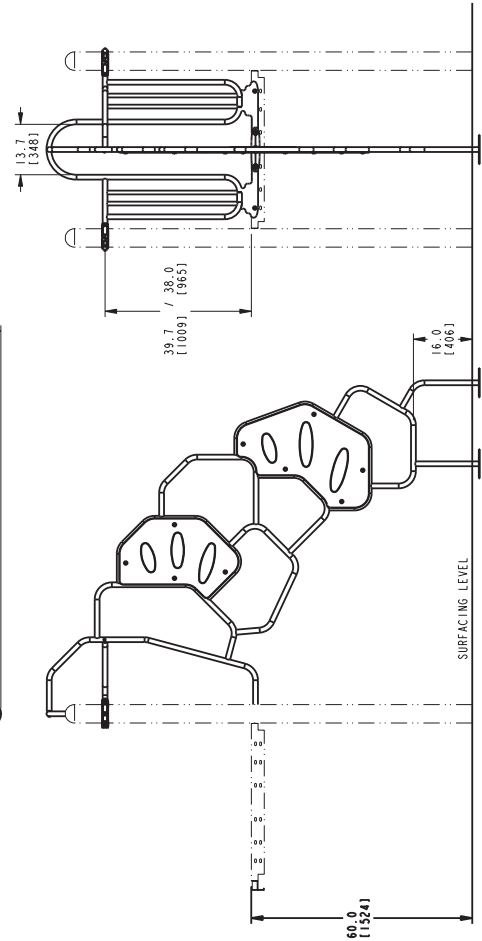


Footing Diagram Both Models

Top View



Elevation Views PM7017

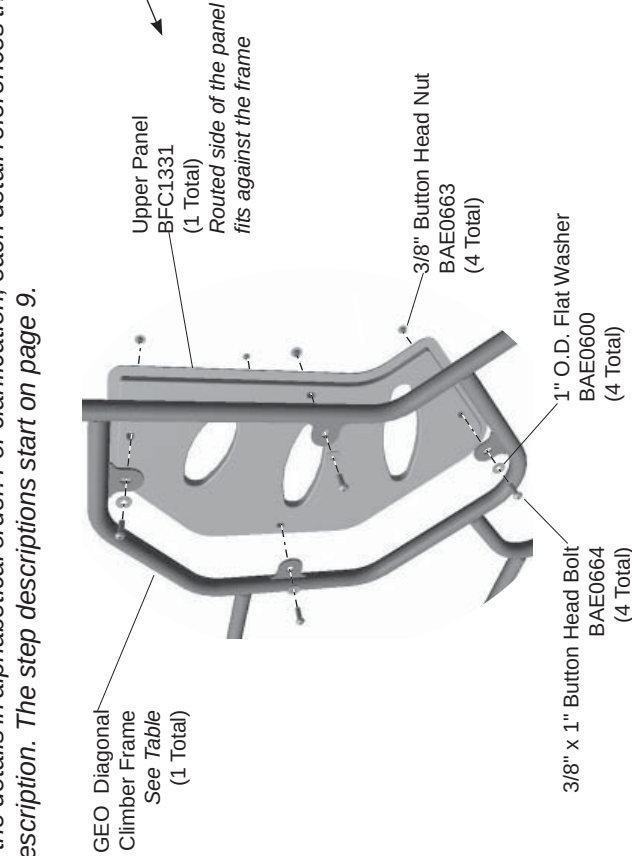


Elevation Views PM7017S

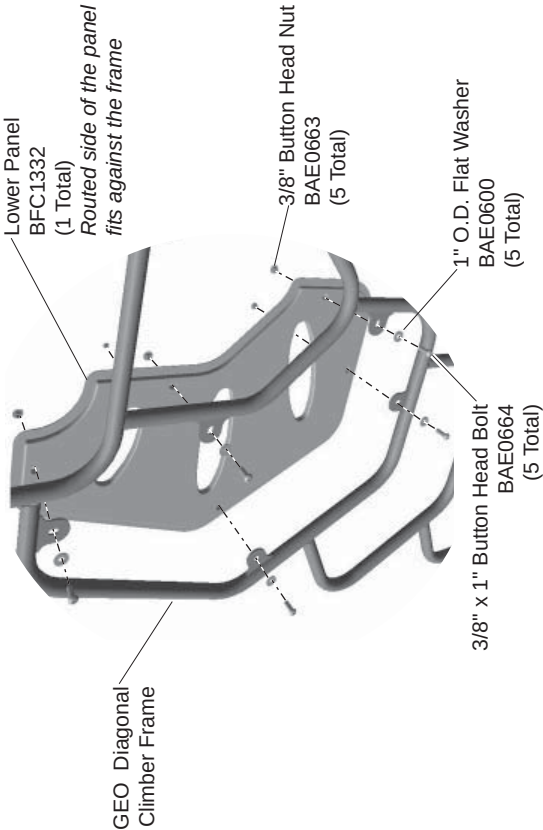
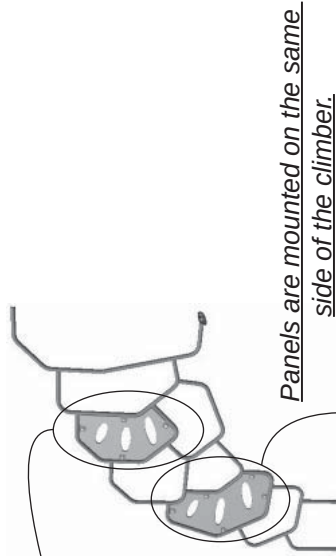


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



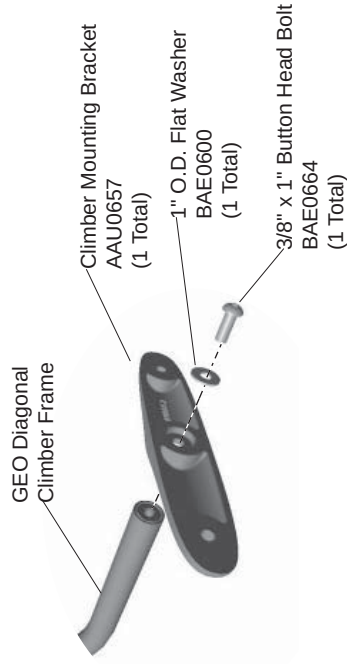
Detail A
Step 4
Assemble the climber -
Attach the upper panel.



Detail B
Step 5
Assemble the climber -
Attach the lower panel.

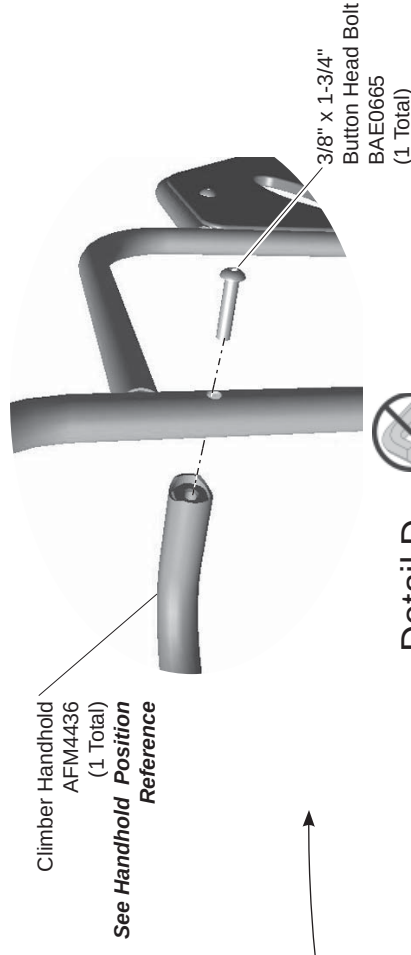
Model	Diagonal Climber Part Number	Deck Height
ZZPM7016	ACL0278	48" (1219 mm)
ZZPM7016S	ACL0279	48" (1219 mm)
ZZPM7017	ACL0276	60" (1524 mm)
ZZPM7017S	ACL0277	60" (1524 mm)

Installation Instructions



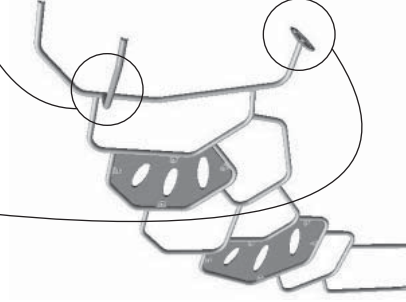
Detail C Step 6

Assemble the climber - attach the mounting bracket to the bottom rung.



Detail D Step 7

Assemble the climber - attach the handhold to the vertical rung on the climber.

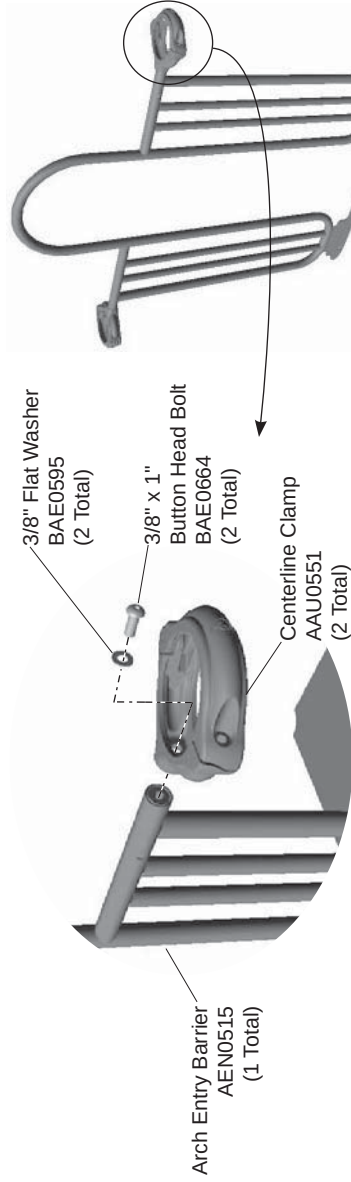


The end of the handhold that is coped in this manner is positioned against the horizontal rung on the barrier as shown in Step 12.

The end of the handhold that is coped in this manner is positioned against the vertical rung on the climber as shown in Step 7.

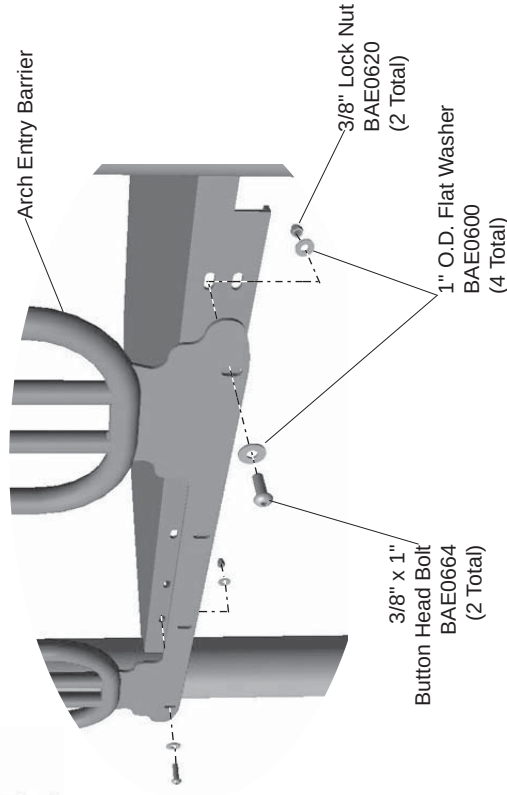
Handhold Position Reference

Installation Instructions



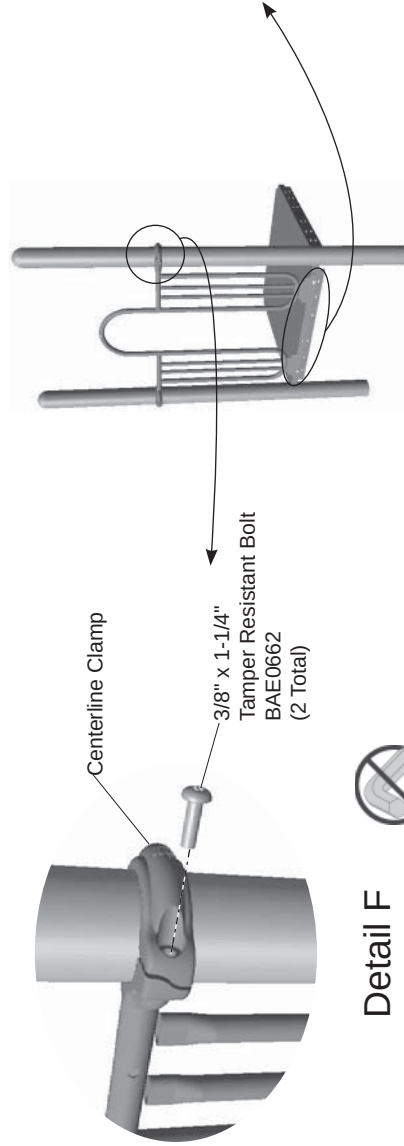
Detail E
Step 8
Attach the clamps the arch entry barrier.

The hinges on the clamps should face the same direction



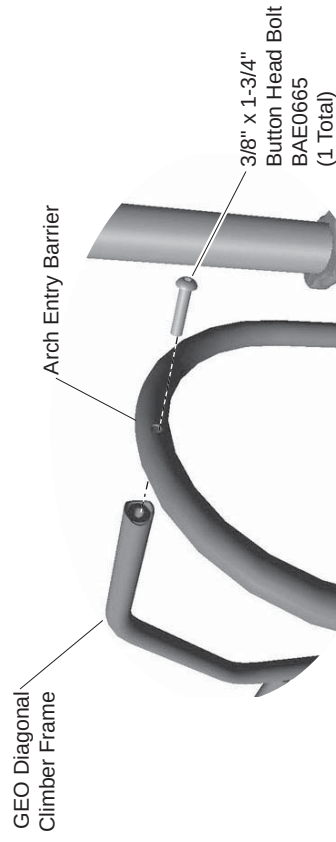
Note: Barrier can be attached to either the upper holes or lower holes in the deck.

Detail G
Step 10
Attach the arch entry barrier to the deck.

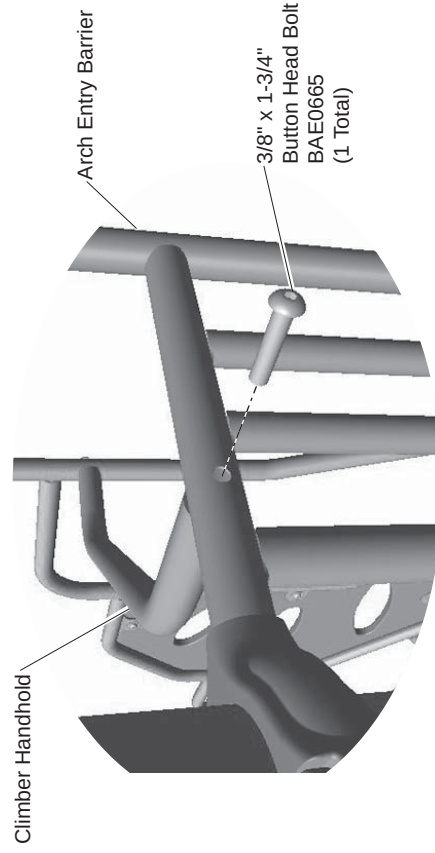


Detail F
Step 9
Attach the arch entry barrier to the posts.

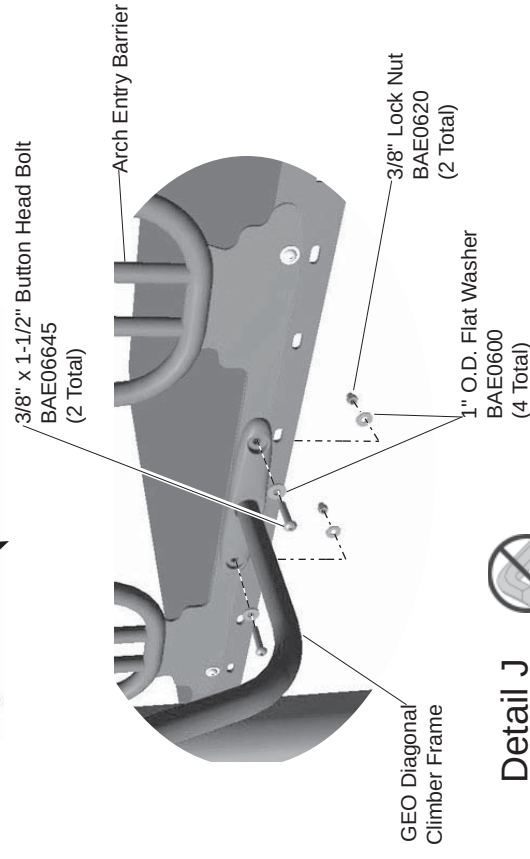
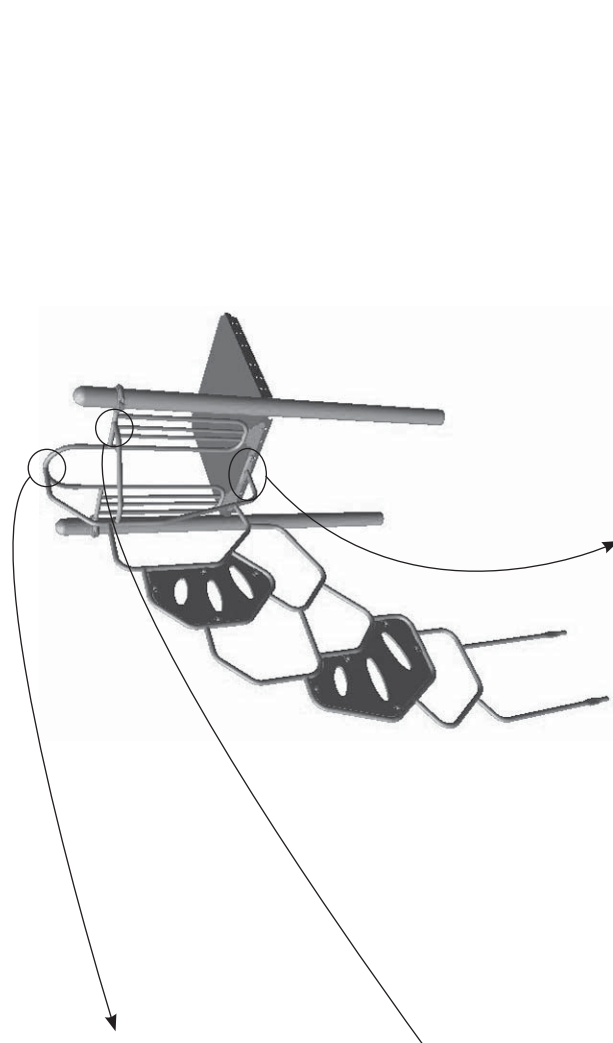
Installation Instructions



Detail H
Step 11
Attach the climber to the arch entry barrier.



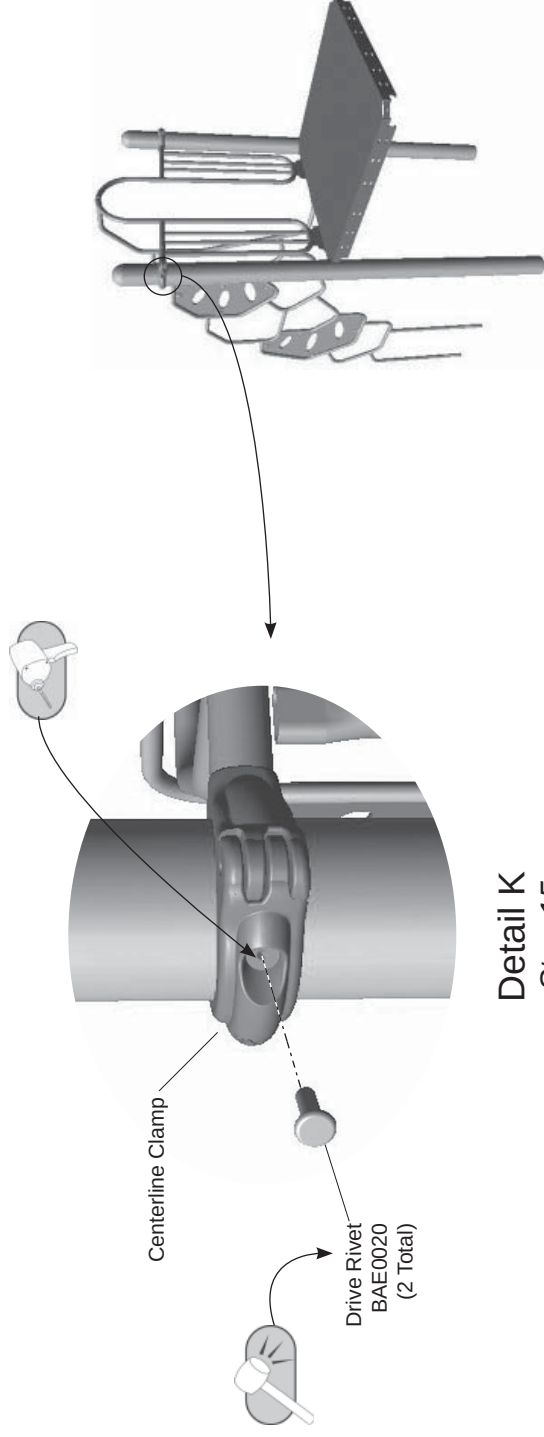
Detail I
Step 12
Attach the handhold to the arch entry barrier.



Detail J
Step 13
Attach the climber to the deck.

Note: If the barriers are attached to the lower holes in the deck, the climber must also be attached to the lower holes.

Installation Instructions



Detail K Step 15

Secure the clamps to the support posts.

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Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Footing Details** shown in the of this instruction booklet. Use the **Component Footing Details** for the in-ground model.

Assemble the climber.

Step 4: Attach the upper panel to the climber. See **Detail A** and the appropriate **Elevation View**. Attach the panel to the climber as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications: *Bolts and nuts* - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the lower panel to the climber. See **Detail B** and the appropriate **Elevation View**. Attach the panel to the climber as shown. Fully tighten the fasteners according to tightening torque specifications.

Step 6: Attach the mounting bracket to the climber. See **Detail C**. Attach the panels to bottom rails on the climber as shown. Fully tighten the fastener according to tightening torque specifications.

Step 7: Attach the handhold to the climber. See **Detail D and Handhold Position Reference**. Position the handhold against the top vertical rung on the climber and attach as shown. Make sure the rung is turned as shown the in reference.

Step 8: Attach the clamps the arch entry barrier. See **Detail E**. Attach the clamps to the arch entry barriers as shown. The hinges on the clamps should face the same direction. Fully tighten the fasteners according to tightening torque specifications.

Step 9: Attach the arch entry barrier to the posts. See **Detail F**. Attach the barrier to the posts as shown.

Step 10: Attach the arch entry barrier to the deck. See **Detail G**. Attach the barrier to the deck as shown. The barrier can be attached to either the upper holes or the lower holes in the deck.

Step 11: Attach the climber to the arch entry barrier. See **Detail H**. Place the climber in it's footing and attach to the top of the arch entry barrier as shown.

Step 12: Attach the handhold to the arch entry barrier. See **Detail I**. Attach the handhold to the barrier as shown.

Step 13: Attach the climber to the deck. See **Detail J**. Attach the climber to the decks as shown.

Note: If the barrier is attached to the lower holes in the deck, the climber must also be attached to the lower holes.

Final Details.

Step 14: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 15: Install drive rivets. See **Detail K**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 16: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

Bill of Materials

PM7016 - GEO DIAGONAL CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0657	CASTING - CLIMBER DECK CONNECTION	1	AAU0657	CASTING - CLIMBER DECK CONNECTION	1
ACL0278	CLIMBER - GEO DIAGONAL 48" DECK	1	ACL0276	CLIMBER - GEO DIAGONAL 60" DECK	1
AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1	AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1
AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1	AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	18	BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9	BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3
BFC1331	SHEET - 21.71" x 32.45" INFILL	1	BFC1331	SHEET - 21.71" x 32.45" INFILL	1
BFC1332	SHEET - 28.25" x 35.99" INFILL	1	BFC1332	SHEET - 28.25" x 35.99" INFILL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM7016S - SURFACE MOUNT GEO DIAGONAL CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0657	CASTING - CLIMBER DECK CONNECTION	1	AAU0657	CASTING - CLIMBER DECK CONNECTION	1
ACL0279	CLIMBER - GEO DIAGONAL 48" DECK (SM)	1	ACL0277	CLIMBER - GEO DIAGONAL 60" DECK (SM)	1
AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1	AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1
AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1	AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	18	BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9	BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3
BFC1331	SHEET - 21.71" x 32.45" INFILL	1	BFC1331	SHEET - 21.71" x 32.45" INFILL	1
BFC1332	SHEET - 28.25" x 35.99" INFILL	1	BFC1332	SHEET - 28.25" x 35.99" INFILL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM7017S - SURFACE MOUNT GEO DIAGONAL CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0657	CASTING - CLIMBER DECK CONNECTION	1	AAU0657	CASTING - CLIMBER DECK CONNECTION	1
ACL0277	CLIMBER - GEO DIAGONAL 60" DECK (SM)	1	ACL0277	CLIMBER - GEO DIAGONAL 60" DECK (SM)	1
AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1	AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/ HOLE	1
AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1	AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	18	BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9	BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3
BFC1331	SHEET - 21.71" x 32.45" INFILL	1	BFC1331	SHEET - 21.71" x 32.45" INFILL	1
BFC1332	SHEET - 28.25" x 35.99" INFILL	1	BFC1332	SHEET - 28.25" x 35.99" INFILL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1



Assembly View (representative model)

Model	Deck Height	Weight
ZZPM0296	12" (305 mm) to 24" (610 mm)	66.01 lbs. (30 kg)
ZZPM0297	36" (915 mm) to 48 " (1219 mm)	74.81 lbs. (34 kg)

Installation Instructions

Playmakers® Model PM0296 and PM0297

12" (305 mm) to 24" (610 mm) Deck Access

and 36" (914 mm) to 48" (1219 mm) Deck Access

GroundZero® Post w/ Ladder

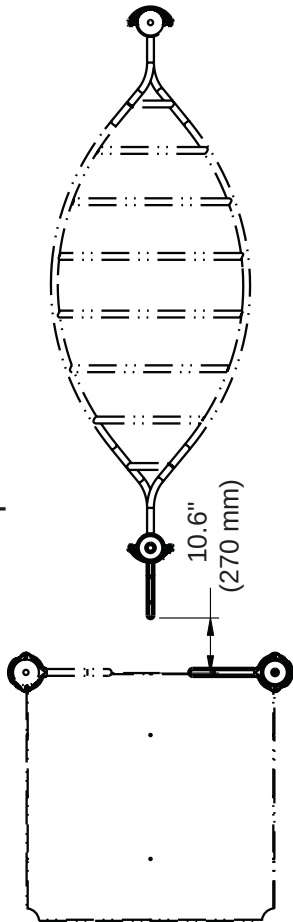
Installation Preparation

- Recommended Crew: One (1) adult
- Installation Time: 0.5 man-hour
- Weight: (refer to table)
- Concrete Required: 0.13 cubic yard (0.10 cubic meters)
- Use Zone:..... Refer to Master Drawing
- User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

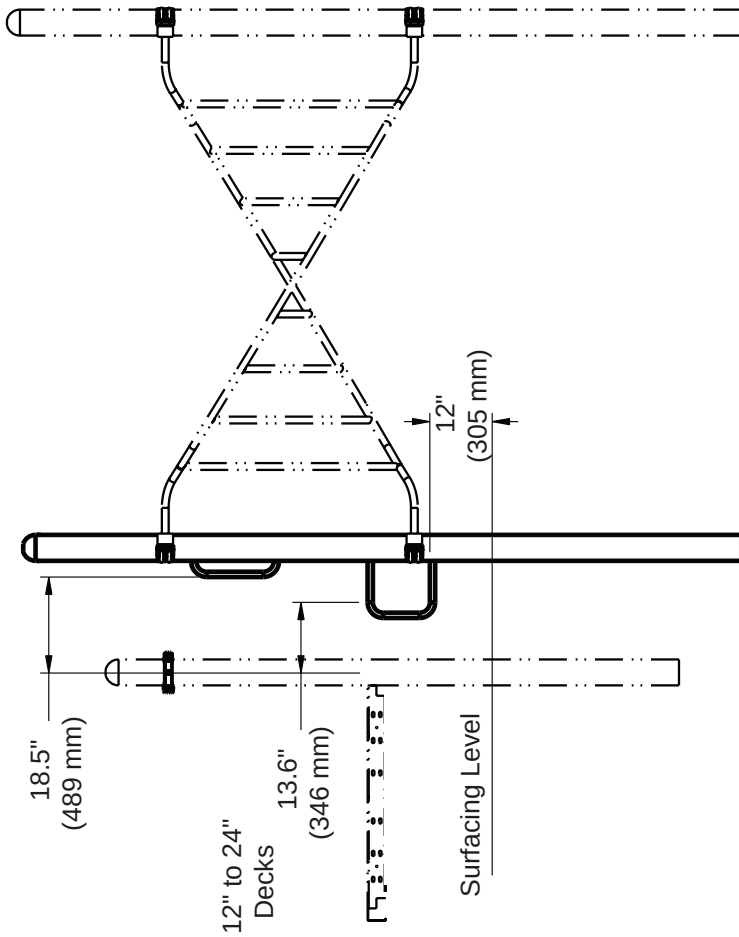
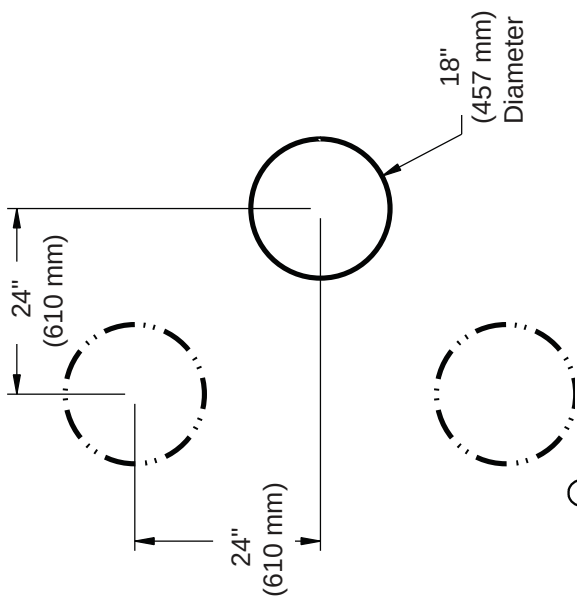
ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Pour Concrete
	Critical Fall Height	Dig Footing Holes

Installation Instructions

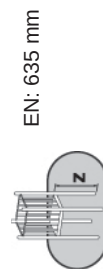
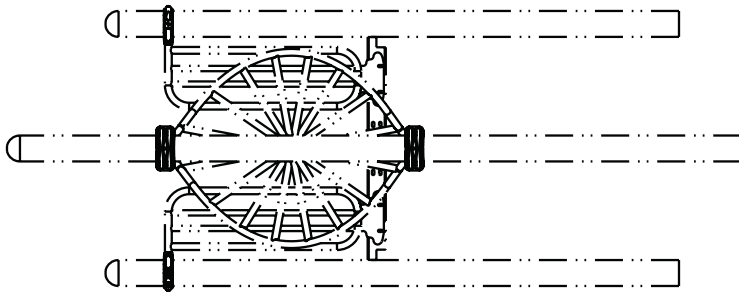
Top View



Footing Diagram



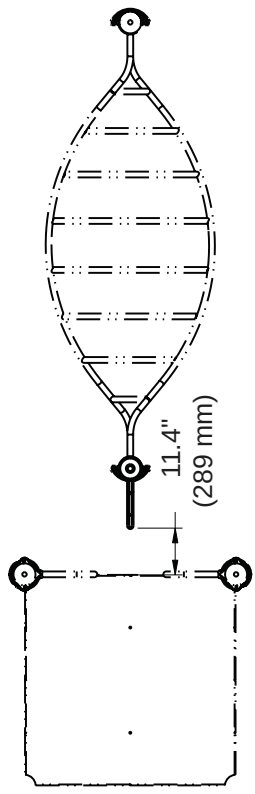
Elevation Views
ZZPM0296



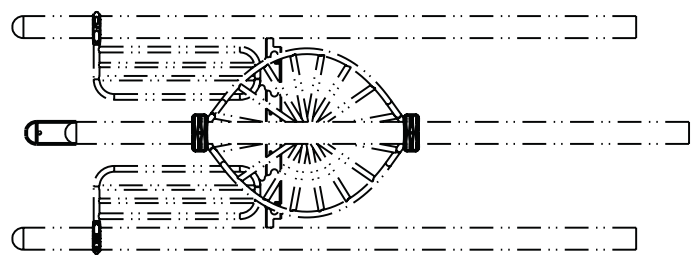
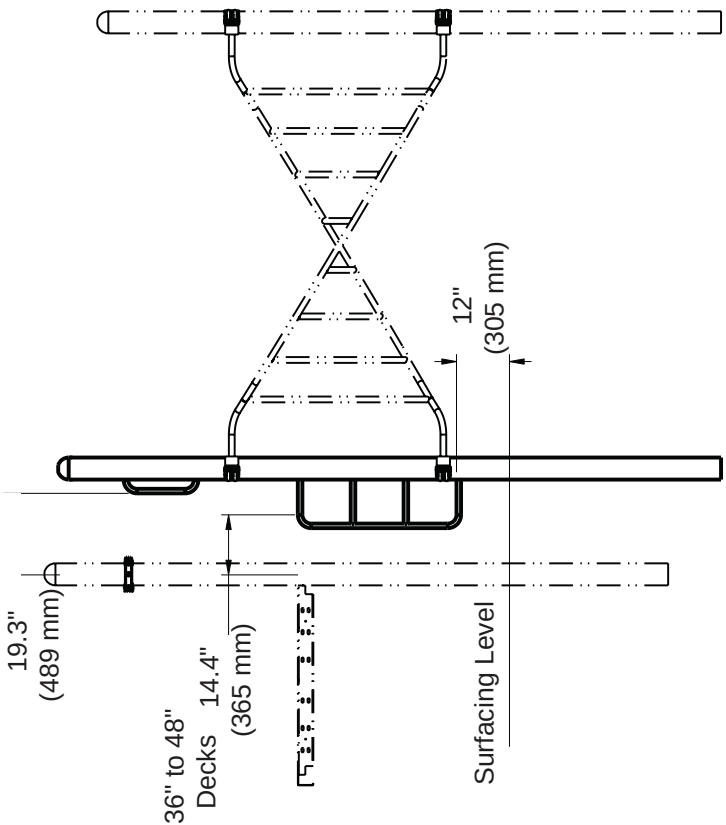
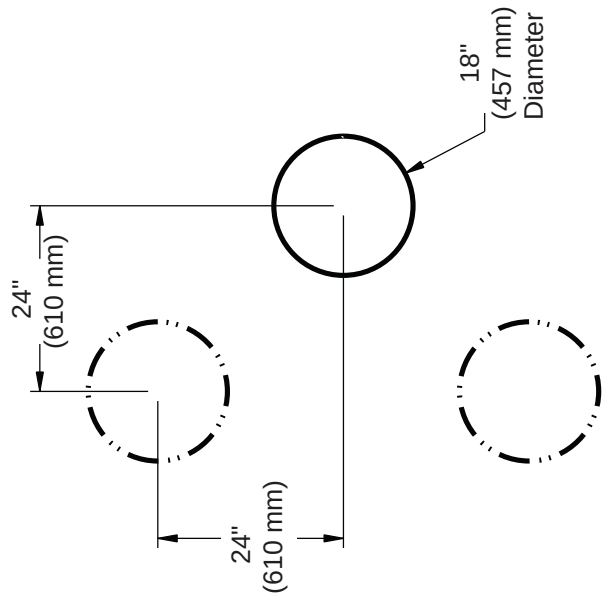
EN: 635 mm

Installation Instructions

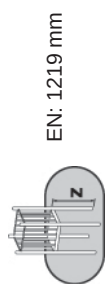
Top View



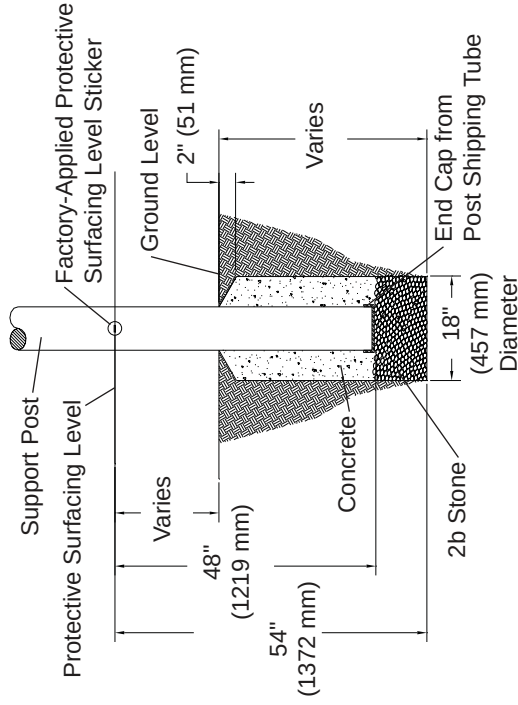
Footing Diagram



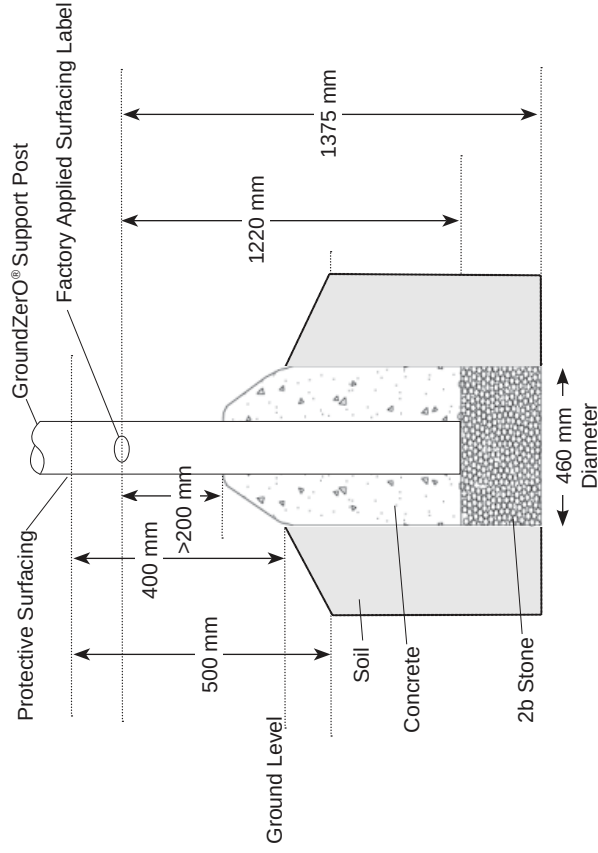
Elevation Views
ZZPM0297



Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



Footing Detail - GroundZero® Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footing Details**.

Place the support post in the prepared hole.

Step 4: Place the support post into the prepared hole. See **Detail A** and **Elevation View**. Select the support post. Place the post into the hole as shown in the **Elevation View**.

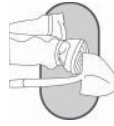
Important Note: Align the ladder to the deck as shown in the **Elevation View**.

Final Details.

Step 5: Plumb and level entire component. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



Detail A
Step 4



Step 3

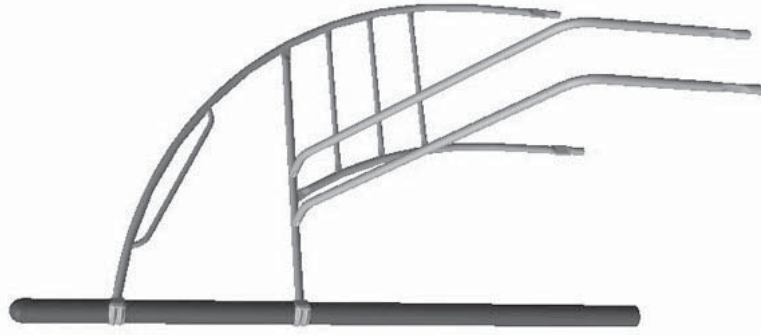


Step 5

Bill of Materials

PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER		PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER	
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)
	QTY.		QTY.
	1		1

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Assembly View (representative model)

Model	Name	Weight
ZZPM8458	The Low Arch- Right	120.5 lbs. (54,8 kg)
ZZPM8458S	The Low Arch- Right (SM)	120.5 lbs. (54,8kg)
ZZPM8469	The Low Arch- Left	120.9 lbs. (55 kg)
ZZPM8469S	The Low Arch- Left (SM)	121.1 lbs. (55 kg)

Installation Instructions

Playmakers® Models PM8458, PM8458S, PM8469, & PM8469S

The Low Arch (Right and Left)

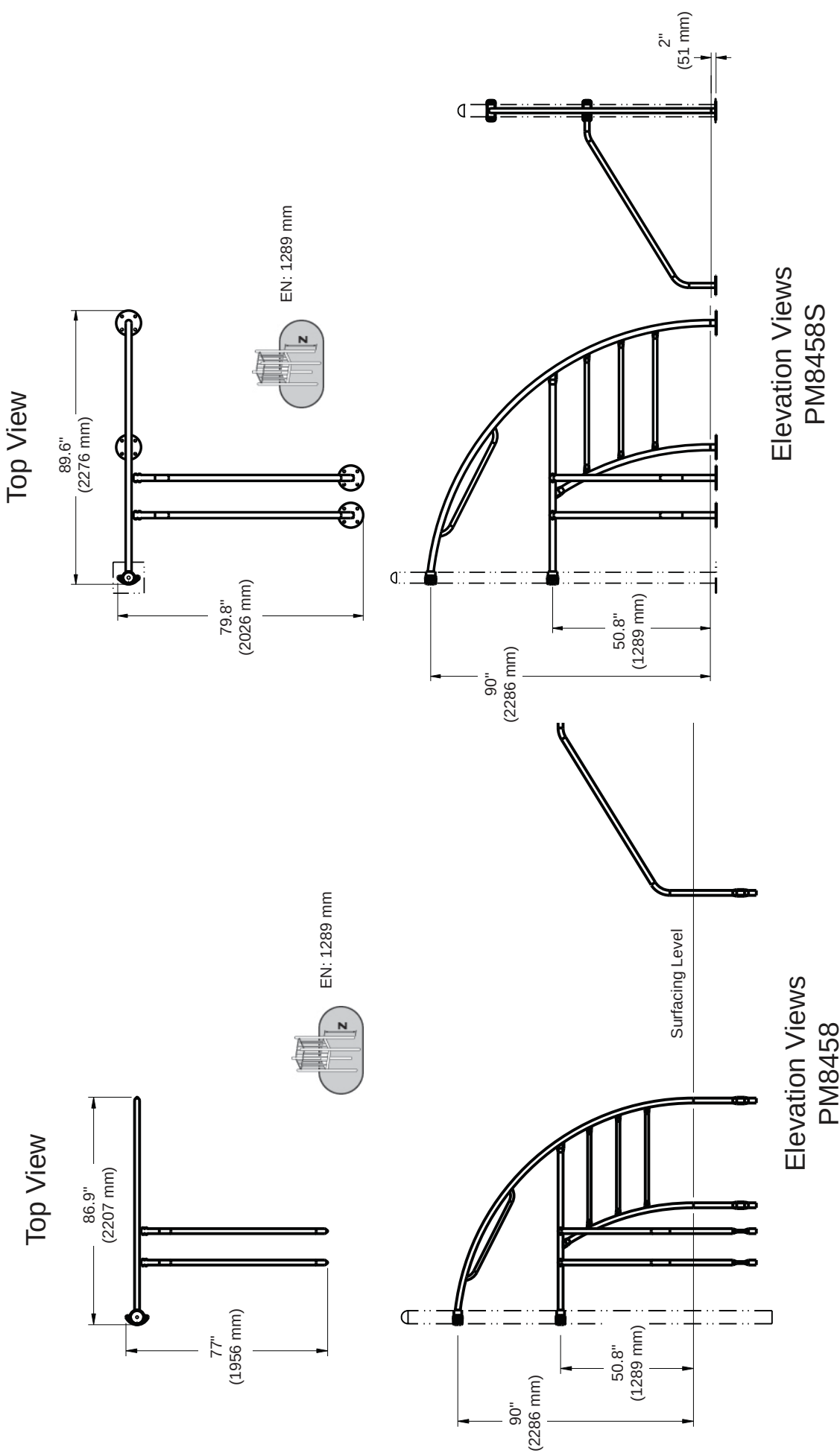
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: In-Ground 1.5 installation-hours
 Surface Mount 0.5 installation-hours
 Weight: (refer to table)
 Concrete Required (for In-ground): 0.12 cubic yard (0,08 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

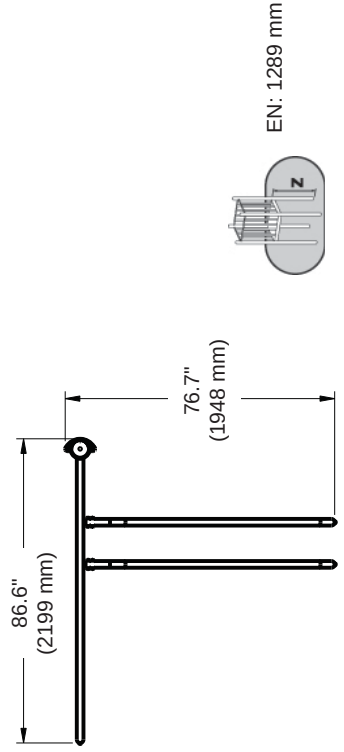
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

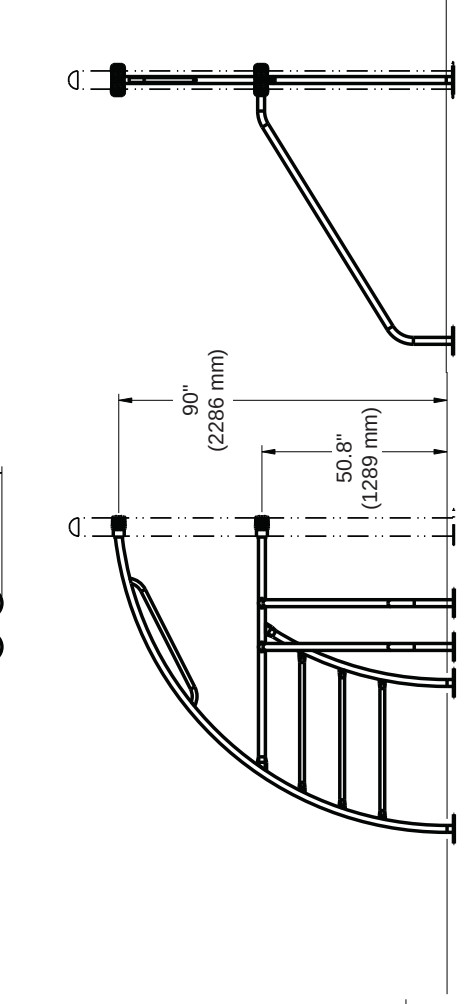
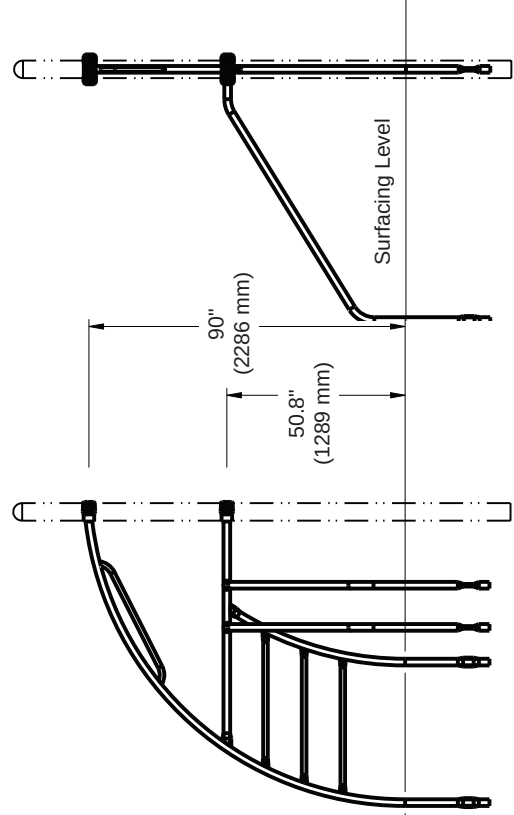
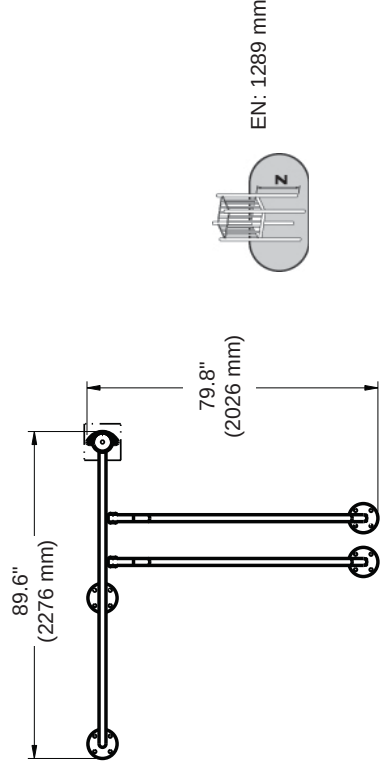


Installation Instructions

Top View



Top View

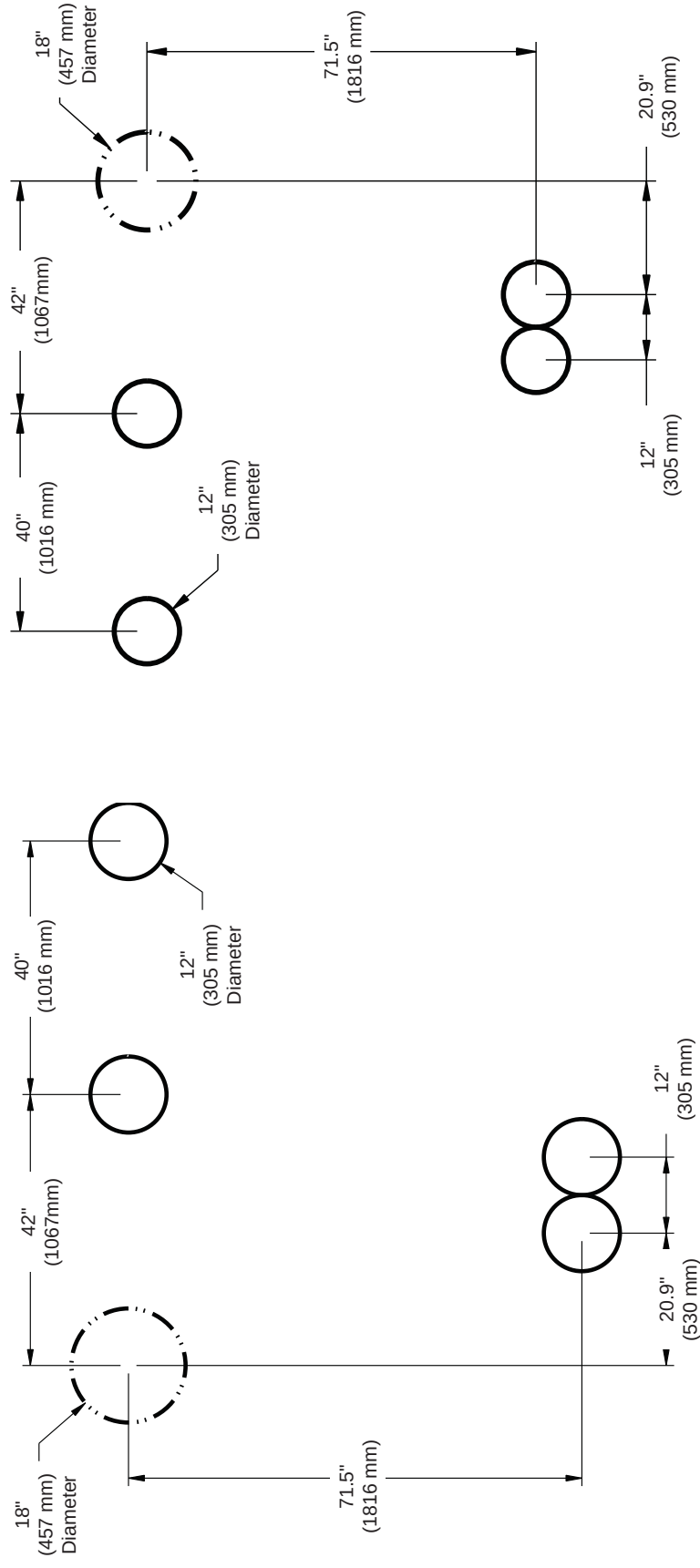


Elevation Views
PM8469

Elevation Views
PM8469S



Installation Instructions

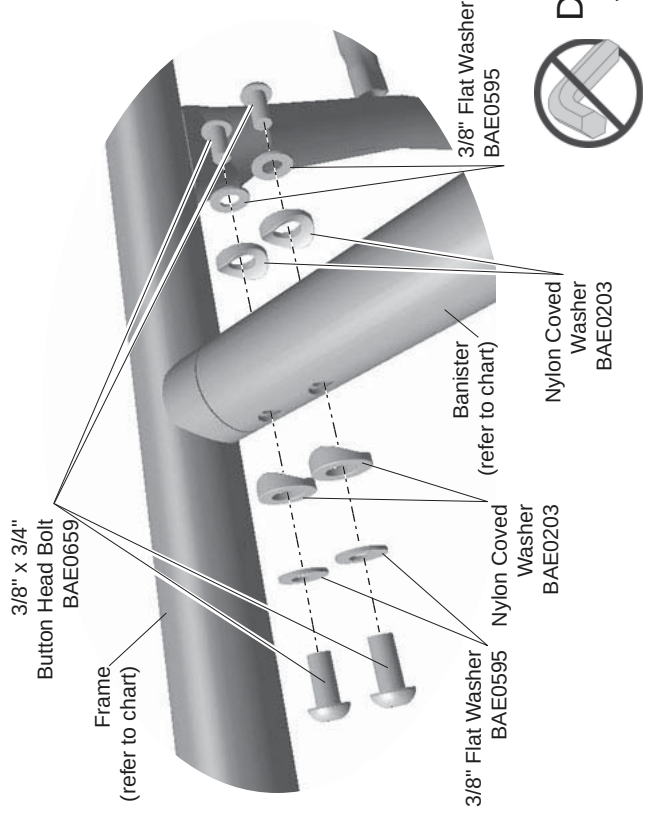
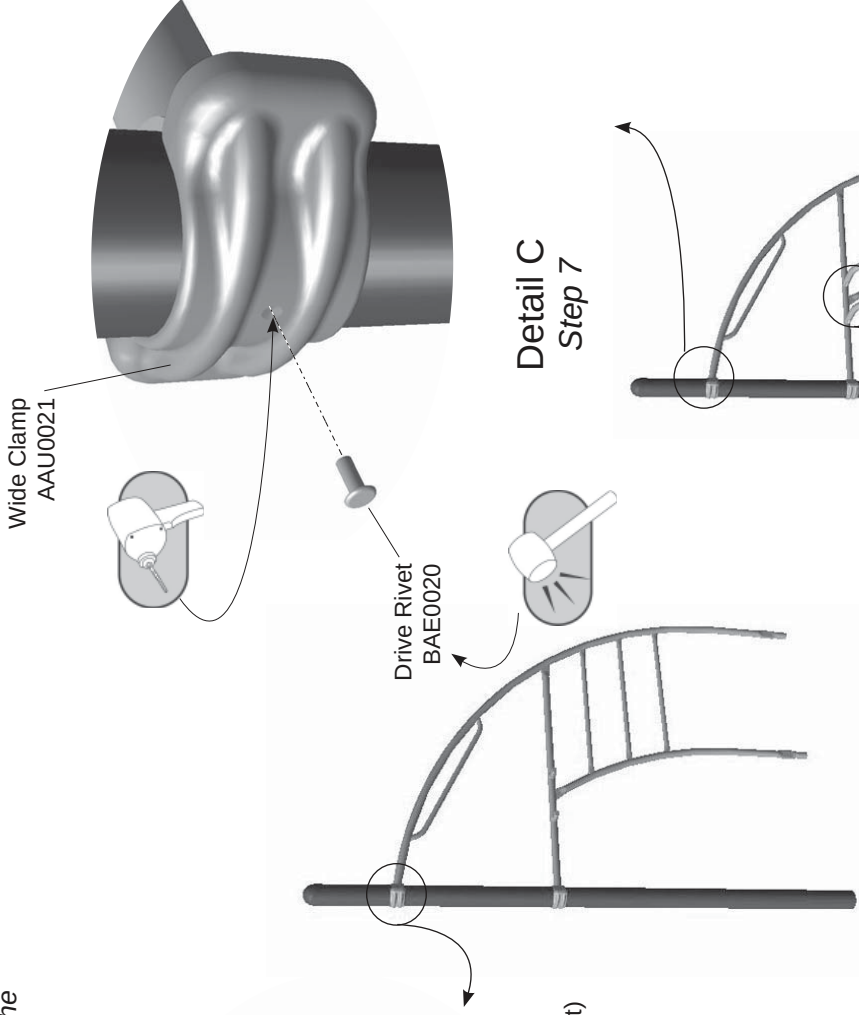
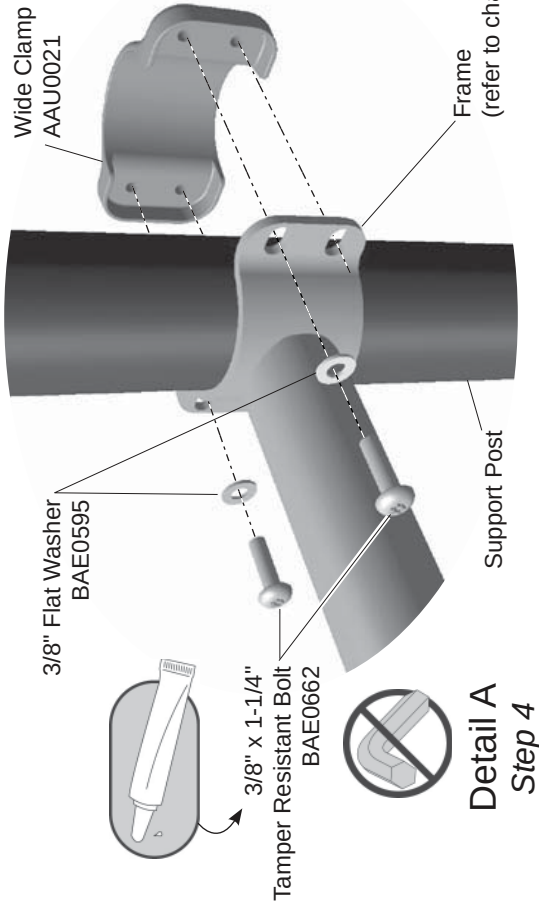


Footing Diagram
PM8458 & PM8458S

Footing Diagram
PM8469 & PM8469S

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Model	Frame Part #	Banister Part #
ZZPM8458	AFR0764	AFM4029
ZZPM8458S	AFR0765	AFM4036
ZZPM8469	AFR0719	AFM4029
ZZPM8469S	AFR0720	AFM4036

(representative model)

(representative model)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or Prepare footings as shown in the **Footing Details** in the Playmaker Guidelines. Use the **Component Footing Details** for the in-ground model.

Attach the frame to the support posts.

Step 4: See **Detail A**. Select the frame, the clamps, and the appropriate hardware. There are (8) eight connections. Place the frame in the appropriate position. Apply a drop of loctite to the bolt threads and attach as shown.

Attach the banister to the frame.

Step 5: See **Detail B**. Select the banister and the appropriate hardware. There are (8) eight connections. Insert the stub on the frame into the banister. Align the holes and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM8458 - THE LOW ARCH (RIGHT)

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFM4029	FAB METAL - 1.90" O.D. x 70.95" x 75.70"	2
AFR0764	FRAME - ADV END CLIMBER / SLIDE - RIGHT (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0203	WASHER - NYLON COVED .53" I.D. x 1.00" O.D.	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8458S - THE LOW ARCH (RIGHT)- SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFM4036	FAB METAL - 53.70" x 74.00" (SM)	2
AFR0765	FRAME - ADV END CLIMBER / SLIDE - RIGHT (PM) (SM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0203	WASHER - NYLON COVED .53" I.D. x 1.00" O.D.	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8469 - THE LOW ARCH (LEFT)

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFM4029	FAB METAL - 1.90" O.D. x 70.95" x 75.70"	2
AFR0719	FRAME - ADV END CLIMBER / SLIDE - LEFT (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0203	WASHER - NYLON COVED .53" I.D. x 1.00" O.D.	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8469S - THE LOW ARCH (LEFT) - SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFM4036	FAB METAL - 53.70" x 74.00" (SM)	2
AFR0720	FRAME - ADV END CLIMBER / SLIDE - LEFT (PM) (SM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0203	WASHER - NYLON COVED .53" I.D. x 1.00" O.D.	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8



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⚠ WARNING

Attention Owner

The Sky Link and The Sky Arch is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Sky Link and The Sky Arch can result in serious accidents. The following rules for the use of the Sky Link and The Sky Arch must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Sky Link and The Sky Arch is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the Sky Link or The Sky Arch assembly.
- Users must move in same direction across the length of the Sky Link and The Sky Arch assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.

- Be alert to swinging feet generated by body movement of participants using the apparatus.

- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.

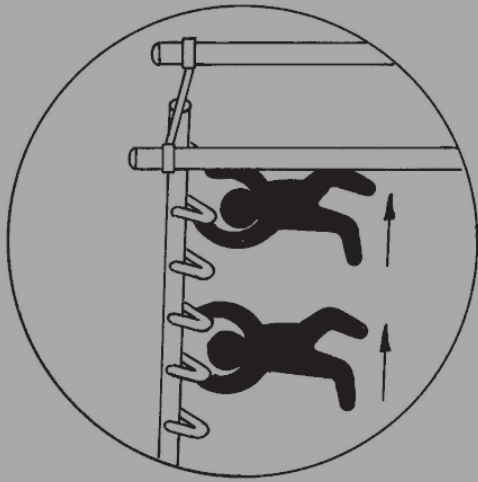
- Drop from hand rungs with knees slightly bent and land on both feet.

- Protective surfacing material must be installed and maintained within the use zone of the Sky Link and The Sky Arch in accordance with the applicable standard in your area, appropriate for the fall height of the Sky Link and The Sky Arch.

- Review and familiarize warning document supplied with each Sky Link and The Sky Arch shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

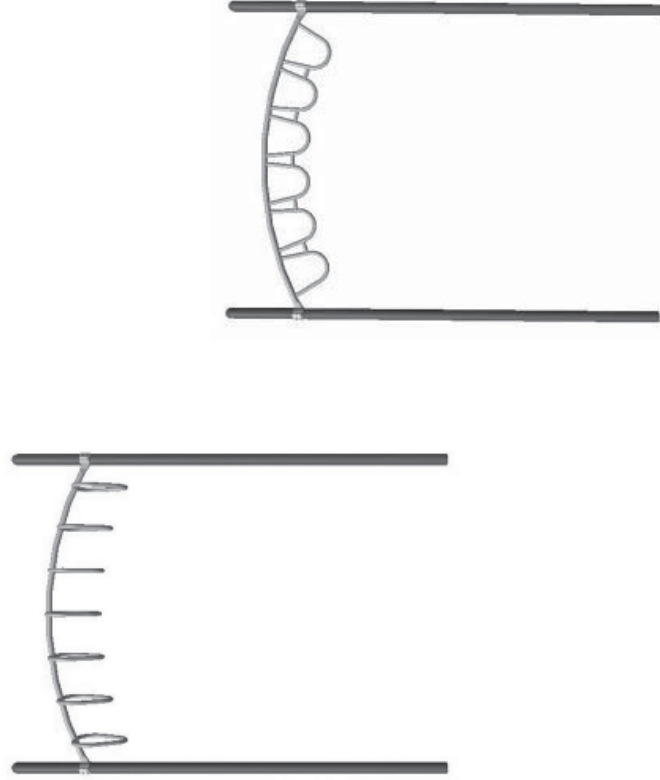


Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet

Installation Instructions Playmakers® Models PM8450 & PM8456 The Sky Link & The Sky Arch

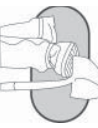
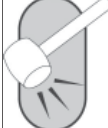
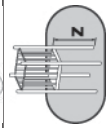


Assembly View (representative model)

Model	Name	Weight
ZZPM8450	The Sky Link	55.1 lbs. (25 kg)
ZZPM8456	The Sky Arch	45.7 lbs. (20.8 kg)

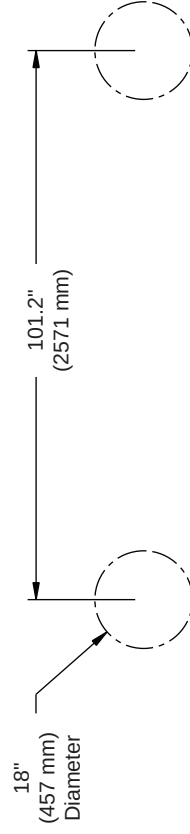
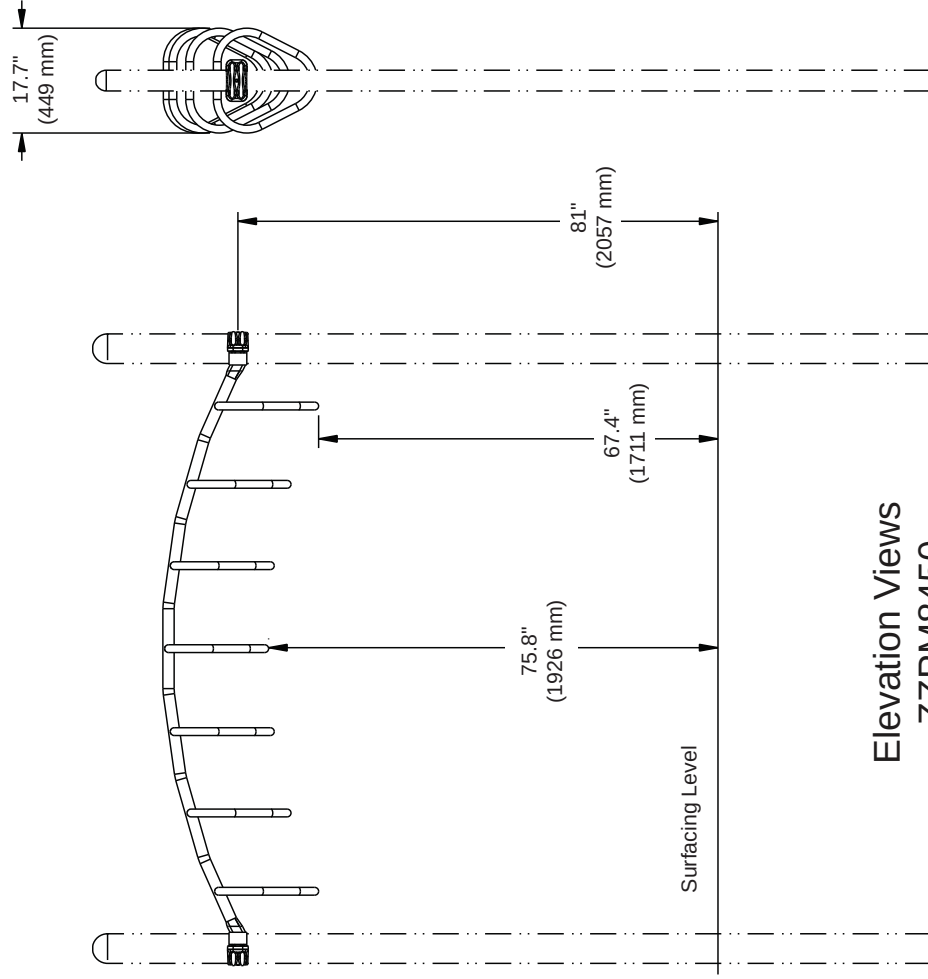
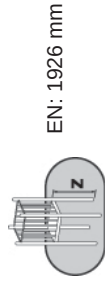
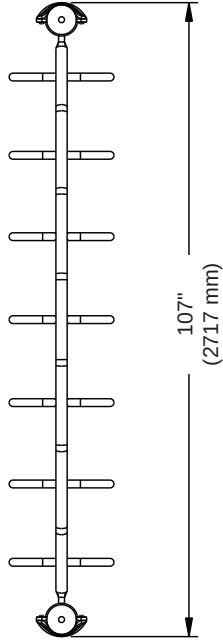
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 installation-hours
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

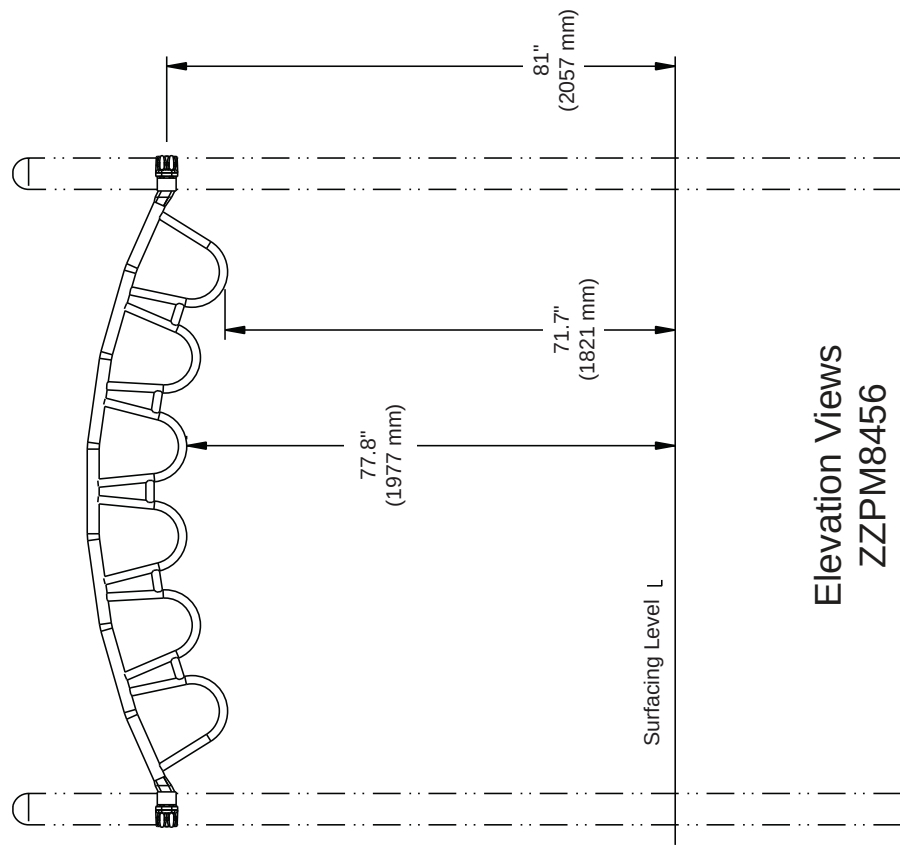
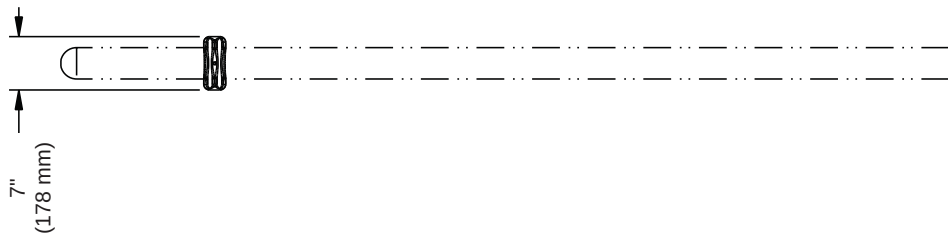
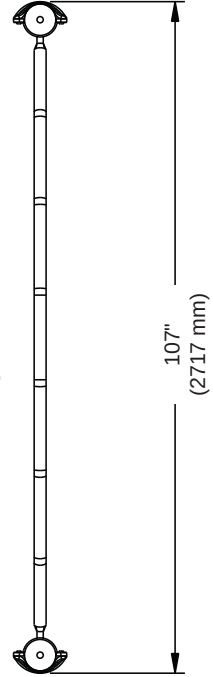


Footing Diagram
Both Models

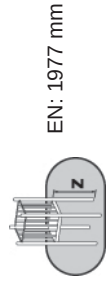
Elevation Views
ZZPM8450

Installation Instructions

Top View

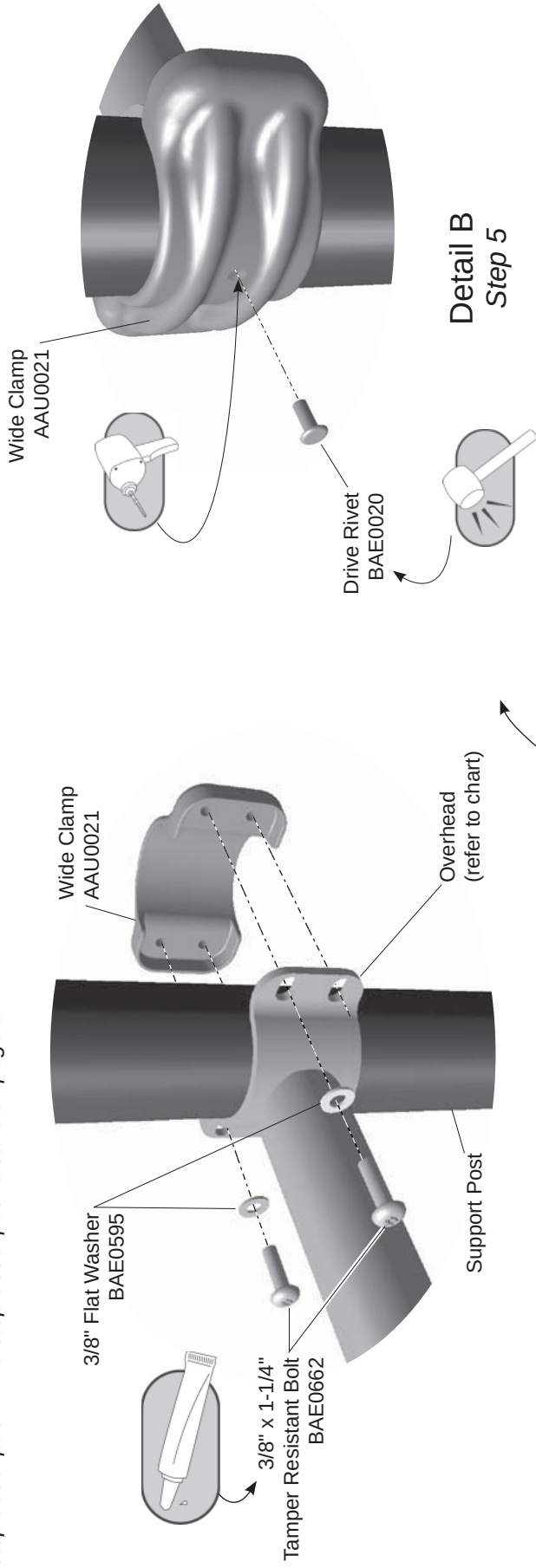


Elevation Views
ZZPM8456

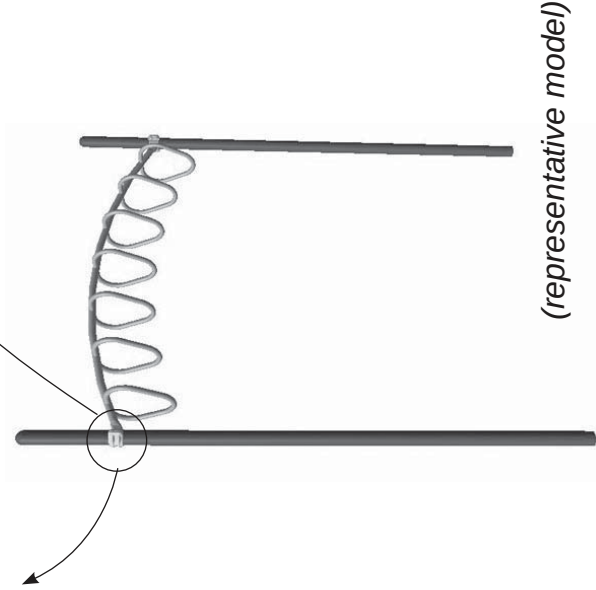


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3



Detail B
Step 5

Model	Overhead Part Number
ZZPM8450	AFR0777
ZZPM8456	AFR0775

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0777	OVERHEAD - ADVENTURE SERIES BACKBONE (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8456 - THE SKY ARCH

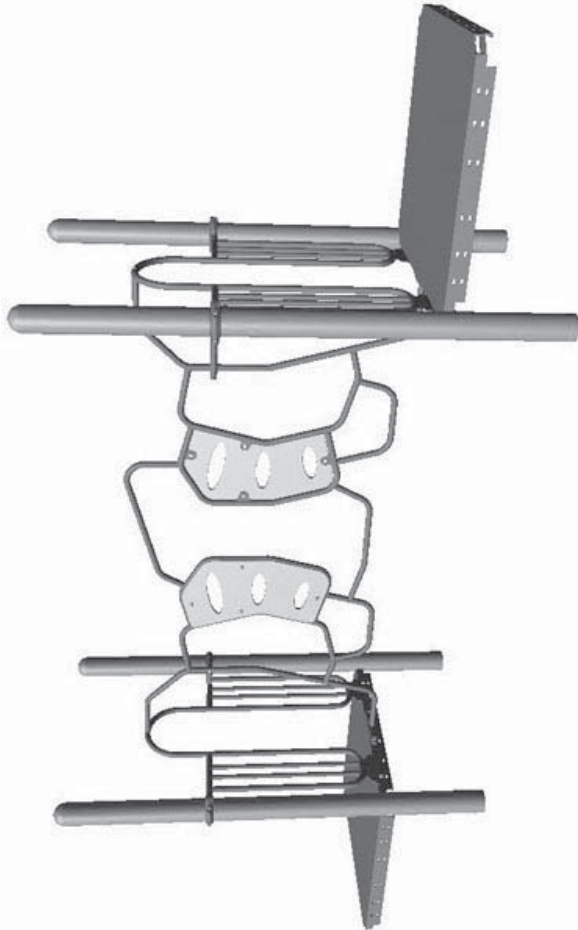
PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0775	OVERHEAD - ADVENTURE SERIES LOOP (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8



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Installation Instructions Playmakers® Model PM6700 GEO Bridge Climber



Assembly View

Installation Preparation

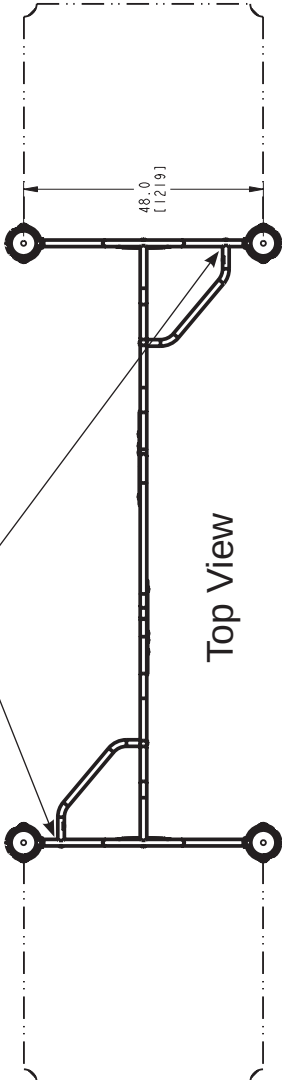
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 171.2 lbs. (77,8 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

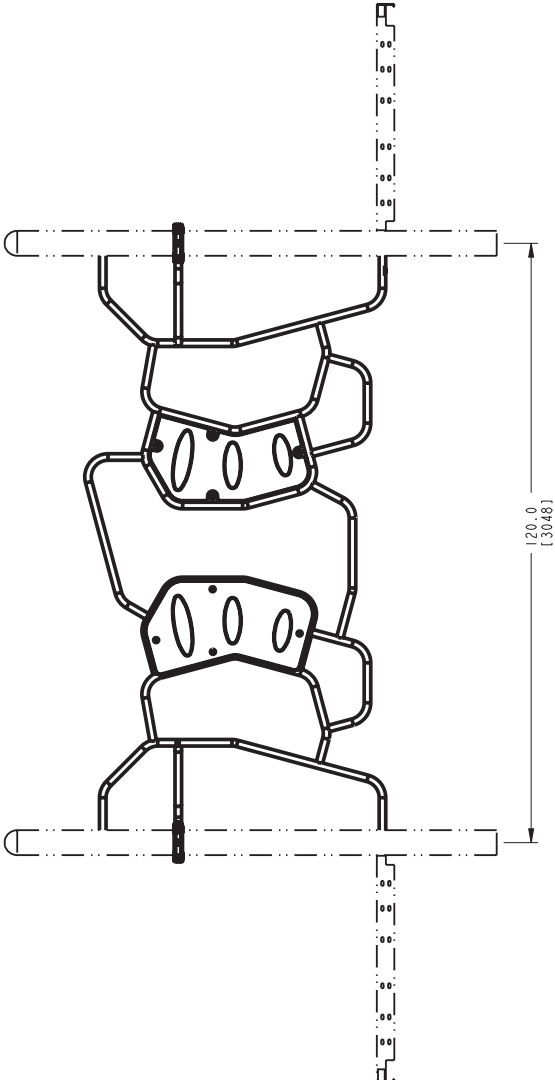
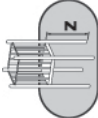
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Mount the barriers to the posts so that the handhold connection hole in the barrier is on the same side as the climber handholds



Top View

EN: 1013 mm or 965 mm (depending on gate placement) **plus** the height of the deck above the protective surfacing.

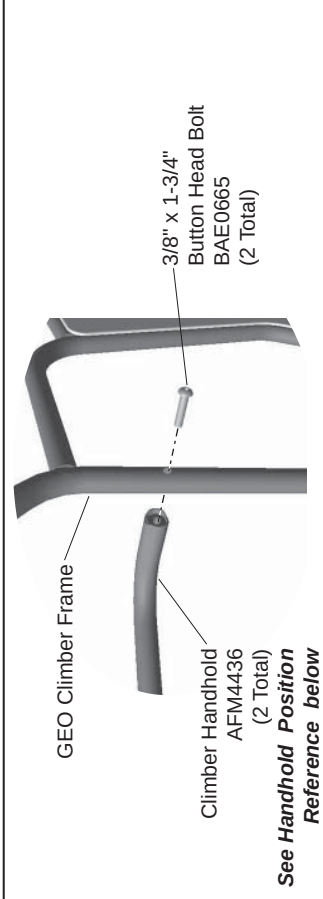


Elevation Views



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail C
Step 5
Assemble the climber

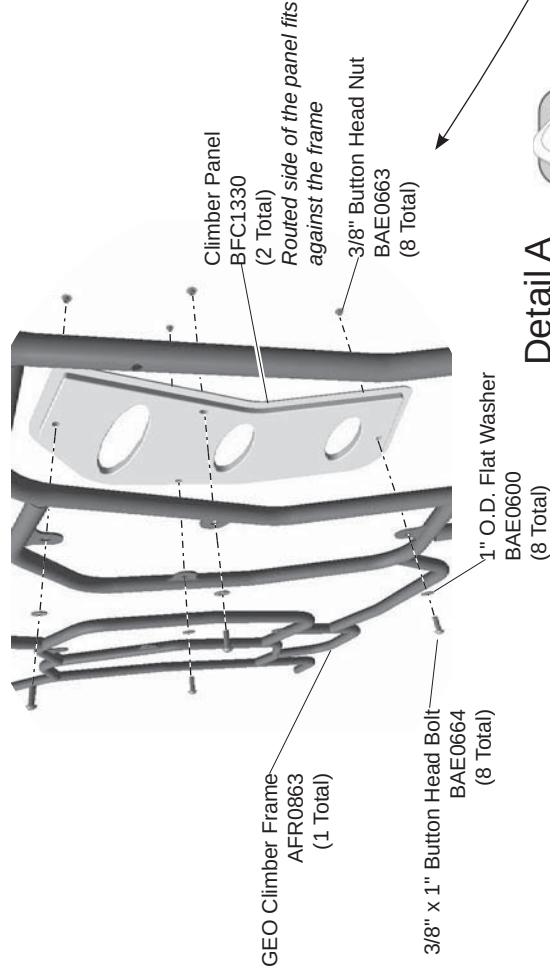
Climber Top View



Handholds are mounted on opposite sides of the climber.

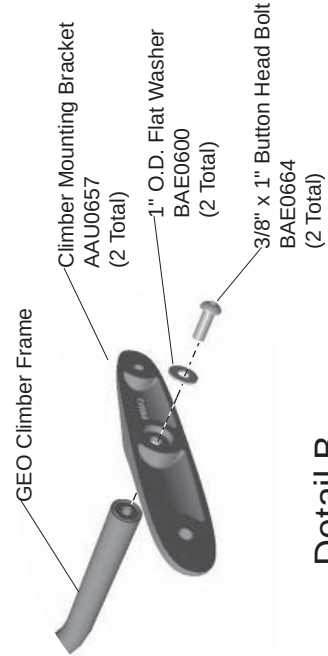
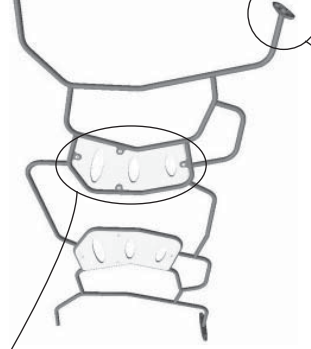
The end of the handhold that is coped in this manner is positioned against the vertical rung on the climber as shown in Step 5.

Handhold Position Reference



Detail A
Step 3
Assemble the climber

Panels are mounted on opposite sides of the climber.

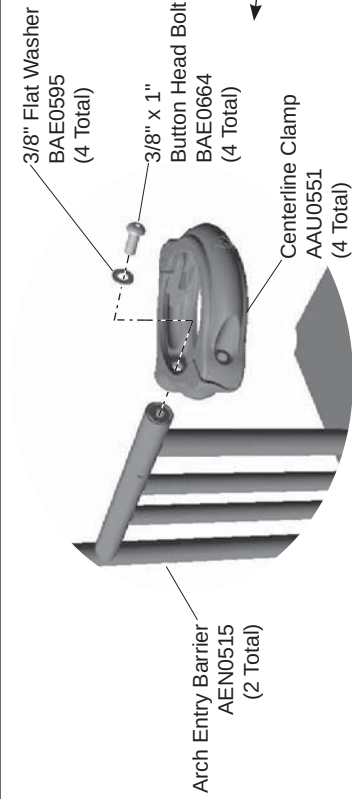


Detail B
Step 4
Assemble the climber

The end of the handhold that is coped in this manner is positioned against the horizontal rung on the barrier as shown in Step 9.



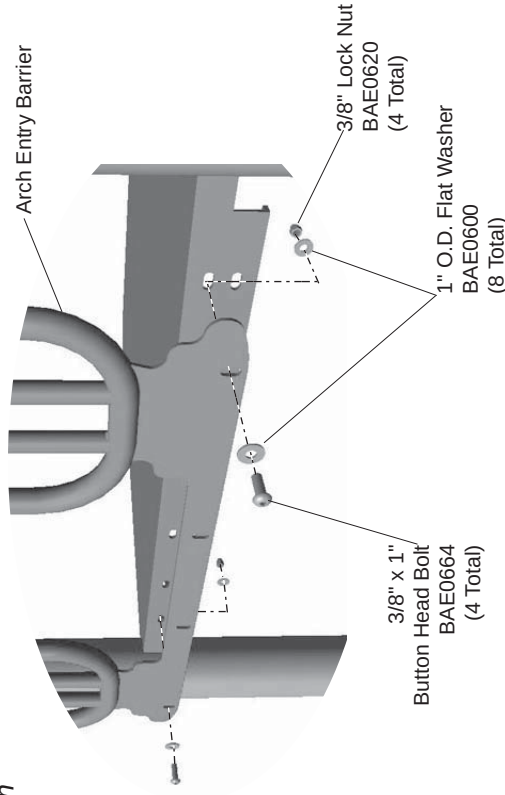
Installation Instructions



Detail D Step 6

Attach the clamps the arch entry barriers

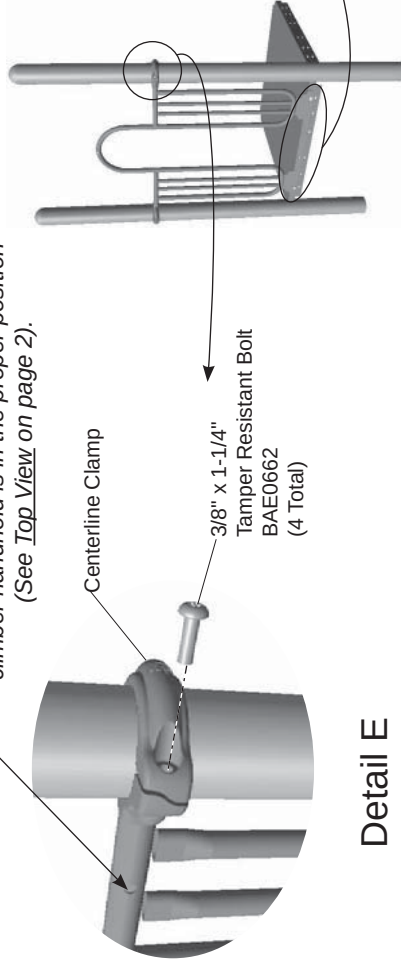
The hinges on the clamps should face the same direction



Note: Barriers can be attached to either the upper holes or lower holes in the deck.

Detail E Step 7

Attach the arch entry barriers to the posts



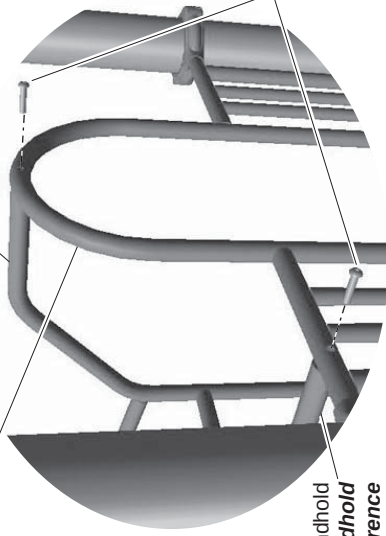
Detail F Step 8

Attach the arch entry barriers to the decks

Installation Instructions

GEO Climber Frame

Arch Entry Barrier



Climber Handhold
See Handhold
Position Reference
on page 3

3/8" x 1-3/4"
Button Head Bolt
BAE0665
(4 Total)

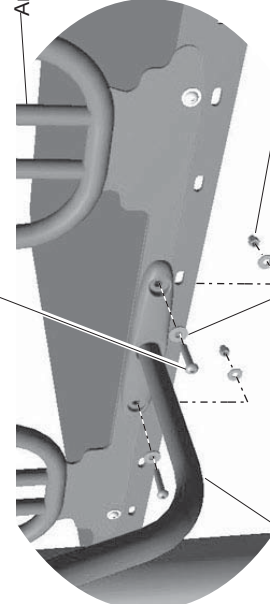
Detail G

Step 9
Attach the climber to the
arch entry barriers



3/8" x 1-1/2" Button Head Bolt
BAE06645
(4 Total)

Arch Entry Barrier



GEO Climber Frame

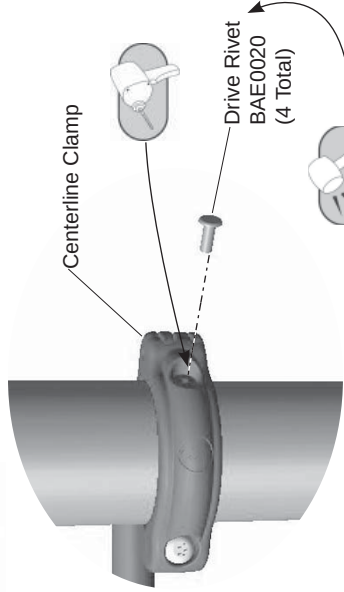
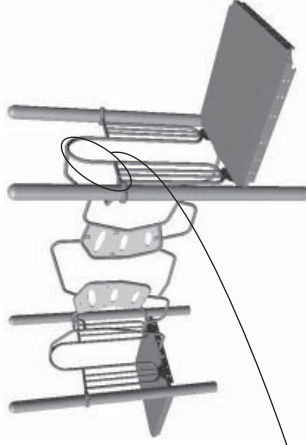
3/8" Lock Nut
BAE0620
(4 Total)

1" O.D. Flat Washer
BAE0600
(8 Total)



Detail H
Step 10
Attach the climber to the
decks

Note: If the barriers are attached to the lower holes in the deck, the climber must also be attached to the lower holes.

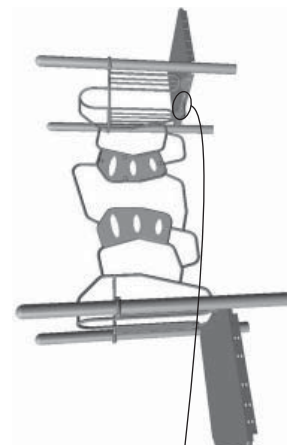
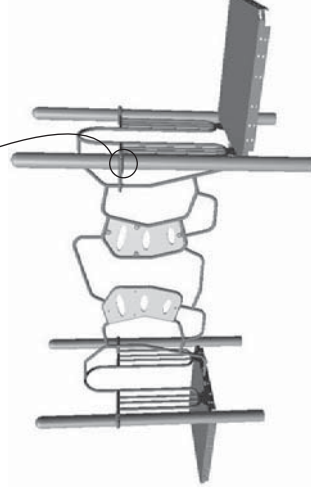


Centerline Clamp

Drive Rivet
BAE0020
(4 Total)

Detail I
Step 12

Secure the clamps to
the posts



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the climber.

Step 3: Attach the panels to the climber. See **Detail A**. Attach the panels to opposite sides of the climber as shown.

Step 4: Attach the mounting brackets to the climber. See **Detail B**. Attach the brackets to bottom rails on the climber as shown.

Step 5: Attach the handholds to the climber. See **Detail C**. Attach the handholds on opposite sides of the climber as shown.

Attach the clamps to the arch entry barriers.

Step 6: See **Detail D**. Attach the clamps to the arch entry barriers as shown. The hinges on the clamps should face the same direction.

Attach the arch entry barriers to the posts.

Step 7: See **Detail E** and **Top View**. Attach the barriers to the posts as shown. Position the barriers so the handhold connection hole in the barrier is on the same side as the handholds on the climber.

Attach the arch entry barriers to the decks.

Step 8: See **Detail F**. Attach the barriers to the decks as shown. The barriers can be attached to either the upper holes or the lower holes in the deck.

Attach the climber to the arch entry barriers.

Step 9: See **Detail G**. Attach the climber to the barriers as shown. Position the climber so the handholds are aligned with the connection hole in the each barrier.

Attach the climber to the decks.

Step 10: See **Detail H**. Attach the climber to the decks as shown.

Note: If the barriers are attached to the lower holes in the deck, the climber must also be attached to the lower holes.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM6700 - GEO BRIDGE CLIMBER

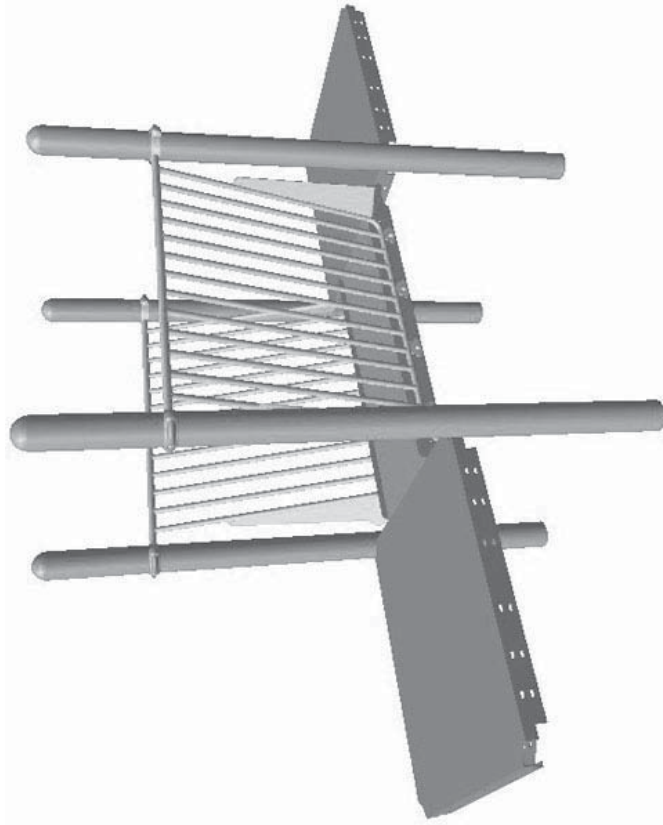
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0657	CASTING - CLIMBER DECK CONNECTION	2
AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/HOLE	2
AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	2
AFR0863	FRAME - GEO BRIDGE CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	6
BFC1330	SHEET - 18.89" x 33.64" INFILL	2



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Installation Instructions Playmakers® Model PM7080 6 ft. (1829 mm) Catwalk

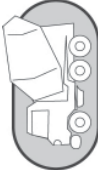
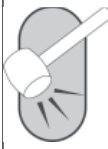
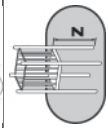


Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	*320.5 lbs. (145,7 kg)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

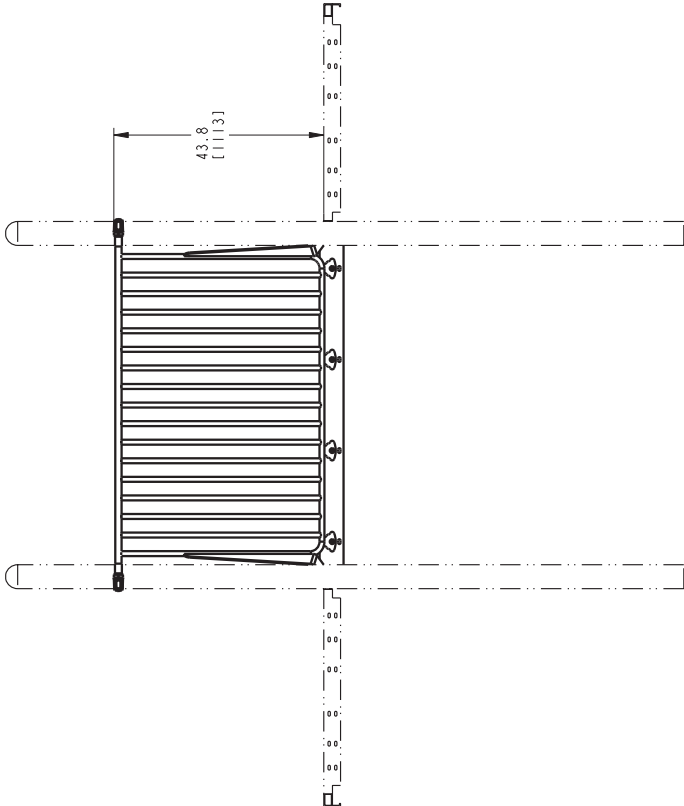
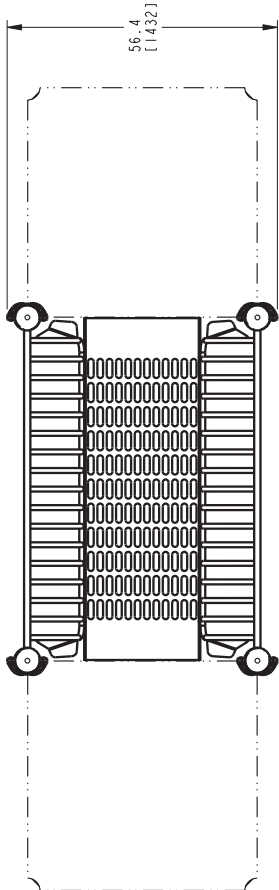
*Weights are approximate for determining manpower.

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

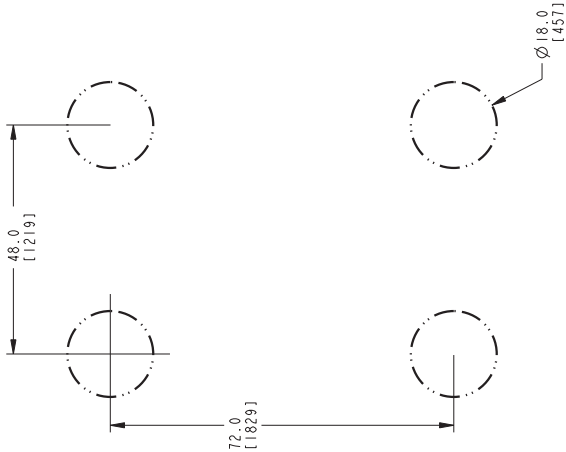
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Elevation Views



Footing Diagram

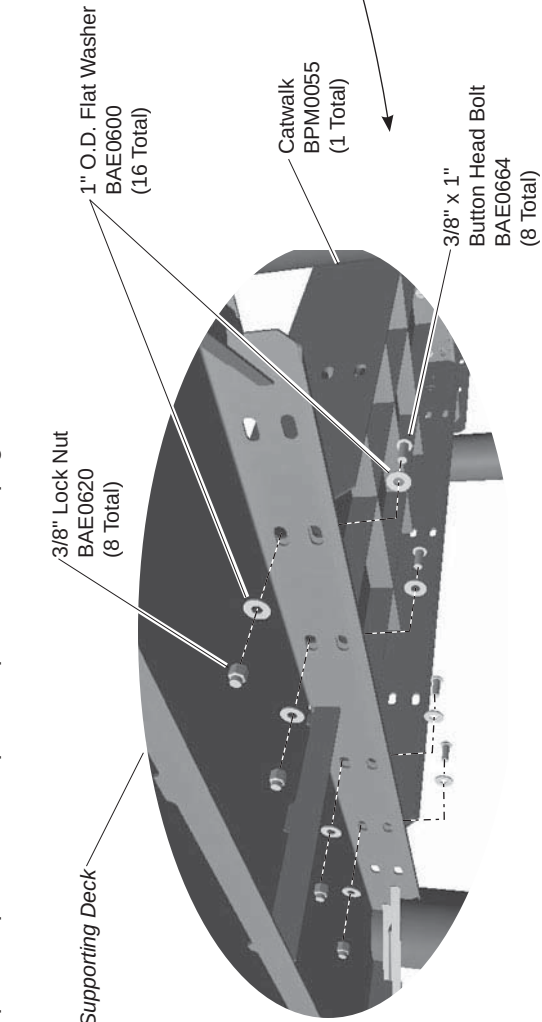


Equal to the height of the deck.



Installation Instructions

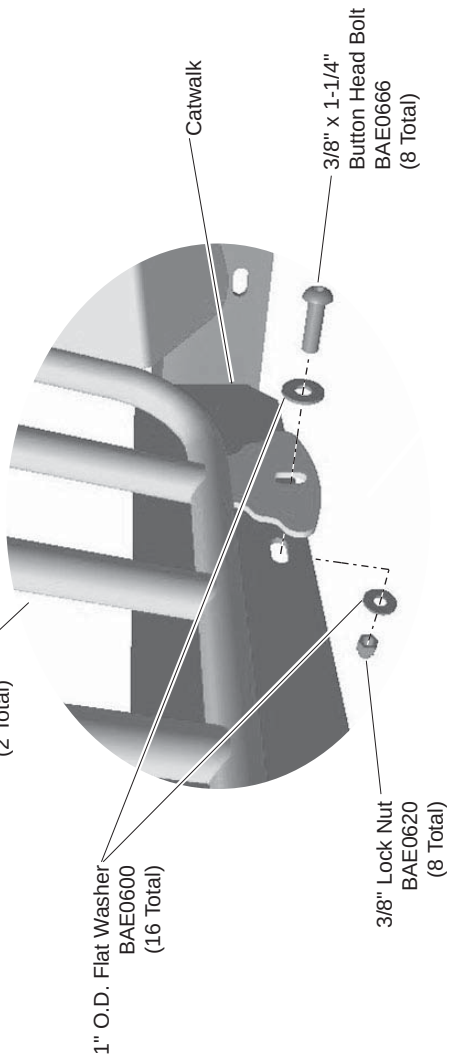
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3

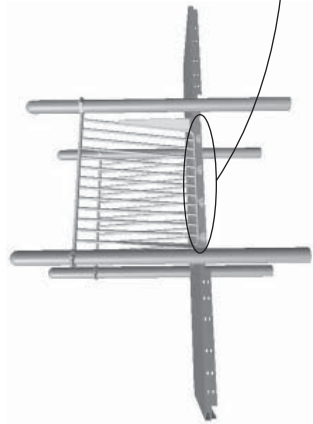
Attach the catwalk to the decks.

Catwalk Barrier
AEN0288
(2 Total)

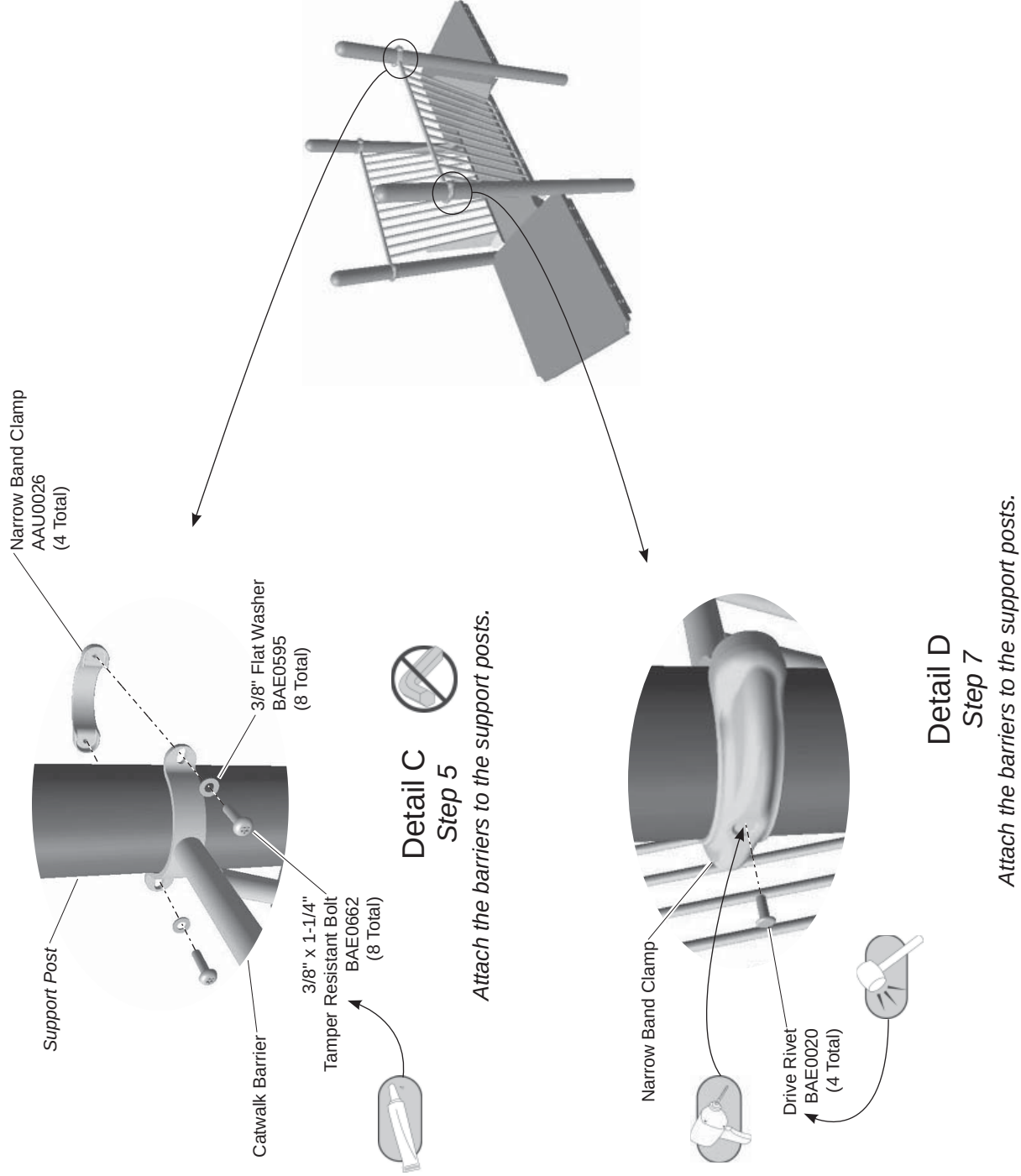


Detail B
Step 4

Attach the barriers to the catwalk.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the catwalk to the decks. See **Detail A**. Center the catwalk between the decks and attach as shown. Ensure the catwalk is flush against and level with the decks.

Step 4: Attach the catwalk barriers to the catwalk. See **Detail B**. Position the barriers with the clamp bands around the support posts and the barrier tabs aligned with the holes in the side of the catwalk. Attach the barrier to the catwalk as shown.

Step 5: Attach the catwalk to the support posts. See **Detail C**. Position each band clamp around the posts and against the barrier. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

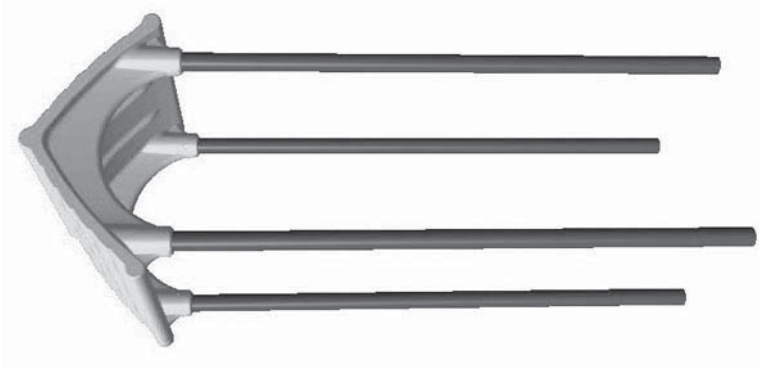
Note: This step should be executed after structure has been assembled and properly footed.

