

BID OF \_\_\_\_\_

**2015**

**PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS**

**FOR**

**2015 PARK PLAYGROUNDS - GROUP 1**

**CONTRACT NO. 7473**

**PROJECT NO. 53w1918**

**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>





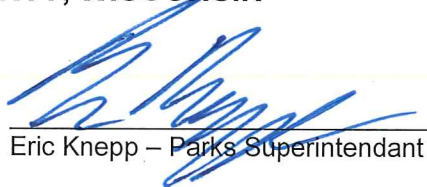
**2015 PARK PLAYGROUNDS - GROUP 1  
CONTRACT NO. 7473**

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This Proposal, and Agreement have  
been prepared by:

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

  
Eric Knepp – Parks Superintendant

EMK: MRS



## 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:	2015 PARK PLAYGROUNDS - GROUP 1
CONTRACT NO.:	7473
SBE GOAL	5%
BID BOND	5%
PRE BID MEETING (1:00 P.M.)	02/13/15
PREQUALIFICATION APPLICATION DUE (1:00 P.M.)	02/13/15
BID SUBMISSION (1:00 P.M.)	02/20/15
BID OPEN (1:30 P.M.)	02/20/15
PUBLISHED IN WSJ	01/30/15, 02/06/15 & 02/13/15

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](http://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](http://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](http://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](http://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/Installation  
262 ☒ Playground Installer  
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  
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](http://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](http://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](http://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](http://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 found non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may appeal that decision to the Small Business Enterprises Appeals Committee. All appeals shall be made in writing, and shall be delivered to and received by the City Engineer no later than 4:30 PM on the third business day following the bidder's receipt of the written notification of ineligibility by the Affirmative Action Division Manager. Postmark not acceptable. The notice of appeal shall state the basis for the appeal of the decision of the Affirmative Action Division Manager. The Appeal shall take place in accordance with Madison General Ordinance 33.54.

## 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.

**2015 PARK PLAYGROUNDS - GROUP 1  
CONTRACT NO. 7473**

**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

**2015 PARK PLAYGROUNDS - GROUP 1  
CONTRACT NO. 7473**

**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
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
<b>Subtotal SBE who are NOT suppliers:</b>		_____ %

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
<b>Subtotal Contractors who are suppliers:</b>		_____ % x 0.6 = _____ % (discounted to 60%)
<b>Total Percentage of SBE Utilization:</b> _____ %.		

**2015 PARK PLAYGROUNDS - GROUP 1  
CONTRACT NO. 7473**

**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.

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

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☐ 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.

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☐ 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.

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

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6. Describe any other good faith efforts:

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## SECTION D: SPECIAL PROVISIONS

### 2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473

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 102.10: 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 or Heavy Construction
- ☐ Sewer, Water, or Tunnel Construction
- ☒ Local Street or Miscellaneous Paving Construction
- ☐ Residential or Agricultural Construction

When multiple boxes are checked, worker's wages may vary according to the type and area of work performed. It is the responsibility of the Contractor to determine and apply the appropriate wage rate for the specific work assigned.

#### SECTION 102.1: PREQUALIFICATION OF BIDDERS

**The contract will be awarded to the lowest responsible bidder where either the General Contractor or their sub contractor, meet the requirements of category #262 Playground Installer. Work to be performed by prequalified category #262 Playground Installer, shall include (but not be limited to) BID ITEM 90001 – PLAYGROUND EQUIPMENT INSTALLATION.**

References for installation of a minimum of three public or private commercial playgrounds are required. (Question #29 on the Prequalification Application addresses this requirement).

General Contractors or sub contractors interested in pre-qualifying for category 262 shall complete and submit the Contractors Prequalification Application, and the Affirmative Action Plan packet by no later than 1:00 PM on Friday, February 13, 2015, to be considered for PW Contract #7473 Park Playgrounds – Group 1.

Submit Pre-Qualification Packet to:  
City of Madison Engineering Division Administrative Office  
Attention: Janet Pien  
210 Martin Luther King Jr. Blvd. Room 115  
Madison, WI 53701

To be sure of a complete application, please contact Janet at 608-266-4620 prior to submission of the pre-qualification packet.



If your company is currently prequalified to bid on City of Madison public works contracts, please submit an Amendment to Contractors Prequalification Application along with the required materials.

Prospective bidders can also download the prequalification application forms from the City's website: <http://www.cityofmadison.com/business/pw/forms.cfm>

**All Contractors are required to submit Form A: Section 102.1 General Contractor/Subcontractor Pre-qualification with their bid.** This form is available on BID EXPRESS under Section D: Subcontractor Pre-qualification Requirement. The Contractor can upload the form and submit on Bid Express along with the project bid, or the forms may be submitted as a hard copy along with a manual bid at 1:00 PM at the Emil St. Engineering office the day the bids are due.