PM7080 - 6 ft. (1829 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0288	BARRIER - 71-7/16" x 46-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BPM0055	PLATFORM - 71.75" x 24.23" x 5"	1

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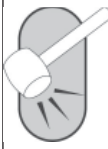
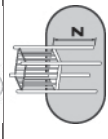


Assembly View

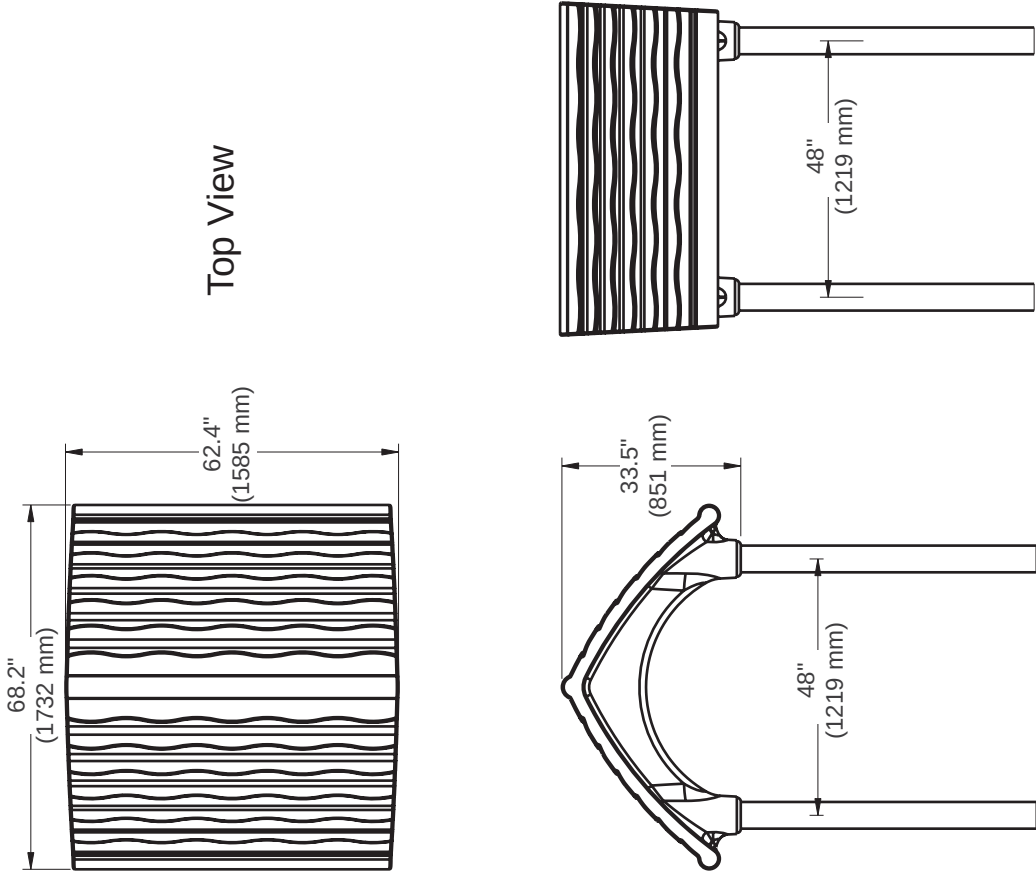
Installation Instructions Playmakers® Model PM9846 Cabana Roof

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

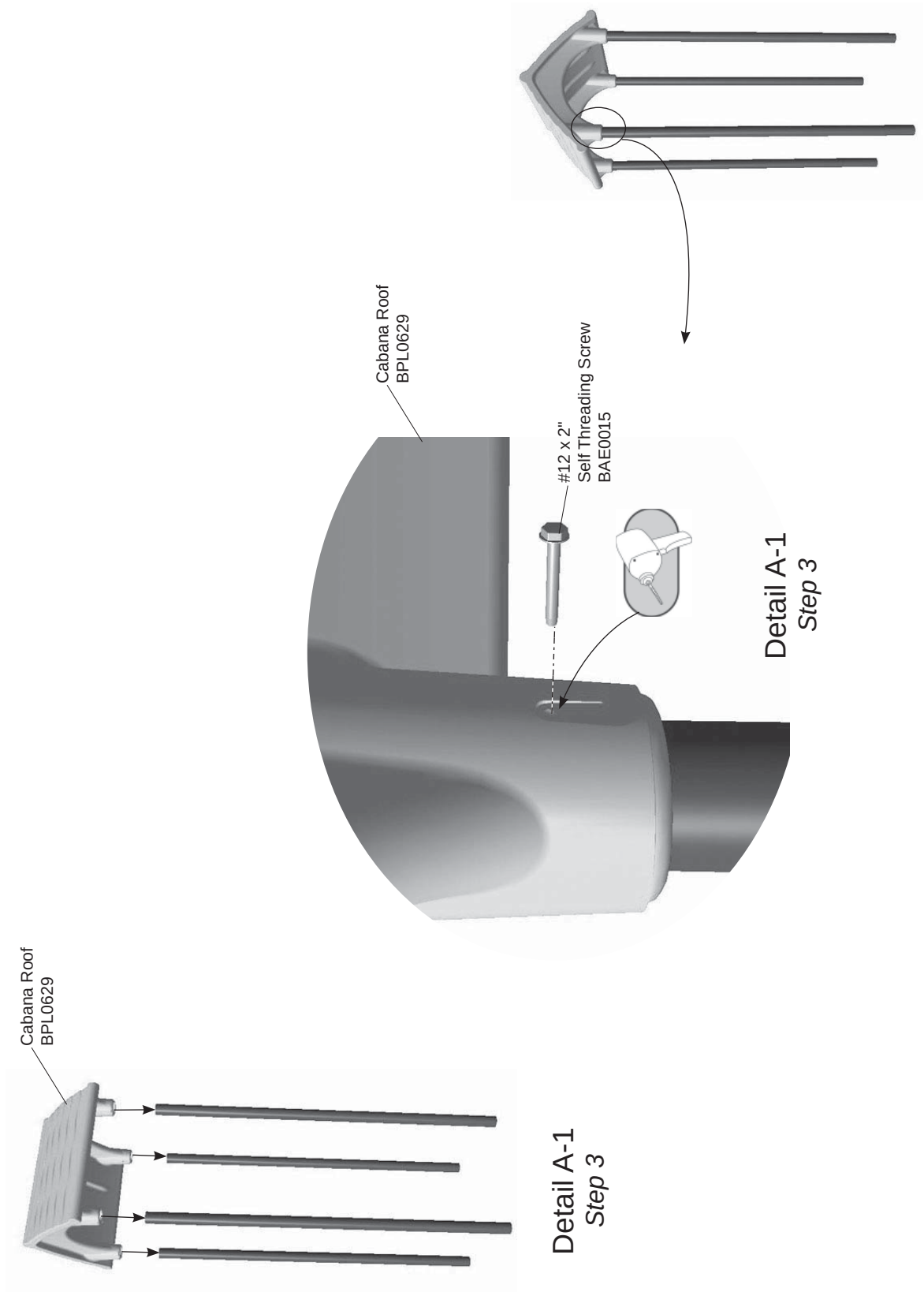


Elevation Views
ZZPM9846



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

___Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

___Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Bill of Materials

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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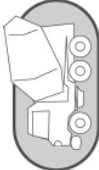
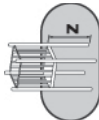
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

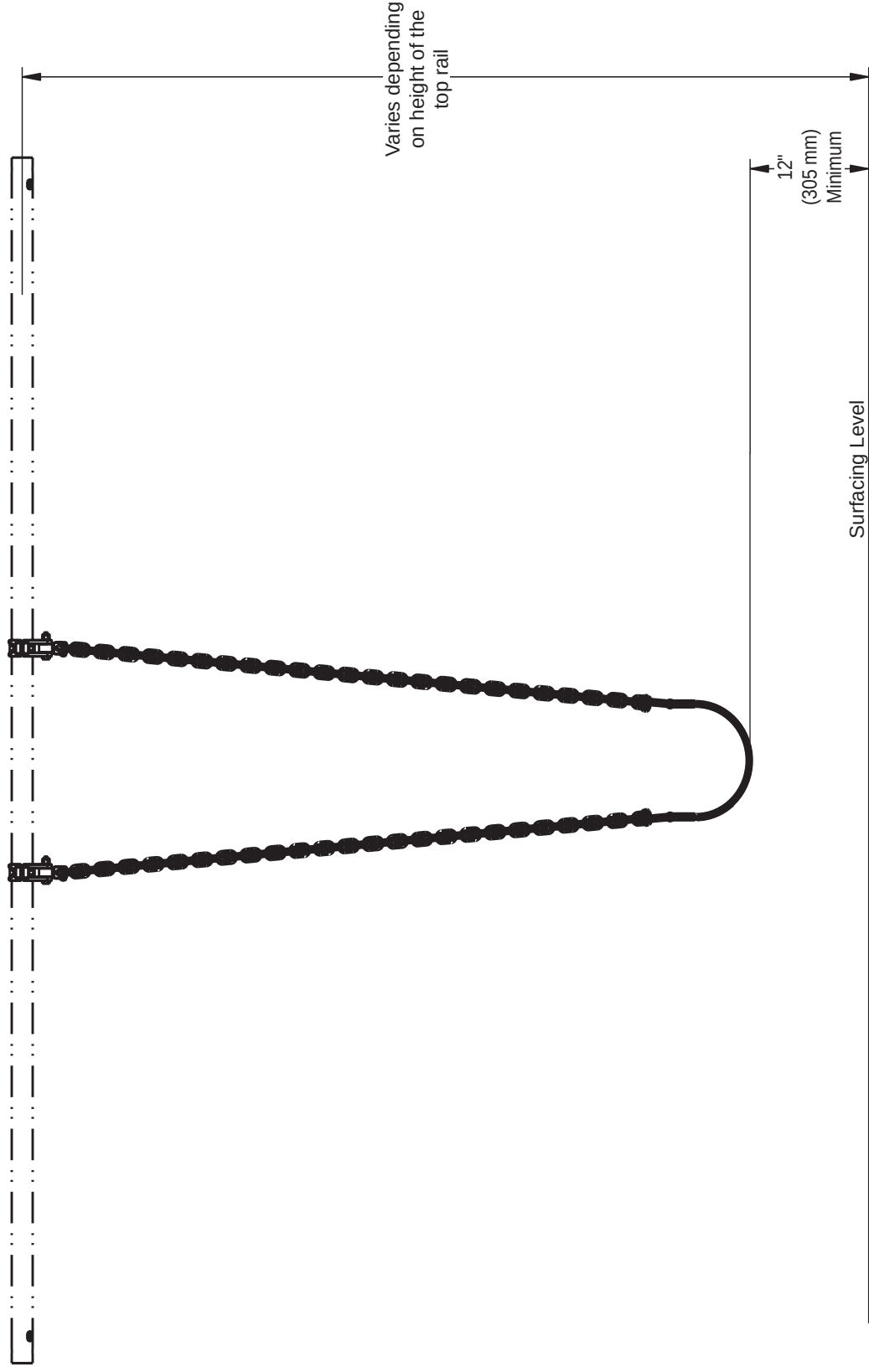
Installation Instructions Playworld Systems® Models XX0260, XX0261, & XX0324 Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

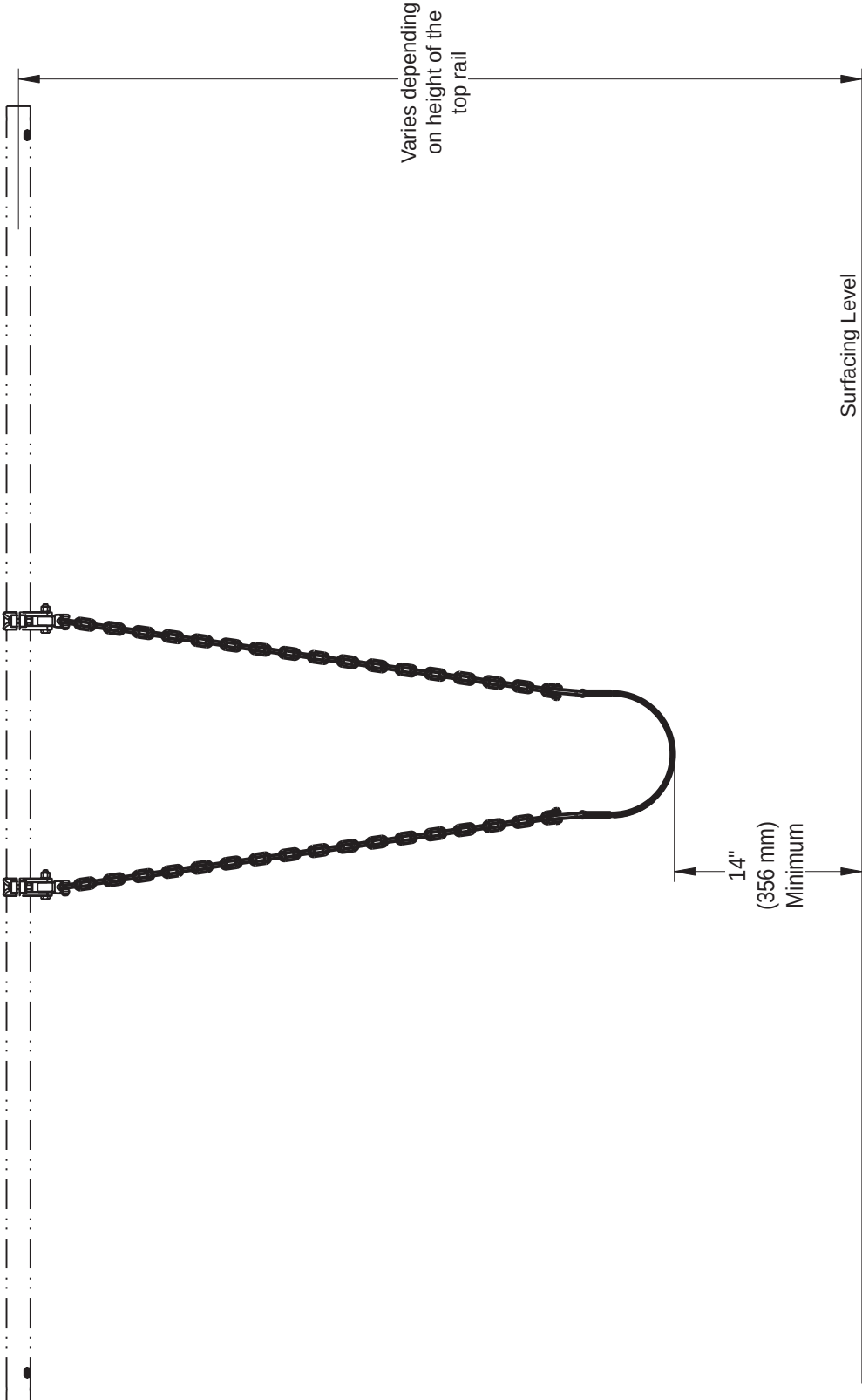


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



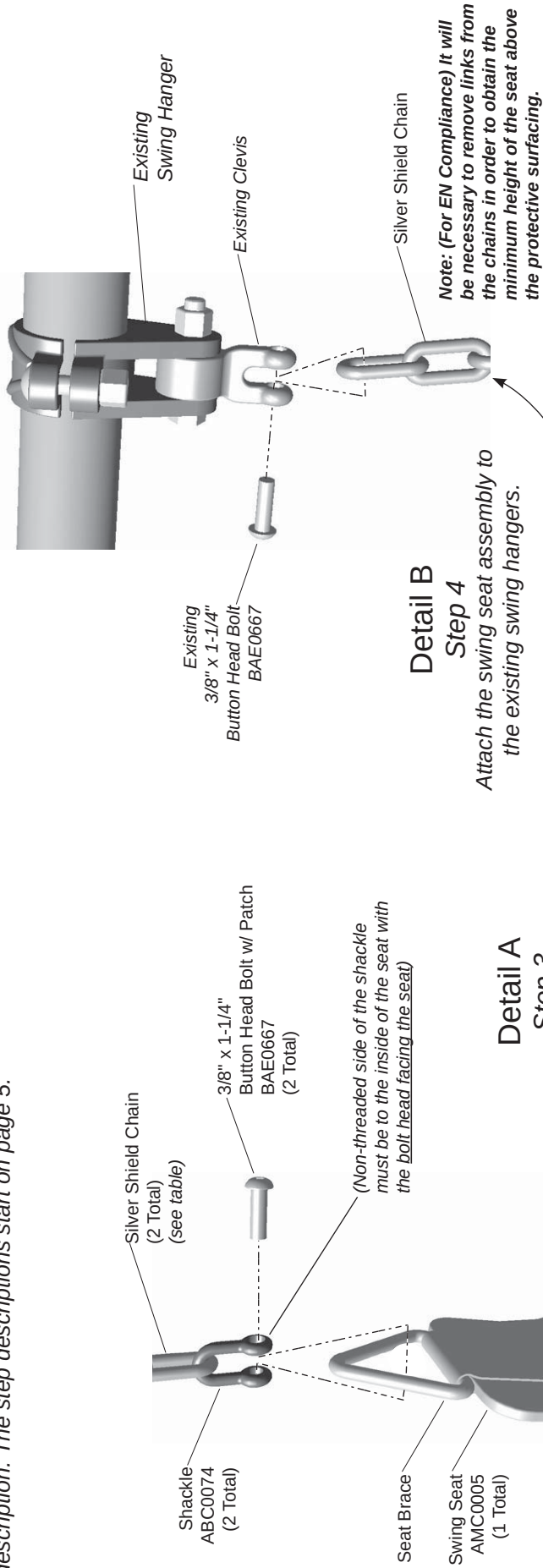
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3
Attach the swing seat to the swing chains.

Detail B
Step 4
Attach the swing seat assembly to the existing swing hangers.

Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.
Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

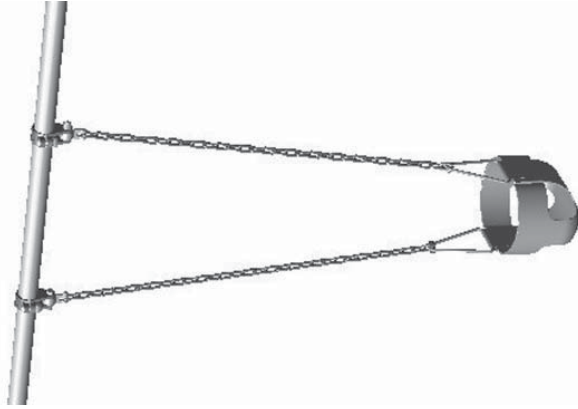
Date: ____ / ____ / ____





PLAYWORLD SYSTEMS®

The world needs play.™



Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

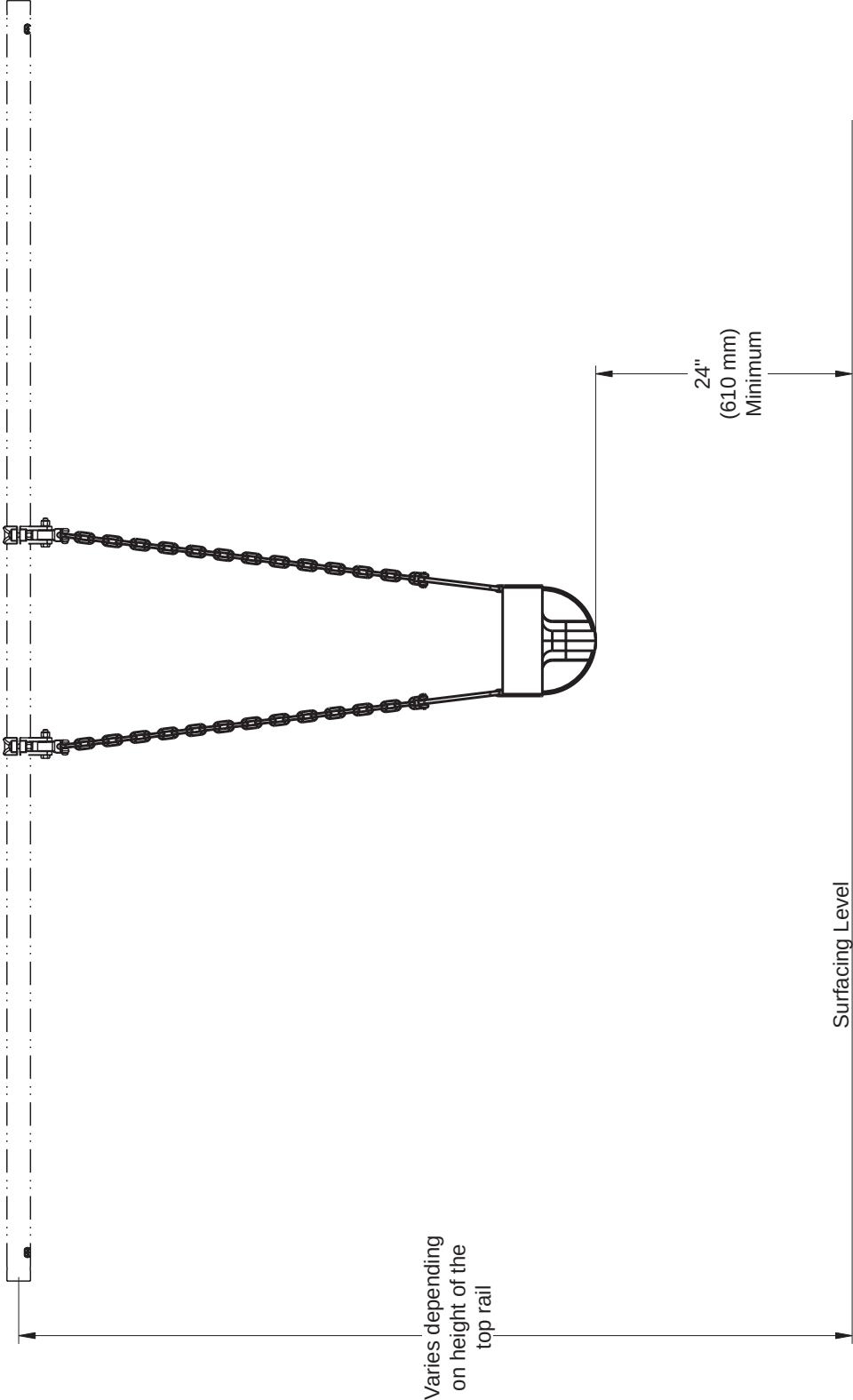
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions



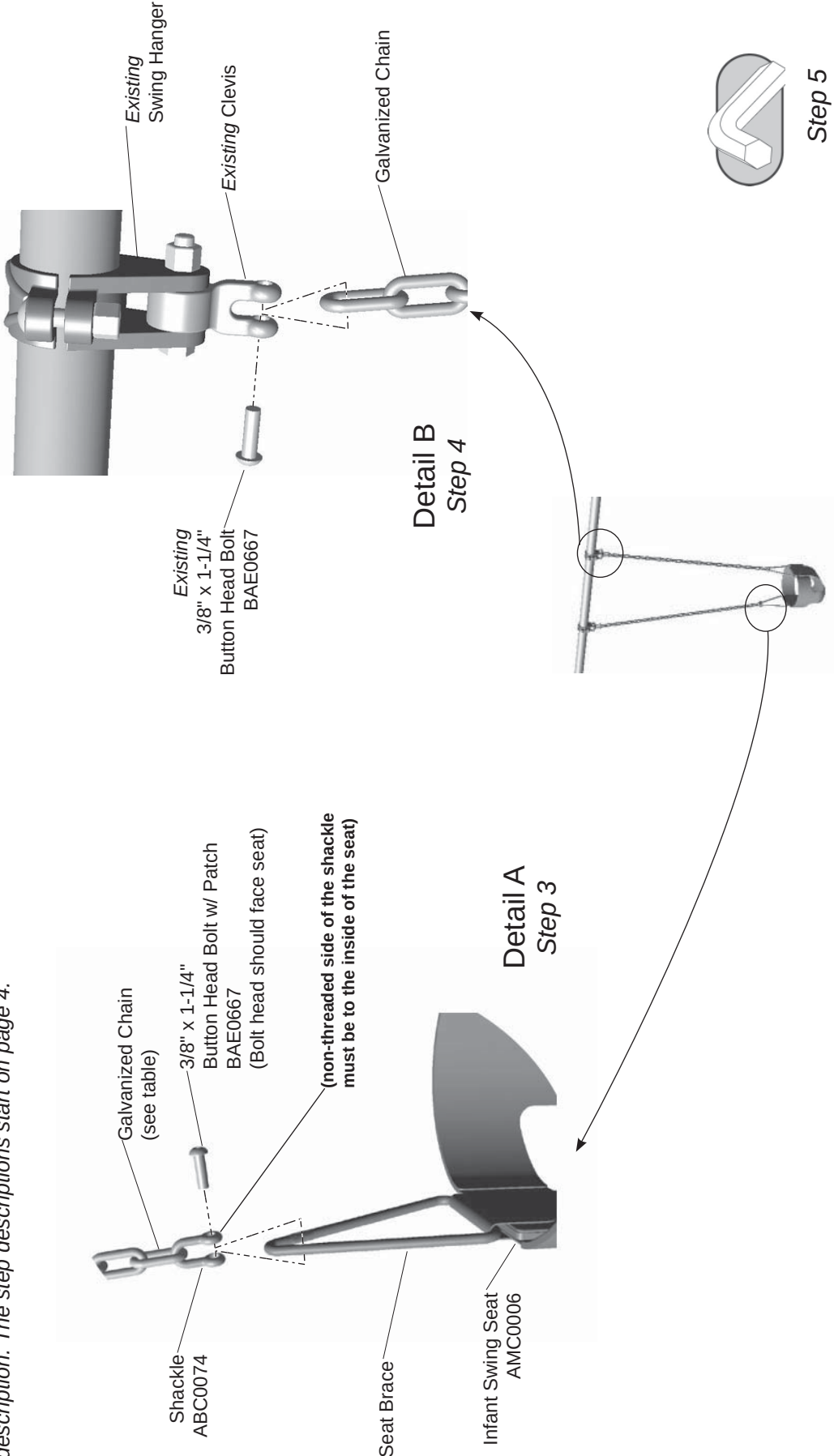
Elevation View

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

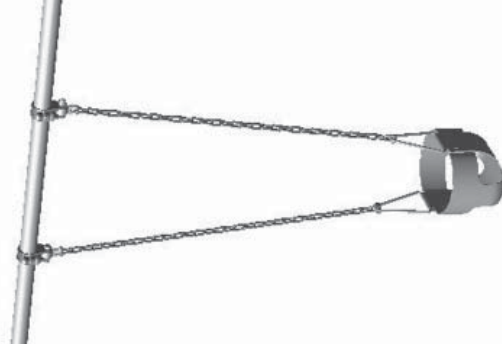
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Galvanized Chain



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

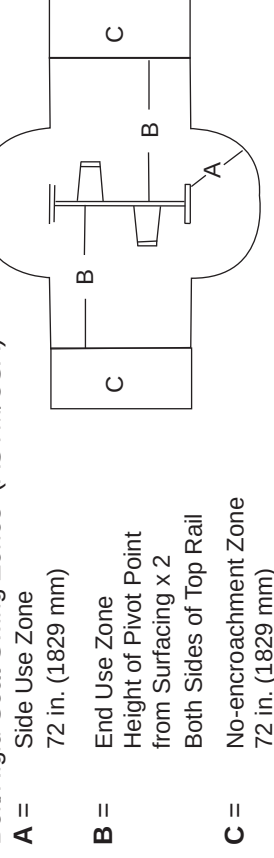
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

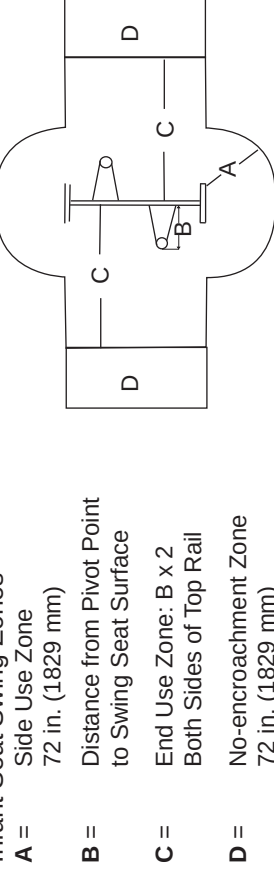
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



Installation Instructions

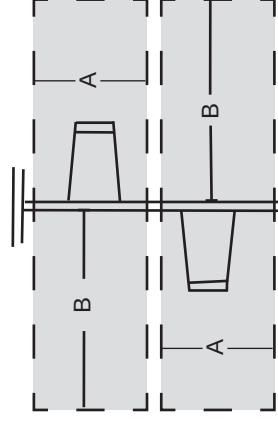
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

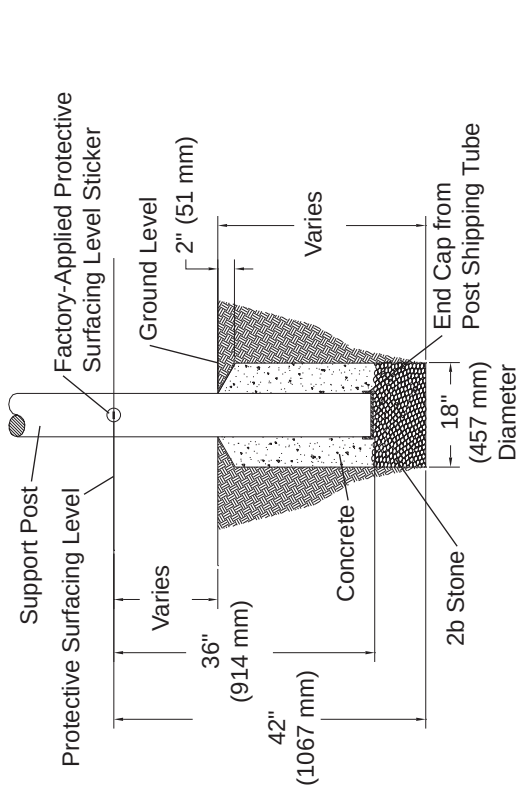
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

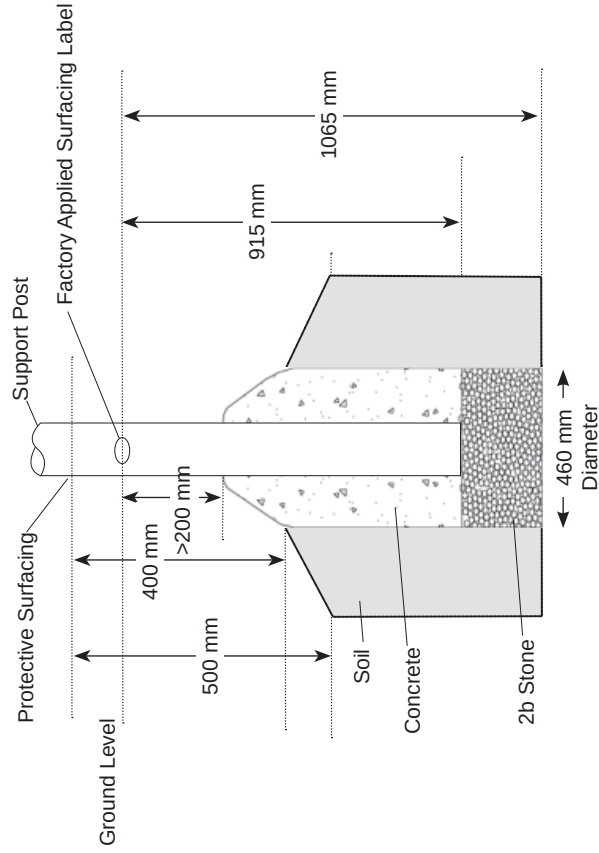
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

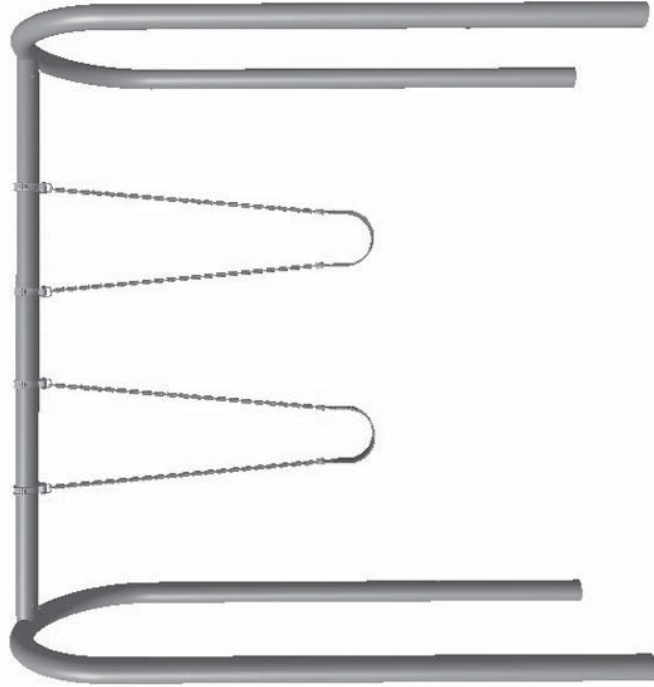
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



PLAYWORLD SYSTEMS®

The world needs play.™



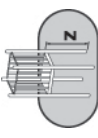
Assembly View (representative model)

Installation Instructions Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

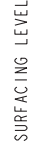
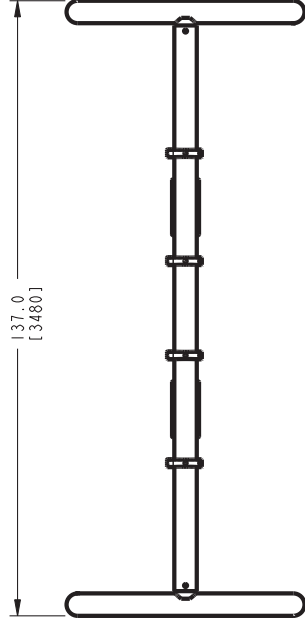
Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



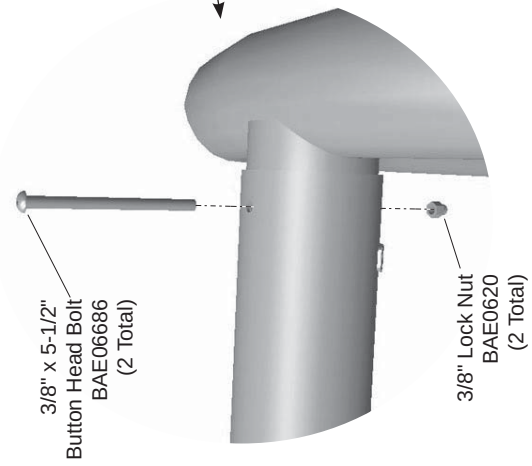
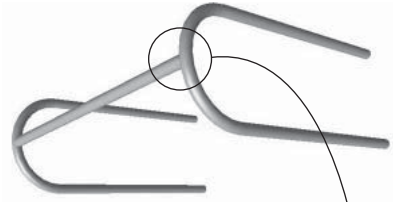
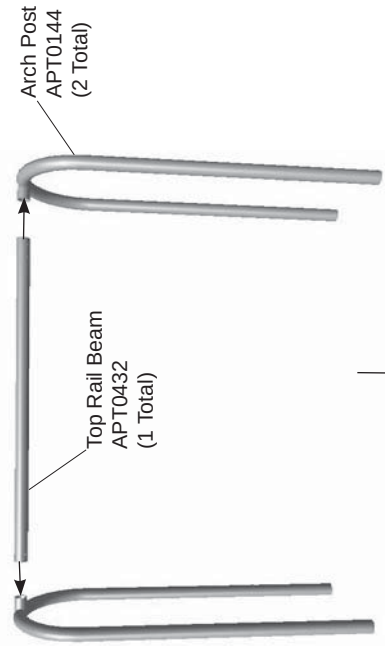
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above)



Elevation Views

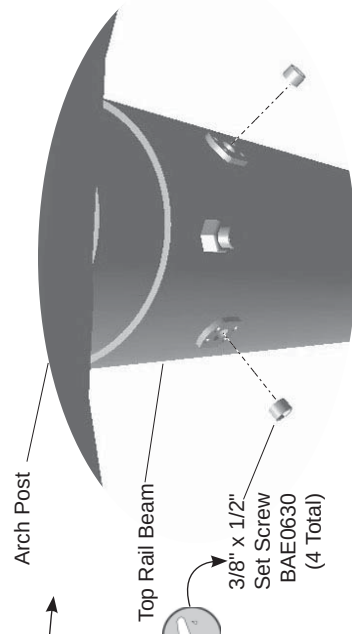
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the top rail to the arch posts.

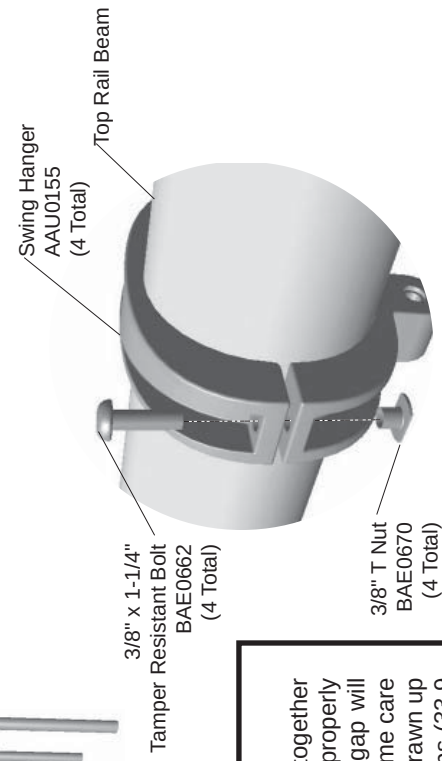


Underneath View



Detail B
Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Detail C
Step 8

Attach swing hangers to the top rail.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

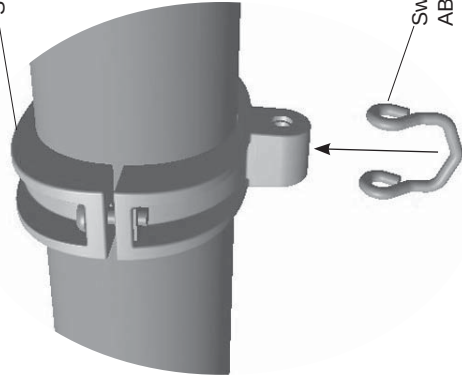
Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

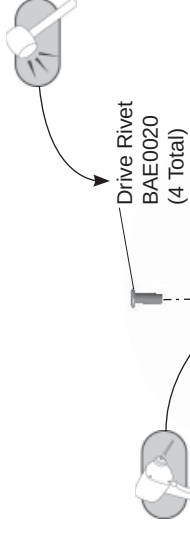
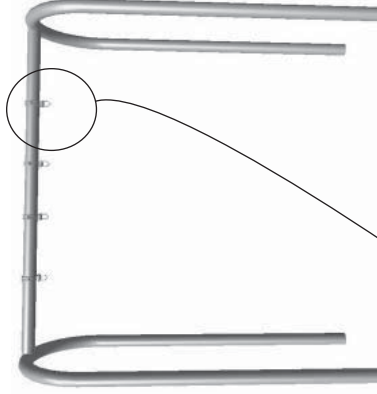


Installation Instructions

Swing Hanger

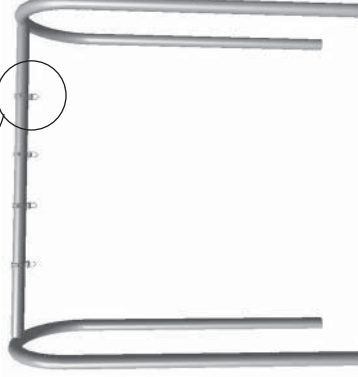


Swing Clevis Connector
ABC0704
(4 Total)



Drive Rivet
BAE0020
(4 Total)

Detail E
Step 12
*Secure the swing hangers
to the top rail.*



$\frac{3}{8}$ " x 2- $\frac{1}{2}$ "
Hex Head Shoulder Bolt
BAE0412
(4 Total)

$\frac{3}{8}$ " Thin Series Lock Nut
BAE0610
(4 Total)



Detail D
Step 9

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


**PLAYWORLD
SYSTEMS®**

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For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.

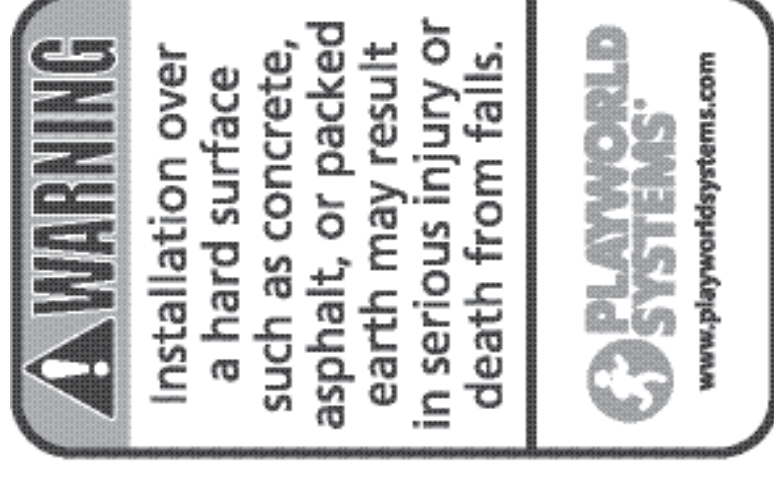
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

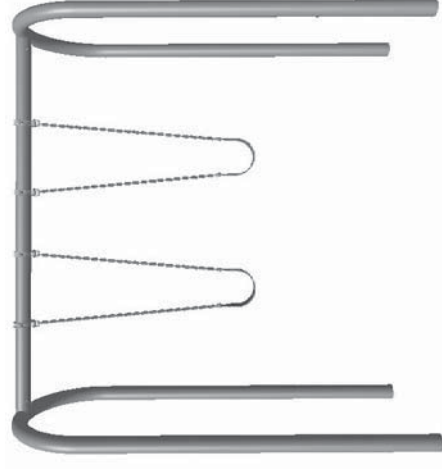
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing

8 ft. (2438 mm) Top Rail



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

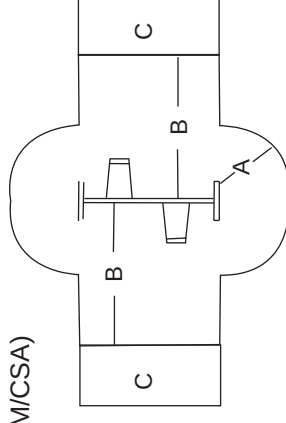
(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

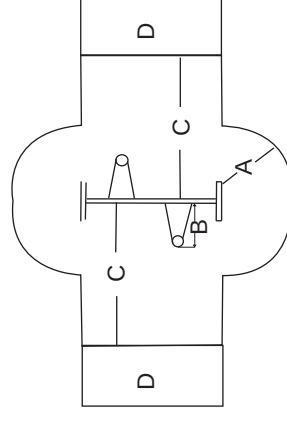
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

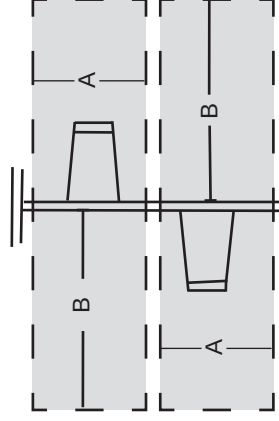
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

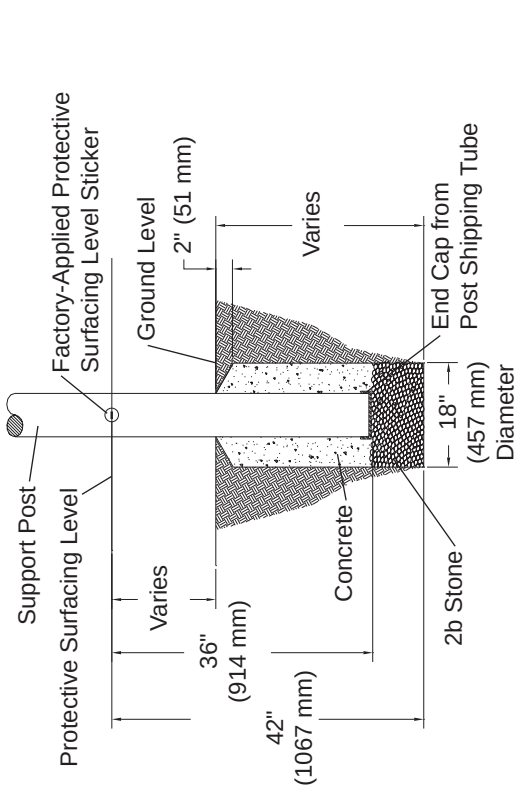
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

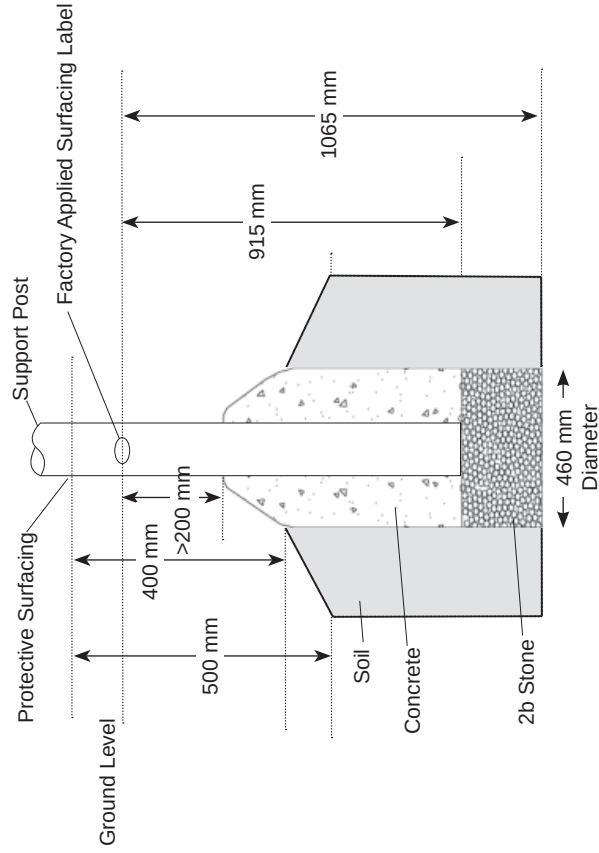
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems[®] Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

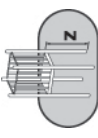


Assembly View

Installation Preparation

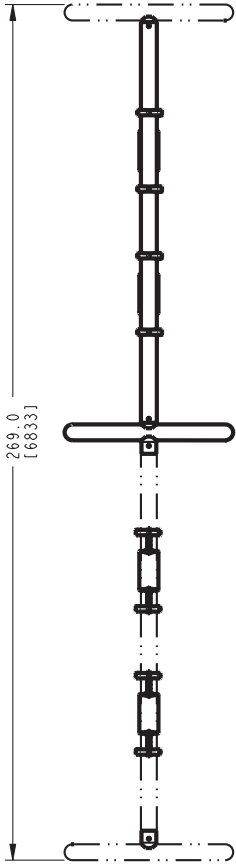
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

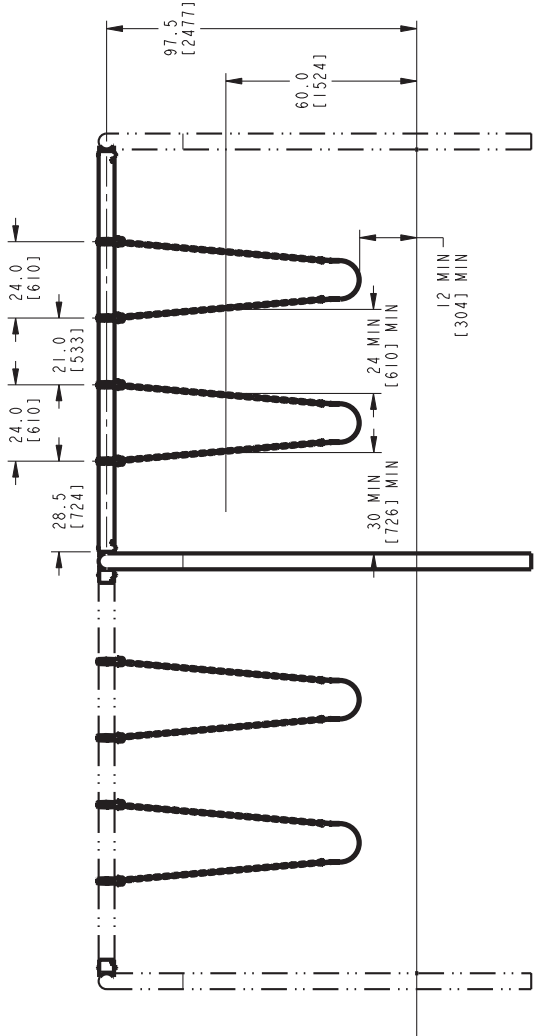
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

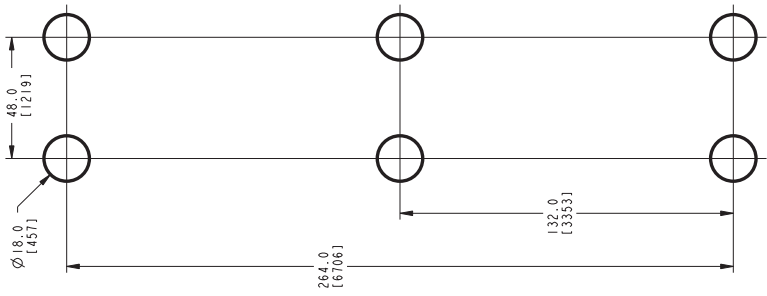
Top View



Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



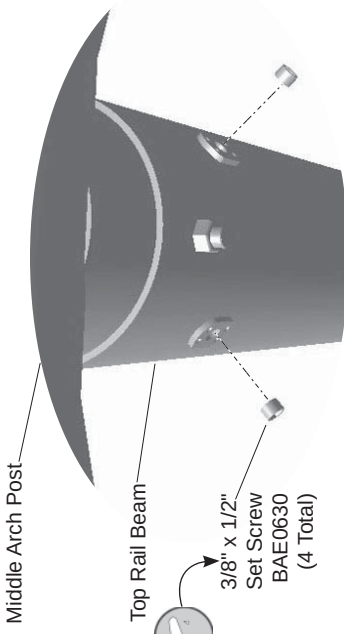
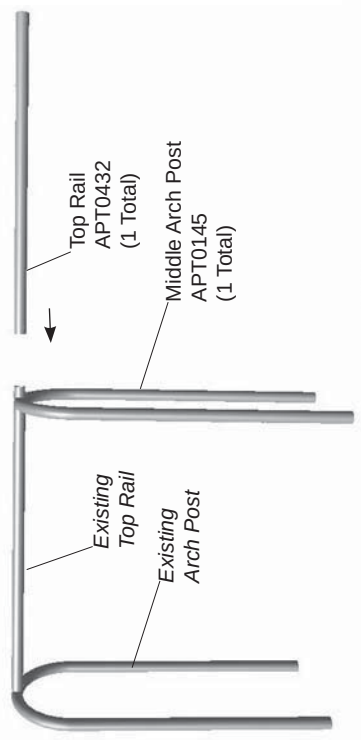
Elevation Views



Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

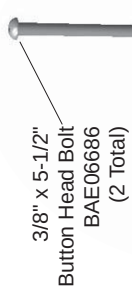
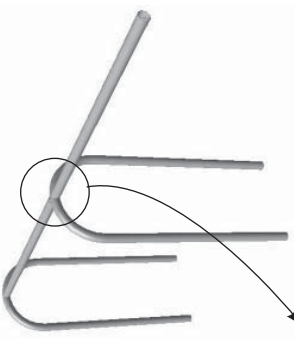


Underneath View

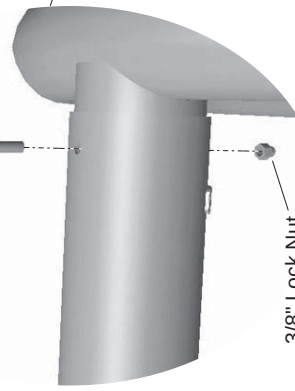
Detail B

Step 7

Secure the top rails to the middle arch post.



Middle Arch Post



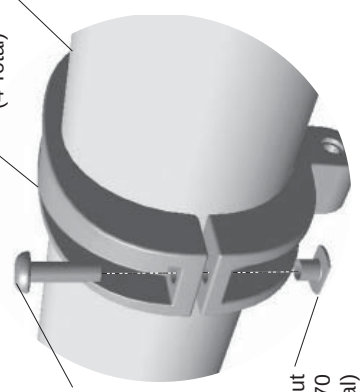
Detail A

Step 5

Attach both top rails (new and existing) to the middle arch support.



Swing Hanger
AAU0155
(4 Total)



3/8" x 1-1/4"
Tampor Resistant Bolt
BAE0662
(4 Total)

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Detail C

Step 10

Attach swing hangers to the top rail.

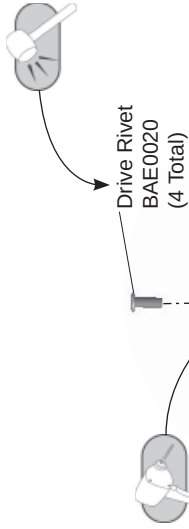


When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



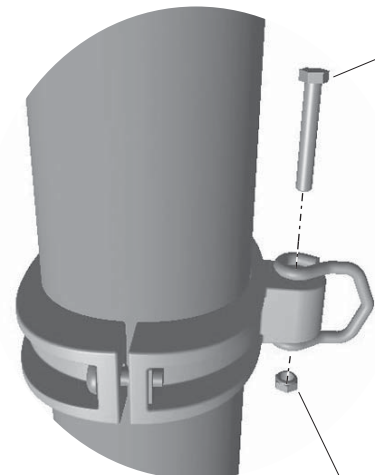
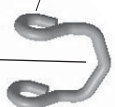
Installation Instructions

Swing Hanger



Drive Rivet
BAE0020
(4 Total)

Swing Clevis Connector
ABC0704
(4 Total)



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11

Attach each clevis to a swing hanger.

Detail E
Step 14
Secure the swing hangers to the top rail.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

**PLAYWORLD
SYSTEMS®**

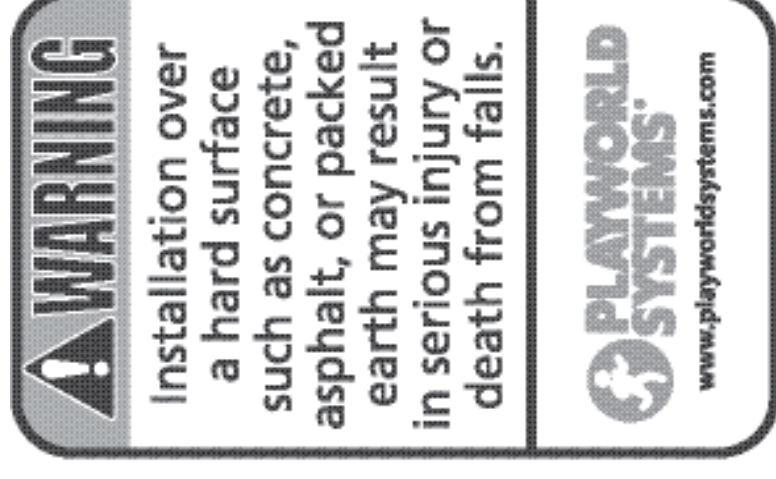
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800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

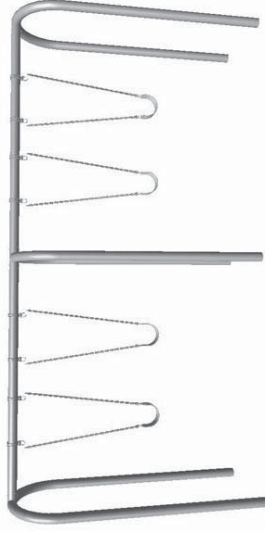
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



SAUK CREEK PARK

MANUFACTURERS' INSTALLATION INFORMATION

SAUK CREEK PARK

MADISON, WI

OPTION #1

ER
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



VIEW A

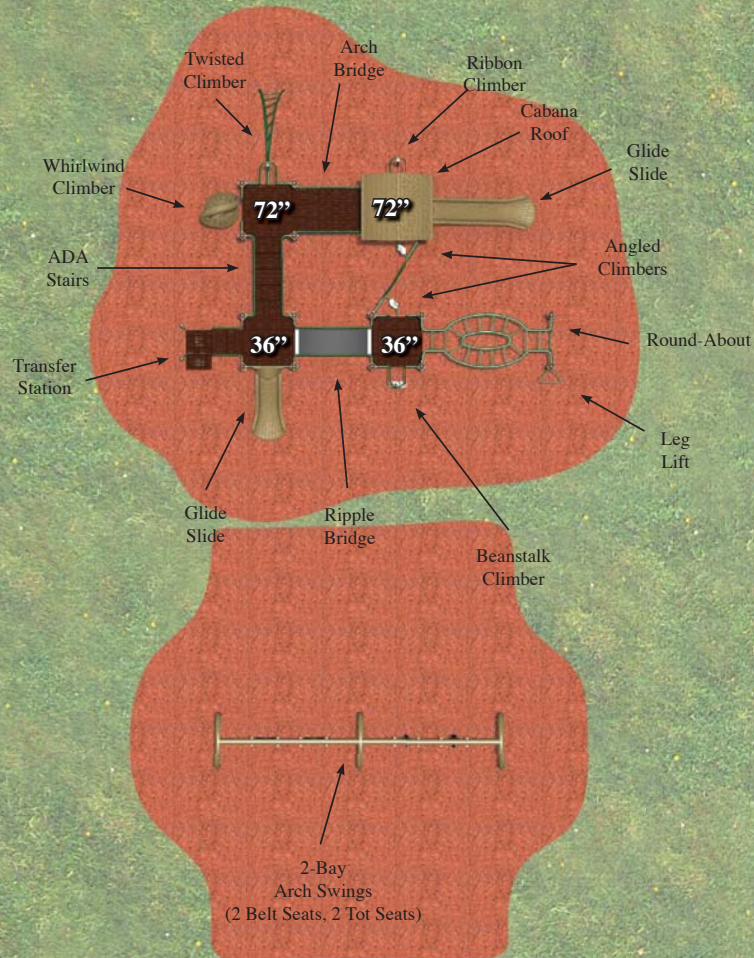


VIEW B

SAUK CREEK PARK

MADISON, WI

OPTION #1



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW121113

Use Zone:

of Users: 47

of Active Play Events: 14

Colors Shown:



**PLAYWORLD
SYSTEMS®**
The world needs play.®

Sauk Creek

Design Number: 13 - Compliance and Technical Data
Reference Document: ASTM F1487

Installation hours have been provided by manufacturer for information only, and are not to be assumed to be the actual time required to install parts. The Contractor will not be compensated to discrepancies between manufacturers estimated install hours and Contractor's actual install hours.

Ref. No.	Part No.	Qty.	Description	Unit Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0
5	ZZPM0016	5	5in OD X 120in STEEL POST W/ RIVETED CAP	Certified	335.55		497	0	5.00	0.65	0
6	ZZPM0026	4	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	296.84		434	0	4.00	0.48	0
7	ZZPM0036	1	5in OD X 144in STEEL POST W/ RIVETED CAP	Certified	80.91		117	0	1.00	0.13	0
8	ZZPM0046	4	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	350.84		506	0	4.00	0.52	0
9	ZZPM0079	4	5in OD x 205in STEEL POST W/O CAP	Certified	454.84		618	0	4.00	0.52	0
10	ZZPM0616	4	SQUARE COATED DECK ASSEMBLY	Certified	361.44		882	16	4.00	0.00	0
11	ZZPM2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	155.24		329	2	2.00	0.09	0
12	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83		72	1	1.00	0.04	0
13	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44		678	2	2.00	0.03	1
14	ZZPM3127	1	GLIDE SLIDE (36in DECK)	Certified	111.54		399	2	2.00	0.03	1
15	ZZPM8090	1	SLIDING POLE (72in DECK)	Certified	71.37		178	1	1.00	0.03	1
16	ZZPM4288	1	ACCESS GATE	Certified	34.38		92	0	0.50	0.00	0
17	ZZPM7160	1	6ft TWISTED CLIMBER	Certified	128.99		256	2	2.00	0.60	1
18	ZZPM7179	1	ANGLED CLIMBER SMALL (36in DECK)	Certified	73.03		201	2	1.00	0.00	1
19	ZZPM7196	1	ANGLED CLIMBER LARGE (72in DECK)	Certified	81.33		213	2	1.00	0.00	1
20	ZZPM8100	1	BEANSTALK CLIMBER (36in DECK)	Certified	80.97		287	2	1.50	0.03	1
21	ZZUN6740	1	WHIRLWIND CLIMBER 72in	Certified	189.86		858	2	2.50	0.23	1



Sauk Creek

Design Number: 13 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
22	ZZPM5770	1	LEG LIFT	Certified	7.20		33	1	0.50	0.00	1
23	ZZPM5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	26.16		77	1	1.50	0.06	0
24	ZZPM6966	1	10ft ROUNDABOUT HORIZONTAL LADDER	Certified	147.86		317	3	1.00	0.00	1
25	ZZPM6590	1	6ft ARCH BRIDGE	Certified	205.29		445	3	1.50	0.00	1
26	ZZPM8480	1	6ft RIPPLE BRIDGE	Certified	162.32		623	4	2.00	0.00	1
27	ZZPM9846	1	CABANA ROOF	Certified	123.05		527	0	0.50	0.00	0
28	ZZPM9177	1	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	286.99		640	2	1.50	0.00	0
Totals:					4,363.89	673	1,414	52	54.00	4.22	16
					1,963.75 Kg	303 Kg	636 Kg	12 Metric Tons		3.21 m3	

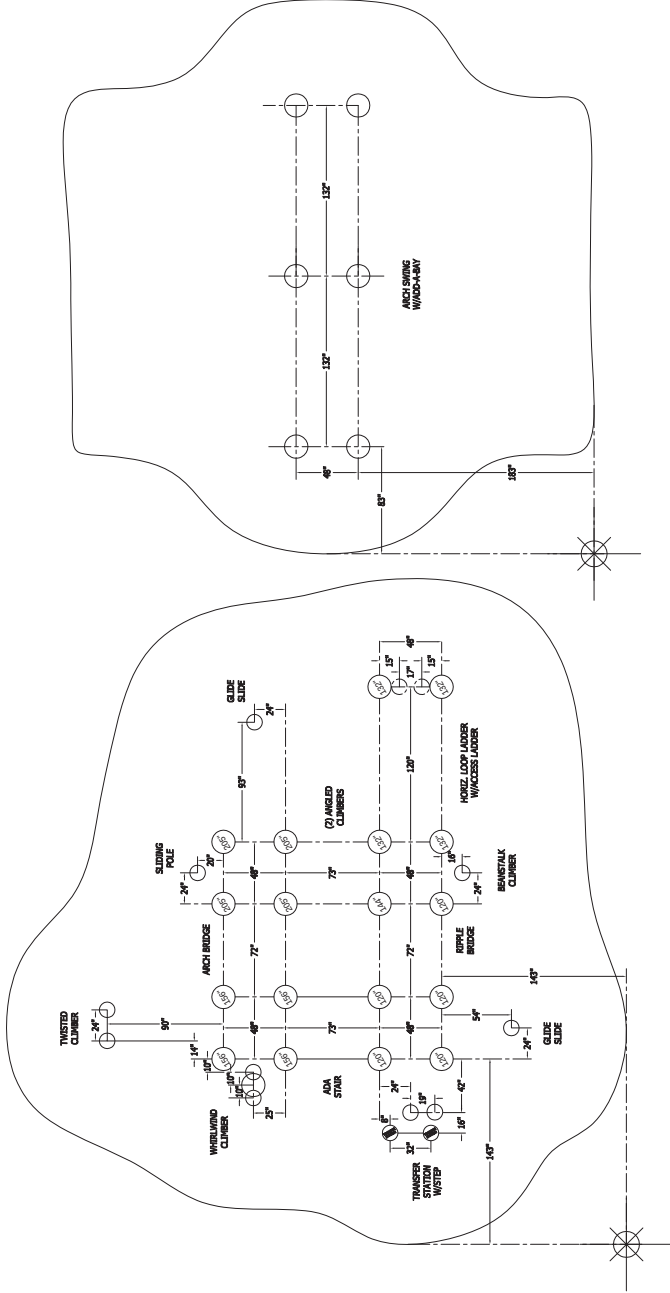
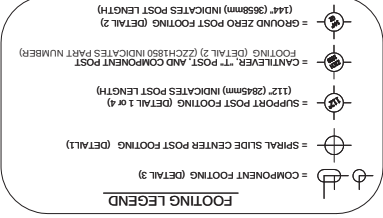


SAUK CREEK

PLAYWORLD
LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

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PROJECT NO: LEE-FTD1		SYSTEM: CHALLENGERS		FOOTING PLAN	
DATE:	03-MAR-14	SCALE:	1/8" = 1'-0"	DRAWN BY:	DANA GRUBBS
REV:	-				



Footing plan reflects location of footings relative to structure ONLY. Footing plan does not reflect location of placement of structure in field. Refer to site plans for placement of structure.

*Playground Supervision Required



Assembly View (representative model)

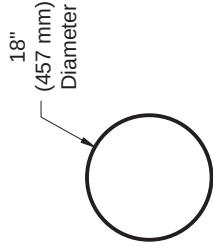
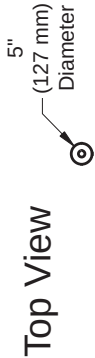
Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

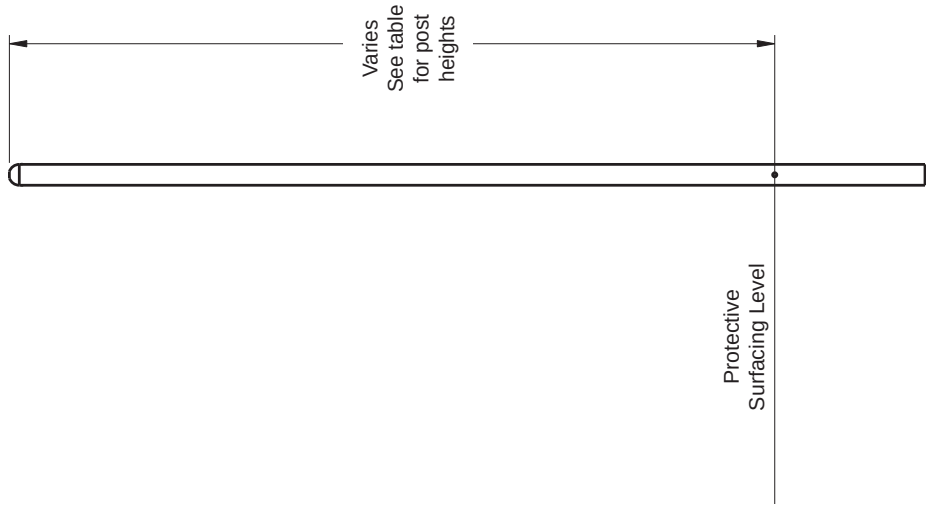
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24.4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27.2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34.2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34.2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36.4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49.5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41.6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46.8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53.6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49.5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51.8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Elevation View



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)			PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5006	DESCRIPTION POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5020	DESCRIPTION POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)			PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)		
PART NO. CAP5008	DESCRIPTION POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5022	DESCRIPTION POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)			PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)		
PART NO. CAP5010	DESCRIPTION POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5062	DESCRIPTION POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)			PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)		
PART NO. CAP5012	DESCRIPTION POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP0424	DESCRIPTION POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)			PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO. CAP5014	DESCRIPTION POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP0426	DESCRIPTION POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)					
PART NO. CAP5016	DESCRIPTION POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	QTY. 1			
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)					
PART NO. CAP5018	DESCRIPTION POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	QTY. 1			

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570-522-9800 OUTSIDE U.S.

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Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)

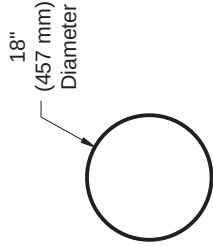
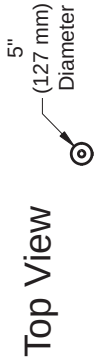


Assembly View (representative model)

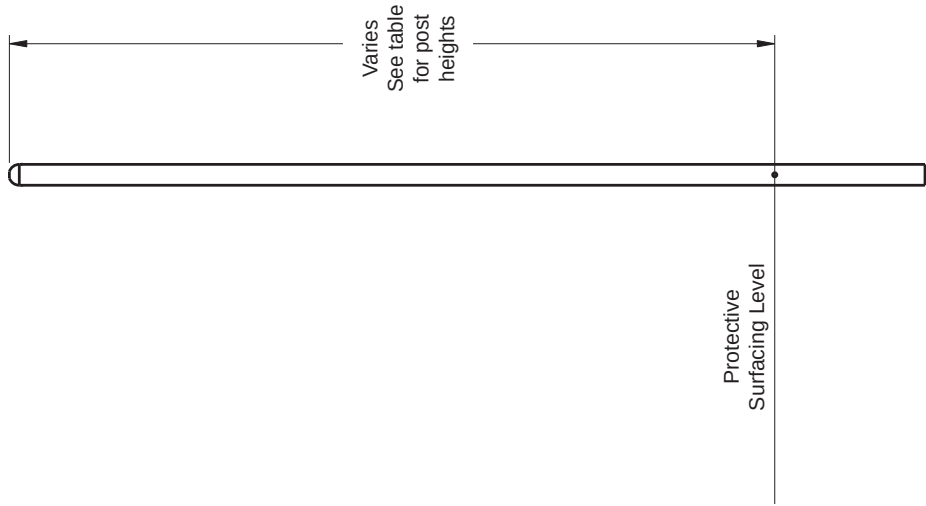
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Model	Post Height	Weight
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ZZPM0016	120" (3048 mm)	67.1 lbs. (34.2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34.2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36.4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49.5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41.6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46.8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53.6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49.5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51.8 kg)
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Elevation View



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)



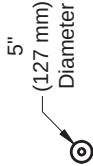
Assembly View (representative model)

Installation Preparation

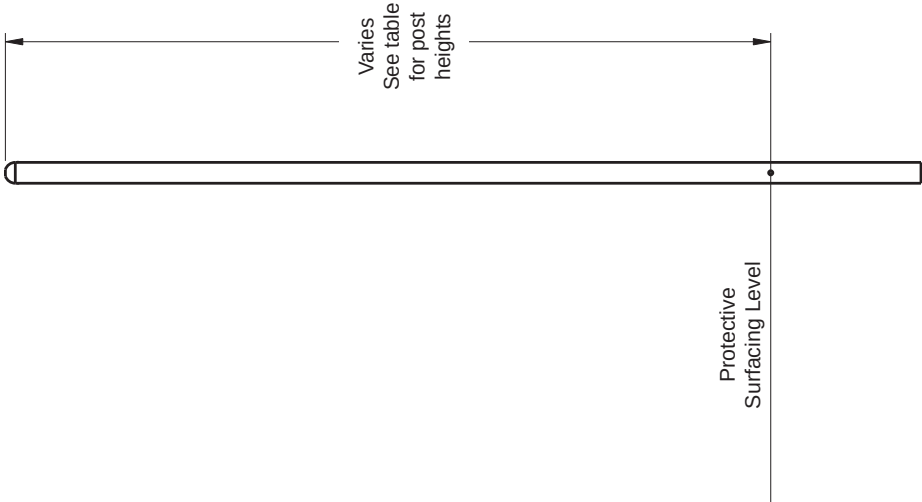
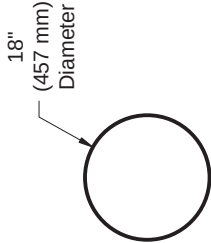
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Elevation View



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

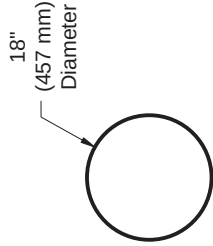
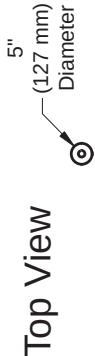


Assembly View (representative model)

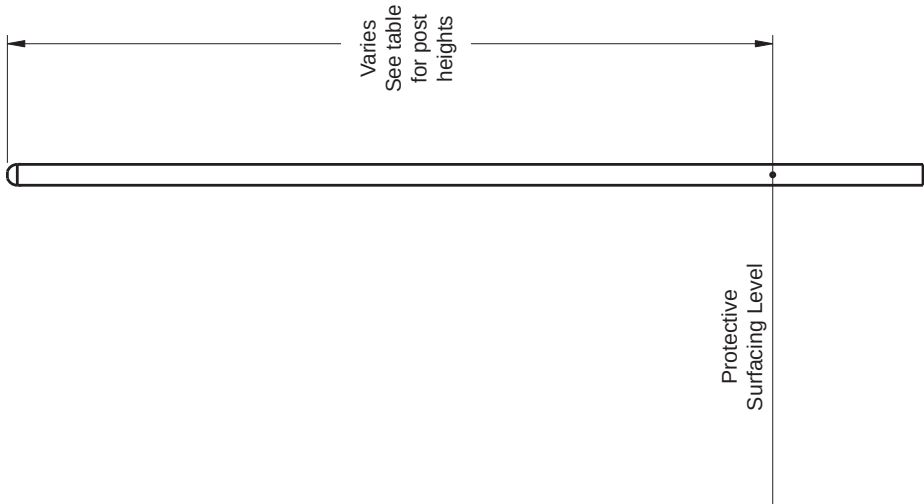
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24,4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34,2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34,2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36,4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49,5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41,6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46,8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53,6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49,5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51,8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)				PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	1		CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	1	
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)				PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	1		CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)				PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	1		CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	1	
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)				PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	1		CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	1	
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)				PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	1		CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	1	
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	1					
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)							
PART NO.	DESCRIPTION	QTY.					
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	1					



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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



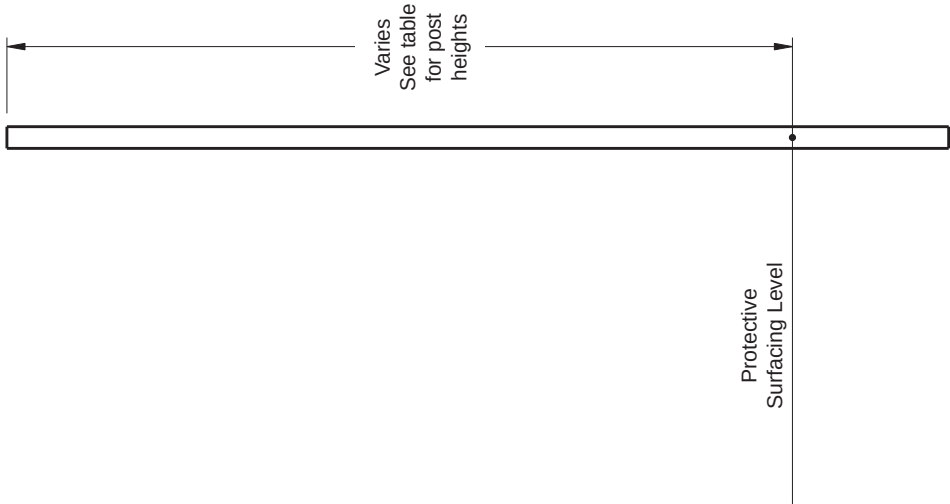
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

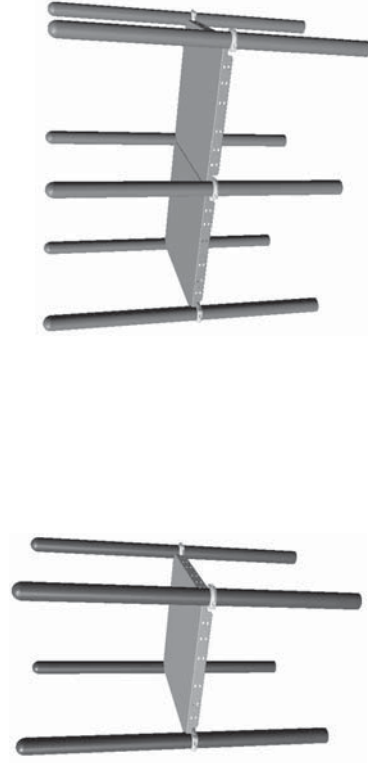
Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck

ZZPM0629
Long Deck

Assembly View

Installation Preparation

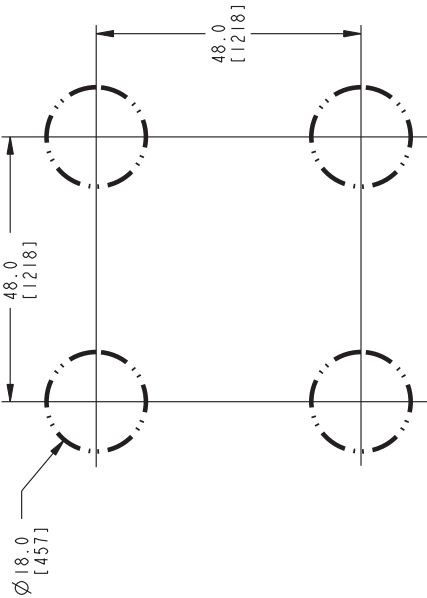
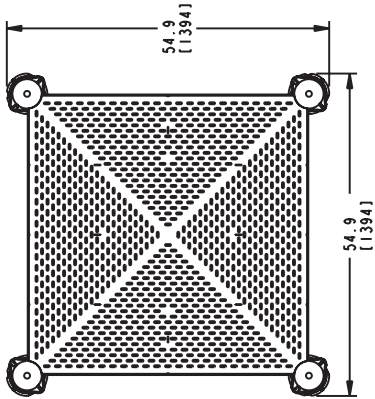
Recommended Crew (PM0616): Two (2) adults
 Recommended Crew (PM0629): Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	
		Add 1 Drop of Thread Locking Adhesive
		Pour Concrete
		Dig Footing Holes
		Critical Fall Height

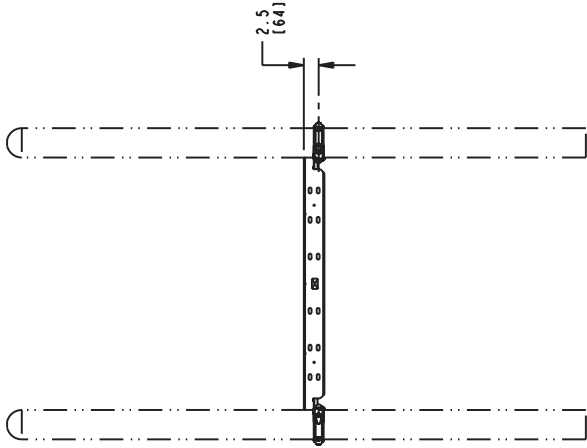
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



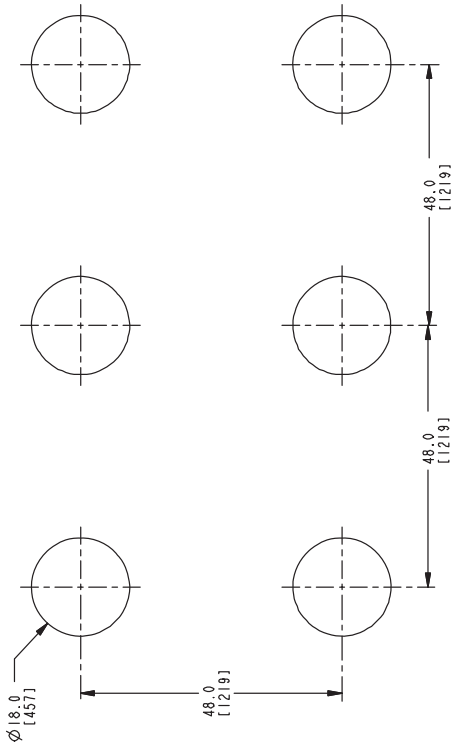
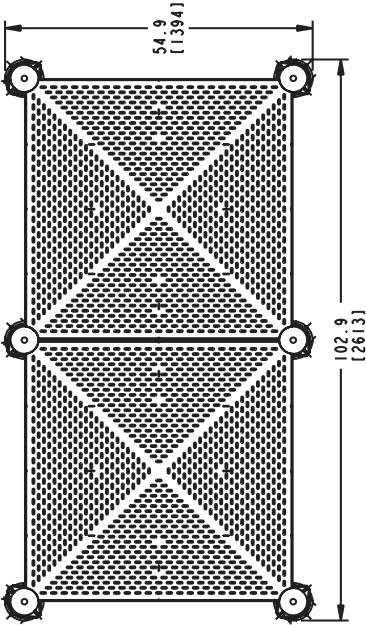
Elevation View
Model PM0616



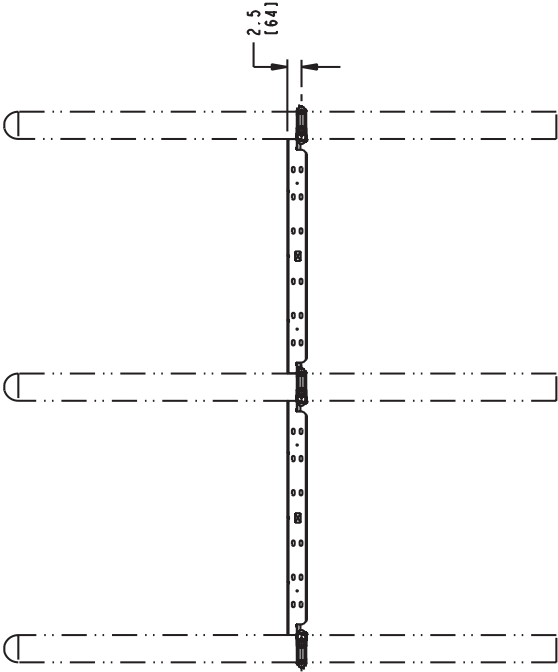
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	Millimeters	

Top View



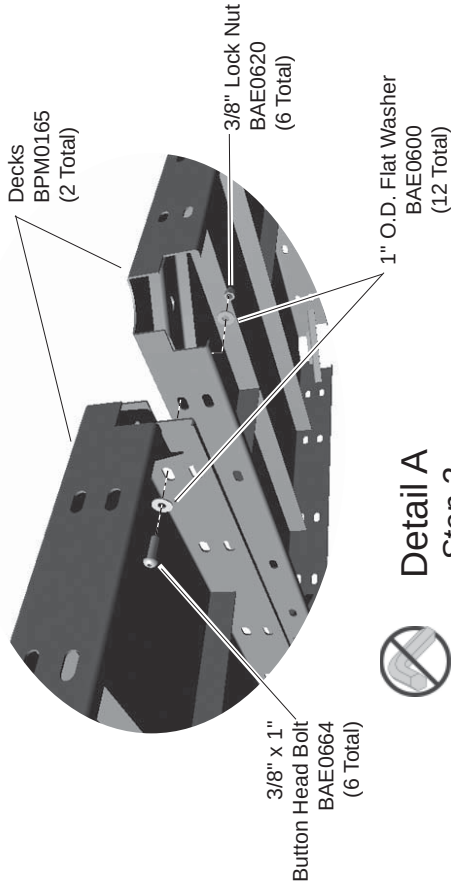
Footing Diagram



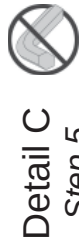
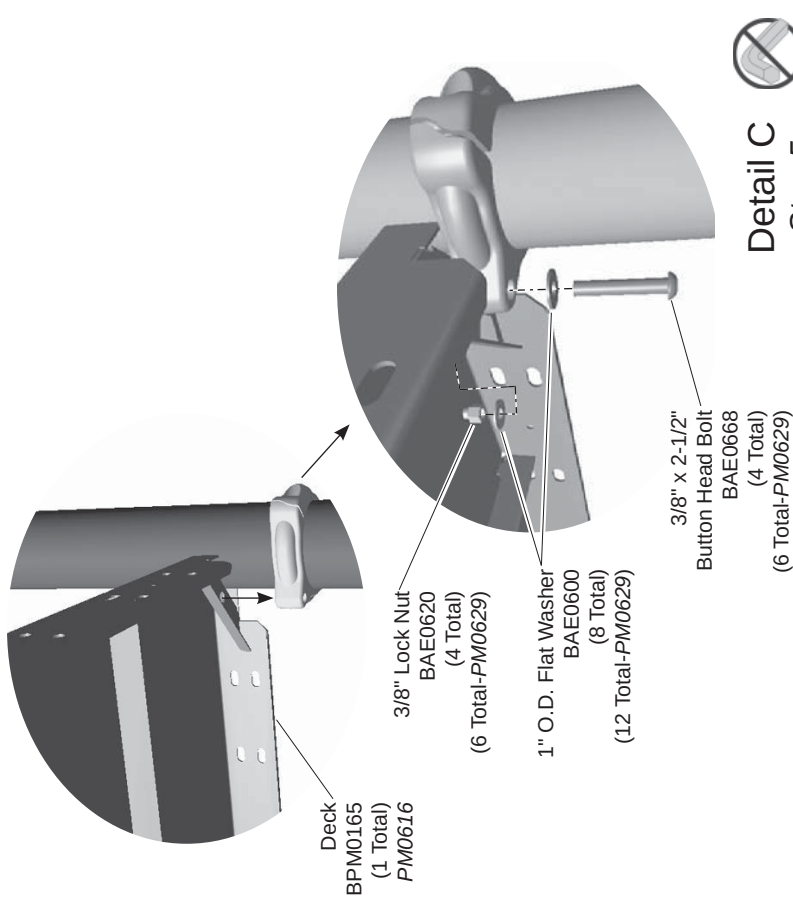
Elevation View
Model PM0629

Installation Instructions

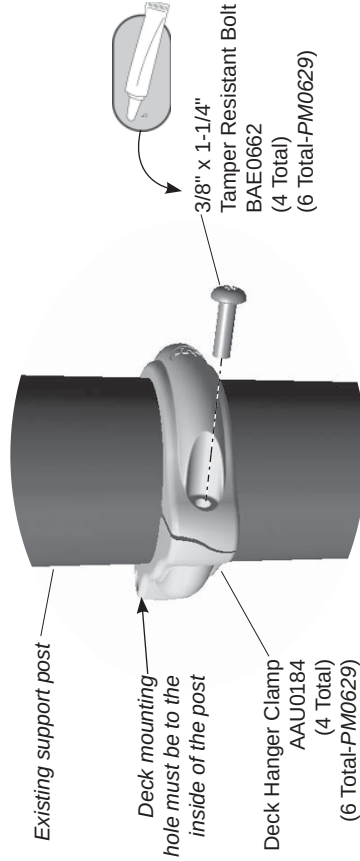
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



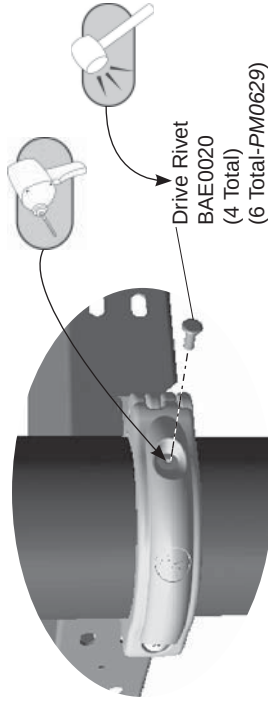
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail C
Step 5
Attach the decks to the clamps.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

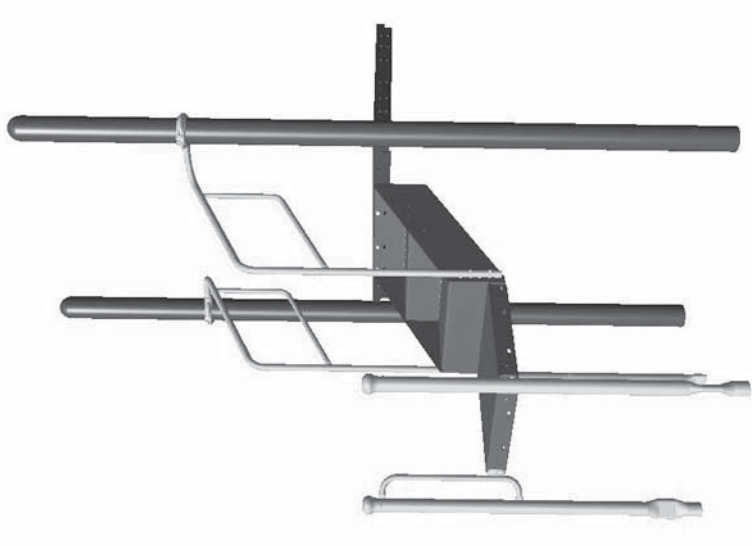
PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0165	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0165	PLATFORM - PM SQUARE PERF	2

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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM2006	36" (915 mm)	172.7 lbs. (78,5 kg)
ZZPM2006S	36" (915 mm)	168.8 lbs. (76,7 kg)
ZZPM2007	36" (915 mm)	176.7 lbs. (80,3 kg)
ZZPM2007S	36" (915 mm)	172.8 lbs. (78,5 kg)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S

36 in. (914 mm) Transfer Station and

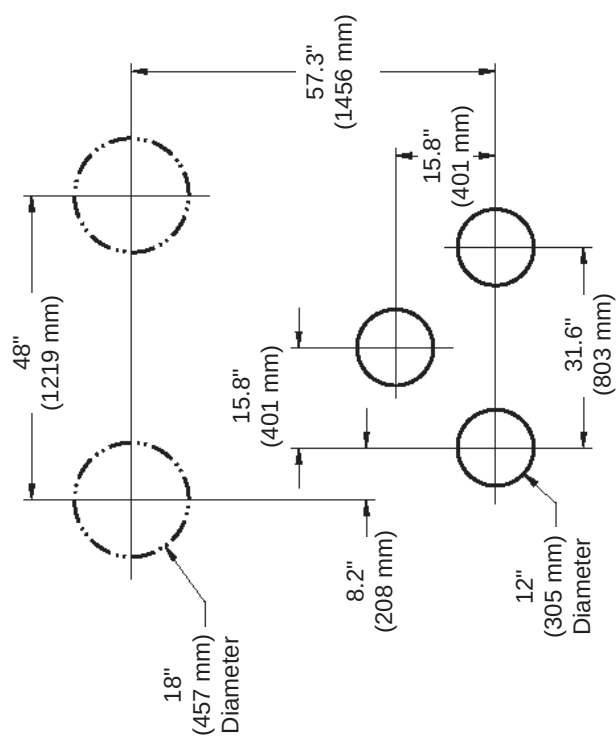
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

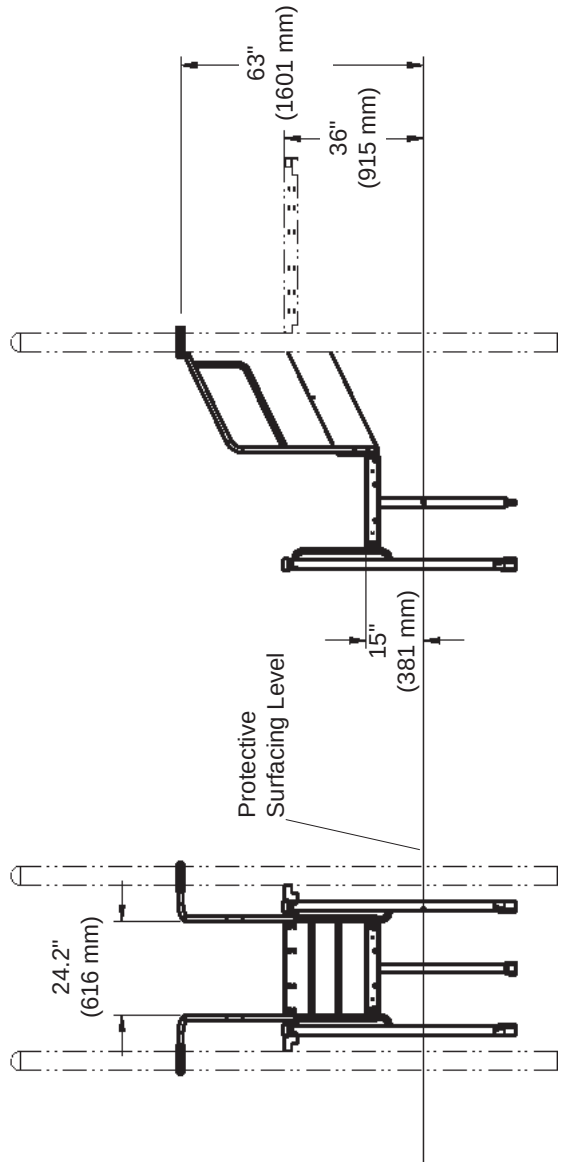
Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Weight: refer to chart
 Concrete Required: 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



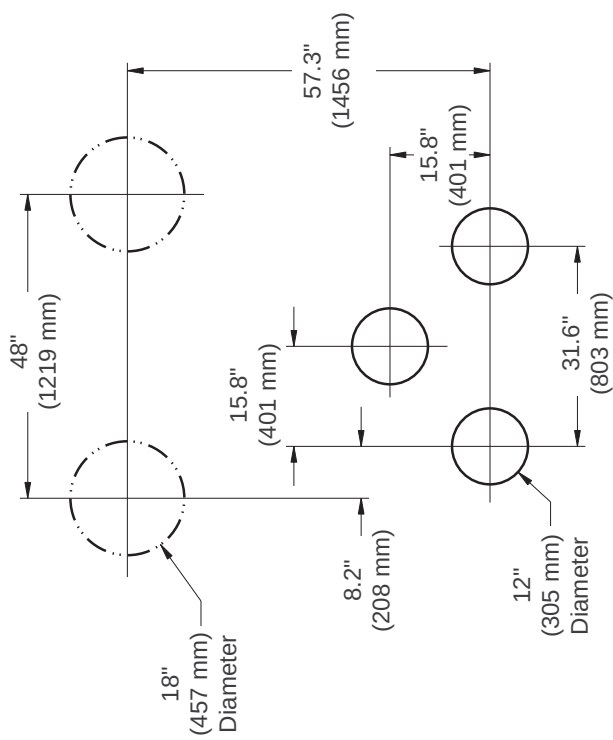
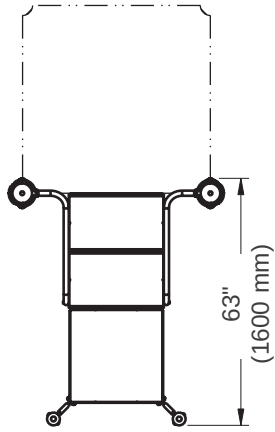
Footing Diagram



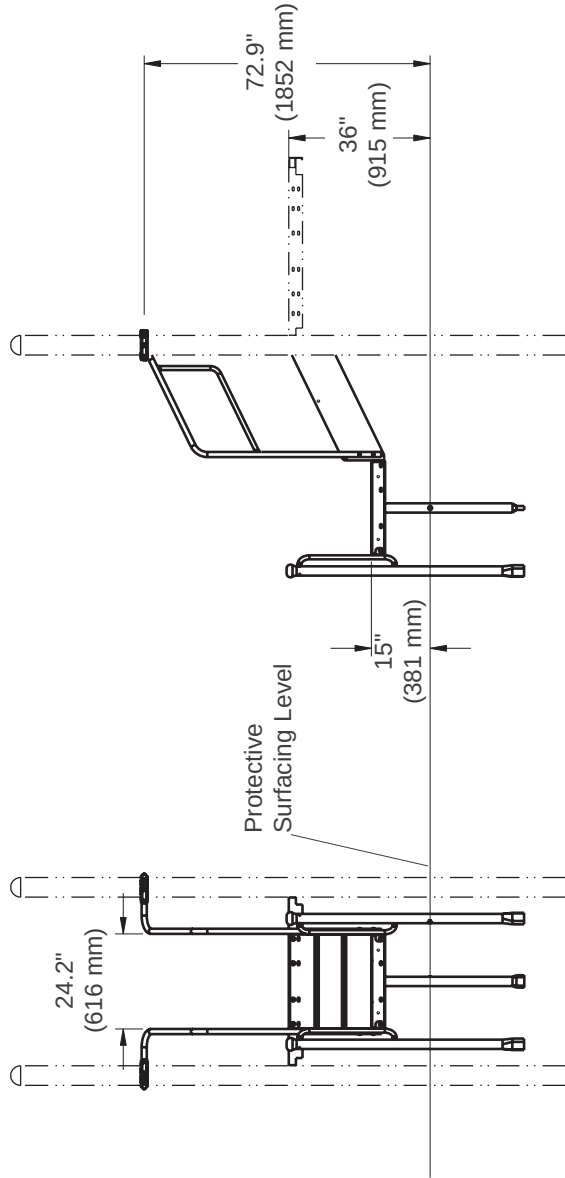
Elevation View
PM2006 (S)

Installation Instructions

Top View



Footing Diagram

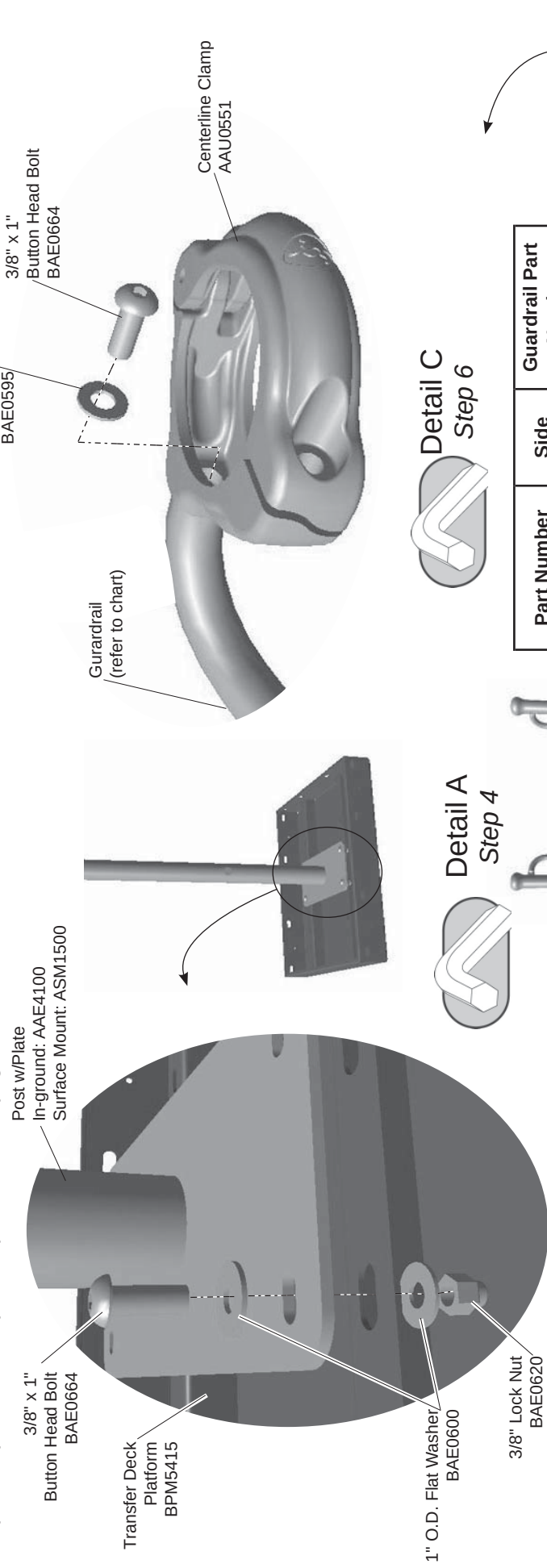


Elevation Views
PM2007 (S)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

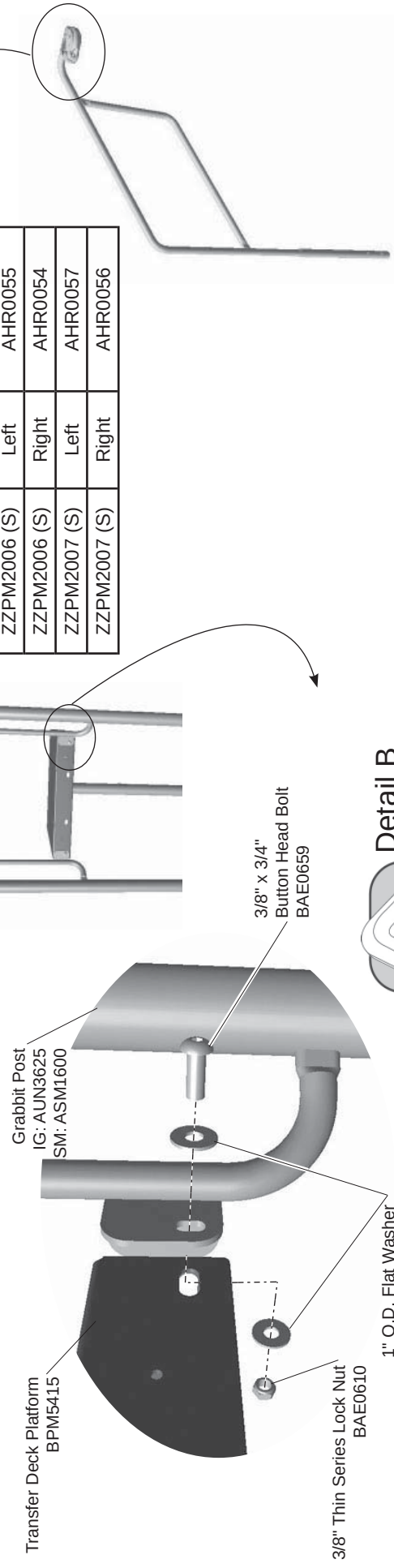
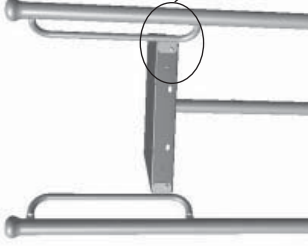


Detail C



Detail A
Step 4

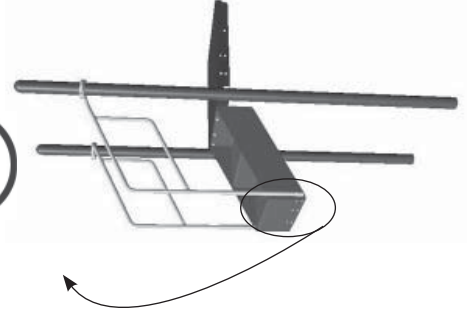
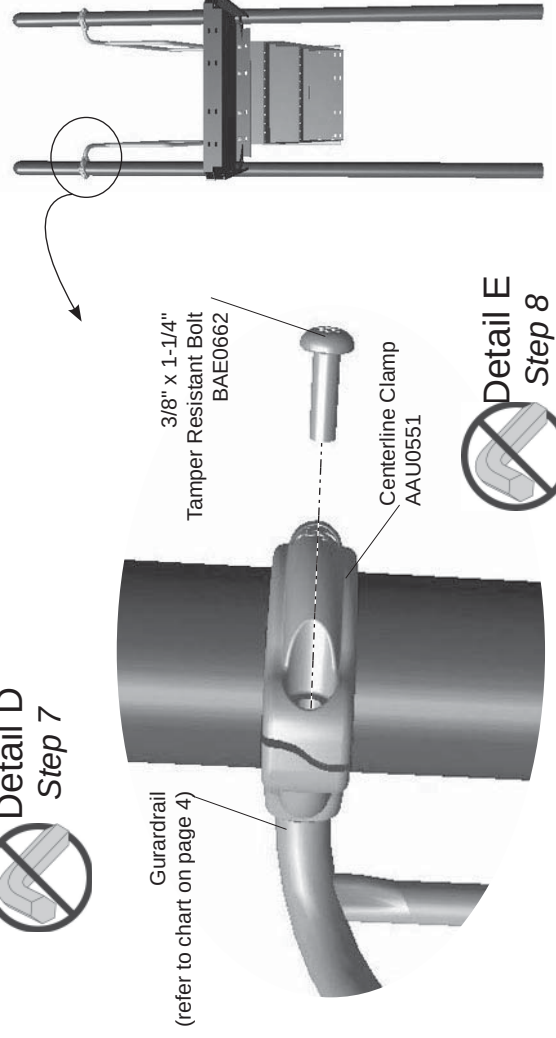
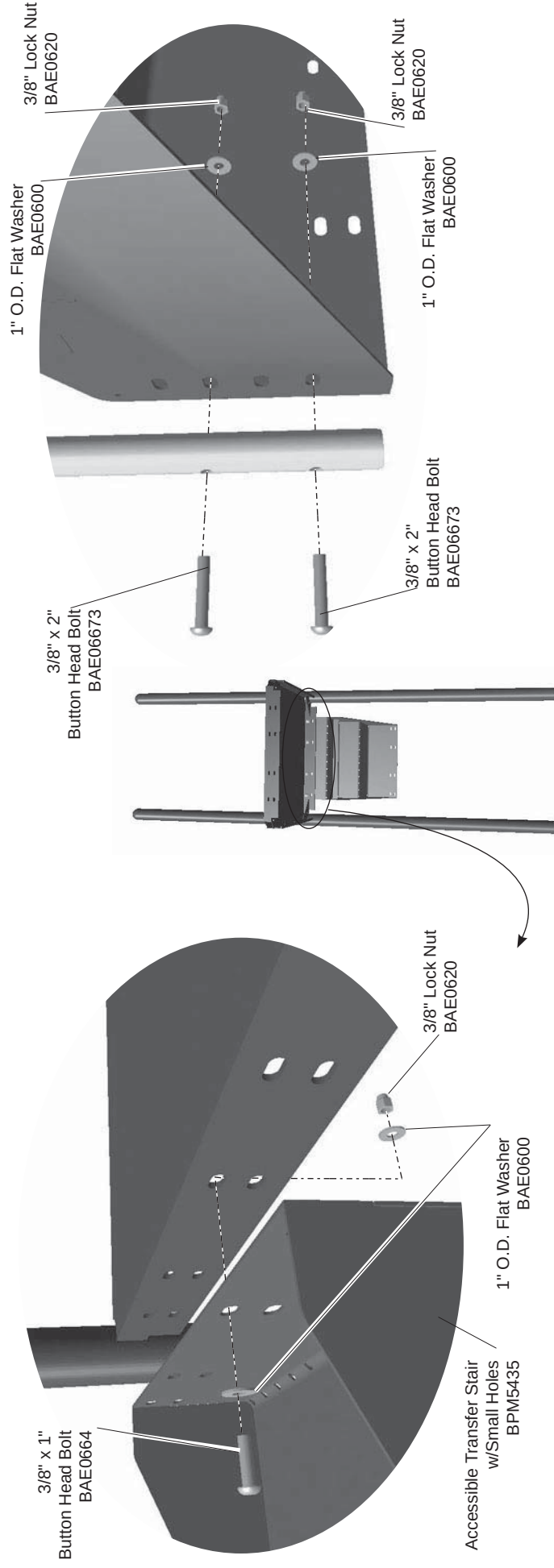
Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056



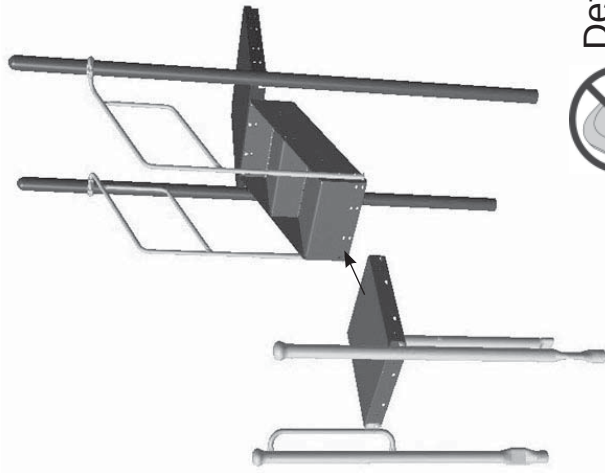
Detail B

Step 5

Installation Instructions

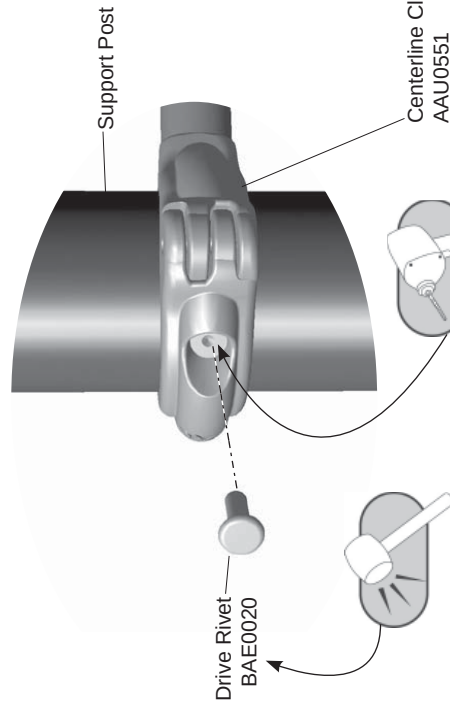
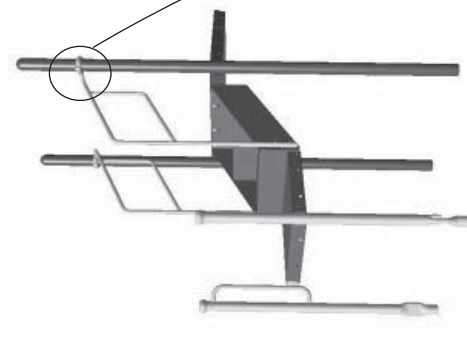
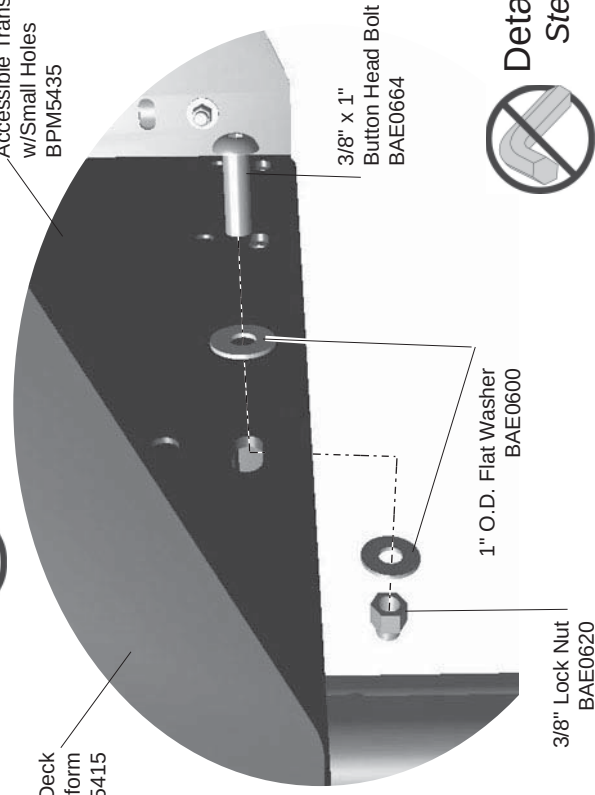


Installation Instructions



Accessible Transfer Stair
w/Small Holes
BPM5435

Transfer Deck
Platform
BPM5415



Detail H
Step 12

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate or prepare footings as shown in the **Component Footing Details** in the *Playmaker Guidelines at the beginning of this document*.

Attach the transfer deck support leg to the transfer deck.

__Step 4: Attach the transfer deck support leg to the underside of transfer deck. See **Detail A**. Select the transfer deck, the transfer deck support leg, and the appropriate hardware. There are (4) four connections. Flip the transfer deck over and align the holes in the support leg mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbites to transfer deck.