If the Contractor fails to provide this form within the guidelines described above the Contractor's proposal will be considered non-responsive.

Proposals that do not meet these requirements will be rejected as defined in Section 102.6 of the latest edition of the City of Madison Standard Specifications for Public Works Construction.

Questions relating to prequalification application may be directed to Janet Pien, City Engineering Division, by phone at (608) 266-4620, or email [japien@cityofmadison.com](mailto:japien@cityofmadison.com).

#### **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 \$55,500 for a single trade contract; or equal to or greater than \$271,500 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 and associated site and playground amenities, under drain and paths 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 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 2015 Park Playgrounds – 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](mailto: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 to this contract.

**SECTION 105.13: ORDER OF COMPLETION**

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

1. Flad Park, 4937 Flad Avenue, Madison, 53711
2. High Point Park, 7499 Watts Road, Madison, 53719
3. Waltham Park, 2617 Waltham Road, Madison, 53711
4. Stevens Street Park, 2710 Stevens Street, Madison, 53705

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 107.7: MAINTENANCE OF TRAFFIC**

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 Thomas Mohr, Traffic Engineering Division, 267-8725, with any questions concerning these traffic control specifications.

#### **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, 107.13(b) Curb Excavation and Installation, and 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 where construction operations, including grading, stone placement, filling, etc. occur within 5 feet of the trunk, construction operations near these trees shall be done under the supervision of a City of Madison Forestry Representative. The sequence to construct in these areas shall be as follows:

1. Trees within 5' of construction operations shall not be disturbed until inspected by a City of Madison Forestry Representative.
2. The Contractor shall place a yellow ribbon around the tree 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.

Protection of these trees shall be paid under Bid Item 10800 – Root Cutting.

#### **SECTION 108.2: PERMITS**

The following permits have been 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 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 2015 Park Playgrounds – Group 1 shall start on or around 04/20/2015 and shall be completed by 08/07/2015.

#### **BID ITEM 10701 – TRAFFIC CONTROL**

##### **DESCRIPTION**

Construction at Flad Park, shall not require a Traffic Control Plan, but will require a Maintenance of Traffic special provision. The Contractor shall post "ROAD WORK AHEAD" signs on streets adjacent to playground construction, in both directions of traffic, and in advance of construction.

Construction at High Point Park and Waltham Park does not require a Traffic Control Plan or a Maintenance of Traffic special provision.

Construction at Stevens Street Park shall require a Traffic Control Plan per the Maintenance of Traffic special provision.

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 Engineer. 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 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 which shall be paid for under BID ITEM 20103 EXCAVATION CUT – PEA GRAVEL. Excavation cut shall be in accordance with Article 201 of the City of Madison Standard Specifications for Public Works Contracts.

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

Any additional undercut required due to field conditions shall be paid for at the Excavation Cut unit bid price.

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

**Final playground subgrade must be within +/- 1". The Contractor shall contact the Engineer to proof subgrade prior to installation of fabric over playground subgrade.**

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 shall be measured by the cubic yard quantity as listed in the proposal page 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 as identified on the plans per Article 201 of the City of Madison Standard Specifications for Public Works Construction.

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.

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.

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 measured by the cubic yard quantity as listed in the proposal page 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 filter fabric sock as shown on the plans or as directed by the Engineer.

Drain pipe shall pitch at a minimum 0.5% slope in a bed open graded base course 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). Installation of the secured mitered drain grate, stone, filter fabric sock, 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 be responsible for staking horizontal and vertical alignment of drain tile. The Contractor shall contact City of Madison Parks Surveyor, Dan Rodman at 209-7012 at least 48 hours prior to field check under drain elevations prior to backfilling.**

##### **METHOD OF MEASUREMENT**

Under Drain shall be measured by the linear foot quantity determined in the field.

##### **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 accordance with the manufacturer's recommendations, or as modified or approved in the field to accommodate the underlying play equipment. The Contractor shall provide to the City the manufacturer's recommended staple pattern.

### **METHOD OF MEASUREMENT**

Geotextile Fabric Type SAS Non Woven shall be measured by the square yard quantity as listed in the proposal page without measurement thereof, 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 import and distribute fill to meet proposed subgrades. Fill shall comply with material described in Article 202 of the City of Madison Standard Specifications for Public Works Construction.

The fill quantities for this contract have been 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).

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

### **METHOD OF MEASUREMENT**

Fill shall be measured by the cubic yard quantity as listed in the proposal page without measurement thereof.

### **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 – CONSTRUCTION ENTRANCE 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 by the ton as listed in the proposal page without measurement thereof.

### **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 place topsoil to meet proposed grades. Topsoil shall comply with Article 202 of the City of Madison Standard Specifications for Public Works Construction..

Stripped topsoil can be stockpiled on site within the construction fence boundary. Estimated stripped topsoil quantities are identified in the Plans under Design Calculations. Double handling of stockpiled topsoil is incidental to this bid item.

Any additional topsoil material required beyond the stripped quantity is incidental to this bid item.

Excess material shall be disposed offsite at a location to be determined and provided by the City and is incidental to BID ITEM 20101 EXCAVATION CUT. The location shall be within the City of Madison.

**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.**

The topsoil quantities for this contract have been 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.

### **METHOD OF MEASUREMENT**

Topsoil shall be measured by the square yard quantity as listed in the proposal page without measurement thereof.

### **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 on all disturbed areas including areas damaged by construction activities, in accordance with Article 207 of the City of Madison Standard Specifications for Public Works Construction. 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 Playground Construction Inspector shall be called to inspect and approve the finish grade prior to seeding and mulching.**

**Contractor is responsible for obtaining seed bed germination per Article 207 of the City of Madison Standard Specifications for Public Works Construction, regardless of site conditions.**

### **METHOD OF MEASUREMENT**

Terrace Seeding shall be measured by the square yard quantity as listed in the proposal page without measurement thereof.

### **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 (8 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 (8 inch) – Complete, shall be measured by linear foot for the completed work as described above.

### **BASIS OF PAYMENT**

Silt Sock (8 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**

### **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 Construction, except the Contractor shall note that special care with anchorage devices shall be required so as to not injure park users. 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.

For clarification purposes Class I Urban Type A mats shall be designated ORGANIC to ensure provision of a product with 100 percent biodegradable matting, netting, and stitching. Photodegradable is NOT equivalent to biodegradable. Products listed in the PAL as Class I Urban Type A are all 100 percent biodegradable, and therefore do not need to be designated ORGANIC.

### **Photobiodegradable matting is not allowed.**

Anchorage devices shall be completely biodegradable. 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.

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

Trimming of the Erosion Matting, Class I Urban Type A as 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 as listed in the proposal page without measurement thereof, not including run out and overlap.

### **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 under BID ITEM 20701 – TERRACE SEEDING.

## **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 paths, except for where the path extends into the playground.**

**The Contractor shall contact Dan Rodman at 209-7012 at least 48 hours prior to proof subgrade elevations prior to paving.**

#### **METHOD OF MEASUREMENT**

Crushed Aggregate Base Course Gradation No. 2 shall be measured by the plan ton quantity as listed in the proposal page without measurement thereof.

#### **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.

### **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.

Asphalt edge at playground shall be constructed per Sheet 5.2.

#### **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.

### **BID ITEM 40401 – 5 INCH DEPTH CONCRETE PAVEMENT**

#### **DESCRIPTION**

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to provide and install 5 inch concrete pavement in accordance with these plans and specifications and the latest edition of the City of Madison Standard Specifications for Public Works Construction.

Pavement control joints shall match the pattern shown in the Plans.

Concrete edge at playground shall be constructed per Sheet 5.3.

#### **METHOD OF MEASUREMENT**

5 Inch Depth Concrete Pavement shall be measured by the square yard as listed on the proposal page.

#### **BASIS OF PAYMENT**

5 Inch Depth Concrete Pavement 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 90000 - CONSTRUCTION FENCE (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. 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 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 plan linear foot quantity as listed in the proposal page without measurement thereof.

### **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 off-loading, loading, and trucking as needed. Contractor is responsible for storing all equipment, securing all deliveries and insuring the completeness of the playground equipment order prior to installation. Original packing slips from each shipment shall be provided to the Engineer.**

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

The Contractor shall contact the City of Madison Playground Construction Inspector both prior to installation to coordinate exact date for playground installation and after installation is complete to verify correct layout.

All installation of equipment shall adhere and conform to the installation specifications as provided by the playground manufacturer, and shall be further inspected by the City of Madison Playground Construction Inspector and manufacturer 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. Actual layout of play system and components to be installed shall comply with that shown in the plans and be confirmed in the field the City of Madison

Playground Construction Inspector (225-0810) and Dan Rodman (209-7012), the City of Madison Parks Surveyor. Please allow 48 hours to schedule.

The playground shall be installed to 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 Installation Instructions for each park.**

The Contractor shall contact the City of Madison Parks Surveyor 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 for the completed work as described above.