__Step 5: Attach grabbites to transfer deck. See **Detail B**. Select (2) two grabbites, the transfer deck assembly, the appropriate hardware. There are (2) two connections per grabbit post, (4) four total connections. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

__Step 6: Attach the clamps to guardrails. See **Detail C**. Select both accessible stair guardrails, the centerline clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the end of each guardrail top and bottom rail against the neck of each clamp. Attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

__Step 7: Attach the stairs to existing support deck. See **Detail D**. Select the stairs and the appropriate hardware. There are (4) four connections. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

__Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Select both guardrail assemblies and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

__Step 9: Attach the guardrails to the stair. See **Detail F**. Select the appropriate hardware. There are (2) two connections per guardrail, (4) four total connections. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

__Step 10: Attach transfer deck assembly to the stair. See **Details G-1 and G-2**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Installation Instructions

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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Bill of Materials

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SMALL HLS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBLE COATED TRANSFER w/SMALL HLS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSBL COATED TRANSFER w/SMALL HLS	1

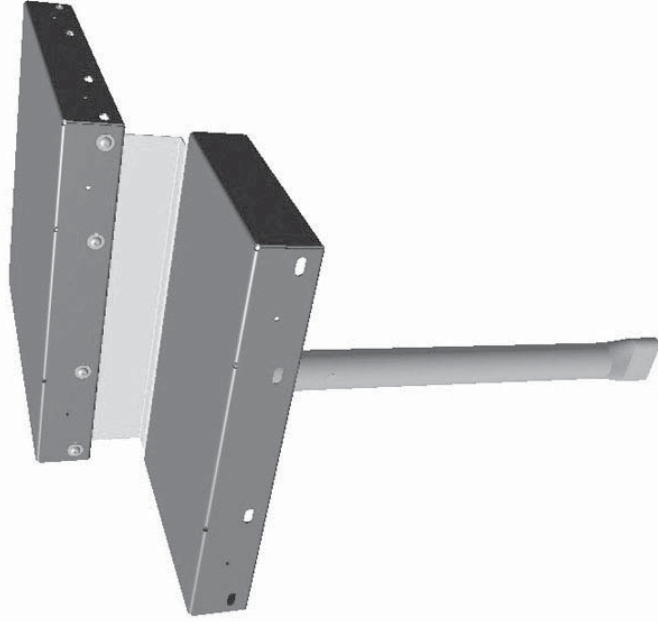
ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM5415	PLATFORM - 24" x 24" TRANSFER DECK w/SMALL HLS	1
BPM5435	STAIR - 21" ACSIBLE COATED TRANSFER w/SMALL HLS	1



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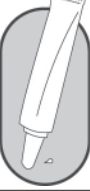
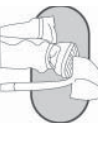
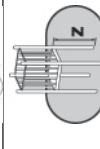
Assembly View

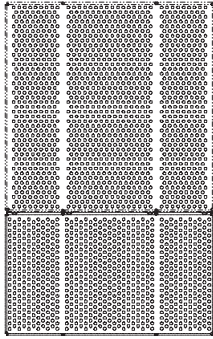
Installation Instructions Universal Model UN2019 Platform Approach Step

Installation Preparation

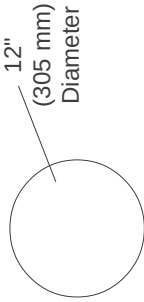
Recommended Crew: Two (2) adults
Installation Time: 1 installation-hours
Weight: 40.4 lbs. (18,2 kg)
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

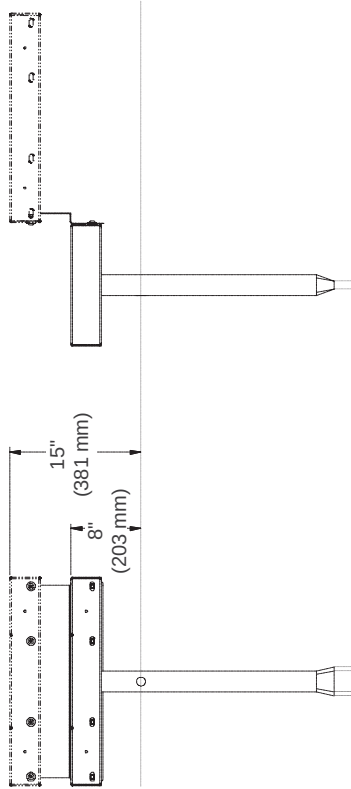
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Top View



Footing Diagram

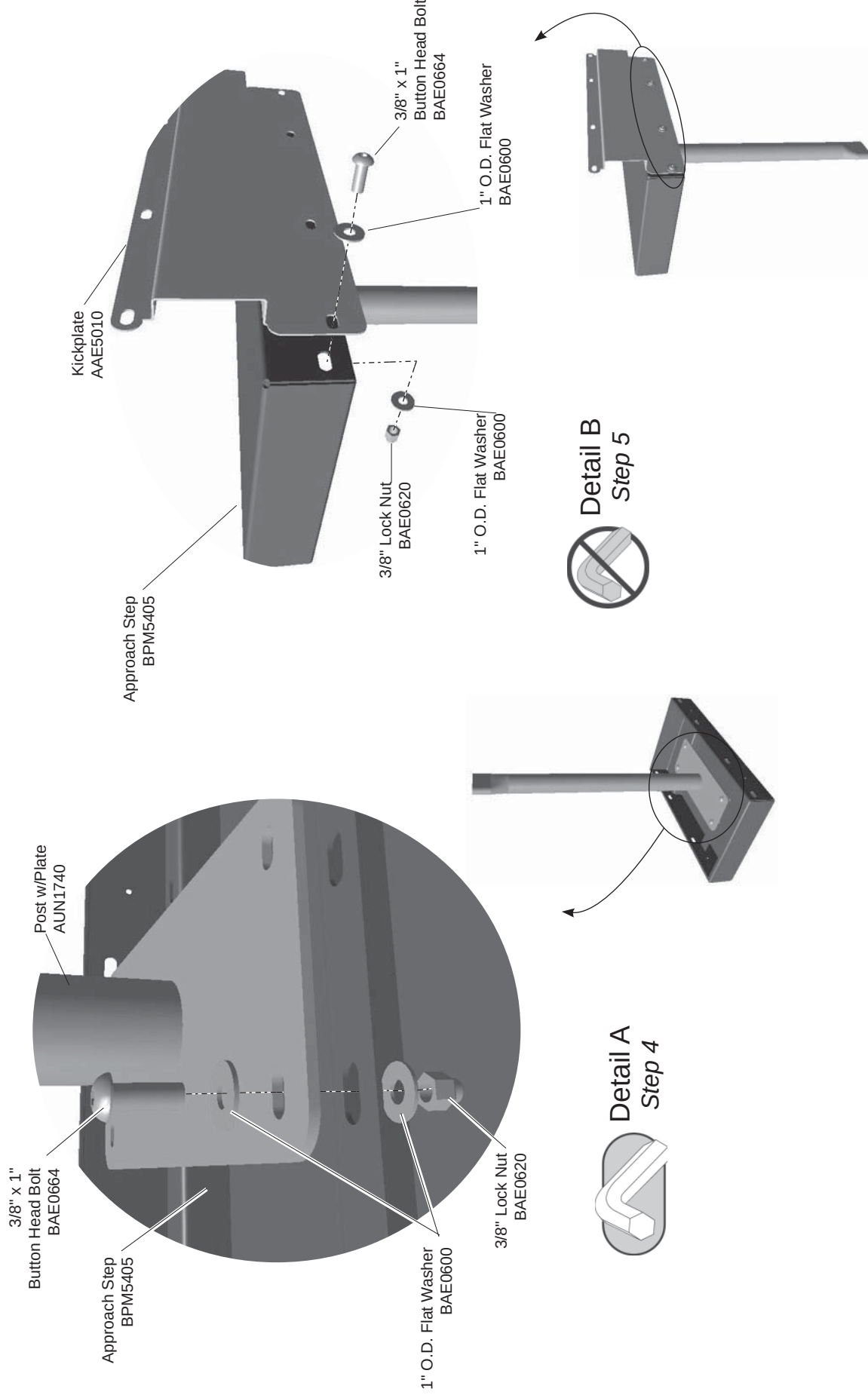


Elevation Views

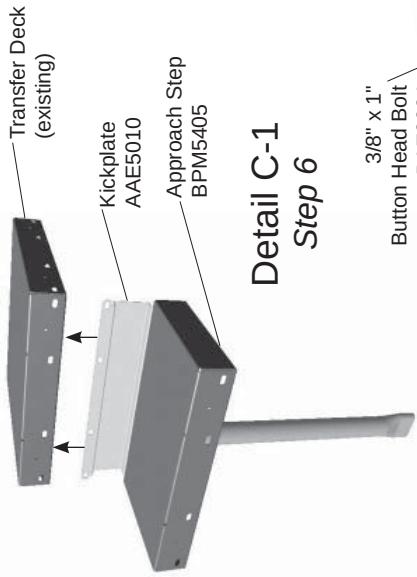


Installation Instructions

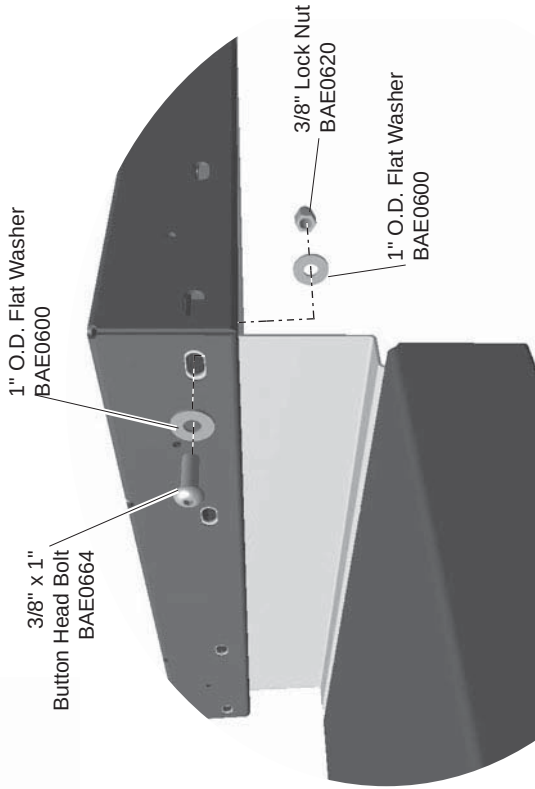
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



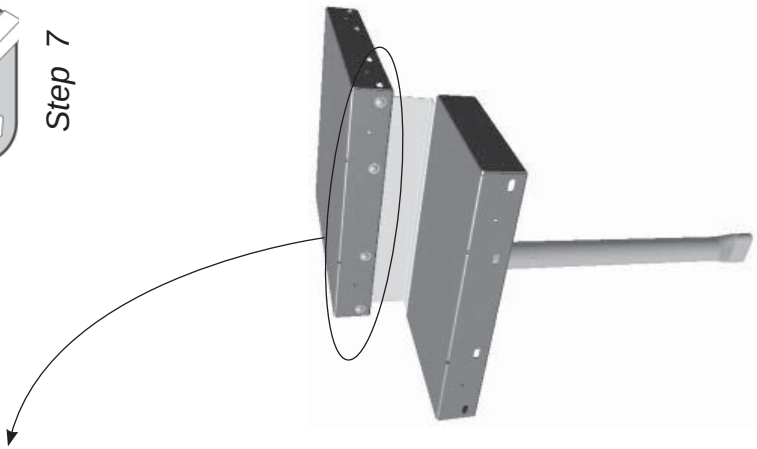
Installation Instructions



Detail C-1
Step 6



Detail C-2
Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

__Step 4: Attach the support leg to the approach step. See **Detail A**. Select (1) one approach step, (1) one support leg, and the appropriate hardware. There are (4) four connections. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

__Step 5: Attach the kickplate to the approach step. See **Detail B**. Select the kickplate and the appropriate hardware. There are (4) four connections. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

__Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM5405	PLATFORM- 14" x 24" APPROACH STEP w/SMALL HOLES	1

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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24" -60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

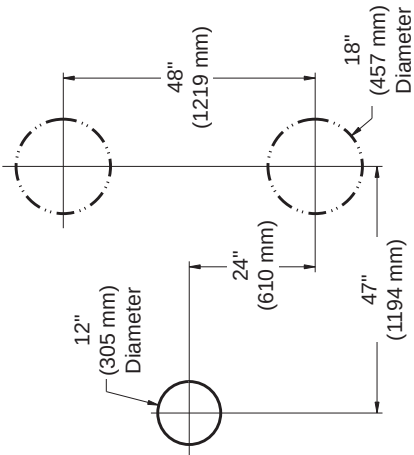


Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

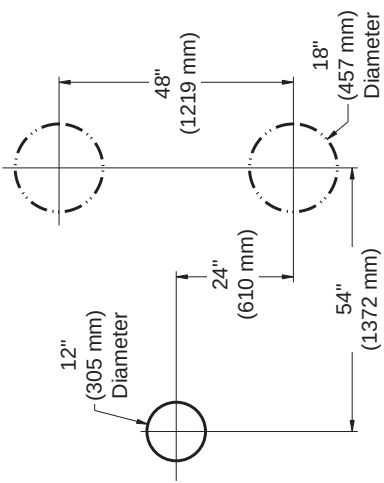
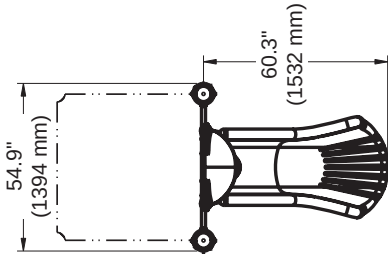
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

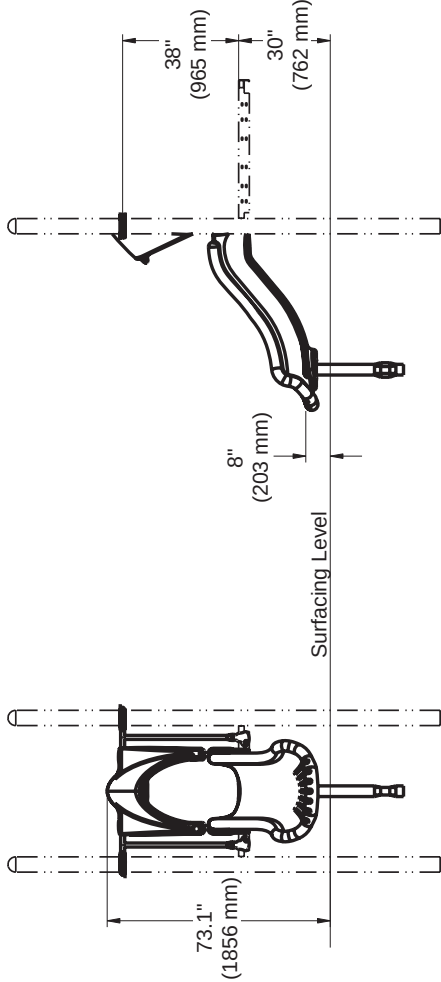
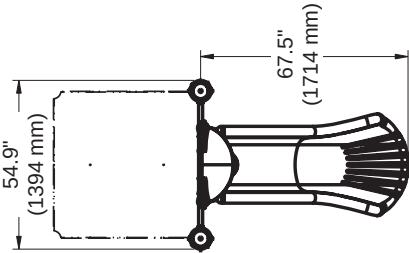


Footing Diagram

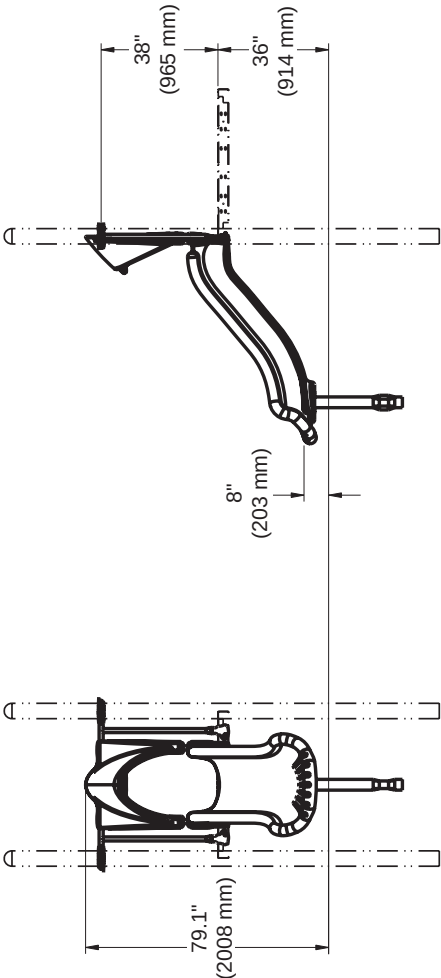
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram

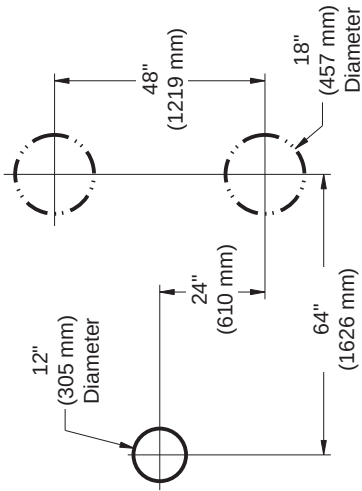


Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)

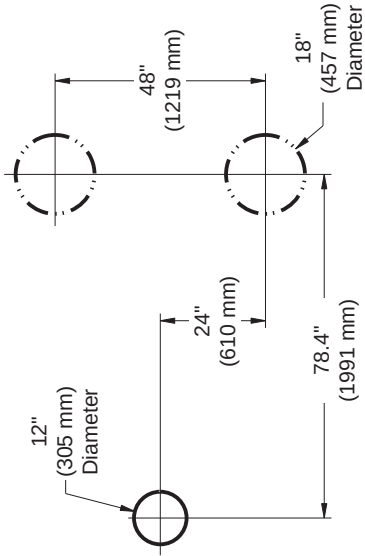


Elevation View PM3127 - 36" Glide Slide

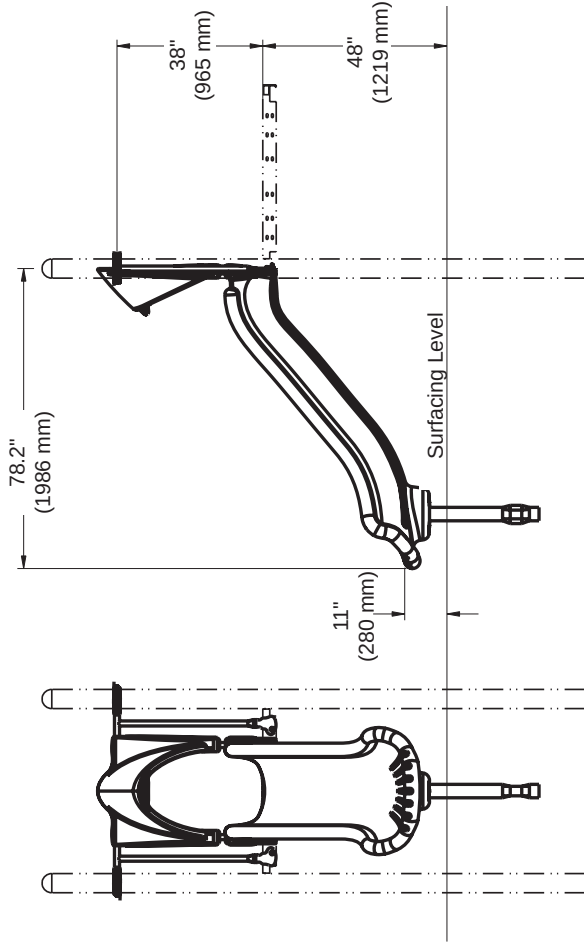
Installation Instructions



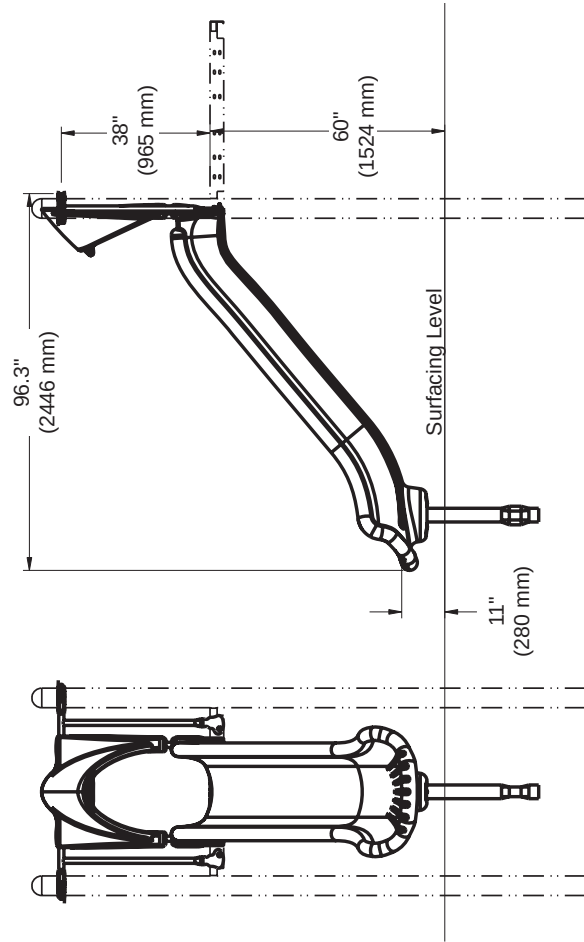
Footing Diagram



Footing Diagram

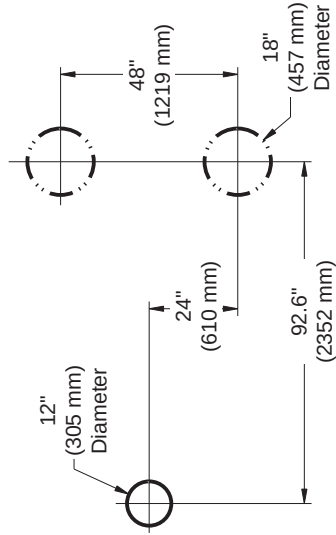


Elevation View PM3126 - 48" Glide Slide

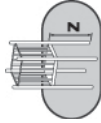


Elevation View PM2658 - 60" Glide Slide

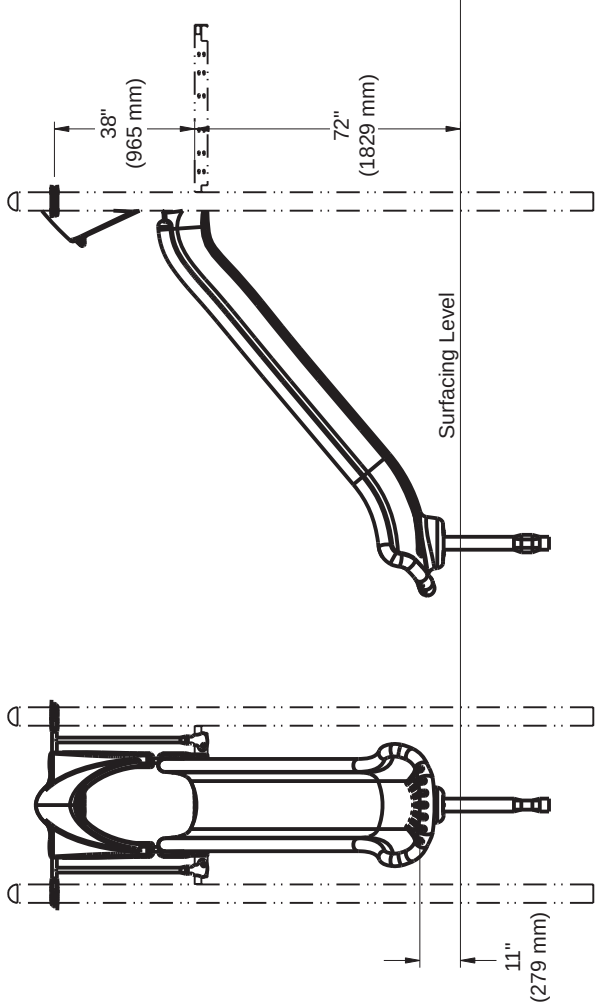
Installation Instructions



Footing Diagram



(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

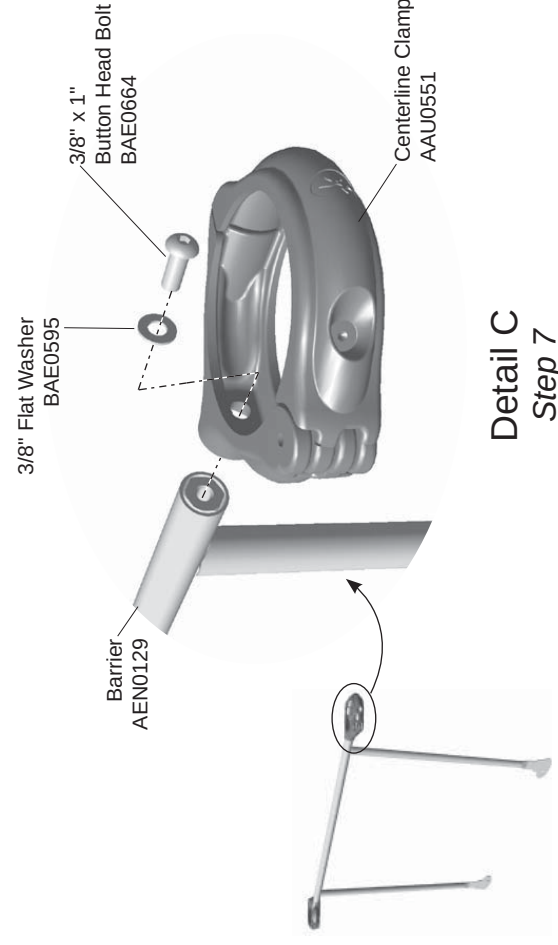
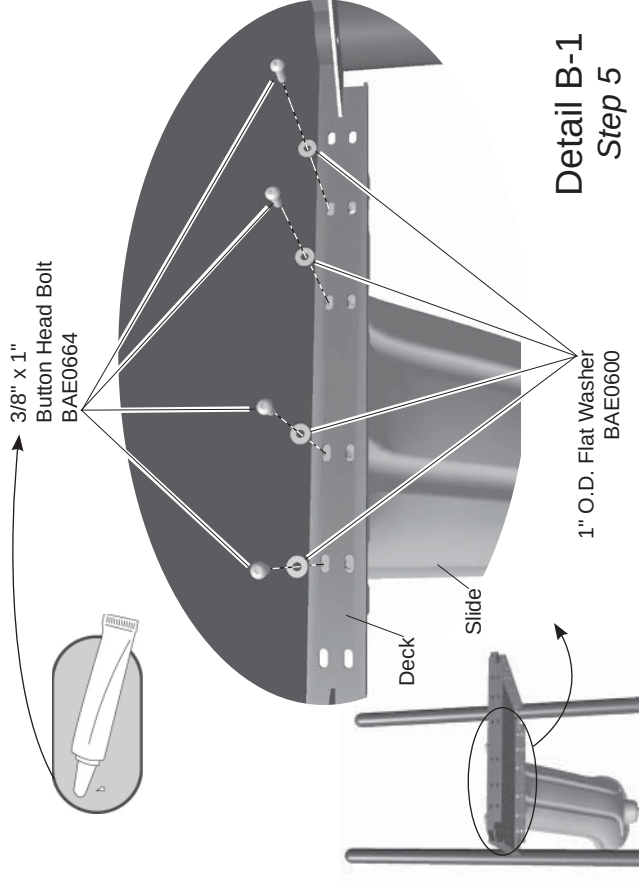
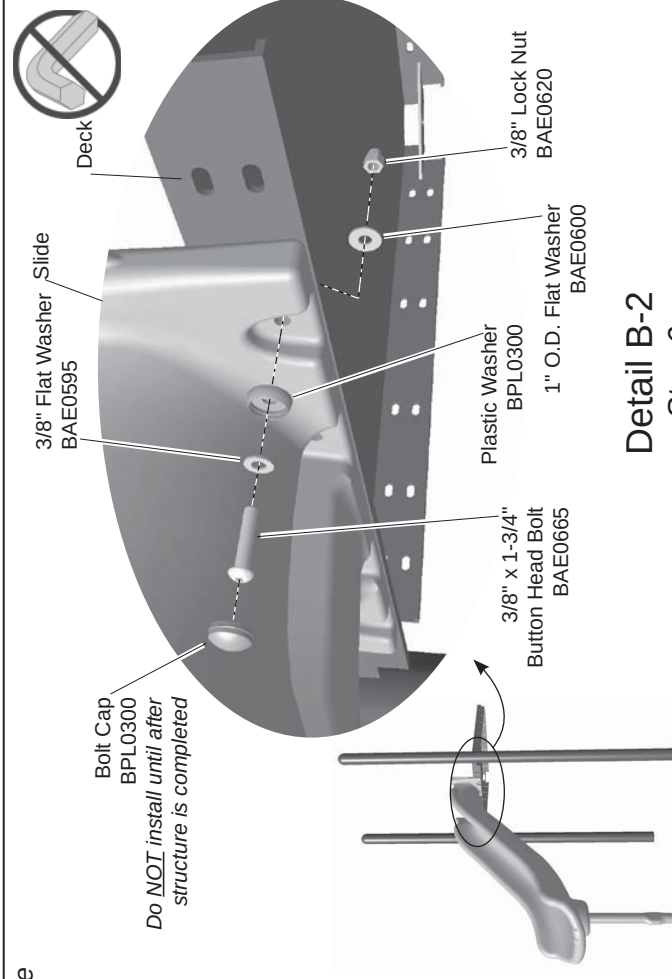
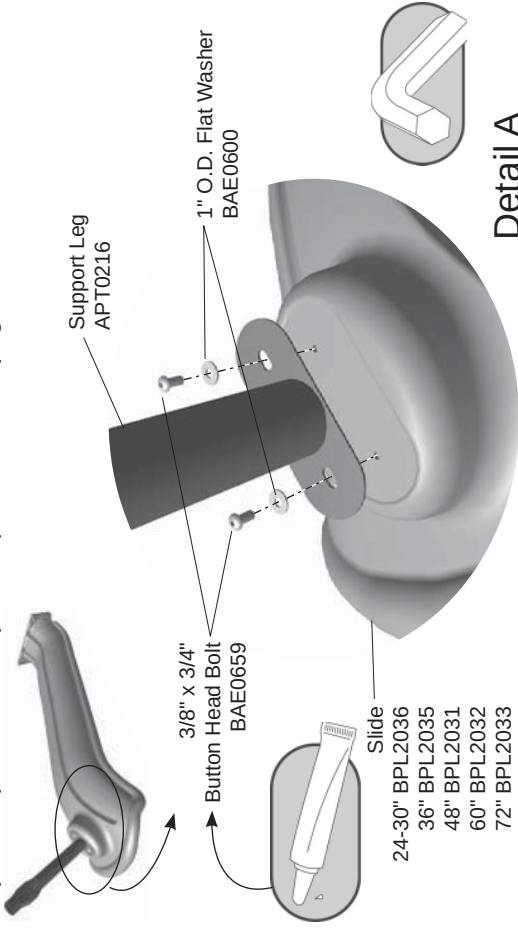


Elevation View PM2696 - 72" Glide Slide

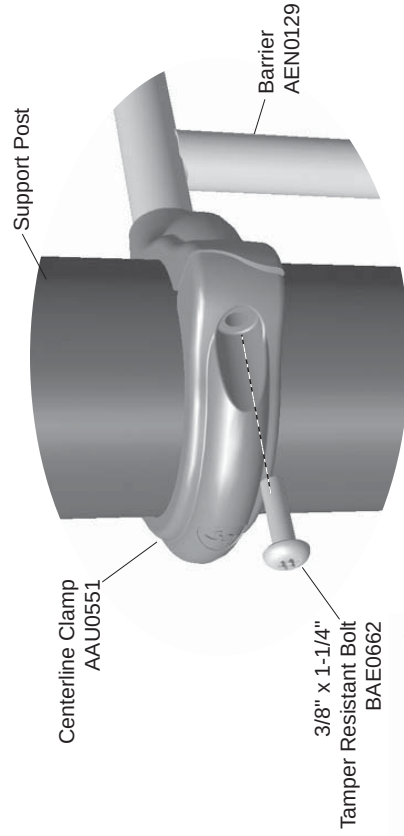


Installation Instructions

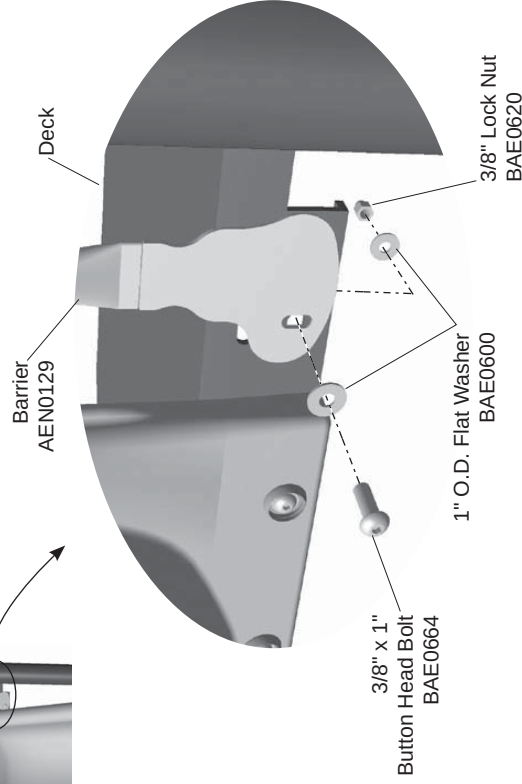
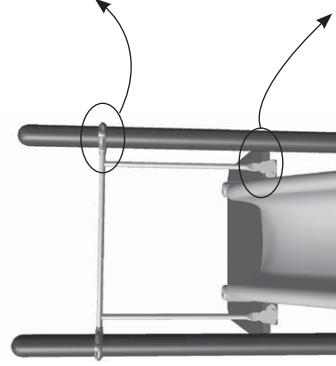
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



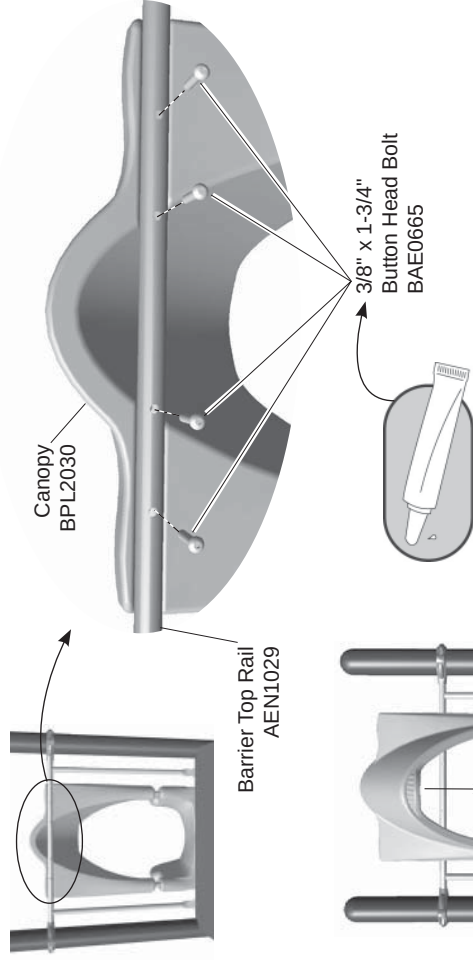
Installation Instructions



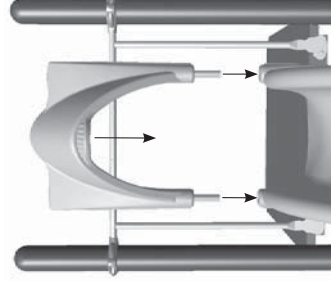
**Detail D-1
Step 8**



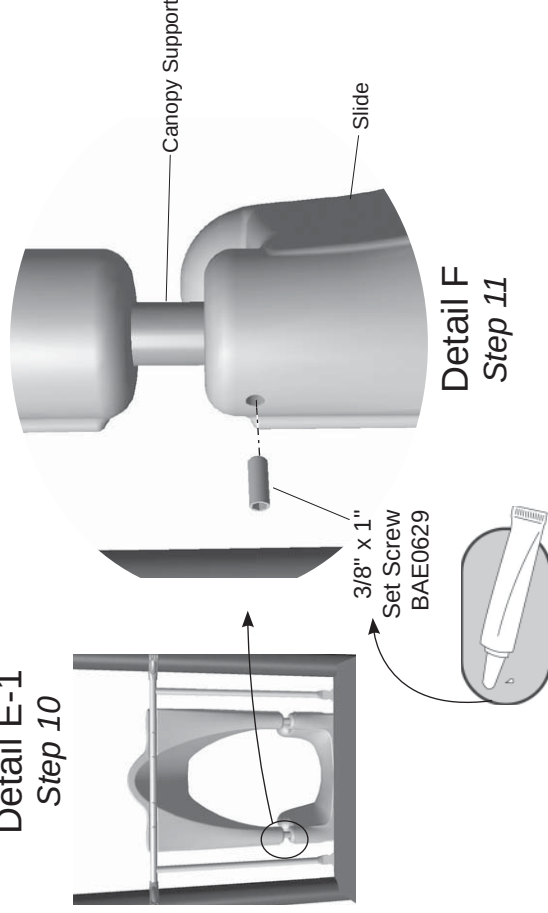
**Detail D-2
Step 9**



**Detail E-2
Step 10**

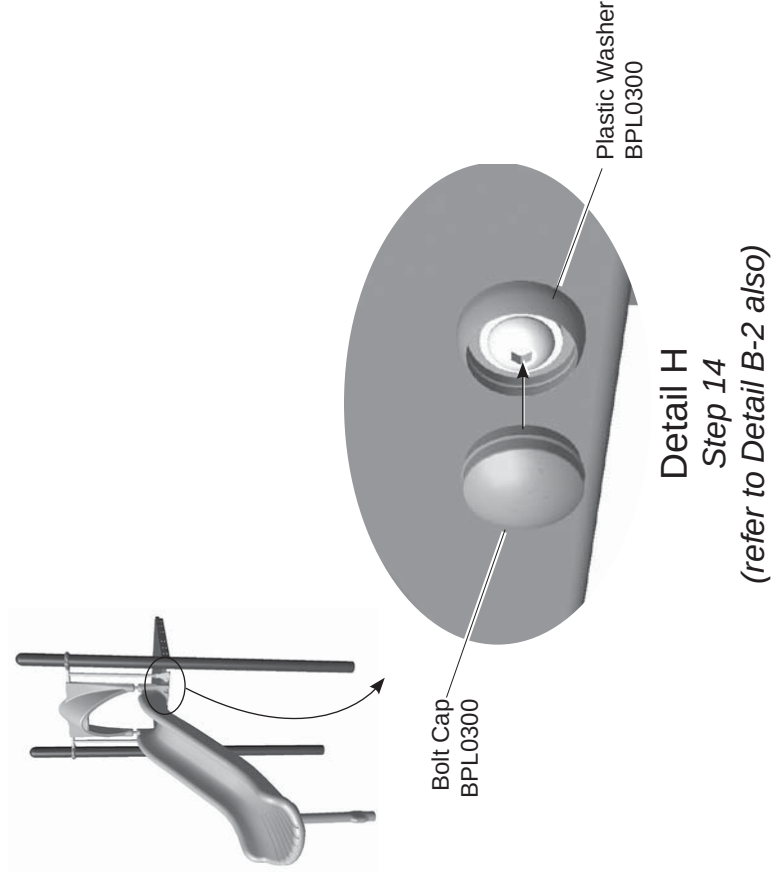


**Detail E-1
Step 10**

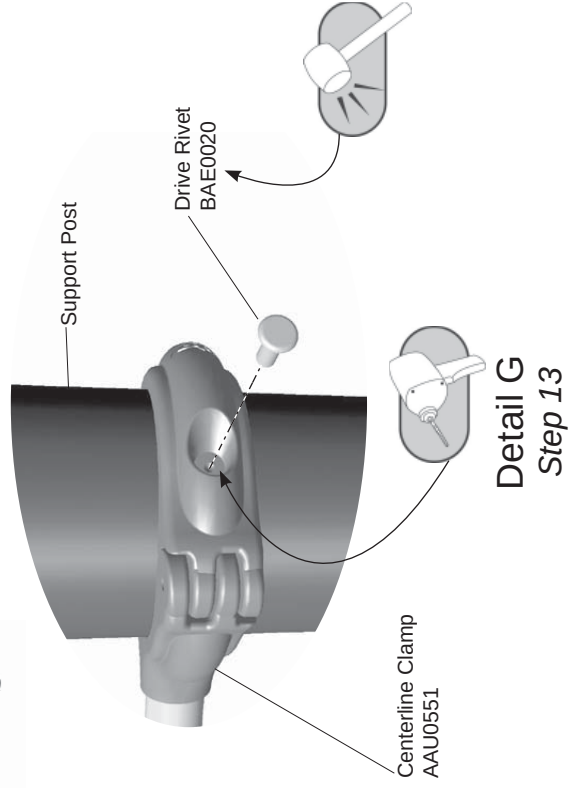
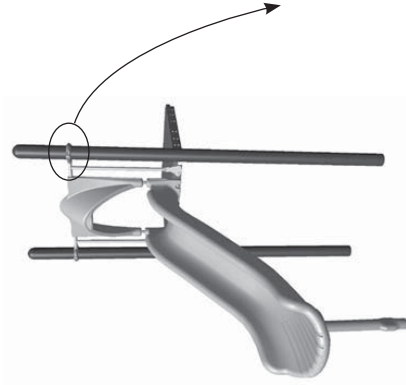


**Detail F
Step 11**

Installation Instructions



Step 12



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



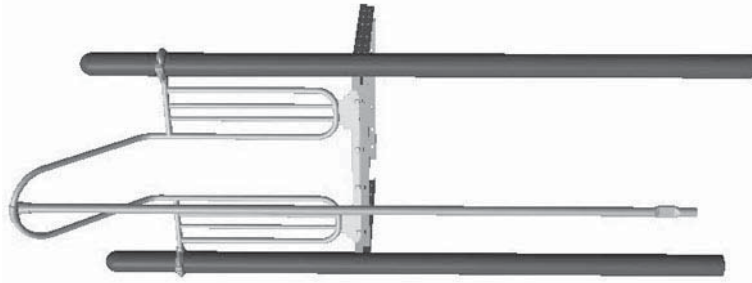
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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8060	36" (915 mm)	66.5 lbs. (30.2 kg)
ZZPM8070	48" (1220 mm)	68.4 lbs. (31.1 kg)
ZZPM8080	60" (1525 mm)	69.7 lbs. (31.7 kg)
ZZPM8090	72" (1830 mm)	71.6 lbs. (32.5 kg)

Installation Instructions

Playmakers® Model PM8060,
PM8070, PM8080, and PM8090
Sliding Pole

36 in. (915 mm), 48 in. (1220 mm),
60 in. (1525 mm), and 72 in. (1830 mm) Decks

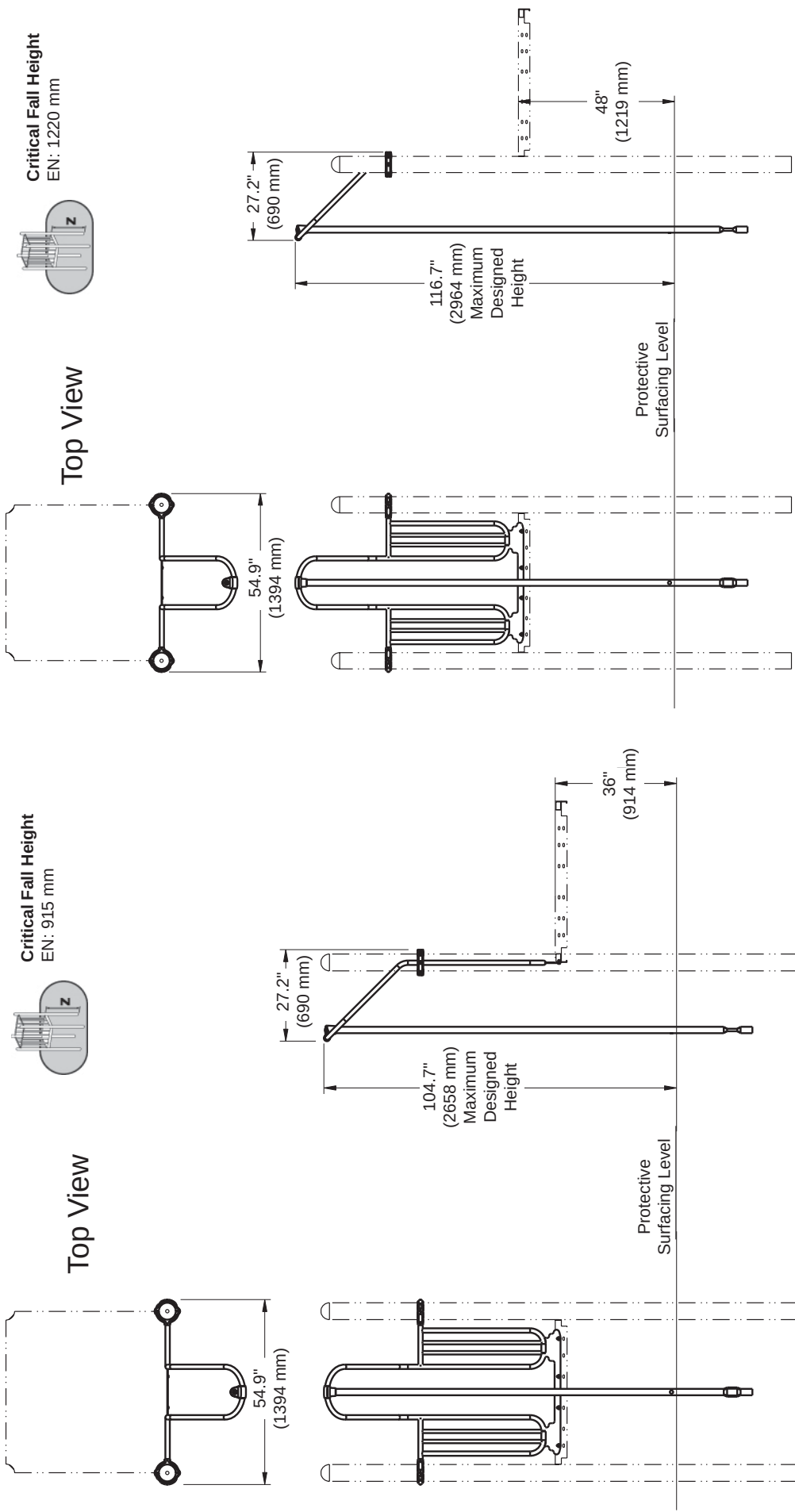
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: (refer to table)
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

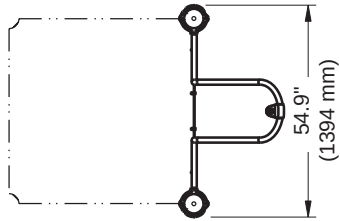


Elevation View
36 in. (914 mm) Deck

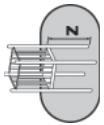
Elevation View
48 in. (1219 mm) Deck



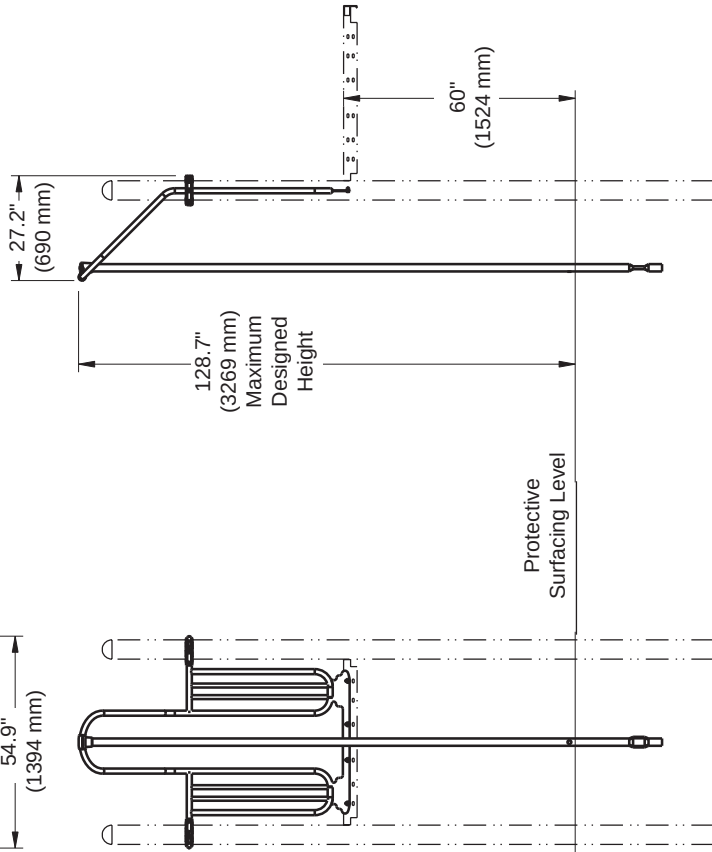
Installation Instructions



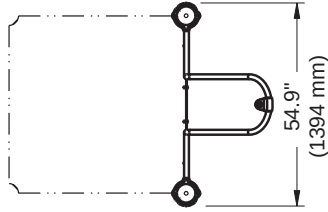
Top View



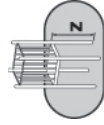
Critical Fall Height
EN: 1524 mm



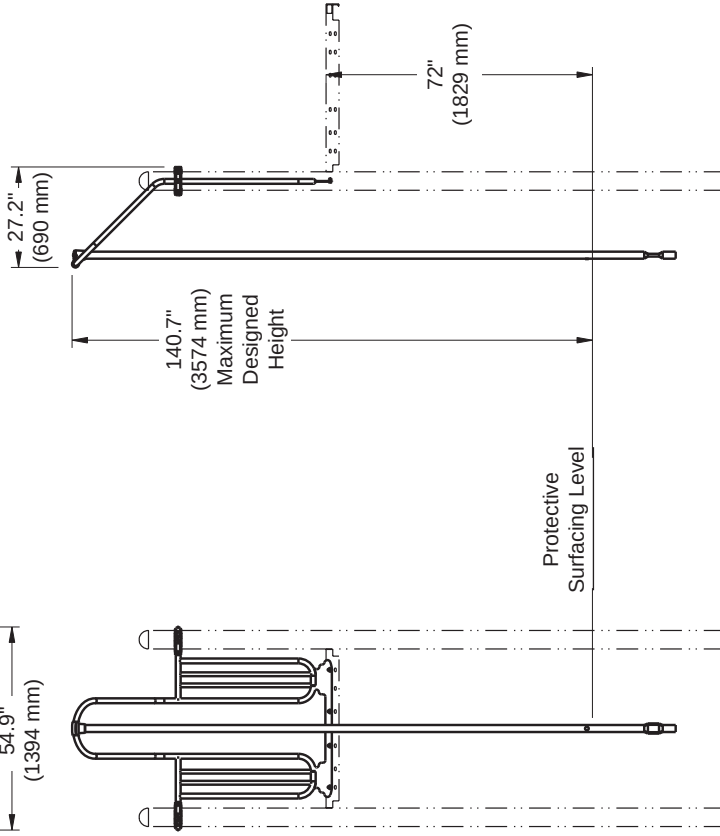
Elevation View
60 in. (1524 mm) Deck



Top View



Critical Fall Height
EN: 1829 mm

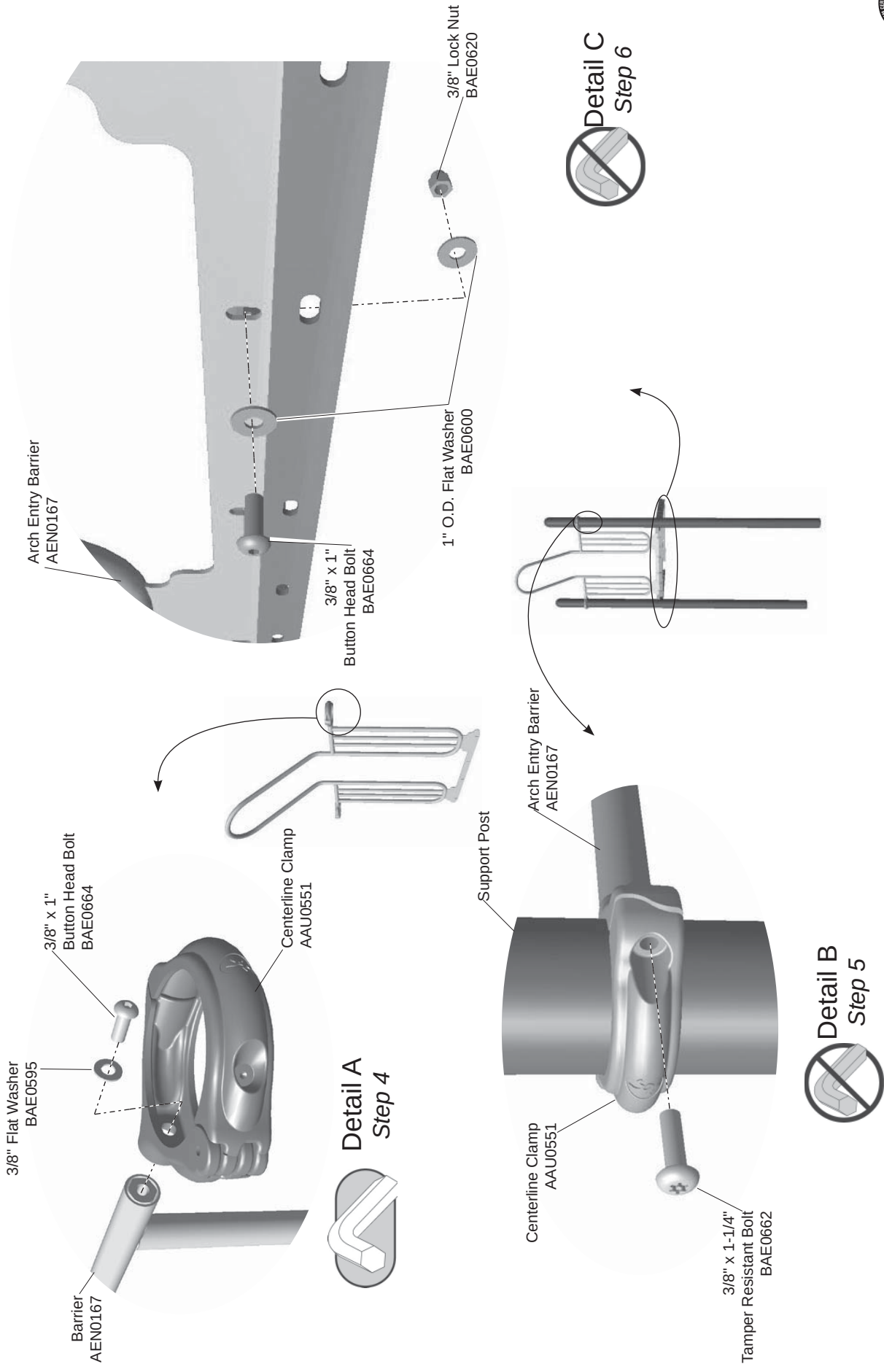


Elevation View
72 in. (1829 mm) Deck

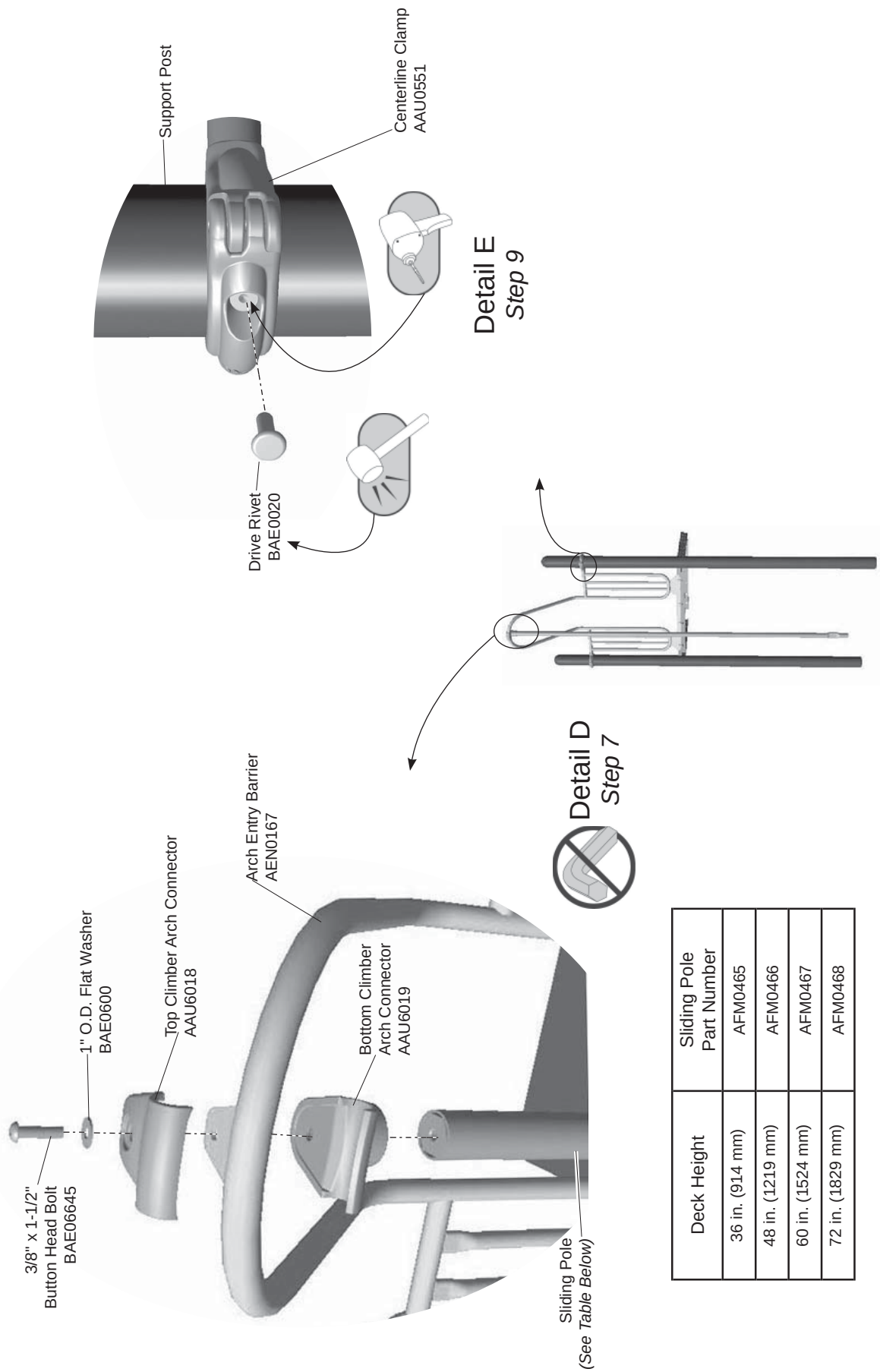


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Deck Height	Sliding Pole Part Number
36 in. (914 mm)	AFM0465
48 in. (1219 mm)	AFM0466
60 in. (1524 mm)	AFM0467
72 in. (1829 mm)	AFM0468



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate holes as shown in the **Footing Details**.

Attach the clamps to the arch entry barrier.

__Step 4: Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

__Step 5: Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

__Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. The barrier can be attached to either the *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Attach the sliding pole to the barrier.

__Step 7: Attach the sliding pole to the barrier. See **Detail D**. Select the sliding pole, the top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Place the sliding pole into the excavated footing, and attach as shown.

Final Details.

__Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - SLIDING POLE 36 in. (914 mm) DECK (ZZPMM8060)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0465	FAB METAL - 36" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 60 in. (1524 mm) DECK (ZZPMM8080)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0467	FAB METAL - 60" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 48 in. (1219 mm) DECK (ZZPMM8070)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0466	FAB METAL - 48" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

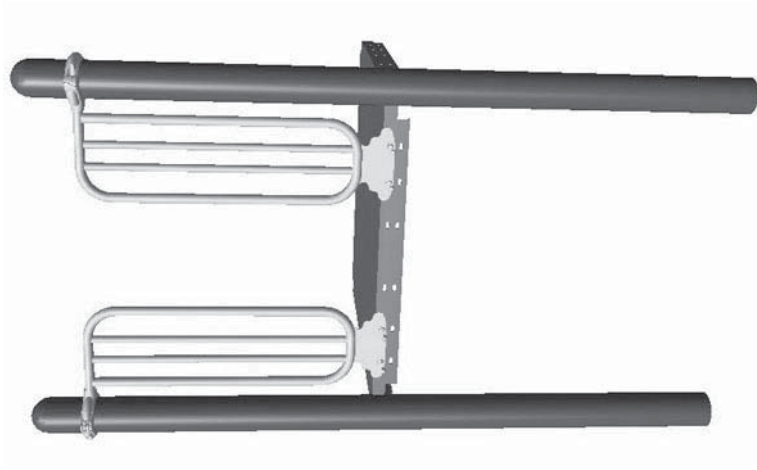
PM - SLIDING POLE 72 in. (1829 mm) DECK (ZZPMM8090)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0468	FAB METAL - 72" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



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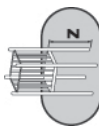


Assembly View

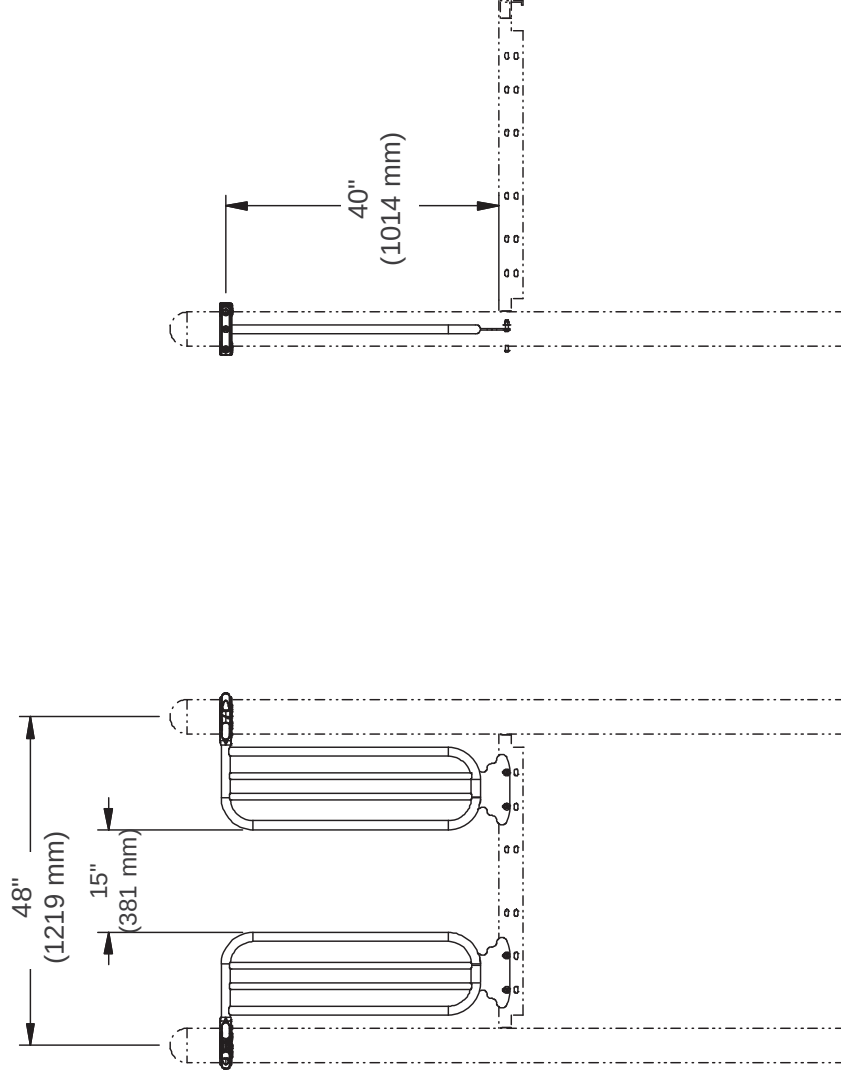
Installation Instructions Playmakers® Model PM4288 Compliance Access Gate

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Weight: 34 lbs. (15,4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <u>Not</u> Fully Tighten Hardware		Critical Fall Height
	Drill		Hammer

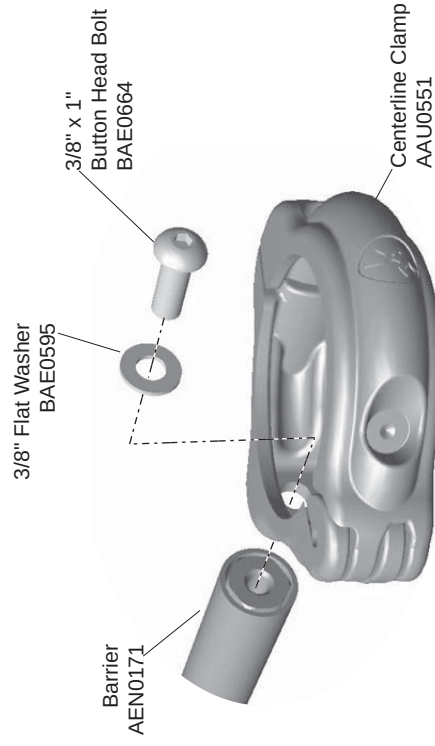
Installation Instructions



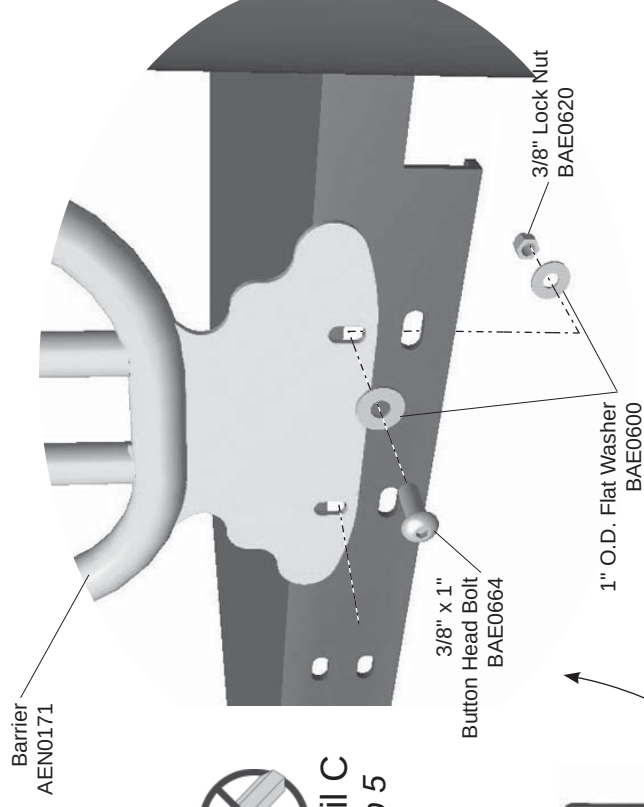
Elevation View

Installation Instructions

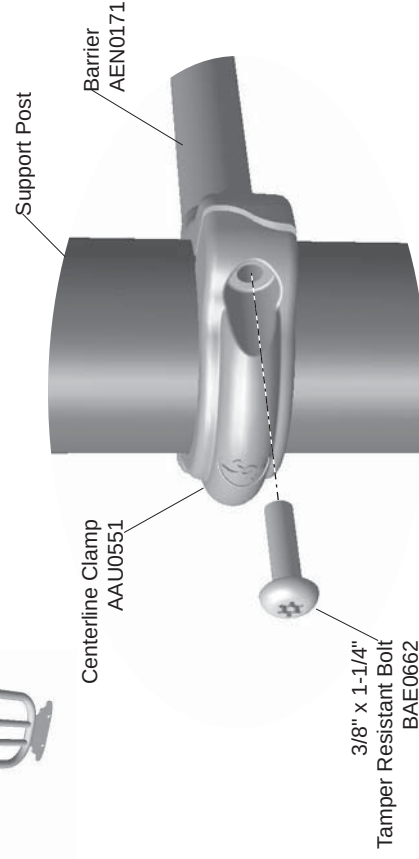
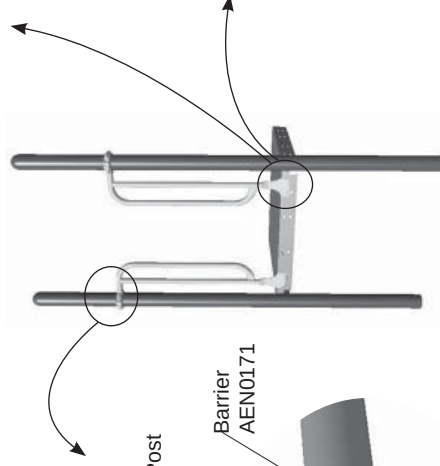
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



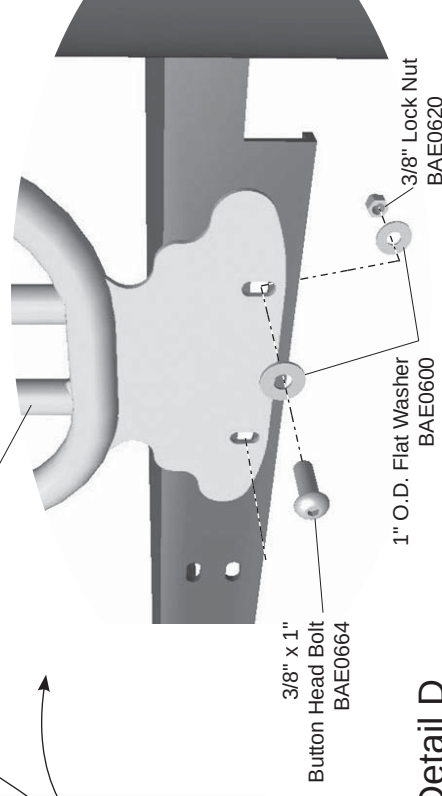
Detail A
Step 3



Detail C
Step 5

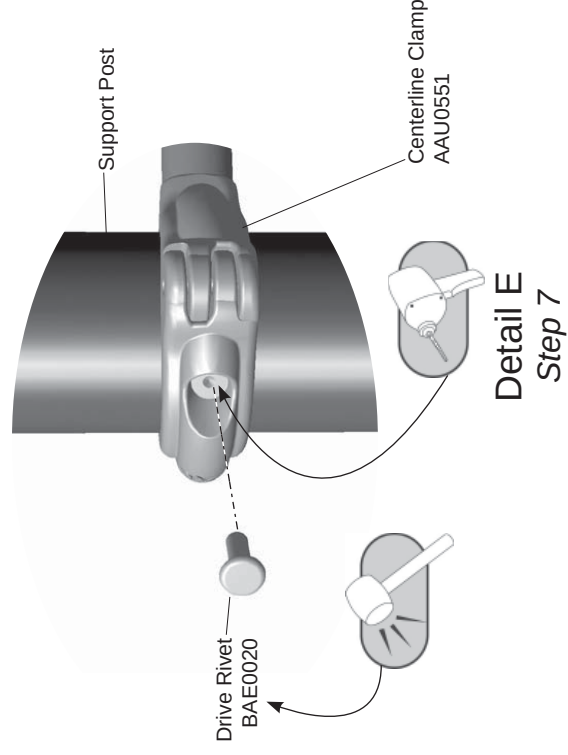


Detail B
Step 4



Detail D
Step 5

Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

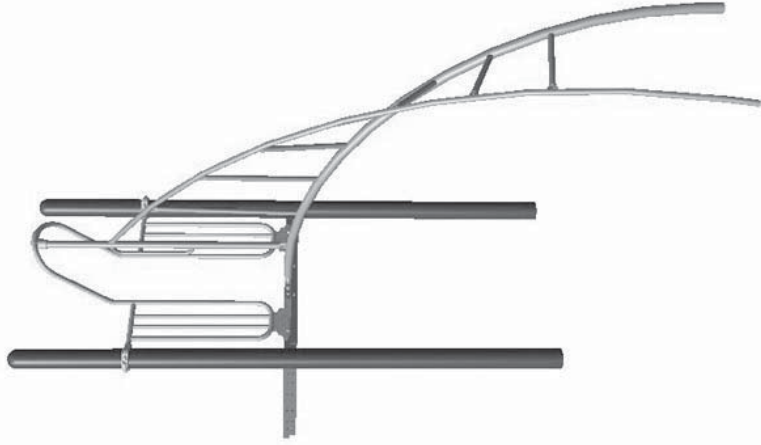
Note: This step should be executed after structure has been assembled and properly footed.

PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7160	72" (1830 mm)	129 lbs. (58,6 kg)
ZZPM7166	84" (2134 mm)	135.3 lbs. (61,5 kg)
ZZPM7167	96" (2743 mm)	142.1 lbs. (64,6 kg)

Installation Instructions

Playmakers® Models PM7160, PM7166, and PM7167

Twisted Climber

6 ft. (1829 mm), 7 ft. (2134 mm), and 8 ft. (2438 mm)

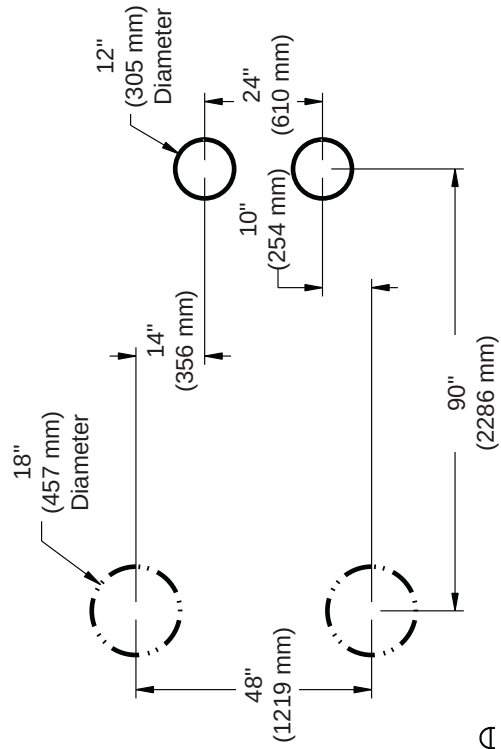
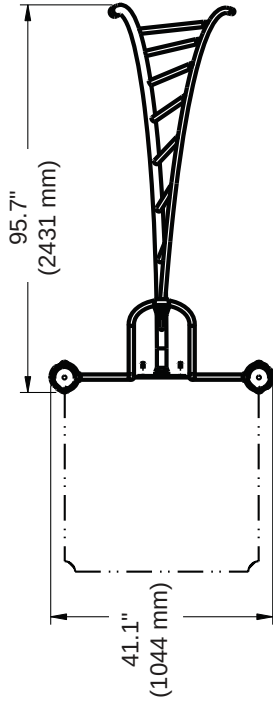
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Weight: (refer to table)
 Concrete Required: 0.6 cubic yard (0,4 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

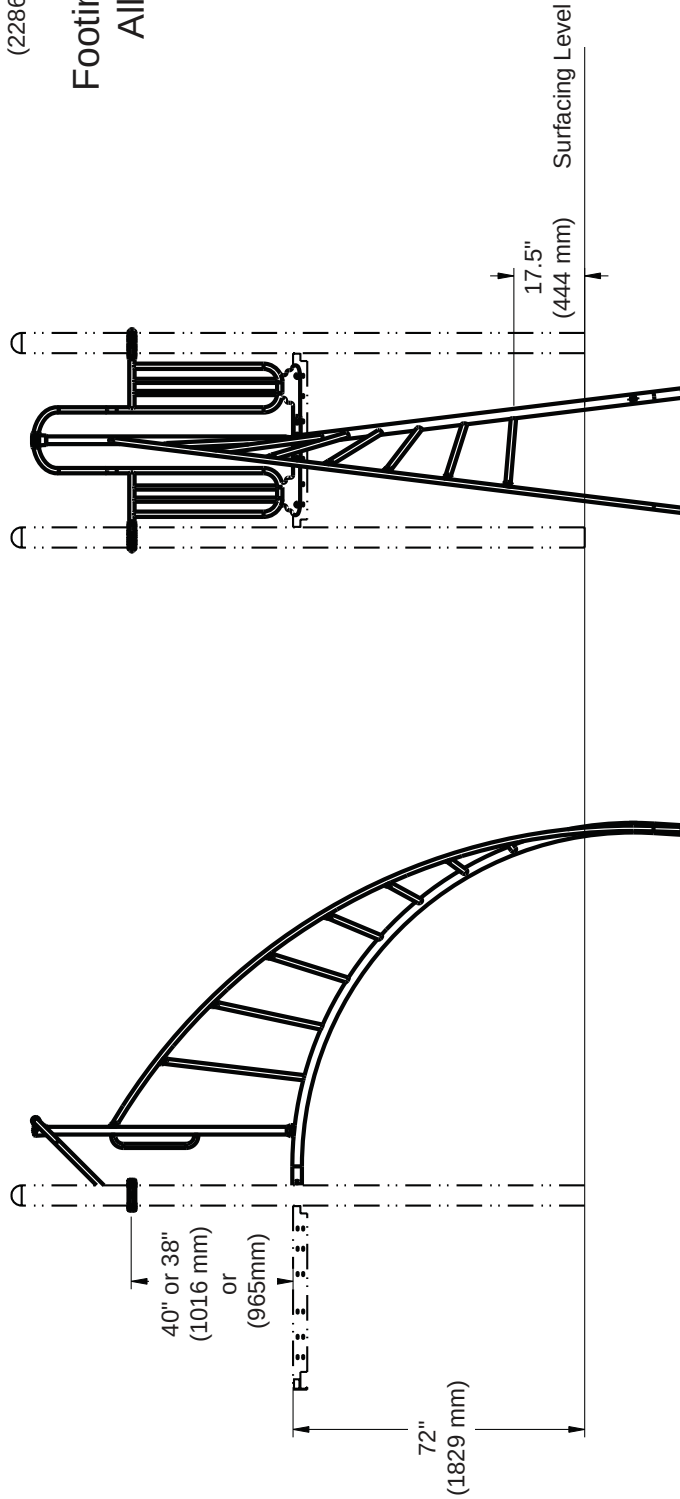
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

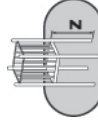
Top View



Footing Diagram
All Models



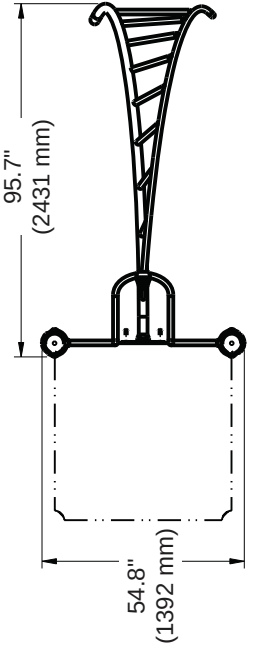
Elevation Views
ZZPM7160



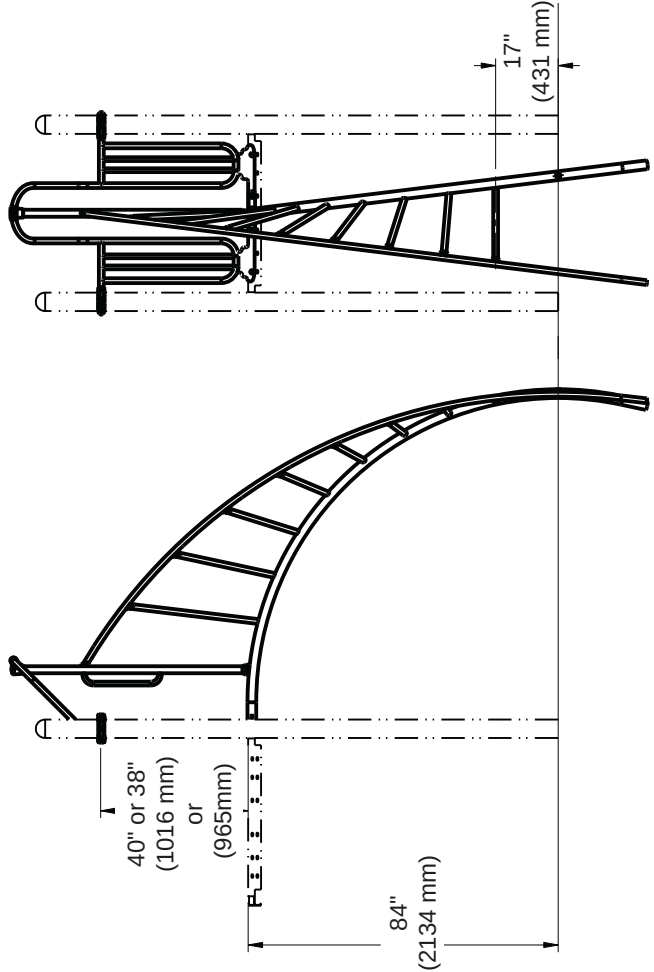
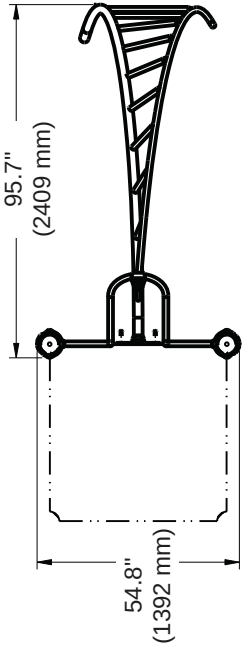
EN: 1829 mm

Installation Instructions

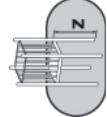
Top View



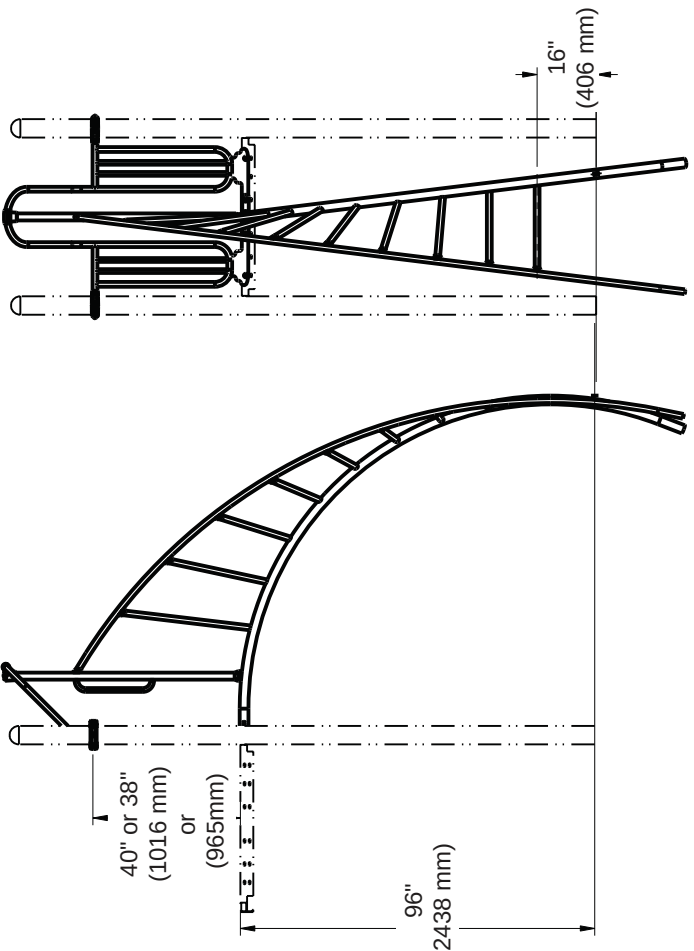
Top View



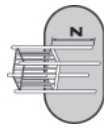
Elevation Views
ZZPM7166



EN: 2134 mm



Elevation Views
ZZPM7167

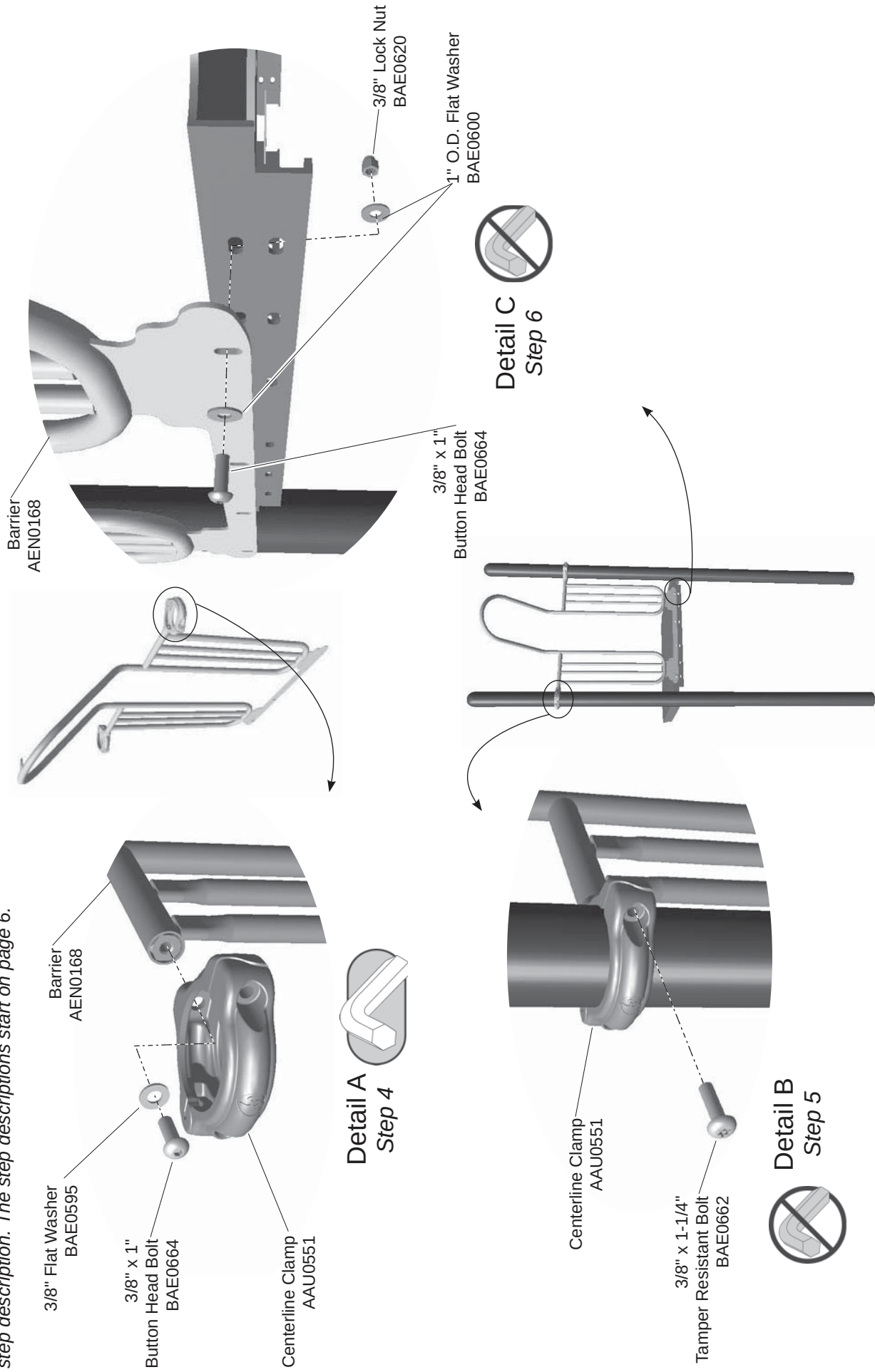


EN: 2438 mm



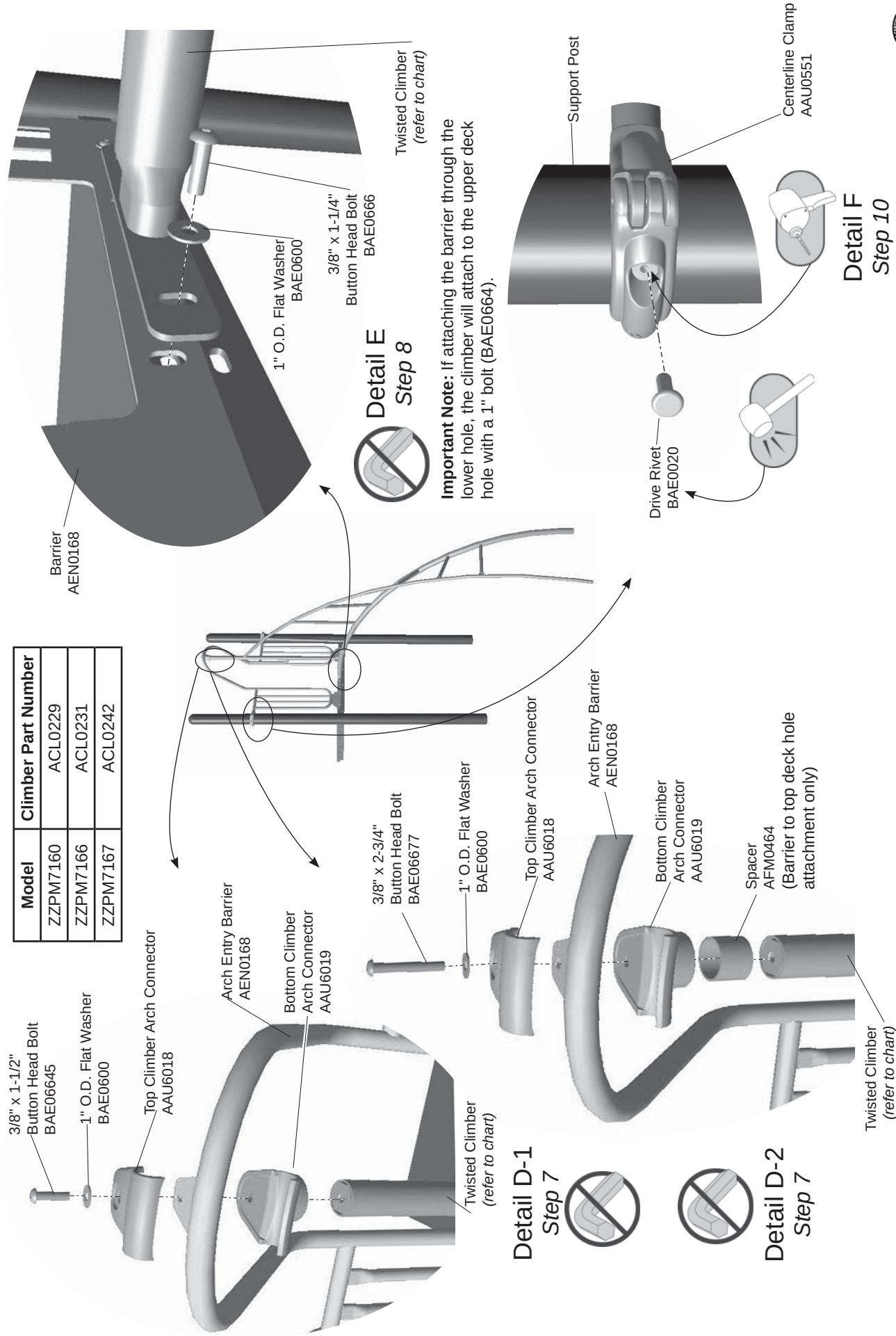
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions

Model	Climber Part Number
ZZPM7160	ACL0229
ZZPM7166	ACL0231
ZZPM7167	ACL0242



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the arch entry barrier.

___ **Step 4:** Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

___ **Step 5:** Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

___ **Step 6:** Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (2) two connections. *Attach only the outside holes*. The barrier can be attached to either the *upper* or *lower* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Note: The upper or lower deck attachment will effect connections in *Step 7*.

Attach the climber to the barrier.

___ **Step 7:** Attach the climber to the top of the barrier. See **Details D-1 and D-2**. Select the climber, the top and bottom climber connectors, the spacer, and the appropriate hardware. There is (1) one connection. Place the climber into the excavated footing. Align the climber with the holes in the barrier. If the barrier is mounted to the lower deck holes, *do not use the spacer*. Refer to **Detail D-1**. If the barrier is mounted in the *upper* set of deck holes, *use the spacer as shown*. Refer to **Detail D-2**. Do not fully tighten the connection.

___ **Step 8:** Attach the climber to the barrier/deck. See **Detail E**. Select the appropriate hardware. There are (2) two connections. Align the climber with the holes in the barrier. Attach as shown.

Important Note: If the barrier is attached through the lower hole in **Step 6**, the climber will attach to the upper deck hole with a 1" bolt (BAE06664).

Final Details.

___ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 10:** Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7160 - 6 ft. (1829 mm) TWISTED CLIMBER

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1	AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1	AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0229	CLIMBER - 6' TWISTED	1	ACL0242	CLIMBER - 8' TWISTED	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1	AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1	AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13	BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1	BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1

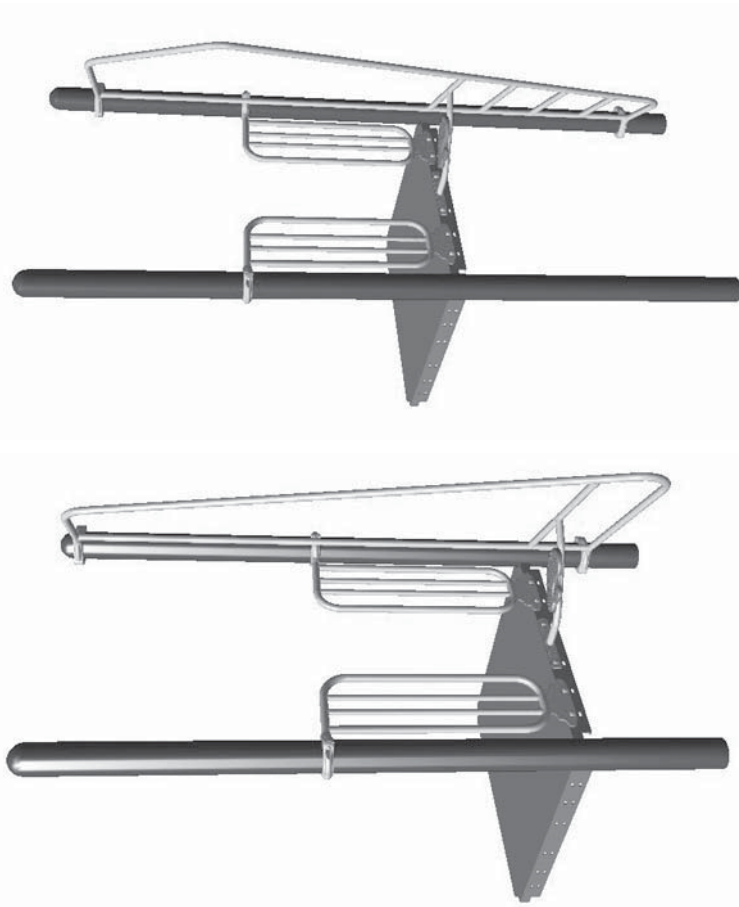
PM7166 - 7 ft. (2134 mm) TWISTED CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0231	CLIMBER - 7' TWISTED	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31.9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33.2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33.8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34.8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35.9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180, PM7189, PM7190, & PM7196

24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)

Small Angled Climber

48 in. (1219 mm) , 60 in. (1524 mm), and 72 in. (1829 mm)

Large Angled Climber

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 2 man-hours

Weight: (refer to table)

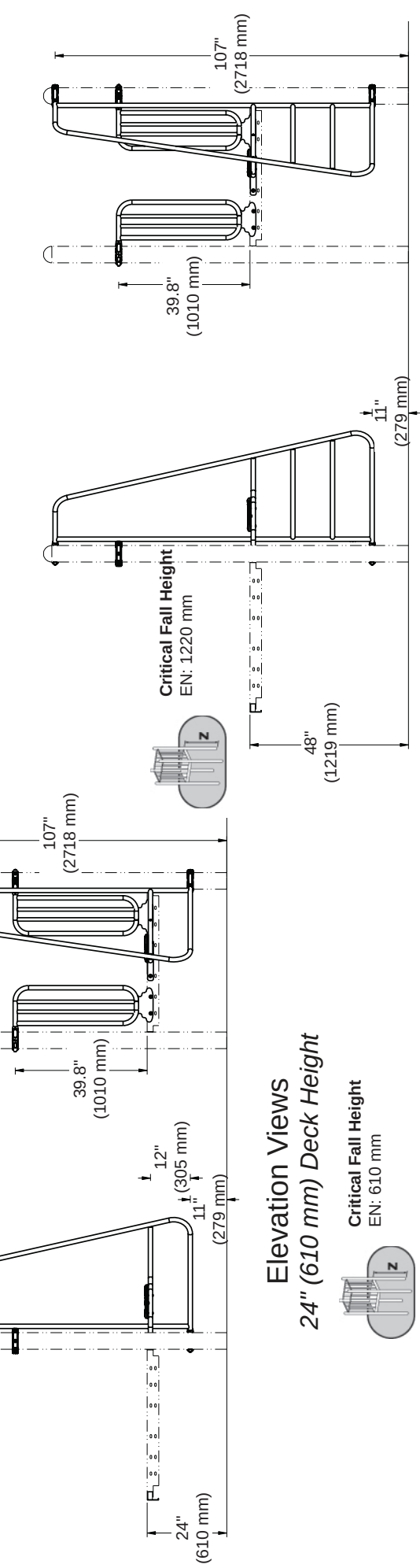
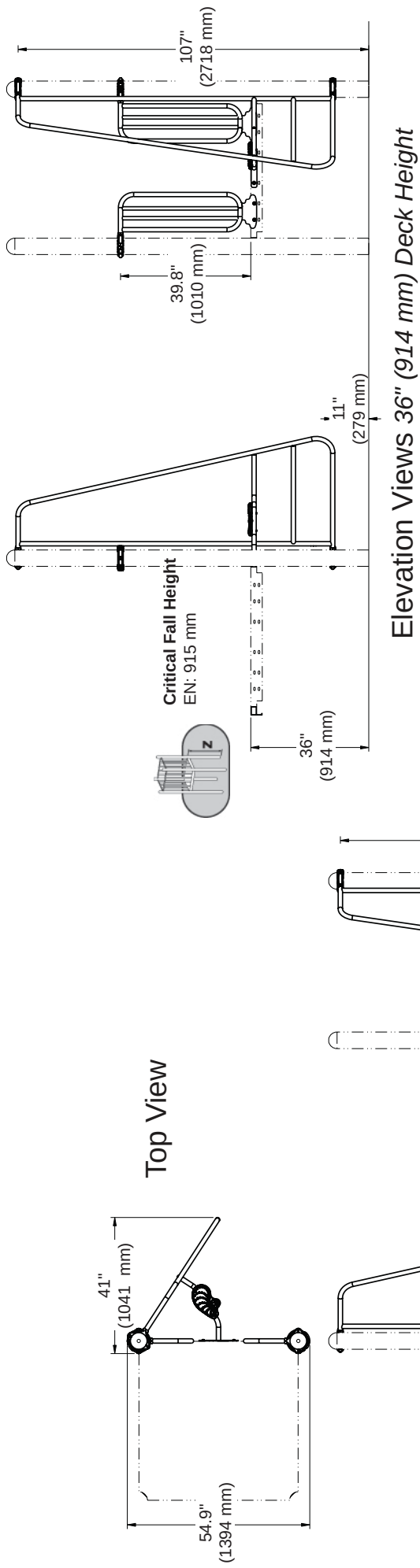
Use Zone: Refer to Master Drawing

User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

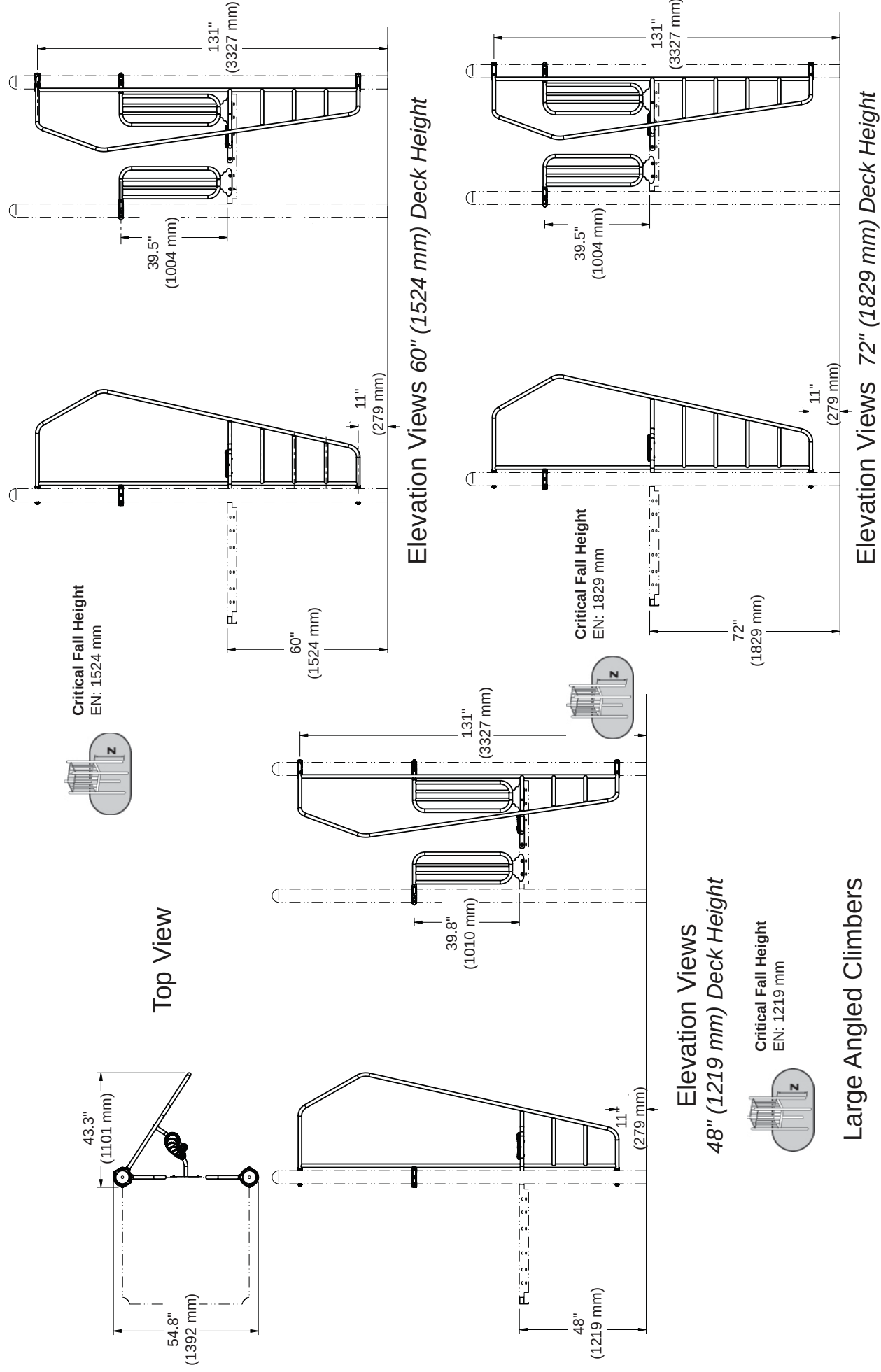
Installation Instructions



Small Angled Climbers

Elevation Views 48" (1219 mm) Deck Height

Installation Instructions



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183

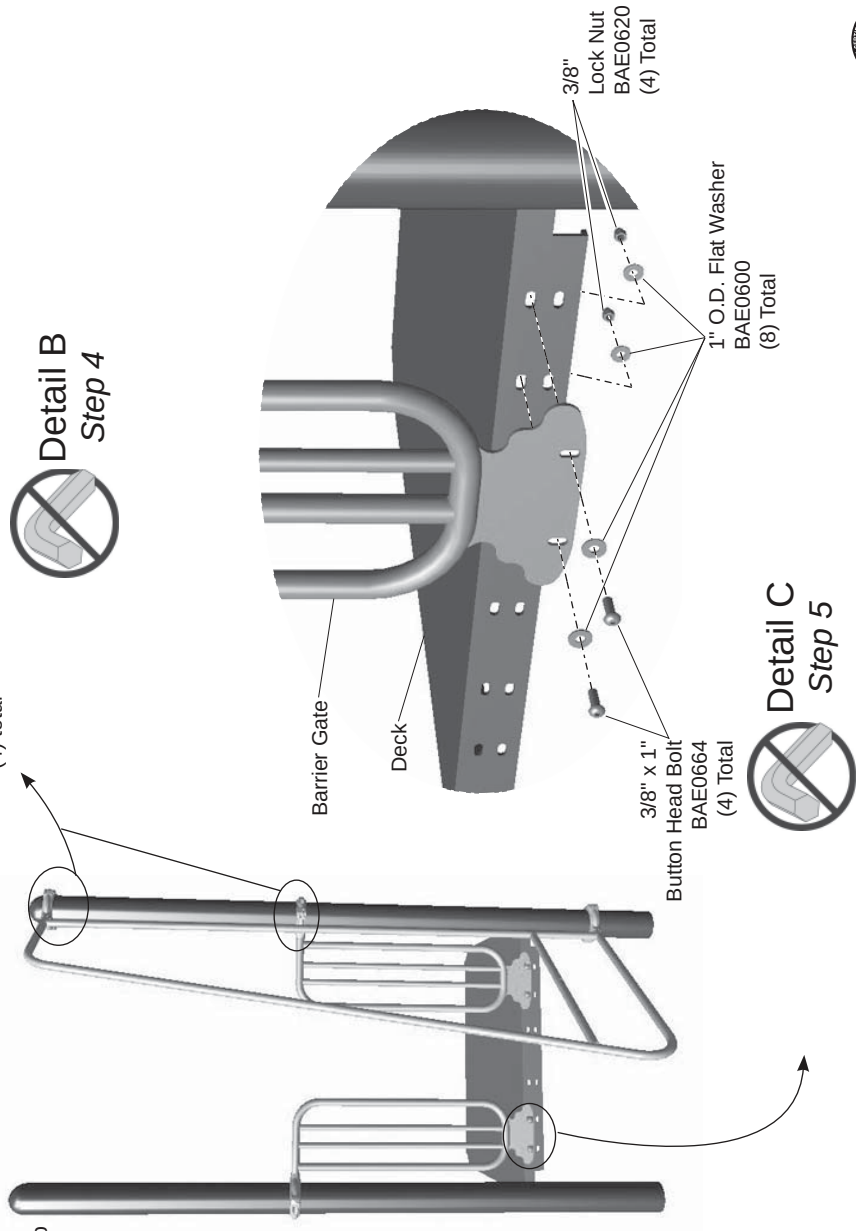
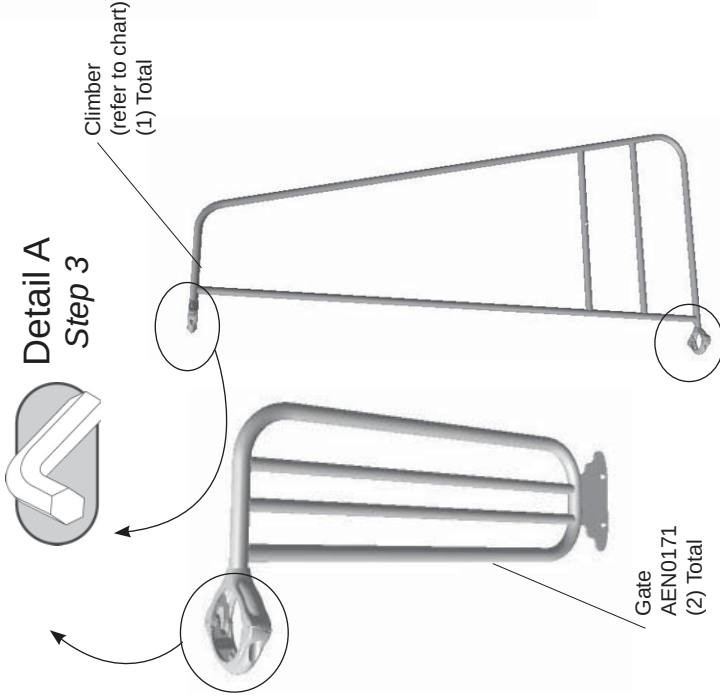
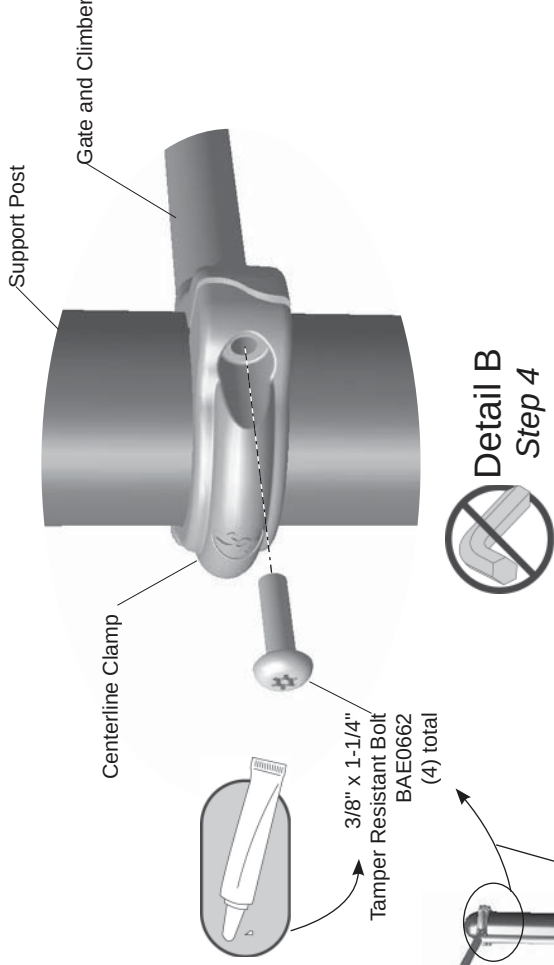
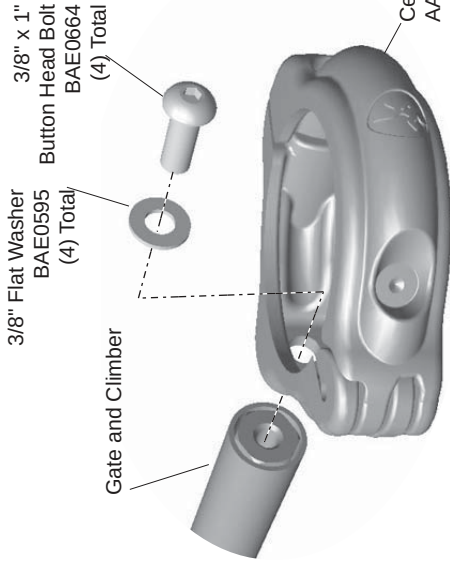


Diagram illustrating the assembly of a boat's stern/ladder area, showing various components and their installation steps.

Components and Labels:

- Bracket ABC0302 (1) Total
- "Critter" Step AAU0041
- 3/8" x 1-3/4" Button Head Bolt BAE0665 (2) Total
- 3/8" Flat Washer BAE0595 (1) Total
- 3/8" x 3/4" Button Head Bolt BAE0659 (1) Total
- Deck
- 3/8" Lock Nut BAE0620
- 1" O.D. Flat Washer BAE0600
- 3/8" x 1" Button Head Bolt BAE0664
- Bracket
- Support Post
- Centerline Clamp AAU0551
- Drive Rivet BAE0020
- 3/8" x 1-3/4" Button Head Bolt BAE0665
- Climber

Assembly Steps:

- Detail D Step 6:** Shows the bracket being attached to the deck using the 3/8" x 1-3/4" Button Head Bolt BAE0665 and the 3/8" Flat Washer BAE0595.
- Detail F Step 8:** Shows the bracket being attached to the deck using the 3/8" x 3/4" Button Head Bolt BAE0659.
- Detail G Step 10:** Shows the centerline clamp being attached to the support post using the 3/8" x 1" Button Head Bolt BAE0664 and the 3/8" Lock Nut BAE0620.

Warning: Do not install the bracket incorrectly (as shown in the crossed-out diagram).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.

Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.

Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.

Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.

Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.

Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.

Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket

Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

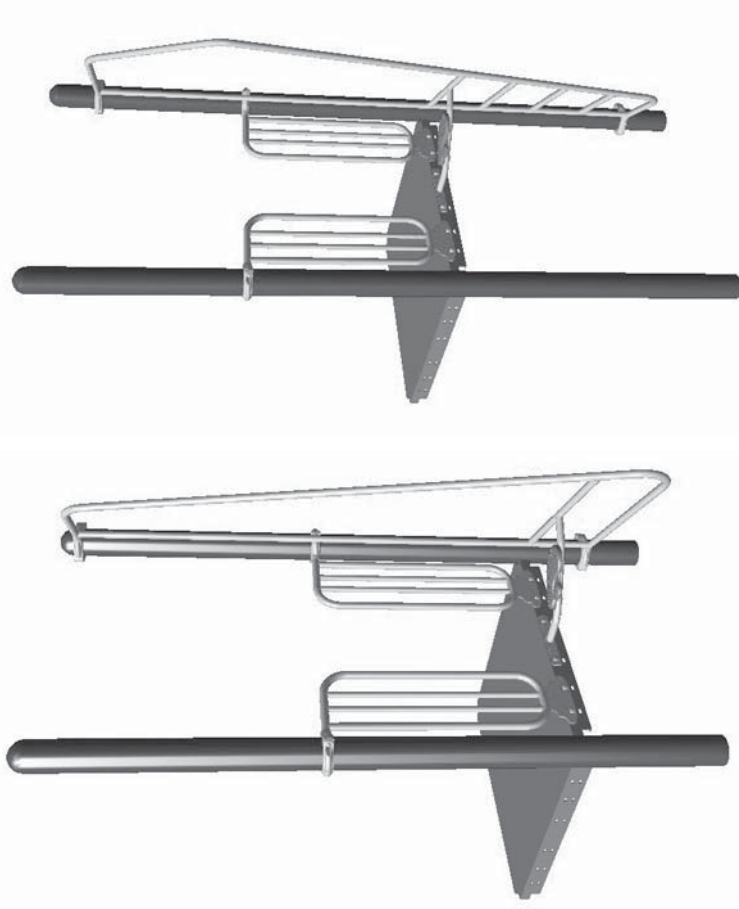
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31.9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33.2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33.8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34.8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35.9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180, PM7189, PM7190, & PM7196

24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)

Small Angled Climber

48 in. (1219 mm), 60 in. (1524 mm), and 72 in. (1829 mm)

Large Angled Climber

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 2 man-hours

Weight: (refer to table)

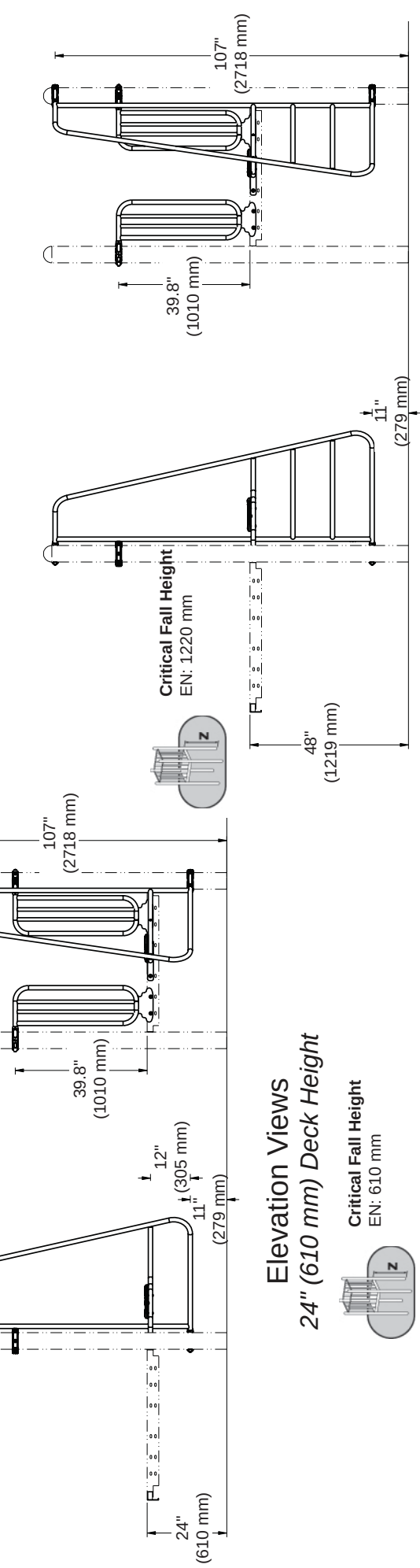
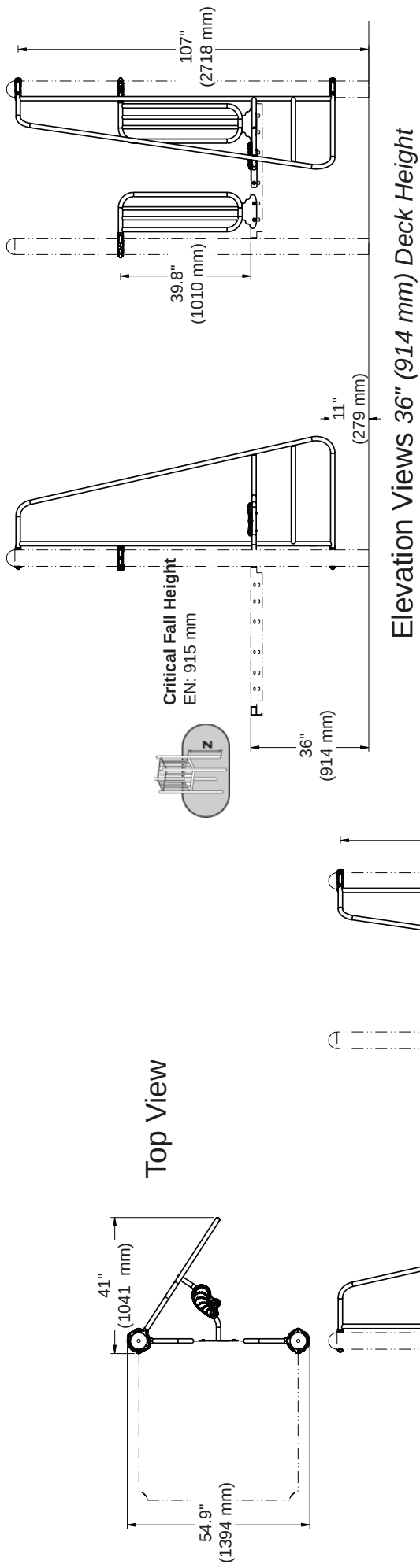
Use Zone: Refer to Master Drawing

User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

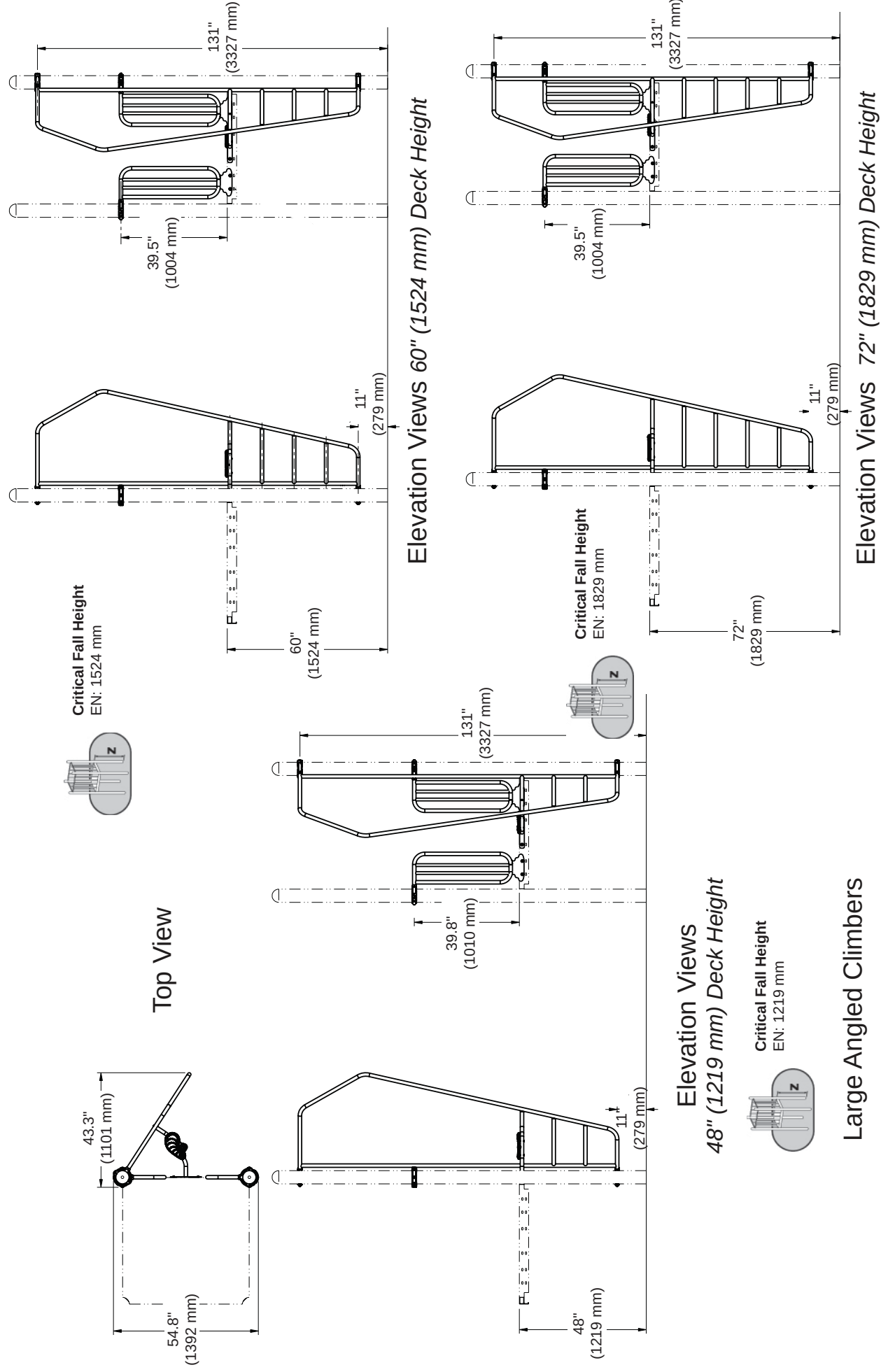
Installation Instructions



Small Angled Climbers

Elevation Views 48" (1219 mm) Deck Height

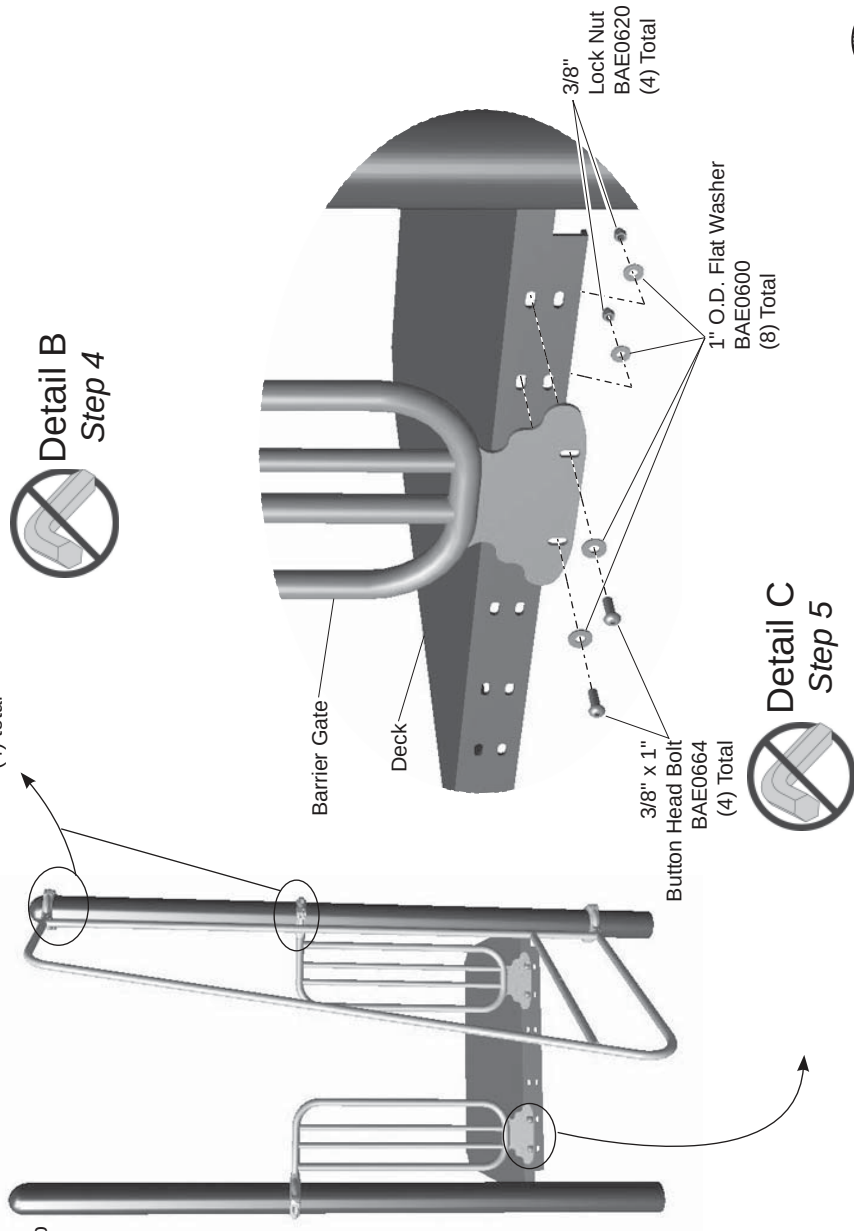
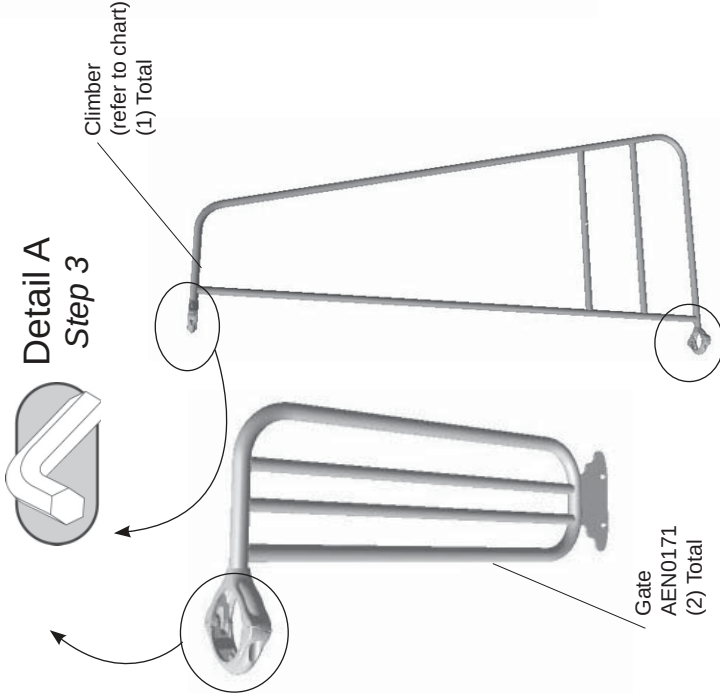
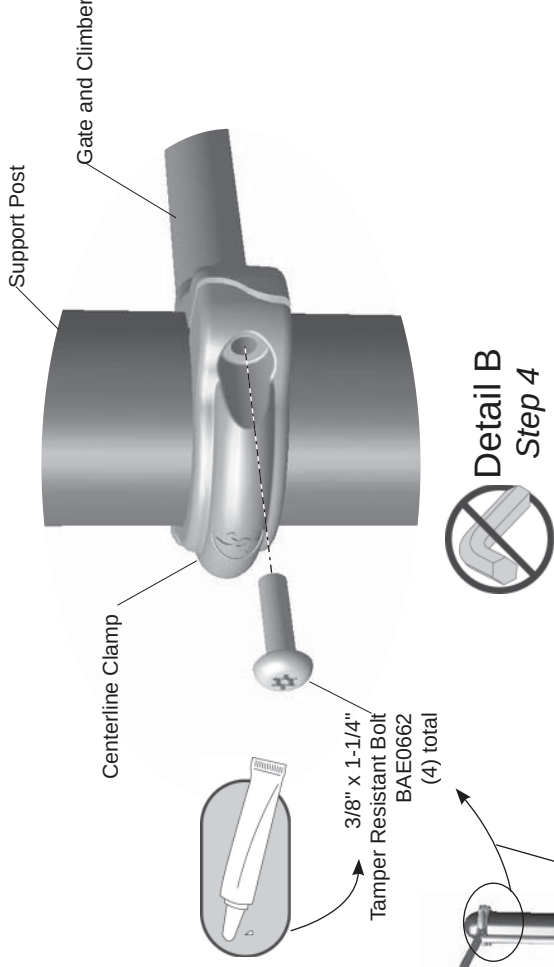
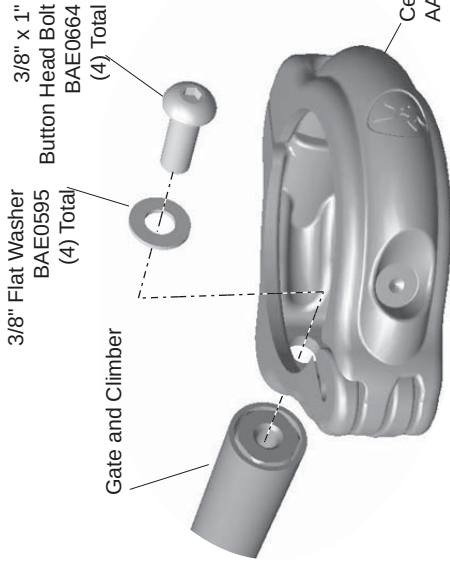
Installation Instructions



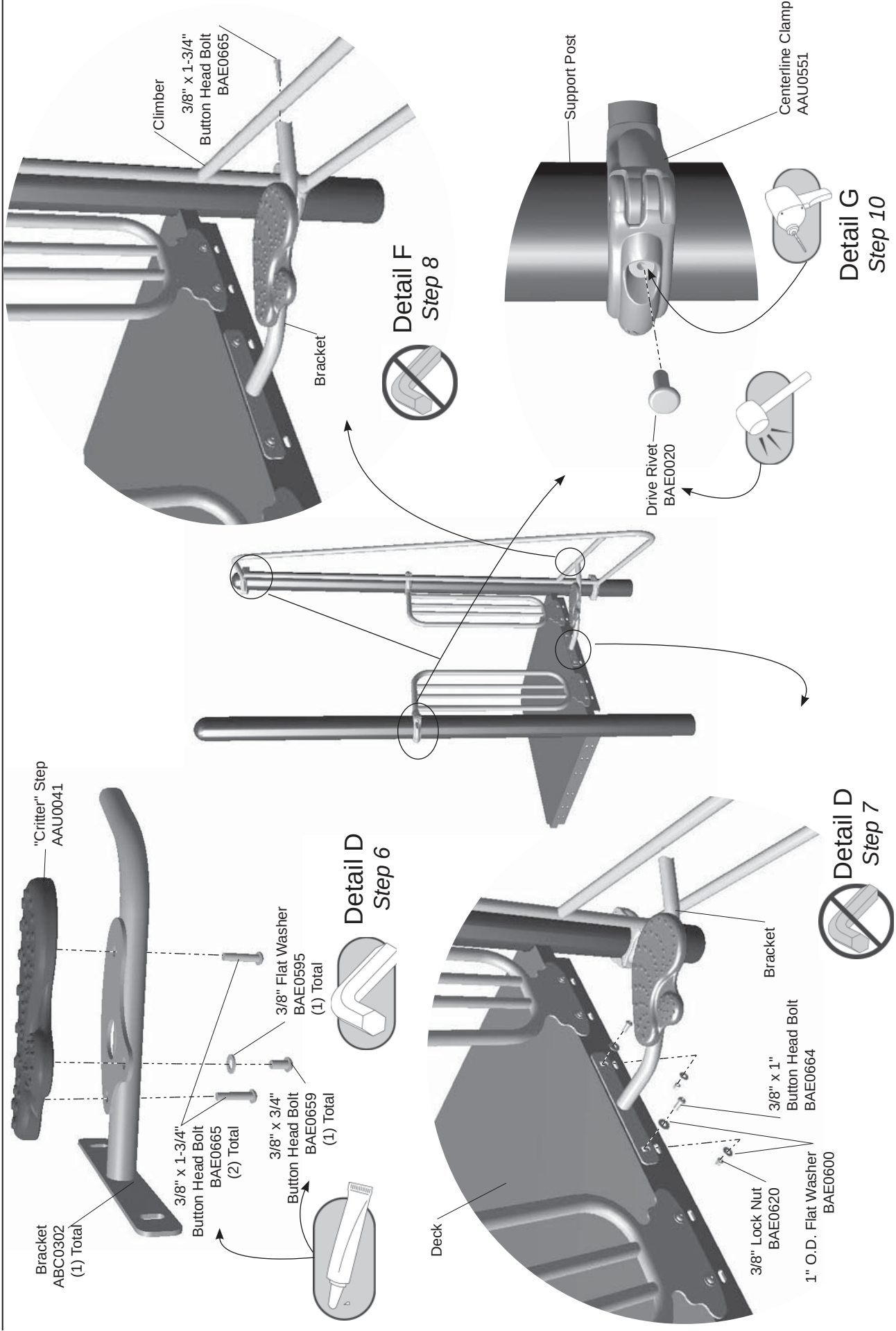
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.

Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.

Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.

Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.

Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.

Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.

Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket

Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK		
PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3



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Installation Instructions Playmakers® Models PM8100-PM8130 Beanstalk Climber 36 in. (914 mm) to 72 in. (1829 mm) decks

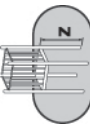


Assembly View (representative model)

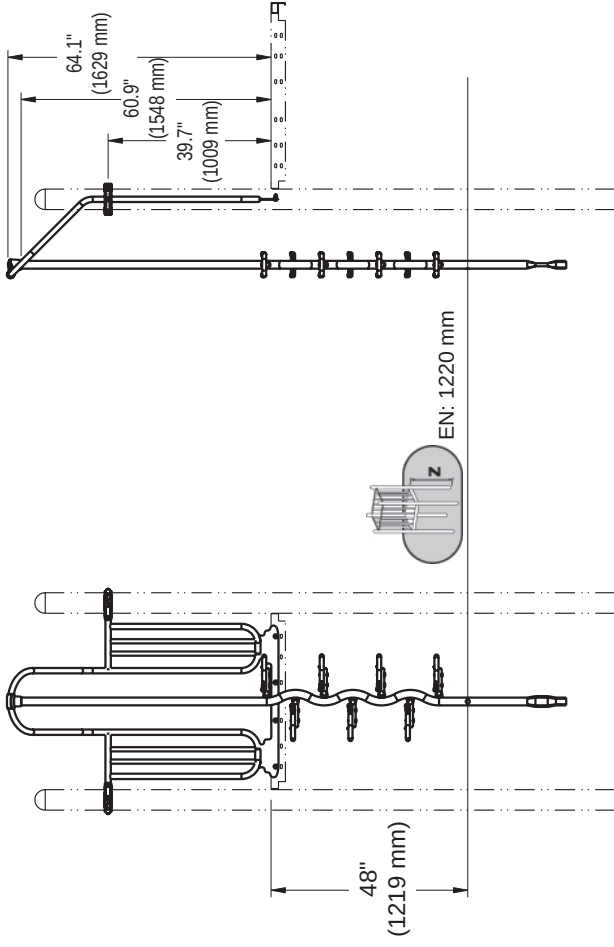
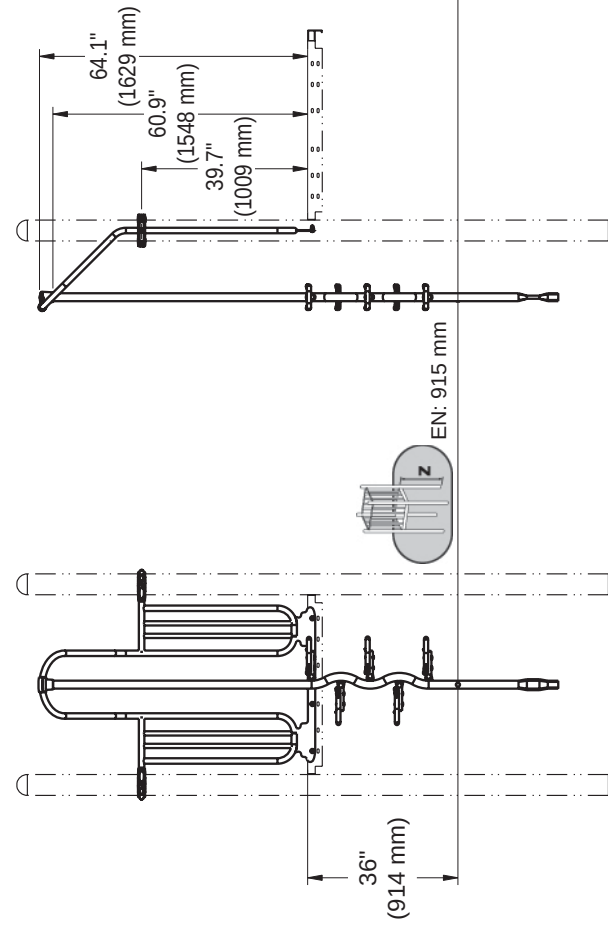
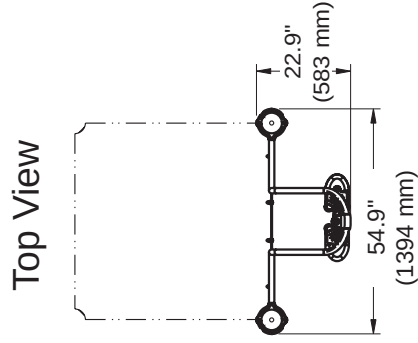
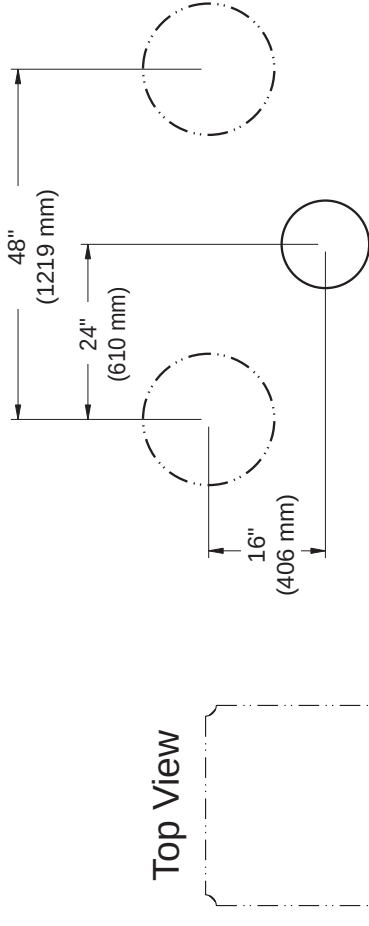
Model	Deck Height	Weight
ZZPM8100	36" (915 mm)	81.4 lbs. (37 kg)
ZZPM8110	48" (1220 mm)	89.1 lbs. (40,5 kg)
ZZPM8120	60" (1525 mm)	97.2 lbs. (44,2 kg)
ZZPM8130	72" (1830 mm)	104.3 lbs. (47,4 kg)

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: (refer to table)
 Concrete Required: 0.3 cubic yard (0,2 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

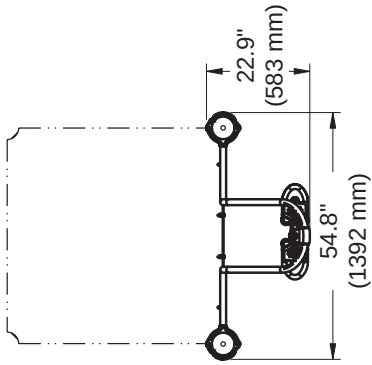


Elevation Views
ZZPM8100

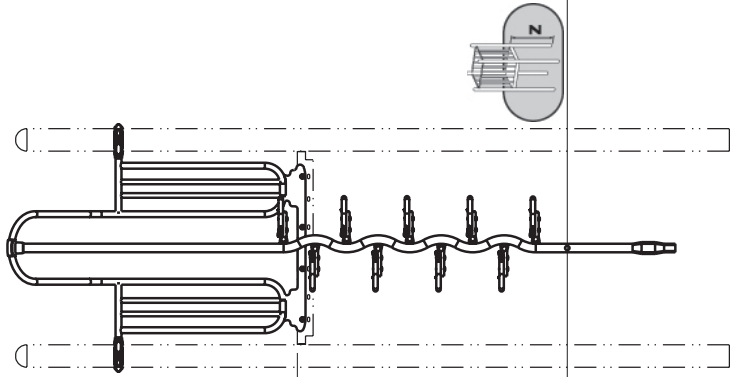
Elevation Views
ZZPM8110

Installation Instructions

Top View

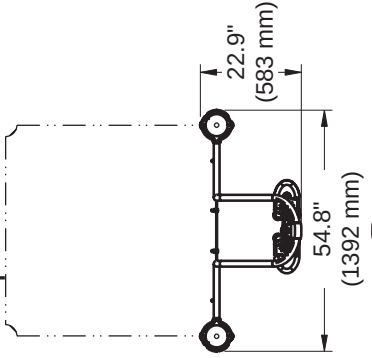


60" (1524 mm)

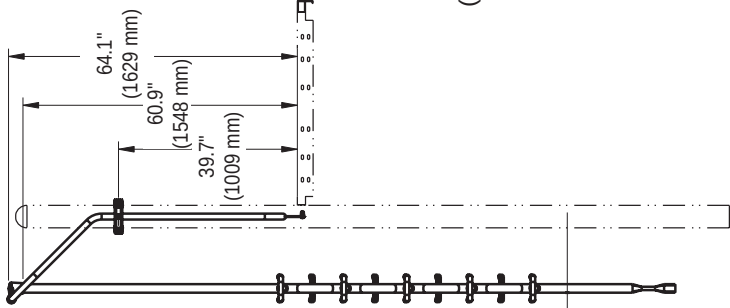


Elevation Views
ZZPM8120

Top View



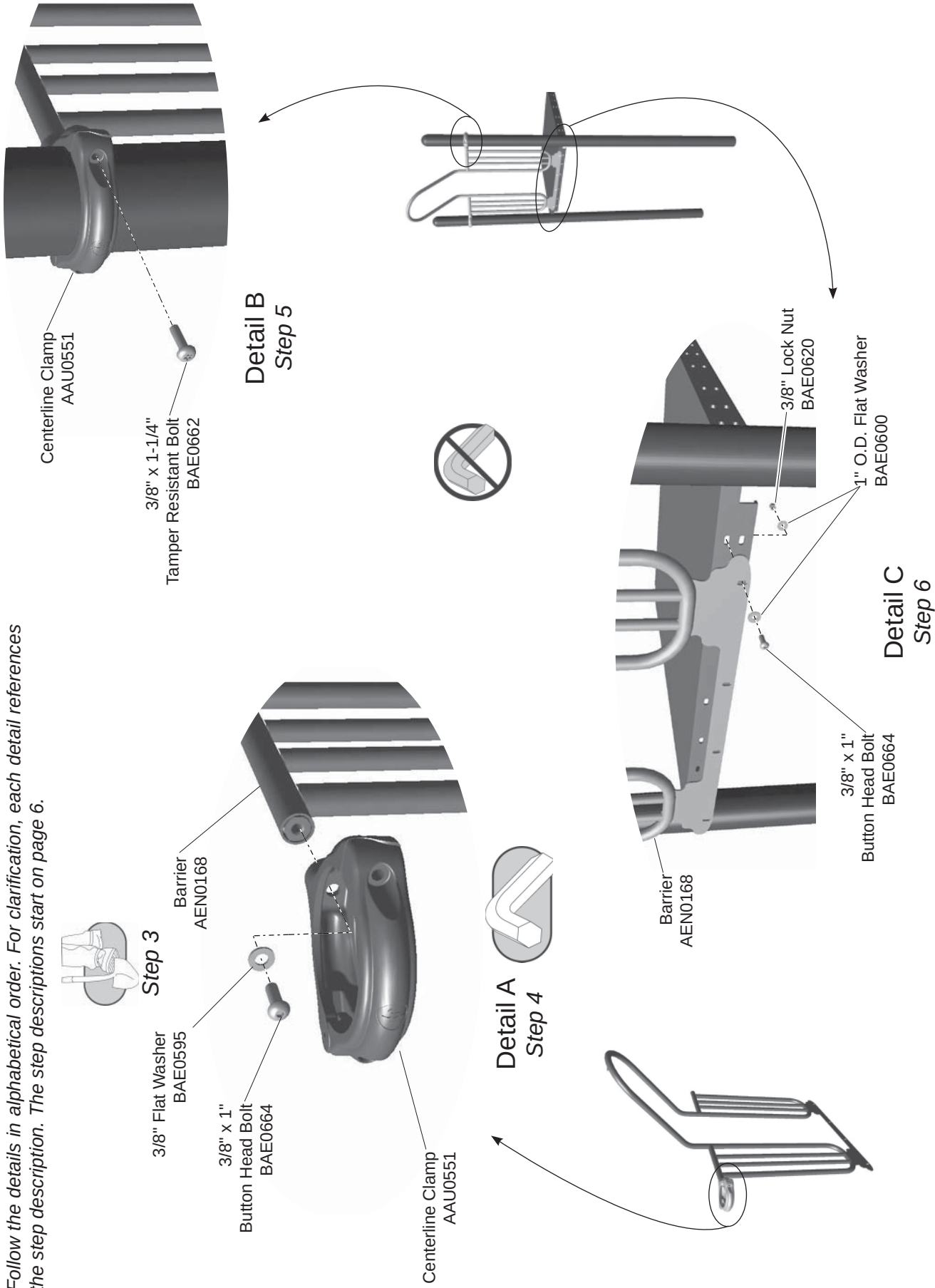
72" (1829 mm)



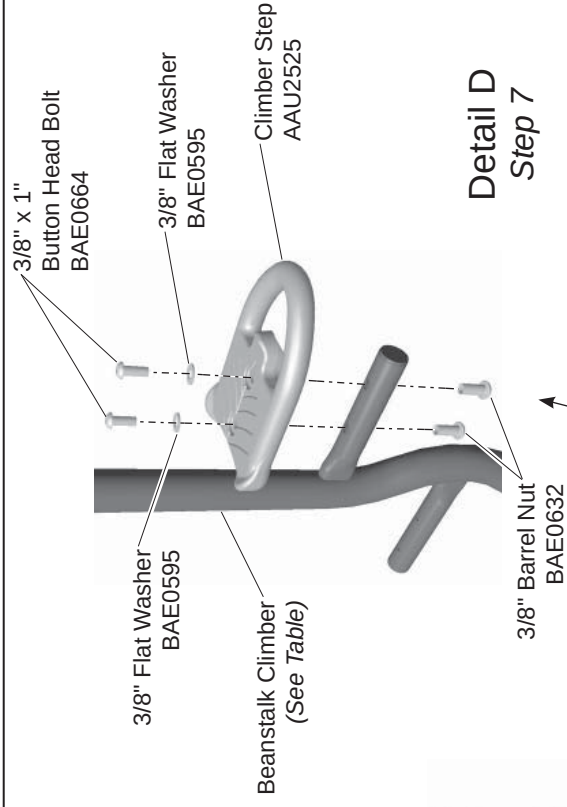
Elevation Views
ZZPM8130

Installation Instructions

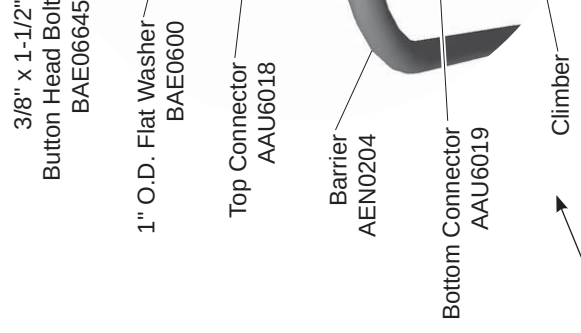
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



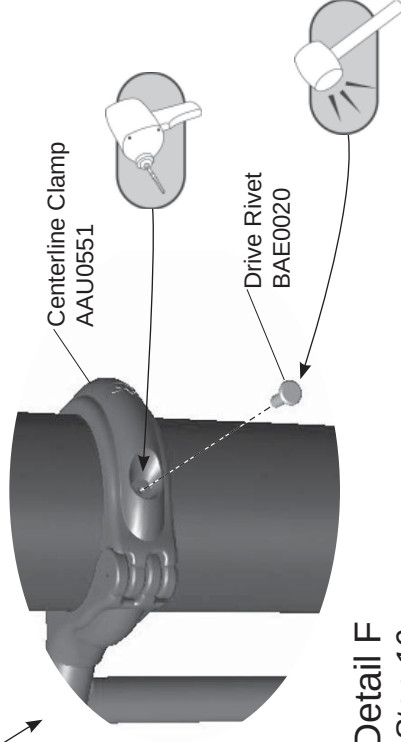
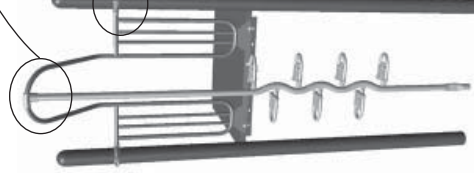
Detail D
Step 7



Detail E
Step 8



Step 9



Detail F
Step 10

Climber Deck Height	Climber Part Number	Number Of Step/Handles
36 in. (914 mm)	ACL0047	5
48 in. (1219 mm)	ACL0048	7
60 in. (1524 mm)	ACL0049	9
72 in. (1829 mm)	ACL0050	11



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only *snug* tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

Attach the centerline clamps to the arch entry barrier.

___ **Step 4:** Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the arch entry barrier, (2) two clamps, and the appropriate hardware. Position the socket of the clamp over the threaded portion of the barrier top rail, make and fully tighten connections as shown. Ensure the clamps face the same direction.

Attach the centerline clamps to the support posts.

___ **Step 5:** Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift the barrier into position against deck, close the clamps around the posts and attach as shown.

Attach the barrier to the deck.

___ **Step 6:** Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. The arch entry barrier can be attached to either *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Select the desired set of holes and attach as shown.

Attach the step/handle to the climber.

___ **Step 7:** Attach the step/handle to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* of step/handles (see *the table on the detail page*), and the appropriate amount of hardware. There are (2) **two** connections per step. Position each step onto a climber branch and attach as shown.

Attach the climber to the barrier.

___ **Step 8:** Attach the climber to the barrier. See **Detail E**. Select the climber assembly, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the deck as shown in **Elevation Views**.

Final Details.

___ **Step 9:** Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

___ **Step 10:** Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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Bill of Materials

ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	5
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0047	CLIMBER - 36" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	9
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0049	CLIMBER - 60" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	7
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0048	CLIMBER - 48" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	11
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0050	CLIMBER - 72" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



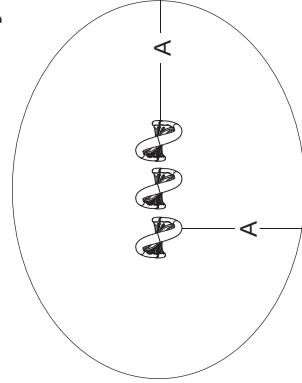


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Assembly View (reference view)



Stationary Play Equipment Use Zone
A Whirlwind Use Zone
ASTM: 72 in. (1829 mm)
CSA: 1800 mm
(EN) 1500 mm - 1715 mm
(Refer to the elevation views pages 2-4)

Installation Instructions Playworld Systems Models UN6736-UN6740 Whirlwind 24 in. (610 mm) to 72 in. (1829 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 0.25 hour per section
..... 1 hour per footing
Weight: See table below
Concrete Required: 0.23 cubic yard (0.18 cubic meters)
Use Zone: Refer to the Use Zone Diagram
User Age Group: ASTM/CSA: 5-12, EN: 6-14

ICON KEY

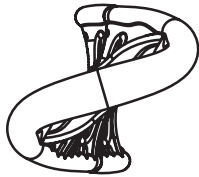
	Fully Tighten Hardware		Dig Footing Holes
			Pour Concrete

Model Number	Height	Weight
ZZUN6736	24 in. (610 mm)	113.6 lbs. (51.6 kilos)
ZZUN6737	36 in. (914 mm)	132.7 lbs. (60.3 kilos)
ZZUN6738	48 in. (1219 mm)	151.7 lbs. (68.9 kilos)
ZZUN6739	60 in. (1524 mm)	170.7 lbs. (77.6 kilos)
ZZUN6740	72 in. (1829 mm)	189.8 lbs. (86.3 kilos)



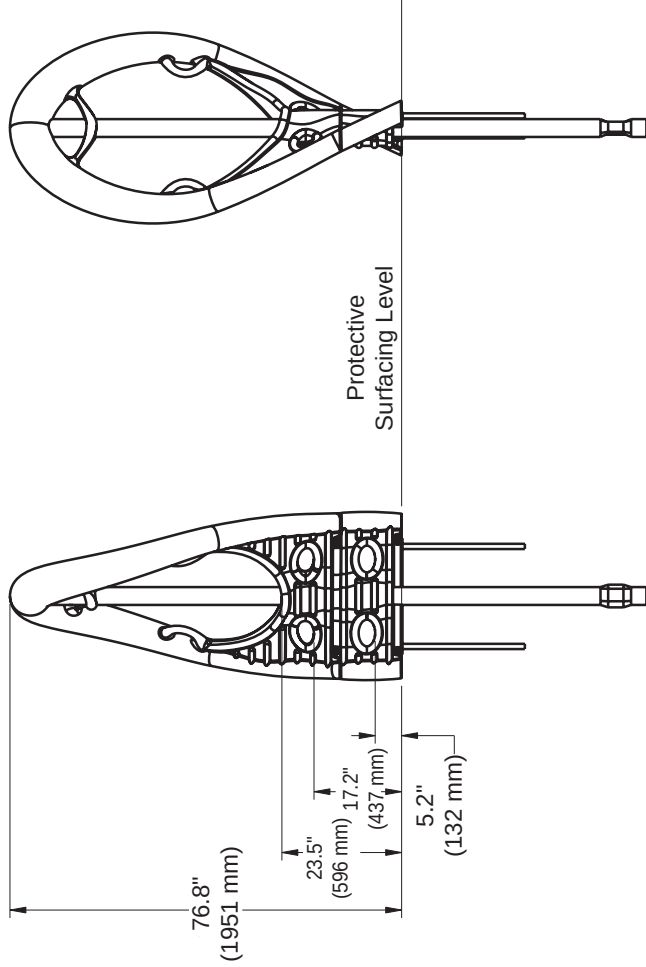
Installation Instructions

Top View

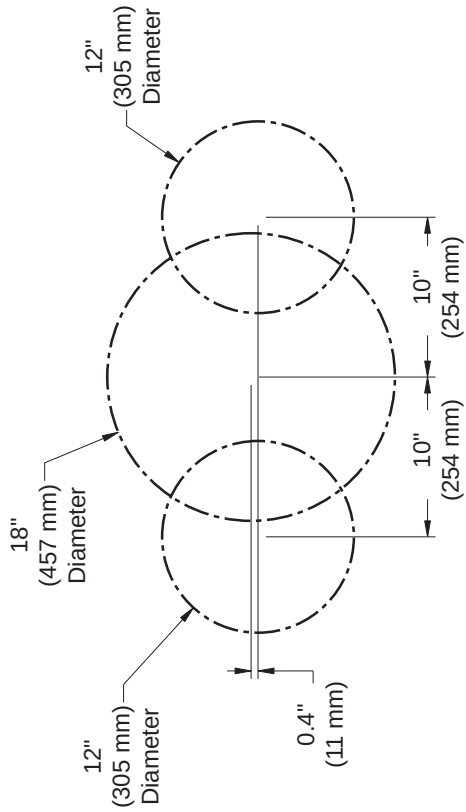


ASTM/CSA
Fall Height: 596 mm

Europe Only
Fall Height: 596 mm
Use Zone: 1500 mm



Elevation View
24 in. (610 mm) Height

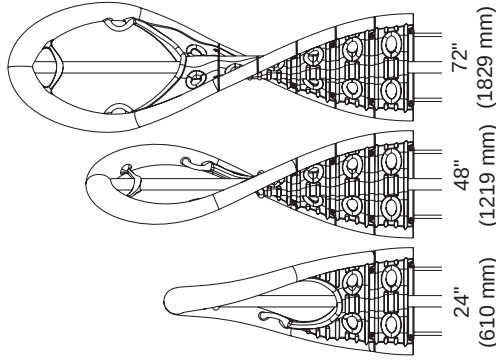


Footing Diagram
(See *Note below)

Refer to the GroundZero Support Post Footing Detail for the center post hole and the Component Post Footing Detail for the side legs. Details are in the annex at the end of this document.

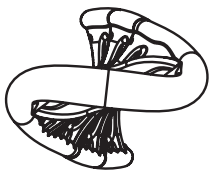
***Note:** Multiple footings require a distance of 3 ft. (914 mm) from center to center and will be laid out in a straight line. Reference the master layout drawing for exact locations of the footings.

Important Note:
The tops of climbers of differing heights will NOT have the top "eye" facing the same direction. The bases must all be in a straight line.



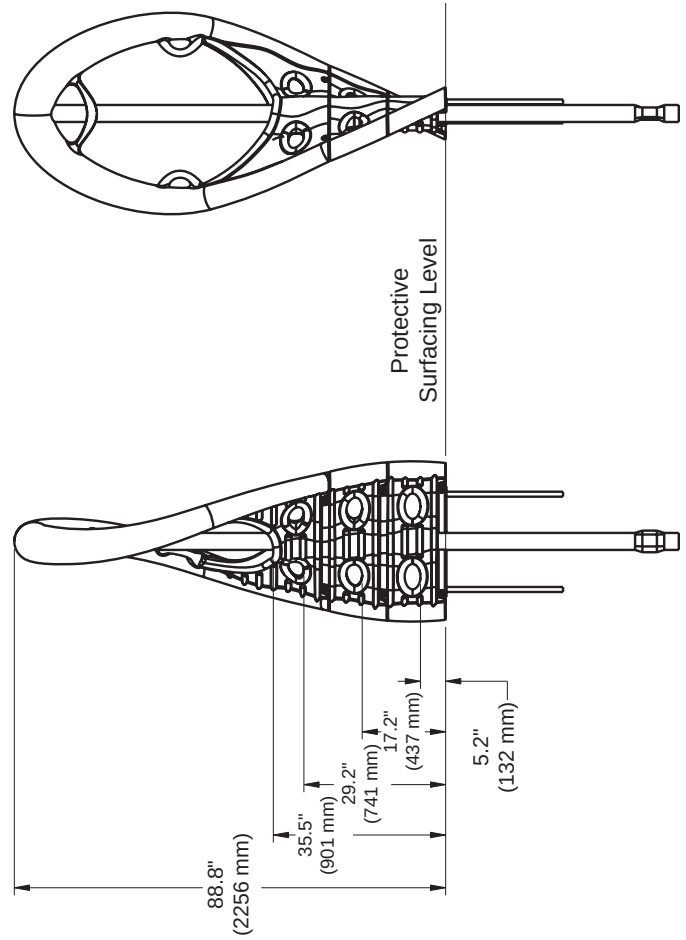
Installation Instructions

Top View



ASTM/CSA
Fall Height: 901 mm

Europe Only
Fall Height: 901 mm
Use Zone: 1500 mm



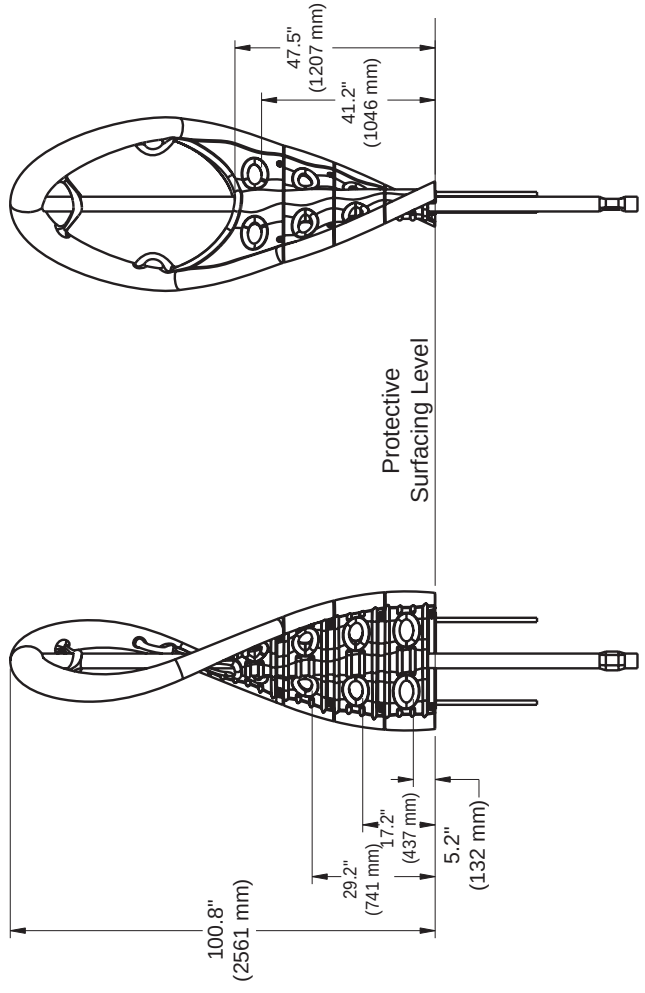
Elevation View
36 in. (914 mm) Height

Top View



ASTM/CSA
Fall Height: 1207 mm

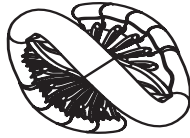
Europe Only
Fall Height: 1207 mm
Use Zone: 1500 mm



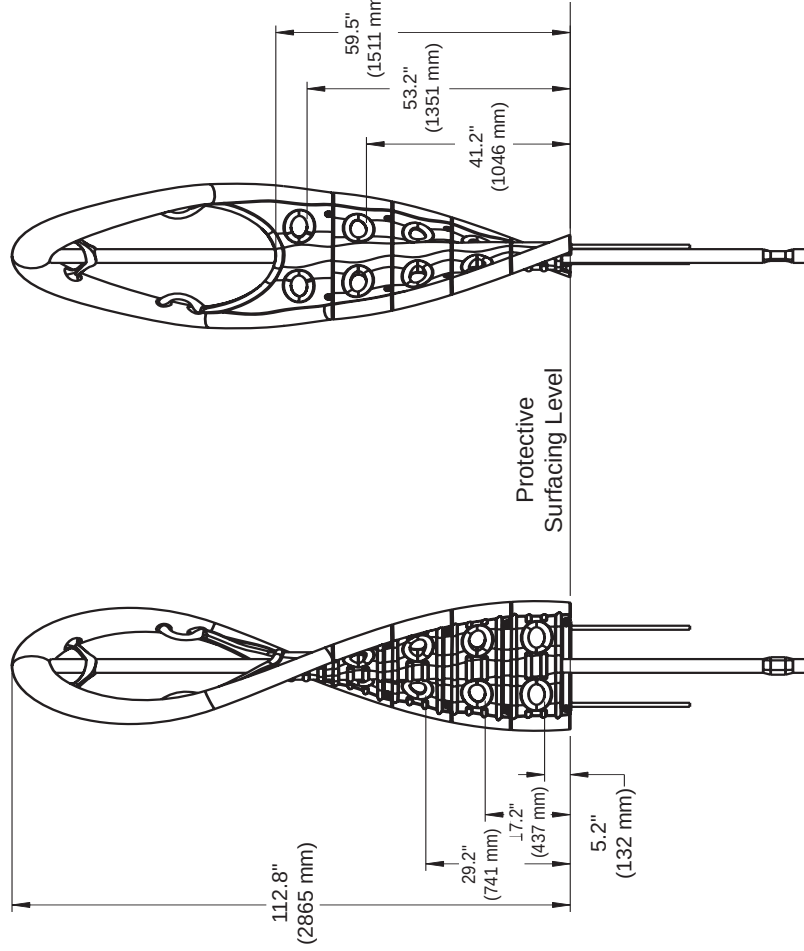
Elevation View
48 in. (1219 mm) Height

Installation Instructions

Top View



ASTM/CSA Fall Height: 1511 mm
Europe Only Fall Height: 1511 mm Use Zone: 1510 mm

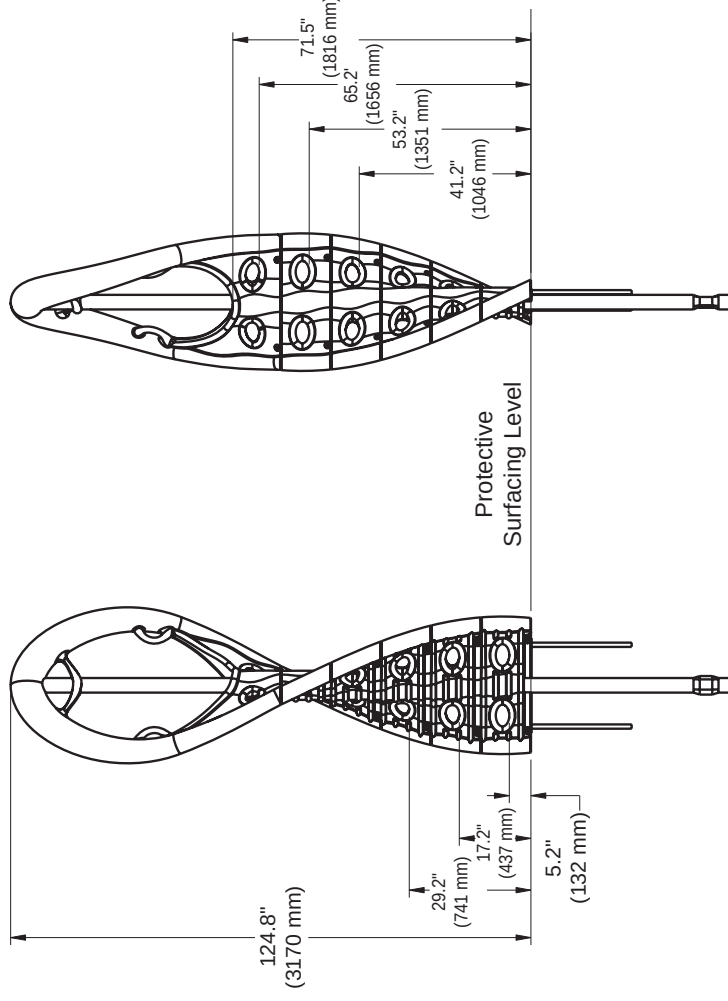


Elevation View
60 in. (1524 mm) Height

Top View



ASTM/CSA Fall Height: 1816 mm
Europe Only Fall Height: 1816 mm Use Zone: 1715 mm



Elevation View
72 in. (1829 mm) Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Step 3

Base Section
BPL0082

3/8" x 7/16"
Button Head Nut
BAE0663

1" O.D. Flat Washer
BAE0600

**Detail A
Step 4**

Support Post
(See Table)

3/8" x 1" Button Head Bolt
BAE0664

1" O.D. Flat Washer
BAE0600

**Detail B
Step 5**

Base Section
BPL0082

3/8" x 1-1/2" Button Head Bolt
BAE06645

1" O.D. Flat Washer
BAE0600

Step 7

Top Section
BPL0081
or
Base Section
BPL0082

3/8" x 7/16"
Button Head Nut
BAE0663

1" O.D. Flat Washer
BAE0600

Reference A/B

Surface Warning
Label Placement

**Detail C
Step 8**

Whirlwind Model	Support Post Part Number	Number Of Base Sections
ZZUN6736	APT0447	1
ZZUN6737	APT0448	2
ZZUN6738	APT0449	3
ZZUN6739	APT0450	4
ZZUN6740	APT0451	5



Installation Instructions

A Note Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate holes as shown in the **Footing Details**. See the note below the **Footing Diagram** for information on multiple footings. Reference the master layout drawing for exact number and location of the footings. Fully assemble each climber on the ground before placing in the footing.

Attach a base section to the support post.

Note: The sections have a *ribbed* side and a *smooth* side. Match the sides as each section is added.

Step 4: Attach a base section to the support post. See **Detail A**. Select the support post, a base section, and the appropriate hardware. Slide a base section onto the support post until fully seated on the bracket at the bottom of the post. Make connections as shown. There are (2) two connections. Fully tighten the connections.

Note: If the climber contains more than one base section, follow the next step for attaching the base sections together. See *the table on page 5 for correct number of base sections per model*. If the climber contains only one base section, go to **Step 6** for attachment of the top section.

Attach another base section to the climber.

Step 5: Attach another base section to the climber. See **Detail B**. Select another base section and the appropriate hardware. Slide the next base section onto the top of the lower section and make connections as shown. There are (2) two connections. Fully tighten the connections ensuring the sections are fully seated with no gaps showing. Repeat this procedure for the remaining base sections.

Attach the top section to the climber.

Step 6: Attach the top section to the climber. See **Detail B**. Select the top section and the appropriate hardware. Slide the top section onto the top of the lower section and make connections as shown. There are (2) two connections. The top of the support post will fit into the upper portion of the top section. Fully tighten the connections ensuring the sections are fully seated.

Final Details.

Step 7: With adequate manpower, place the climber into the prepared footing. Plumb and level the entire component. Block and brace for concrete. Pour the concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Apply the Surface Warning label.

Step 8: Apply the Surfacing Warning label to the climber post at the place designated in **Detail C**. Surface must be clean and dry before applying the label. Remove back sheet from label and apply label in position. Use the back sheet to rub the label until it's smooth. Apply one label per grouping of climbers. For areas complying with ASTM and CSA, an age appropriate label should be applied to the structure at a visible location.

Bill of Materials

ZZUN6736 - 24 in. (610 mm) WHIRLWIND

PART NO.	DESCRIPTION
APT0447	POST - 3-1/2" O.D. x 120.00" w/ BRACKET
BAE0600	WASHER - 1" O.D. FLAT
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS
BAE0922	TOOL - TT 45 L WRENCH
BPL0081	CLIMBER - TWISTING TOP
BPL0082	CLIMBER - TWISTING BASE
ALB0025	LABEL - ASTM AGE APPROPRIATE

QTY.
1
4
4
2
2
1
1
1
1

PART NO.	DESCRIPTION
APT0450	POST - 3-1/2" O.D. x 156.00" w/ BRACKET
BAE0600	WASHER - 1" O.D. FLAT
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS
BAE0922	TOOL - TT 45 L WRENCH
BPL0081	CLIMBER - TWISTING TOP
BPL0082	CLIMBER - TWISTING BASE
ALB0025	LABEL - ASTM AGE APPROPRIATE

QTY.
1
10
10
2
8
1
1
4
1

ZZUN6739 - 60 in. (15241mm) WHIRLWIND

ZZUN6737 - 36 in. (914 mm) WHIRLWIND

PART NO.	DESCRIPTION
APT0448	POST - 3-1/2" O.D. x 132.00" w/ BRACKET
BAE0600	WASHER - 1" O.D. FLAT
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS
BAE0922	TOOL - TT 45 L WRENCH
BPL0081	CLIMBER - TWISTING TOP
BPL0082	CLIMBER - TWISTING BASE
ALB0025	LABEL - ASTM AGE APPROPRIATE

QTY.
1
6
6
2
4
1
1
2
1

PART NO.	DESCRIPTION
APT0451	POST - 3-1/2" O.D. x 168.00" w/ BRACKET
BAE0600	WASHER - 1" O.D. FLAT
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS
BAE0922	TOOL - TT 45 L WRENCH
BPL0081	CLIMBER - TWISTING TOP
BPL0082	CLIMBER - TWISTING BASE
ALB0025	LABEL - ASTM AGE APPROPRIATE

QTY.
1
12
12
2
10
1
1
5
1

ZZUN6738 - 48 in. (1219 mm) WHIRLWIND

PART NO.	DESCRIPTION
APT0449	POST - 3-1/2" O.D. x 144.00" w/ BRACKET
BAE0600	WASHER - 1" O.D. FLAT
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS
BAE0922	TOOL - TT 45 L WRENCH
BPL0081	CLIMBER - TWISTING TOP
BPL0082	CLIMBER - TWISTING BASE
ALB0025	LABEL - ASTM AGE APPROPRIATE

QTY.
1
8
8
2
6
1
1
3
1



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Equipment Maintenance Playworld Systems

Models UN6736-UN6740

Whirlwind

24 in. (610 mm) to 72 in. (1829 mm)



Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Fasteners

Inspect for loose fasteners. Tightening torque specifications are:

Bolts and Nuts: Snug tighten and tighten an additional one-half turn.

- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service at 1-800-233-8404 for replacement part.



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INSPECTION FORM

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.

- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

- ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.

- CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.

- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorberency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

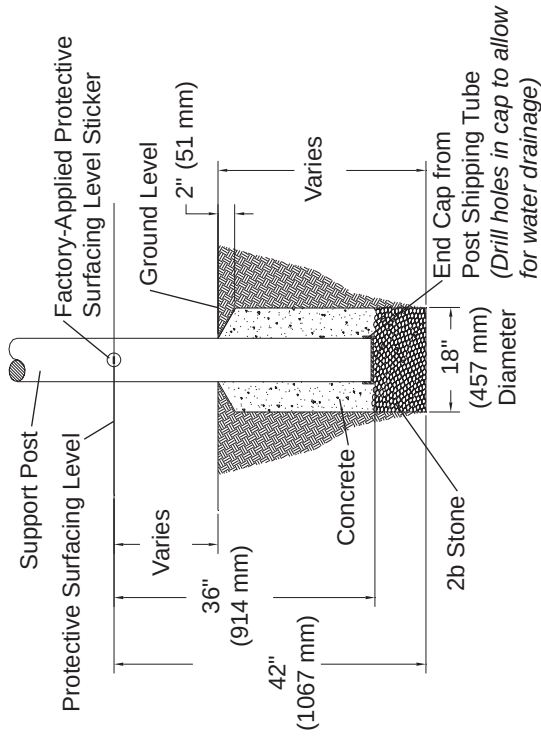
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

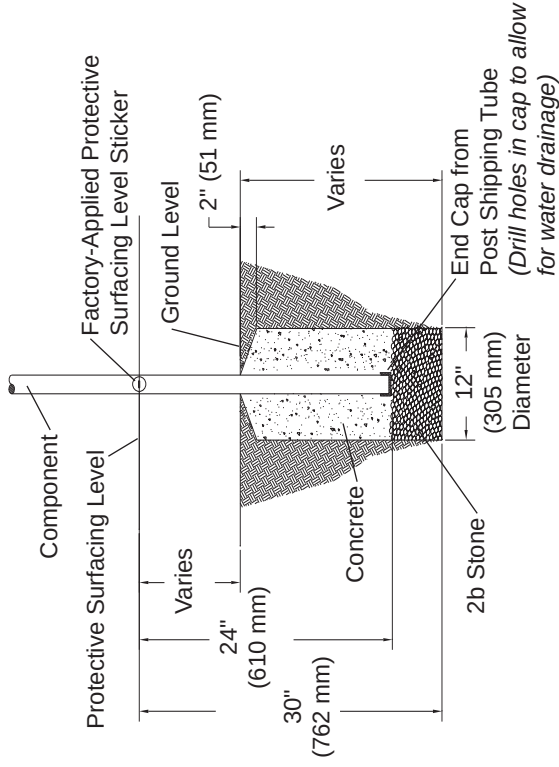
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

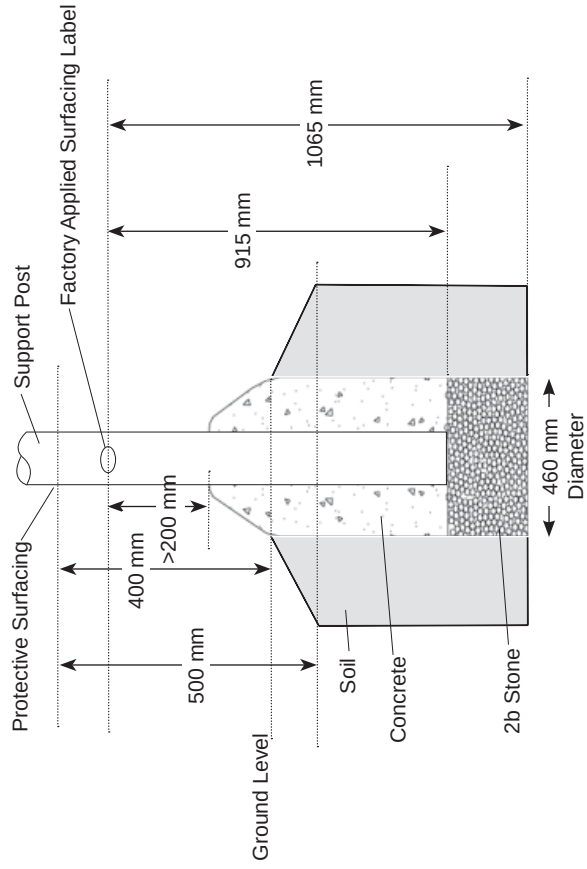
Footing Details (in ground)



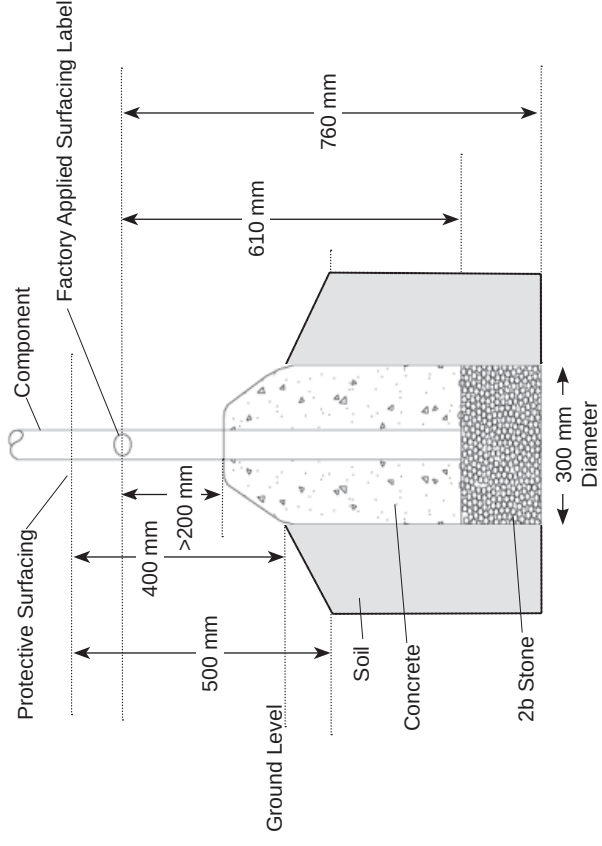
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

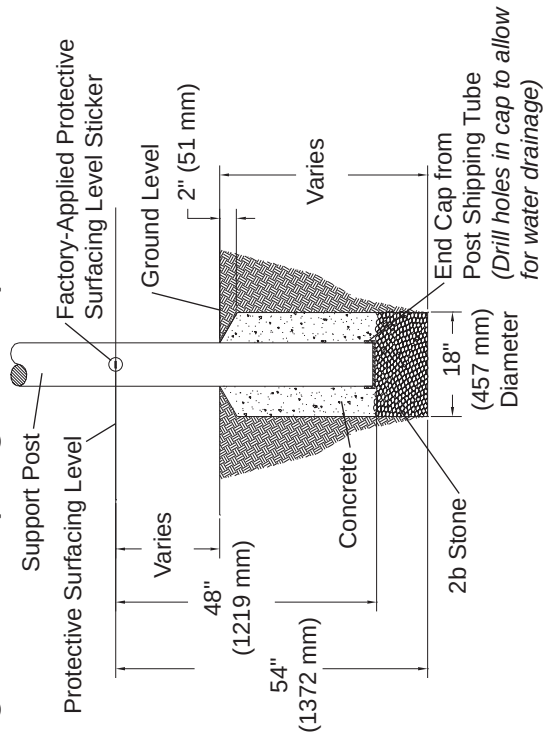


Footing Detail - Support Post (EN)

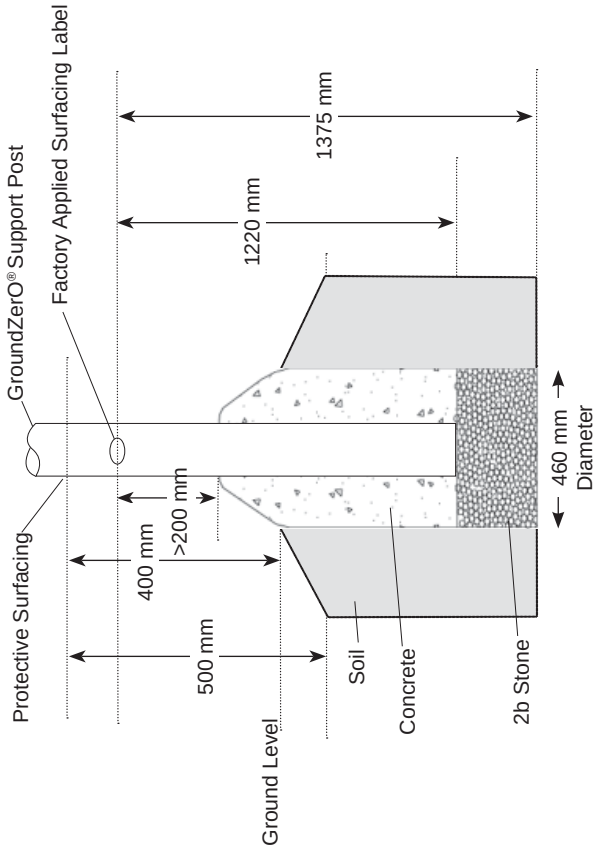


Footing Detail - Component Post (EN)

Footing Notes (in ground)



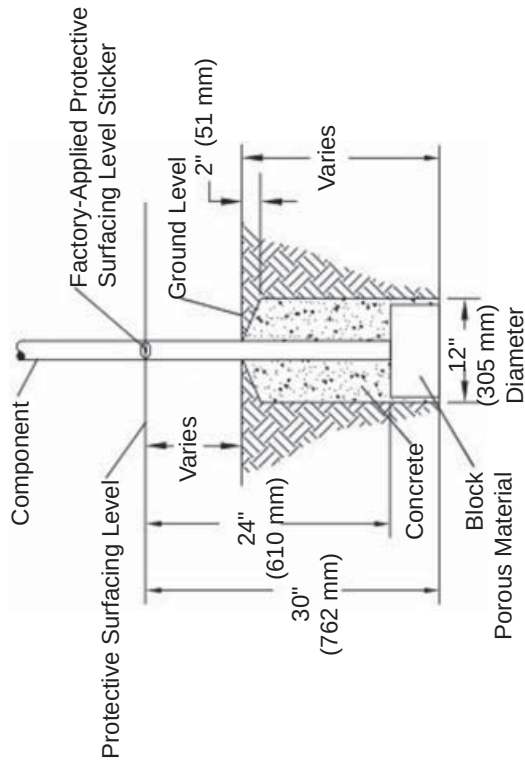
GroundZero® Support Post Footing Detail ASTM/CSA



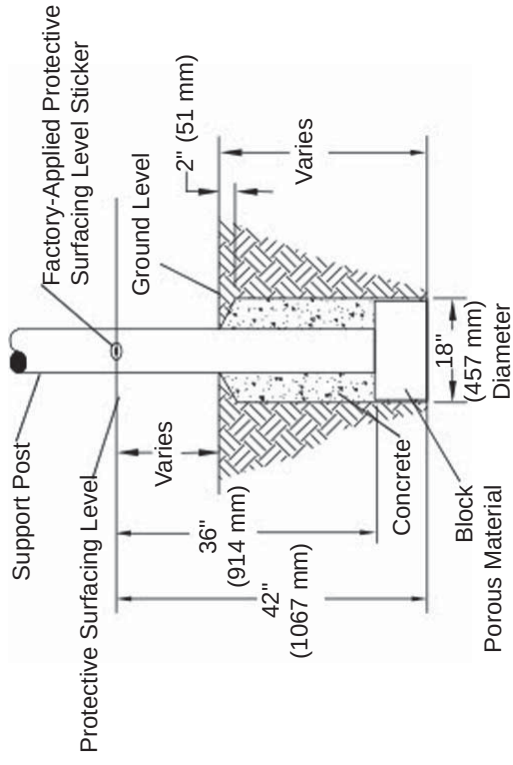
Footing Detail - GroundZero® Support Post (EN)

Guidelines & Information (fs SPE_noslide)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



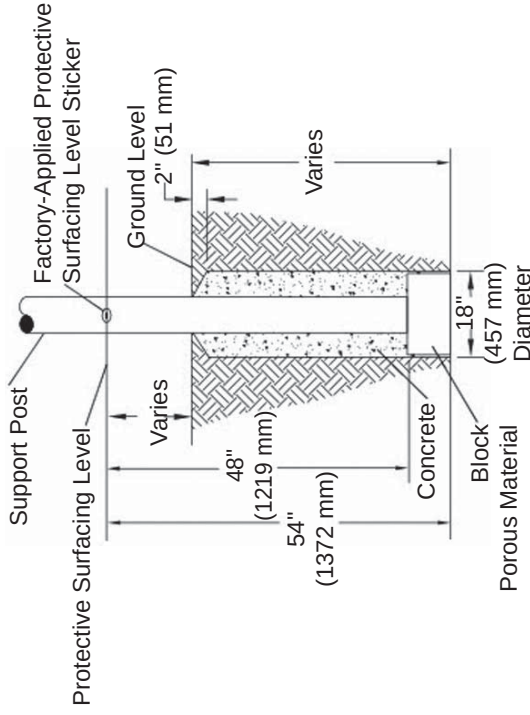
Component Footing Detail (ASTM/CSA) Block Option



Support Post Footing Detail (ASTM/CSA) Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

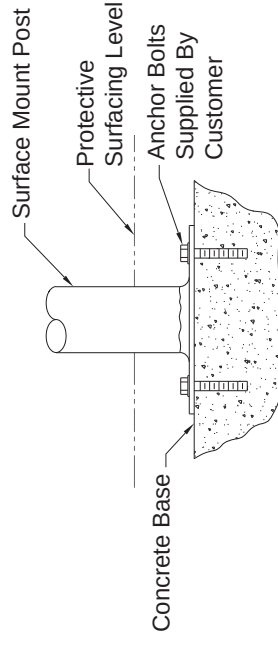


GroundZero® Support Post Footing Detail ASTM/CSA Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footling Notes & Details (surface mount)



Surface Mount Footing Detail

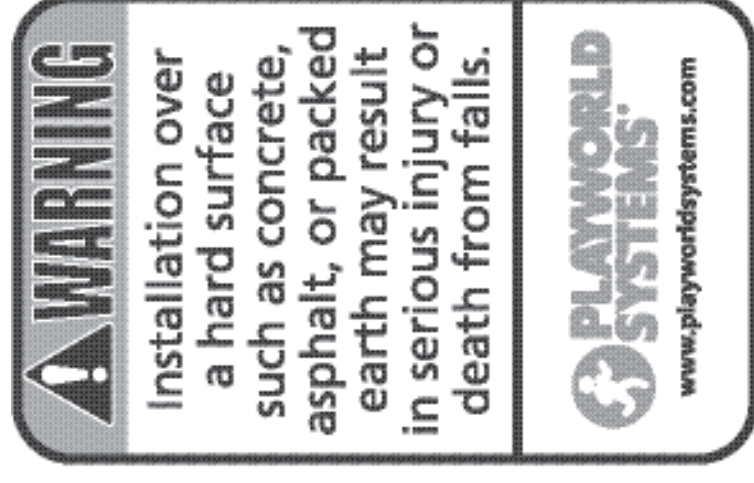
FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

INSTALLATION INSTRUCTIONS

PLAYMAKERS®

MODEL PM5770

LEG LIFT



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 1/2 hour
Weight: 7.2 Lbs. (3.3 Kilos)
Use Zone: 71 in. (1829 mm) all sides
User Group: Ages 2 - 12 years

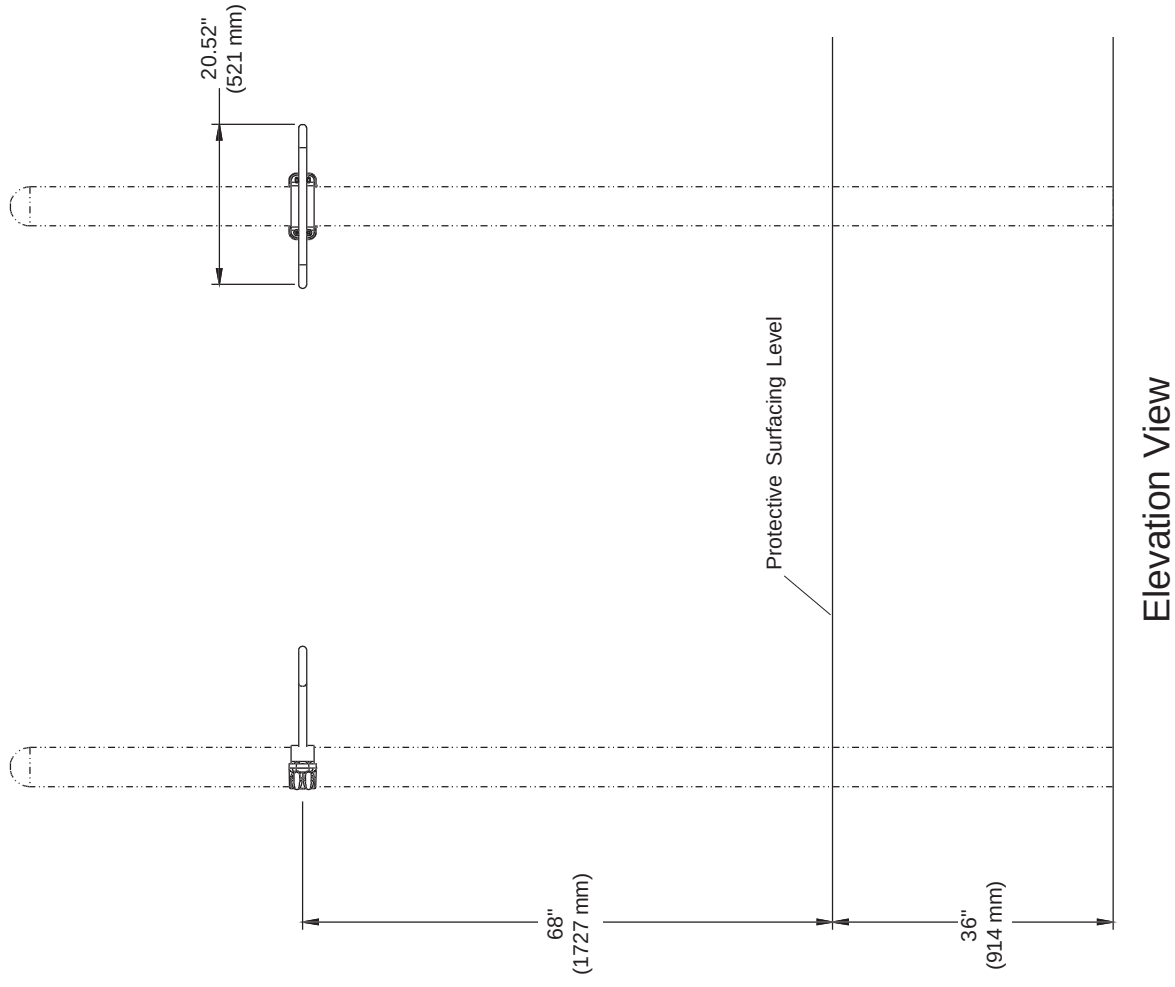
Torque Specification:

Bolts & Nuts: Snug tighten and
tighten an additional one-half turn.
Set Screws: Snug tighten and
tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS



INSTALLATION

✓ Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before re-installation.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

Step 3: Leg Lift will be attached to a support post sold separately.

Attach leg lift to support post.

Step 4: Attach leg lift to support post. See Detail A. Select leg lift handle, wide aluminum clamp, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the wide clamp and handle clamp band. Align holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, through the handle clamp band, and thread into the wide clamp.

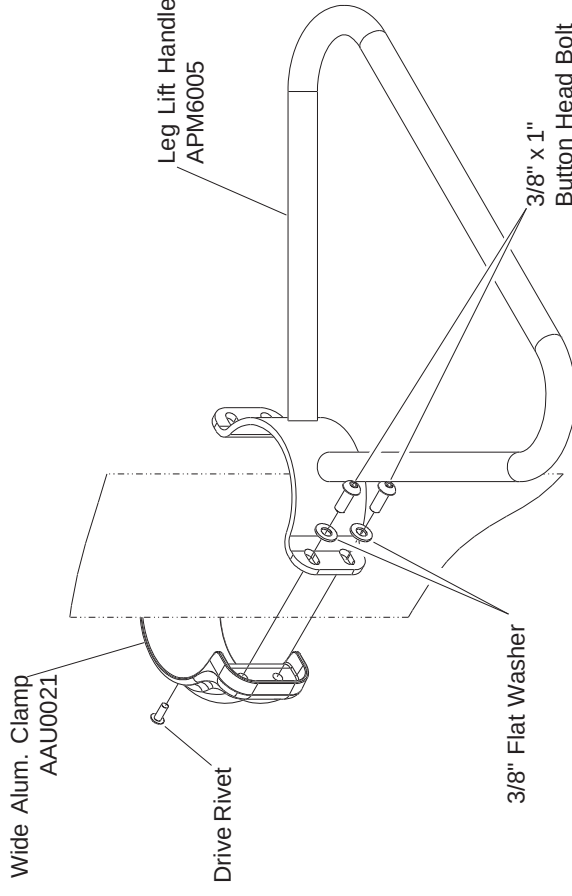
Final Details.

Step 5: Adjust height to approximately 68" (1727 mm) above the protective surfacing level. See **Elevation View**. Plumb and level entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

Step 6: Install drive rivet. After the equipment assembly is complete, install a drive rivet in the aluminum clamp band to permanently secure it to the support post. See **Detail A**. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

INSTALLATION INSTRUCTIONS



Detail A

INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

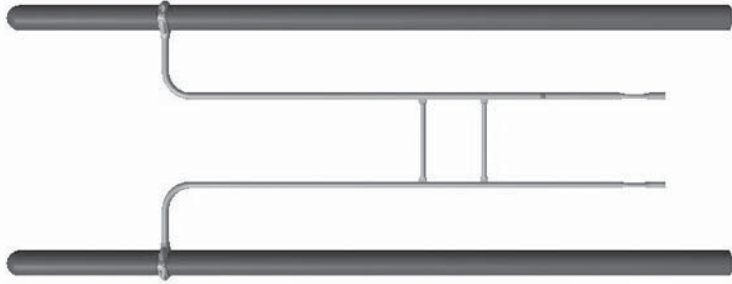
PM - LEG LIFT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	1
APM6005	HANDLE - LEG LIFT w/5" CLAMP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM5950	12" (305 mm)	25 lbs. (11 kg)
ZZPM5960	24" (610 mm)	28 lbs. (13 kg)
ZZPM5970	36" (915 mm)	26.2 lbs. (11,8 kg)

Installation Instructions

Playmakers® Models PM5950, PM5960, and PM5970

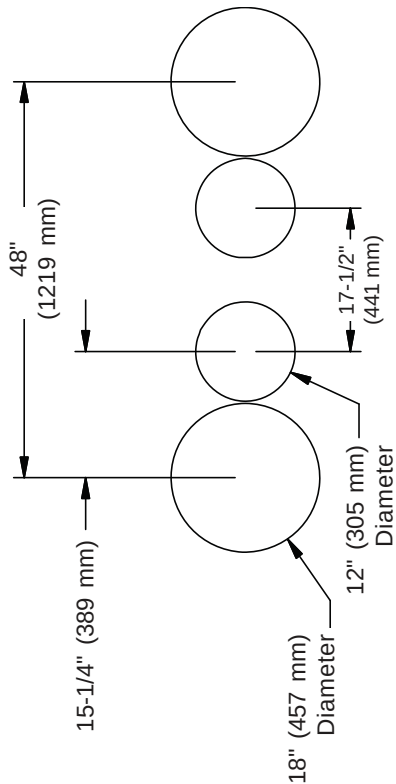
1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

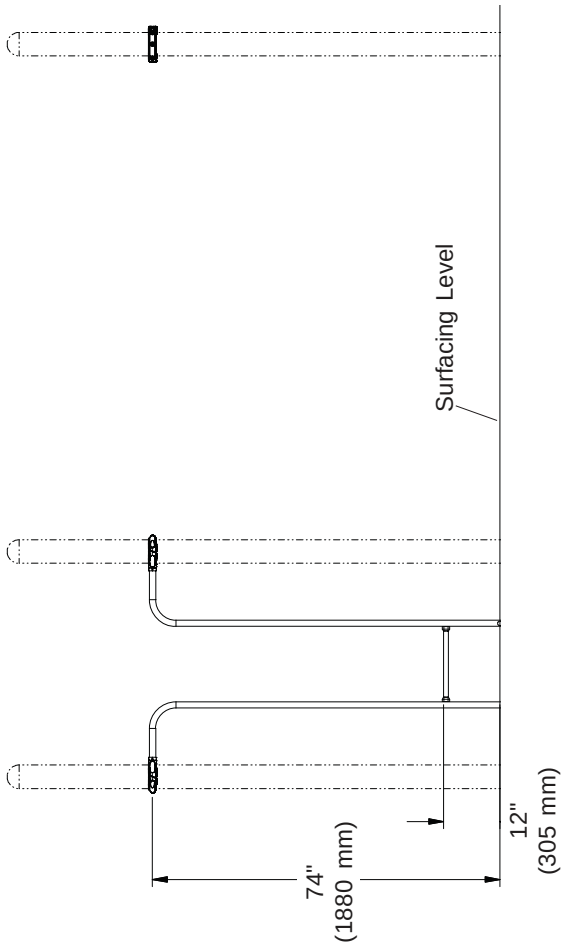
Recommended Crew: One (1) adult
 Installation Time: 1.5 installation-hours
 Weight: (refer to table)
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Footing Diagram
All Models



Elevation View

Elevation Views
PM5950

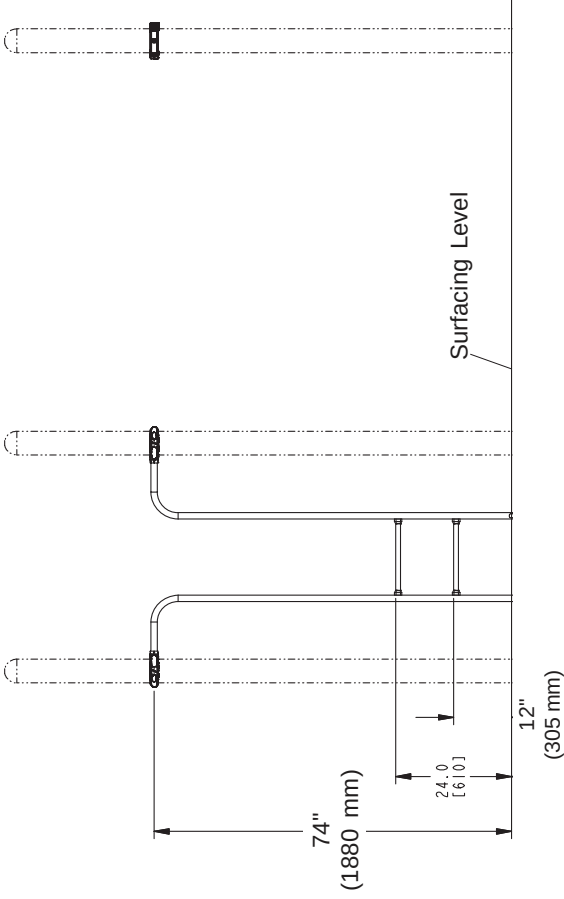


Installation Instructions

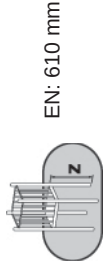
Top View



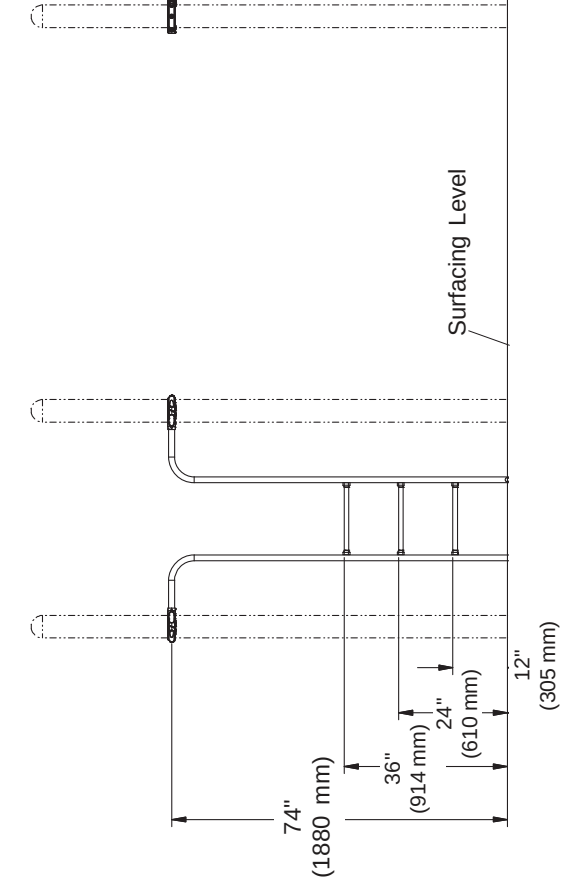
Top View



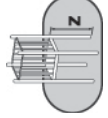
Elevation Views
PM5960



EN: 610 mm



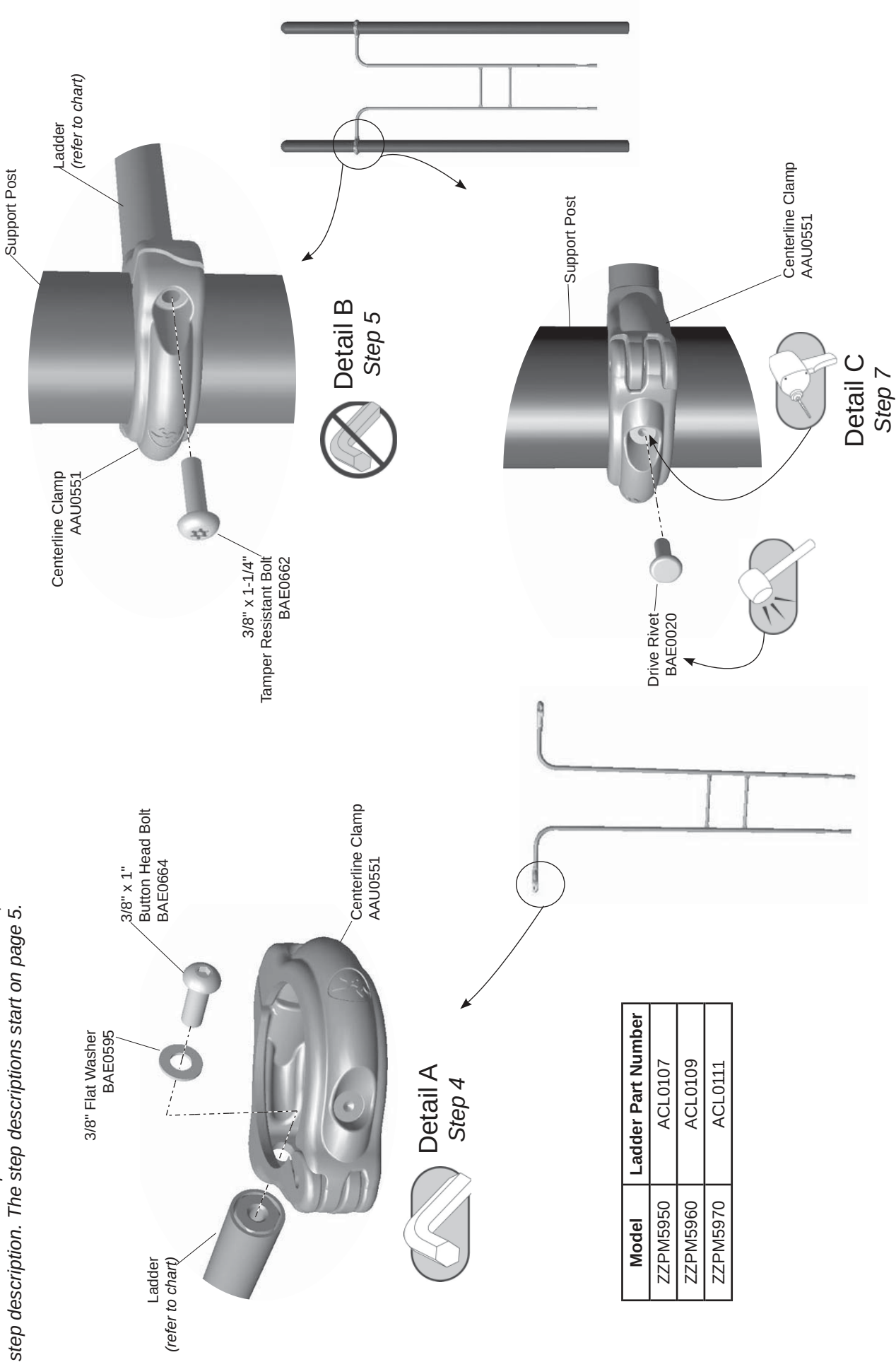
Elevation Views
PM5970



EN: 915 mm

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2



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PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)



Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.

- Drop from hand rungs with knees slightly bent and land on both feet.

- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component.

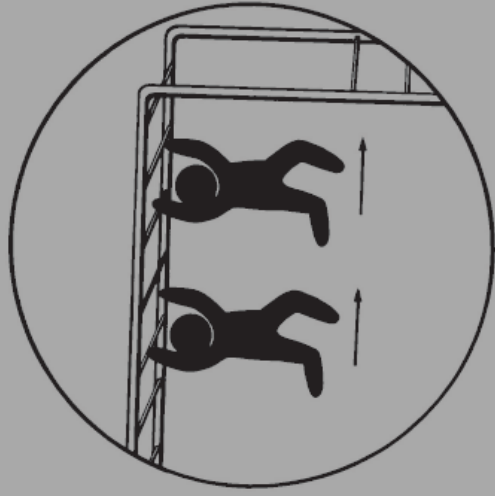
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

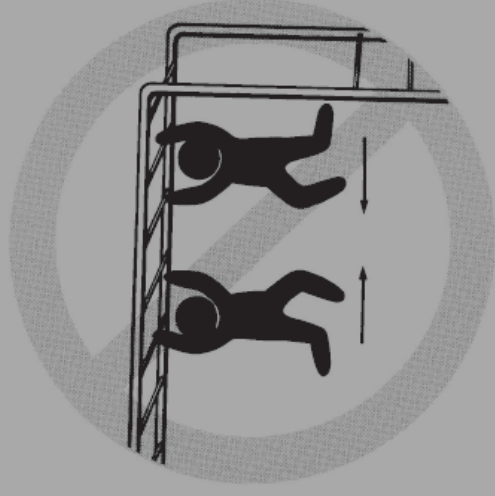
Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet

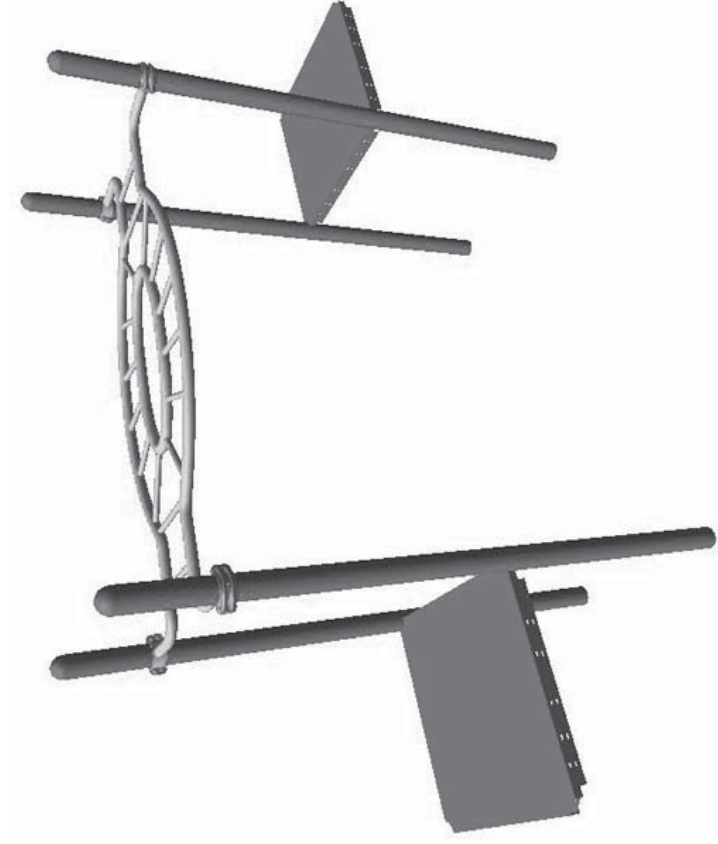


Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.



Assembly View

Installation Instructions

Playmakers® Model PM6966

120 in. (3048 mm)

Roundabout Horizontal Ladder

Installation Preparation

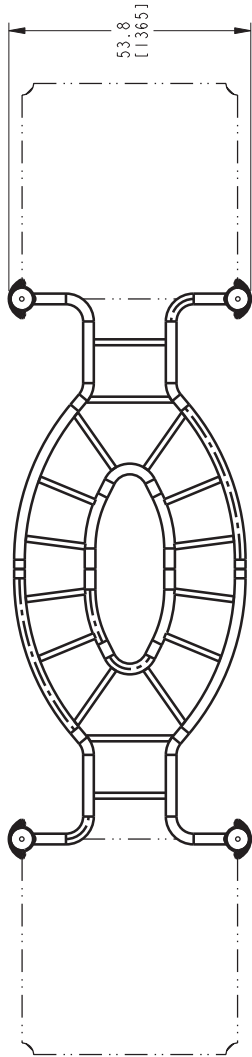
Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Pour Concrete
	Drill	Dig Footing Holes
	Hammer	Critical Fall Height

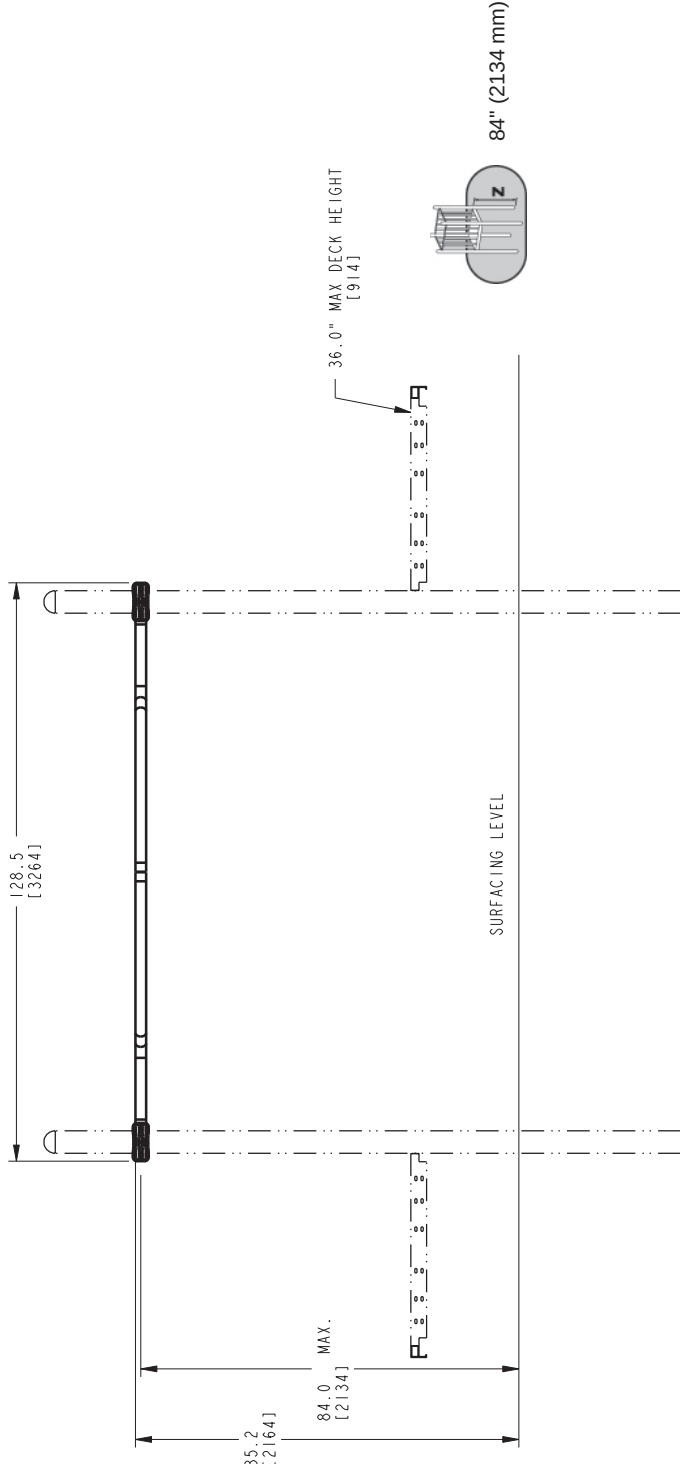
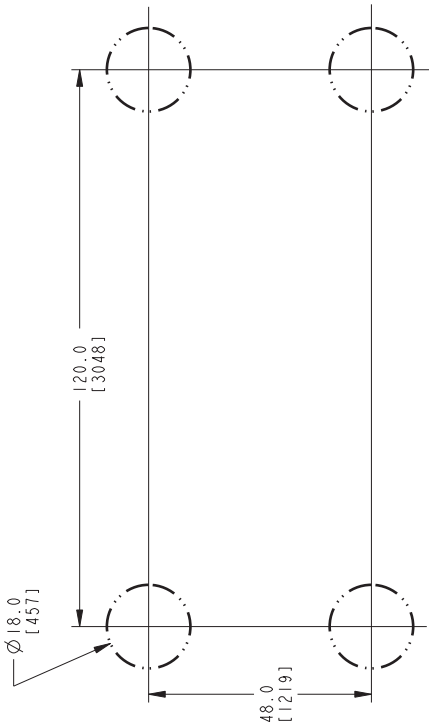
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



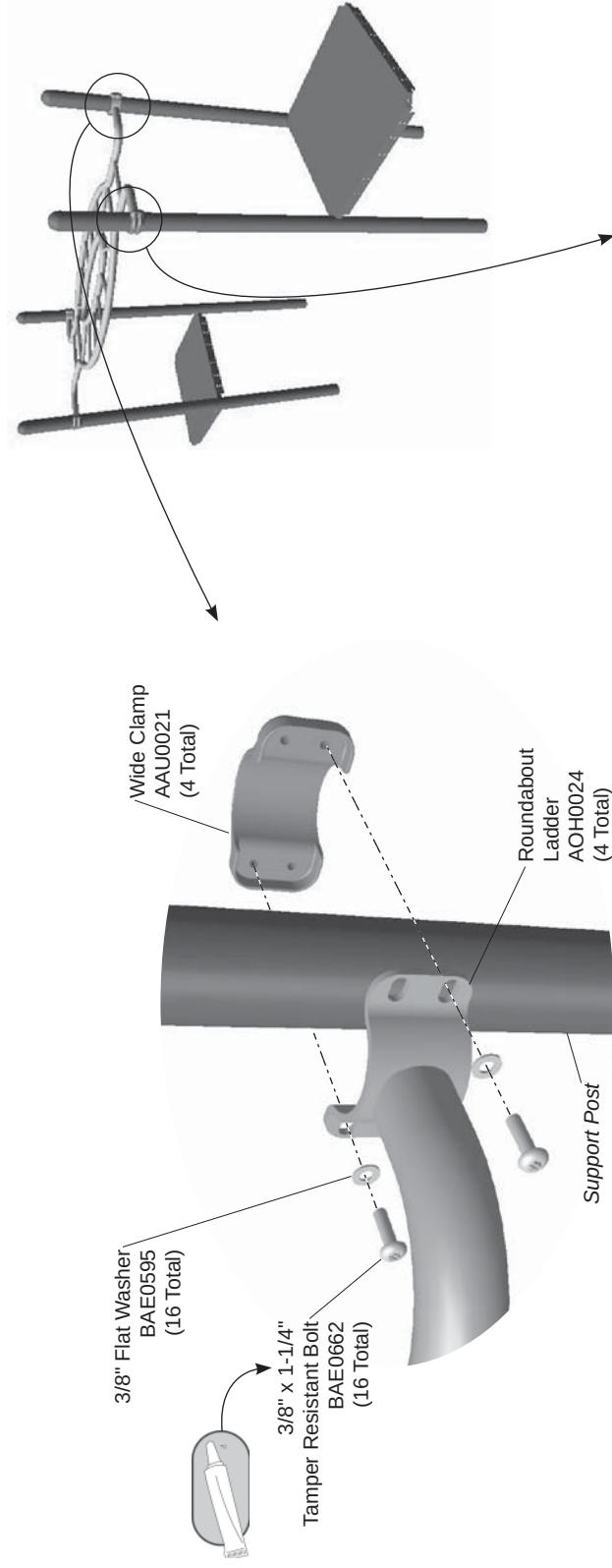
Footing Diagram



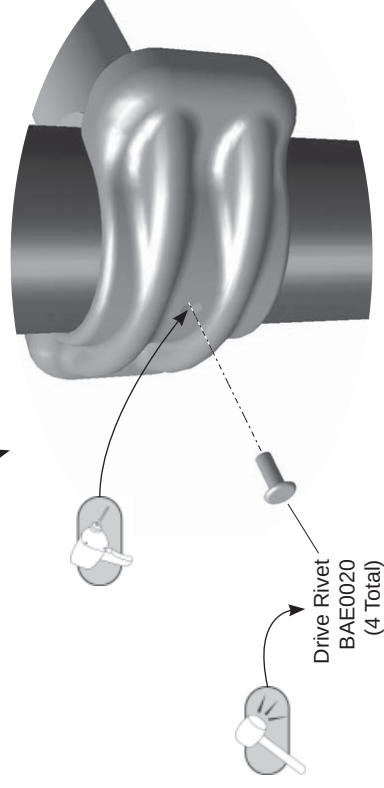
Elevation View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 4
Attach the ladder to the support posts.



Detail B
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the component by referring to the master plan view.

Step 4: Attach the ladder to the support posts. See **Detail A** and **Elevation View**. Position the ladder between the support posts at the approximate height. Place each clamp around the post and against the ends of the ladder. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Start all bolts before tightening any.

Step 5: Adjust height of the assembly. See **Elevation View**. Adjust the height of the top rail so that the center of the clamp band is 84 in. (2134 mm) above the level of protective surfacing. Tighten the bolts *evenly* so that any gap is covered by the clamp casting.

Final Details.

Step 6: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 7: Install the drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp band to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp band and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 8: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

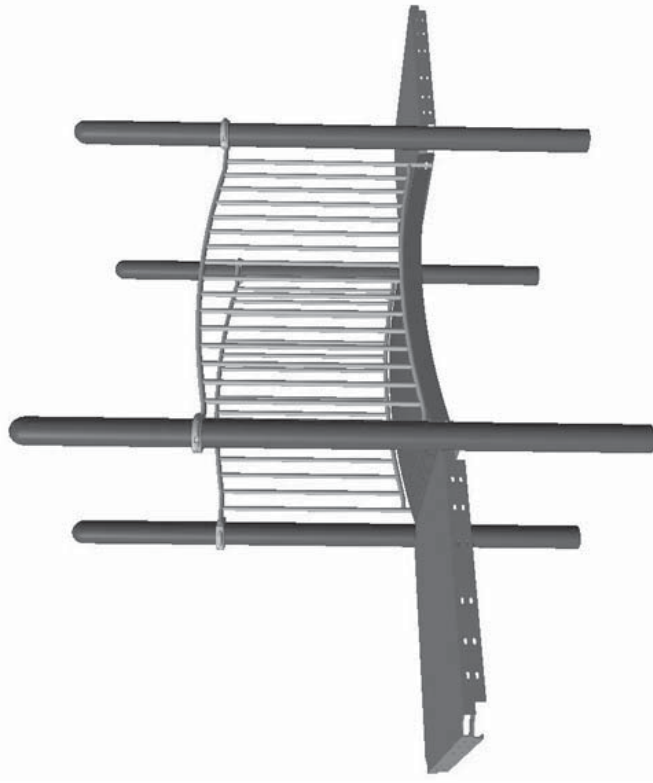
PM6966 - 120 in. (3048 mm) ROUNDABOUT HORIZONTAL LADDER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AOH0024	ROUNDABOUT LADDER - PM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Installation Instructions Playmakers® Model PM6590 6 ft. (1829 mm) Arch Bridge



Assembly View

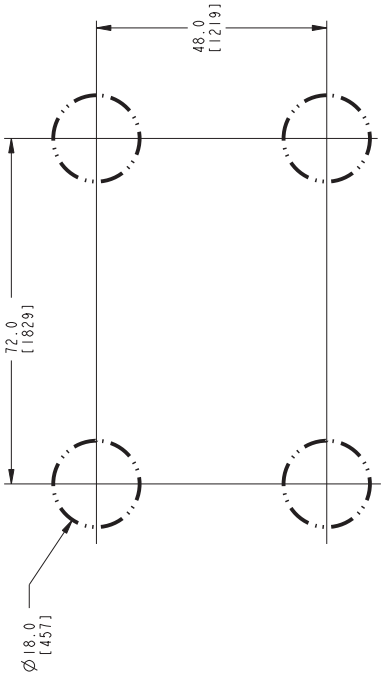
Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

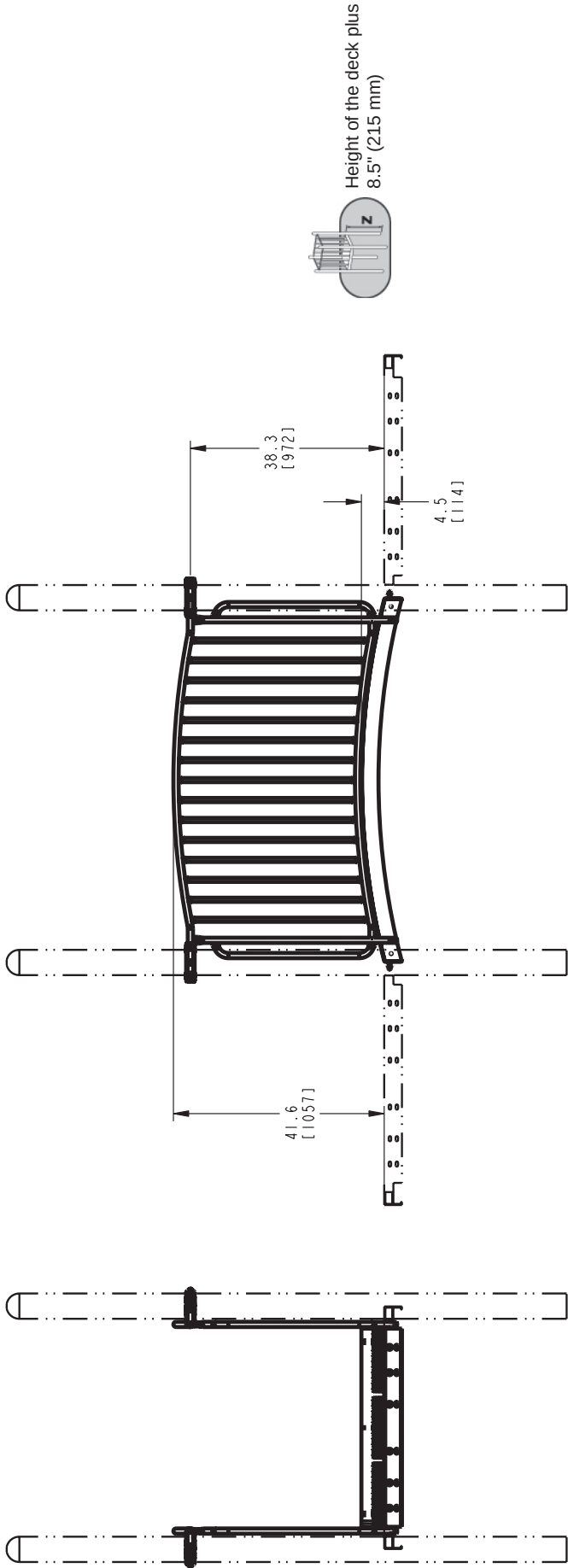
ICON KEY		
	Fully Tighten Hardware	 Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	 Critical Fall Height
	Drill	 Hammer

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

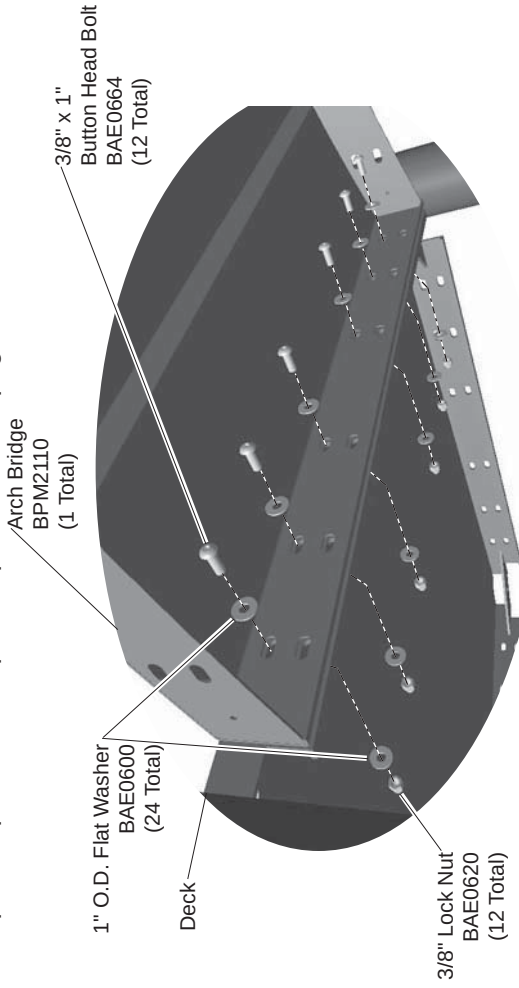


Elevation View



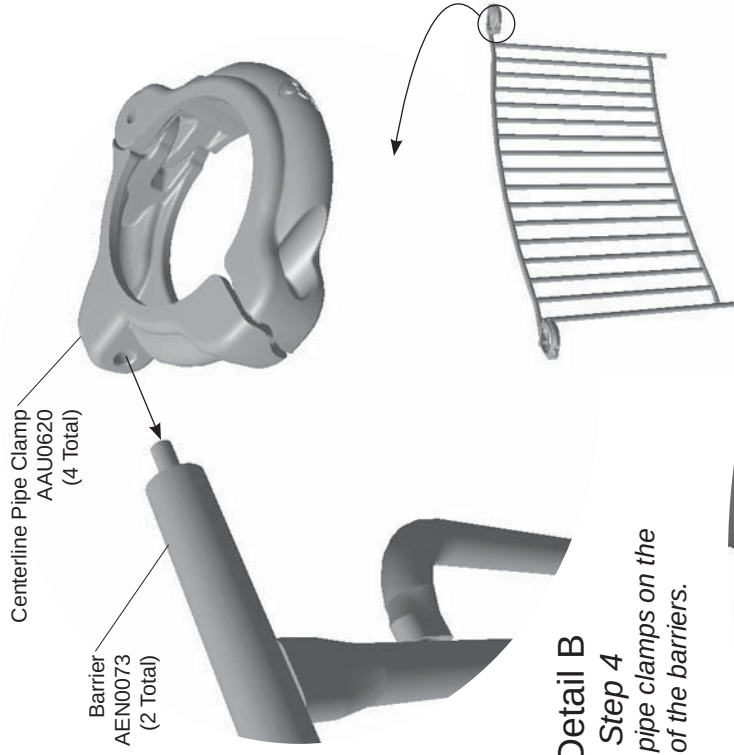
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



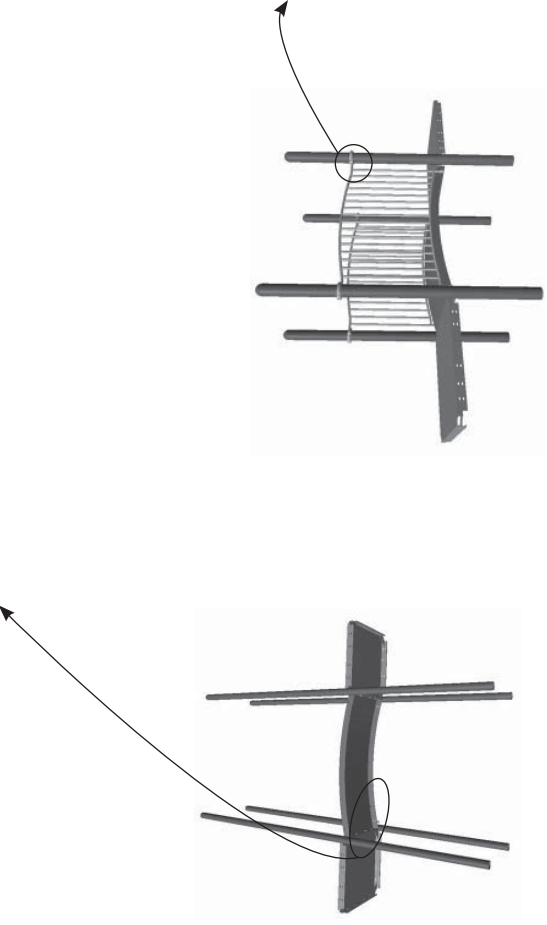
Detail A
Step 3

Attach the bridge section to the decks.