#### **BASIS OF PAYMENT**

Playground Equipment Installation shall be measured as described above and shall be paid 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. Playground equipment concrete footing installation, materials and excavation are incidental to this bid item.

#### **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 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 Contractor's pre-determined receiving location. The Contractor shall provide equipment and labor for off-loading, loading, and trucking as needed. Contractor is responsible for storing and securing all deliveries and insuring the completeness of the playground timber order prior to installation. Original packing slips from each shipment shall be provided to the Engineer.**

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

The Contractor shall contact the Parks Surveyor throughout installation to verify that playground timbers are installed at the correct horizontal and vertical location.

##### **METHOD OF MEASUREMENT**

Playground Timbers shall be measured per each playground timber as listed in the proposal page without measurement thereof.

## **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 to 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 by the cubic yard quantity as listed in the proposal page without measurement thereof.

## **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 Hill Cemetery, 1 Speedway Road, depending upon available storage area. These facilities are open 7:30 am to 2:00 pm for Contractor pickup. 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 playground surfacing rubber mulch order prior to installation.**

The playground surfacing shall be installed to 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 by the cubic yard quantity as listed in the proposal page without measurement thereof.

## **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 – BARK MULCH MAINTENANCE BORDER**

### **DESCRIPTION**

This work shall include all material, labor and equipment necessary to install an 18 inch wide wood mulch bed at the base of the decorative fencing installed at Stevens Street Park. Wood mulch shall be shredded hardwood bark mulch placed to a depth of 3-4 inches. Prior to installing mulch, bed edge shall be spade cut to a depth of 6 inches at a 45 degree angle when adjacent to lawn. Bark mulch shall be free of objectionable foreign material and in accordance with the Article 209 of the City of Madison Standard Specifications for Public Works Contracts.

### **METHOD OF MEASUREMENT**

Bark Mulch Maintenance Border shall be measured in cubic yards as listed in the proposal page.

### **BASIS OF PAYMENT**

Bark Mulch Maintenance Border 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. No payment shall be given for changes in quantities listed in proposal page.

## **BID ITEM-90006 REMOVE BLOCK RETAINING WALL**

### **DESCRIPTION**

Work under this item shall include all work, materials, labor, disposal and incidentals required to remove and dispose of the existing block retaining wall.

The maximum above ground height of the wall is approximately 3' high. The depth of wall below the ground is unknown. Removal and disposal of wall below ground is incidental to this bid item. Excavation Cut and Fill related to removal of the existing block retaining wall shall be paid separately under BID ITEM 20101 – EXCAVATION CUT and BID ITEM 20201 - FILL.

Excavation and disposal of block retaining wall is incidental to this bid item. All block retaining wall is to be disposed of offsite, at a location to be determined and provided by the Contractor, at no extra charge to the City.

### **METHOD OF MEASUREMENT**

Remove Block Retaining Wall shall be measured by the linear foot quantity as listed in the proposal page without measurement thereof.



## **BASIS OF PAYMENT**

Remove Block Retaining Wall 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 90007–MODULAR BLOCK RETAINING WALL**

### **DESCRIPTION**

This bid item includes all work, materials, equipment and incidentals to install Modular Block Retaining Wall at the locations indicated on the plans. All excavation, base materials, geotextile fabric, clear stone backfill, and modular block components shall be considered incidental to this bid item.

### **PROPRIETARY MODULAR BLOCK WALL SYSTEMS**

Proprietary wall systems may be used for this work, but must conform to the requirements of this specification. The Modular Block Retaining Wall basis of design is:

Unilock Pisa2 Retaining Wall System  
Color: Sierra  
Unilock  
W4814 County Highway A  
Elkhorn, WI 53121  
Phone: 262-742-3890

For any substitutions, the Contractor must provide a submittal package for consideration by 2:00 PM Wednesday, 02/11/2015. The substitution submittal shall include block dimensions, a picture of the block face texture, the manufacturer's ASTM testing information and installation instructions, and a color image of the available colors.

### **MATERIALS**

Materials furnished under this contract shall conform to the following requirements.

**Leveling Pad:** The wall leveling pad shall be non-frost susceptible, well graded compacted crushed aggregate (GW-Unified Soil Classification). The wall leveling pad shall be as wide as the proposed blocks or 12 inches (minimum) whichever is greater and shall be compacted to 98% Standard Proctor Density. The bottom of the bottom row of blocks shall be flat and 100% of the block surface shall bear on the leveling pad. The leveling pad shall step to follow the general slope of the ground line. The leveling pad steps shall keep the bottom of the wall within one block thickness of the minimum embedment, i.e., a minimum embedment plus an additional embedment of up to one block's thickness. Additional embedment may be detailed, but will not be measured for payment.