Detail B
Step 4

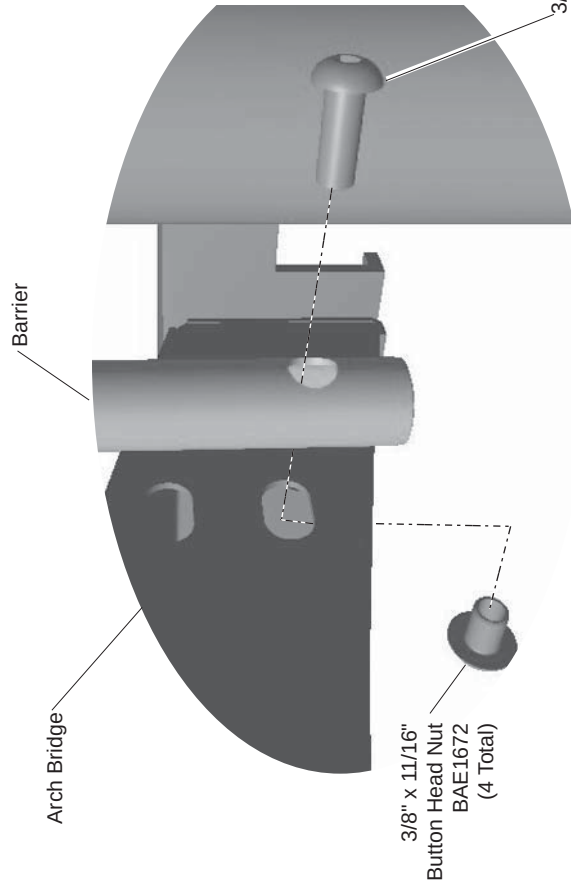
Place the pipe clamps on the ends of the barriers.



Detail C
Step 5

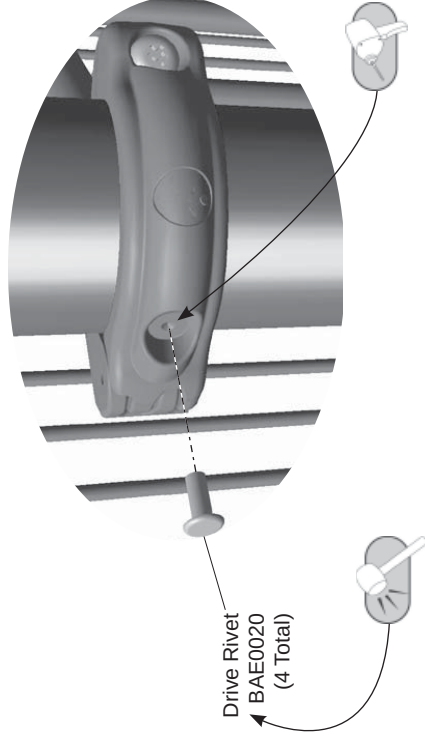
Attach the barriers to the support posts.

Installation Instructions



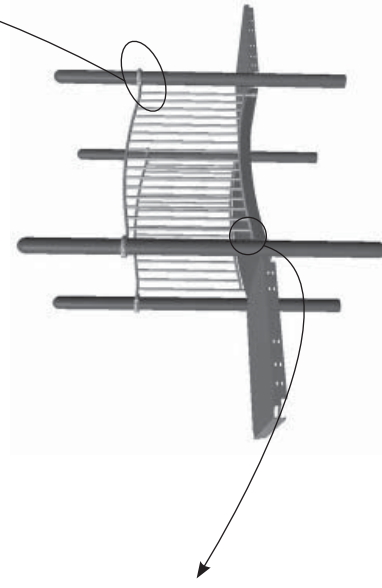
Detail D Step 6

Attach the barriers to the bridge.



Detail E Step 8

Secure the clamps to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the arch bridge to the decks. See **Detail A**. Due to the weight of the bridge, a minimum of three average size adults are necessary to position the bridge section between the decks. Position the bridge against the decks and attach as shown. Make the connections using the **top holes**. Leave the connections loose.

Step 4: Attach the clamps to arch bridge barrier. See **Detail B**. Thread a clamp onto each threaded stud of the arch bridge barriers. Position the clamps to the inside of each barrier.

Step 5: Attach arch bridge barrier to support posts. See **Detail C**. Lift a barrier with clamps into position. Secure the clamps to the support post as shown. Do not fully tighten bolt due to allow adjustment.

Step 6: Attach arch bridge barrier to arch bridge. See **Detail D**. Position the barrier against the side of the bridge. Attach as shown.

Note: There are upper and lower holes along the side of the arch bridge for barrier attachment, choose which hole will accommodate the position of the clamps at the posts to avoid adjacent component clamp interference.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

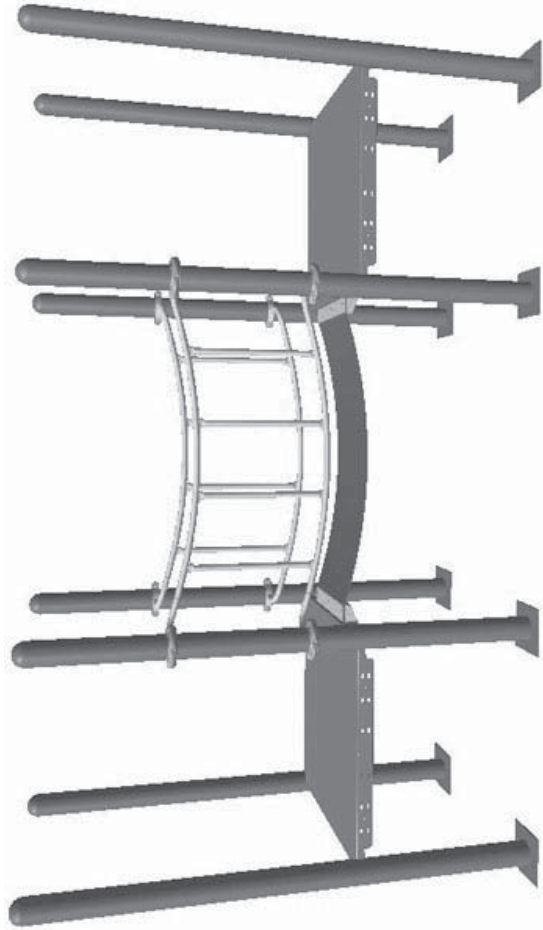
PM6590 - 6 ft. (1829 mm) ARCH BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AEN0073	BARRIER - 6' ARCH BRIDGE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK W/ NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE1672	NUT - 3/8-16 x 11/16" BUTTON HEAD	4
BPM2110	ARCH- 71.75" x 8" x 39.12"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Installation Instructions Playmakers® Models PM8480 and PM8486 6 ft. (1829 mm) and 10 ft. (3048 mm) Ripple Bridge



Assembly View (representative model)

Installation Preparation

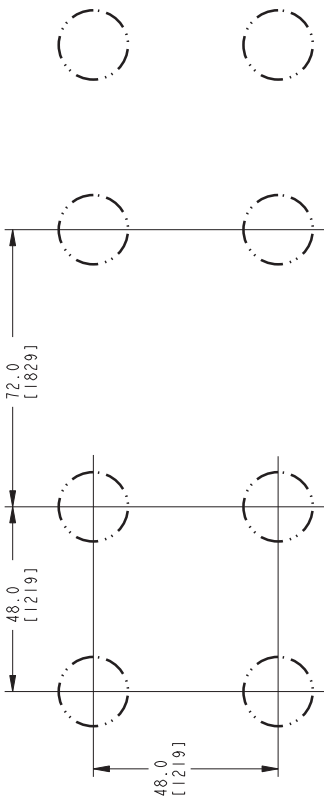
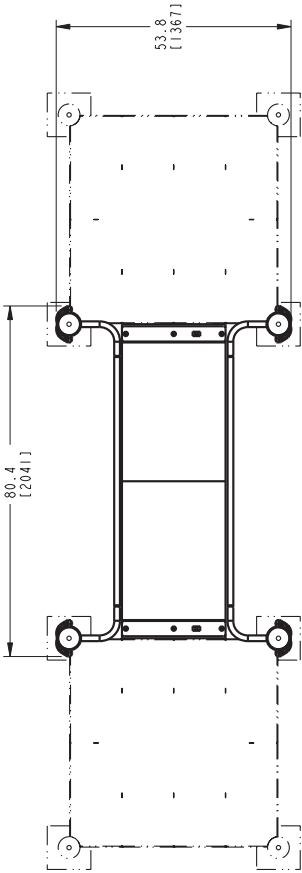
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

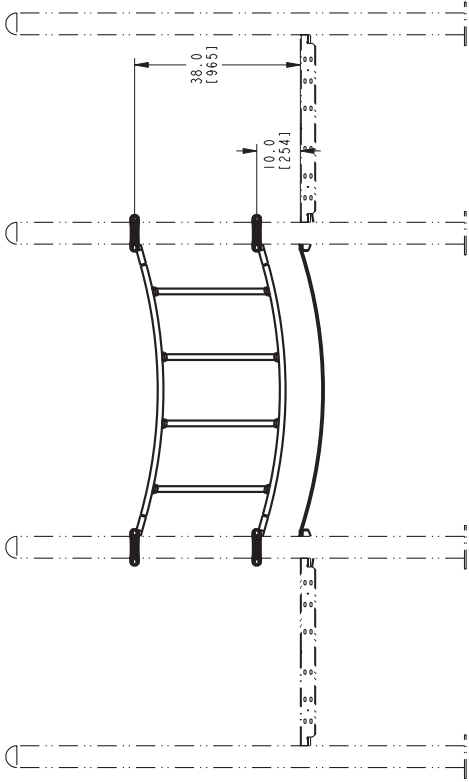
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

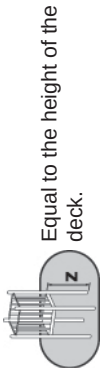
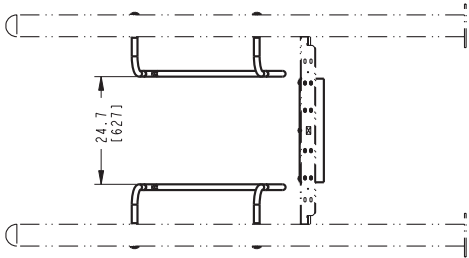
Top View



Footing Diagram



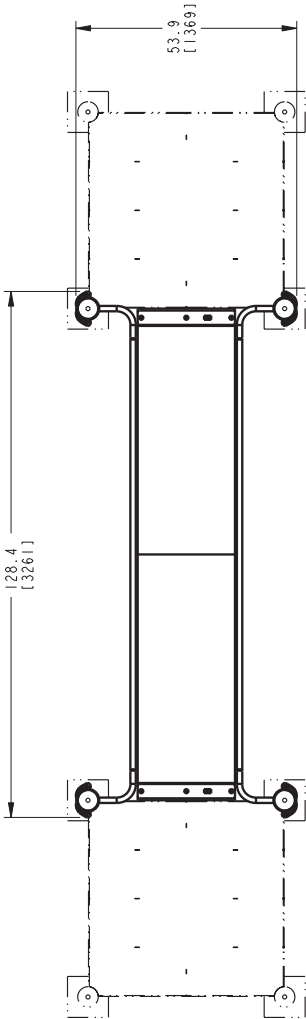
Elevation Views
PM8480



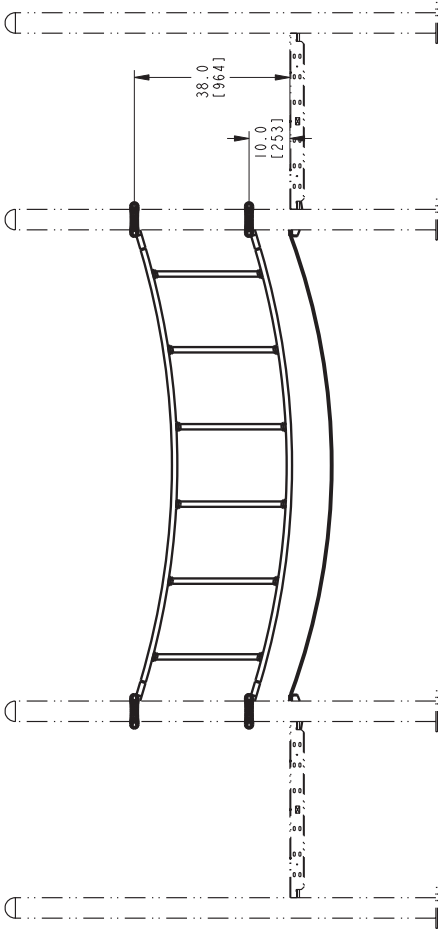
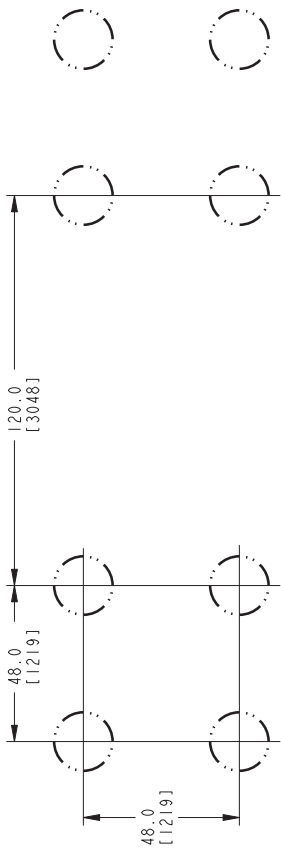
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

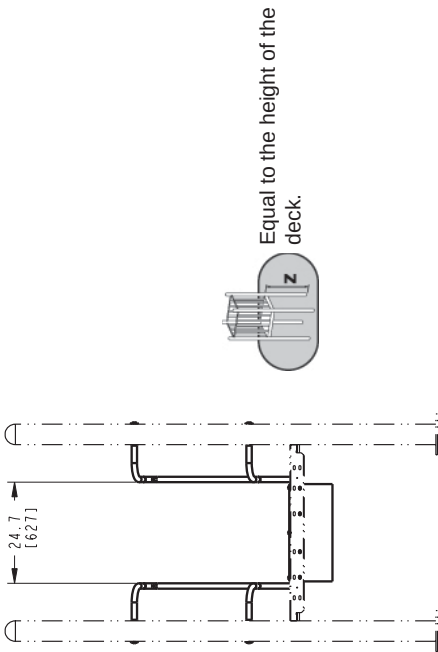
Top View



Footing Diagram

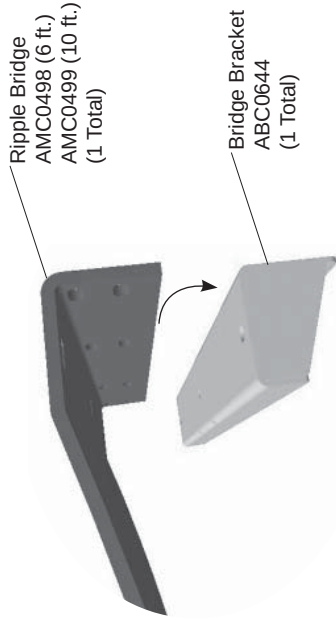


Elevation Views
PM8486



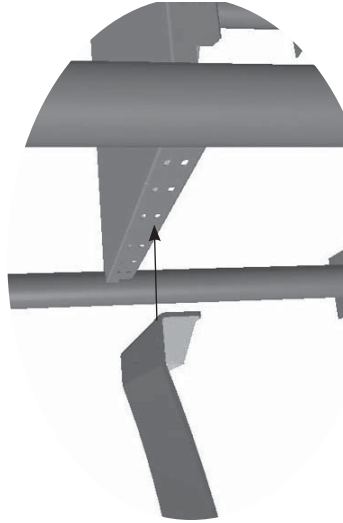
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



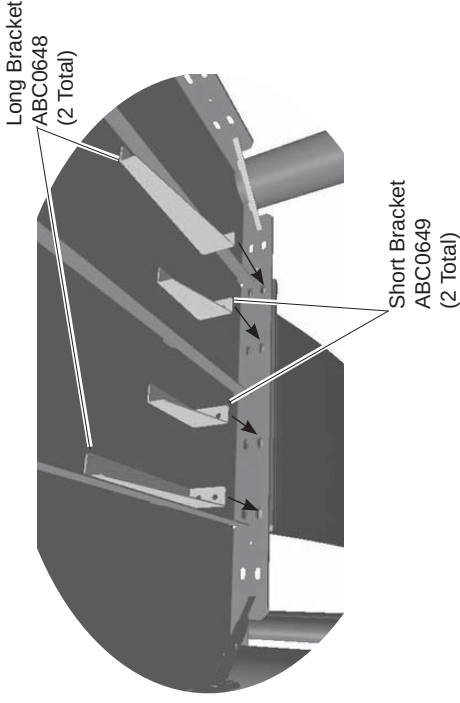
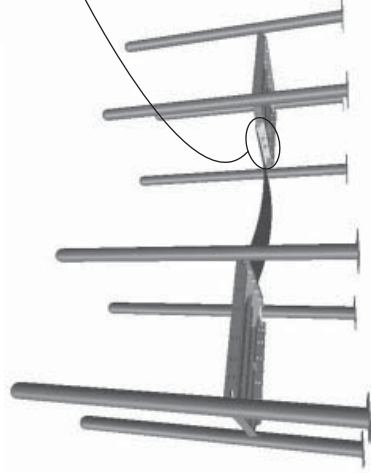
Detail A-1

Fold one end of the bridge down over the bracket and align the holes.



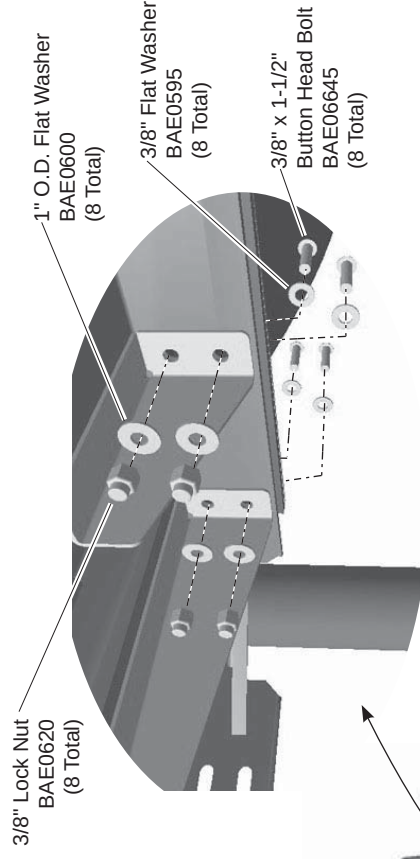
Detail A-2

Position the bridge and bracket against a deck and align the holes.



Detail A-3

Position the long and short brackets underneath the deck and align the holes.



Detail A-4

Make the connections as shown.

Details A-1, A-2, A-3, and A-4 Step 3

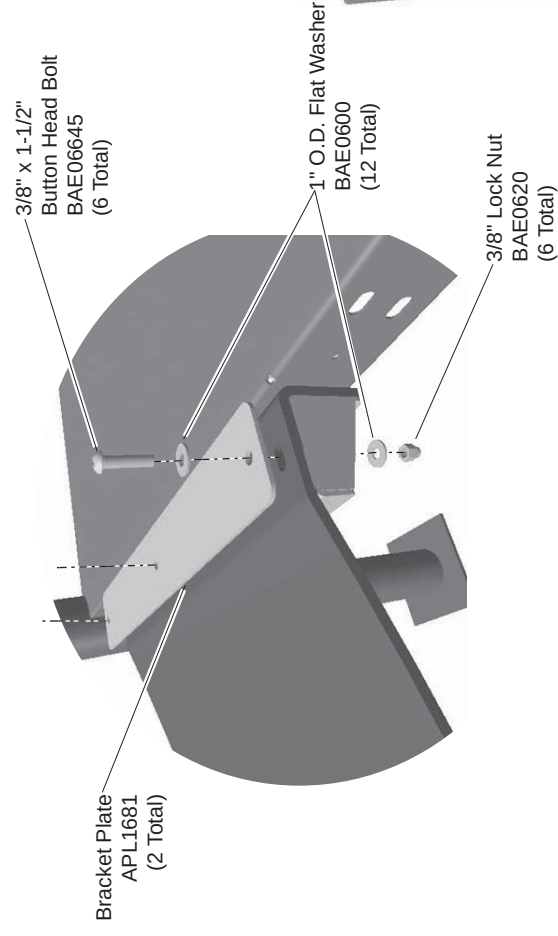
Attach one end of the bridge to a deck.



Installation Instructions

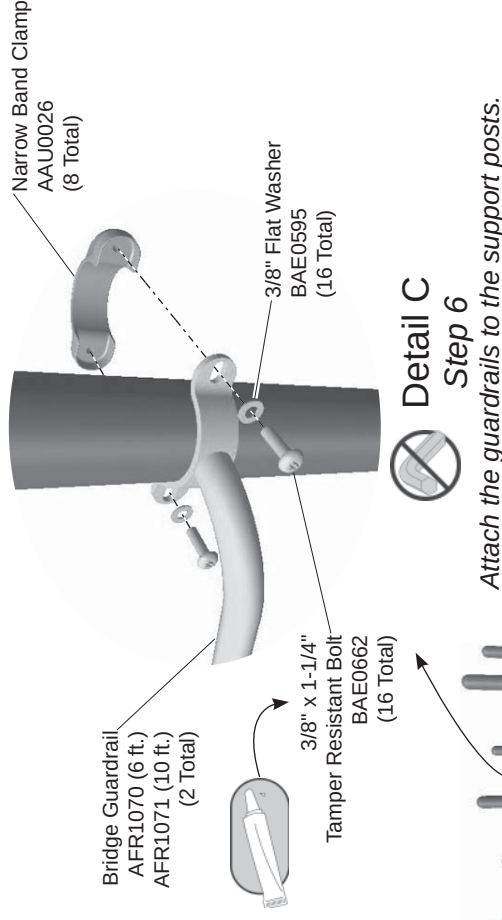
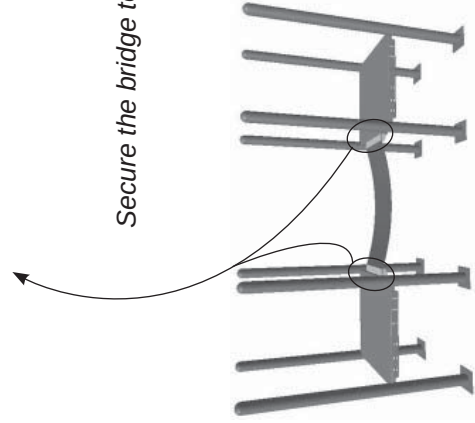
Step 4

Repeat Step 3 to attach the other end of the Ripple Bridge to the other deck. Extra manpower may be required to make the connections.



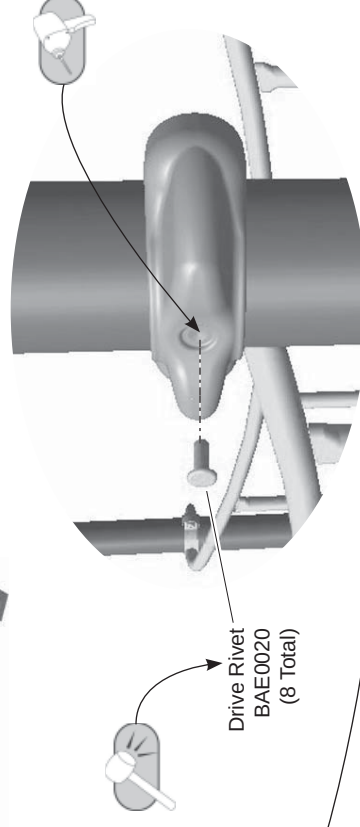
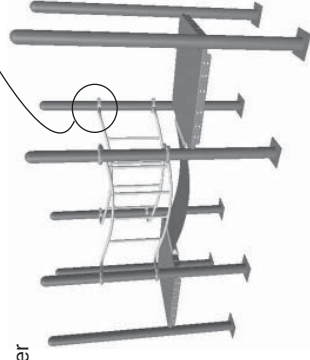
Detail B Step 5

Secure the bridge to the top of the bridge bracket.



Detail C Step 6

Attach the guardrails to the support posts.



Detail D Step 8

Secure the band clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. See **Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

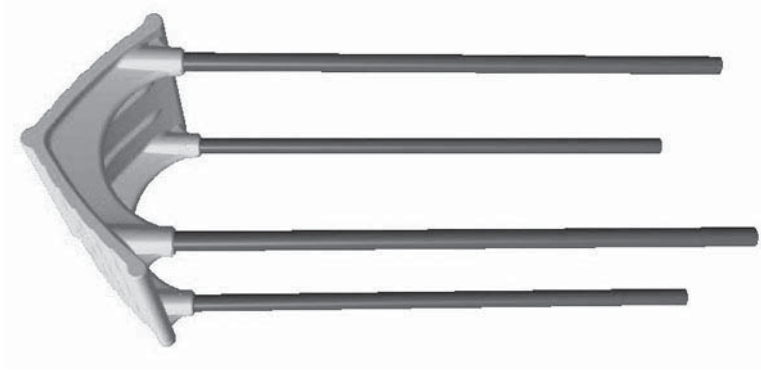
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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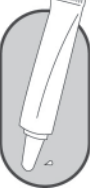
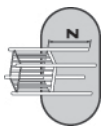


Assembly View

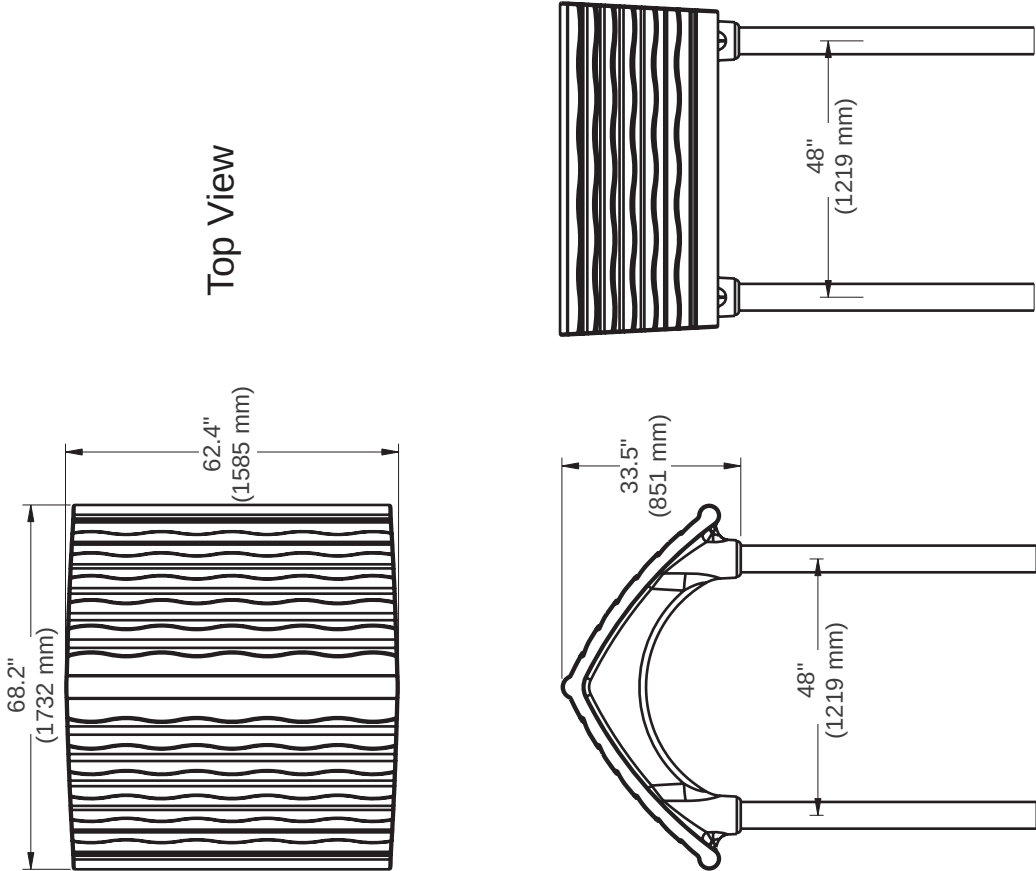
Installation Instructions Playmakers® Model PM9846 Cabana Roof

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

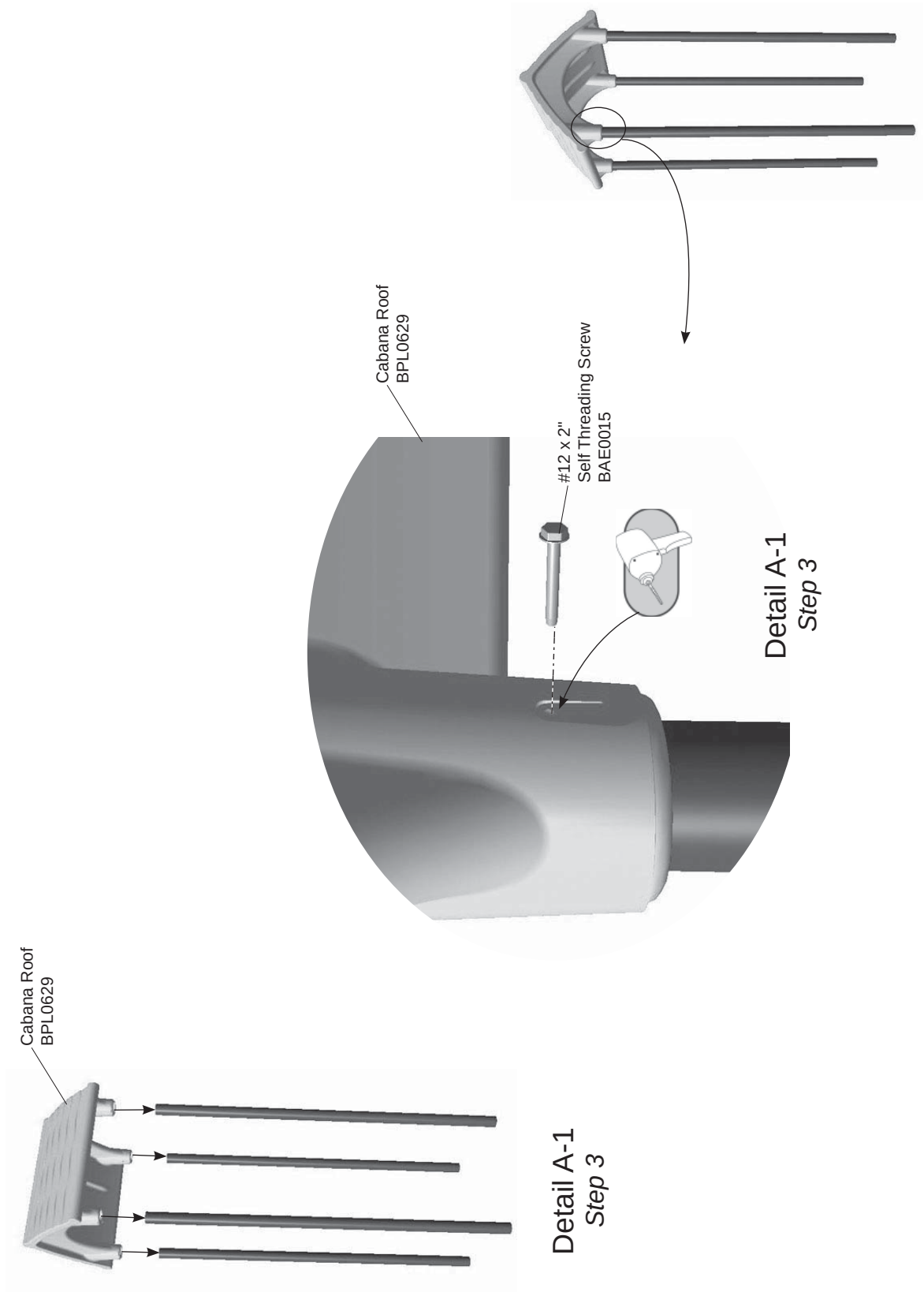


Elevation Views
ZZPM9846



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

___Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

___Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

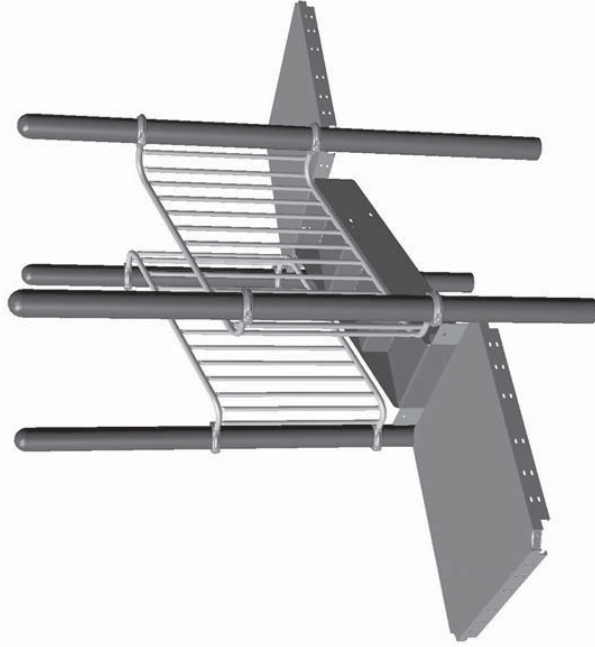
Bill of Materials

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Assembly View (24" (610 mm) shown)

Model	Rise Height	Weight
ZZPM9168	12" (305 mm)	106 lbs. (48.2 kg)
ZZPM9170	24" (610 mm)	228 lbs. (103.6 kg)
ZZPM9177	36" (915 mm)	338 lbs. (153.6 kg)

Installation Instructions

Playmakers® Models PM9168, 9170, 9177

Deck to Deck Accessible Tiered Platforms

12", 24", 36" (305, 610, 914 mm) Rise Height

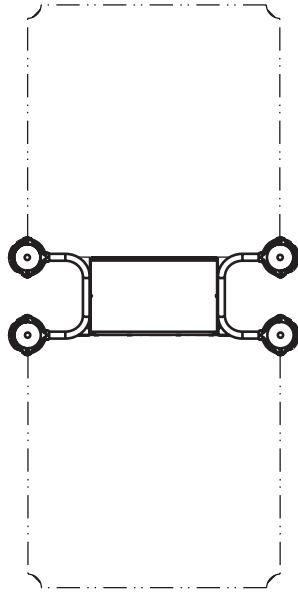
Installation Preparation

Recommended Crew: Two - Three (2-3) adults
 Installation Time: 2 man-hours
 Weight: refer to table
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

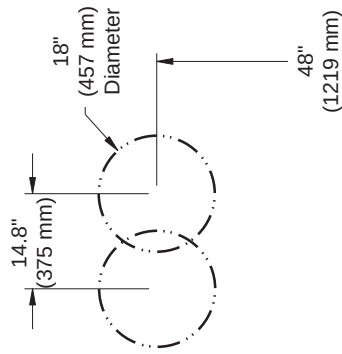
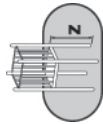
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Hammer
	Drill		Critical Fall Height

Installation Instructions

Top View



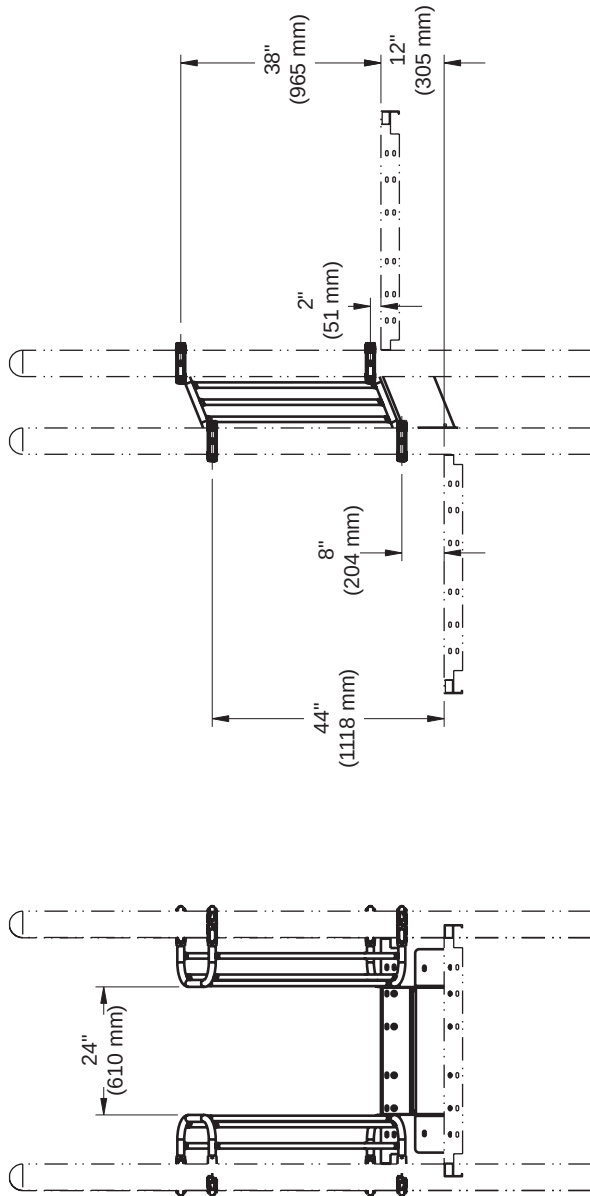
EN: Upper deck height



48" (1219 mm)

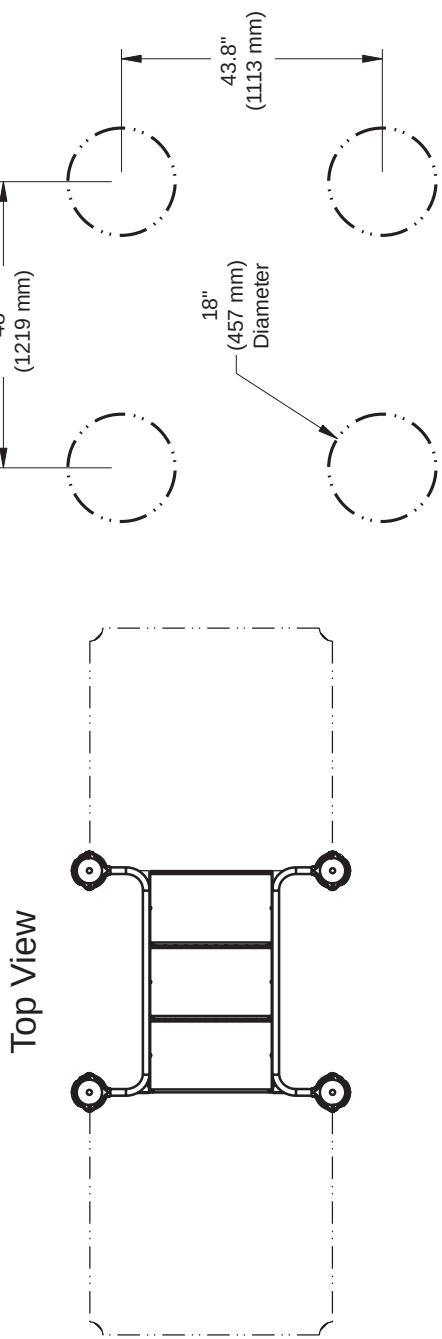


Footing Diagram

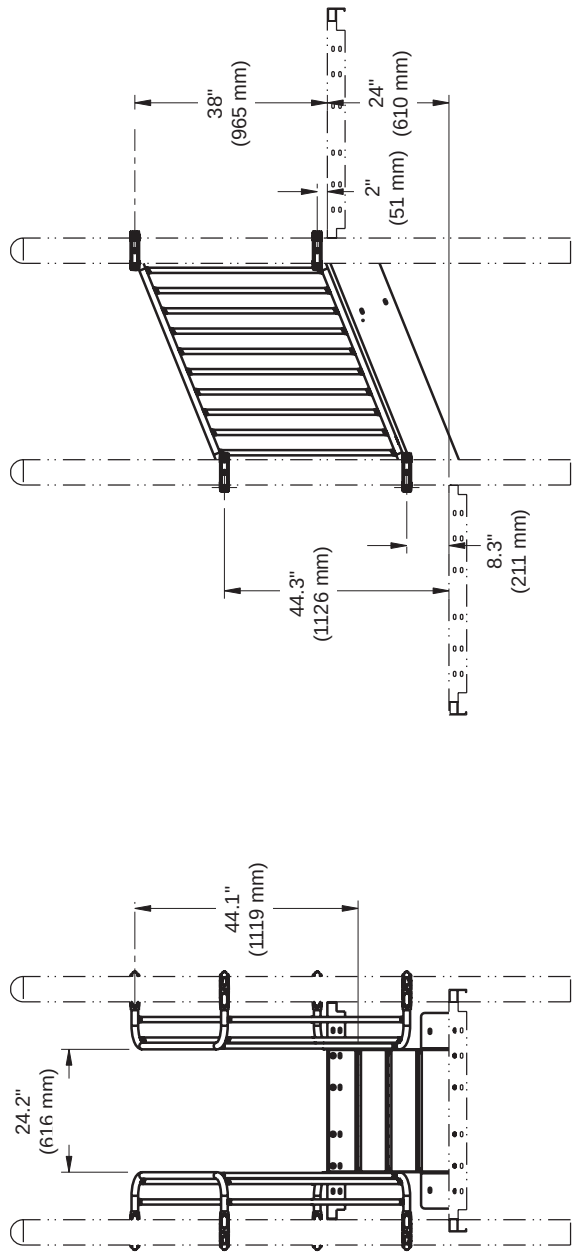


Elevation Views (12" (305 mm) rise)

Installation Instructions



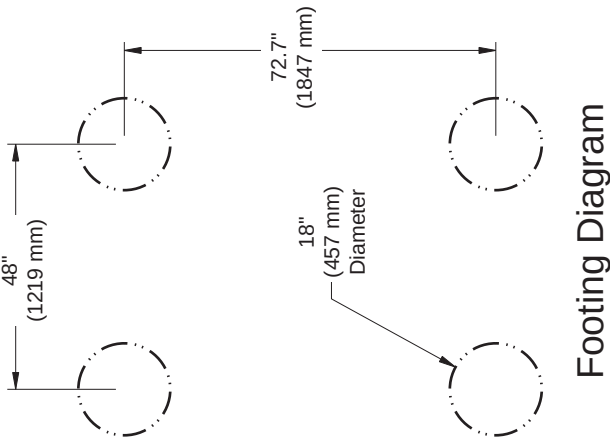
Footing Diagram



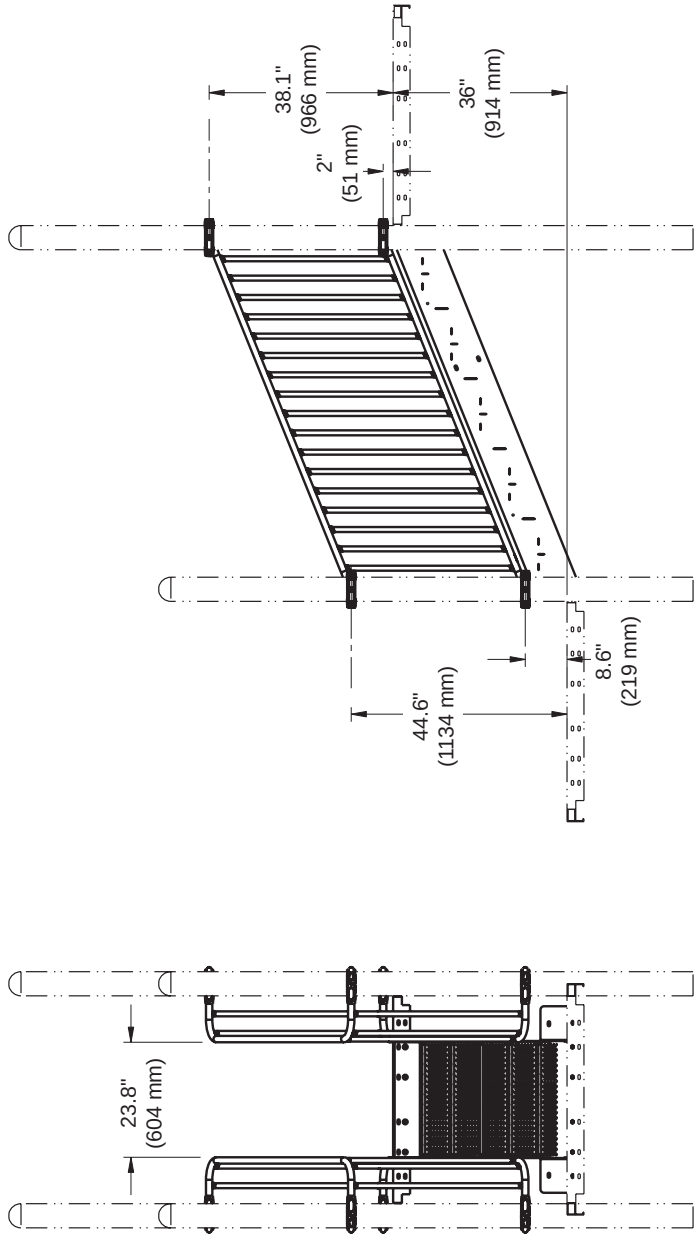
Elevation Views (24" (610 mm) rise)



Installation Instructions



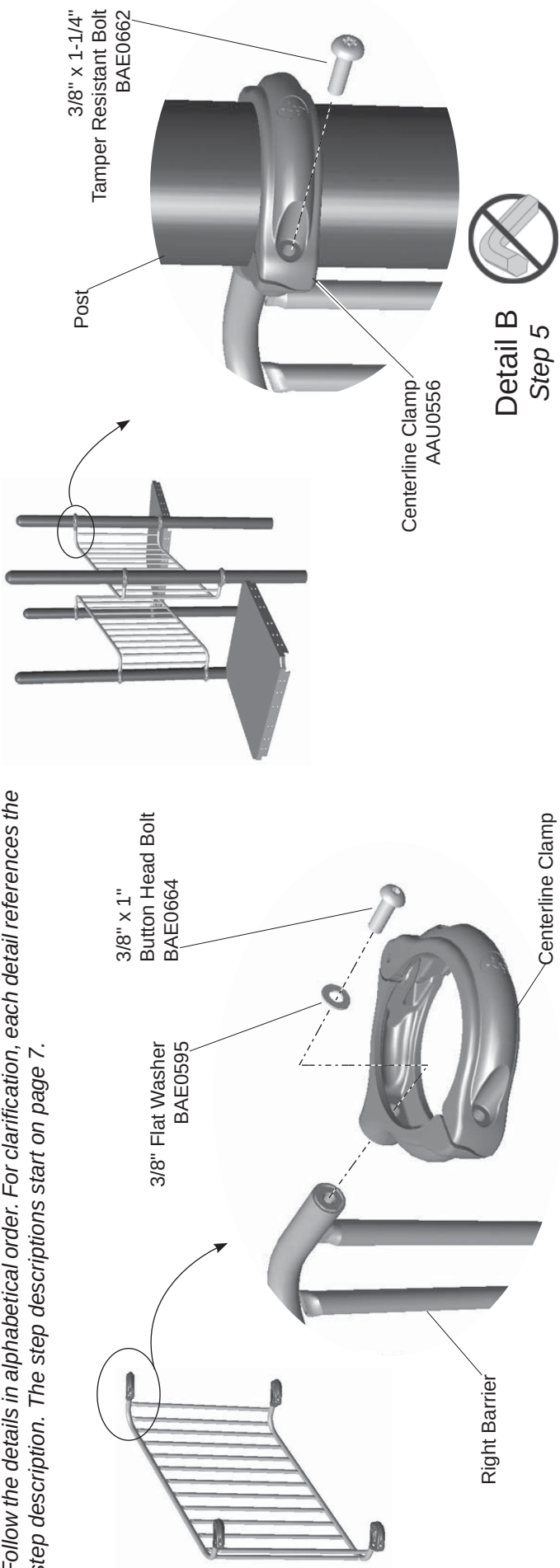
Footing Diagram



Elevation Views (36" (914 mm) rise)

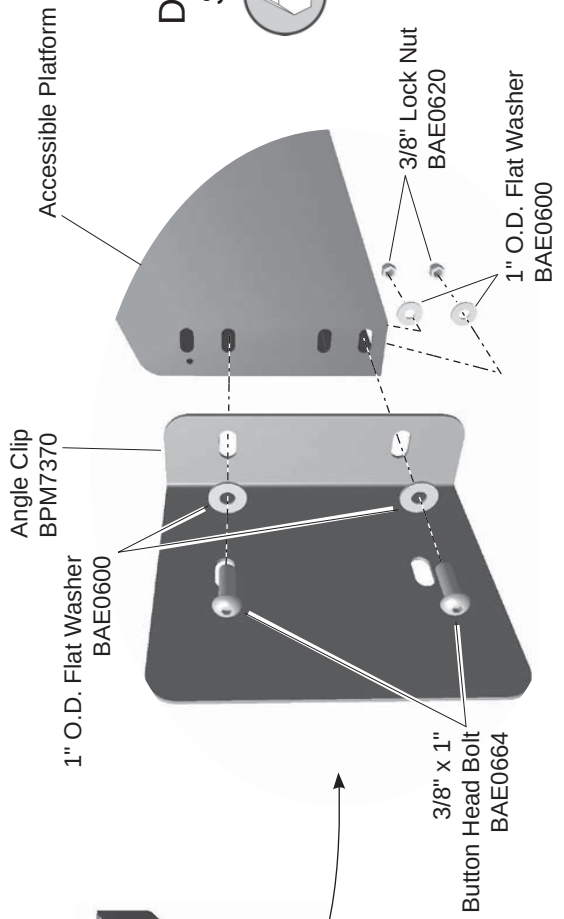
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4

The front of angle clip should be even with the face of the platform

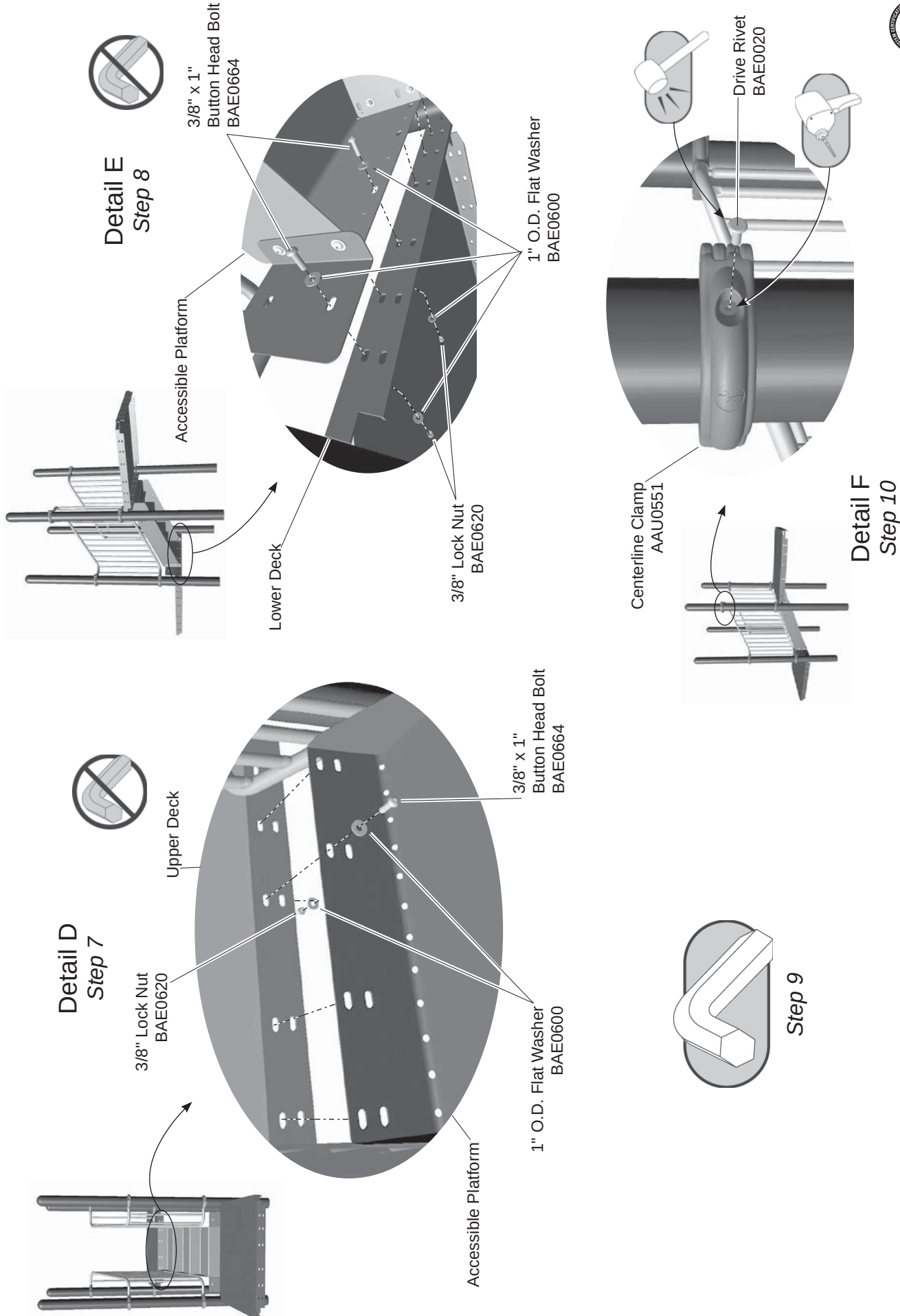


Detail C
Step 6

Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM7305
ZZPM9170	AEN0489 / AEN0490	BPM7315
ZZPM9177	AEN0491 / AEN0492	BPM7325



Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Determine location of the platform by referring to the master layout drawing.

___ **Step 4:** Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

___ **Step 5:** Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

___ **Step 6:** Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

___ **Step 7:** Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

___ **Step 8:** Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

___ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

___ **Step 10:** Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7305	STAIR - 12" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7325	STAIR - 36" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7315	STAIR - 24" ACCESS COATED PERF w/SM HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

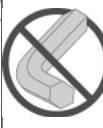
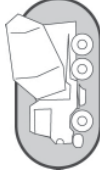
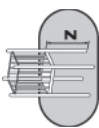
Playworld Systems®

Models XX0260, XX0261, & XX0324

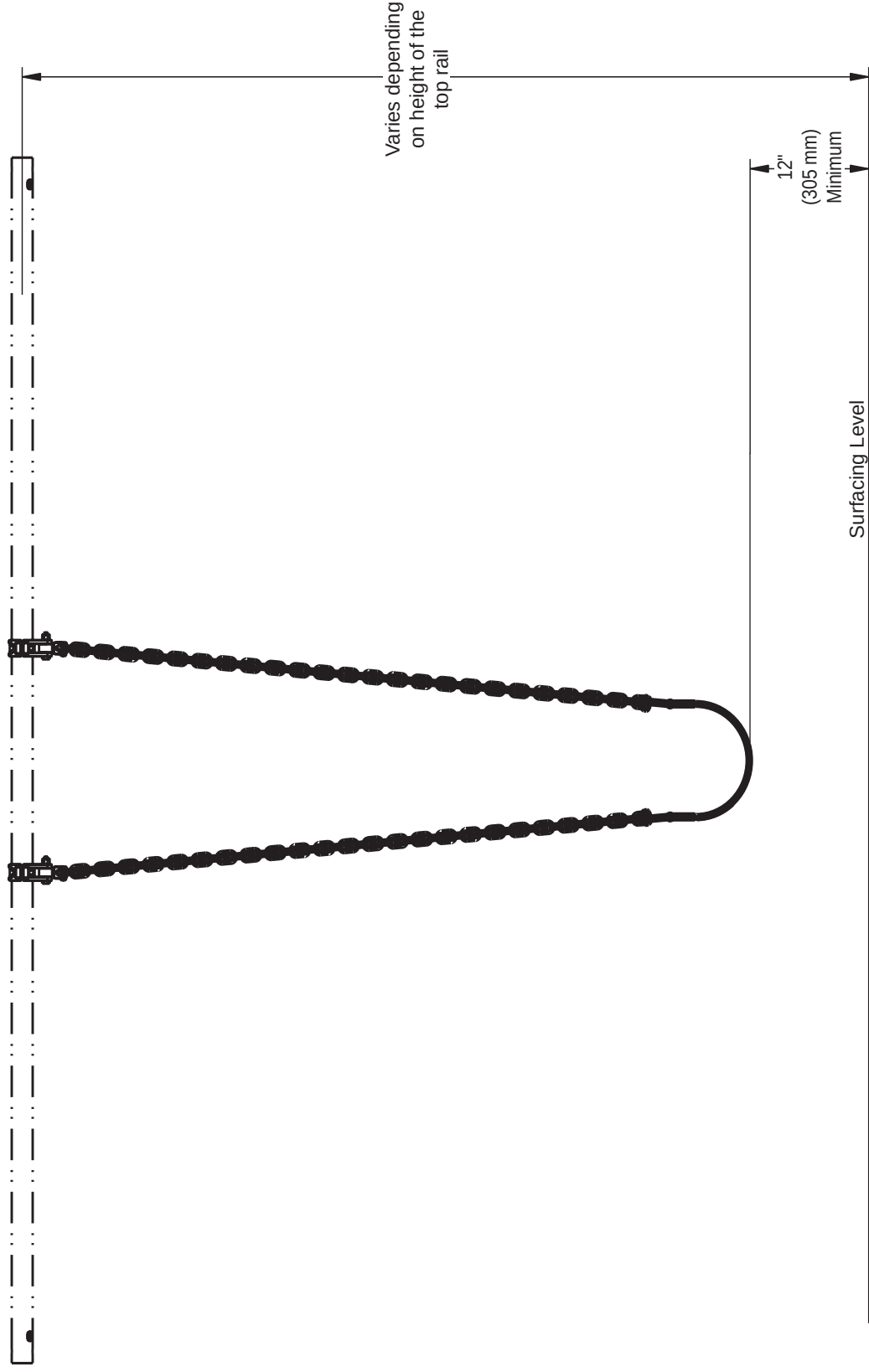
Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

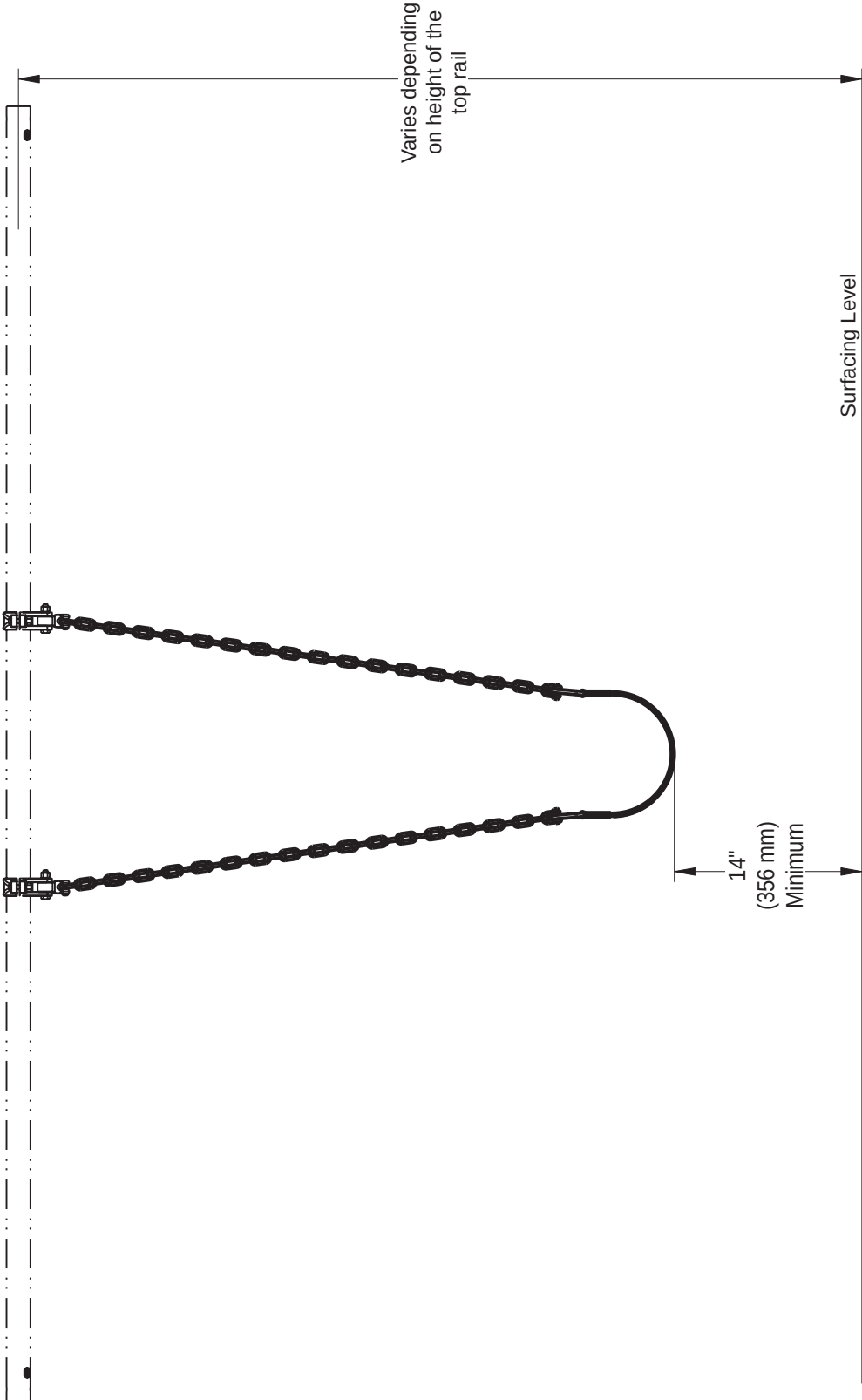


Elevation View (ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



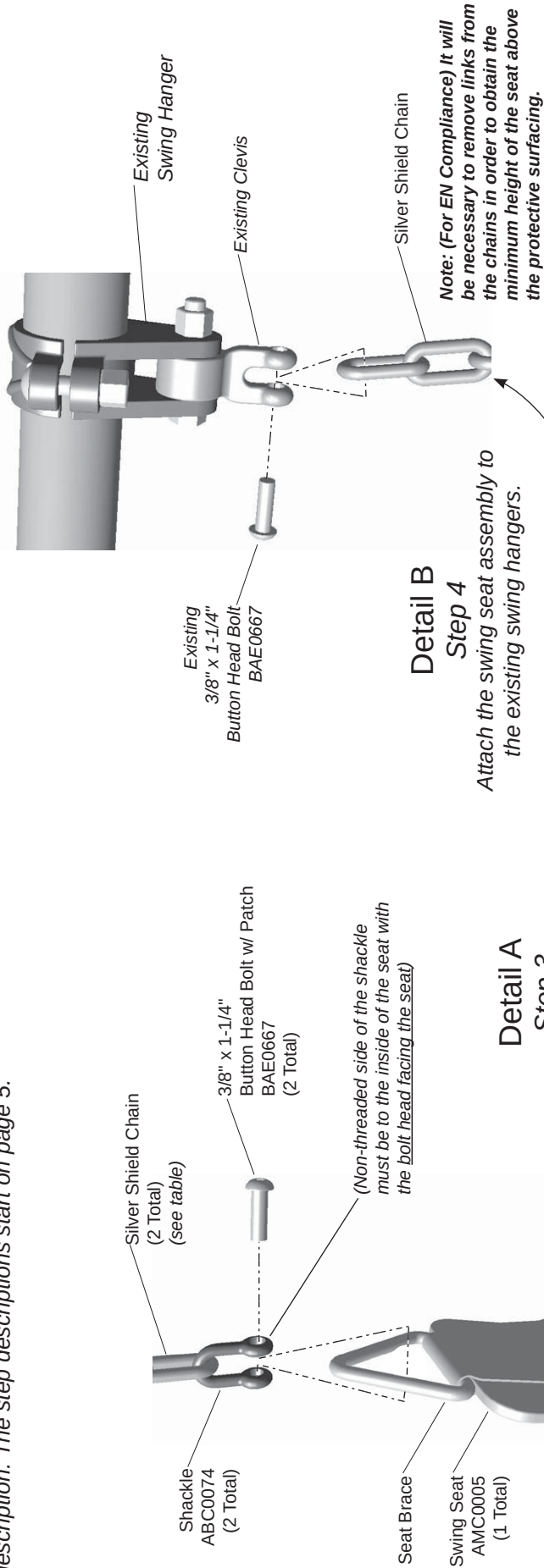
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B Step 4

Attach the swing seat assembly to the existing swing hangers.

Detail A Step 3

Attach the swing seat to the swing chains.

Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

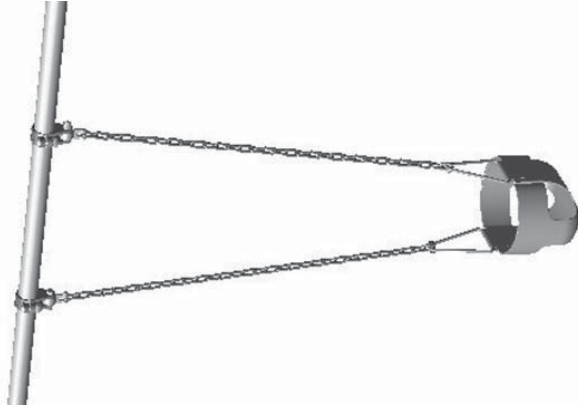
Date: ____ / ____ / ____





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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

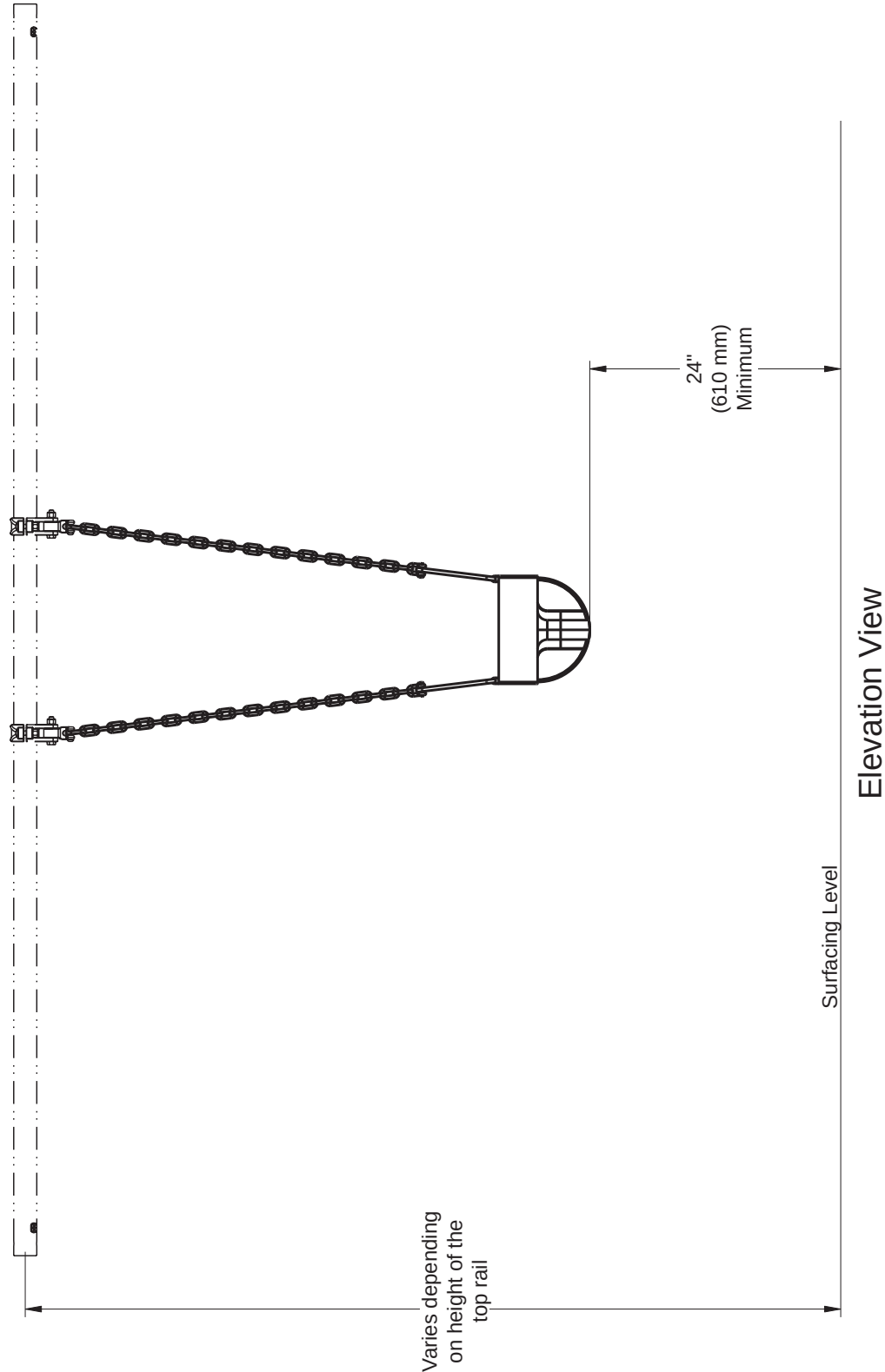
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions

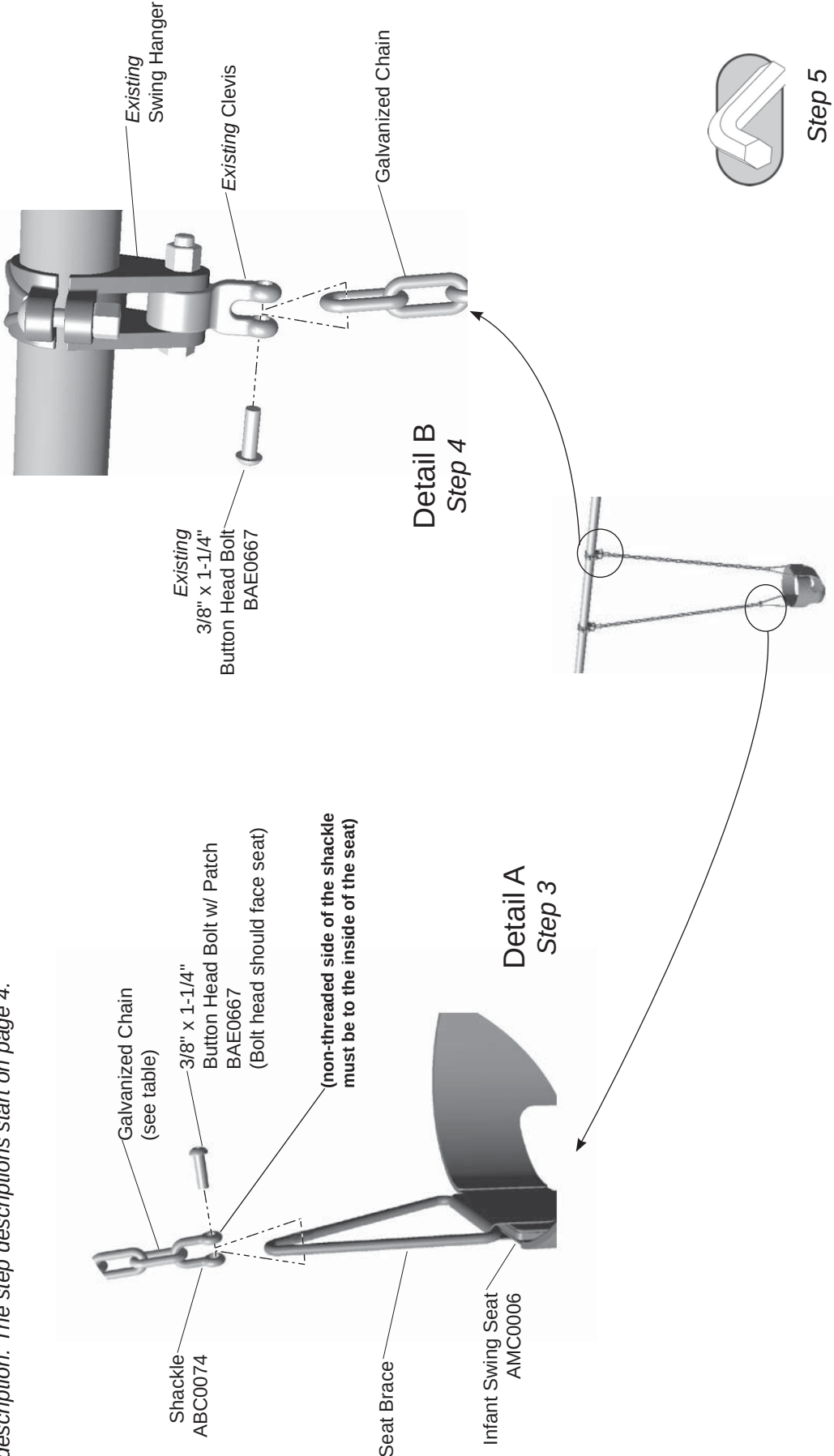


Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1


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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

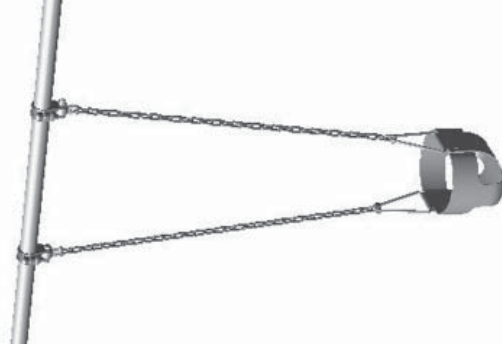
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®
Models XX0265, XX0266,
& XX0325
Infant Swing Seat with
Galvanized Chain



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Preventive Maintenance

... for Safety's Sake!

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- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

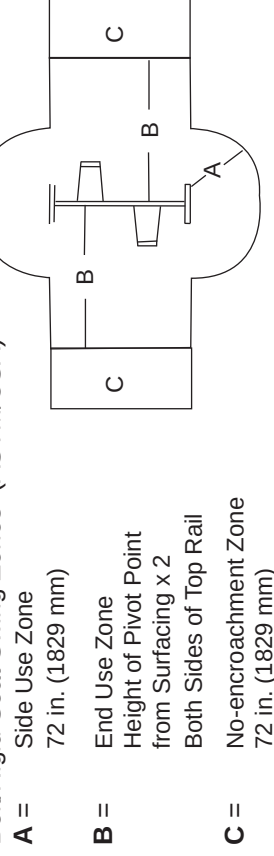
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)



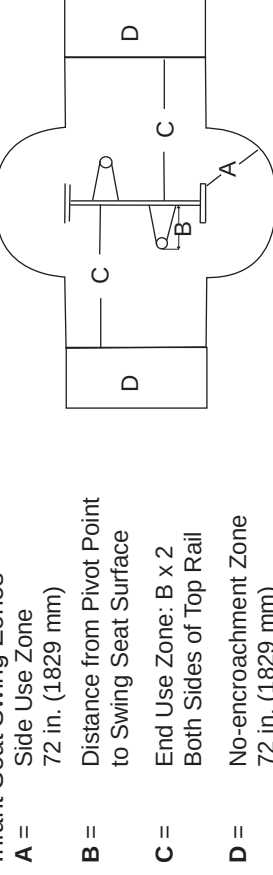
A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail

C = No-encroachment Zone
72 in. (1829 mm)

- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)

Installation Instructions

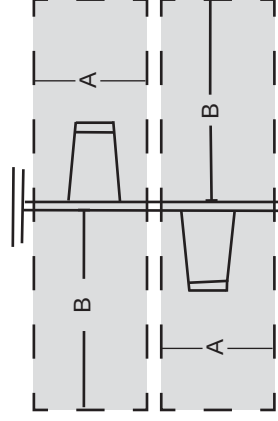
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

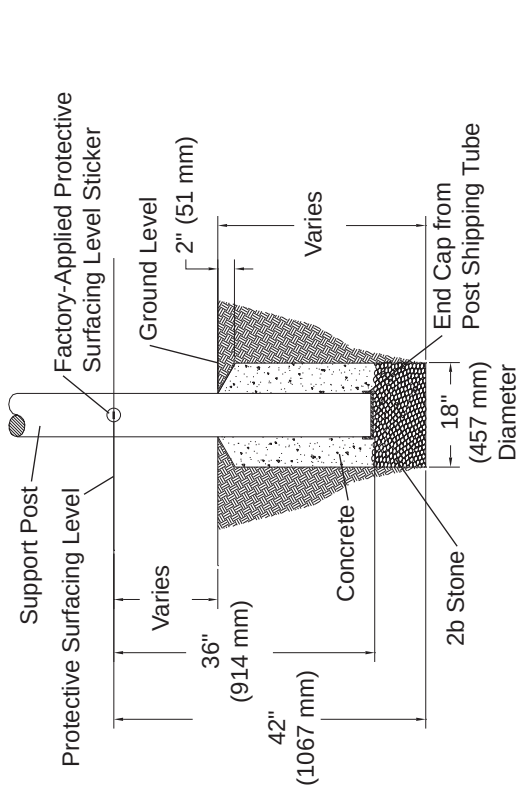
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

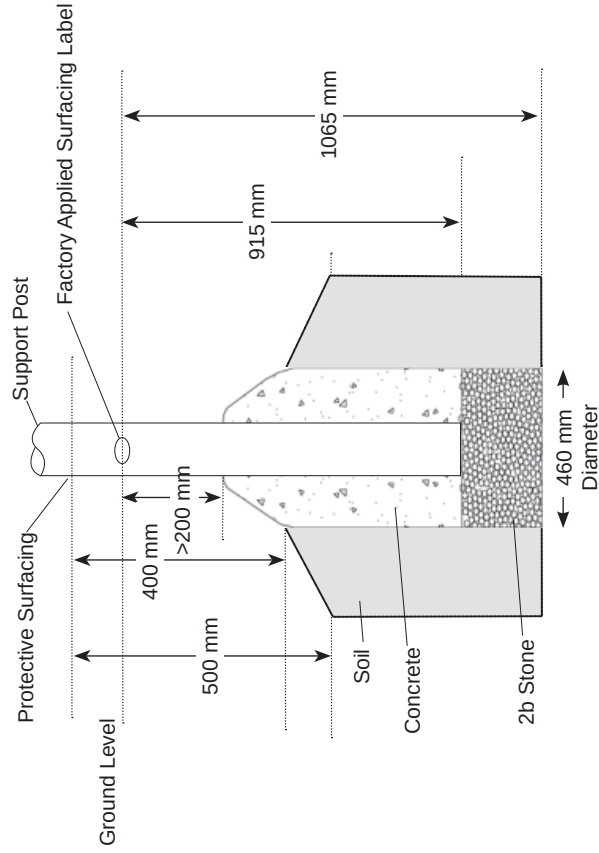
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

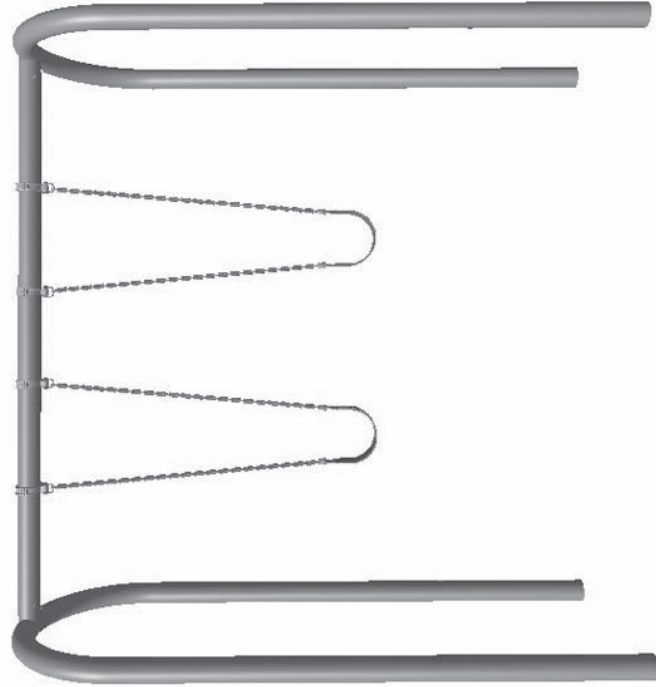
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



PLAYWORLD SYSTEMS®

The world needs play.™



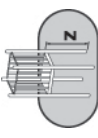
Assembly View (representative model)

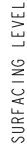
Installation Instructions Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Page 6 of 14

tot seat - 1545 mm (with seat at 610 above surfacing)

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

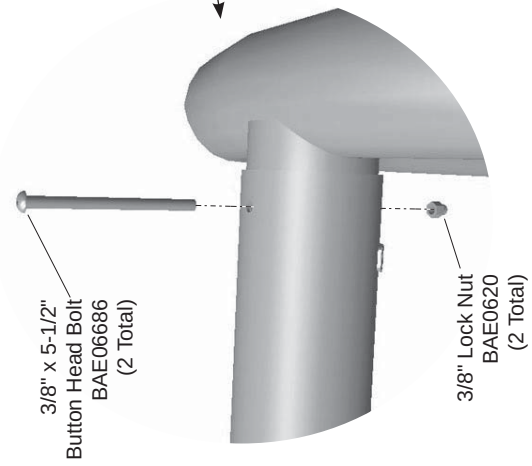
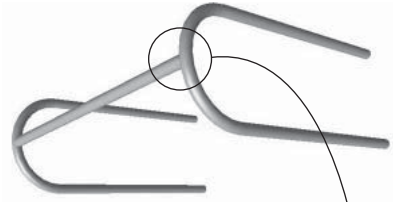
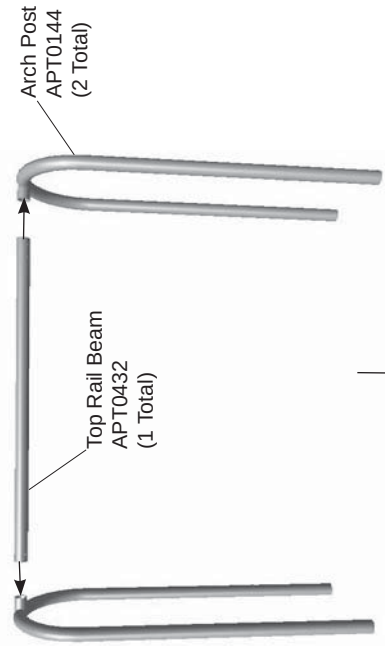


Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



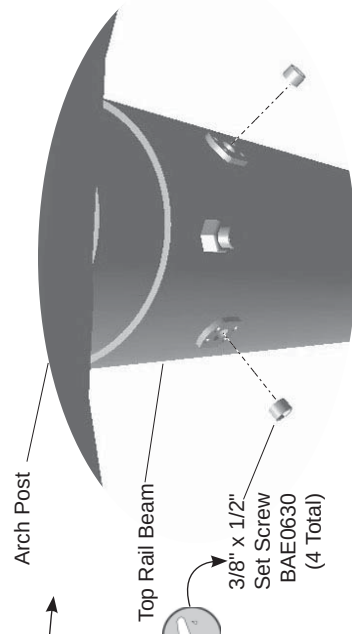
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the top rail to the arch posts.

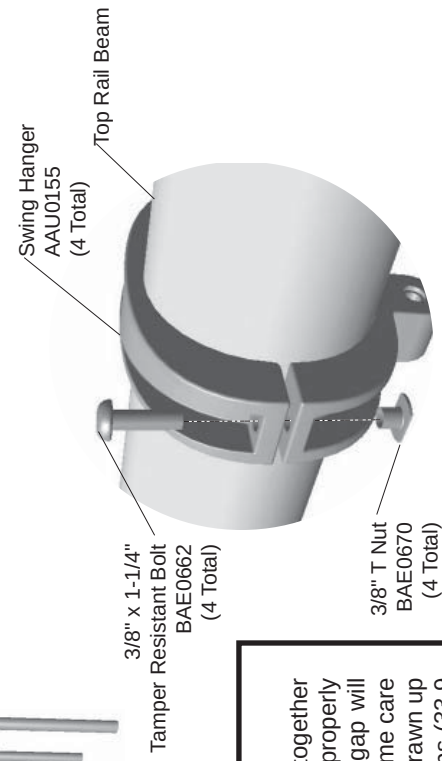


Underneath View



Detail B
Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.



Detail C
Step 8

Attach swing hangers to the top rail.

CAUTION

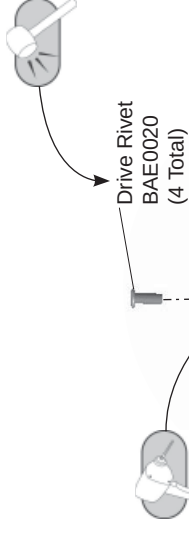
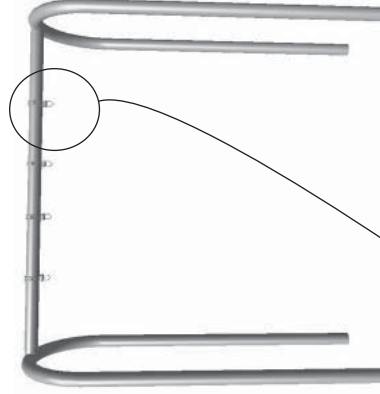
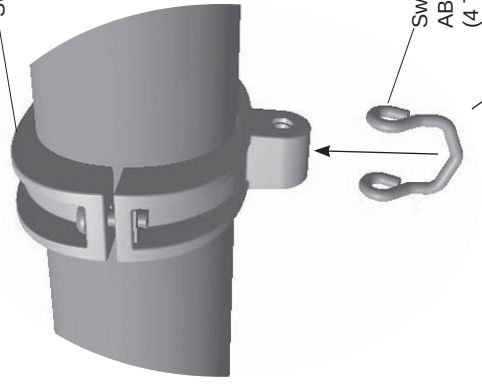
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

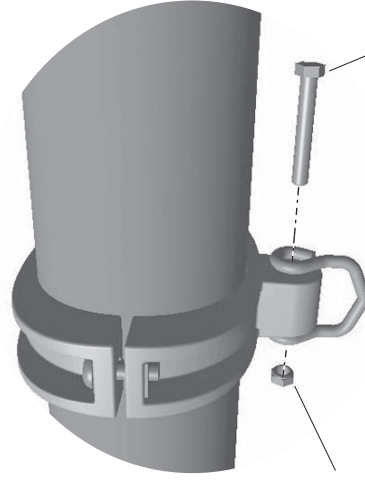
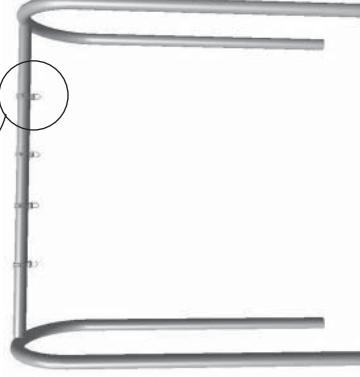
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

Swing Hanger



Detail E
Step 12
Secure the swing hangers to the top rail.



Detail D
Step 9

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


**PLAYWORLD
SYSTEMS®**

The world needs play.™

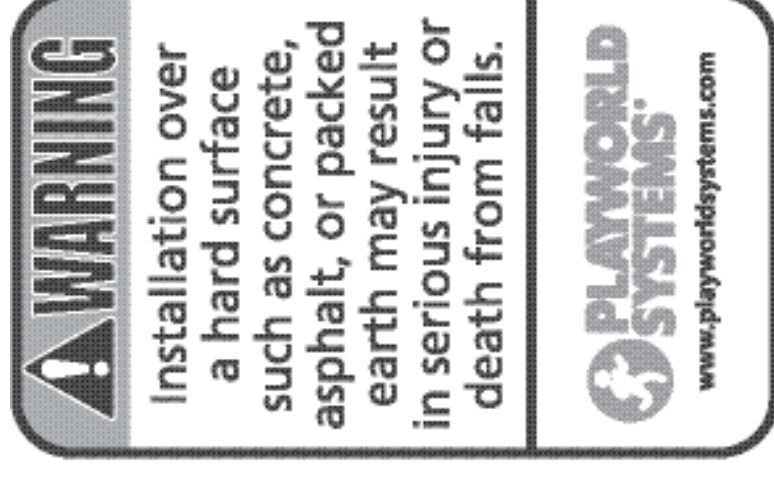
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

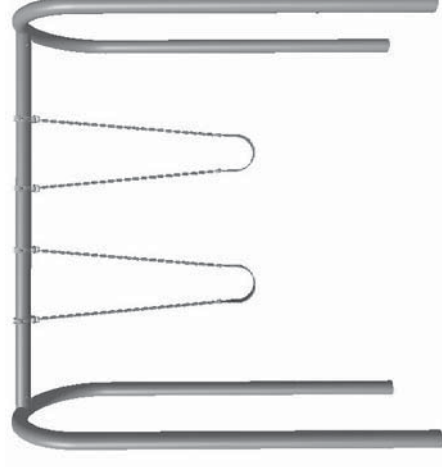
Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

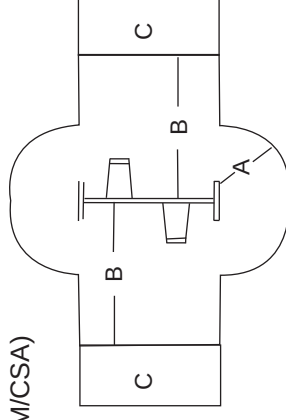
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2

C = Both Sides of Top Rail
No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

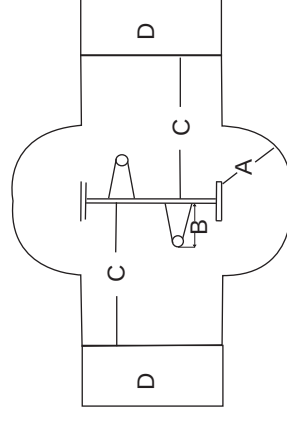
Infant Seat Swing Zones

A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

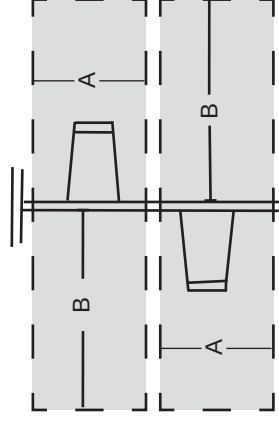
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: if 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Installation Instructions

Playworld Systems[®] Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

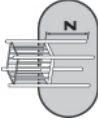


Assembly View

Installation Preparation

Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

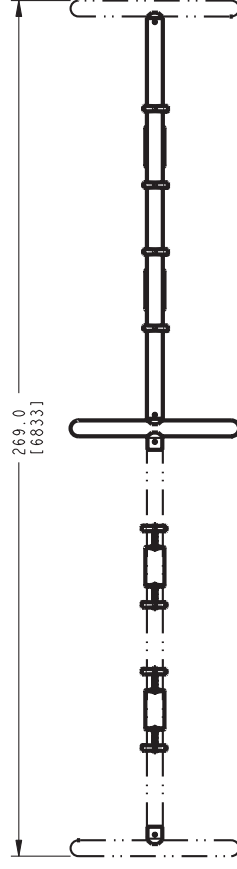
**Weights are approximate for determining manpower.*

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

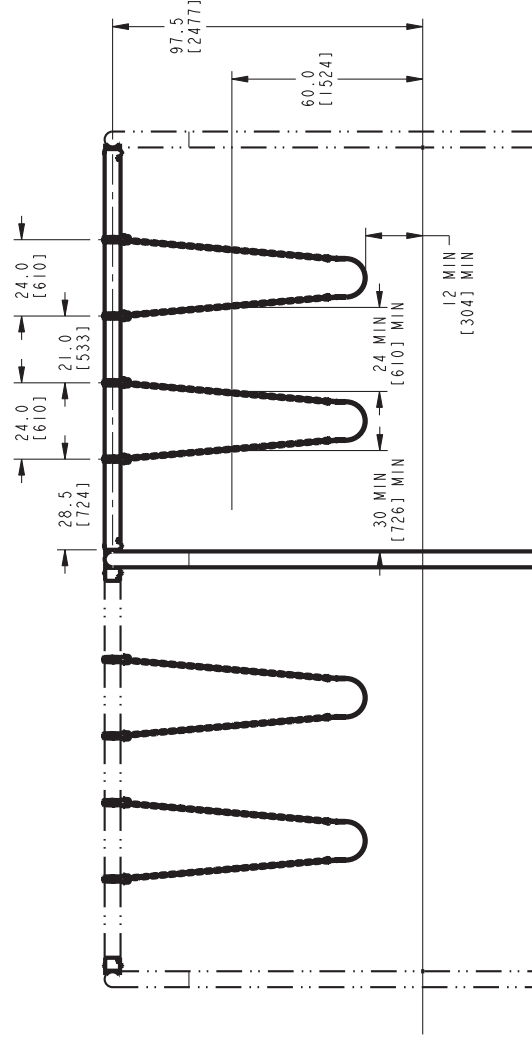
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

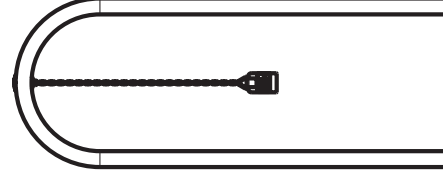
Top View



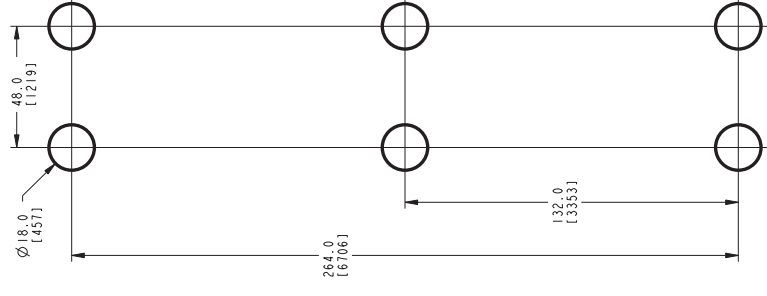
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

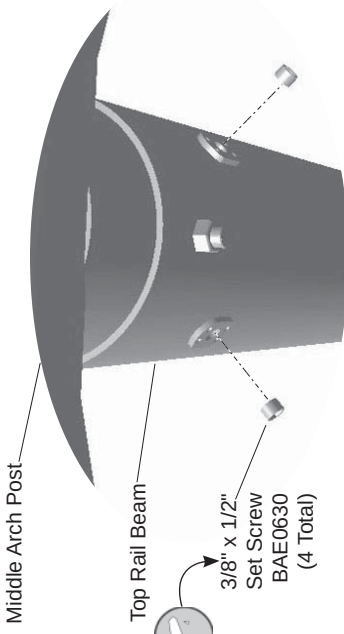
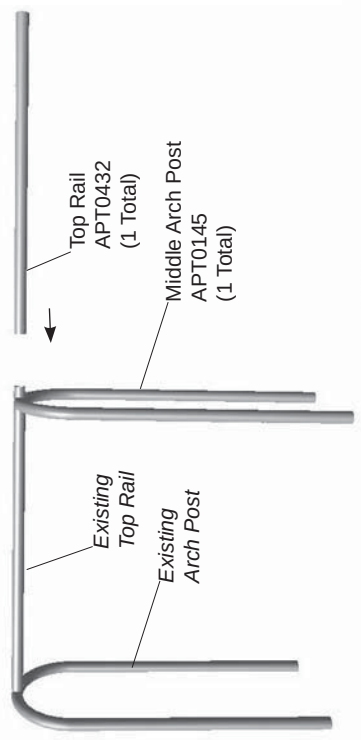


Footing Diagram



Installation Instructions

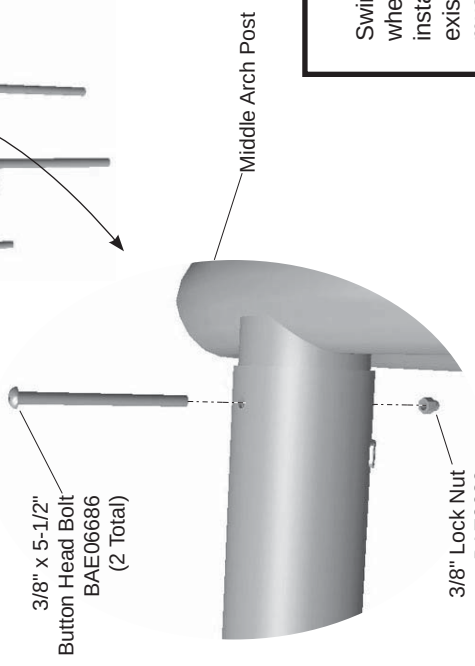
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

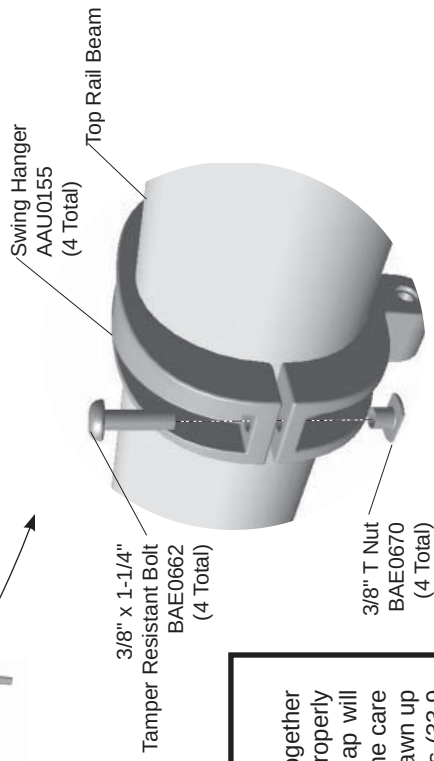
Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

Attach both top rails (new and existing) to the middle arch support.



Detail C Step 10

When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Attach swing hangers to the top rail.

CAUTION

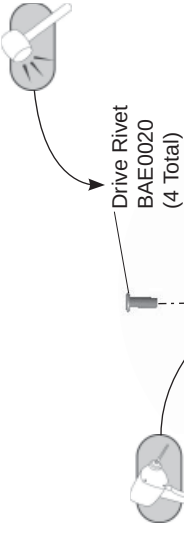
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

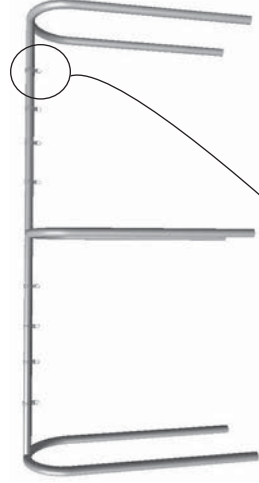
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

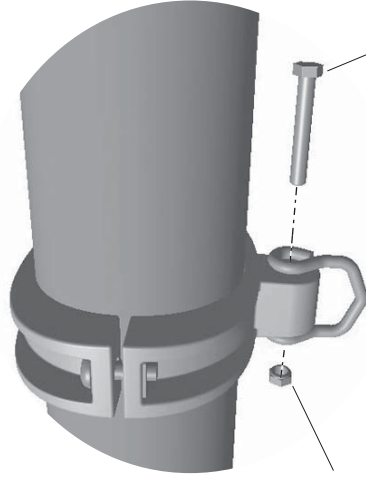
Swing Hanger



Drive Rivet
BAE0020
(4 Total)



Swing Clevis Connector
ABC0704
(4 Total)



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11

Attach each clevis to a swing hanger.