**Wall Facing:** Wall facing units shall consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices which will develop a mechanical connection between vertical block layers. A single block type and style shall be used throughout each wall. The color of the block shall be as given on the plan or chosen by the Engineer. Modular block facing units which are chipped, cracked or unsightly shall not be used.

The top course of facing units shall be a solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material. A formed cast-in-place concrete cap may also be used to finish the wall. A cap of this type shall be designed to have texture, color, and appearance which complements the remainder of the wall. The vertical dimension of the cap shall not be less than 2.95 inches. Expansion joints shall be placed in the cap to correspond with each 24 inch

change in vertical wall height or at a maximum spacing of 10 feet. Concrete for all cast-in-place caps shall be Grade A and shall conform to the requirements of Subsection 501.4 of the WisDOT Standard Specifications.

Block dimensions may vary no more than  $\pm 1/8$  inch from the standard values published by the manufacturer. Blocks must have a minimum depth (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. Also the minimum allowed thickness of any other portions of the block is 2 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

**Connectors:** Pins, rods, clips, or other devices used to develop mechanical interlock between facing unit block layers shall be manufactured from corrosion resistant materials. The Contractor shall furnish documentation which establishes and substantiates the design life of such devices.

**Backfill Materials:** Wall backfill material shall comply with the requirements for City of Madison Standard Specifications for Public Works Construction for Clear Stone.

All other backfill materials required to finish the wall and restore the ground surface may be selected material available on the project which meets the Engineer's approval.

## CONSTRUCTION METHODS

After completion of excavation, the Engineer will inspect the site and determine if the foundation is adequate for the intended loads. The Engineer shall be allowed two working days to perform the inspection.

The wall facing units shall be placed in accordance with the manufacturer's instructions to the lines, elevations, batter, and tolerances as shown on the plans. The initial layer of facing units shall be centered on the leveling pad, leveled and brought to proper alignment. Formed voids or openings in the facing units shall be filled with Clear Stone. Each layer of facing units shall be swept clean of all debris before the next layer of facing units is placed.

All pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers shall be installed in accordance with the manufacturer's directions. Wall units which are cracked, chipped, or unsightly will be rejected by the Engineer.

At the end of each working day, the Contractor shall provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. No materials or large equipment shall be stockpiled or stored within 10 feet of the front face of the wall.

**Backfill:** Materials shall be placed in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of wall facing units. Compaction of wall backfill shall be accomplished by at least three passes of lightweight manually operated compaction equipment acceptable to the Engineer.

Backfilling operations shall be conducted in such a manner as to prevent damage or misalignment of the wall facing units, soil reinforcement, or other wall components. Any such damage or misalignment shall be corrected at the Contractor's expense as directed by the Engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the Contractor and the Engineer.

No tracked or wheeled equipment may operate on the backfill within 3 feet from the back face of modular blocks. The Engineer may order the removal of any large or heavy equipment which may cause damage or misalignment of the wall facing units.

## **METHOD OF MEASUREMENT**

Modular Block Retaining Wall shall be measured by the square foot of face on a vertical plane between the top of the leveling pad and a line indicating the top of wall including wall cap or copings as required and shown on the plans. Unless ordered by the Engineer, wall area constructed above or below these limits will not be measured for payment. The total quantity will be the sum of the quantities for each wall segment.

## **BASIS OF PAYMENT**

Modular Retaining Block Wall, measured as provided above, will be paid for at the contract unit price per square foot, which shall be full compensation for site preparation, including all necessary excavation and disposal of surplus materials, supplying all necessary wall components to produce a functional system, construction of the retaining system, backfill, backfilling, compaction, and for furnishing all tools, labor, and equipment necessary to complete the work.

## **BID ITEM 90008 - REMOVE/DISPOSE OF BASKETBALL POLE, BACKBOARD AND FOOTING**

### **DESCRIPTION**

Work under this item shall include all materials, labor and incidentals necessary to remove and dispose of the basketball pole, backboard, rim and footing at Stevens Street Park. The existing basketball pole, footing, backboard and rim shall be disposed of offsite in a location to be determined and provided by the Contractor, at no extra cost to the City. Included in this item should be all materials (including sand backfill), labor and incidentals necessary to fill the hole created by removing the pole and footing with select fill sand. The hole is to be filled and compacted (hand tamped), in 12" increments.

### **METHOD OF MEASUREMENT**

Remove/Dispose of Basketball Pole, Backboard and Footing shall be measured per unit.

### **BASIS OF PAYMENT**

Remove/Dispose of Basketball Pole, Backboard and Footing are to be paid for per unit for the completed work as described above.

## **BID ITEM 90009 - INSTALL NEW BASKETBALL POLE, BACKBOARD, RIM AND NET**

### **DESCRIPTION**

The work to be done under this contract consists of furnishing all labor, equipment, and materials necessary to install a basketball pole, pole footing, backboard, rim and net, at Stevens Street Park, in accordance with the manufacturers specifications and these drawings. Layout of the pole is to be done by the Contractor and approved by the Parks Division prior to installation. Any questions regarding installation should be directed to Mike Sturm, City of Madison Parks Division, (608) 267-4921.

The pole, backboard, rim and net will be purchased by the City Parks Division under separate contract and stored at the:

Goodman Field Parks Maintenance Facility  
1402 Wingra Creek Parkway, Madison, WI 53715.

The Contractor will be responsible for picking up the pole, backboard, rim and net and delivering them to the job site. The service yard hours are 7:00 a.m. to 3:00 p.m. Contact Mike Sturm at (608) 267-4921 to coordinate pick-up.

Installation of the associated concrete pole footing is incidental to this bid item.

## **METHOD OF MEASUREMENT**

Method of measurement for Installation New Basketball Pole, Backboard, Rim and Net will be per complete unit which includes the following:

- Pick up at Goodman Maintenance Facility and deliver to the work site
- Installation of the pole, concrete pole footing, backboard, rim and net according to manufacturers specifications

## **BASIS OF PAYMENT**

Installation New Basketball Pole, Backboard, Rim and Net is to be paid for per unit for the completed work as described above.

## **BID ITEM 90010 – CONSTRUCTION ORNAMENTAL METAL FENCE**

### **DESCRIPTION**

Work includes all labor, materials and equipment necessary to furnish and install decorative metal picket fencing per details and as shown on the Plans Sheet 5.6. All fittings, fasteners, concrete footings, and miscellaneous related items shall be incidental to this item. Basis of design for this fence and gate is Ameristar Montage II, or approved equal.

Proposed equivalents must be submitted to the Engineer for approval one week prior to bid.

### **METHOD OF MEASUREMENT**

Construction Ornamental Metal Fence shall be measured as listed in the proposal page, acceptably completed at the contract unit listed under basis of payment acceptably complete.

### **BASIS OF PAYMENT**

Construction Ornamental Metal Fence shall be paid for at the contract price per linear foot and shall be full compensation for furnishing and installing all materials including concrete footings, hardware, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

## **BID ITEM 90011 – CONSTRUCTION ORNAMENTAL METAL FENCE GATES**

### **DESCRIPTION**

Work includes all labor, materials and equipment necessary to furnish and install decorative metal picket swing gates per details and as shown on the Plans Sheets 5.6. All fittings, fasteners, concrete footings, and miscellaneous related items shall be incidental to this item. Basis of design for this fence and gate is Ameristar Montage II, or approved equal.

Proposed equivalents must be submitted to the Engineer for approval one week prior to bid.

### **METHOD OF MEASUREMENT**

Construction Ornamental Metal Fence Gates shall be measured as lump sum for the completed work as described above.

## **BASIS OF PAYMENT**

Construction Ornamental Metal Fence Gates shall be paid for as described above and shall be full compensation for furnishing and installing all materials including concrete footings, hardware, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

## **BID ITEM 90012 - 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 # 6BARP) 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.**

The associated concrete pad construction shall be incidental to BID ITEM 40401 5" DEPTH CONCRETE PAVEMENT.

### **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 90013 - 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.

**BID ITEM 90014 – BIKE RACK SALVAGE AND INSTALLATION****DESCRIPTION**

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to salvage and re-install an existing bike rack.

All double handling is included in this bid item. .

The associated new concrete pad construction shall be incidental to BID ITEM 40401 5" DEPTH CONCRETE PAVEMENT.

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**

Bike Rack Salvage and Installation shall be measured per each individual bike rack.

**BASIS OF PAYMENT**

Bike Rack Salvage and 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, disposal and incidentals required to complete the work as set forth in the description.

END OF SPECIAL PROVISIONS

## SECTION E: BIDDERS ACKNOWLEDGEMENT

### 2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473

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

### 2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473

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)



**2015 PARK PLAYGROUNDS - GROUP 1  
CONTRACT NO. 7473**

**Best Value Contracting**

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

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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:

### **2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473**

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.

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Signature of Authorized Contractor Representative

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Date

## SECTION H: AGREEMENT

THIS AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_ in the year Two Thousand and Fifteen 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:

### 2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473

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. In addition, if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

**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 and DWD prevailing wage requirements are attached hereto as Sec. I of 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.)

6. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.

**CONTRACT NO. 7473**

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:

### 2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT NO. 7473

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: 1/7/2015

**DETERMINATION NUMBER:** 201500014

**EXPIRATION DATE:** Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2015. 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

<b>CLASSIFICATION:</b>	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: <a href="http://dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm">dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm</a> .
<b>OVERTIME:</b>	<p>Time and one-half must be paid for all hours worked:</p> <ul style="list-style-type: none"><li>- over 10 hours per day on prevailing wage projects</li><li>- over 40 hours per calendar week</li><li>- Saturday and Sunday</li><li>- 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;</li><li>- The day before if January 1, July 4 or December 25 falls on a Saturday;</li><li>- The day following if January 1, July 4 or December 25 falls on a Sunday.</li></ul> <p>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.</p> <p>A DOT Premium (discussed below) may supersede this time and one-half requirement.</p>
<b>FUTURE INCREASE:</b>	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.
<b>PREMIUM PAY:</b>	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.
<b>DOT PREMIUM:</b>	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.
<b>APPRENTICES:</b>	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.
<b>SUBJOURNEY:</b>	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.



<b>BUILDING OR HEAVY CONSTRUCTION</b>
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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.

<b>SKILLED TRADES</b>
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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 \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
102	Boilermaker Future Increase(s): Add \$1.50/hr. on 01/01/2016	33.35	28.24	61.59
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.40 on 06/01/2015; Add \$1.45 on 06/06/2016 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	18.66	51.48
104	Cabinet Installer Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72
106	Carpet Layer or Soft Floor Coverer Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
107	Cement Finisher	31.98	12.04	44.02
108	Drywall Taper or Finisher	26.05	18.23	44.28
109	Electrician Future Increase(s): Add \$1.20/hr on 6/1/15; Add \$1.25/hr on 6/1/16. 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.	34.82	19.67	54.49
110	Elevator Constructor	43.84	27.09	70.93

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
111	Fence Erector	18.00	6.09	24.09
112	Fire Sprinkler Fitter	36.79	18.81	55.60
113	Glazier Future Increase(s): Add \$.75/hr eff. 06/01/2015; Add \$.90/hr eff. 06/01/2016	37.07	14.42	51.49
114	Heat or Frost Insulator	33.43	25.81	59.24
115	Insulator (Batt or Blown) Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
116	Ironworker	31.50	20.01	51.51
117	Lather	31.40	15.90	47.30
118	Line Constructor (Electrical)	39.50	17.73	57.23
119	Marble Finisher	16.25	2.32	18.57
120	Marble Mason	32.09	18.04	50.13
121	Metal Building Erector	19.05	8.08	27.13
122	Millwright Future Increase(s): Add \$1.47/hr on 6/1/2015; Add \$1.47/hr on 6/1/2016.	34.44	16.07	50.51
123	Overhead Door Installer	27.46	1.98	29.44
124	Painter	25.75	16.60	42.35
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.60/hr on 6/1/2016. Premium Increase(s): Add \$.65/hr for Piledriver Loftsmen; Add \$.75/hr for Sheet Piling Loftsmen. 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.	30.11	26.51	56.62
127	Pipeline Fuser or Welder (Gas or Utility)	30.83	20.89	51.72
129	Plasterer Future Increase(s): Add \$1.56 on 06/01/2015; Add \$1.61 on 06/01/2016; Add \$1.66 on 06/01/2017	32.65	19.36	52.01
130	Plumber Future Increase(s): Add \$1.80 on 6/1/15	37.57	17.47	55.04

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
132	Refrigeration Mechanic Future Increase(s): Add \$1.80 on 6/1/15	44.20	18.26	62.46
133	Roofer or Waterproofer	29.40	11.31	40.71
134	Sheet Metal Worker	34.45	22.54	56.99
135	Steamfitter Future Increase(s): Add \$1.80/hr on 6/1/15.	44.20	18.26	62.46
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.	22.50	12.74	35.24
138	Temperature Control Installer	42.95	15.04	57.99
139	Terrazzo Finisher	16.25	2.32	18.57
140	Terrazzo Mechanic	31.18	17.35	48.53
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter	29.81	17.18	46.99
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
146	Well Driller or Pump Installer	25.32	15.65	40.97
147	Siding Installer	36.17	19.44	55.61
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	30.16	15.11	45.27
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	26.76	58.36
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	14.49	42.14
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.83	15.01	42.84
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.90	9.83	31.73

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	32.89	18.96	51.85
203	Three or More Axle	18.00	21.99	39.99

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
204	Articulated, Euclid, Dumptror, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	18.00	21.99	39.99