Detail E
Step 14
Secure the swing hangers to the top rail.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

**PLAYWORLD
SYSTEMS®**

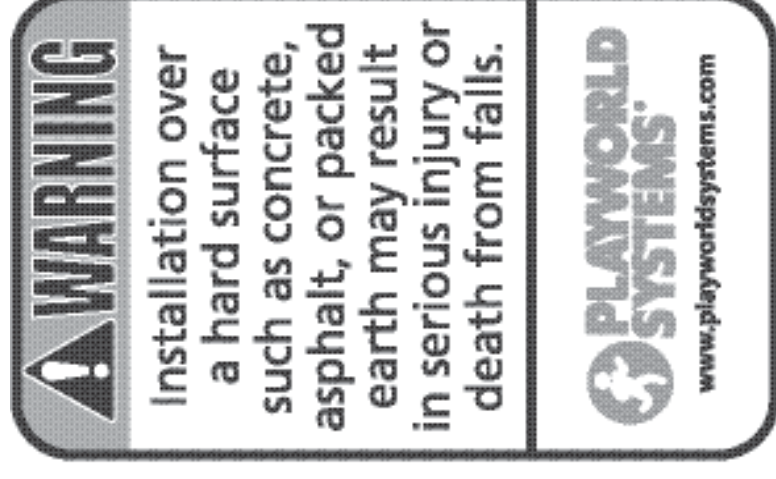
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

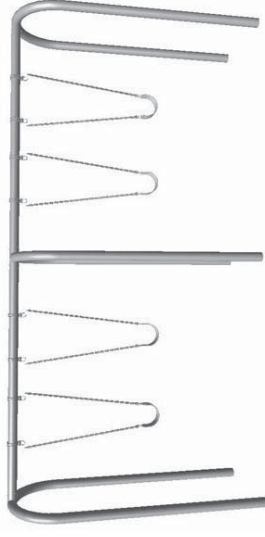
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



WESTPORT MEADOWS PARK

MANUFACTURERS' INSTALLATION INFORMATION

WESTPORT MEADOWS PARK

MADISON, WI

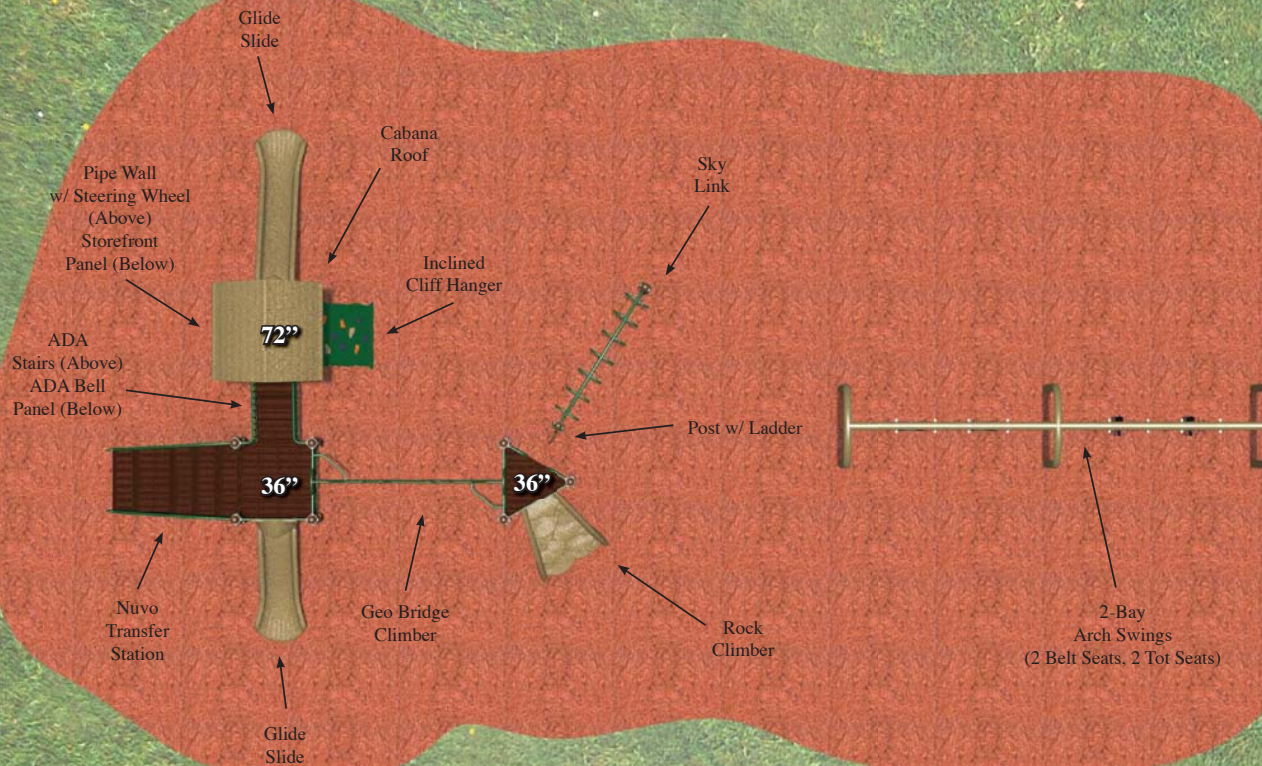
OPTION #2



WESTPORT MEADOWS PARK

MADISON, WI

OPTION #2



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW022514

Use Zone:

of Users: 38

of Active Play Events: 15

Colors Shown:



Chocolate



Brownstone



Green



Westport Meadows

Design Number: 23 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60		108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62		179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00		1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40		773	0	3.00	0.26	0
5	ZZPM0026	7	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	519.47		759	0	7.00	0.84	0
6	ZZPM0036GZ	1	5in OD X 144in STEEL POST (GROUND ZERO)	Certified	80.41		117	0	1.50	0.18	0
7	ZZPM0129	4	5in OD x 192in STEEL POST W/O CAP	Certified	421.64		578	0	4.00	0.48	0
8	ZZPM0616	2	SQUARE COATED DECK ASSEMBLY	Certified	180.72		441	8	2.00	0.00	0
9	ZZPM0617	1	TRIANGULAR COATED DECK ASSEMBLY	Certified	46.40		169	2	1.00	0.00	0
10	ZZPM0678	1	NUVO- 48in TRANSFER STATION	Certified	350.11		609	2	3.50	0.12	1
11	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44		678	2	2.00	0.03	1
12	ZZPM3126	1	GLIDE SLIDE (48in DECK)	Certified	131.54		517	2	2.00	0.03	1
13	ZZPM4646	1	STOREFRONT PANEL	Certified	44.80		279	2	1.00	0.00	1
14	ZZUN4280	1	TELESCOPE (PIPE WALL MOUNT FOR 4in RUNG CENTERS)	Certified	12.33		61	1	0.50	0.00	1
15	ZZPM4090	1	CENTERLINE PIPE WALL BARRIER	Certified	37.22		95	0	0.50	0.00	0
16	ZZPM4288	1	ACCESS GATE	Certified	34.38		92	0	0.50	0.00	0
17	ZZPM6989	1	INCLINED CLIFF HANGER (72in DECK)	Certified	178.50		707	2	2.50	0.06	1
18	ZZPM7439	1	ROCK CLIMBER (48in DECK)	Certified	153.48		607	3	2.00	0.03	1
19	ZZPM0297	1	POST W/ LADDER CLIMBER (36in OR 48in DECK)	Certified	74.81		131	1	0.50	0.13	1
20	ZZPM8450	1	THE SKY LINK	Certified	55.09		129	2	0.50	0.00	1
21	ZZPM6700	1	GEO BRIDGE CLIMBER	Certified	171.10		498	3	2.00	0.00	1
22	ZZPM4409	1	ACCESSIBLE BELL PANEL	Certified	32.28		275	1	0.50	0.00	1



Westport Meadows

Design Number: 23 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM9846	1	CABANA ROOF	Certified	123.05		527	0	0.50	0.00	0
24	ZZPM9170	1	24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	174.86		374	1	2.00	0.00	0
Totals:					3,384.25	516	933	36	43.00	2.68	15
					1,522.91 Kg	232 Kg	420 Kg	10 Metric Tons		2.04 m3	





Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268

Steel Support Post w/ Cap

96 in. (2438 mm) to 229 in. (5817 mm)

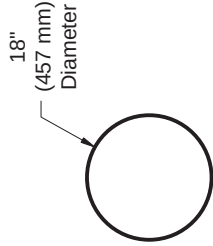
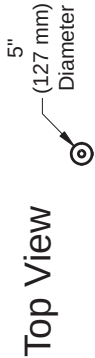


Assembly View (representative model)

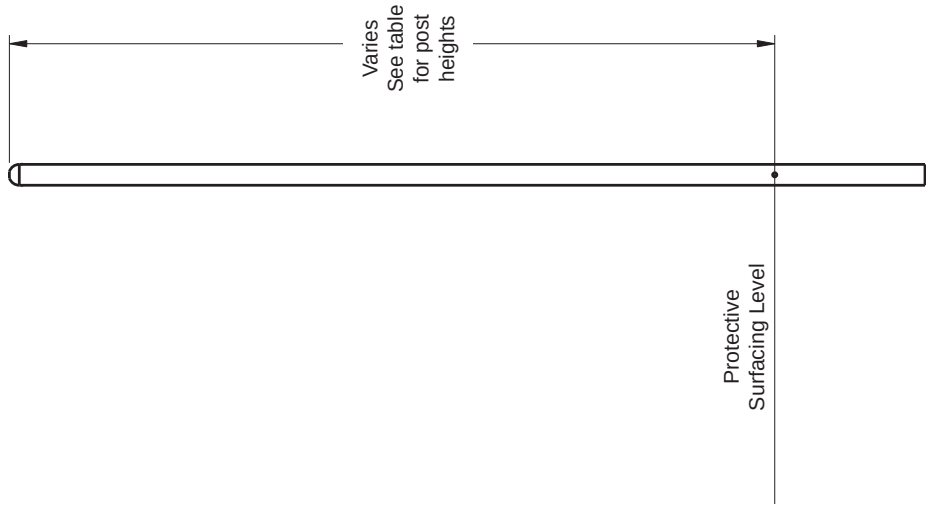
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006	96" (2438 mm)	54.2 lbs. (24.4 kg)
ZZPM0008	108" (2743 mm)	60.5 lbs. (27.2 kg)
ZZPM0016	120" (3048 mm)	67.1 lbs. (34.2 kg)
ZZPM0026	132" (3353 mm)	76 lbs. (34.2 kg)
ZZPM0036	144" (3658 mm)	80.9 lbs. (36.4 kg)
ZZPM0046	156" (3962 mm)	87.7 lbs. (49.5 kg)
ZZPM0056	168" (4267 mm)	92.5 lbs. (41.6 kg)
ZZPM0066	180" (4623 mm)	103 lbs. (46.8 kg)
ZZPM0078	205" (5207 mm)	118 lbs. (53.6 kg)
ZZPM0128	192" (4877 mm)	110 lbs. (49.5 kg)
ZZPM0266	217" (5512 mm)	114 lbs. (51.8 kg)
ZZPM0268	229" (5817 mm)	121 lbs. (55 kg)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)			PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5006	DESCRIPTION POST - 5" O.D. x 96" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5020	DESCRIPTION POST - 5" O.D. x 180" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)			PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)		
PART NO. CAP5008	DESCRIPTION POST - 5" O.D. x 108" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5022	DESCRIPTION POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)			PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)		
PART NO. CAP5010	DESCRIPTION POST - 5" O.D. x 120" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP5062	DESCRIPTION POST - 5" O.D. x 205" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)			PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)		
PART NO. CAP5012	DESCRIPTION POST - 5" O.D. x 132" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP0424	DESCRIPTION POST - 5" O.D. x 217" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)			PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO. CAP5014	DESCRIPTION POST - 5" O.D. x 144" STEEL w/ CAP & LBLAT 36"	QTY. 1	PART NO. CAP0426	DESCRIPTION POST - 5" O.D. x 229" STEEL w/ CAP & LBLAT 36"	QTY. 1
PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)					
PART NO. CAP5016	DESCRIPTION POST - 5" O.D. x 156" STEEL w/ CAP & LBLAT 36"	QTY. 1			
PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)					
PART NO. CAP5018	DESCRIPTION POST - 5" O.D. x 168" STEEL w/ CAP & LBLAT 36"	QTY. 1			

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Installation Instructions

Playmakers® Models PM0008GZ,
PM0036GZ, PM0056GZ, & PM0066GZ
GroundZero® Steel Support Post w/ Cap
108 in. (2743 mm), 144 in. (3658 mm),
168 in. (4267 mm), & 180 in. (4623 mm)



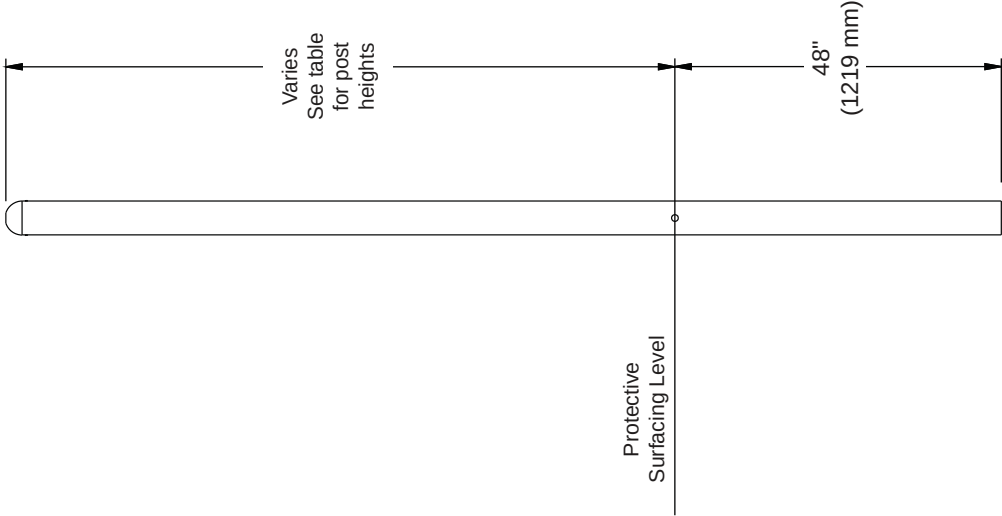
Assembly View (representative model)

Installation Preparation

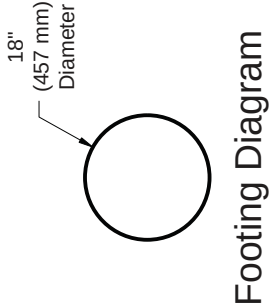
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.18 cubic yard (0.14 cubic meters)

Installation Instructions

Top View



Elevation View



Model	Post Height	Weight
ZZPM0008GZ	108" (2743 mm)	60.6 lbs. (27,5 kg)
ZZPM0036GZ	144" (3658 mm)	80.4 lbs. (36,2 kg)
ZZPM0056GZ	168" (4267 mm)	97 lbs. (43,7 kg)
ZZPM0066GZ	180" (4623 mm)	104.2 lbs. (47,4 kg)



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**. Ensure the hole is at GroundZero® depth.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0008GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5026	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 48"	1

PM0036GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5027	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 48"	1

PM0056GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP0286	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 48"	1

PM0066GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5073	POST - 5.00" O.D. x 180.00" STEEL w/ CAP & LBL AT 48"	1

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Installation Instructions

Playmakers® Models PM0017, PM0027, PM0037, PM0047, PM0057, PM0067, PM0079, PM0129, PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)



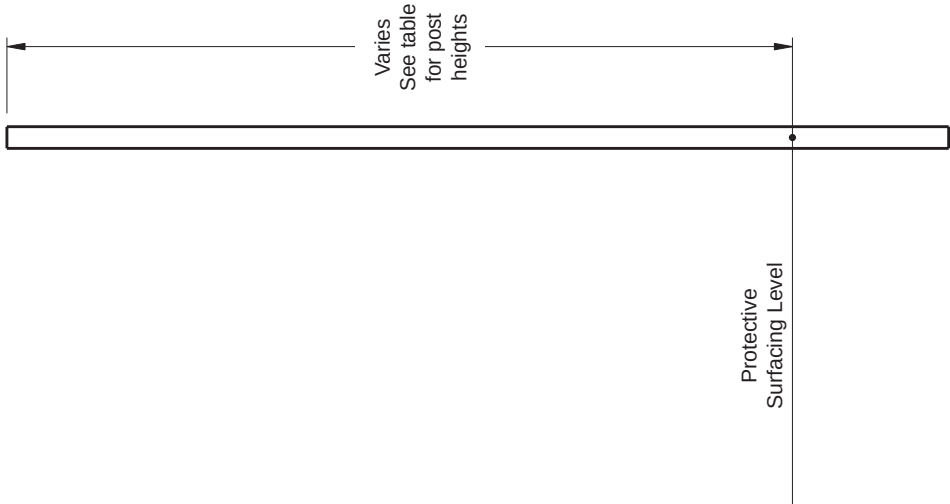
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	0.12 cubic yard (0.09 cubic meters)

Installation Instructions

Top View



Footing Diagram

Model	Post Height	Weight
ZZPM0017	120" (3048 mm)	65.7 lbs. (29,6 kg)
ZZPM0027	132" (3353 mm)	74.4 lbs. (34,4 kg)
ZZPM0037	144" (3658 mm)	78.8 lbs. (35,5 kg)
ZZPM0047	156" (3962 mm)	85.3 lbs. (38,4 kg)
ZZPM0057	168" (4267 mm)	91.8 lbs. (41,3 kg)
ZZPM0067	180" (4572 mm)	102 lbs. (46,4 kg)
ZZPM0079	205" (5207 mm)	117 lbs. (53,2 kg)
ZZPM0129	192" (4877 mm)	109 lbs. (49,5 kg)
ZZPM0136	96" (2438 mm)	52.6 lbs. (23,7 kg)
ZZPM0138	108" (2743 mm)	60.5 lbs. (27,2 kg)
ZZPM0267	217" (5512 mm)	113 lbs. (51,4 kg)
ZZPM0269	229" (5817 mm)	120 lbs. (54,5 kg)

Elevation View



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

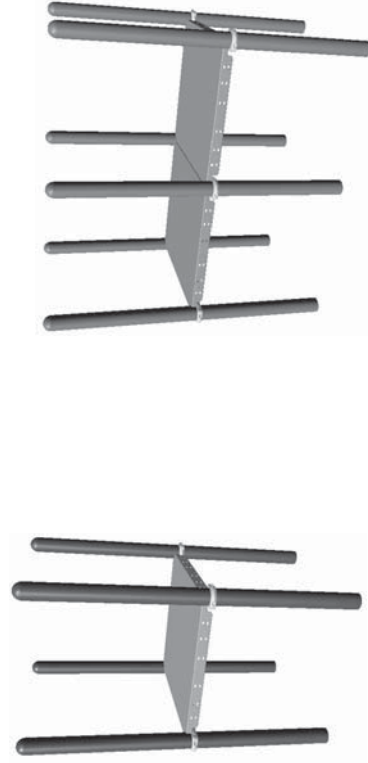
Bill of Materials

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)				PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)				PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)				PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBLAT 36"	1		BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)				PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)				PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)			
PART NO.	DESCRIPTION	QTY.		PART NO.	DESCRIPTION	QTY.	
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBLAT 36"	1		BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBLAT 36"	1	
PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBLAT 36"	1					
PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)							
PART NO.	DESCRIPTION	QTY.					
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBLAT 36"	1					



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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck

ZZPM0629
Long Deck

Assembly View

Installation Preparation

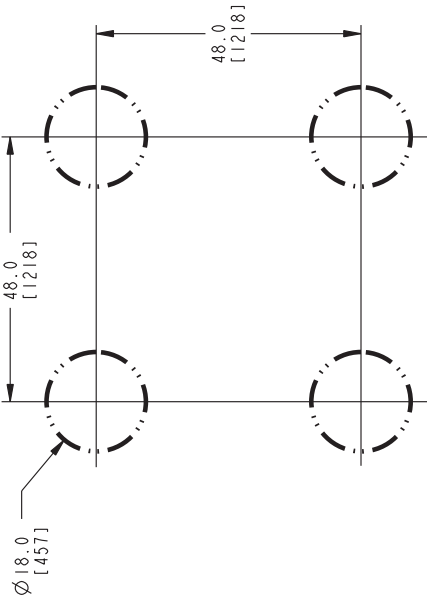
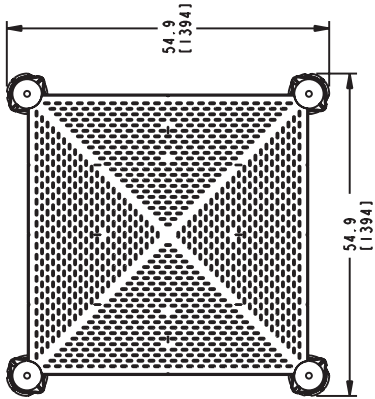
Recommended Crew (PM0616): Two (2) adults
 Recommended Crew (PM0629): Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

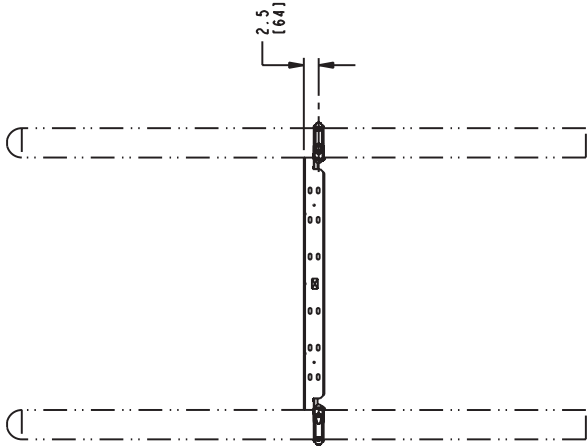
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram



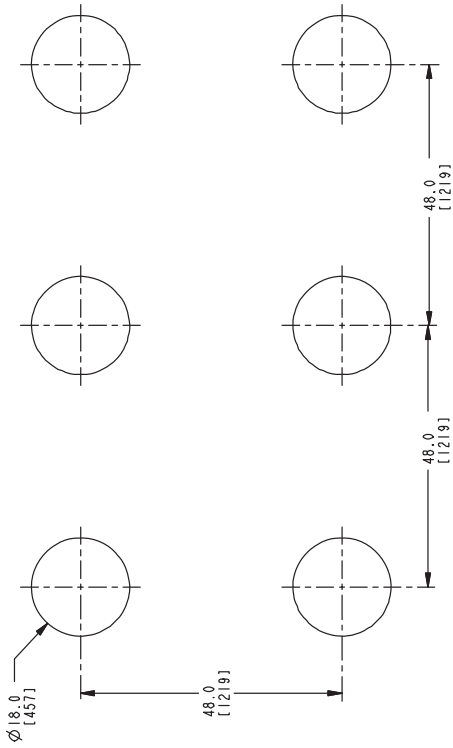
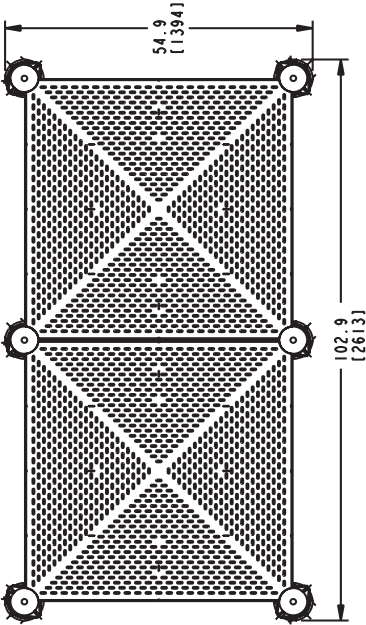
Elevation View
Model PM0616



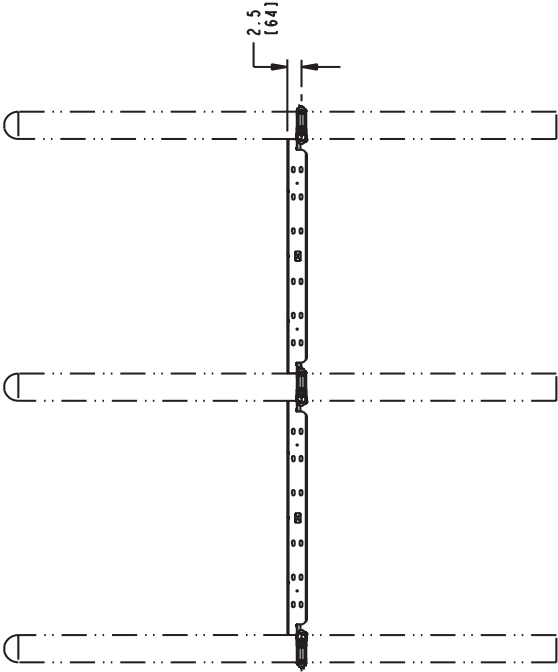
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	Millimeters	

Top View



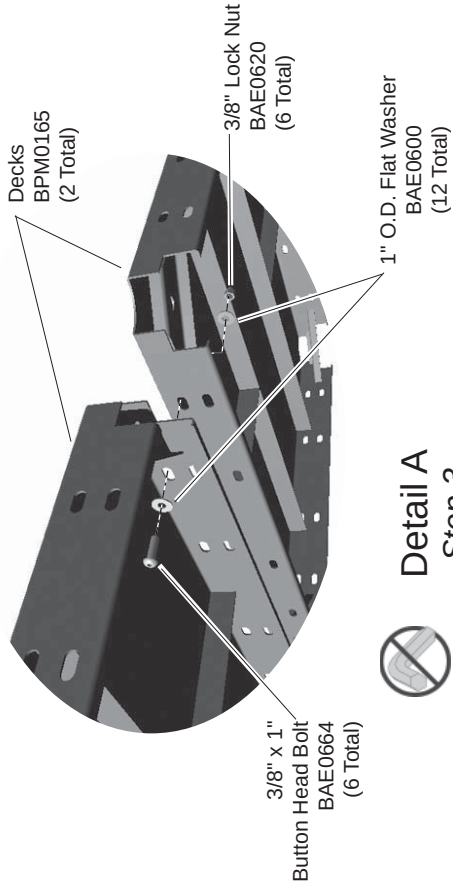
Footing Diagram



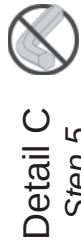
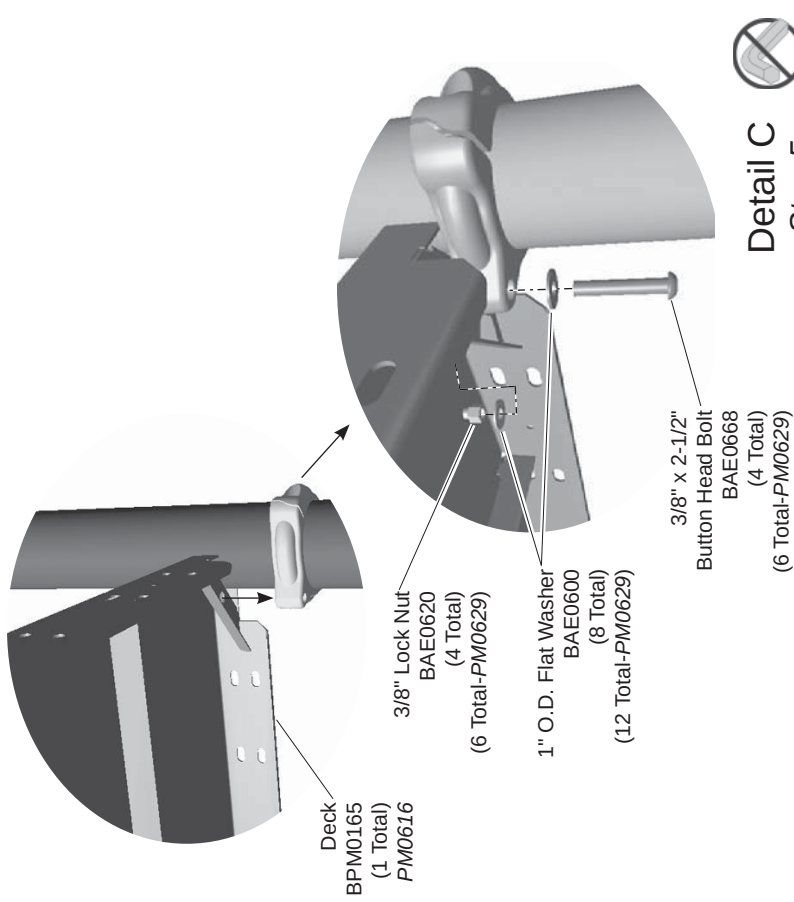
Elevation View
Model PM0629

Installation Instructions

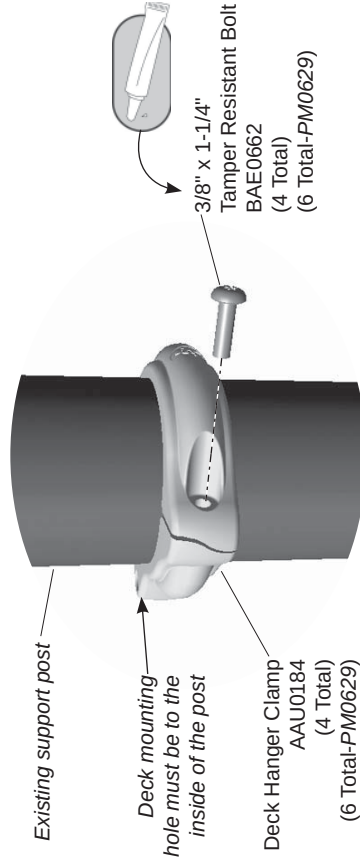
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



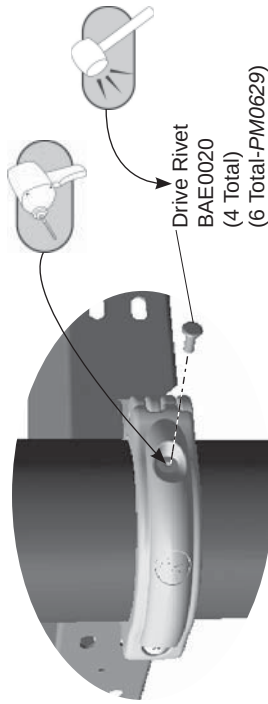
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail C
Step 5
Attach the decks to the clamps.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0165	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0165	PLATFORM - PM SQUARE PERF	2

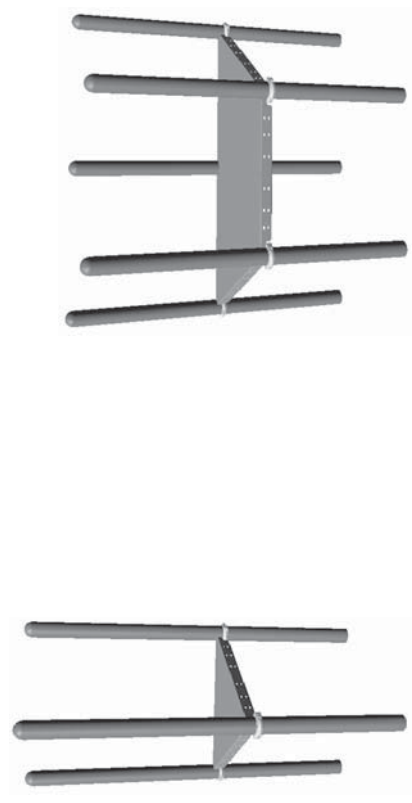
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Installation Instructions

Playmakers® PM0617, and PM0618

Triangular and Half Hex

Coated Perforated Decks



ZZPM0617
Triangular Deck

ZZPM0618
Half Hex Deck

Assembly View

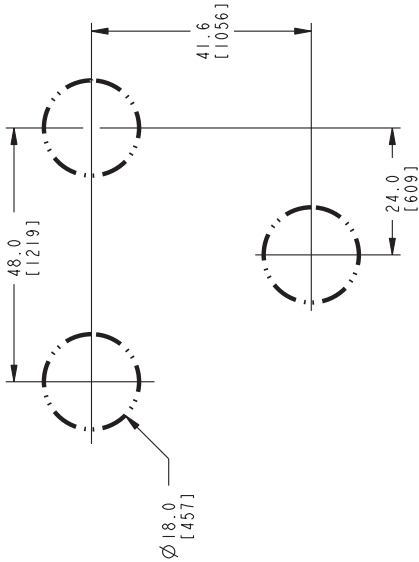
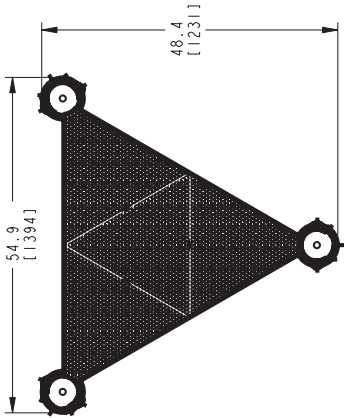
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

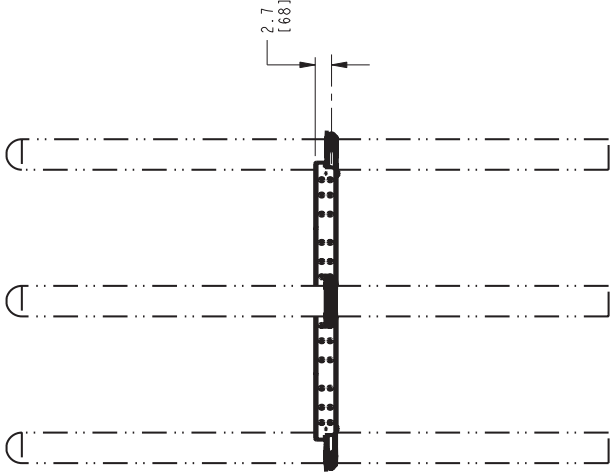
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram

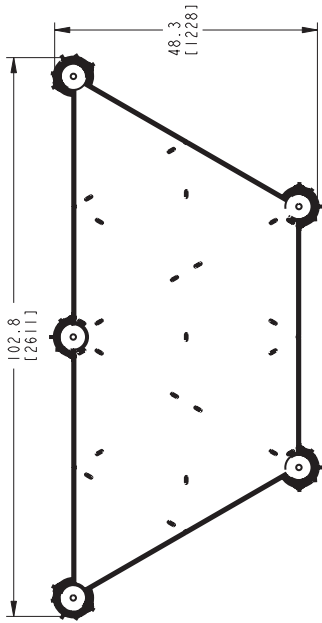


Elevation View
Model PM0617

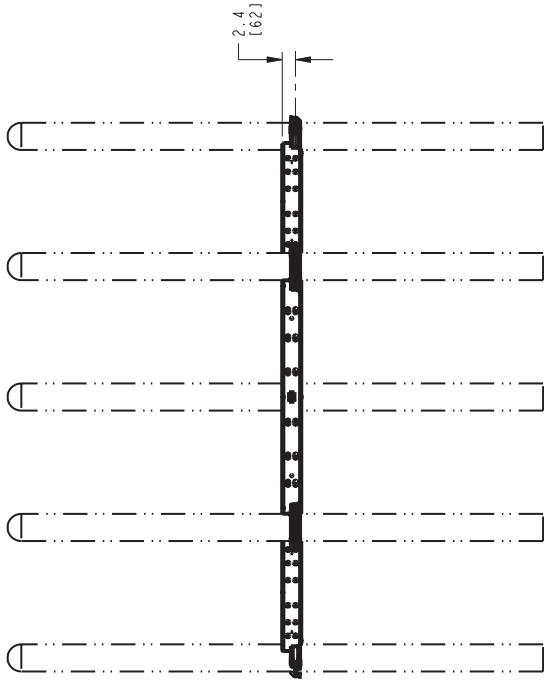
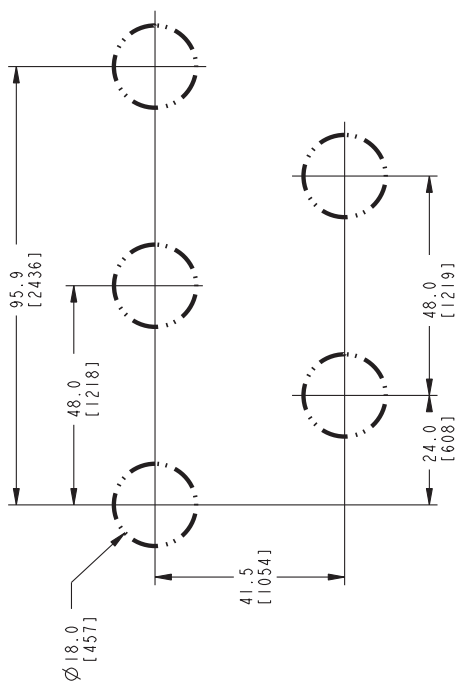
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



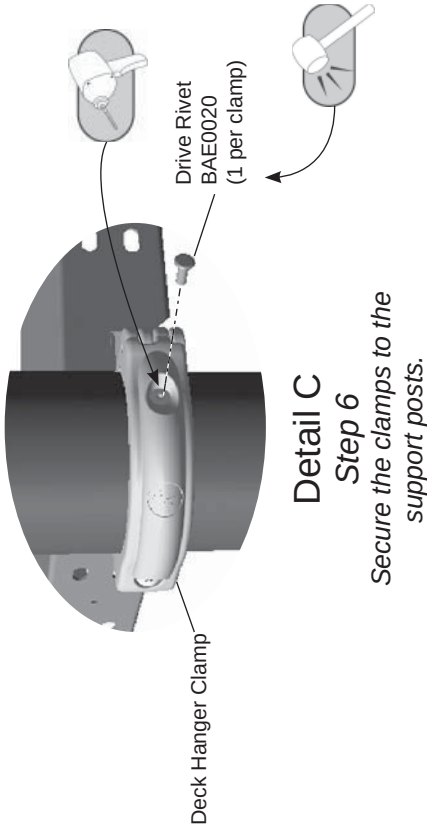
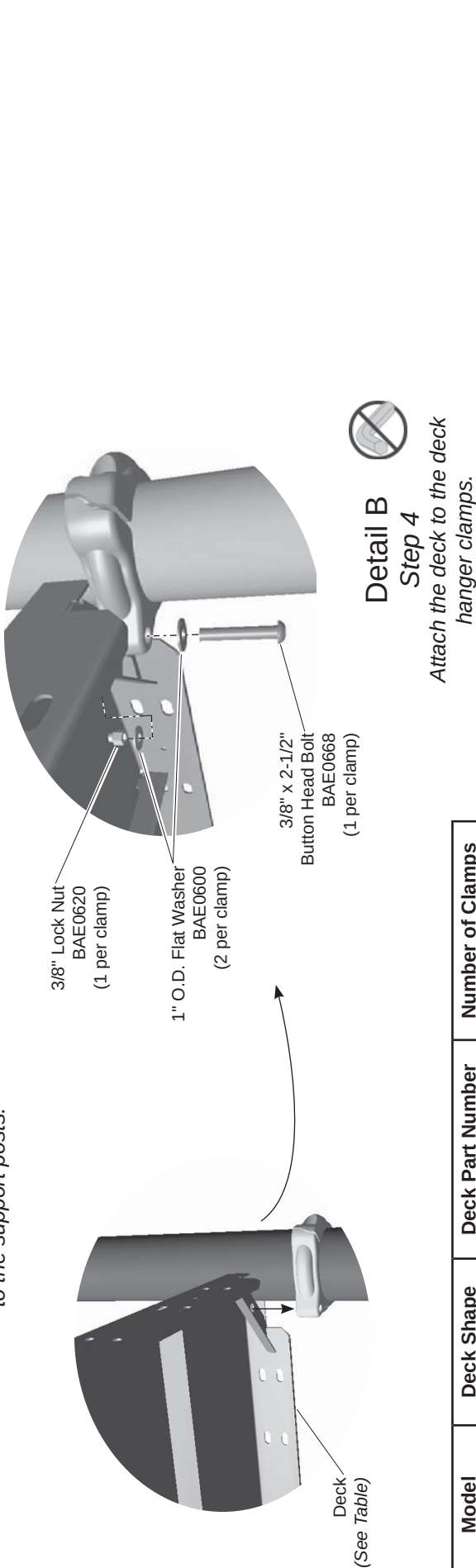
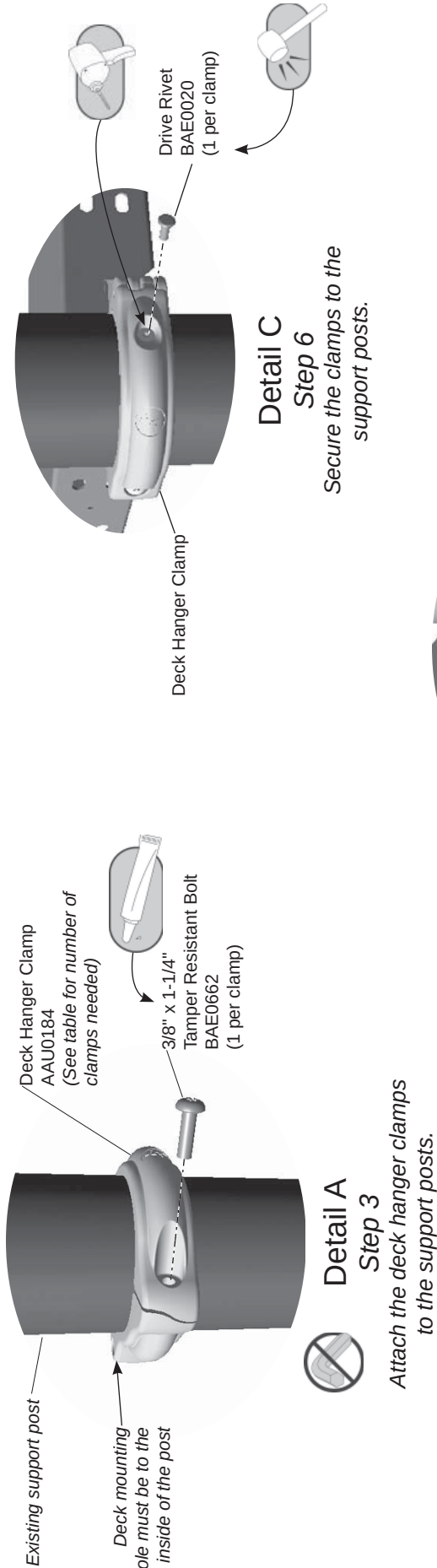
Footing Diagram



Elevation View
Model PM0618

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Deck Shape	Deck Part Number	Number of Clamps
ZZPM0617	Triangular	BPM0166	3
ZZPM0618	Half Hex	BPM0167	5



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A** and the **Parts Table** on **page 4**. Select the appropriate number of deck hanger clamps for your deck model and hardware. There is (1) one connection per clamp. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B** and the **Parts Table** on **page 5**. Select the appropriate deck and hardware. There is (1) one connection per clamp to deck. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

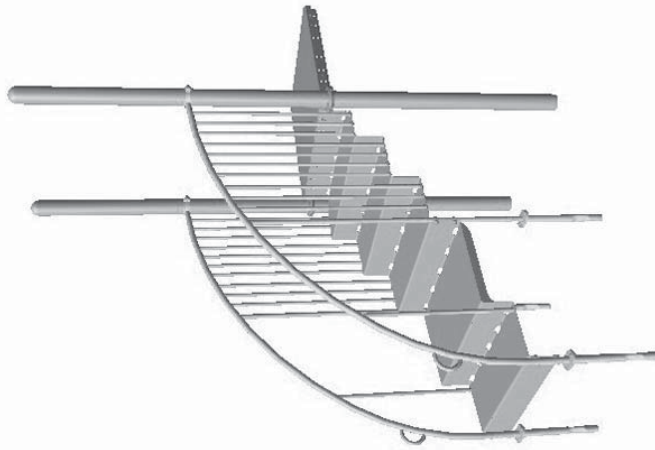
PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0166	PLATFORM - PM TRIANGULAR PERF	1

PM0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	5
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	5
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	5
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	5
BPM0167	PLATFORM - PM HALF HEX PERF	1



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Assembly View (representative model)

Installation Instructions

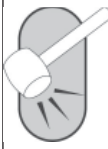
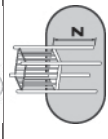
Playmakers® Models PM0678, PM0678S,
PM0679 and PM0679S

Nuvo™ Transfer Station

48 in. (1219 mm) and 36 in. (914 mm) Decks
In-Ground and Surface Mount

Installation Preparation

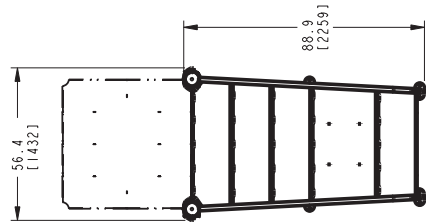
Recommended Crew: Two (2) adults
 Installation Time (In-ground): 3.5 man-hours
 Installation Time (Surface Mount): 1.5 man-hours
 Concrete Required: 0.12 cubic yard (0,08 cubic meters)
 Use Zone: Refer to the master layout drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

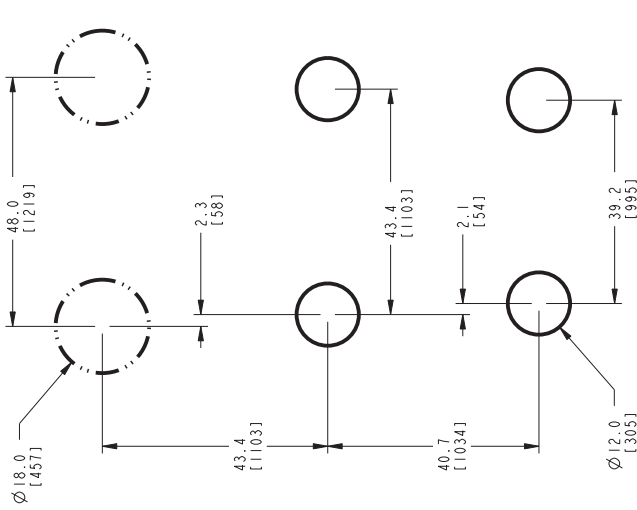
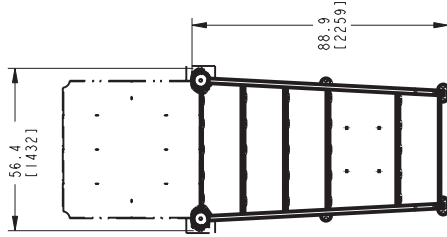
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

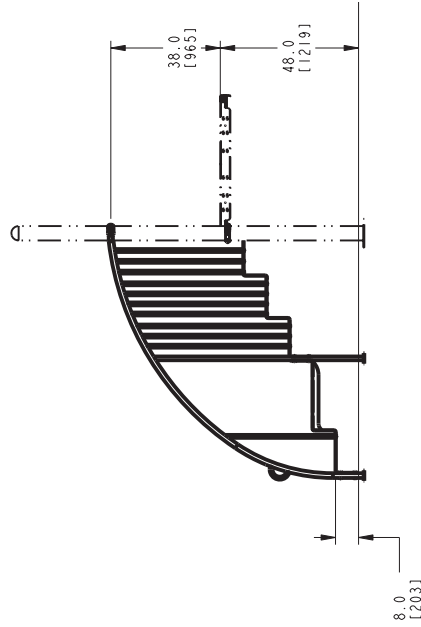
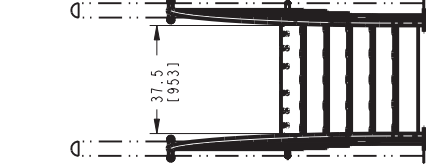
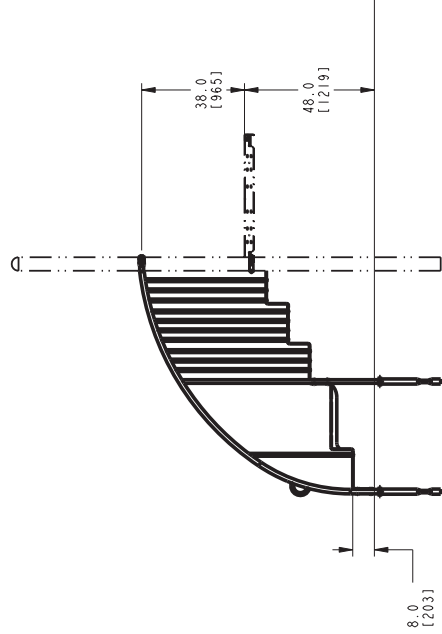
Top View



Top View



Footing Diagram
Both Models



Elevation Views
PM0678



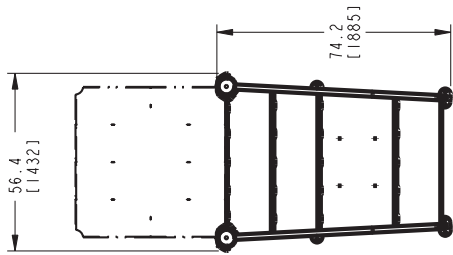
Elevation Views
PM0678S



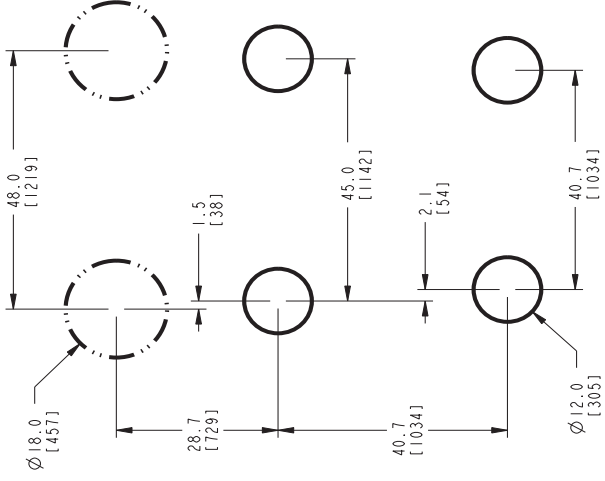
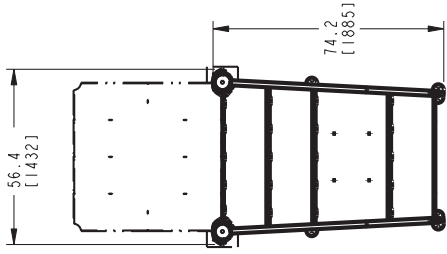
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

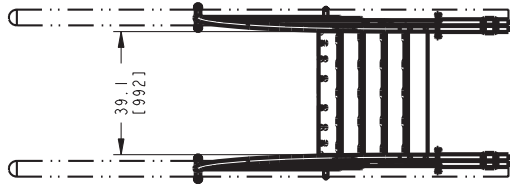
Top View



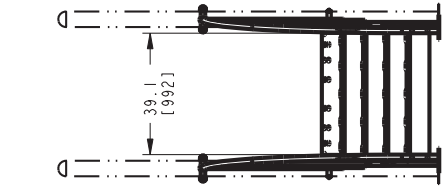
Top View



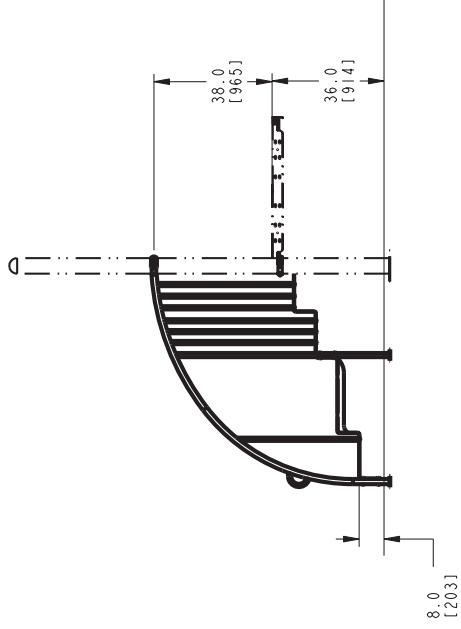
Footing Diagram
Both Models



Elevation Views
PM0679

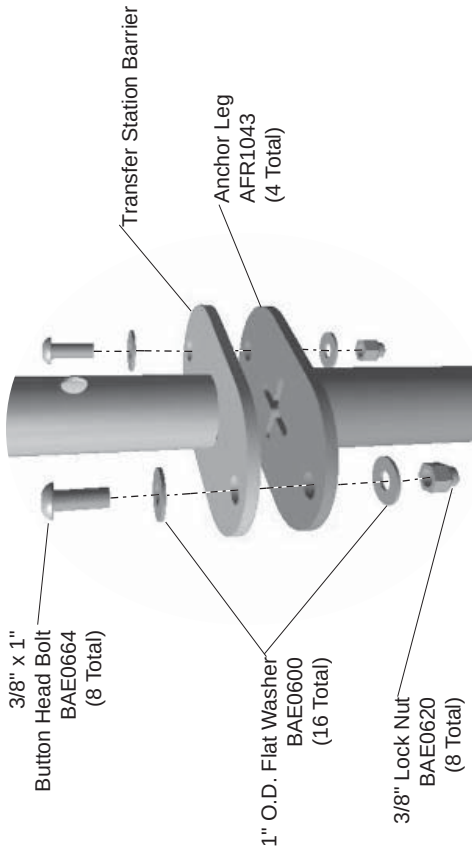


Elevation Views
PM0679S

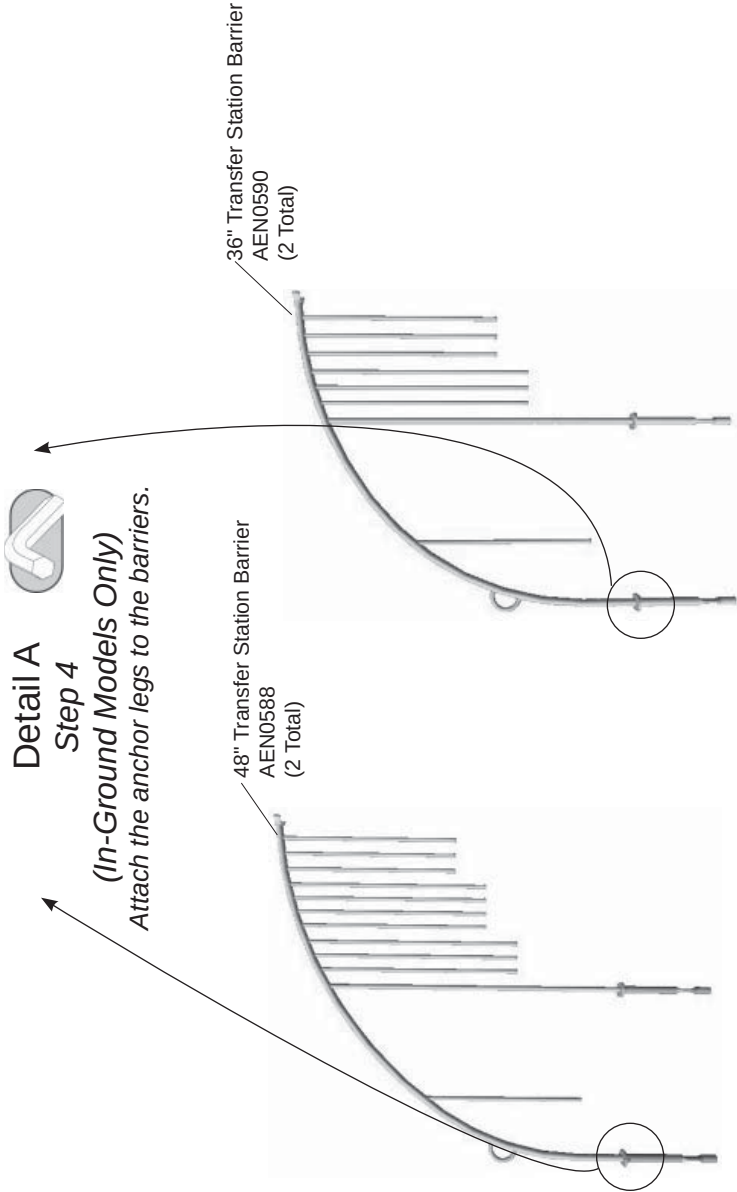


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4
(In-Ground Models Only)
Attach the anchor legs to the barriers.

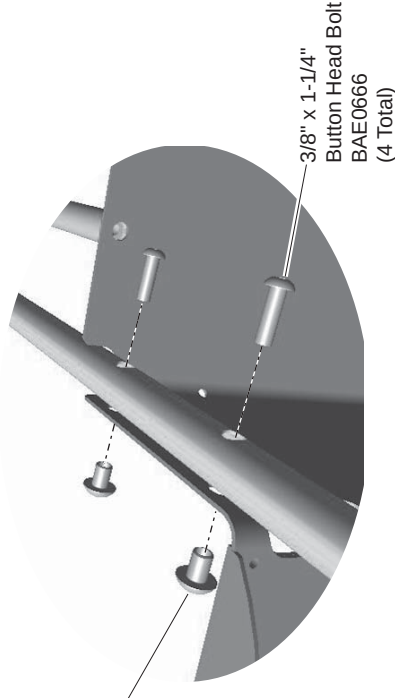


Installation Instructions

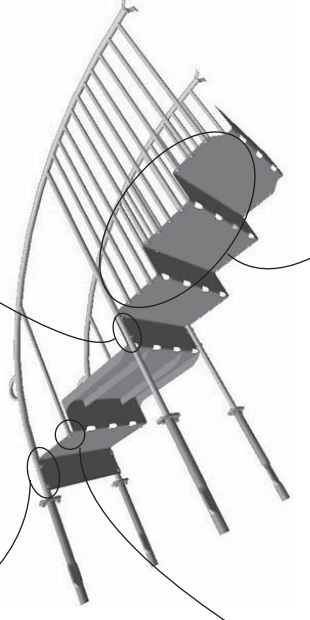
Transfer Station Barrier
BPM0226 (48)
BPM0228 (36")
(1 Total)

3/8" x 1-1/2"
Button Head Bolt
BAE06645
(4 Total)

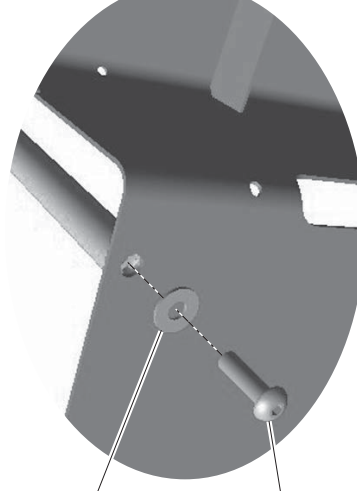
3/8" x 11/16" Button
Head Nut
BAE1672
(4 Total)



Detail B-3
*Attach the barriers to the second
step riser.*



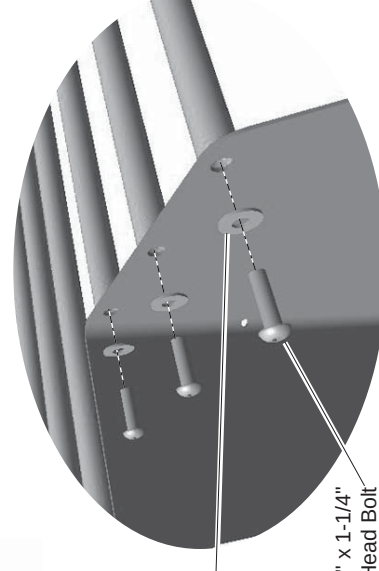
Detail B-1
*Attach the barriers to the first step
bottom riser.*



1" O.D. Flat Washer
BAE0600
(2 Total)

3/8" x 1-1/4"
Button Head Bolt
BAE0666
(2 Total)

Detail B-2
*Attach the barriers to the top of
the first step.*



1" O.D. Flat Washer
BAE0600
(48" Stair - 20 Total)
(36" Stair - 12 Total)

3/8" x 1-1/4"
Button Head Bolt
BAE0666
(48" Stair - 20 Total)
(36" Stair - 12 Total)

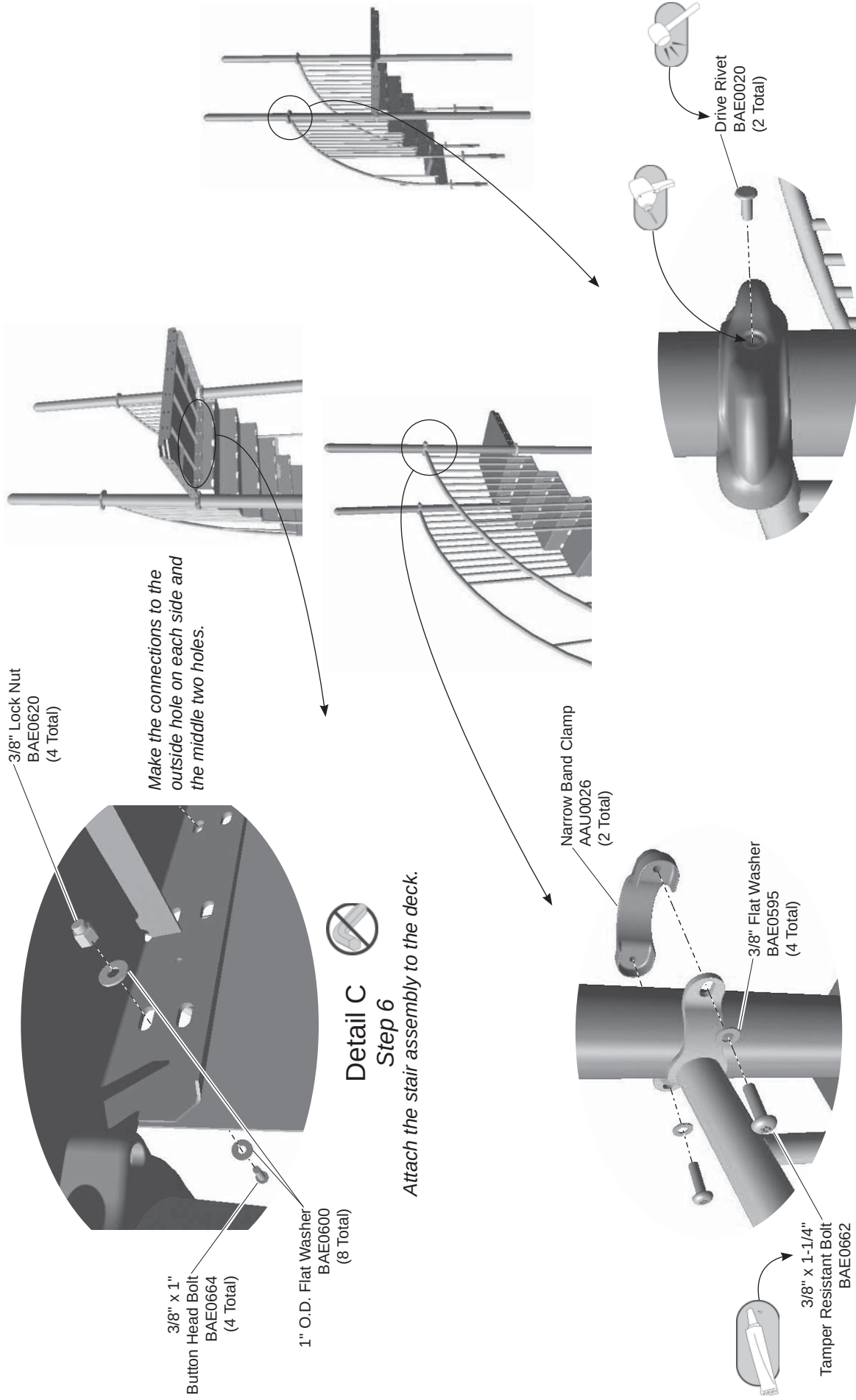
Detail B-4
*Attach the barriers to the top of
the third, fourth and fifth steps.*



Details B-1, B-2, B-3 & B-4
Step 5

Attach the barriers to the transfer station stair.

Installation Instructions



Detail C
Step 6
Attach the stair assembly to the deck.



Detail D
Step 7
Attach the barrier to the support posts.

Detail E
Step 9
Secure the clamps to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Component Footing Details (In-Ground Models) and Surface Mount Footing Detail** shown in the *Guidelines* at the beginning of this instruction booklet.

Step 4: (In-Ground Models only) Attach the anchor legs to the barriers. See **Detail A**. Position an anchor leg against the bottom of each barrier leg and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the barriers to the transfer station stair. See **Details B-1, B-2, B-3 and B-4**. Lay the transfer station stair on its side and attach the first barrier. Starting at the bottom of the stair, attach the barrier to the first step bottom riser. Then attach the barrier to the top of the first step. Attach the barrier to the second step riser as shown. And finally, attach the barrier to the top of the third, fourth and fifth steps. Turn the stair over and attach the second barrier in the same manner.

Step 6: Attach the stair assembly to the deck. See **Detail C**. With adequate manpower, place the stair assembly in, or on, it's footing and against the deck. The step riser must be flush against and level with the deck. Align the holes and attach as shown. Make the connections to the outside hole on each side and the middle two holes.

Step 7: Attach the barrier to the support posts. See **Detail D**. Place each band clamp around a post and against a barrier, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM0678 - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2	AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0588	BARRIER - 48" NUVO TRANSFER STATION (PM)	2	AEN0590	BARRIER - 36" NUVO TRANSFER STATION (PM)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4	AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4	BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	46	BAE0600	WASHER - 1" O.D. FLAT	38
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0226	FAB METAL - 83.35" x 48.67" x 47.61"	1	BPM0228	FAB METAL - 68.61" x 48.67" x 34.61"	1

PM0678S - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0588	BARRIER - 48" NUVO TRANSFER STATION (PM)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	30
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0226	FAB METAL - 83.35" x 48.67" x 47.61"	1

PM0679S - NUVO™ TRANSFER STATION 36 in. (914 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0590	BARRIER - 36" NUVO TRANSFER STATION (PM)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0228	FAB METAL - 68.61" x 48.67" x 34.61"	1



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Installation Instructions Playmakers® Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24" -60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

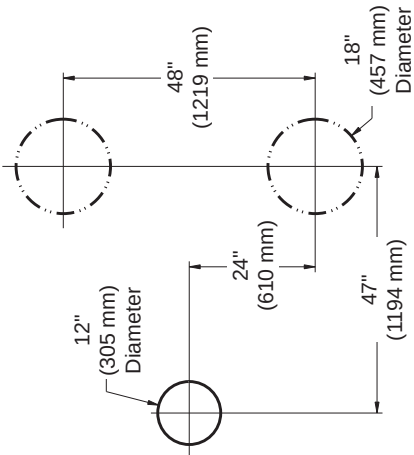


Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

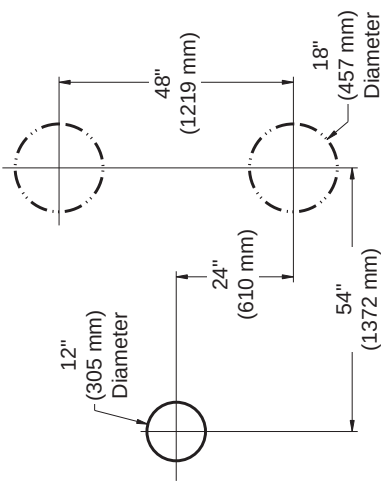
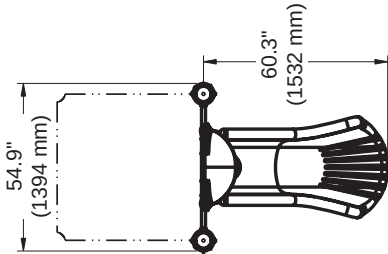
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

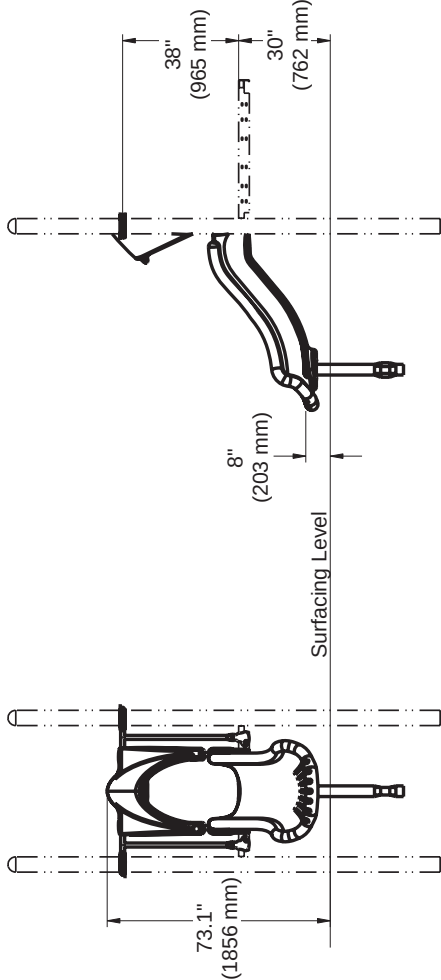
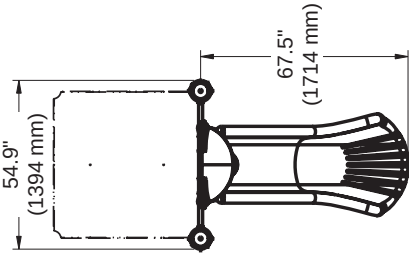


Footing Diagram

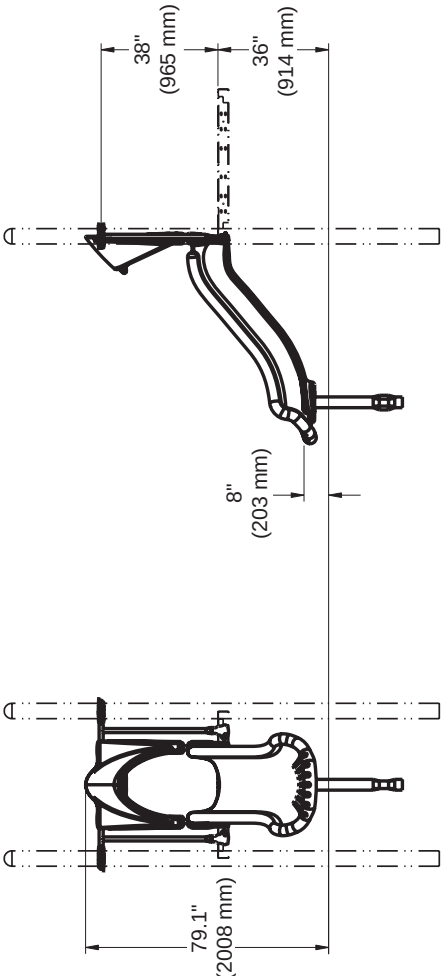
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram

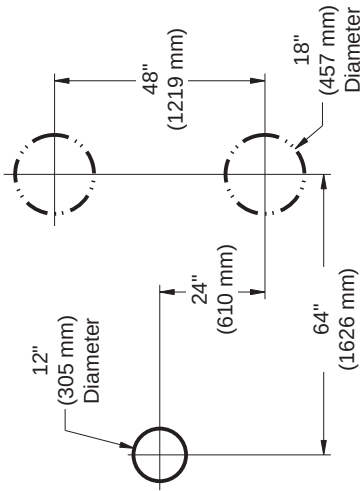


Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)

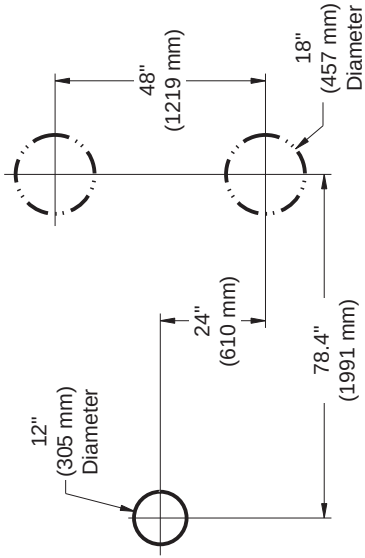


Elevation View PM3127 - 36" Glide Slide

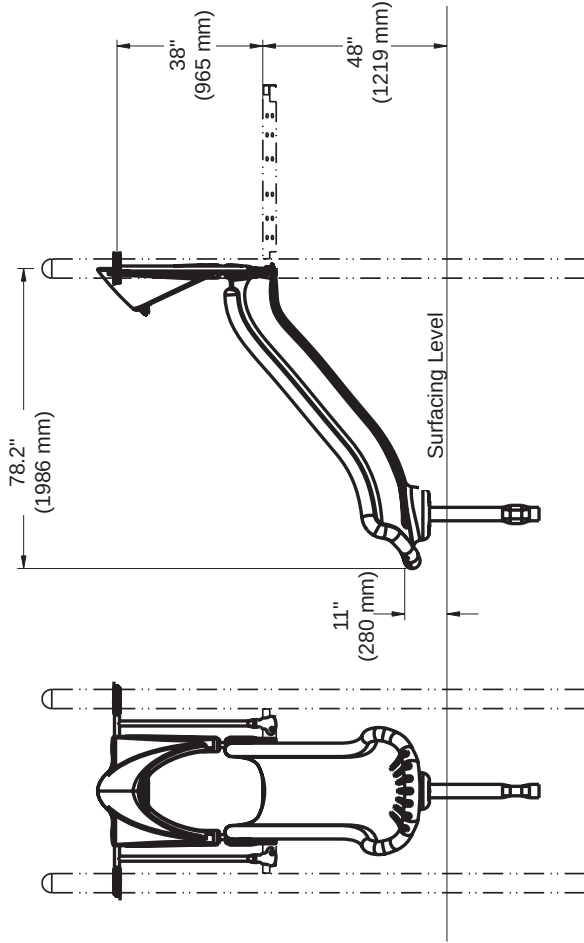
Installation Instructions



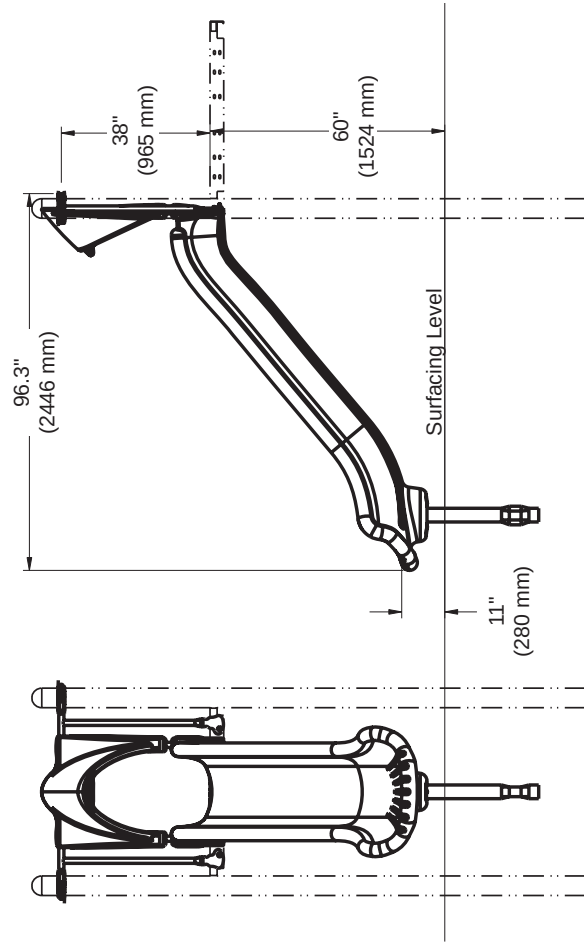
Footing Diagram



Footing Diagram

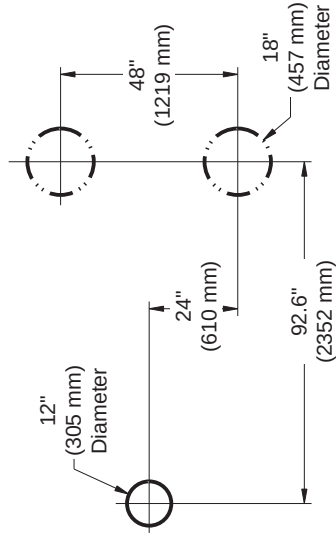


Elevation View PM3126 - 48" Slide

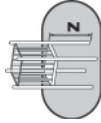


Elevation View PM2658 - 60" Slide

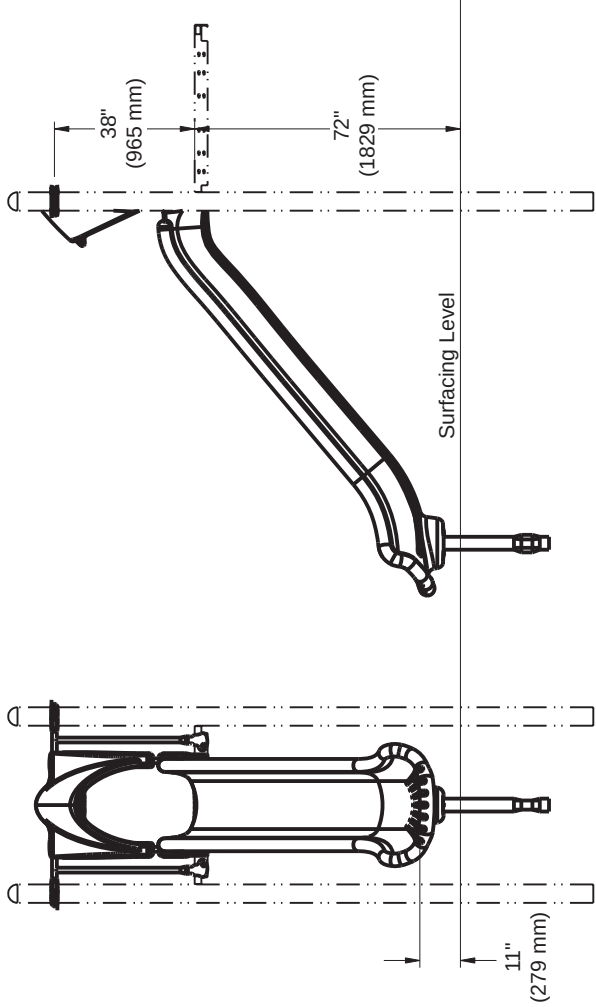
Installation Instructions



Footing Diagram



(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

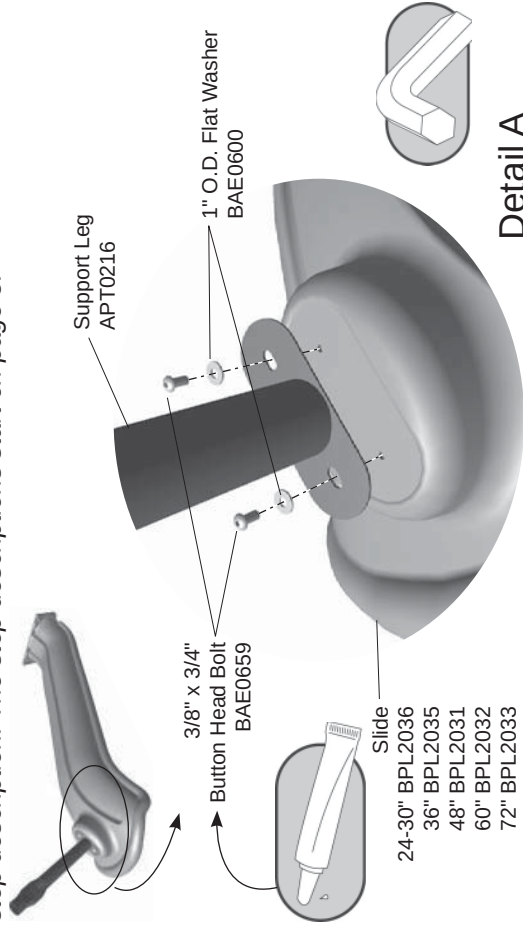


Elevation View PM2696 - 72" Glide Slide

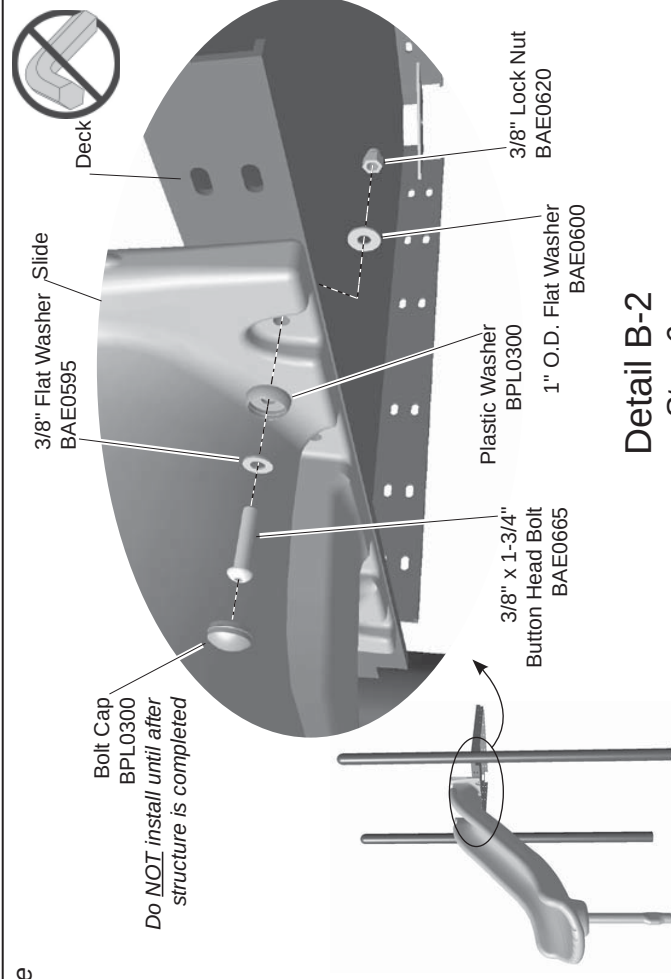


Installation Instructions

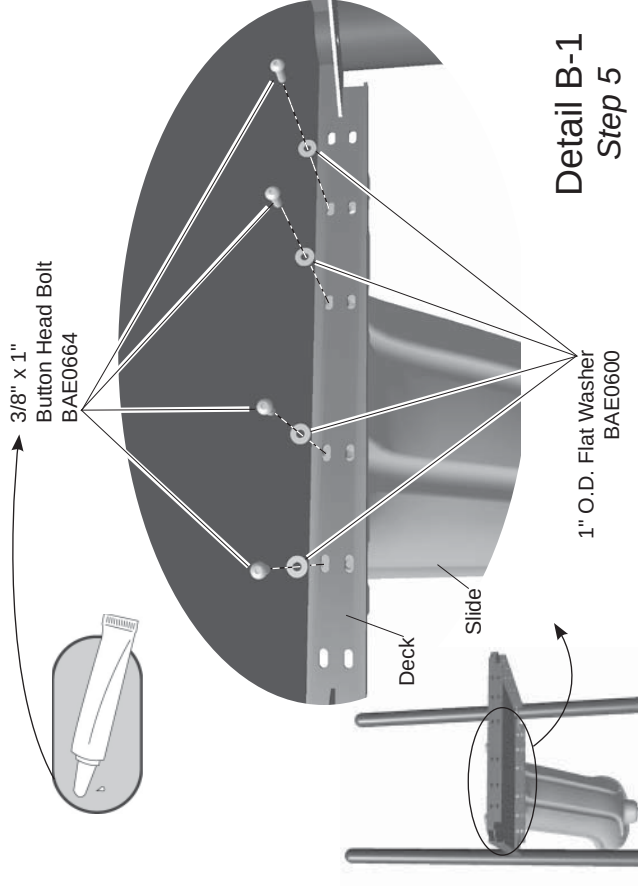
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



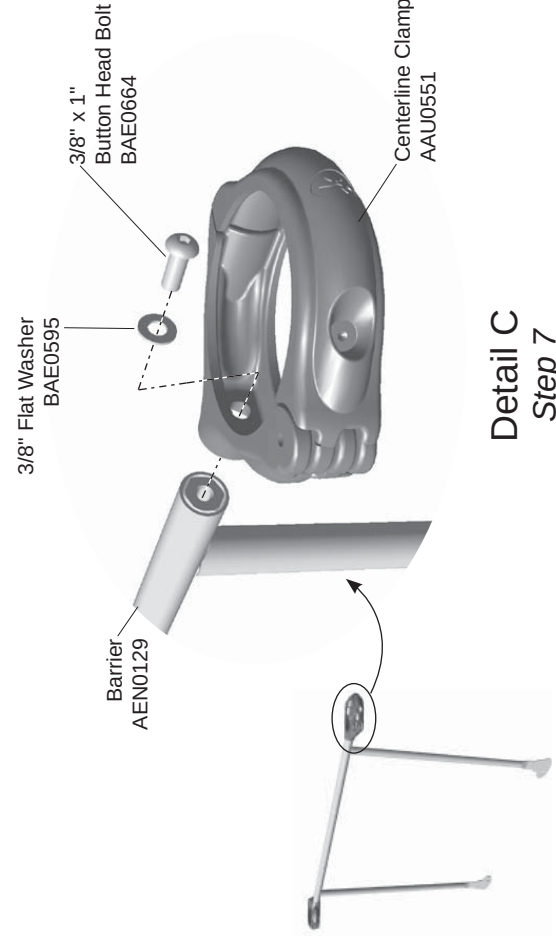
Detail A
Step 4



Detail B-2
Step 6

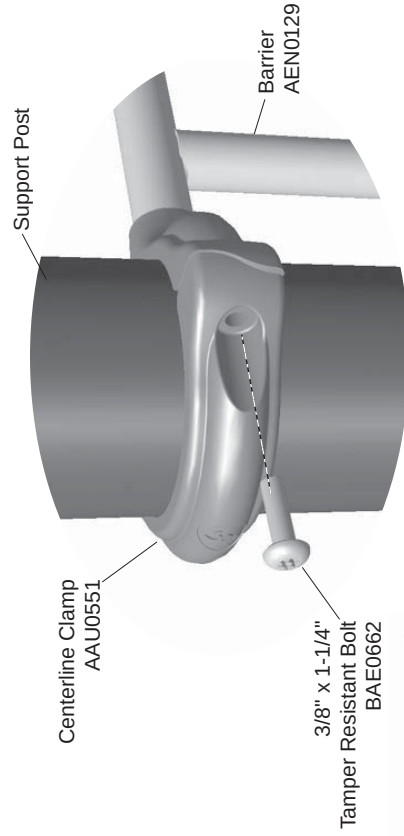


Detail B-1
Step 5

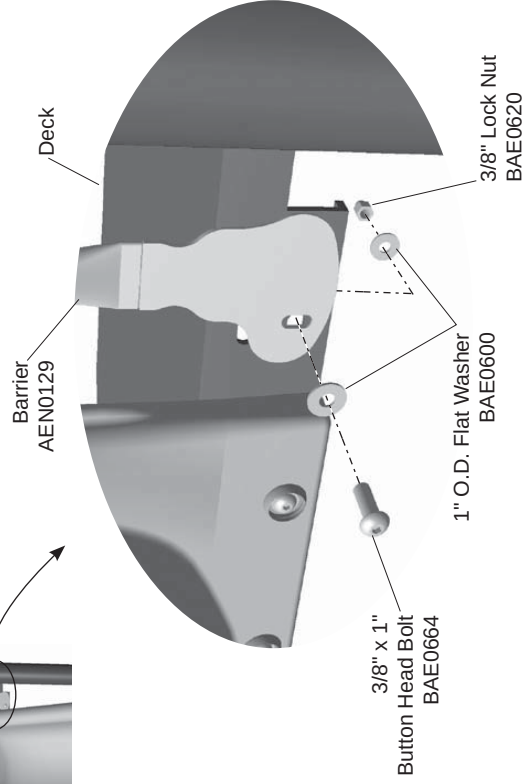
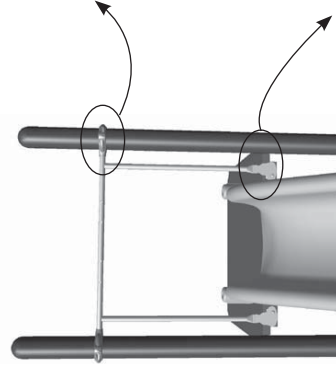


Detail C
Step 7

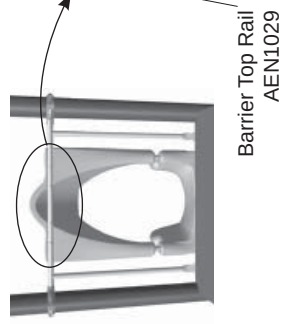
Installation Instructions



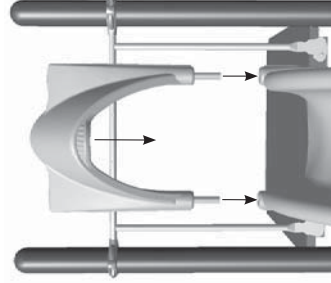
**Detail D-1
Step 8**



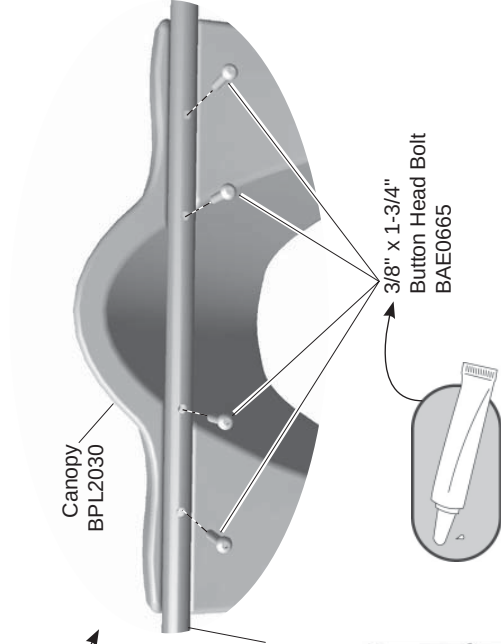
**Detail D-2
Step 9**



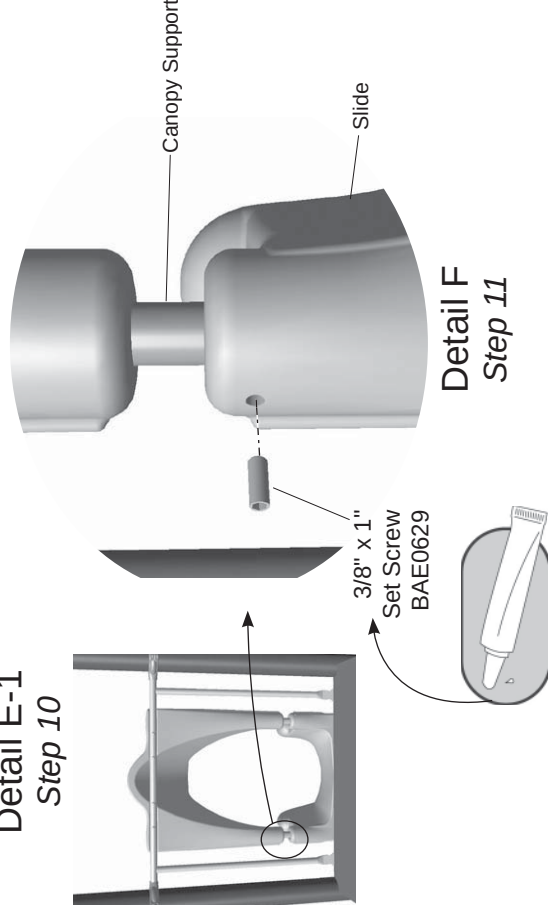
**Barrier Top Rail
AEN1029**



**Detail E-1
Step 10**

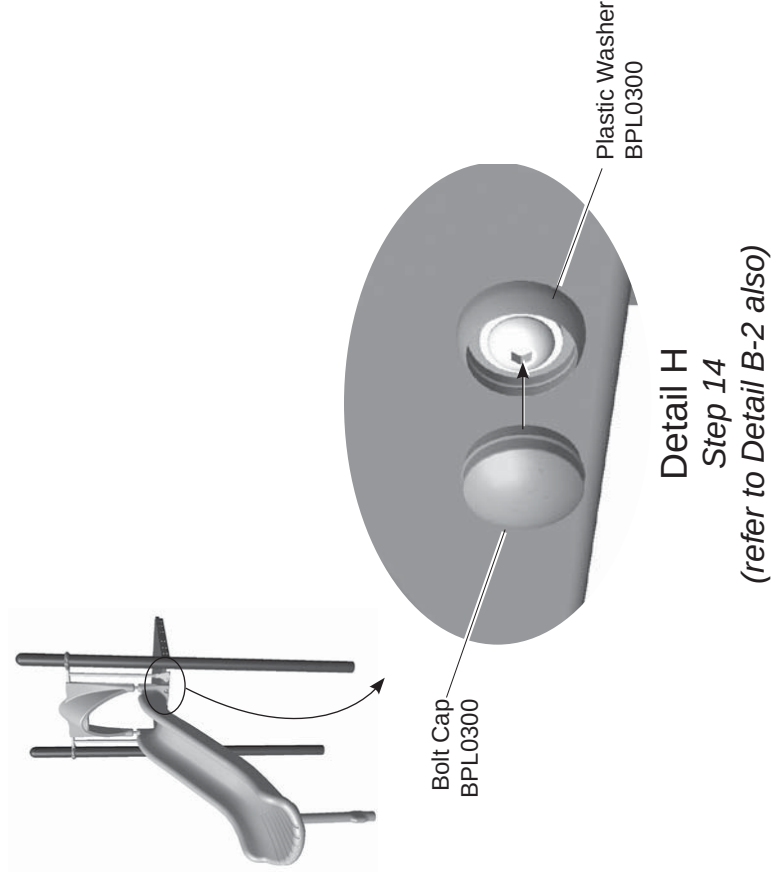


**Detail E-2
Step 10**

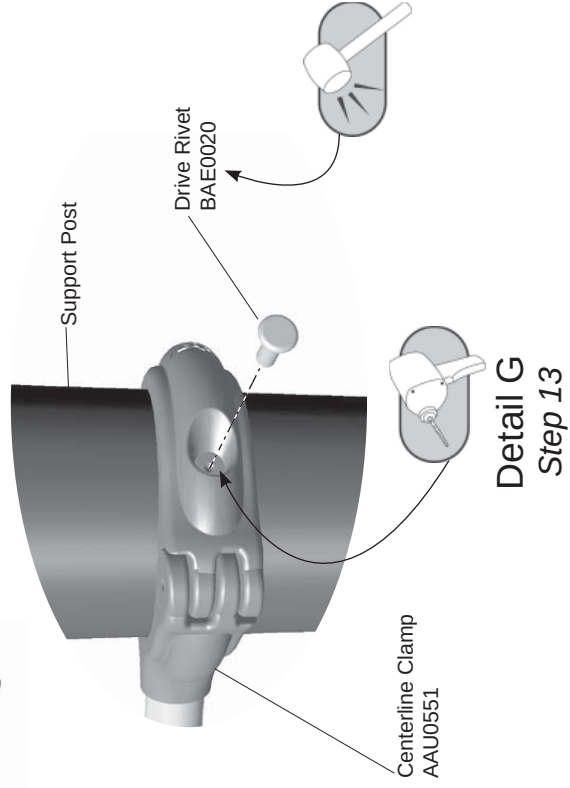
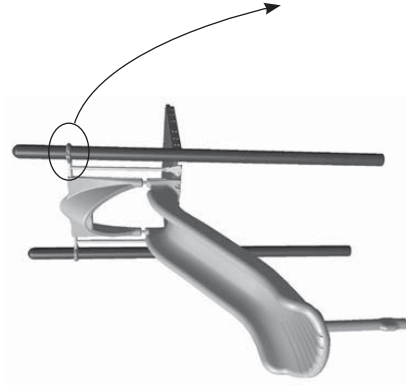


**Detail F
Step 11**

Installation Instructions



Step 12



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

___ **Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

___ **Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bed way should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

___ **Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

___ **Step 7:** Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

___ **Step 8:** Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

___ **Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

___ **Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

___ **Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

___ **Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___ **Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___ **Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___ **Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

Bill of Materials

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



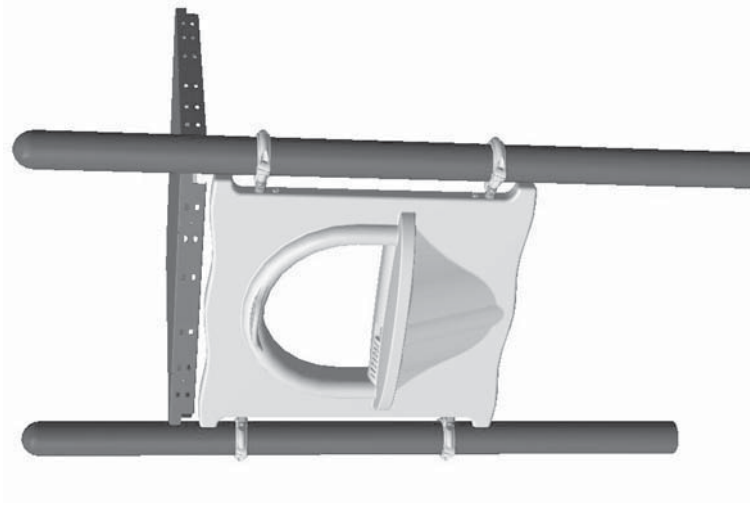
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Assembly View

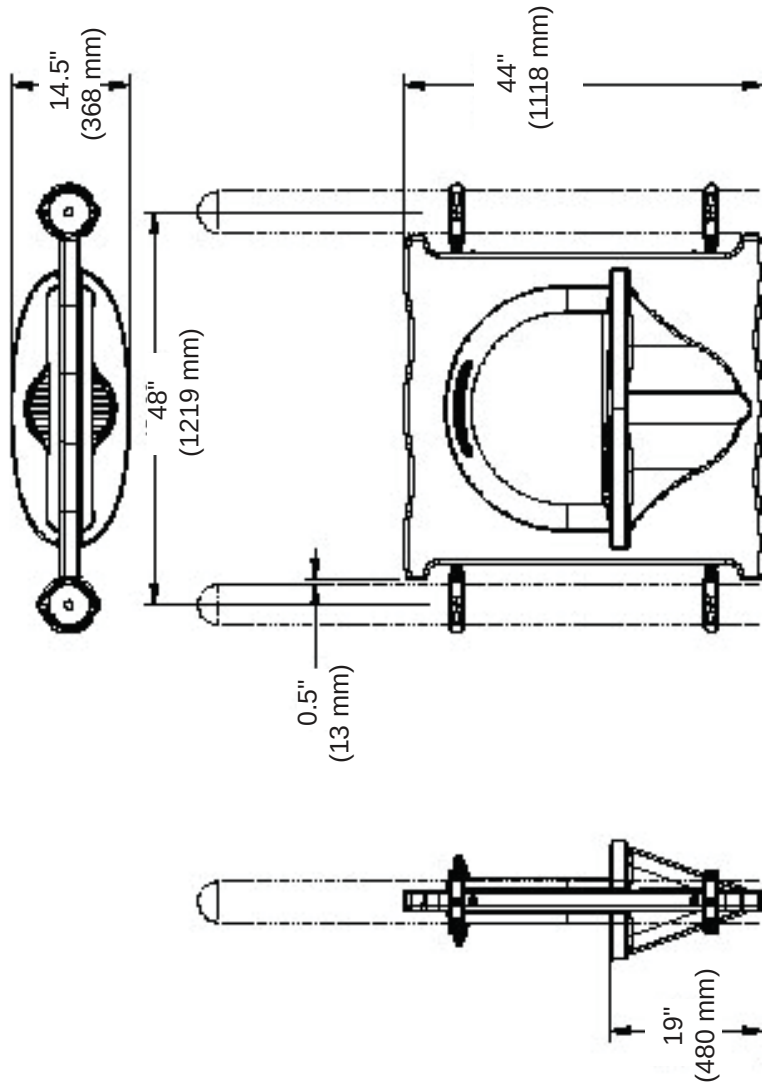
Installation Instructions Playmakers® Model PM4646 Storefront Panel

Installation Preparation

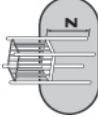
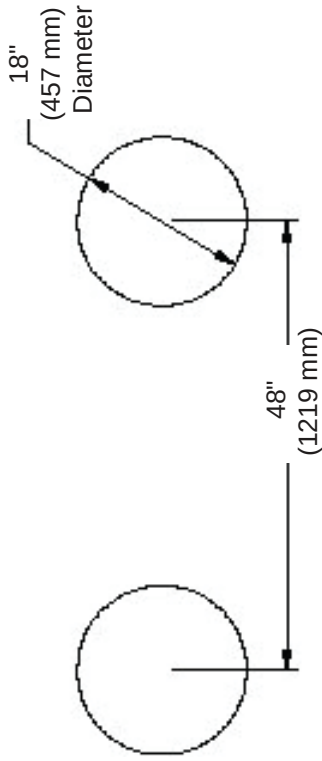
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 44.8 lbs. (20.2 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY		
	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware	Drill
	Hammer	Critical Fall Height

Top View



Footing Diagram

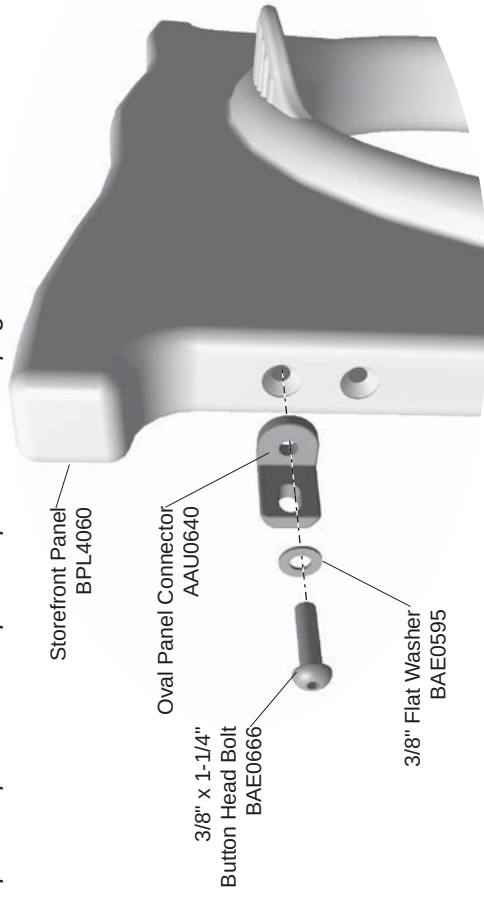


EN: 480 mm

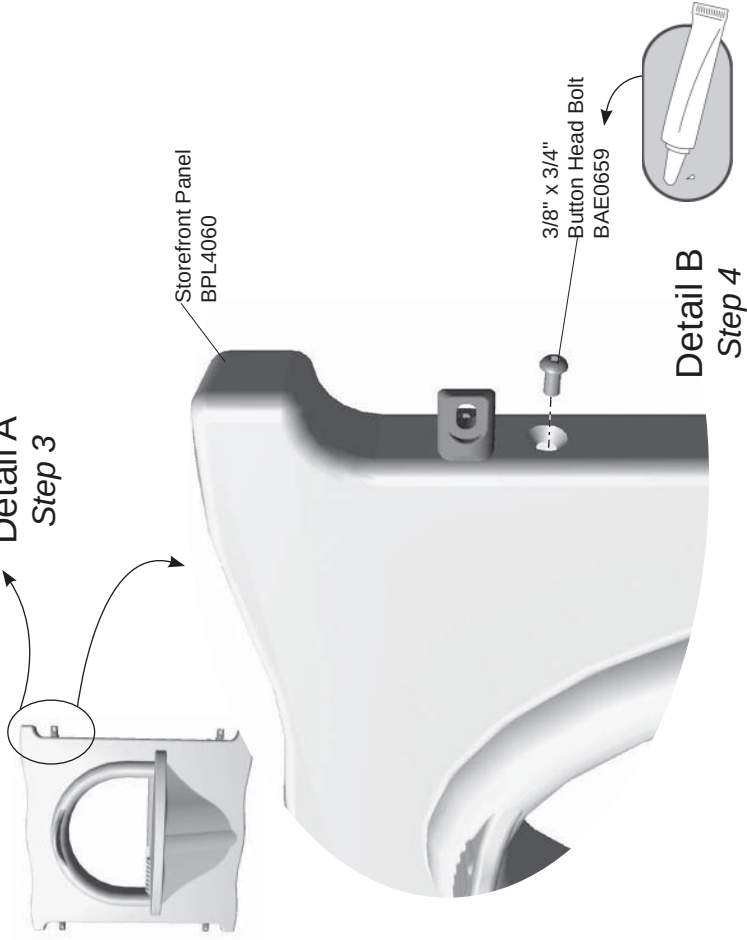
Elevation Views

Installation Instructions

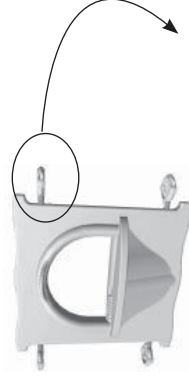
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3



Detail B
Step 4



Storefront Panel
BPL4060

Oval Panel Connector
AAU0640

Offset Centerline
Die Cast Clamp
AAU0620

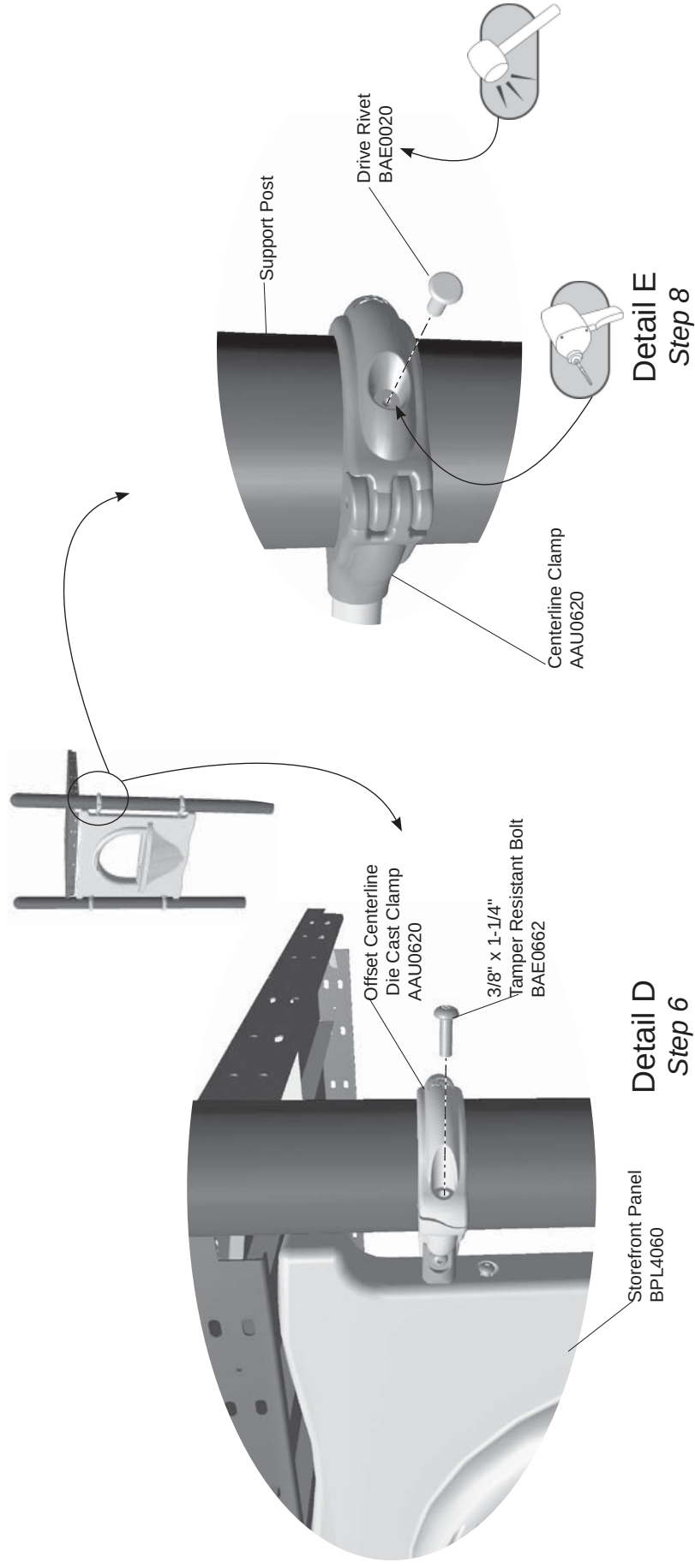
3/8" Flat Washer
BAE0595

3/8" x 1"
Button Head Bolt
BAE0664

Detail C
Step 5



Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

___ **Step 3:** Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

___ **Step 4:** Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

___ **Step 5:** Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

___ **Step 6:** Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

___ **Step 7:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

___ **Step 8:** Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1

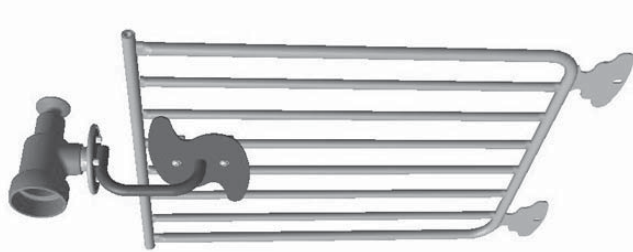
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Model PM4646
PA 768



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Assembly View (representative model)

Model	Description	Weight
ZZUN4279	Pipe Wall Mount (CH/EX)	12.2 lbs. (5.5 kg)
ZZUN4280	Pipe Wall Mount for (PM)	9.5 lbs. (4.3 kg)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)	13.2 lbs. (6 kg)
ZZUN4439	Pipe Wall Mount w/Lens (PM)	13.3 lbs. (6 kg)

Installation Instructions

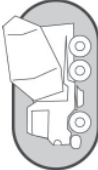
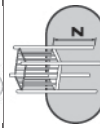
Universal Models UN4279, UN4280, UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) & Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: (refer to table)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

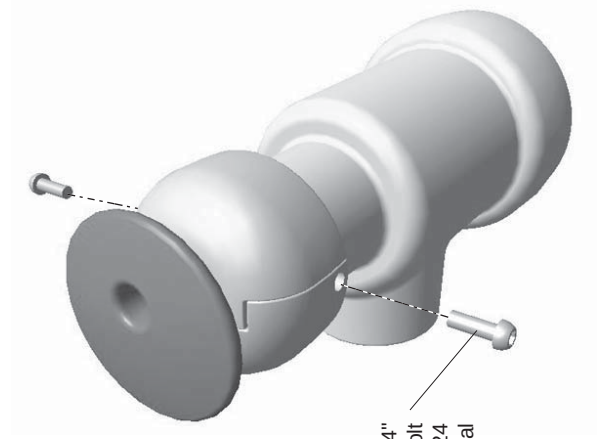
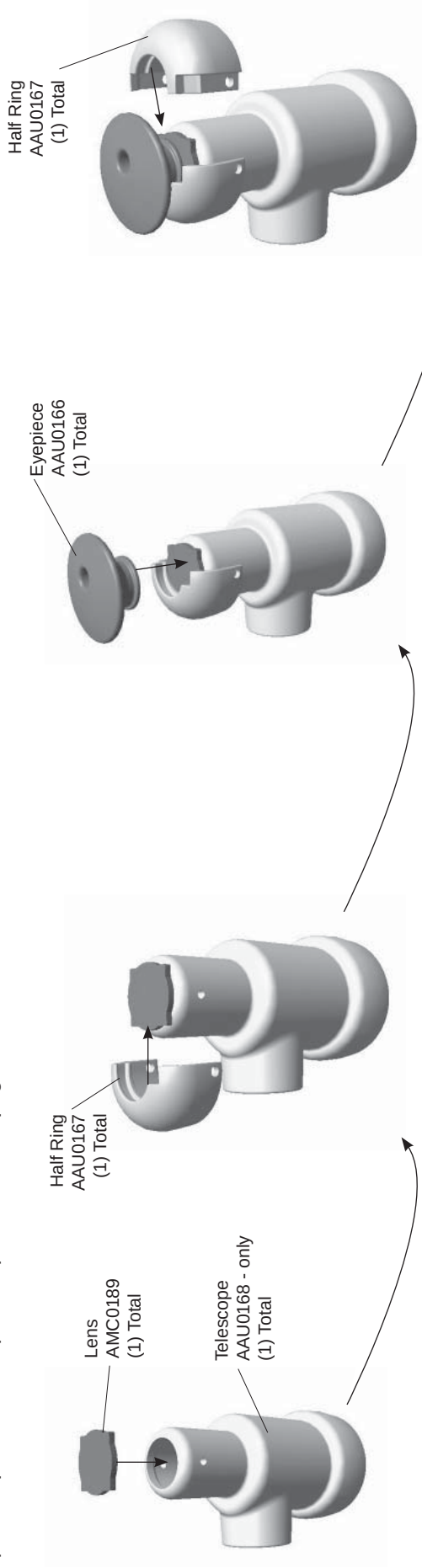
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



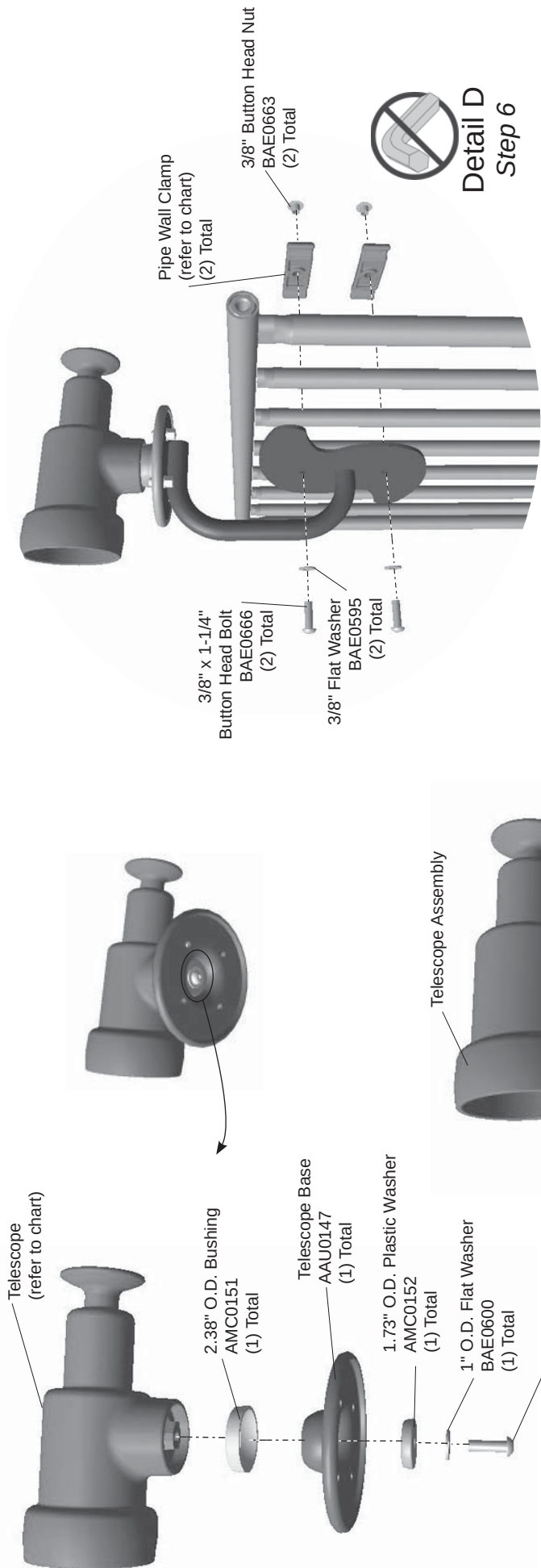
1/4" x 3/4"
Button Head Bolt
BAE01524
(2) Total



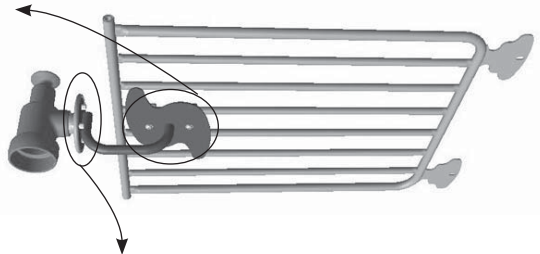
Detail A
Step 3

Note: Skip this page if the model being assembled is not a telescope with lens.

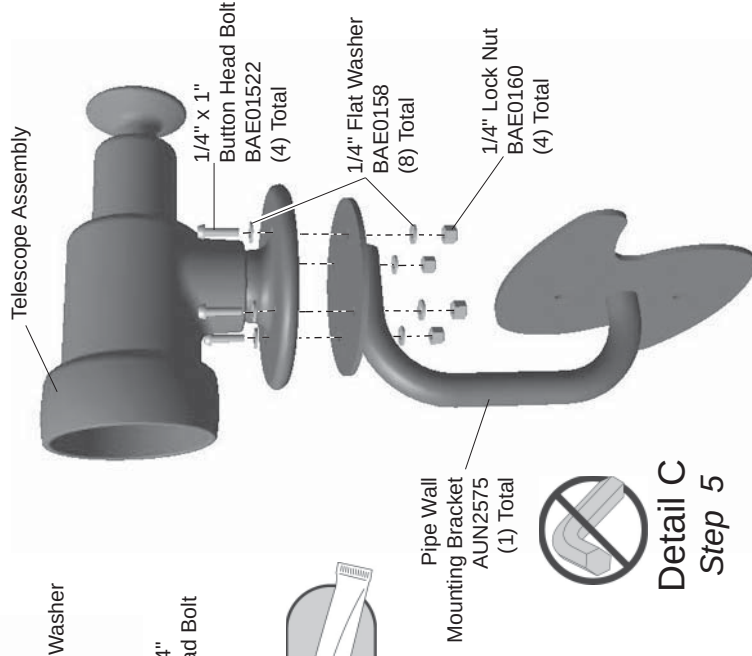
Installation Instructions



Detail B
Step 4



Detail C
Step 5



Detail D
Step 6



Model	Telescope Part #	Clamp Part #
ZZUN4279	AAU0146	AAU0043
ZZUN4280	AAU0146	AAU0380
ZZUN4438	AAU0168	AAU0043
ZZUN4439	AAU0168	AAU0380



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the telescope.

Note: *Skip this step if the model being assembled is not a telescope with a lens.*

Step 3: See Detail A. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections. The eyepiece should turn easily within the assembly.

Attach the telescope to the base.

Step 4: See Detail B. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connection.

Attach the telescope to the mounting bracket.

Step 5: See **Detail C.** Attach as shown.

Attach the bracket to the pipe wall barrier.

Step 6: See **Detail D.** Position the bracket on the proper side of the pipe wall barrier looking out from the structure. The telescope should extend above the pipe wall barrier with the eyepiece toward the deck. Attach as shown.

Final Details.

Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Bill of Materials

UN4279 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

UN4280 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4



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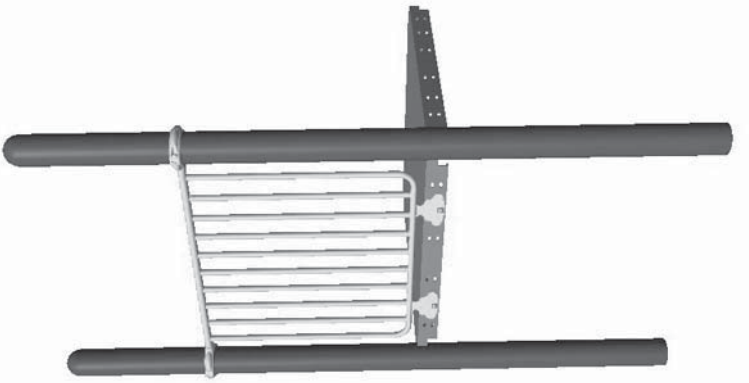
UN4438 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2

UN4439 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2



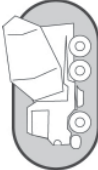
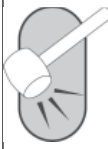
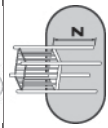


Assembly View

Installation Instructions Playmakers® Model PM4090 Centerline Pipe Wall Barrier

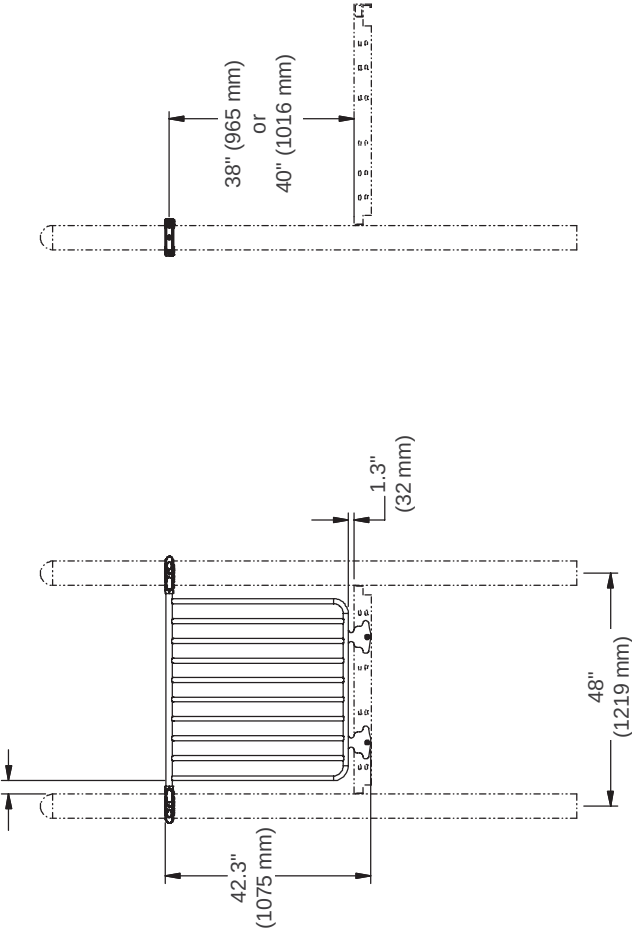
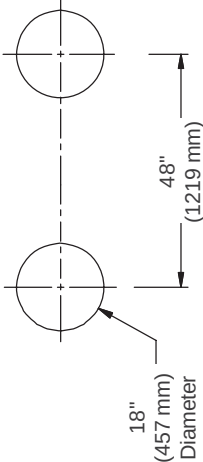
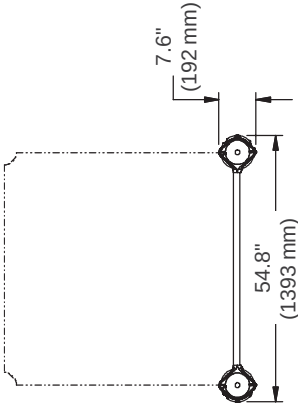
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 installation-hours
 Weight: 43 lbs. (19,4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

Top View

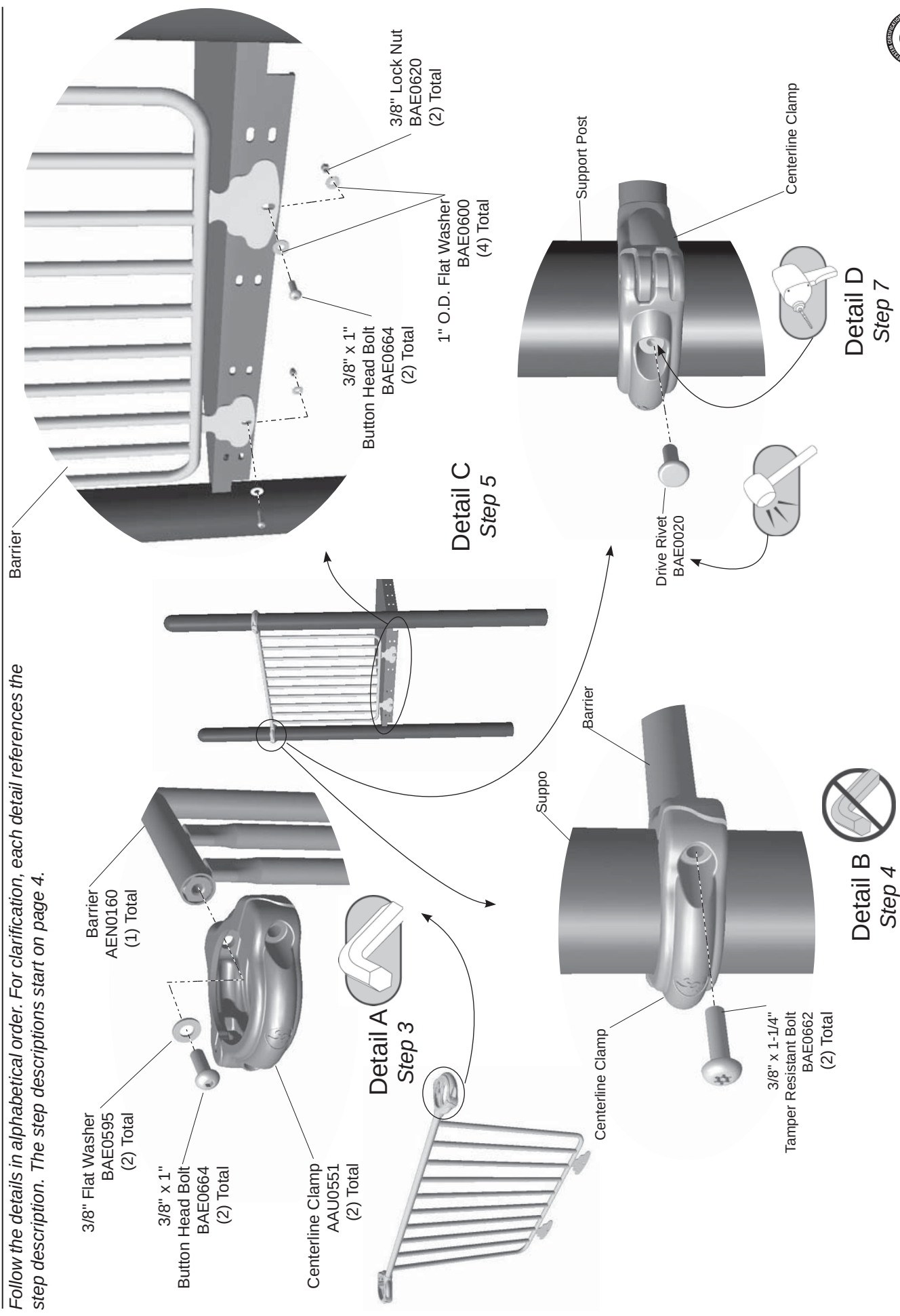


Footprint Diagram

Elevation View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach a shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

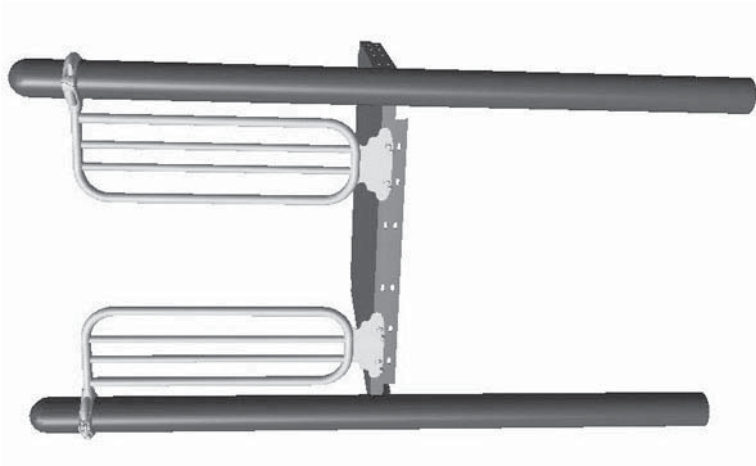
Bill of Materials

PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2

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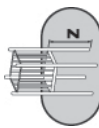


Assembly View

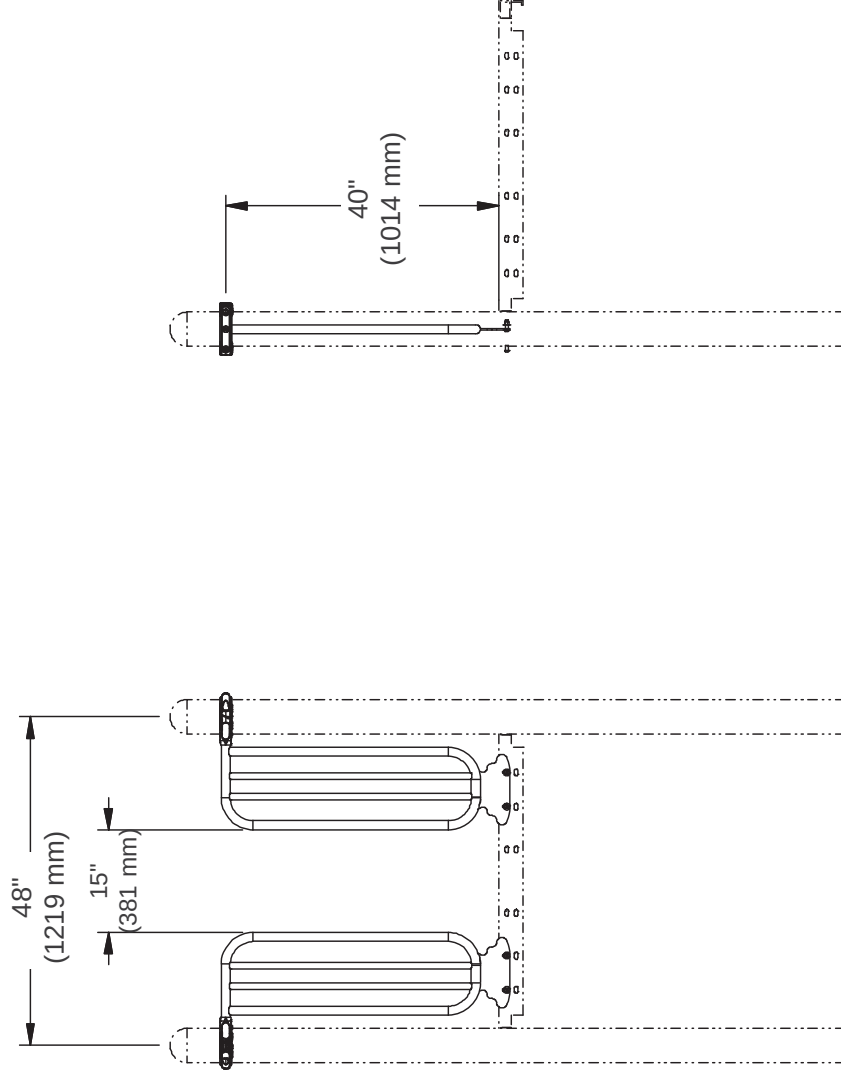
Installation Instructions Playmakers® Model PM4288 Compliance Access Gate

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Weight: 34 lbs. (15,4 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <u>Not</u> Fully Tighten Hardware		Critical Fall Height
	Drill		Hammer

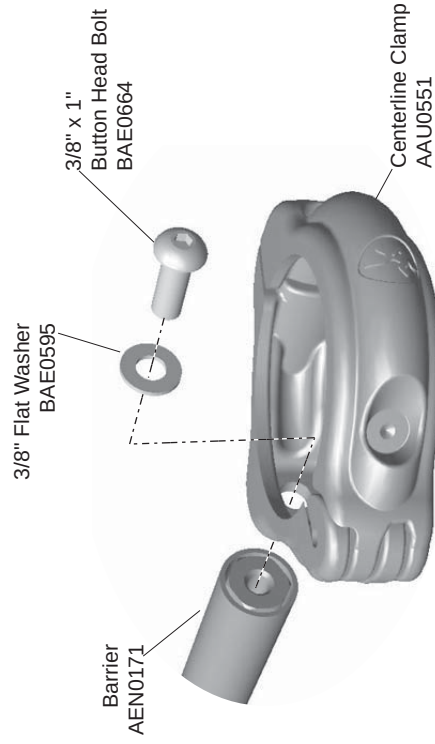
Installation Instructions



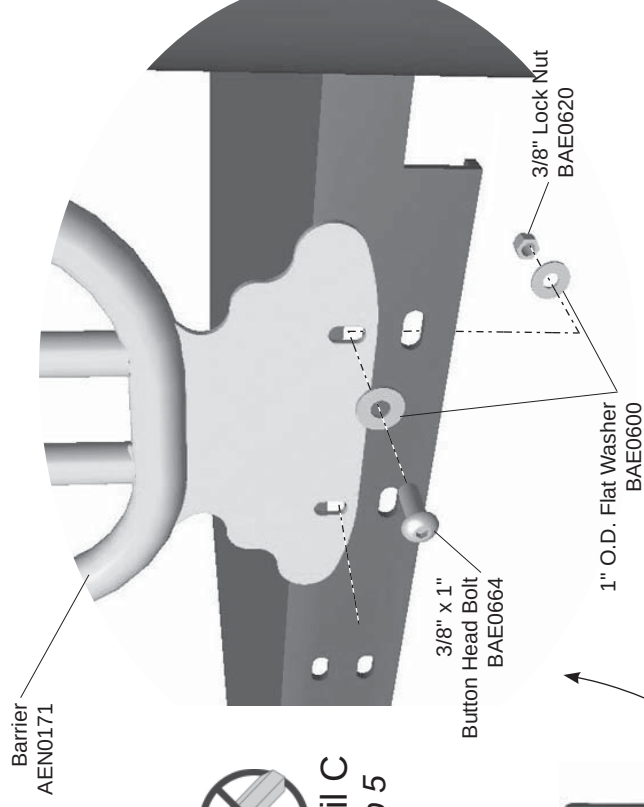
Elevation View

Installation Instructions

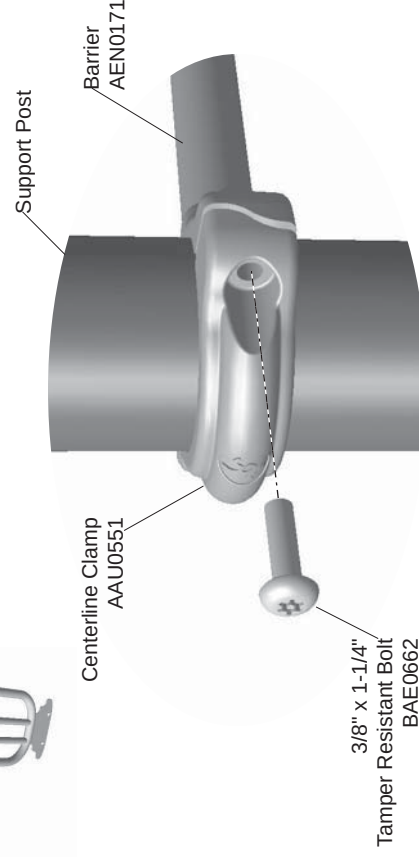
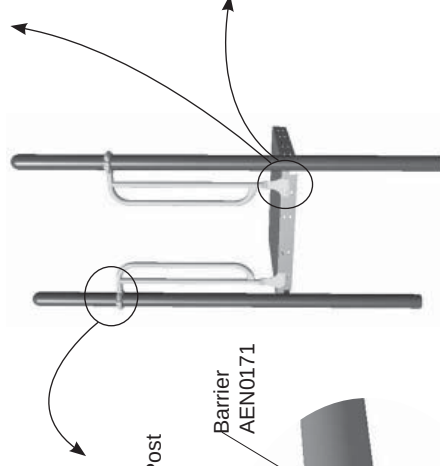
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



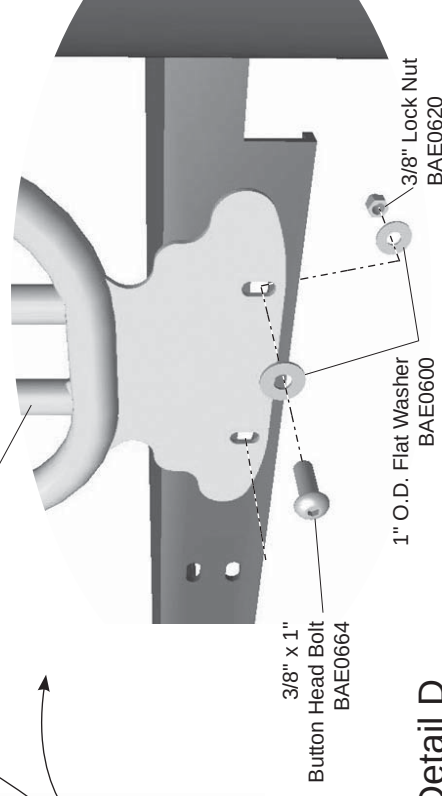
Detail A
Step 3



Detail C
Step 5

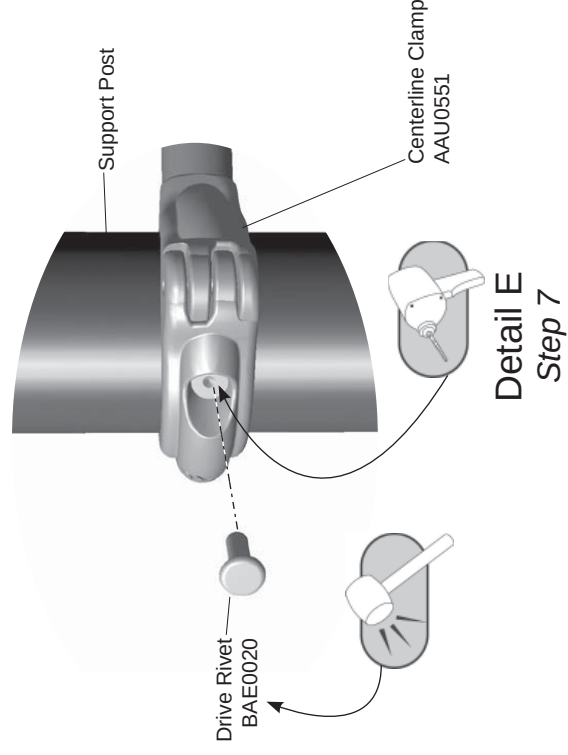


Detail B
Step 4



Detail D
Step 5

Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6

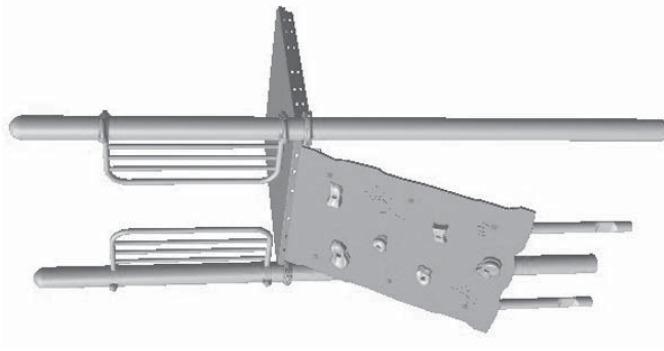
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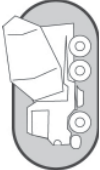
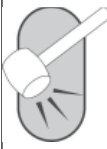
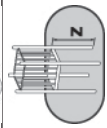
Installation Instructions Playmakers® Models PM6979 & PM6986-PM6989 Inclined Cliff Hanger 48" (1219 mm), 60" (1524 mm), 72" (1829 mm), 84" (2134 mm) & 96" (2438 mm) Deck Heights

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Concrete Required: 0.06 cubic yard (0.05 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

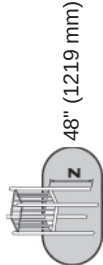
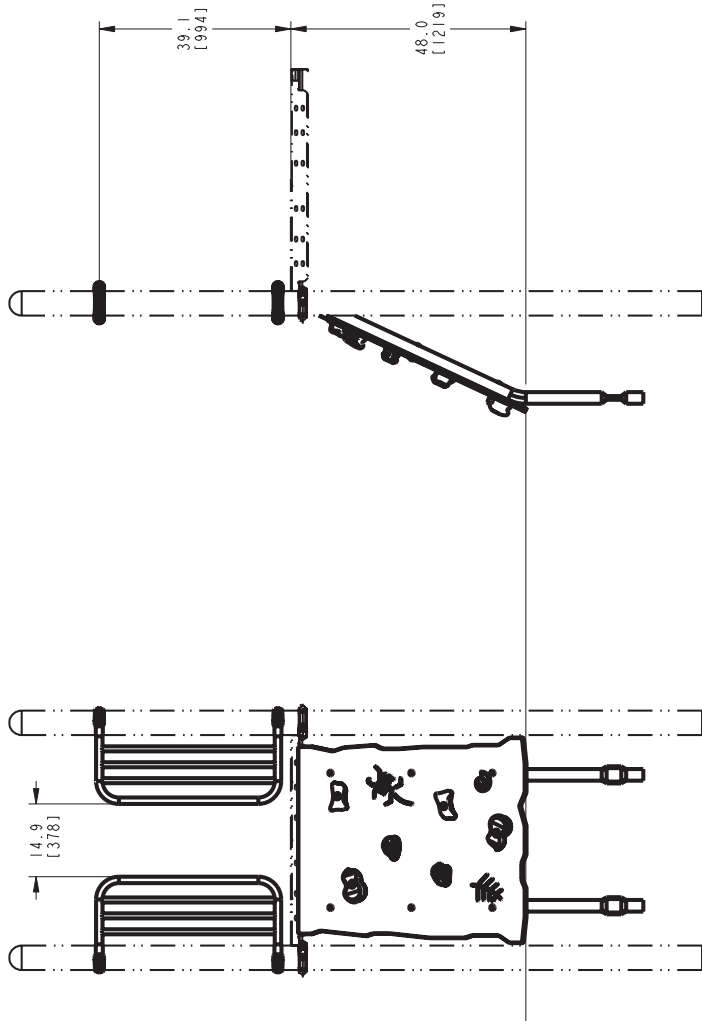
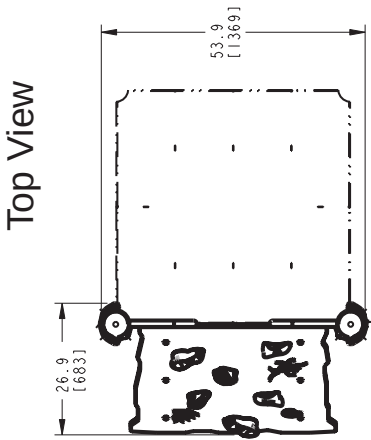
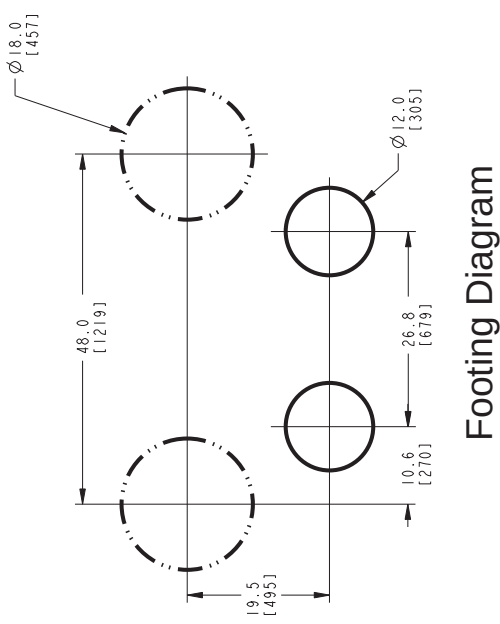


Assembly View (representative model)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



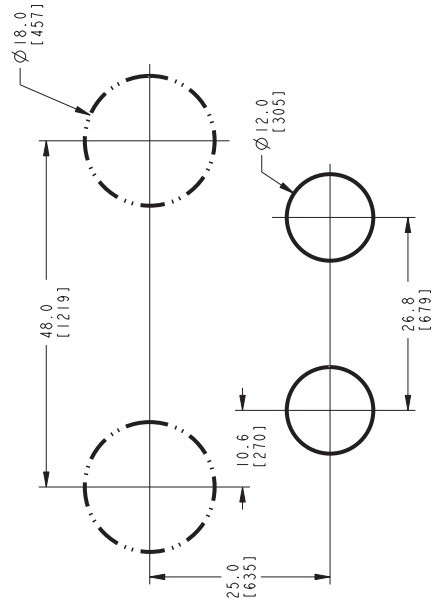
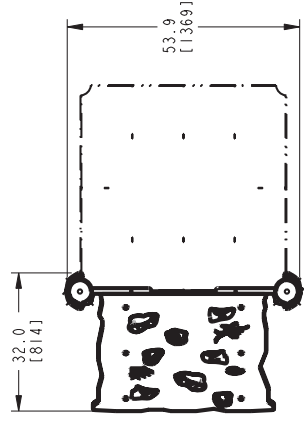
Elevation Views - PM6987 - 48" (1220 mm) Deck



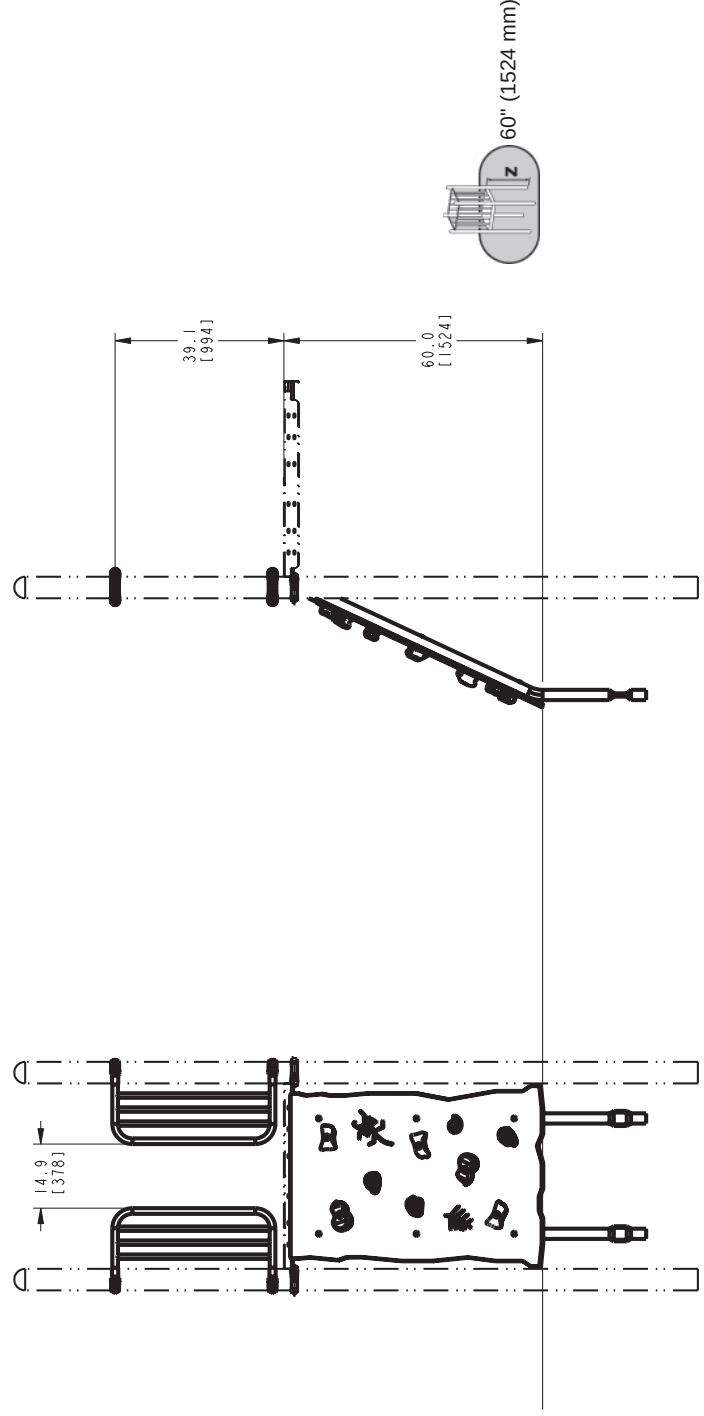
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



Footing Diagram

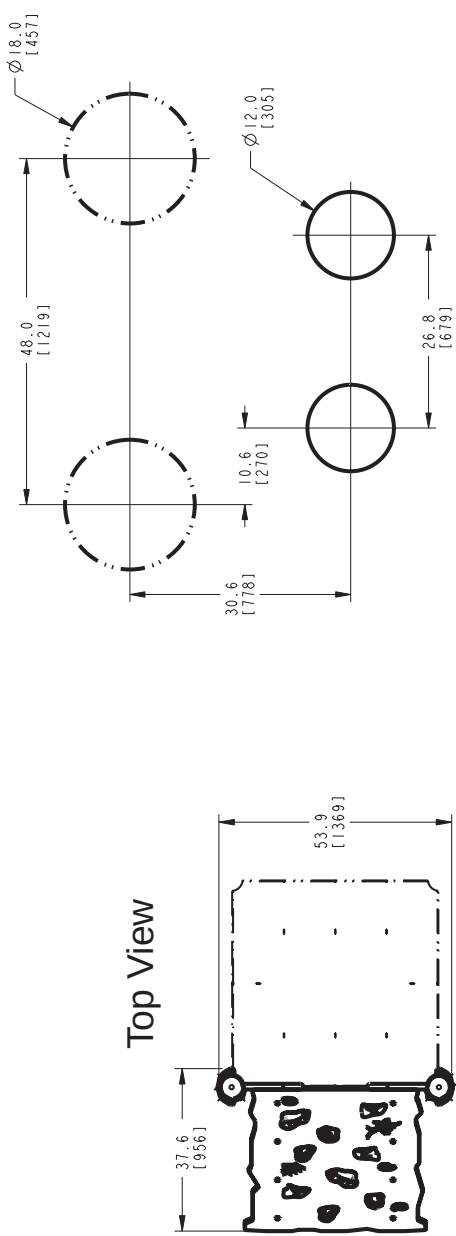


Elevation Views - PM6988 - 60" (1524 mm) Deck

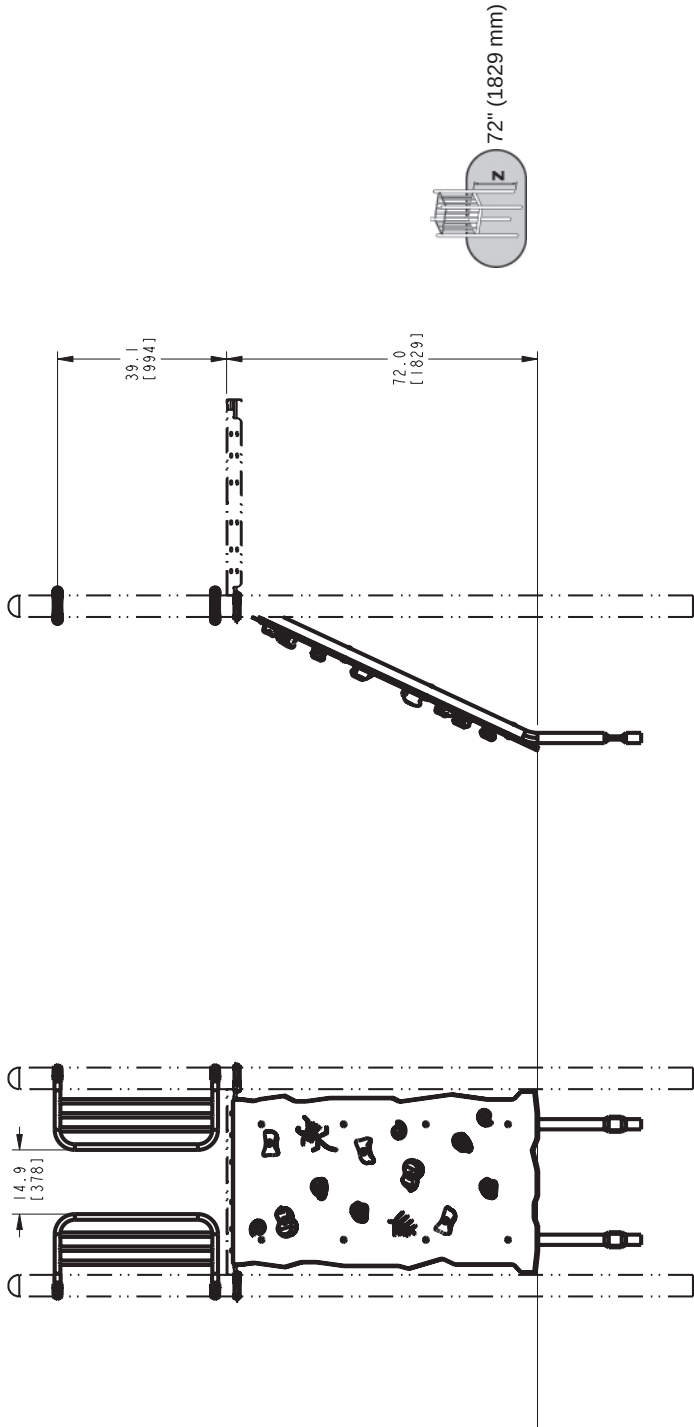


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



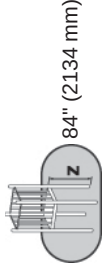
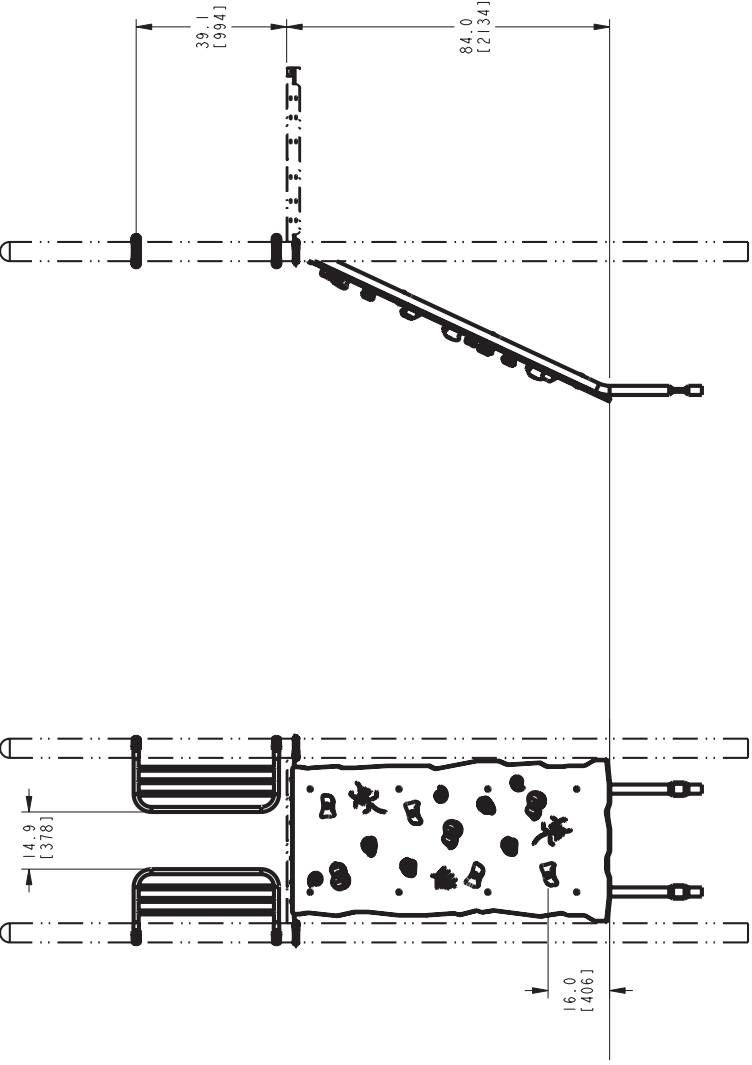
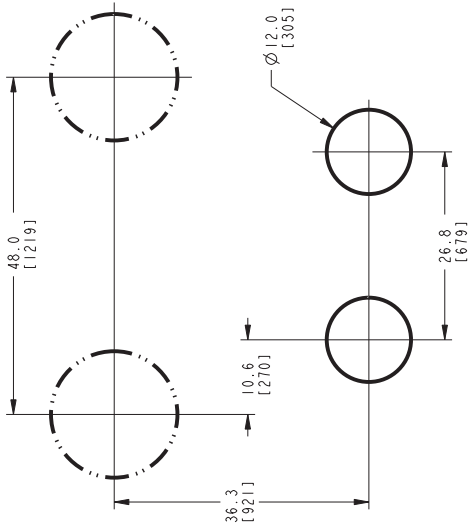
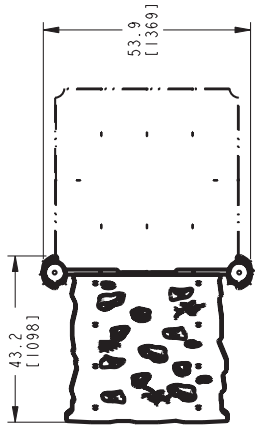
Elevation Views - PM6989 - 72" (1829 mm) Deck



Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



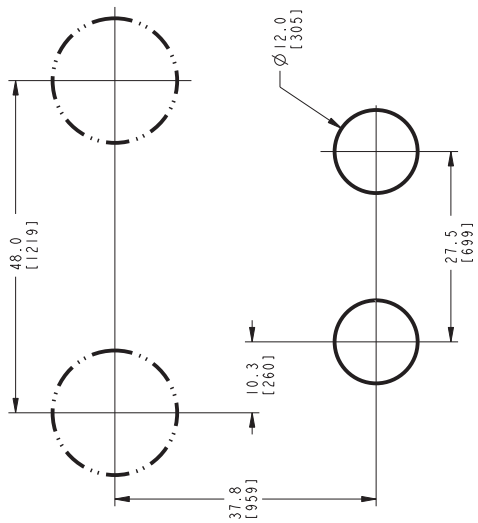
Footing Diagram

Elevation Views - PM6986 - 84" (2134 mm) Deck

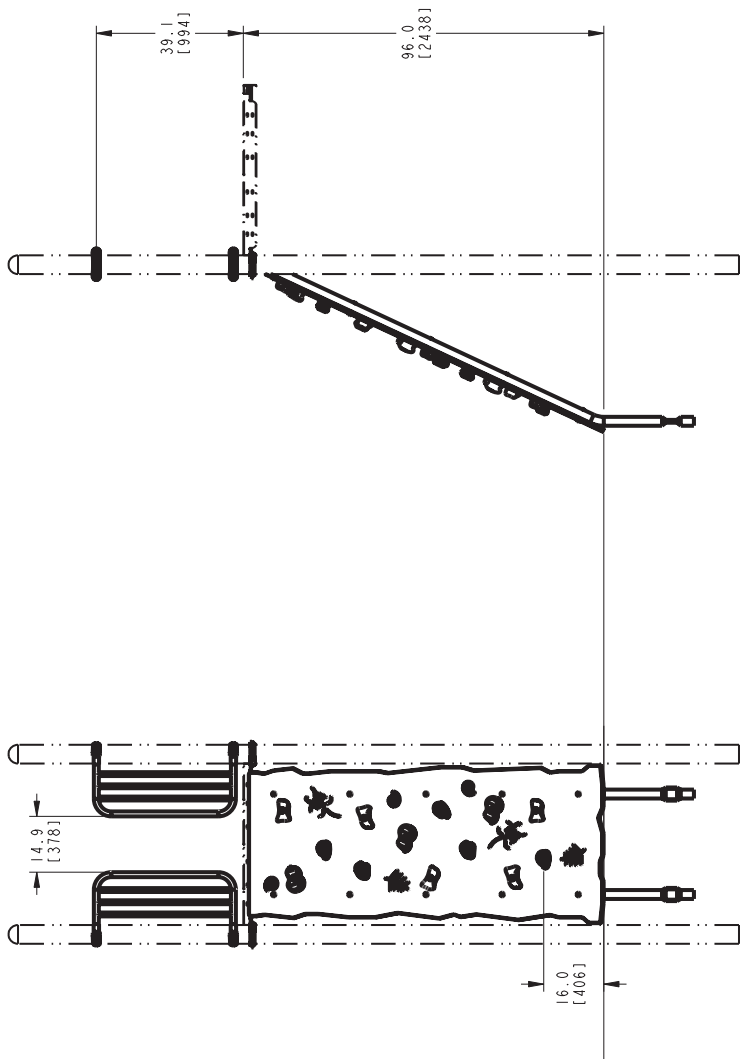
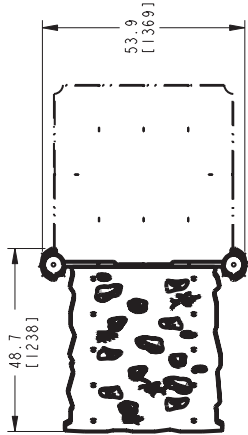


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Top View



Footing Diagram

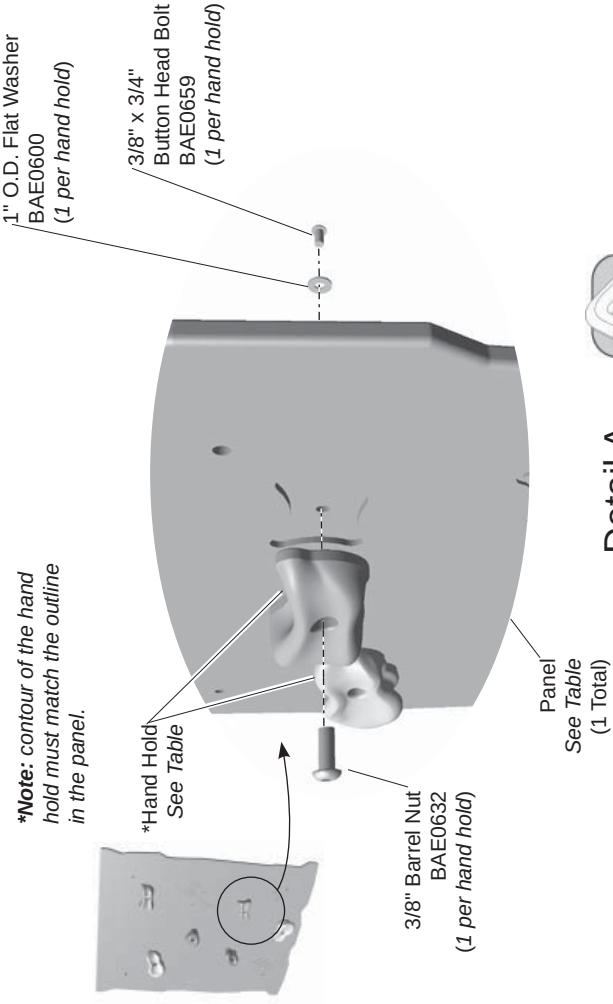


Elevation Views - PM6979 - 96" (2438 mm) Deck



Installation Instructions

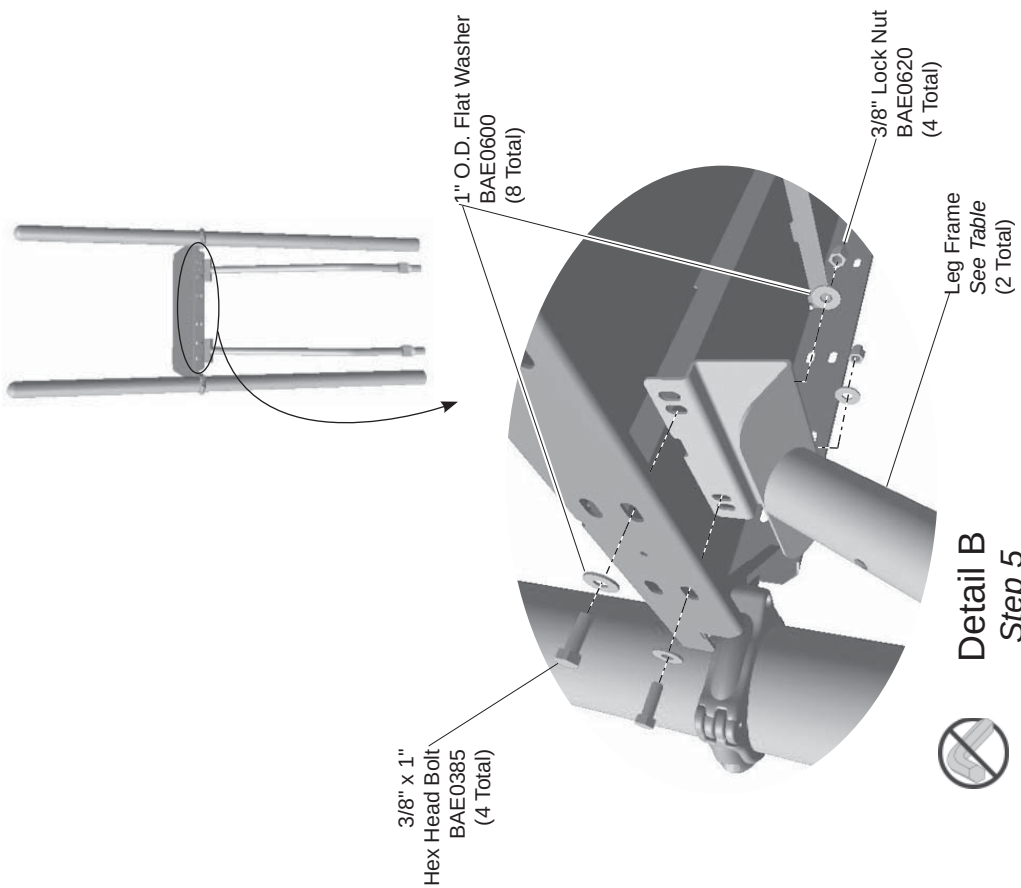
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A

Step 4

Attach the hand holds to the panel.



Detail B

Step 5

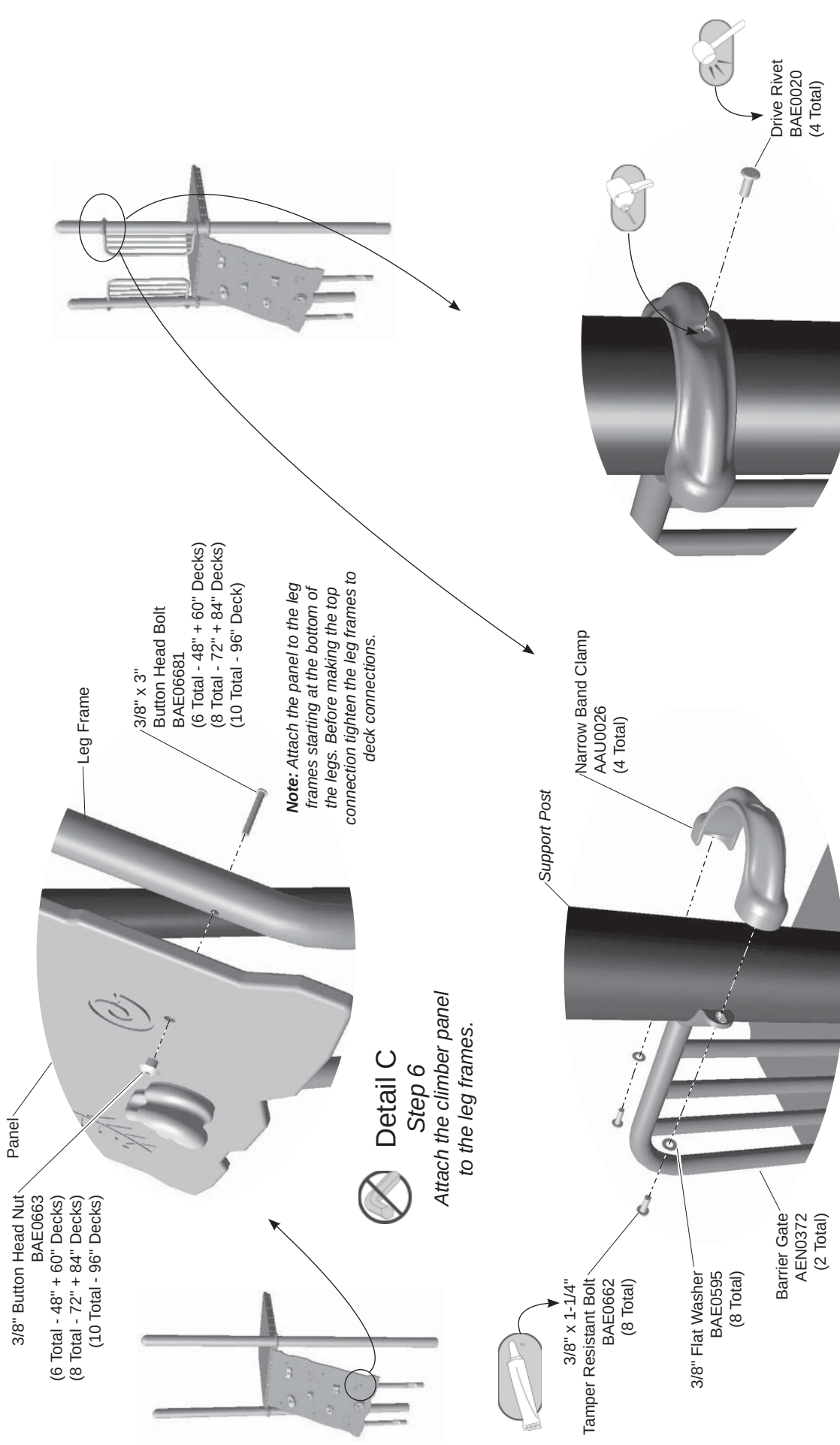
Attach the leg frames to the deck. Make the connections through the two middle holes in the leg bracket.

Model	PM6987	PM6988	PM6989	PM6986	PM6979
No. of Small Hand Holds (AAU0067)	2	3	4	4	5
No. of Medium Hand Holds (AAU0068)	2	3	3	4	5
No. of Large Hand Holds (AAU0069)	2	2	2	3	3
Panel Number	BFC3263	BFC3265	BFC3267	BFC3269	BFC3271

Model	PM6987	PM6988	PM6989	PM6986	PM6979
Leg Frame Part Number	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the **Guidelines** at the beginning of this instruction book.

Step 4: Attach the hand holds to the panel. See **Detail A**. Position each hand hold against a corresponding cutout in the panel and attach as shown. Fully tighten the hardware according to tightening torque specifications to pull the hand hold into the panel.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 5: Attach the leg frames to the deck. See **Detail B**. Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the leg frames. See **Detail C**. Place the panel with the wider part at the bottom and align the side holes with the holes in the leg frames. Attach as shown.

Note: Attach the panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.

Step 7: Attach the barrier gates to the support posts. See **Detail D**. Place each gate against the post, and align a clamp with each gate band. Apply a drop of loctite to the bolts, and attach as shown. Leave the connections loose. Both gates should be mounted at the same height directly over the deck. The bottom of the gates must be less than 3.5" (89 mm) from the deck surface to prevent any entrapment issues.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 10: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

PM6987 - 48" (1219 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	2
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3263	SHEET - .75" x 42.00" x 51.25"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6988 - 60" (1524 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	3
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3265	SHEET - .75" X 42.00" x 64.50"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



Bill of Materials

PM6989 - 72" (1829 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	9
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3267	SHEET - .75" x 42.00" x 77.75"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6986 - 84" (2134 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	4
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	19
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	11
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3269	SHEET - .75" x 42.00" x 91.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



Bill of Materials

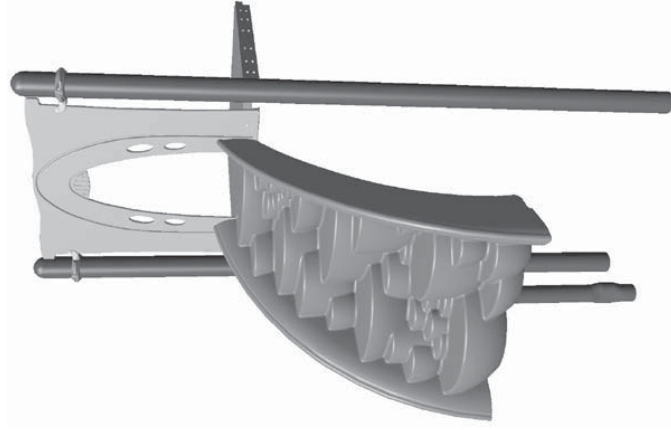
PM6979 - 96" (2438 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	5
AAU0068	HANDLE - MEDIUM	5
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	13
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	13
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC3271	SHEET - .75" x 42.00" x 104.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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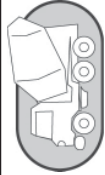
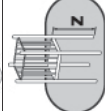
Installation Instructions Playmakers® Model PM7439 Rock Climber To Deck



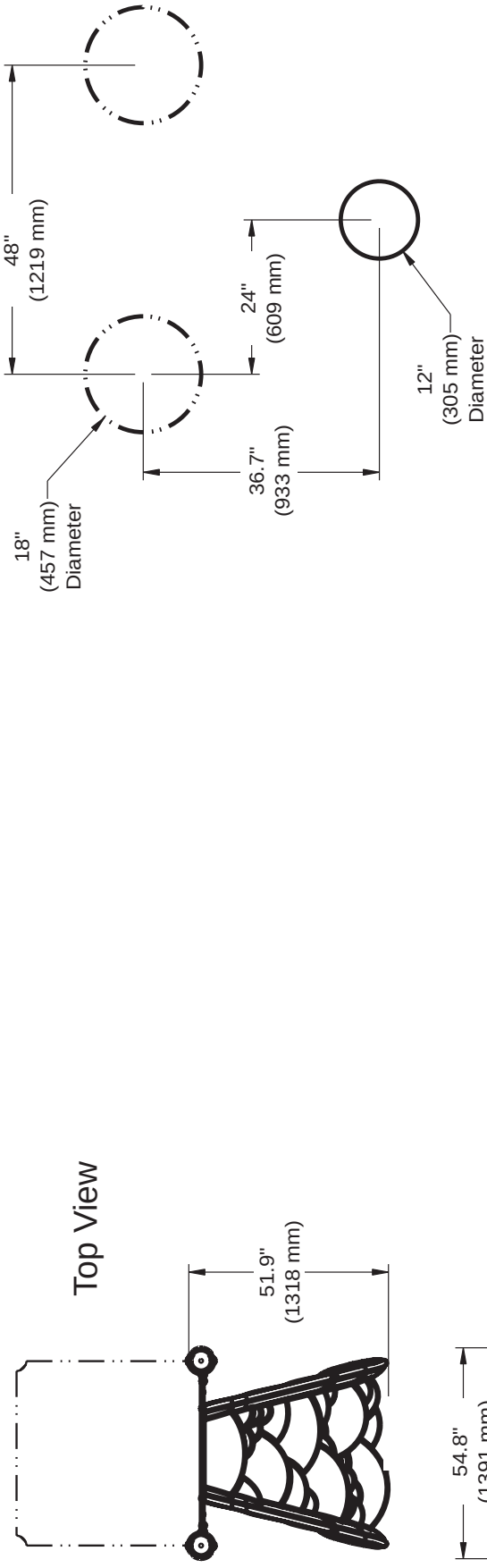
Assembly View

Installation Preparation

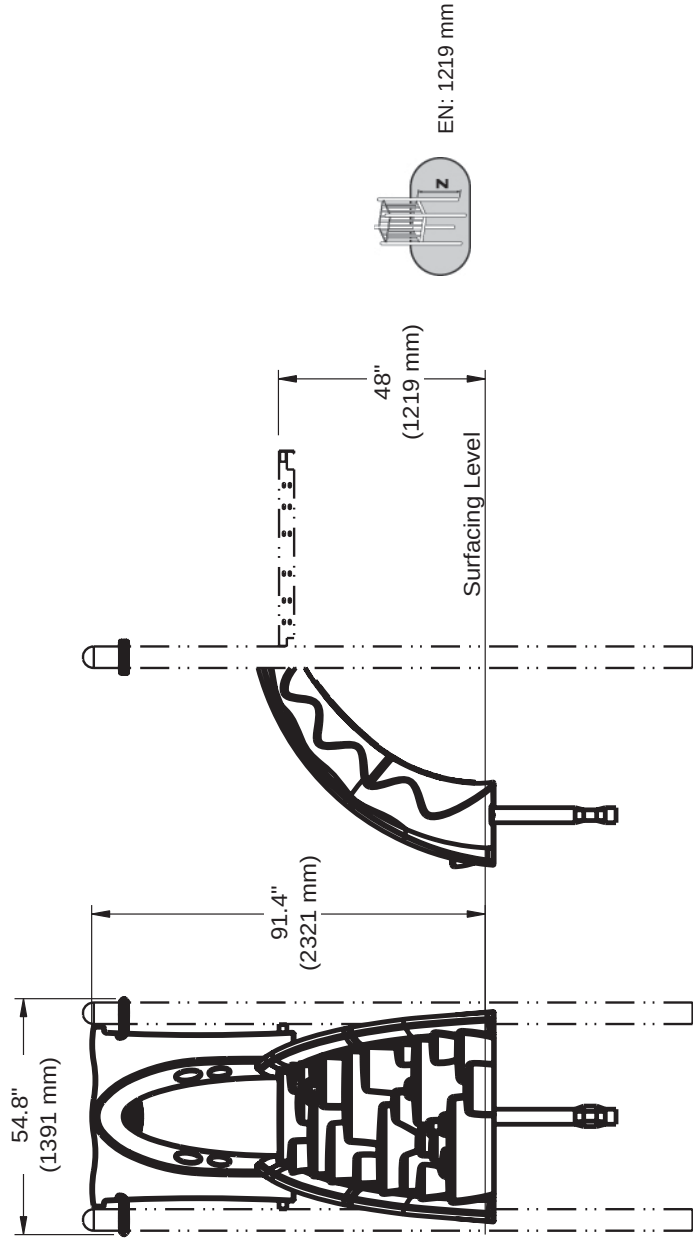
Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	153.5 lbs. (69,8 kg)
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions



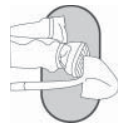
Footing Diagram



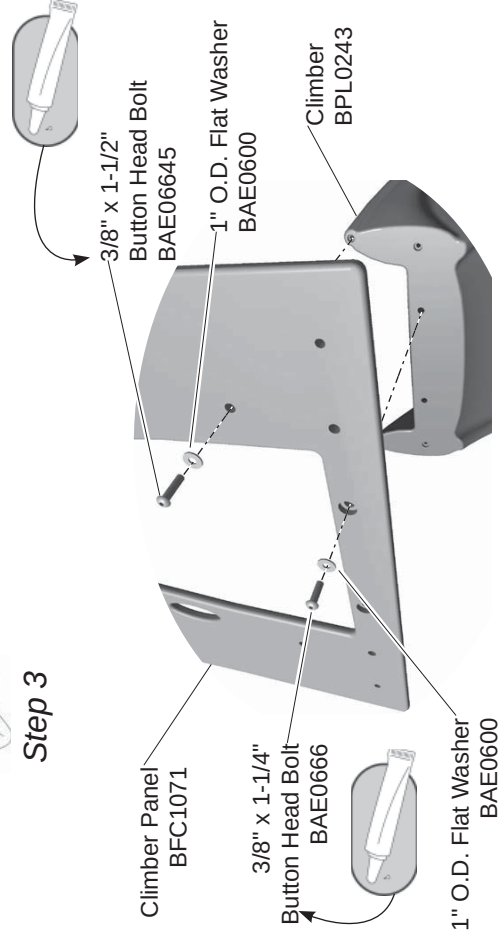
Elevation Views

Installation Instructions

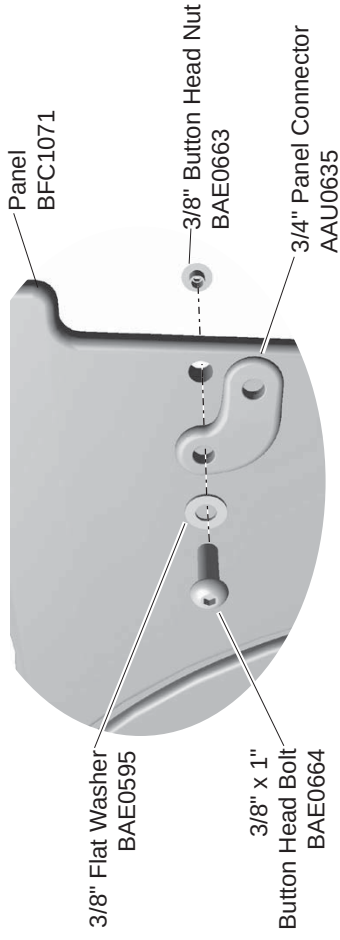
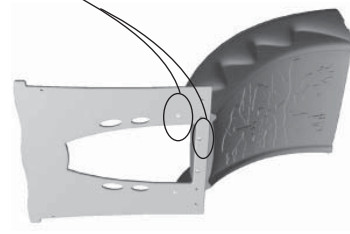
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



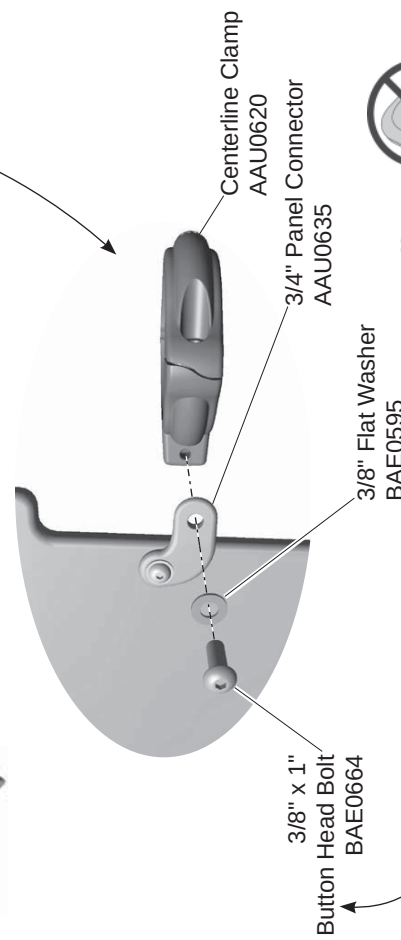
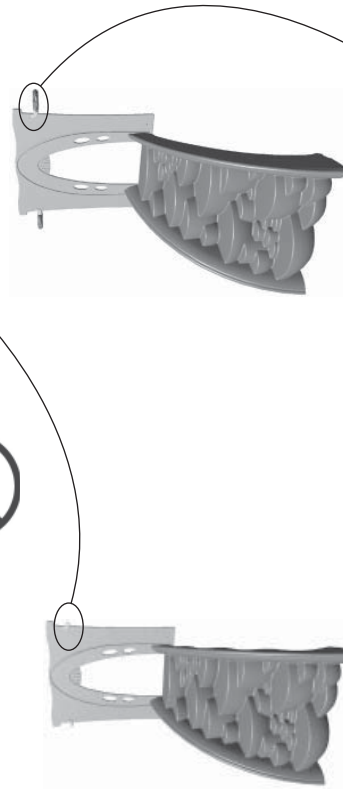
Step 3



**Detail A
Step 4**



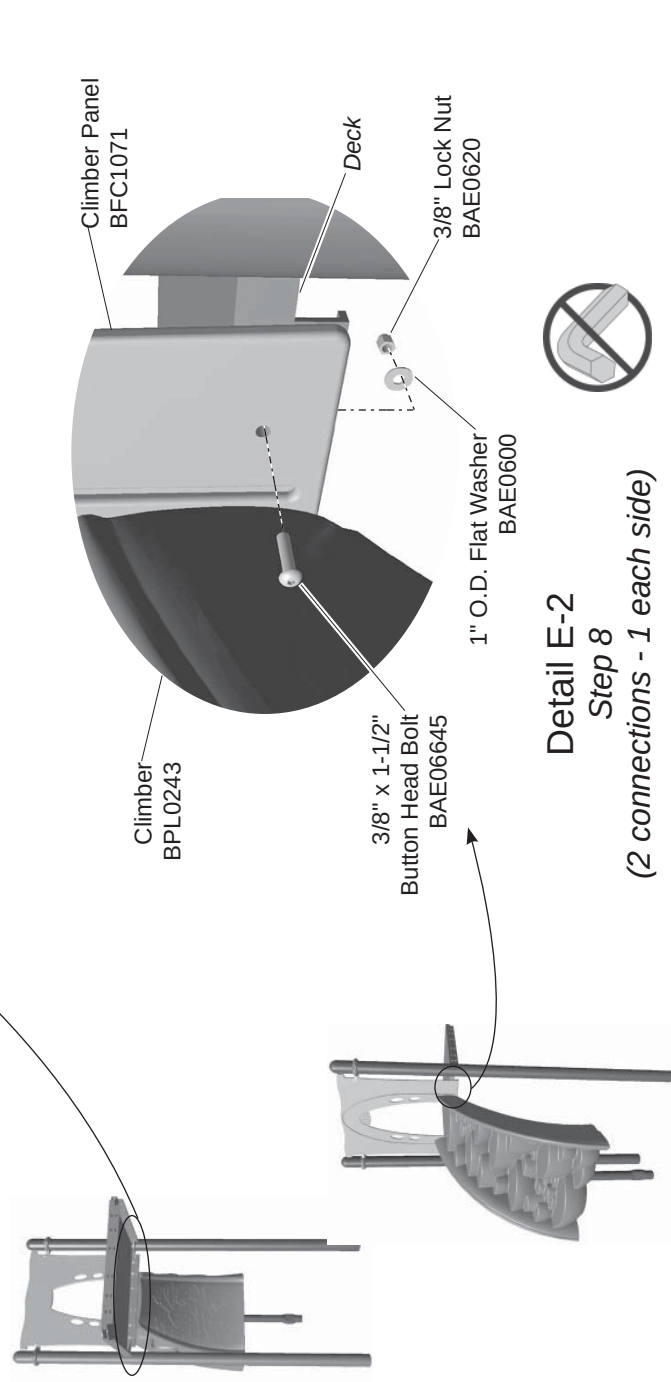
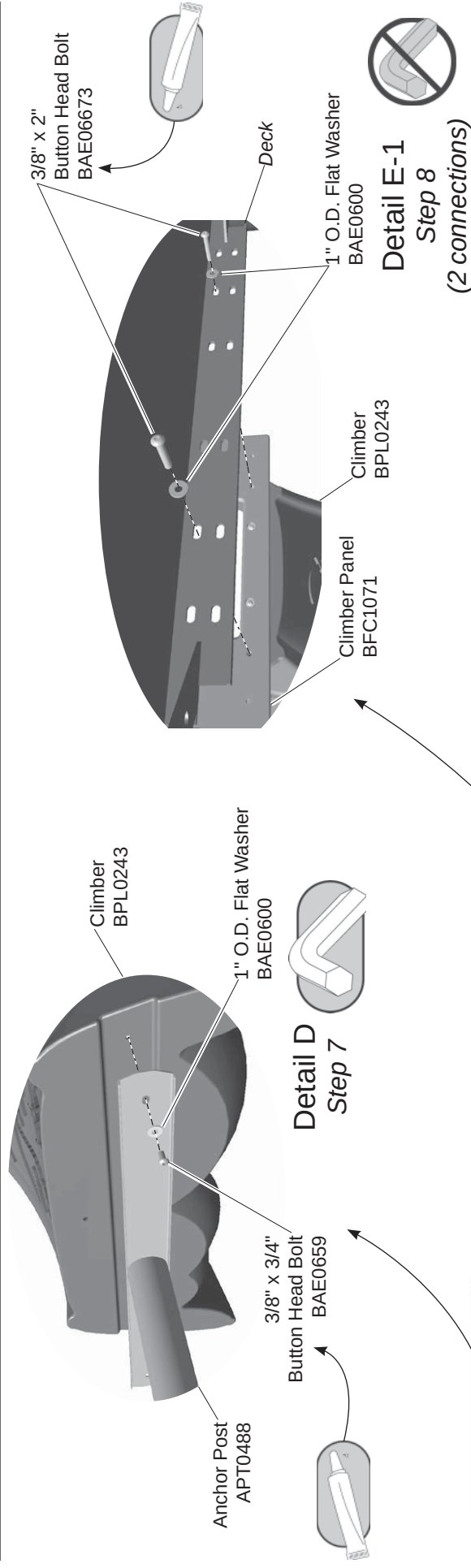
**Detail B
Step 5**



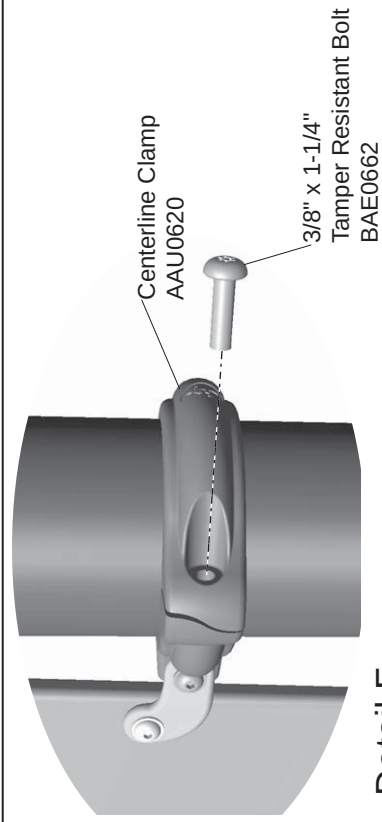
**Detail C
Step 6**



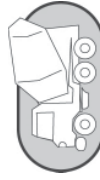
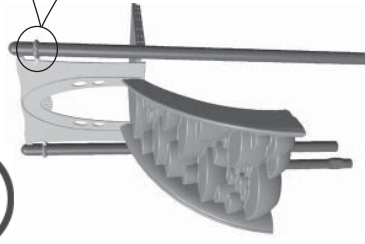
Installation Instructions



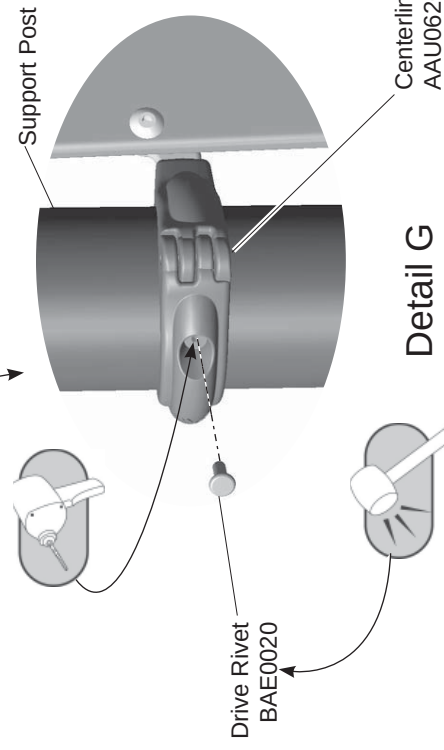
Installation Instructions



Detail F
Step 9



Step 10



Detail G
Step 11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footing as shown in the **Component Footing Details**. See the *Playmaker Guidelines*.

Attach the climber panel to the climber.

Step 4: Attach the climber panel to the panel. See **Detail A**. Select the climber panel, the climber, and the appropriate hardware. There are (2) two connections for each size bolt. With the flat side of the panel facing away from the climber, apply a drop of loctite to the bolt threads and attach the panel to the climber as shown. Fully tighten connections. The *bottom outside* holes must be left open for attachment to the deck.

Attach the panel connectors and clamps to the panel.

Step 5: Attach the panel connectors to the panel. See **Detail B**. Select (2) two panel connectors, and the appropriate hardware. Attach the *short* leg of the connectors to the climber side of the panel as shown.

Step 6: Attach the clamps to the connectors. See **Detail C**. Select (2) two offset centerline clamps, and the appropriate hardware. Attach each clamp to the *panel* side of a connector as shown.

Step 7: Attach the anchor post to the climber. See **Detail D**. Select the anchor post and the appropriate hardware. There are (2) two connections. Apply a drop of loctite to the bolt threads and attach the anchor post to the bottom of the climber as shown. Fully tighten connections.

Step 8: Attach the climber and panel to the deck. See **Details E1 and E2**. Select the climber assembly and the appropriate hardware. There are (4) four total connections, (2) two for each size bolt. With adequate manpower, lift the climber into place against the deck with the support post in the footing. Attach to the deck as shown in the details. Apply a drop of loctite to the 2" bolt threads before threading into to climber.

Secure the clamps to the support posts.

Step 9: Secure the clamps to the support posts. See **Detail F**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Attach each clamp to a post as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 11: Install the drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM7439 - ROCK CLIMBER TO DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0488	POST - 45.00" x 22.42" x 3.75"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	2
BFC1071	SHEET - 42.00" x 47.00" x .75" ROCK CLIMBER PANEL	1
BPL0243	ROCK CLIMBER	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM0296	12" (305 mm) to 24" (610 mm)	66.01 lbs. (30 kg)
ZZPM0297	36" (915 mm) to 48 " (1219 mm)	74.81 lbs. (34 kg)

Installation Instructions

Playmakers® Model PM0296 and PM0297

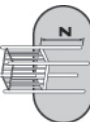
12" (305 mm) to 24" (610 mm) Deck Access

and 36" (914 mm) to 48" (1219 mm) Deck Access

GroundZero® Post w/ Ladder

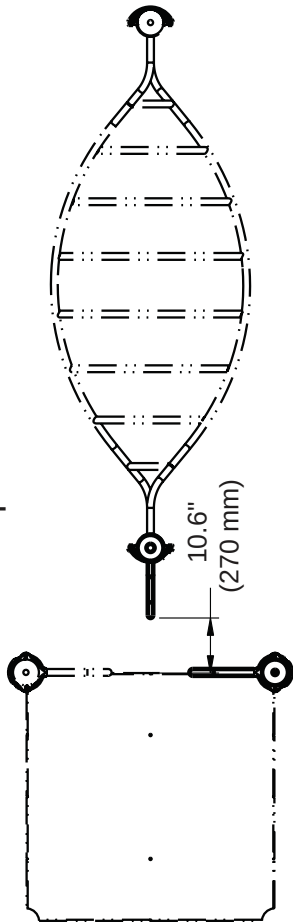
Installation Preparation

- Recommended Crew: One (1) adult
- Installation Time: 0.5 man-hour
- Weight: (refer to table)
- Concrete Required: 0.13 cubic yard (0.10 cubic meters)
- Use Zone:..... Refer to Master Drawing
- User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

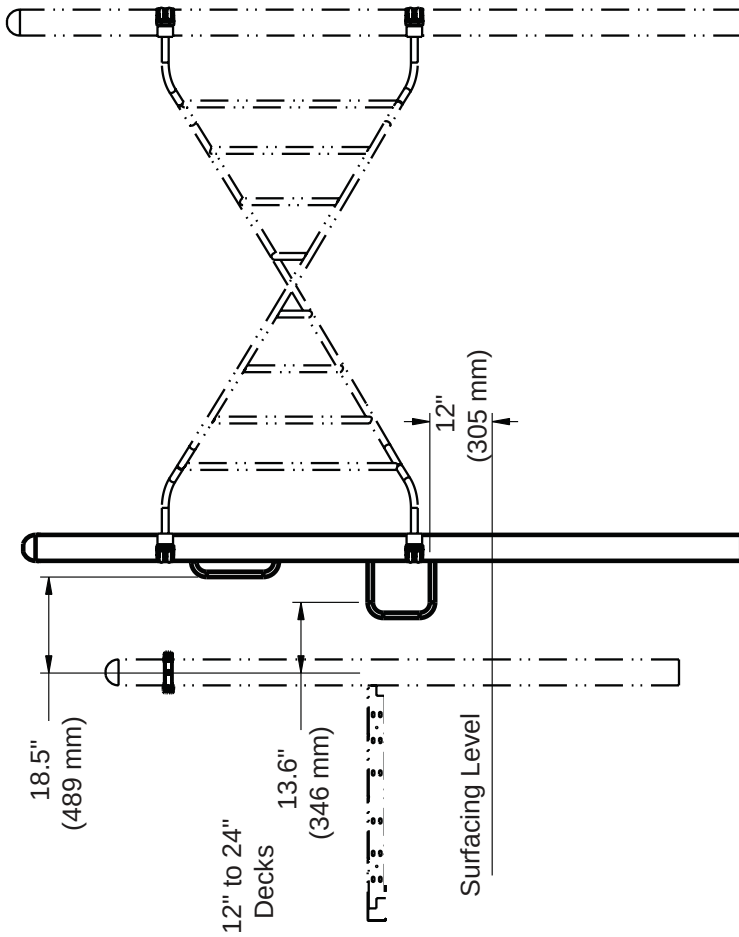
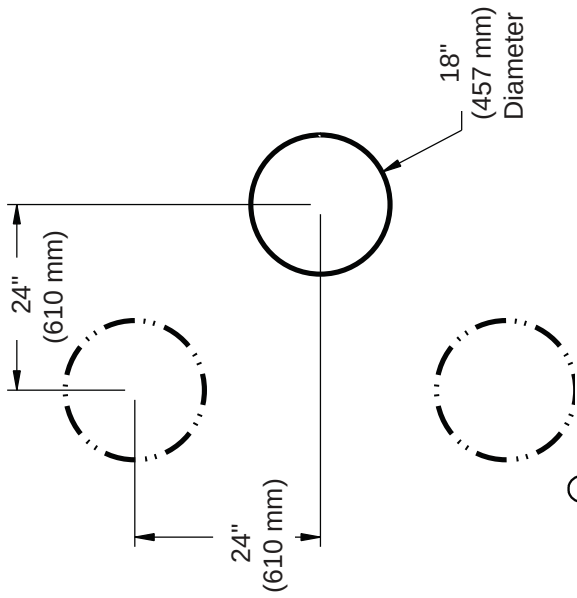
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <u>Not</u> Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

Installation Instructions

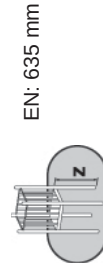
Top View



Footing Diagram

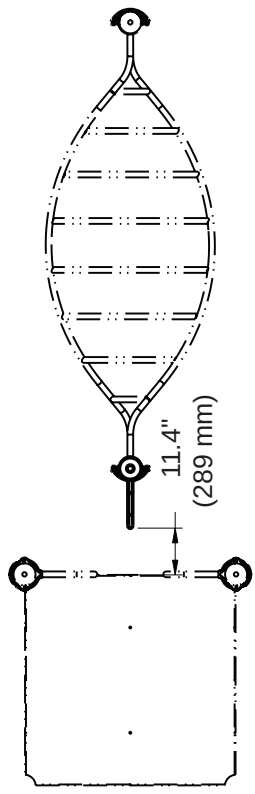


Elevation Views
ZZPM0296

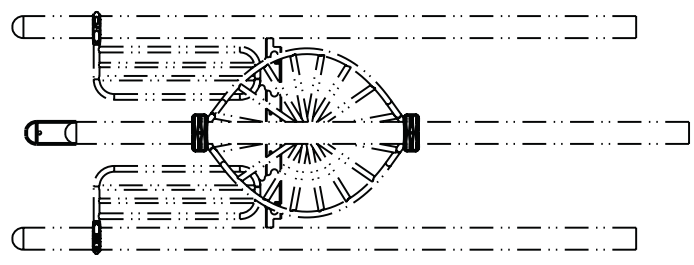
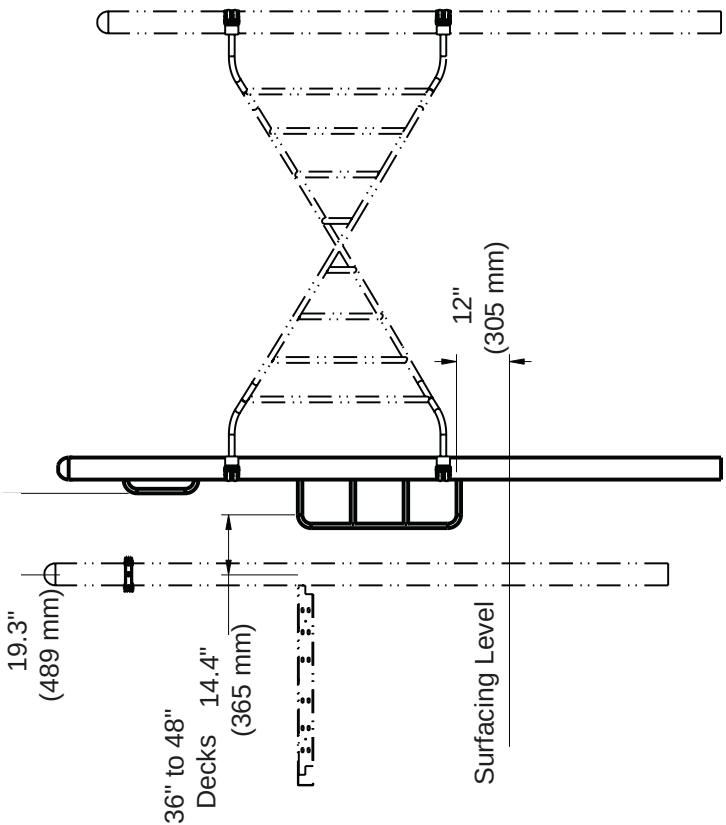
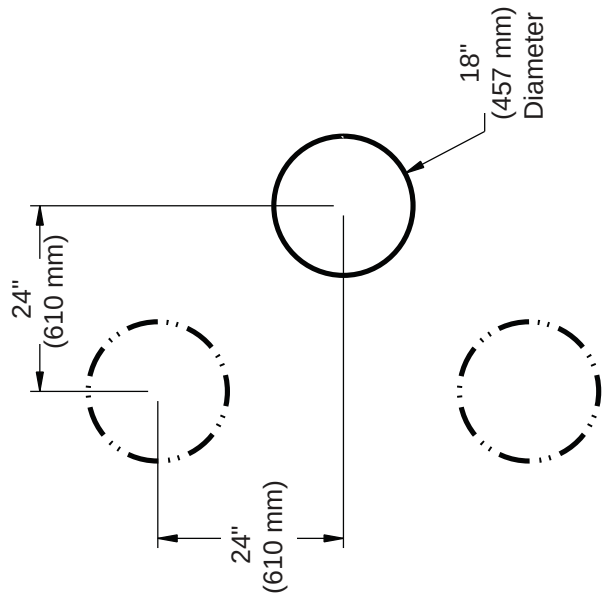


Installation Instructions

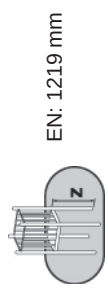
Top View



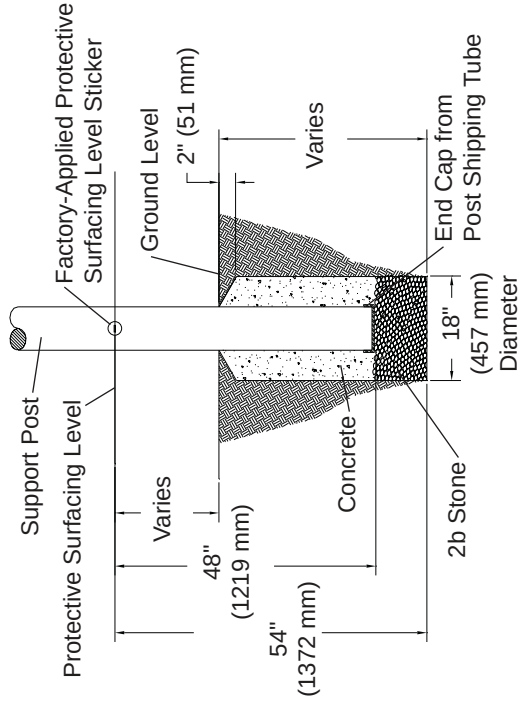
Footing Diagram



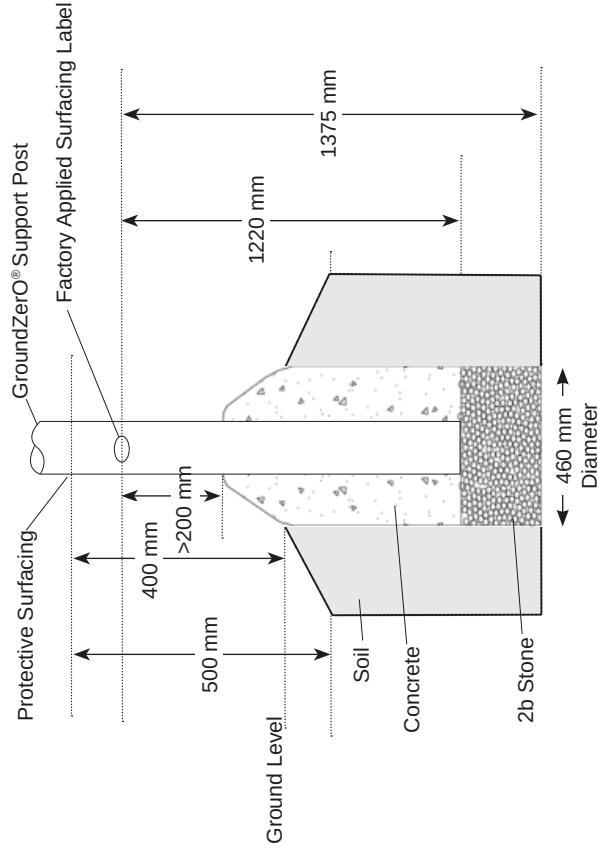
Elevation Views
ZZPM0297



Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



Footing Detail - GroundZero® Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footing Details**.

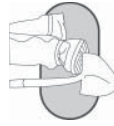
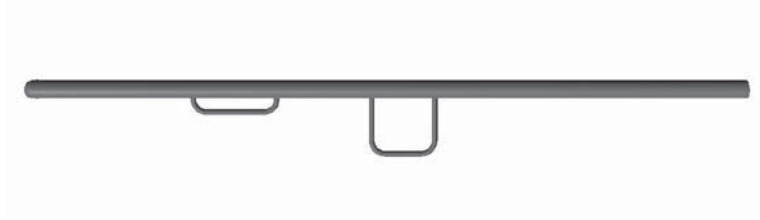
Place the support post in the prepared hole.

Step 4: Place the support post into the prepared hole. See **Detail A** and **Elevation View**. Select the support post. Place the post into the hole as shown in the **Elevation View**.

Important Note: Align the ladder to the deck as shown in the **Elevation View**.

Final Details.

Step 5: Plumb and level entire component. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



Step 3



Step 5

Detail A
Step 4

Bill of Materials

PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER		PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER	
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)
	QTY.		QTY.
	1		1

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⚠ WARNING

Attention Owner

The Sky Link and The Sky Arch is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Sky Link and The Sky Arch can result in serious accidents. The following rules for the use of the Sky Link and The Sky Arch must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Sky Link and The Sky Arch is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the Sky Link or The Sky Arch assembly.
- Users must move in same direction across the length of the Sky Link and The Sky Arch assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.

- Be alert to swinging feet generated by body movement of participants using the apparatus.

- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.

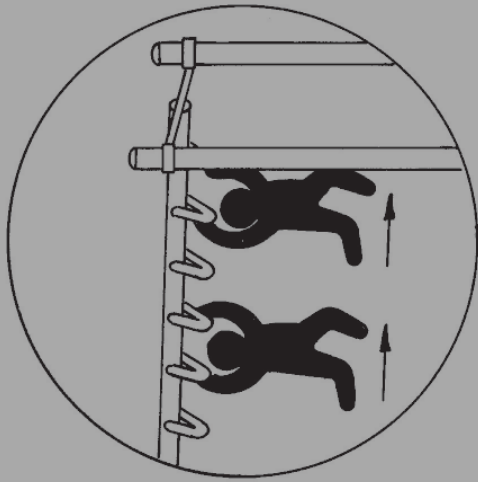
- Drop from hand rungs with knees slightly bent and land on both feet.

- Protective surfacing material must be installed and maintained within the use zone of the Sky Link and The Sky Arch in accordance with the applicable standard in your area, appropriate for the fall height of the Sky Link and The Sky Arch.

- Review and familiarize warning document supplied with each Sky Link and The Sky Arch shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

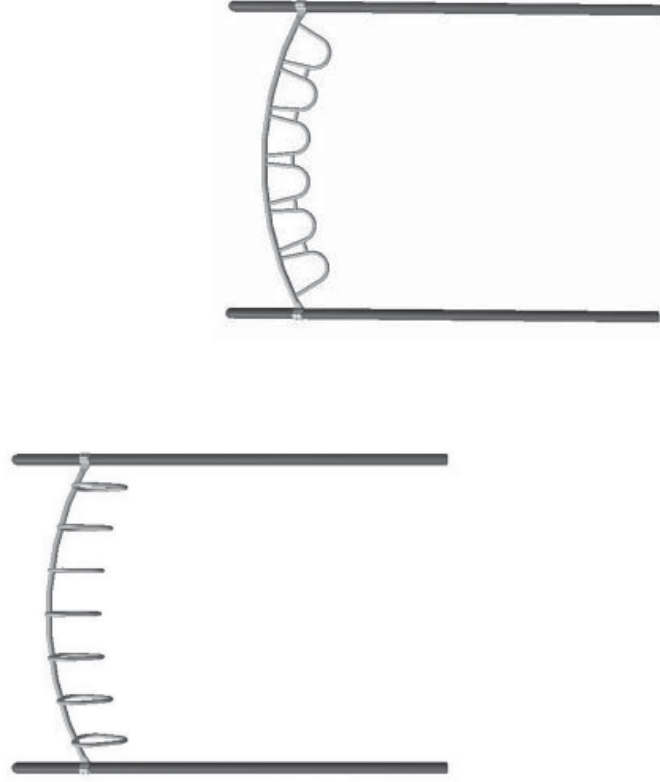


Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet

Installation Instructions Playmakers® Models PM8450 & PM8456 The Sky Link & The Sky Arch

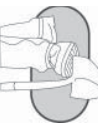
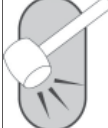
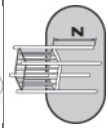


Assembly View (representative model)

Model	Name	Weight
ZZPM8450	The Sky Link	55.1 lbs. (25 kg)
ZZPM8456	The Sky Arch	45.7 lbs. (20.8 kg)

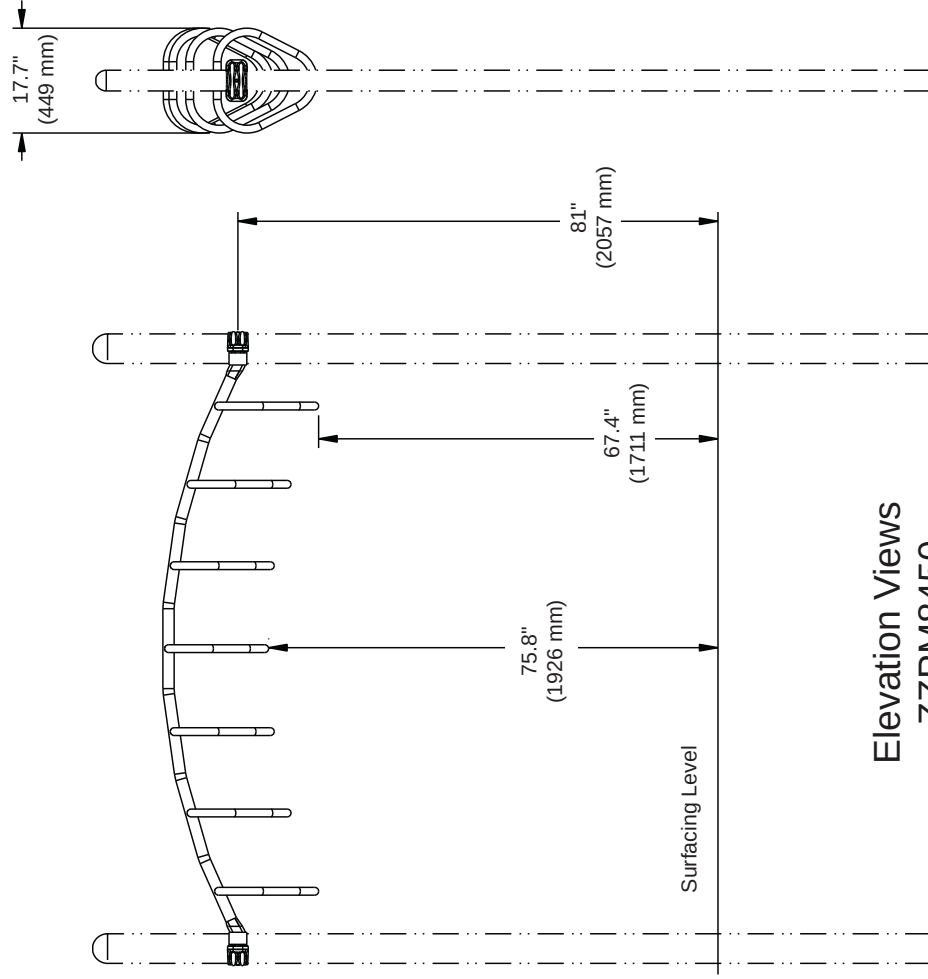
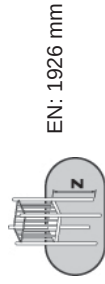
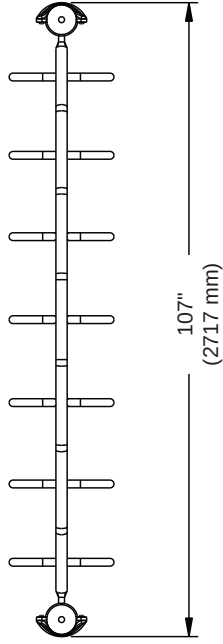
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 installation-hours
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

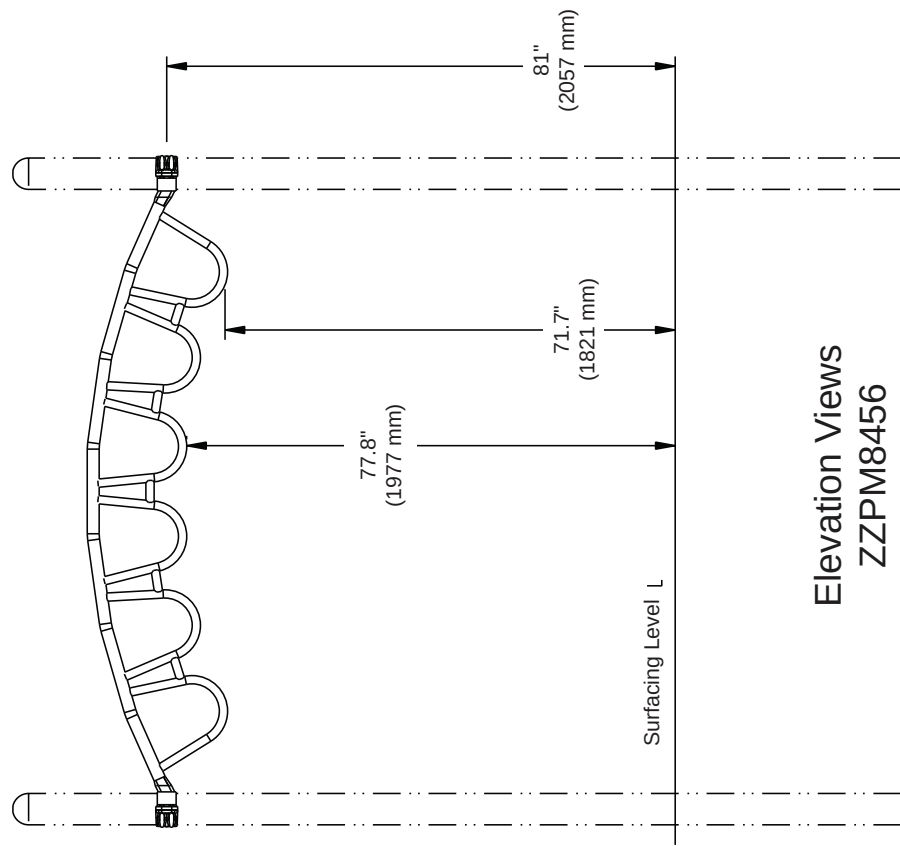
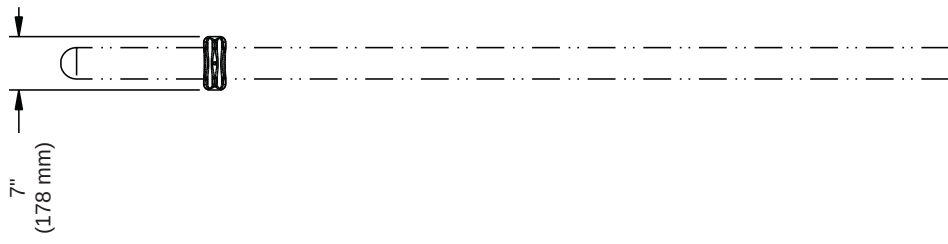
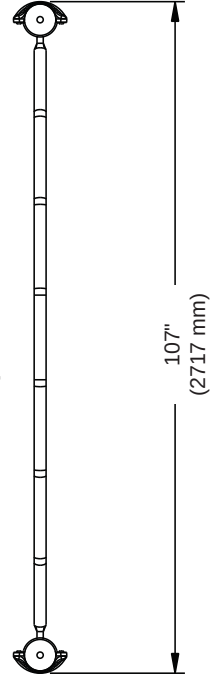


Footing Diagram
Both Models

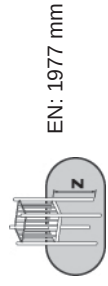
Elevation Views
ZZPM8450

Installation Instructions

Top View

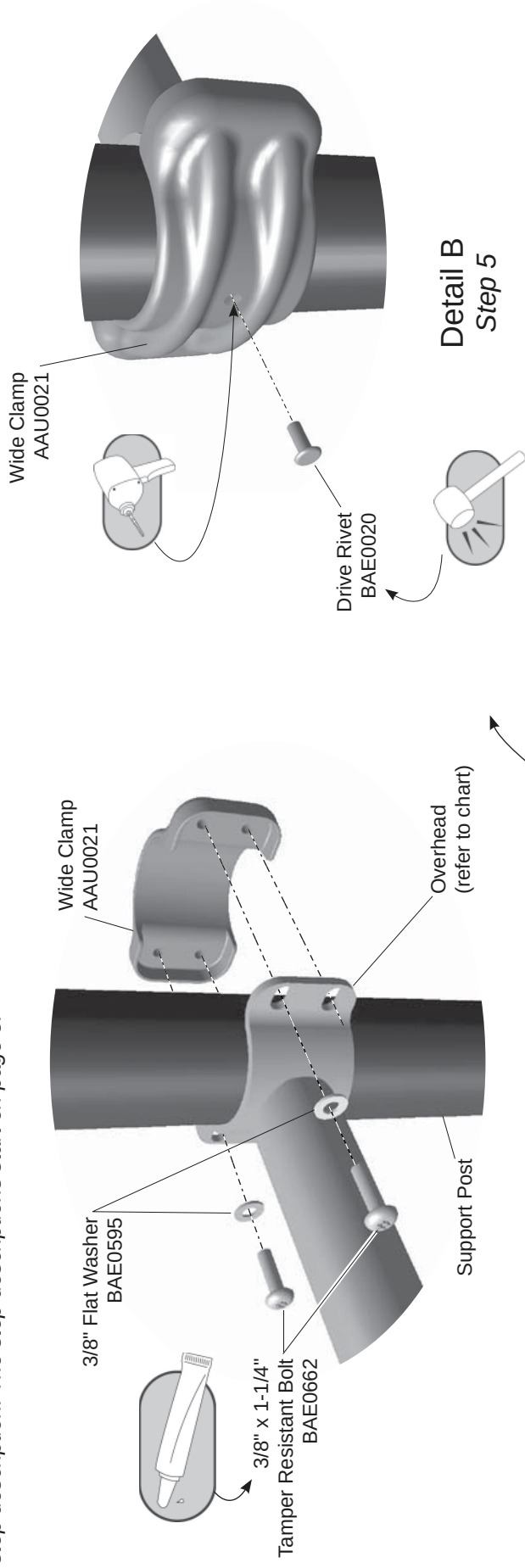


Elevation Views
ZZPM8456

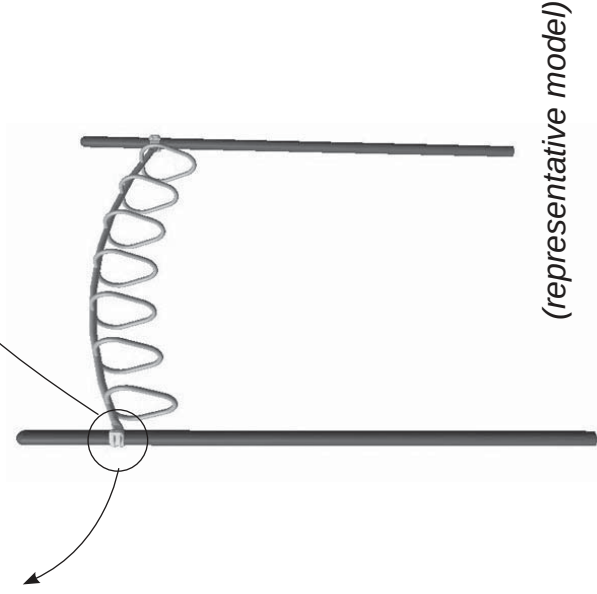


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3



Detail B
Step 5

Model	Overhead Part Number
ZZPM8450	AFR0777
ZZPM8456	AFR0775

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0777	OVERHEAD - ADVENTURE SERIES BACKBONE (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8456 - THE SKY ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0775	OVERHEAD - ADVENTURE SERIES LOOP (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8



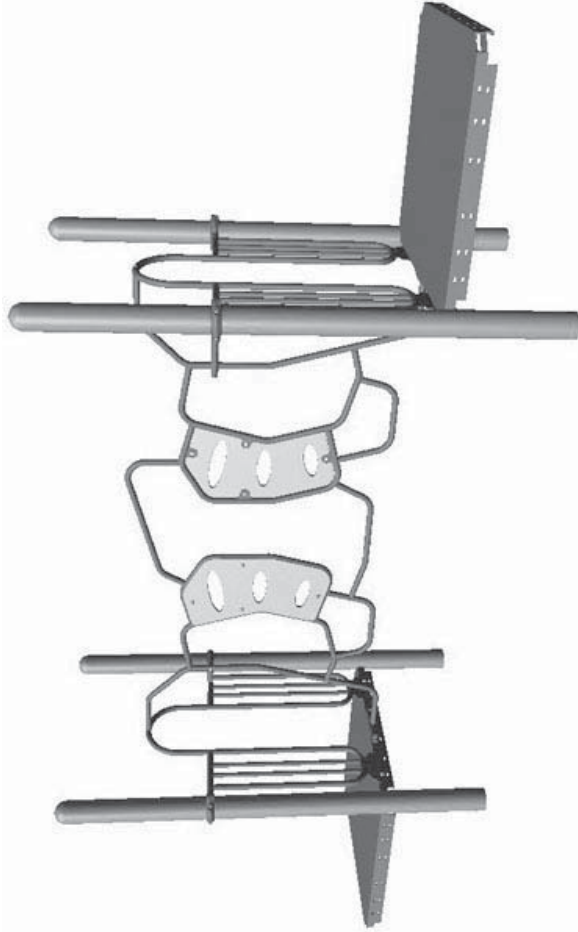
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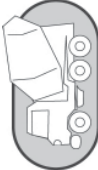
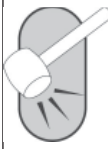
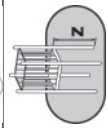
Installation Instructions Playmakers® Model PM6700 GEO Bridge Climber



Assembly View

Installation Preparation

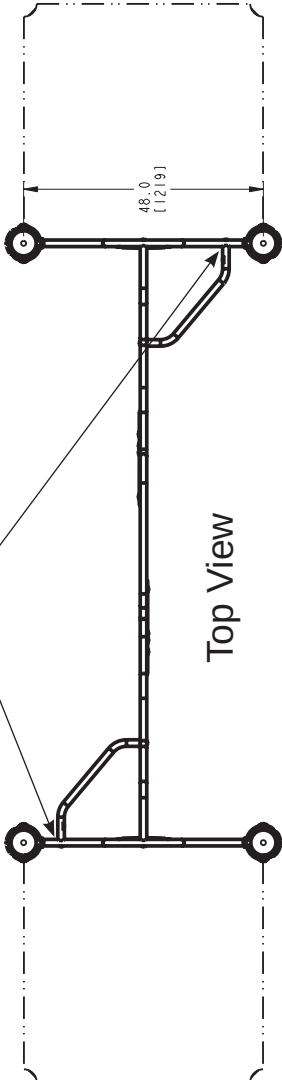
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 171.2 lbs. (77,8 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

Installation Instructions

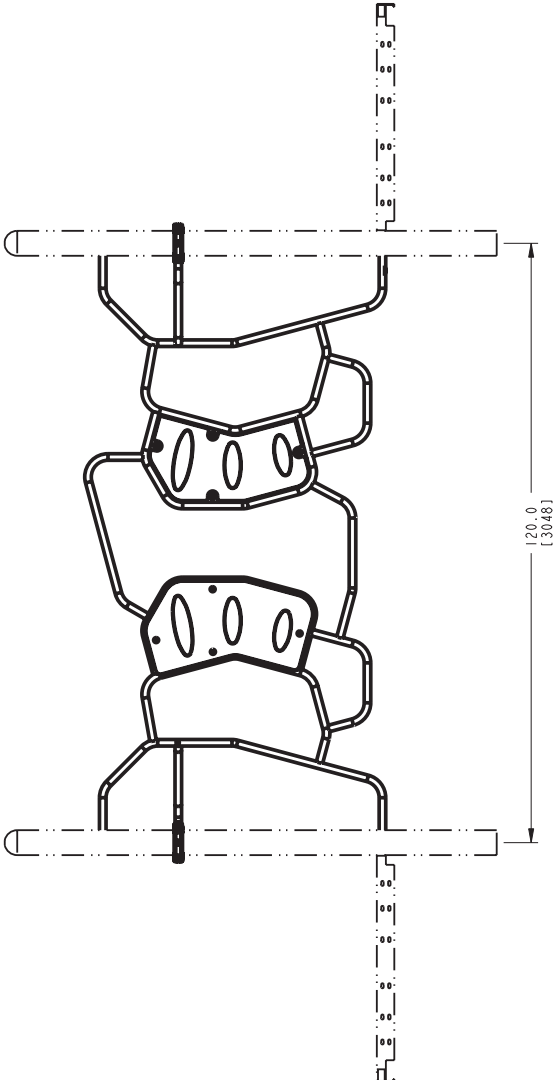
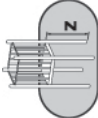
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Mount the barriers to the posts so that the handhold connection hole in the barrier is on the same side as the climber handholds

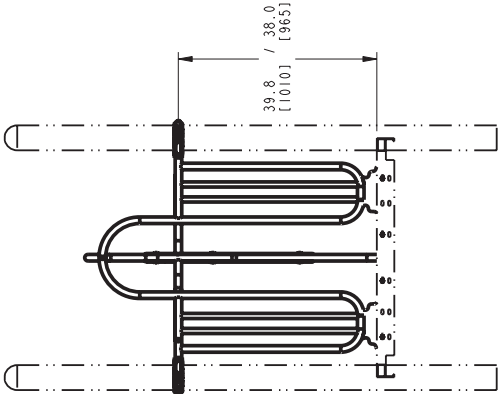


Top View

EN: 1013 mm or 965 mm (depending on gate placement) **plus** the height of the deck above the protective surfacing.

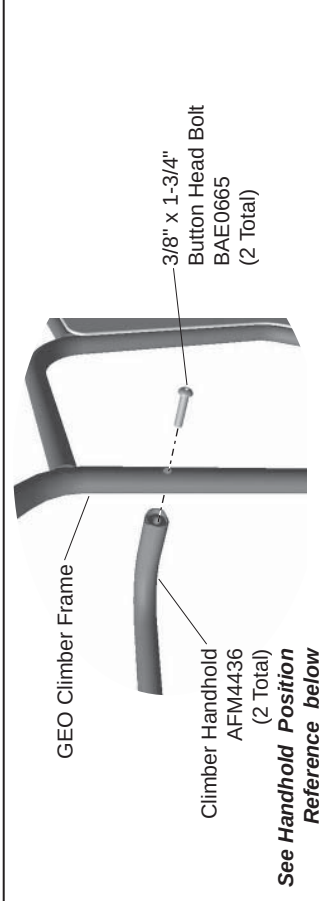


Elevation Views



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail C
Step 5
Assemble the climber

Climber Top View

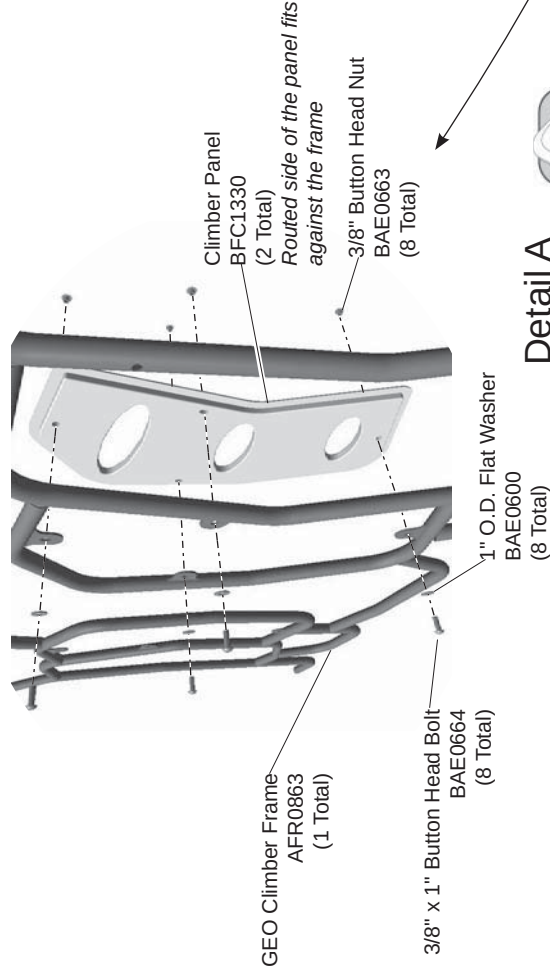


Handholds are mounted on opposite sides of the climber.

The end of the handhold that is coped in this manner is positioned against the vertical rung on the climber as shown in Step 5.

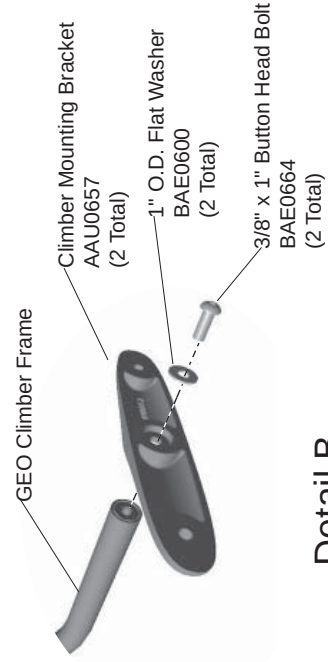
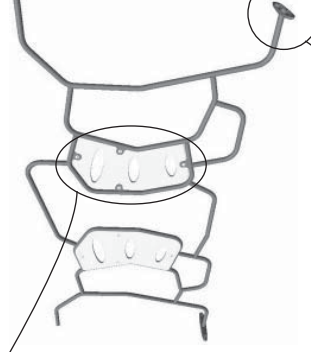
Handhold Position Reference

The end of the handhold that is coped in this manner is positioned against the horizontal rung on the barrier as shown in Step 9.



Detail A
Step 3
Assemble the climber

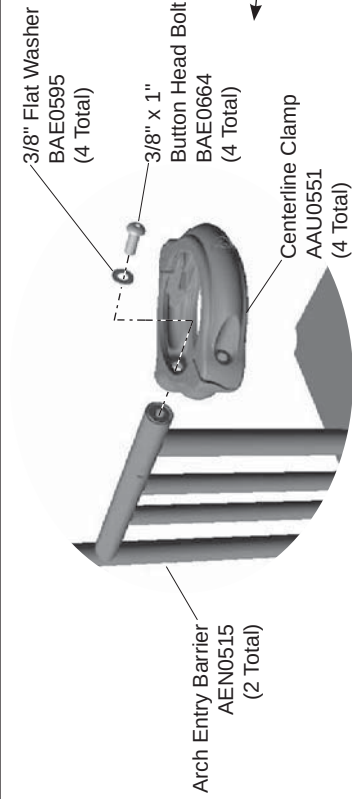
Panels are mounted on opposite sides of the climber.



Detail B
Step 4
Assemble the climber



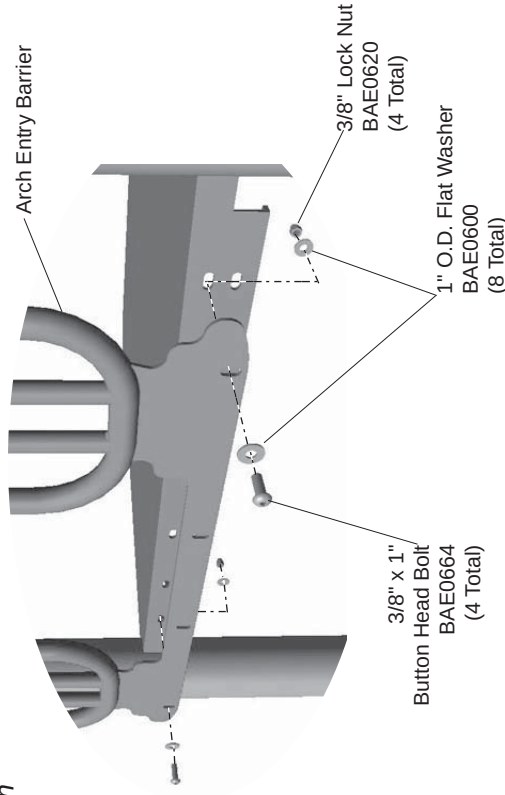
Installation Instructions



Detail D Step 6

Attach the clamps the arch entry barriers

The hinges on the clamps should face the same direction

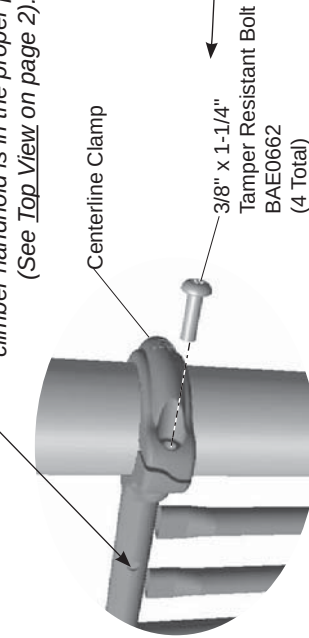


Note: Barriers can be attached to either the upper holes or lower holes in the deck.

Detail F Step 8

Attach the arch entry barriers to the decks

Important Note: Barriers must be connected to the posts so the hole for attaching the climber handhold is in the proper position (See Top View on page 2).



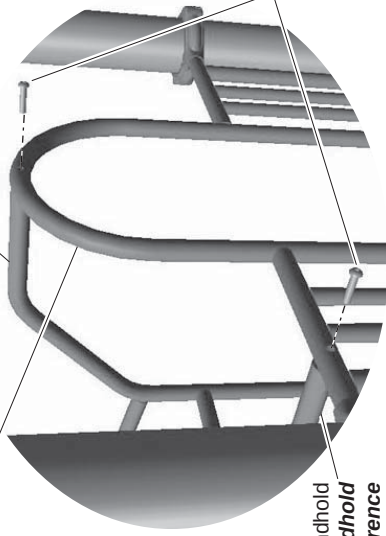
Detail E Step 7

Attach the arch entry barriers to the posts

Installation Instructions

GEO Climber Frame

Arch Entry Barrier



Climber Handhold
See Handhold
Position Reference
on page 3

3/8" x 1-3/4"
Button Head Bolt
BAE0665
(4 Total)

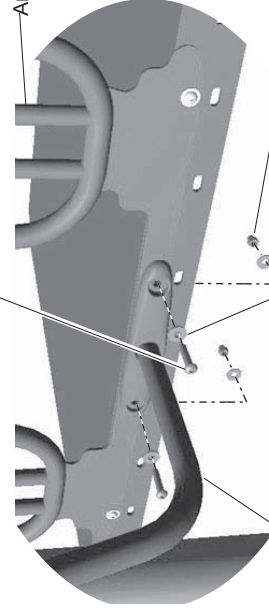
Detail G

Step 9
Attach the climber to the
arch entry barriers



3/8" x 1-1/2" Button Head Bolt
BAE06645
(4 Total)

Arch Entry Barrier



GEO Climber Frame

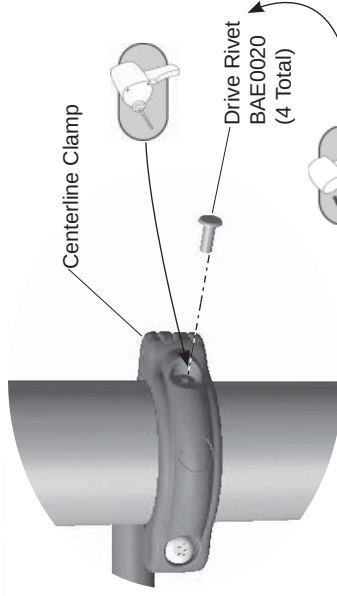
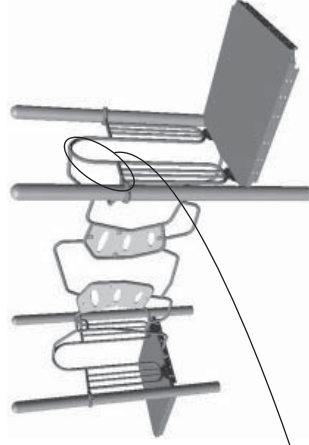
3/8" Lock Nut
BAE0620
(4 Total)

1" O.D. Flat Washer
BAE0600
(8 Total)



Detail H
Step 10
Attach the climber to the
decks

Note: If the barriers are attached to the lower holes in the deck, the climber must also be attached to the lower holes.