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Future Increase(s): Add \$1.35/hr eff. 06/01/2015; Add \$1.25/hr eff. 06/06/2016 Premium Increase(s): Add \$1.00/hr for certified welder; Add \$.25/hr for mason tender	24.97	15.12	40.09
302	Asbestos Abatement Worker	18.00	9.58	27.58
303	Landscaper	18.75	10.26	29.01
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	21.55	14.14	35.69
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.	18.82	14.16	32.98
314	Railroad Track Laborer	14.50	5.29	19.79
315	Final Construction Clean-Up Worker Future Increase(s): Add \$1.35/hr eff. 06/01/2015; Add \$1.25/hr eff. 06/06/2016	24.97	15.12	40.09

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

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfg'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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
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. Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	31.62	19.78	51.40
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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.	35.72	17.85	53.57
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.	35.46	20.40	55.86

**HEAVY EQUIPMENT OPERATORS  
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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. Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016. 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.	36.67	19.78	56.45
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes.	35.42	19.78	55.20
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	34.22	19.78	54.00

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
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. Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	31.62	19.78	51.40
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); Oilier; 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. Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	30.99	19.78	50.77
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$1/hr on 6/1/2015; Add \$1/hr on 5/30/2016.	36.34	22.14	58.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.65/hr on 6/1/2015.	33.12	19.35	52.47
516	Fiber Optic Cable Equipment	28.89	17.95	46.84





**SEWER, WATER OR TUNNEL CONSTRUCTION**

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

**SKILLED TRADES**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13
105	Carpenter Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.65/hr on 6/1/2016. 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.	34.13	20.61	54.74
107	Cement Finisher Future Increase(s): 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.	35.18	16.78	51.96
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.	33.93	22.77	56.70
111	Fence Erector	18.00	6.09	24.09
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	39.50	17.73	57.23
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver	29.56	25.71	55.27
130	Plumber	21.50	0.00	21.50
135	Steamfitter	42.95	17.81	60.76
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
146	Well Driller or Pump Installer	25.32	15.65	40.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.19	46.79
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	13.28	38.96
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.18	18.31	43.49
203	Three or More Axle	19.50	4.97	24.47
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	19.50	4.97	24.47

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Future Increase(s): Add \$1.35/hr eff. 06/01/2015; Add \$1.25/hr eff. 06/06/2016 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.	26.34	15.13	41.47
303	Landscaper	39.43	0.00	39.43

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
304	Flagperson or Traffic Control Person	31.95	0.00	31.95
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79

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

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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. Future Increase(s): Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	37.24	20.10	57.34
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	34.22	19.78	54.00
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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.	30.82	18.96	49.78
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.	30.69	18.46	49.15
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.19	18.96	49.15
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36
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.	35.72	17.85	53.57
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.	35.46	20.40	55.86

<b>AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION</b>
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**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
CODE	TRADE OR OCCUPATION	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72
107	Cement Finisher Future Increase(s): 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.	35.18	16.78	51.96
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.	33.93	22.77	56.70
111	Fence Erector	18.00	6.09	24.09
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	39.50	17.73	57.23
124	Painter	26.65	13.10	39.75
125	Pavement Marking Operator	29.22	25.90	55.12
126	Piledriver Future Increase(s): Add \$1.44/hr on 6/1/2015; Add \$1.44/hr on 6/1/2016. 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.	33.24	16.00	49.24
133	Roofer or Waterproofor	29.40	11.31	40.71

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.29	46.89
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	12.83	38.51
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.73	12.17	33.90

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.18	18.31	43.49
203	Three or More Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.28	18.31	43.59
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	30.27	21.15	51.42
205	Pavement Marking Vehicle	23.16	21.13	44.29
206	Shadow or Pilot Vehicle	24.37	17.77	42.14

207	Truck Mechanic	24.52	17.77	42.29
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**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b><u>HOURLY BASIC RATE OF PAY</u></b> \$	<b><u>HOURLY FRINGE BENEFITS</u></b> \$	<b><u>TOTAL</u></b> \$
301	General Laborer Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 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).	30.41	15.14	45.55
302	Asbestos Abatement Worker	18.00	9.58	27.58
303	Landscaper Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 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 \$1.25/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).	30.41	15.14	45.55
304	Flagperson or Traffic Control Person Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Increase(s):	26.76	15.14	41.90

**Fringe Benefits Must Be Paid On All Hours Worked**

<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b><u>HOURLY BASIC RATE OF PAY</u></b> \$	<b><u>HOURLY FRINGE BENEFITS</u></b> \$	<b><u>TOTAL</u></b> \$
	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.			
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79

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

**Fringe Benefits Must Be Paid On All Hours