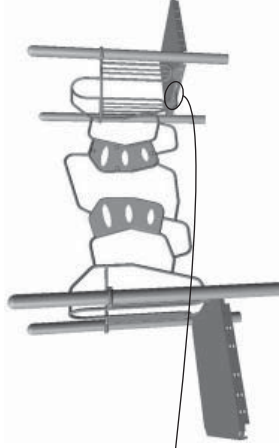
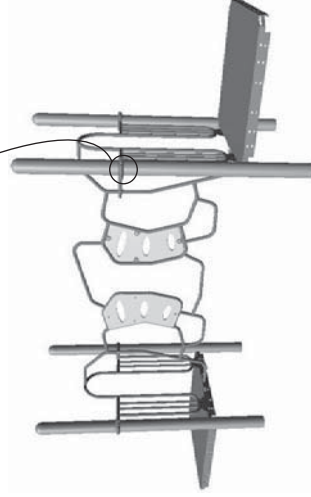


Centerline Clamp

Drive Rivet
BAE0020
(4 Total)

Detail I

Step 12
Secure the clamps to
the posts



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the climber.

Step 3: Attach the panels to the climber. See **Detail A**. Attach the panels to opposite sides of the climber as shown.

Step 4: Attach the mounting brackets to the climber. See **Detail B**. Attach the brackets to bottom rails on the climber as shown.

Step 5: Attach the handholds to the climber. See **Detail C**. Attach the handholds on opposite sides of the climber as shown.

Attach the clamps to the arch entry barriers.

Step 6: See **Detail D**. Attach the clamps to the arch entry barriers as shown. The hinges on the clamps should face the same direction.

Attach the arch entry barriers to the posts.

Step 7: See **Detail E** and **Top View**. Attach the barriers to the posts as shown. Position the barriers so the handhold connection hole in the barrier is on the same side as the handholds on the climber.

Attach the arch entry barriers to the decks.

Step 8: See **Detail F**. Attach the barriers to the decks as shown. The barriers can be attached to either the upper holes or the lower holes in the deck.

Attach the climber to the arch entry barriers.

Step 9: See **Detail G**. Attach the climber to the barriers as shown. Position the climber so the handholds are aligned with the connection hole in the each barrier.

Attach the climber to the decks.

Step 10: See **Detail H**. Attach the climber to the decks as shown.

Note: If the barriers are attached to the lower holes in the deck, the climber must also be attached to the lower holes.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

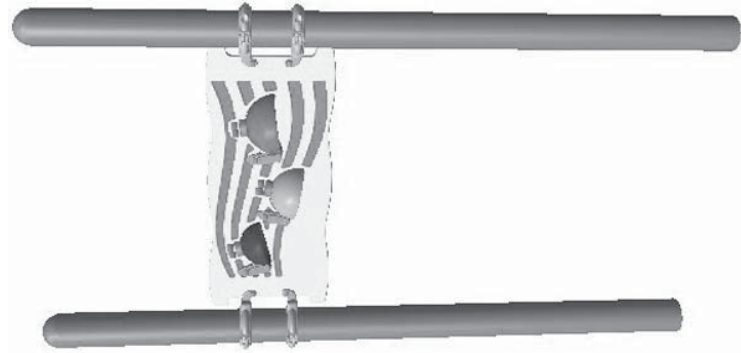
PM6700 - GEO BRIDGE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0657	CASTING - CLIMBER DECK CONNECTION	2
AEN0515	BARRIER - ARCH ENTRY 41.00" x 57.44" w/HOLE	2
AFM4436	FAB METAL - 1.315" O.D. x 16.75" x 20.16" w/2 BENDS	2
AFR0863	FRAME - GEO BRIDGE CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	6
BFC1330	SHEET - 18.89" x 33.64" INFILL	2



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Assembly View

Installation Instructions Playmakers® Model PM4409 Accessible Bell Panel

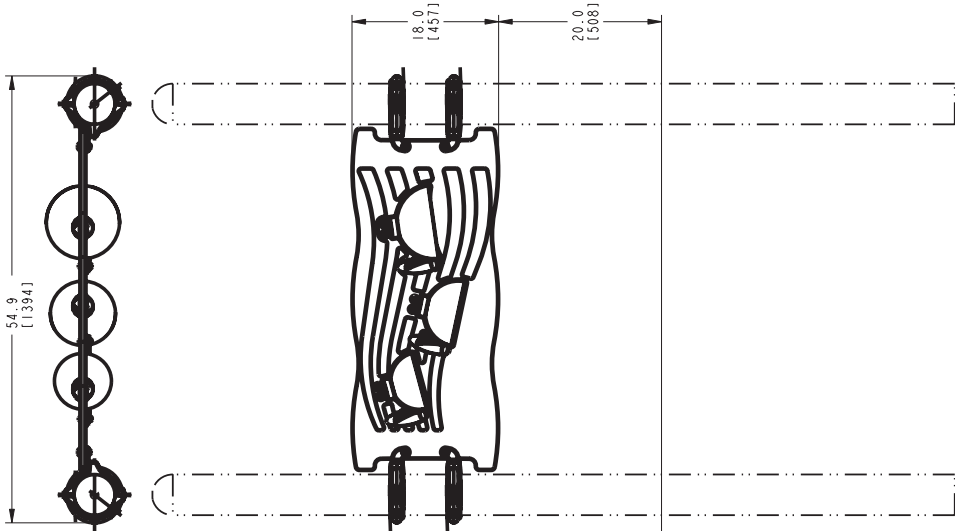
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

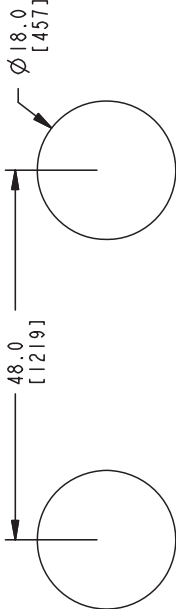
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

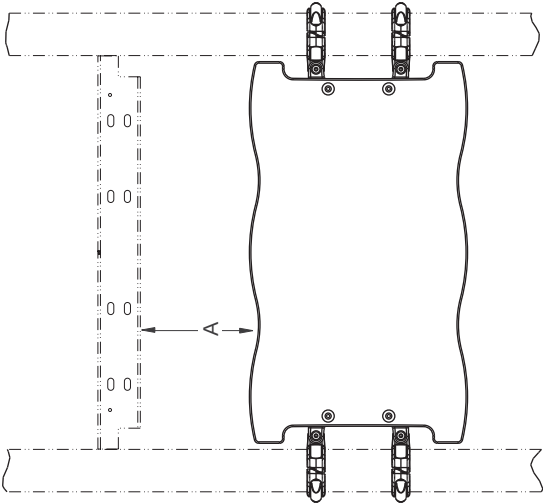
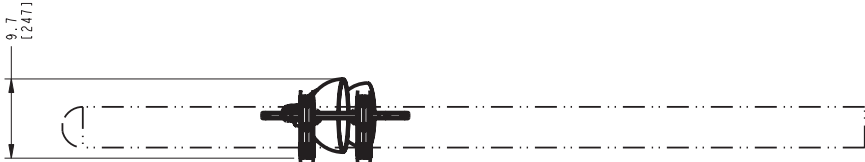
Top View



Elevation Views



Footing Diagram



Important Note:

- When panel is positioned under a deck, the innermost point on the top edge of the panel (A) must be less than 3 in. (76 mm) from the bottom edge of the deck/panel or more than 9 in. (230 mm) to prevent any entrapment issues.



Installation Instructions

Note:

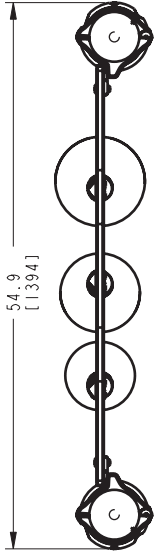
When panel is used as a guardrail, the maximum deck height above surfacing is:

- 30" (762 mm) for 2 to 5 years old.
- 48" (1219 mm) for 5 to 12 years old.

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Deck/Platform Installation

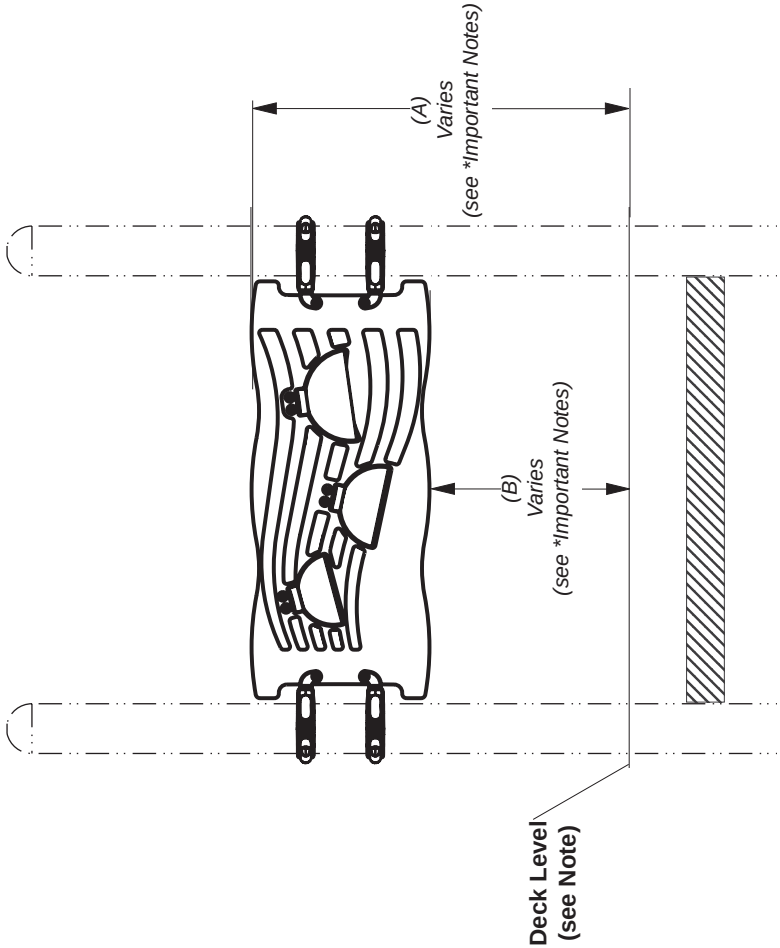
Top View



***Important Notes:**

When panel is used as a guardrail, the minimum height requirements must be maintained to prevent unintentional falls from a platform.

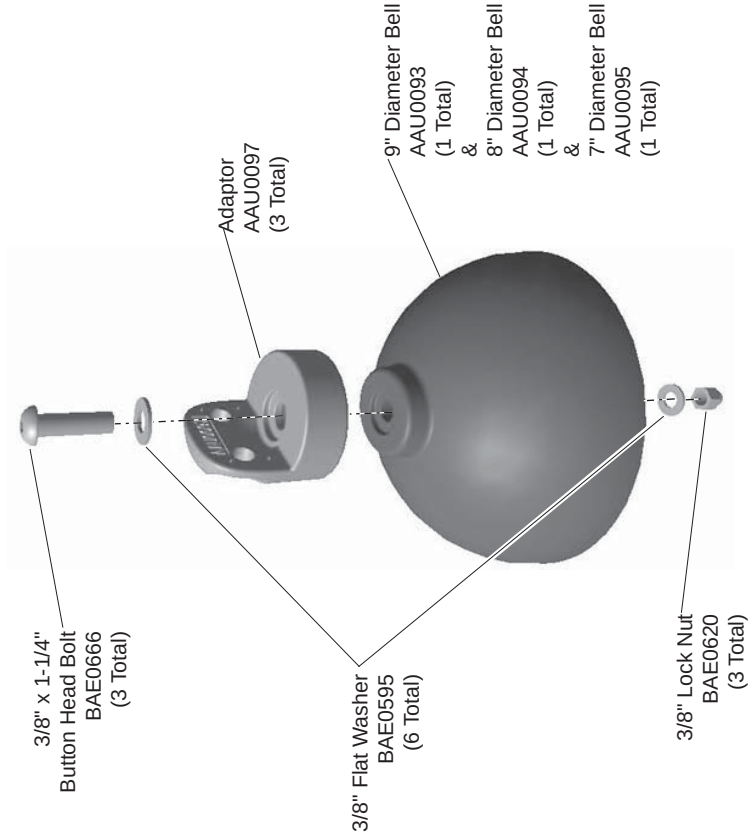
- Ages 2 to 5 years old: The top (A) innermost surface of the guardrail should be at least 29" (737 mm) high and the lower (B) outermost edge should be no more than 23" (584 mm) above the platform.
- Ages 5 to 12 years old: The top (A) innermost surface of the guardrail should be at least 38" (965 mm) high and the lower (B) outermost edge should be no more than 28" (711 mm) above the platform.



Deck/Platform Elevation Views

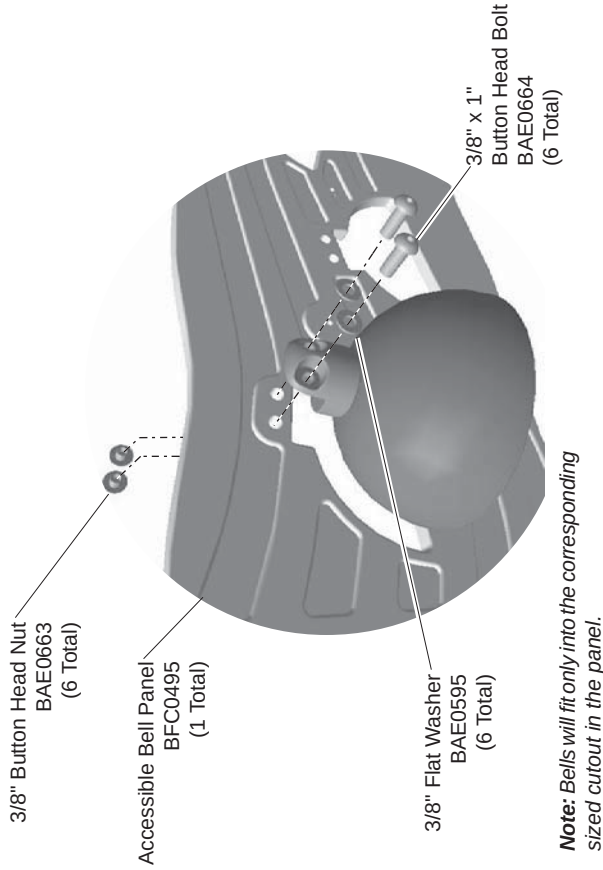
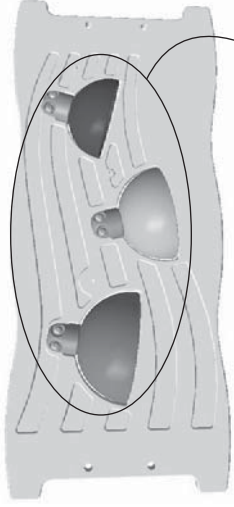
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A Step 3

Assemble the bells.



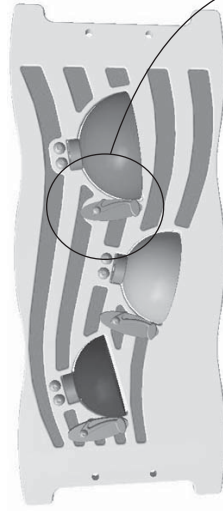
Note: Bells will fit only into the corresponding sized cutout in the panel.



Detail B Step 4

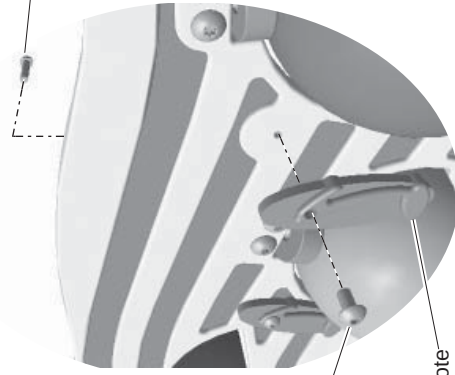
Attach the bells to the panel.

Installation Instructions



Note: Attach the music notes on the opposite side of the panel from where the bell adaptors are mounted.

1/4" x 1"
Button Head Bolt
BAE01522
(3 Total)



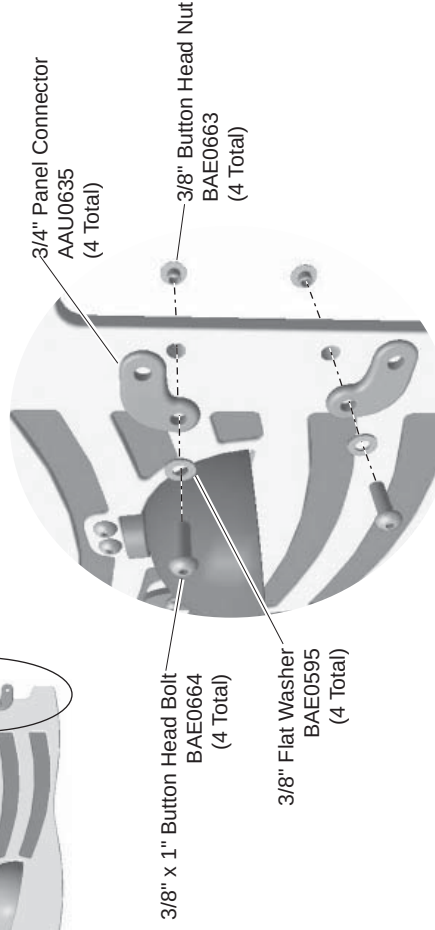
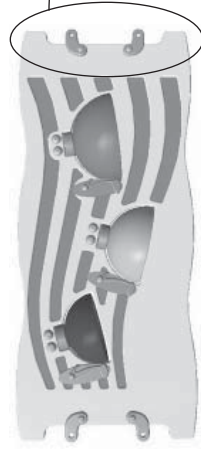
1/4" Button Head Nut
BAE0162
(3 Total)

Music Note
BFC3350
(3 Total)



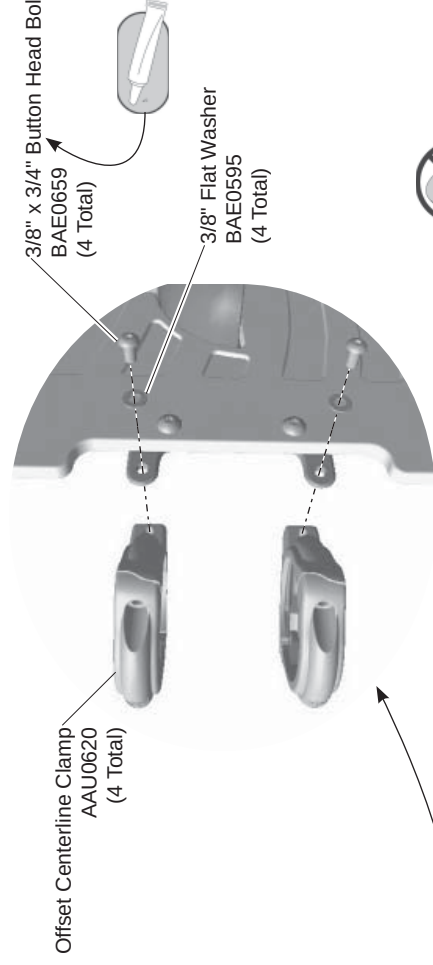
Detail C
Step 5

Attach the music notes (bell strikers) to the bell panel.



Detail D
Step 6

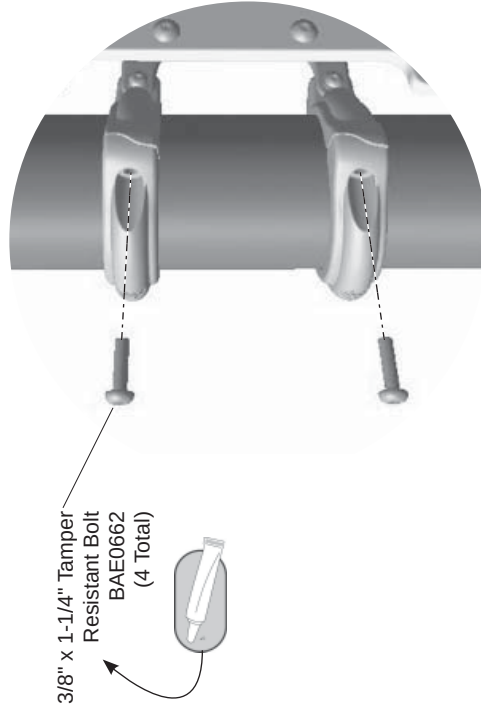
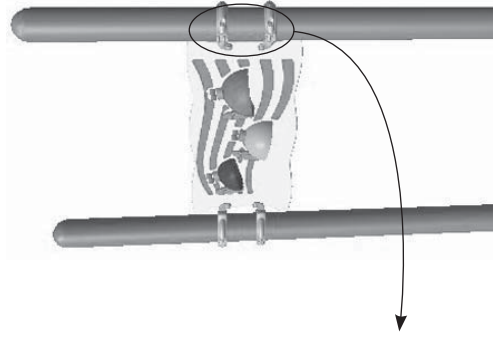
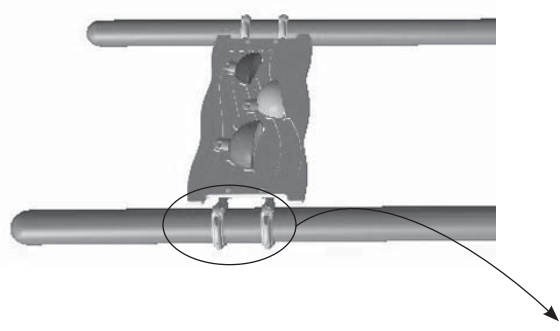
Attach the panel connectors to the bell panel.



Detail E
Step 7

Attach the clamps to the panel connectors.

Installation Instructions

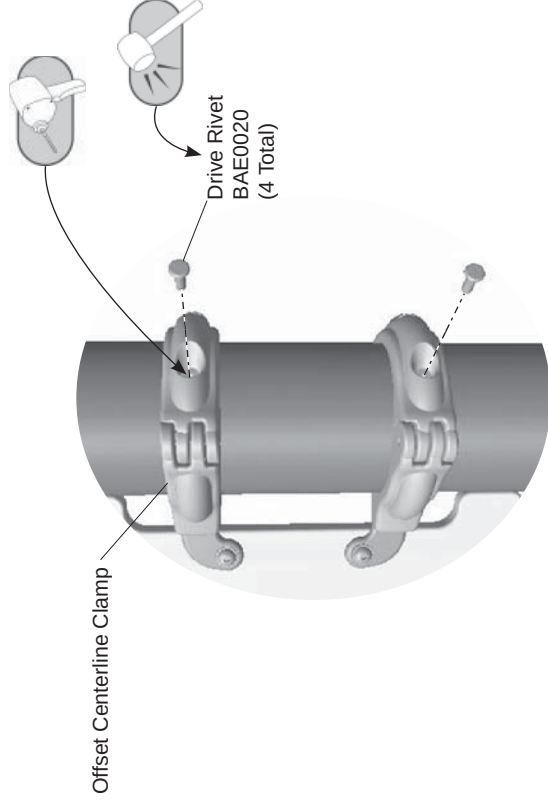


3/8" x 1-1/4" Tamper
Resistant Bolt
BAE0662
(4 Total)



Detail F
Step 8

Attach the clamps to the support posts.



Offset Centerline Clamp

Drive Rivet
BAE0020
(4 Total)



Detail G
Step 10

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Assemble the bells. See **Detail A**. Position each adaptor on top of a bell and attach as shown. Fully tighten the connection according to tightening torque specifications (See **Final Details**).

Step 4: Attach the bells to the panel. See **Detail B**. Position the bells into their corresponding cutouts in the panel and attach as shown. Fully tighten the connection according to tightening torque specifications (See **Final Details**).

Step 5: Attach the music notes (bell strikers) to the bell panel. See **Detail C**. Position the music notes on the opposite side of the panel from where the bell adaptors are mounted and attach as shown.

Step 6: Attach the panel connectors to the panel. See **Detail D**. Position the connectors against the upper and lower side holes in the panel and attach as shown.

Step 7: Attach the clamps to the panel connectors. See **Detail E**. Position the flat side of each clamp against the open end of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 8: Attach the panel to the support posts. See **Detail F**. Position the clamps around the post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. See **Important Notes** on **pages 2 and 3** if the panel is being mounted beneath a deck or if being used as a guardrail.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be rotated and reconnected to the panel. Remove the clamps before rotating the connector and reattach as before.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4409 - ACCESSIBLE BELL PANEL

PART NO.	DESCRIPTION	QTY.
AAU0093	MISC - 9.00" DIA. x 4.88" BELL	1
AAU0094	MISC - 8.00" DIA. x 4.38" BELL	1
AAU0095	MISC - 7.00" DIA. x 3.88" BELL	1
AAU0097	MISC - 2.50" DIA. x 2.52" ADAPTER	3
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	3
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	3
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	3
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8-16 x 1-1/4" TAMPER RESISTANT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BFC0495	SHEET - .75" x 42.00" x 18.00" ACCESS. BELL PANEL	1
BFC3350	SHEET-MUSIC NOTE	3

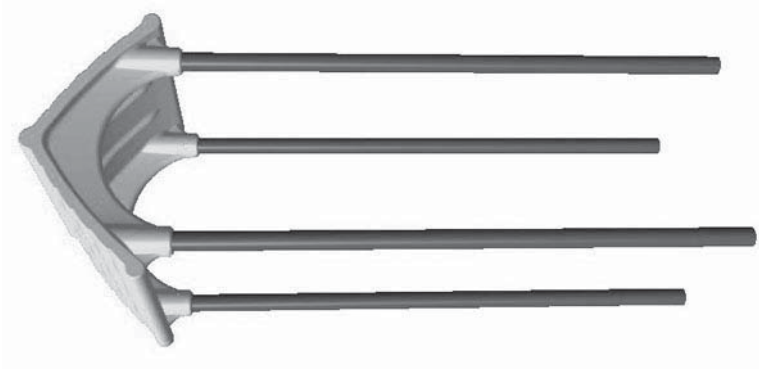


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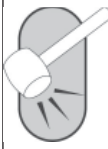
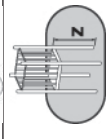


Assembly View

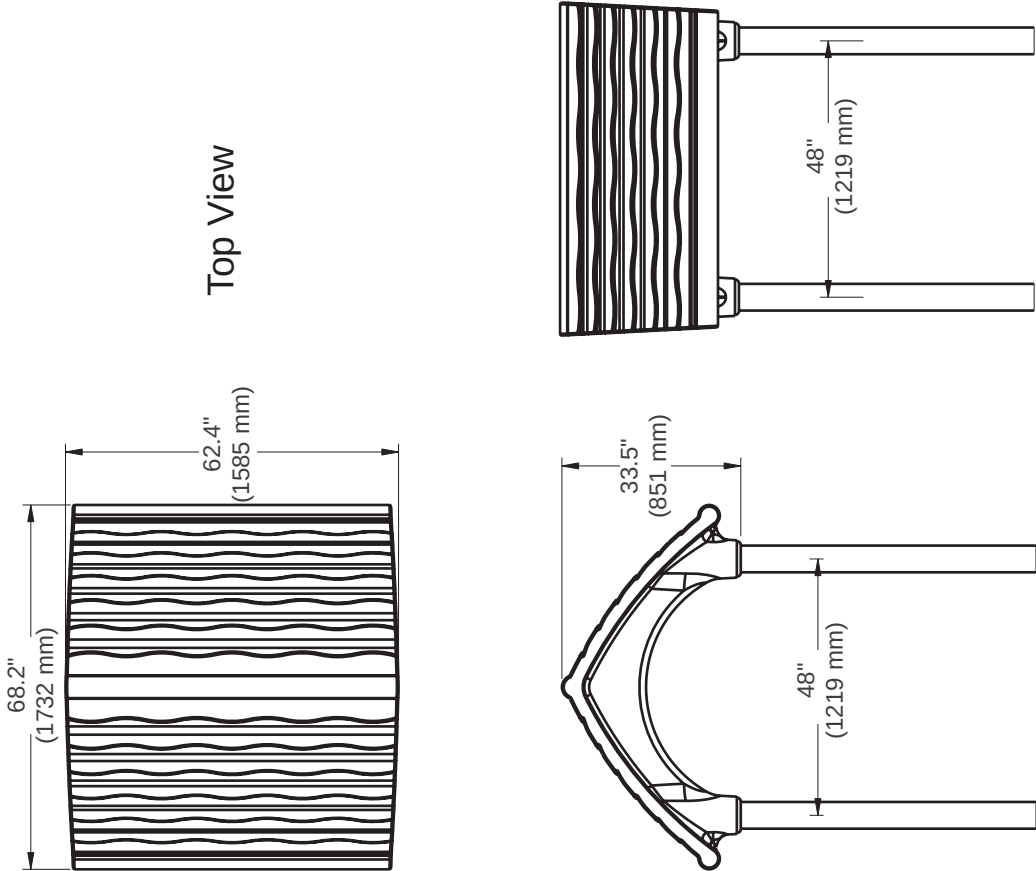
Installation Instructions Playmakers® Model PM9846 Cabana Roof

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

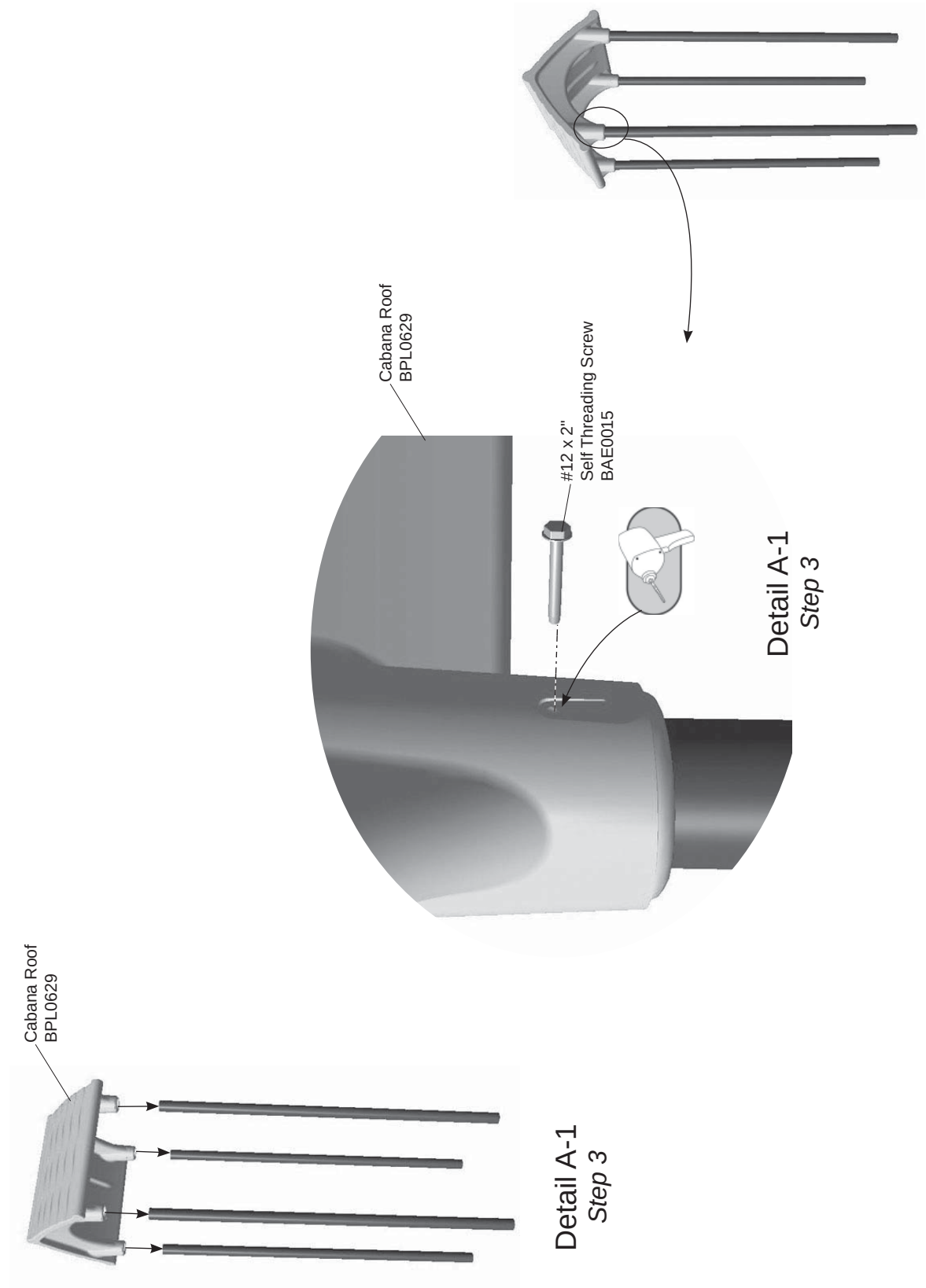


Elevation Views
ZZPM9846



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

___Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

___Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

___Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

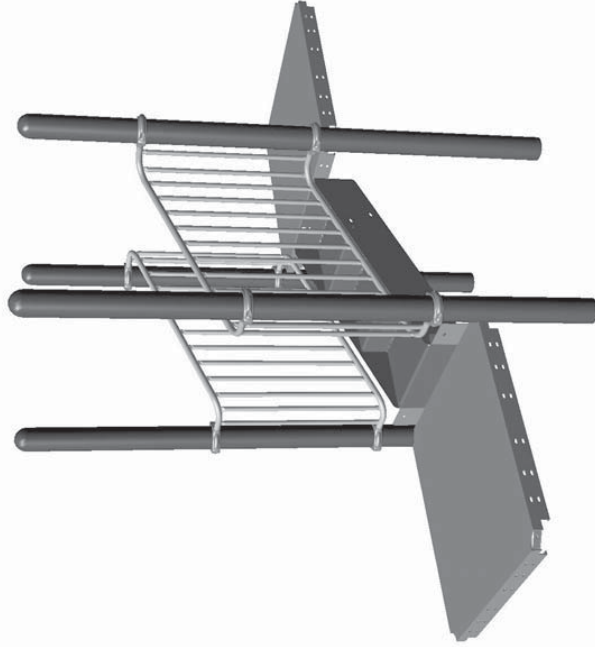
Bill of Materials

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Assembly View (24" (610 mm) shown)

Model	Rise Height	Weight
ZZPM9168	12" (305 mm)	106 lbs. (48.2 kg)
ZZPM9170	24" (610 mm)	228 lbs. (103.6 kg)
ZZPM9177	36" (915 mm)	338 lbs. (153.6 kg)

Installation Instructions

Playmakers® Models PM9168, 9170, 9177

Deck to Deck Accessible Tiered Platforms

12", 24", 36" (305, 610, 914 mm) Rise Height

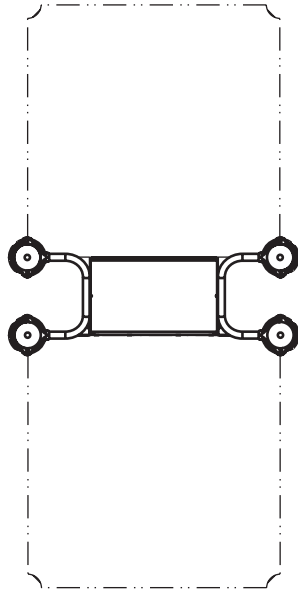
Installation Preparation

Recommended Crew: Two - Three (2-3) adults
 Installation Time: 2 man-hours
 Weight: refer to table
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

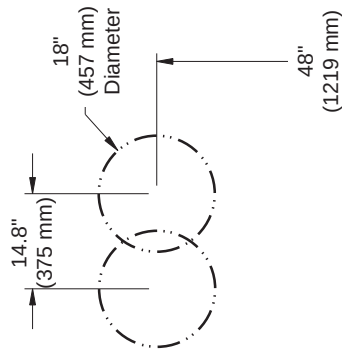
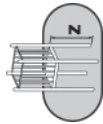
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Hammer
	Drill		Critical Fall Height

Installation Instructions

Top View



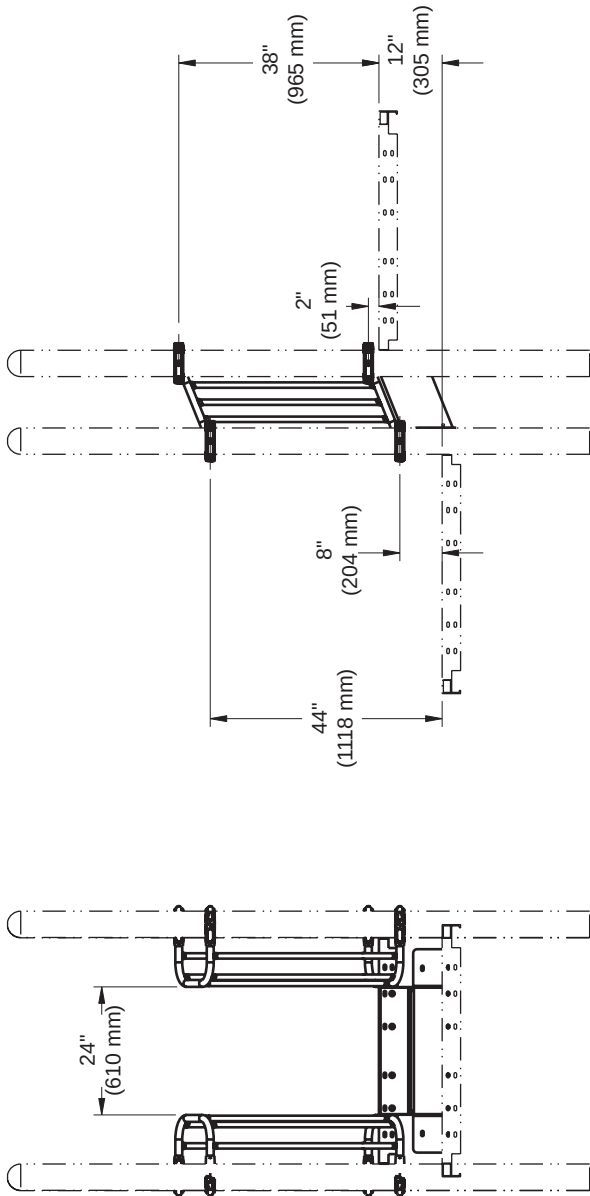
EN: Upper deck height



48" (1219 mm)

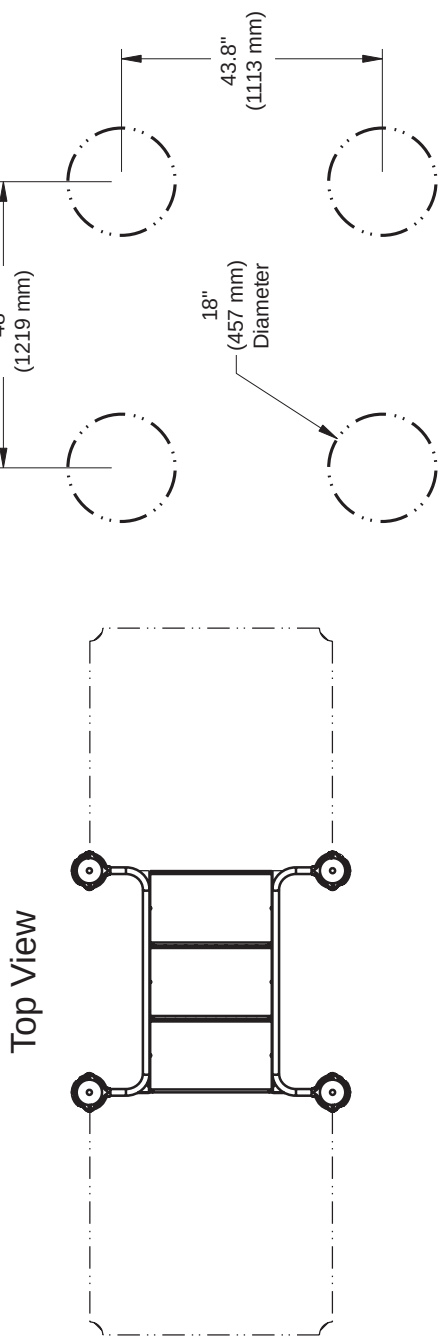


Footing Diagram

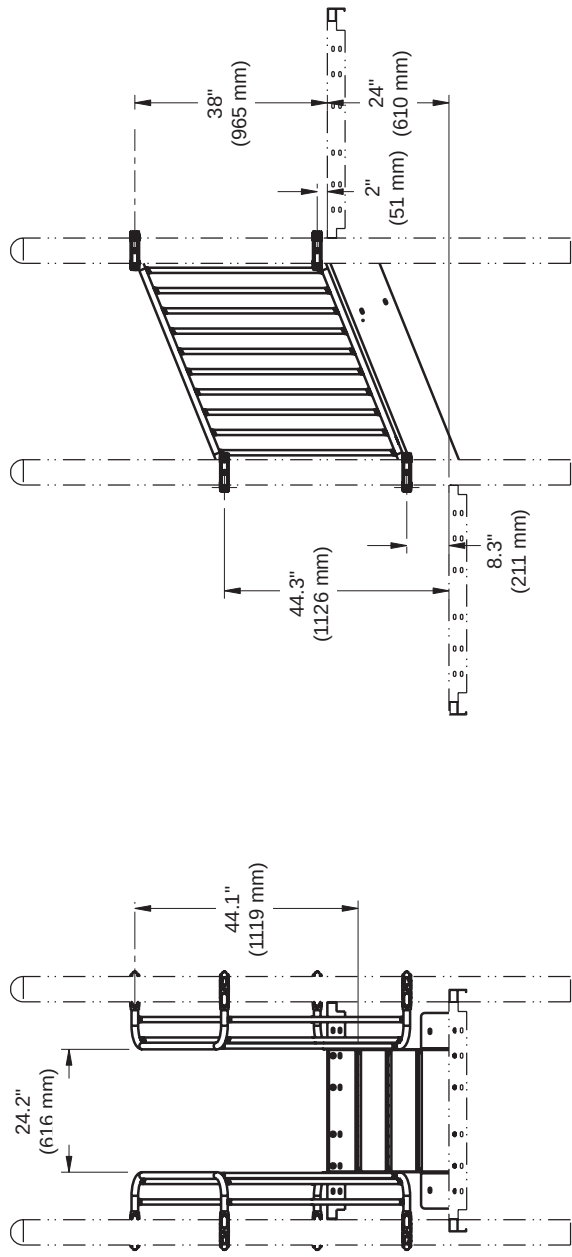


Elevation Views (12" (305 mm) rise)

Installation Instructions



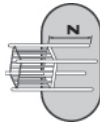
Footing Diagram



Elevation Views (24" (610 mm) rise)

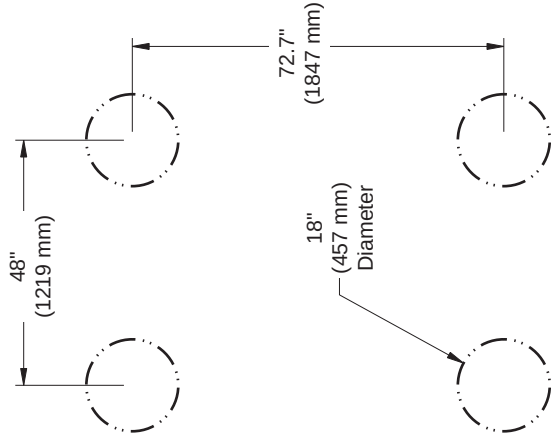
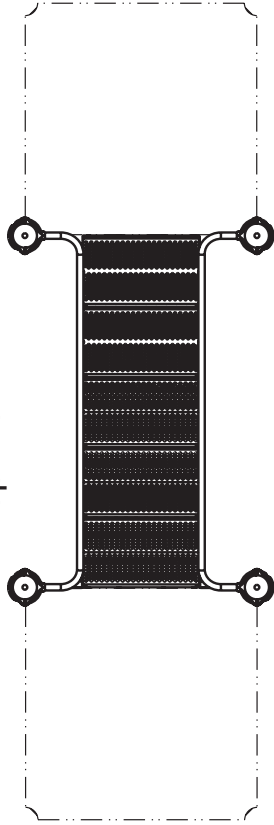


Installation Instructions

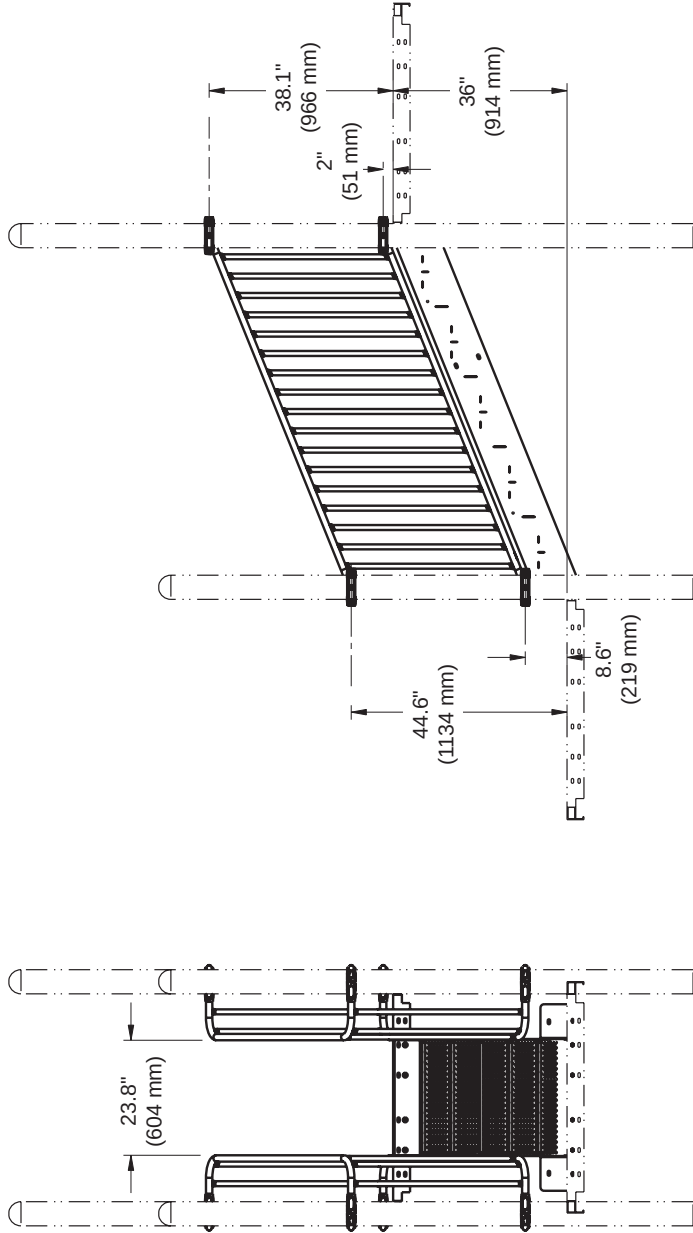


EN: Upper deck height

Top View



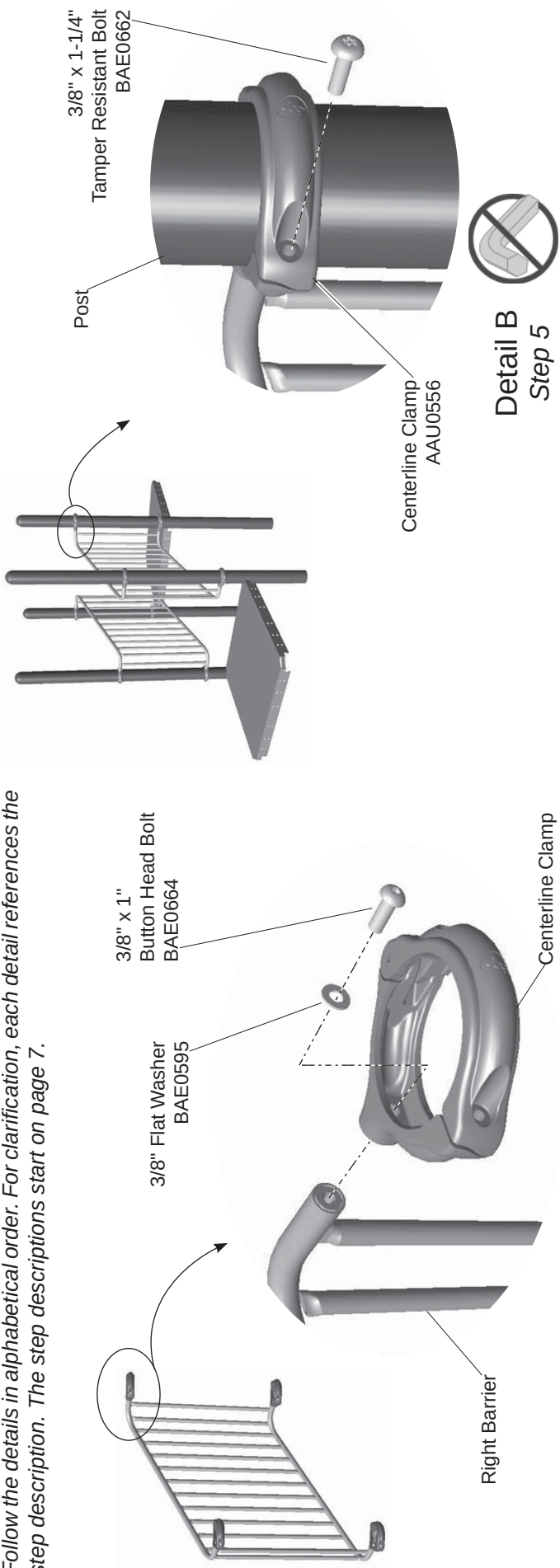
Footing Diagram



Elevation Views (36" (914 mm) rise)

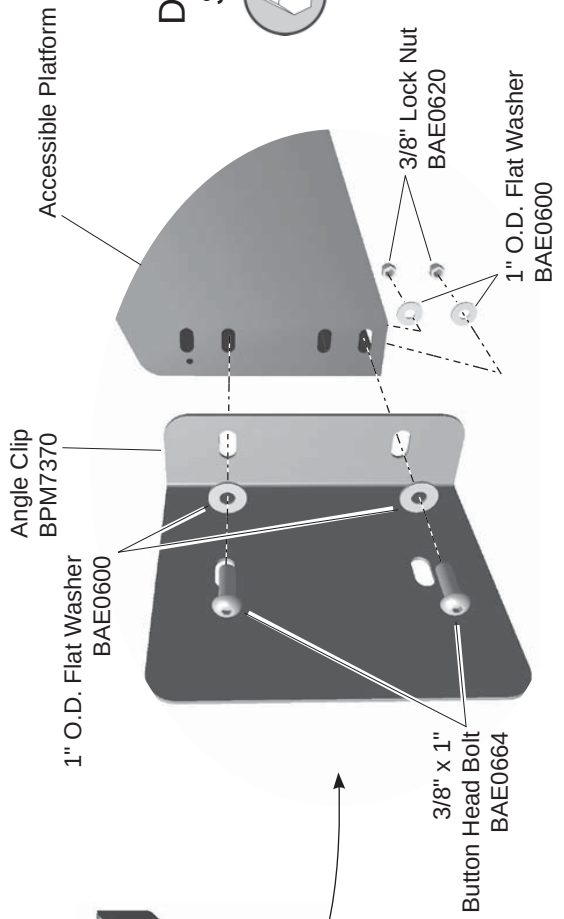
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A
Step 4

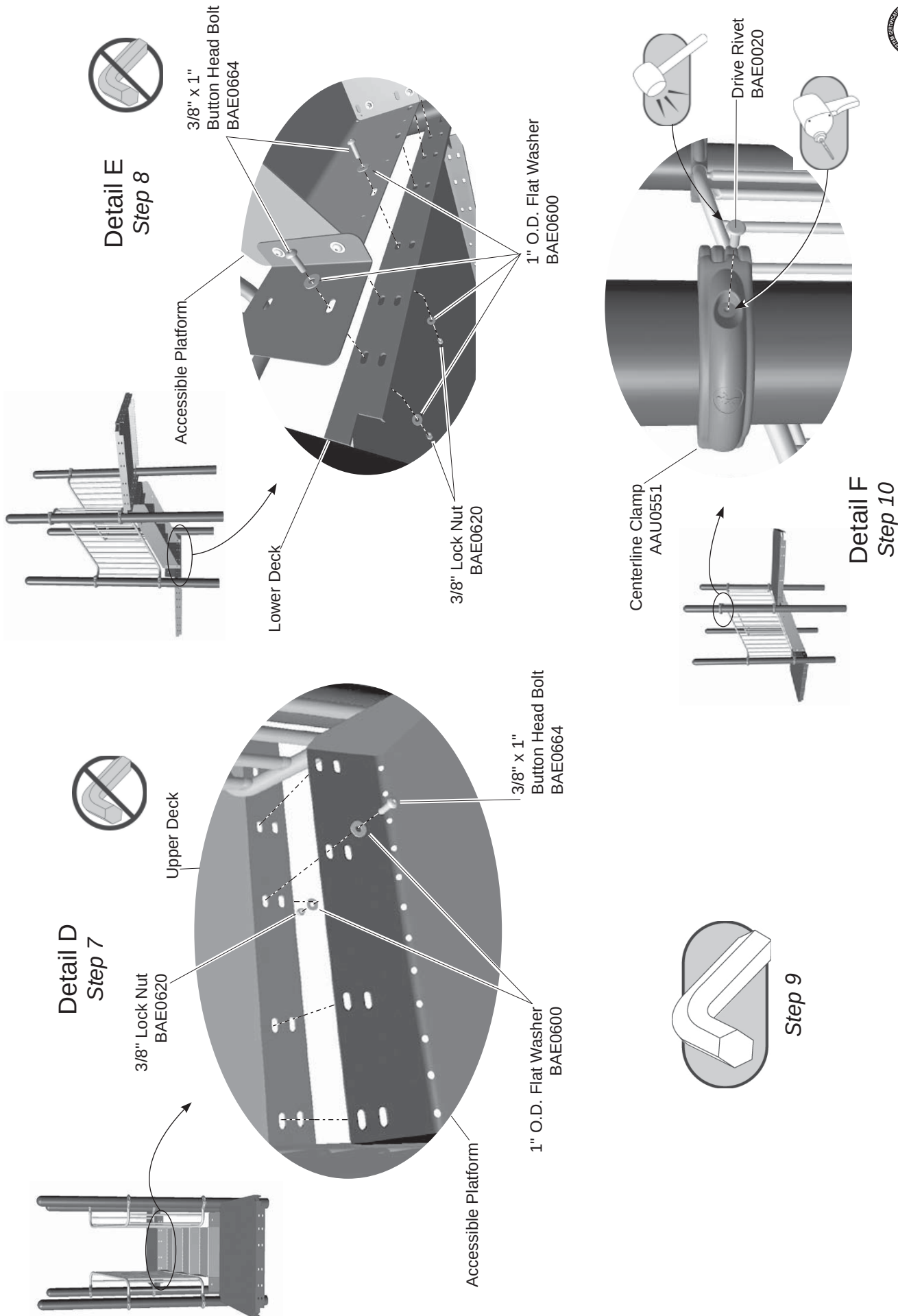
The front of angle clip should be even with the face of the platform



Detail C
Step 6

Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM7305
ZZPM9170	AEN0489 / AEN0490	BPM7315
ZZPM9177	AEN0491 / AEN0492	BPM7325

Installation Instructions



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Determine location of the platform by referring to the master layout drawing.

___ **Step 4:** Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

___ **Step 5:** Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

___ **Step 6:** Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

___ **Step 7:** Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

___ **Step 8:** Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

___ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

___ **Step 10:** Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7305	STAIR - 12" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7325	STAIR - 36" ACCESSIBLE COATED w/SMALL HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM7315	STAIR - 24" ACCESS COATED PERF w/SM HOLES	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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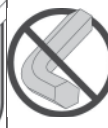
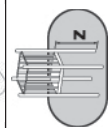
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

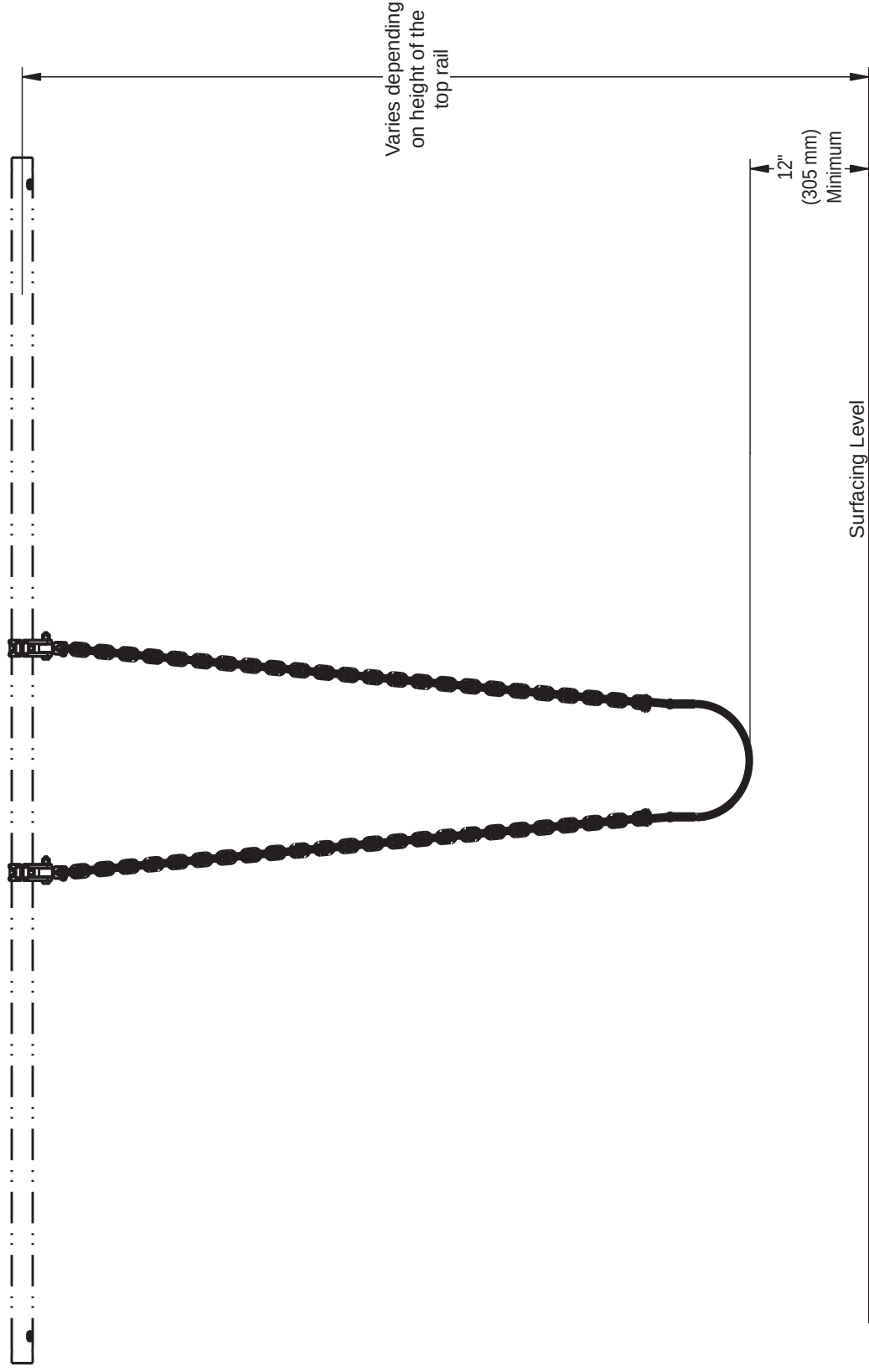
Installation Instructions Playworld Systems® Models XX0260, XX0261, & XX0324 Belt Seat with Galvanized Chain

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

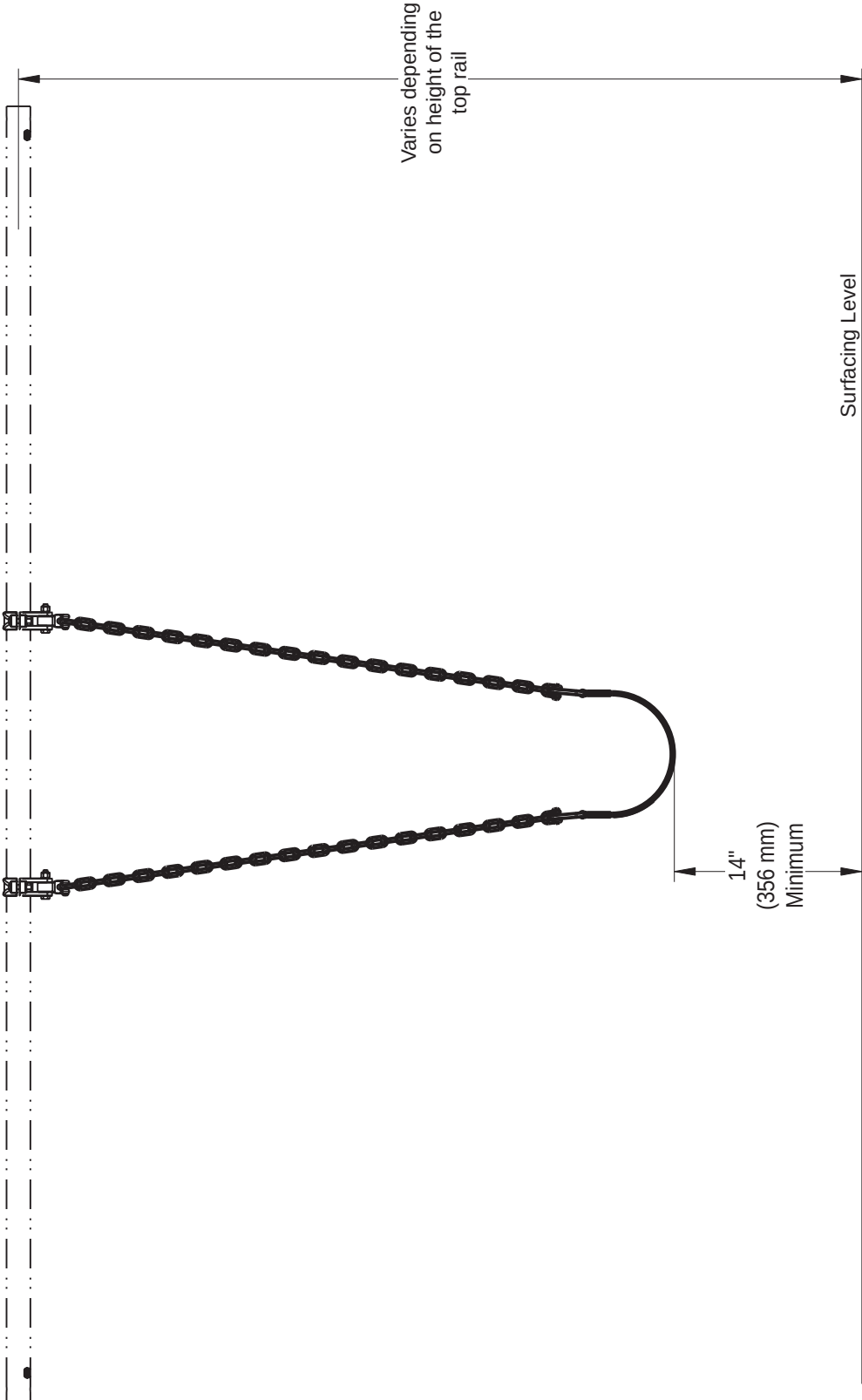


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



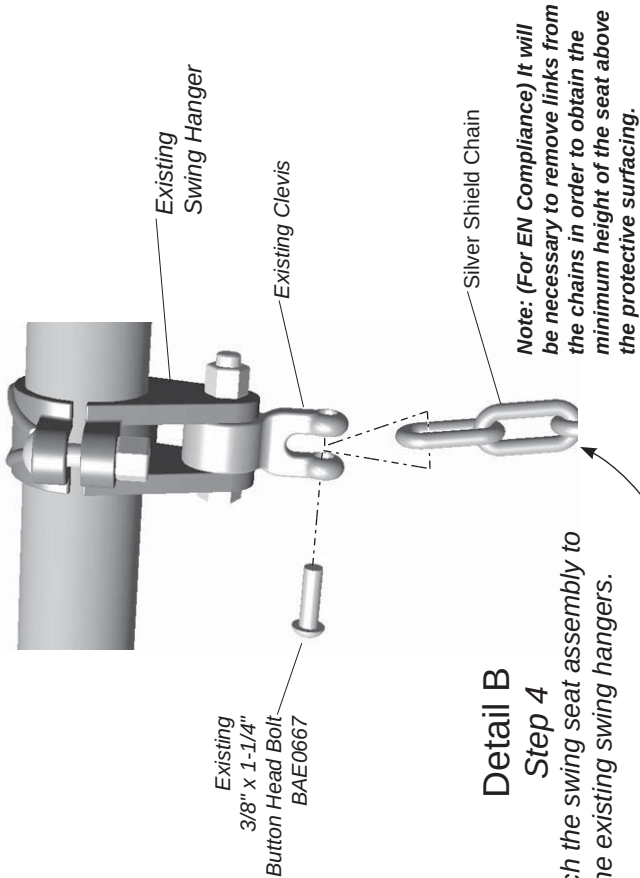
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



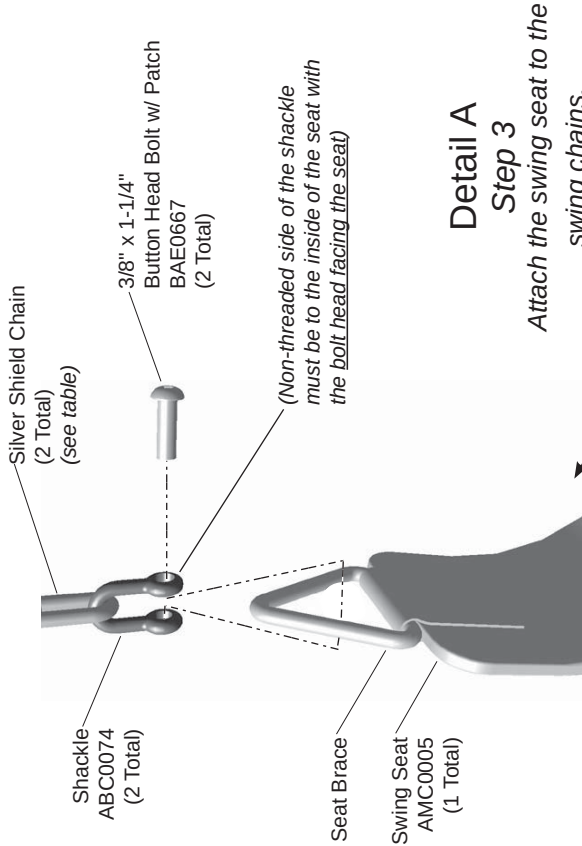
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



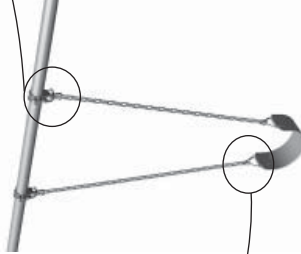
Detail B
Step 4

Attach the swing seat assembly to the existing swing hangers.



Detail A
Step 3

Attach the swing seat to the swing chains.



Model Number	Silver Shield Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.
Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH GALVANIZED CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH GALVANIZED CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH GALVANIZED CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261

Belt Seat with Galvanized Chain

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
 - To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

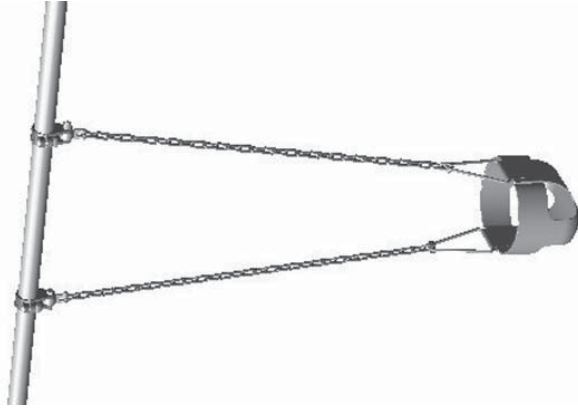
Date: ____ / ____ / ____





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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Galvanized Chain

Installation Preparation

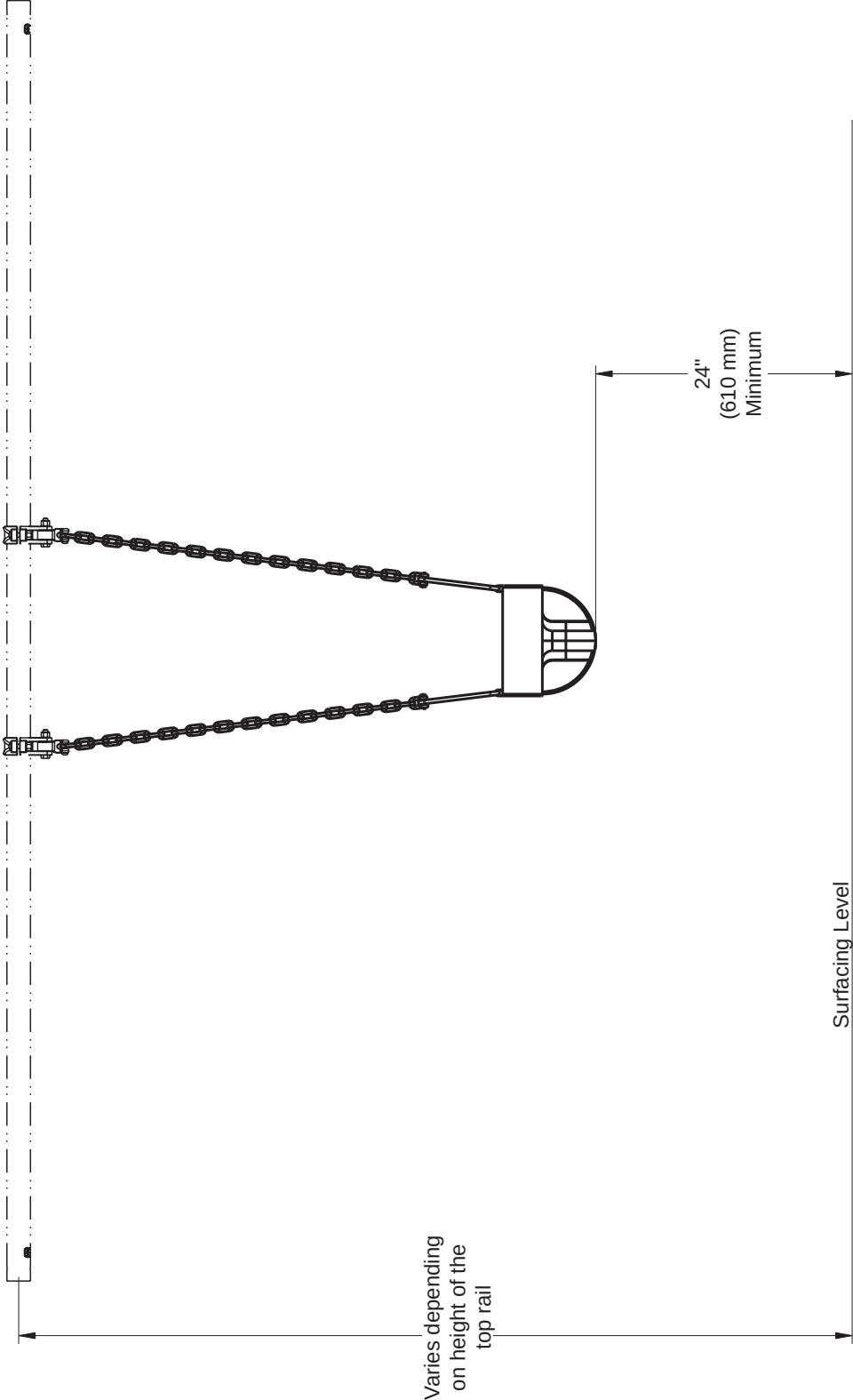
Recommended Crew:	One (1) adult
Installation Time:	0.25 hour
Weight:	See table below
Use Zone:	Refer to the swing frame instructions
User Group:	Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

Installation Instructions



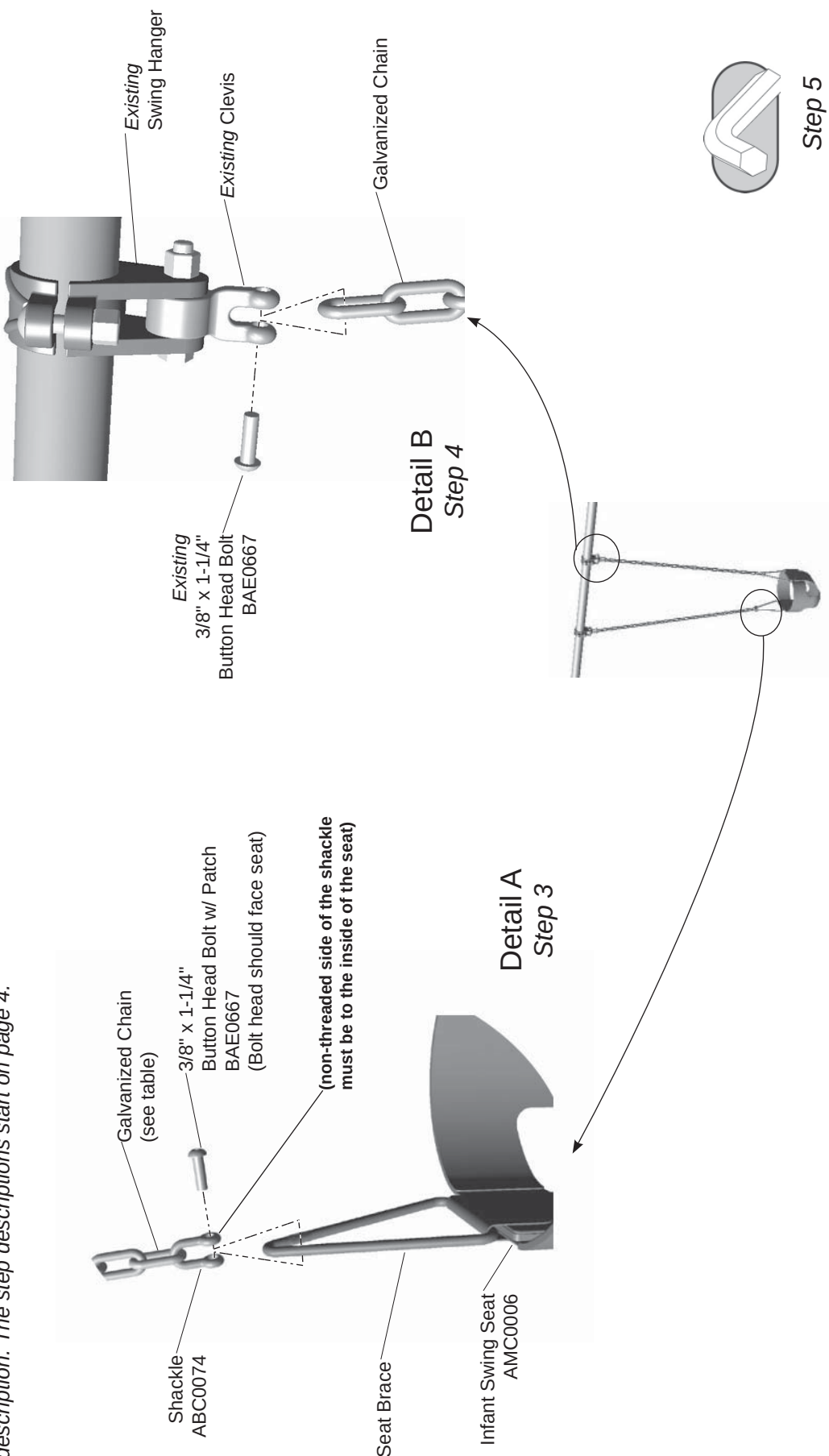
Elevation View

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Galvanized Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

___ **Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

___ **Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

___ **Step 5:** Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Bill of Materials

ZZXX0325 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH GALVANIZED CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 GALVANIZED	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1


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1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

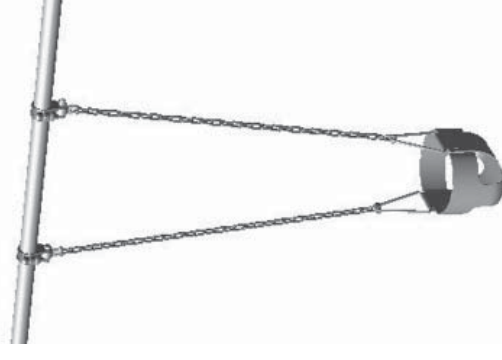
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®
Models XX0265, XX0266,
& XX0325
Infant Swing Seat with
Galvanized Chain



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

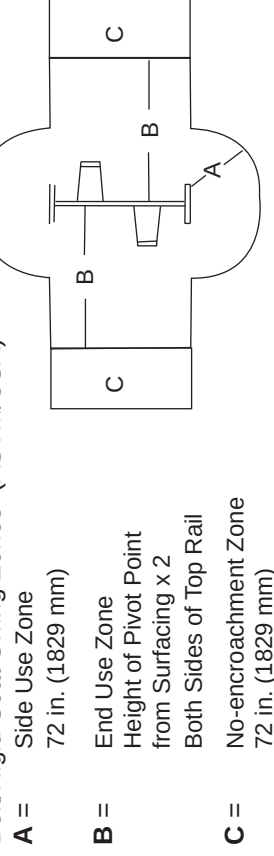
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

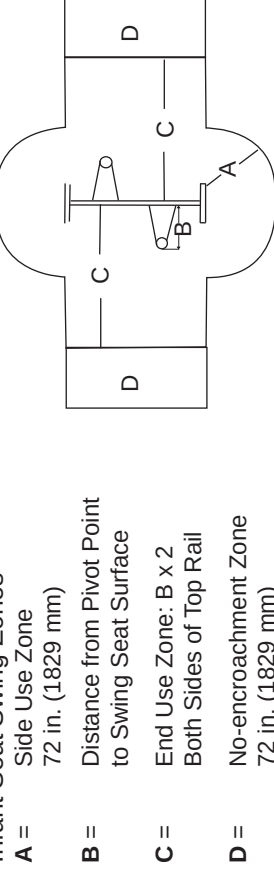
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones



Installation Instructions

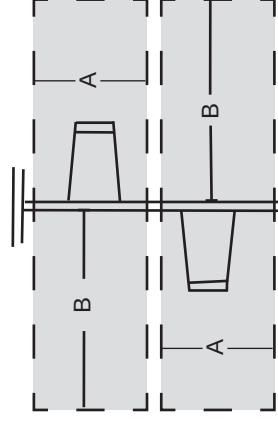
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

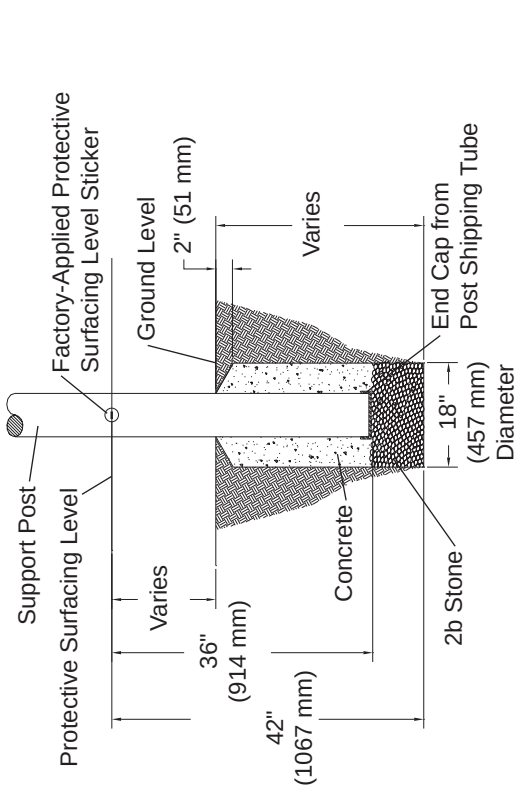
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

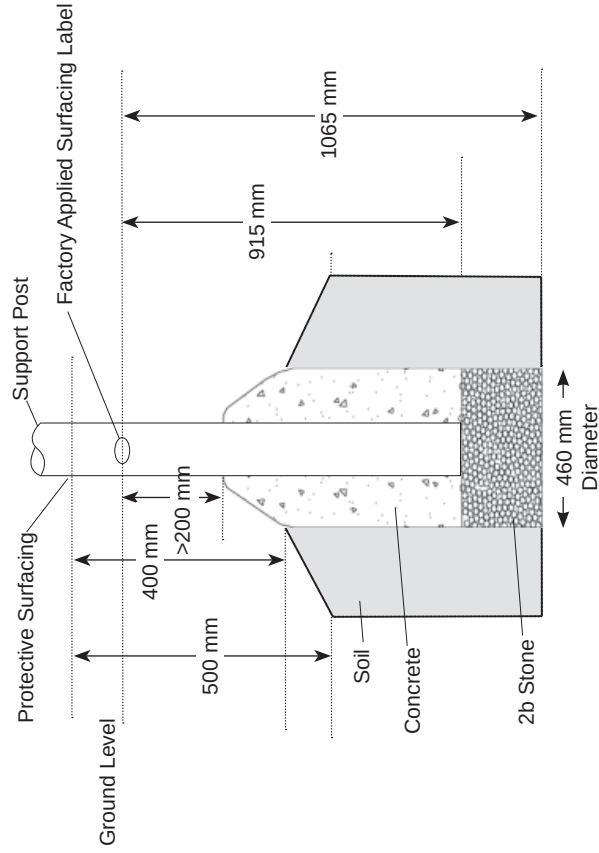
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

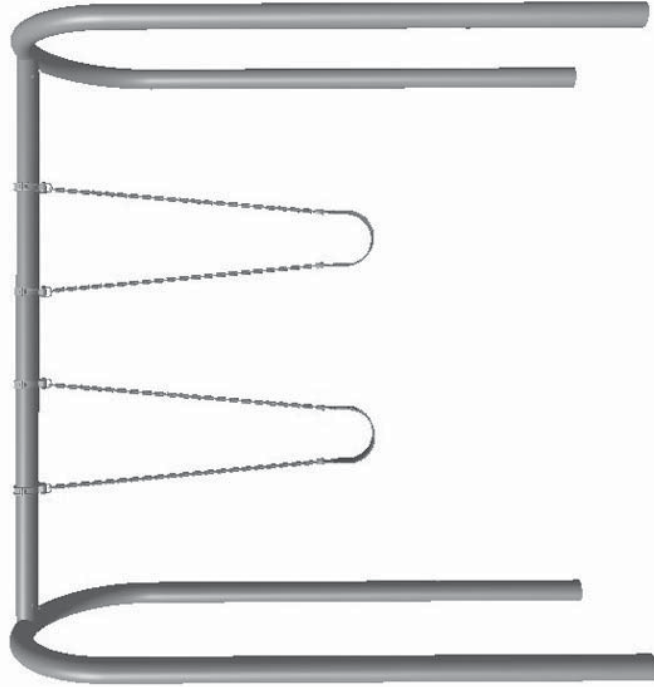
FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



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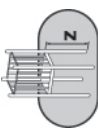
Assembly View (representative model)

Installation Instructions Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

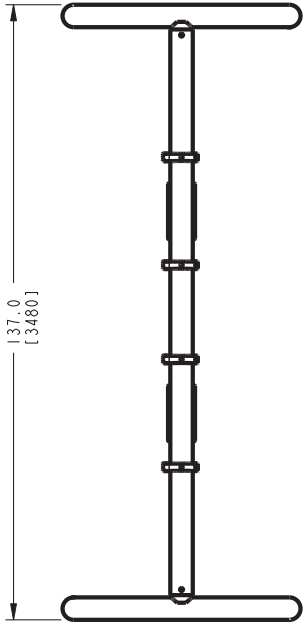
*Weights are approximate for determining manpower.

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

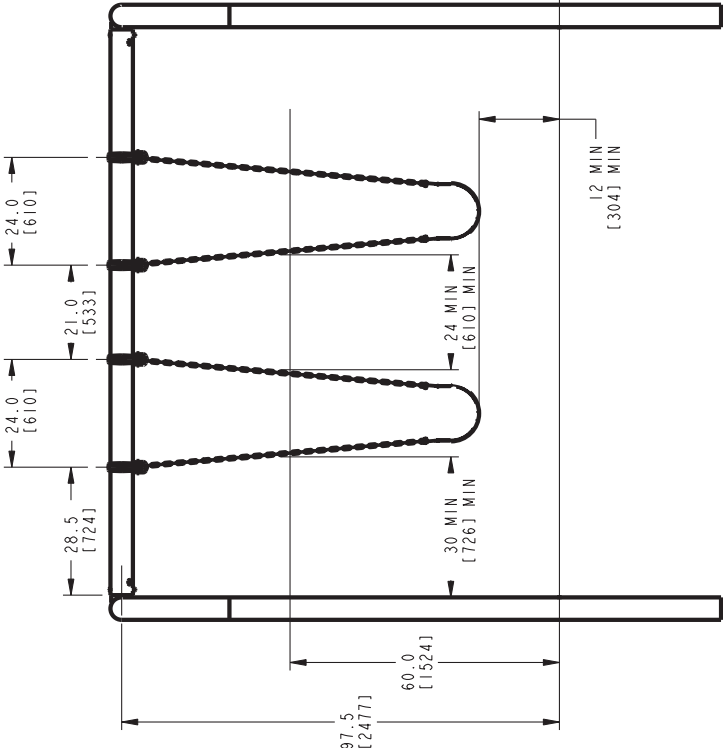
Installation Instructions

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

Top View



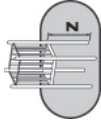
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views



Footing Diagram

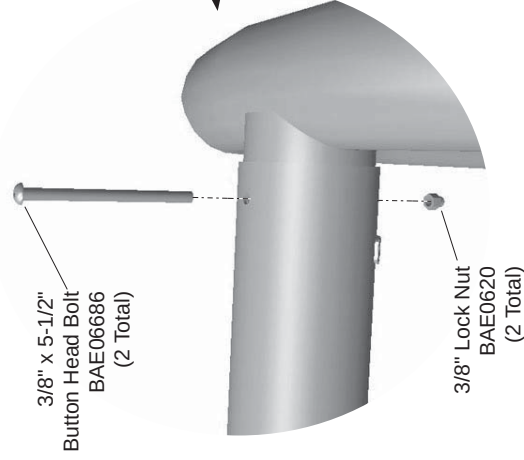
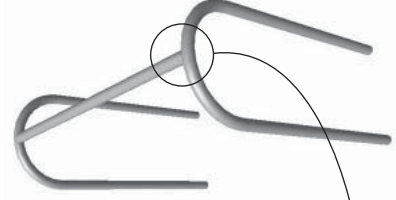
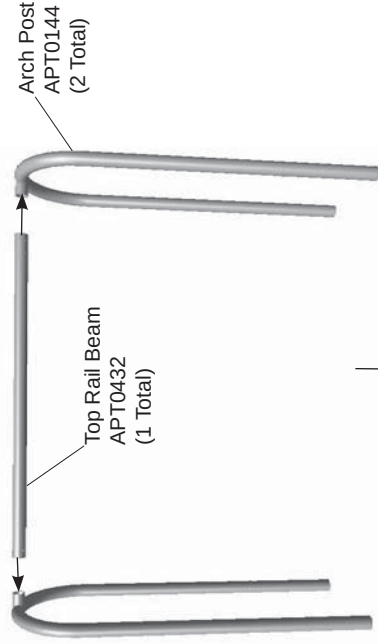


Critical Fall Height

EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

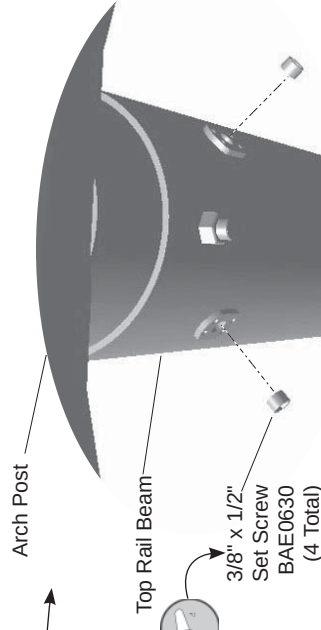
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A Step 4

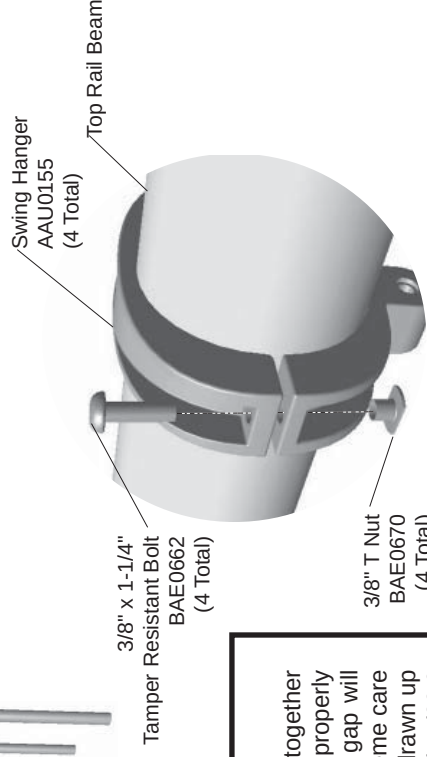
Attach the top rail to the arch posts.



Underneath View

Detail B Step 5

Secure the top rail to the arch posts.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 8



Attach swing hangers to the top rail.

CAUTION

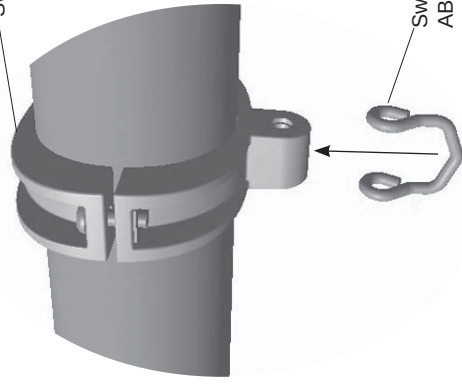
Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

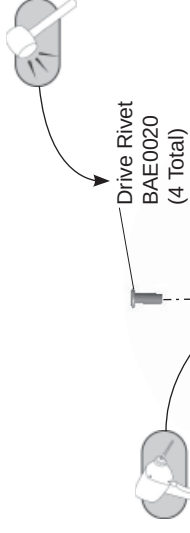
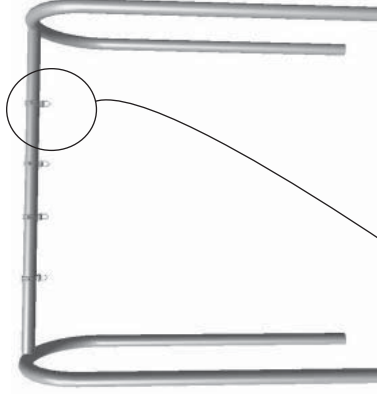
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Installation Instructions

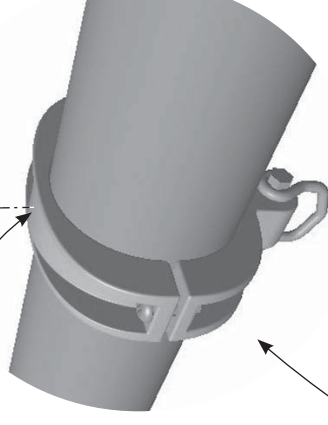
Swing Hanger



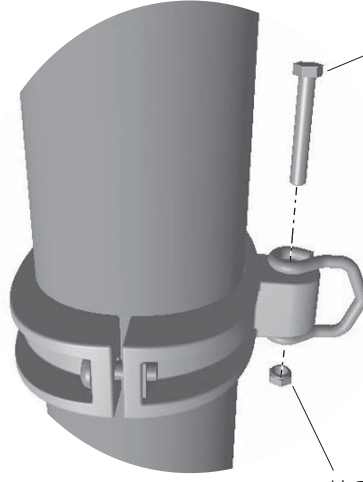
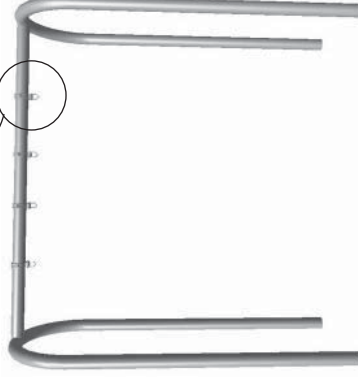
Swing Clevis Connector
ABC0704
(4 Total)



Drive Rivet
BAE0020
(4 Total)



Detail E
Step 12
*Secure the swing hangers
to the top rail.*



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 9

Attach each clevis to a swing hanger.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the top hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1


**PLAYWORLD
SYSTEMS®**

The world needs play.™

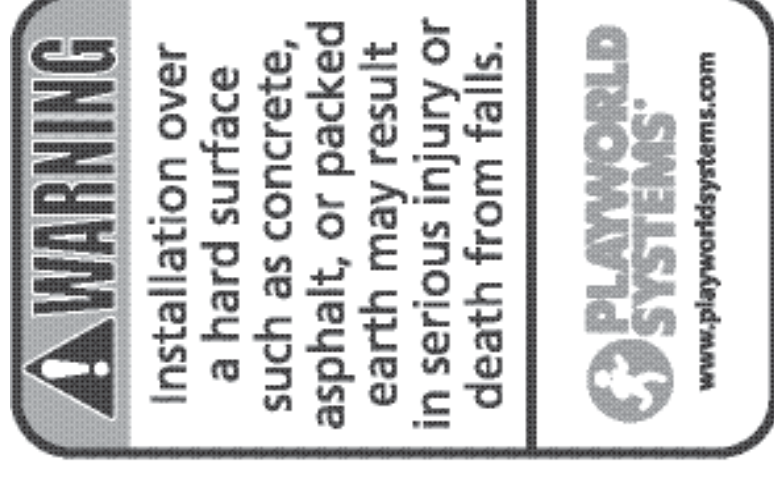
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
 - If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

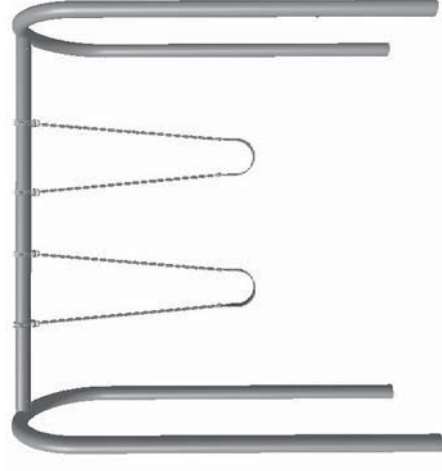
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0287

5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing

8 ft. (2438 mm) Top Rail



The world needs play.™

For Customer Service, Call

800-233-8404 or

570-522-9800 OUTSIDE U.S.

1000 Buffalo Road • Lewisburg, PA 17837

www.playworldsystems.com



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

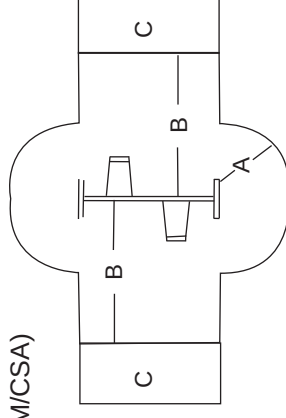
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and **may not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2

C = Both Sides of Top Rail
No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail **may not** be overlapped by the use zones of other play equipment.

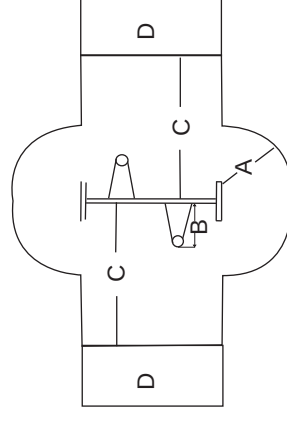
Infant Seat Swing Zones

A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

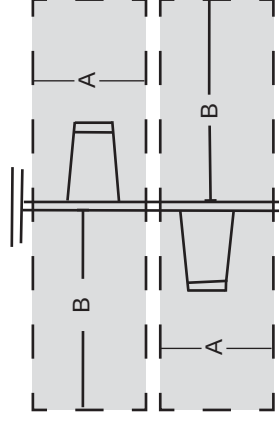
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing}$ is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

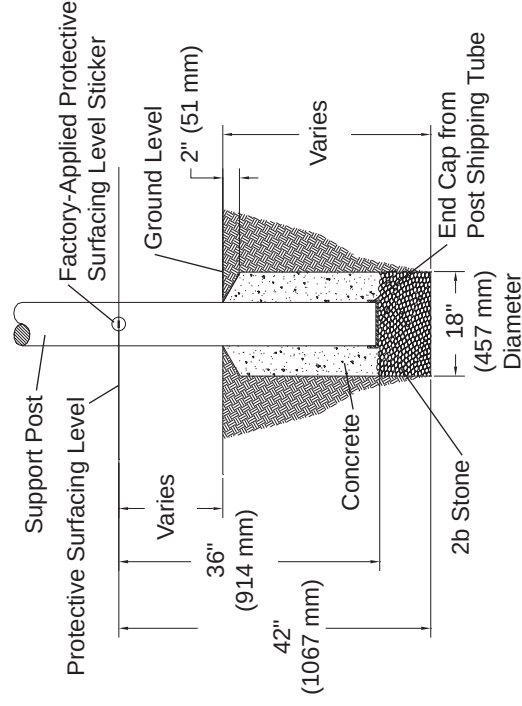
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

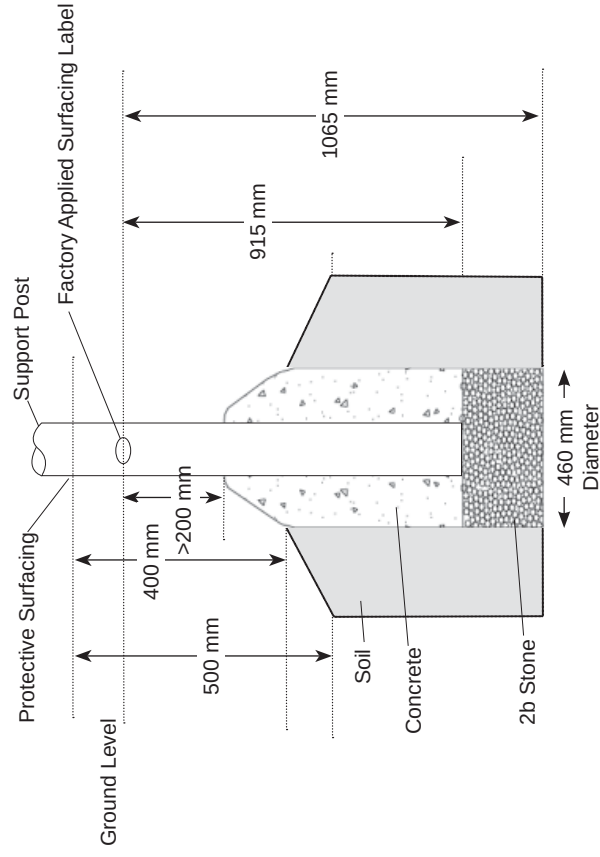
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

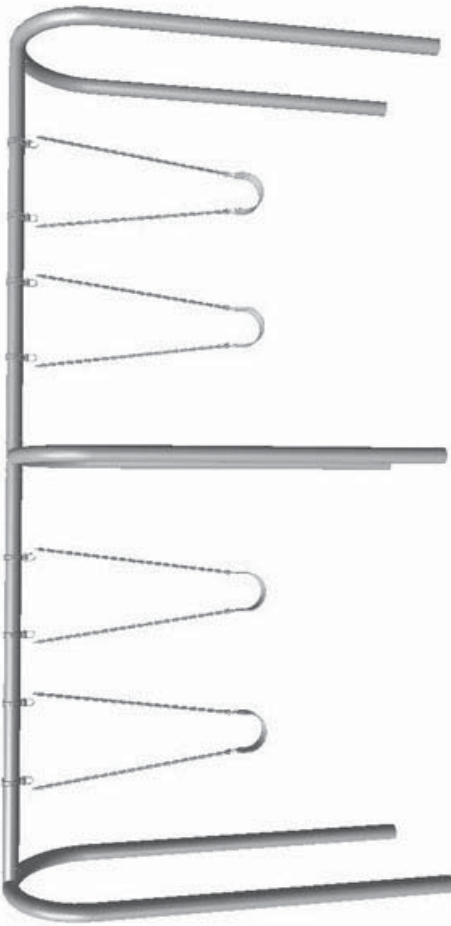
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems[®] Model XX0370

5 in. (127 mm) O.D. Aluminum Arch Swing

2-Unit Add-A-Bay

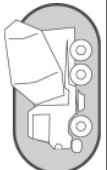
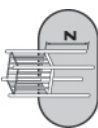


Assembly View

Installation Preparation

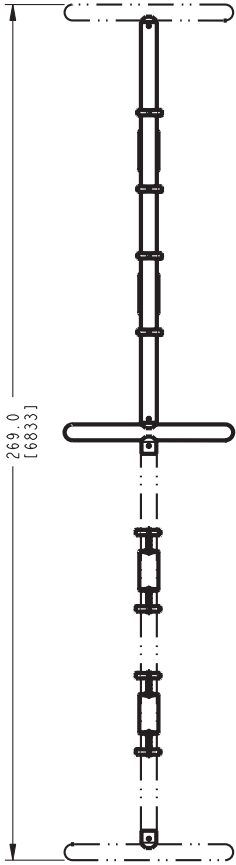
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Weight:	*156.2 lbs. (70,3 kg)
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:.....	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

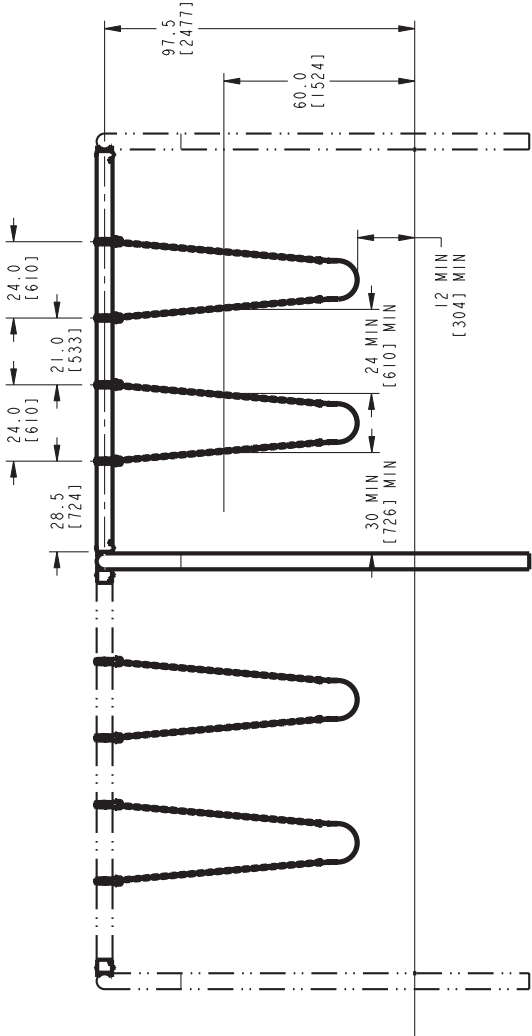
ICON KEY		
	Fully Tighten Hardware	
	Do Not Fully Tighten Hardware	
	Drill	
	Hammer	

KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	

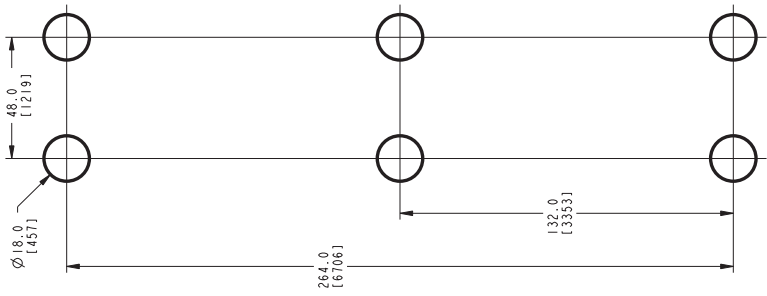
Top View



Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



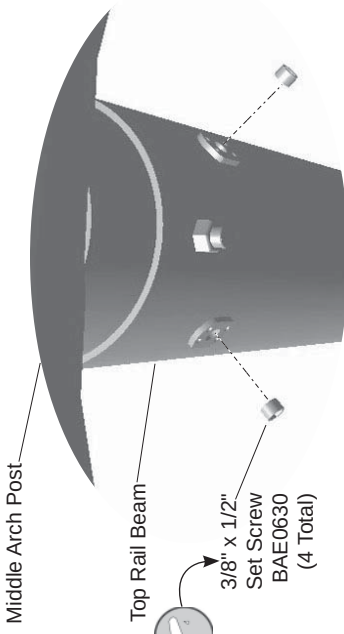
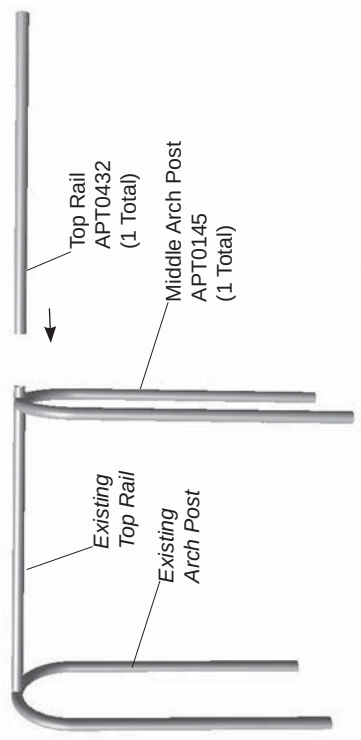
Elevation Views



Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

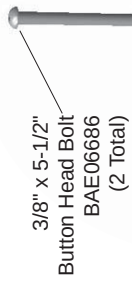
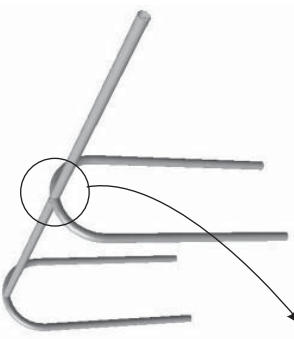


Underneath View

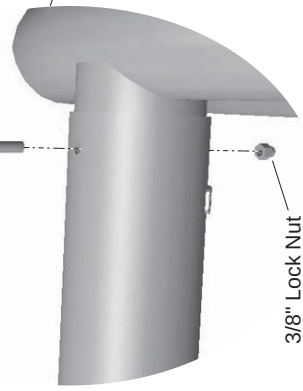
Detail B

Step 7

Secure the top rails to the middle arch post.



Middle Arch Post



Swing Hanger
AAU0155
(4 Total)

3/8" x 1-1/4"
Tampor Resistant Bolt
BAE0662
(4 Total)

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



Detail A

Step 5

Attach both top rails (new and existing) to the middle arch support.



Detail C

Step 10

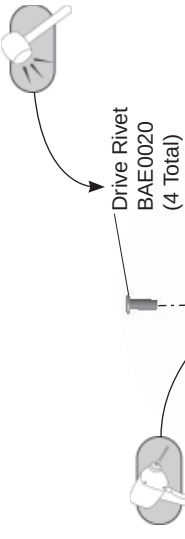
Attach swing hangers to the top rail.

When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

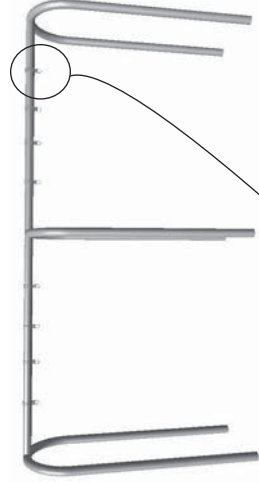


Installation Instructions

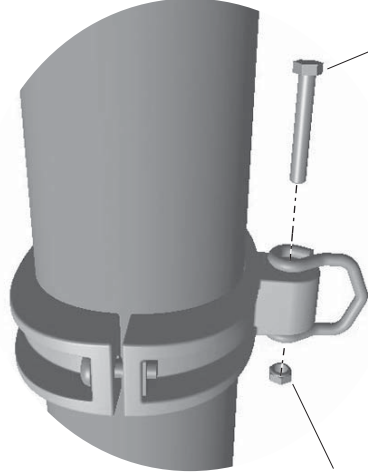
Swing Hanger



Drive Rivet
BAE0020
(4 Total)



Swing Clevis Connector
ABC0704
(4 Total)



3/8" Thin Series Lock Nut
BAE0610
(4 Total)

3/8" x 2-1/2"
Hex Head Shoulder Bolt
BAE0412
(4 Total)



Detail D
Step 11

Attach each clevis to a swing hanger.

Detail E
Step 14
Secure the swing hangers to the top rail.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of locite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

**PLAYWORLD
SYSTEMS®**

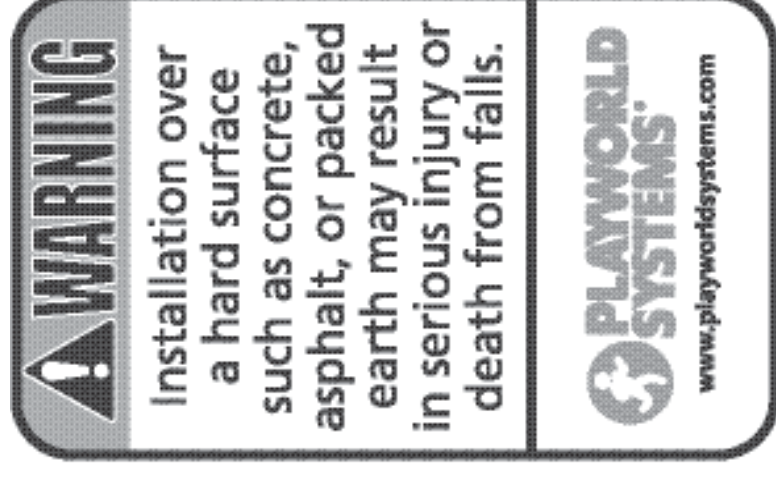
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
- Tightening torque specifications are:
- Bolts and Nuts:** Snug tighten and tighten an additional one-half turn.
- Set Screws:** Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
 - Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
- To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!

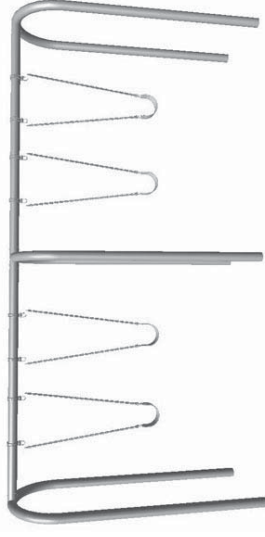
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

Equipment Maintenance

Playworld Systems® Model XX0370

5 in. (127 mm) O.D. 2-Unit

Aluminum Arch Swing Add-A-Bay



The world needs play.™

For Customer Service, Call

800-233-8404 or

570-522-9800 OUTSIDE U.S.

1000 Buffalo Road • Lewisburg, PA 17837

www.playworldsystems.com



Model XX0370

ECN2147

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

Inspector: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____

Signature: _____

Date: ____ / ____ / ____

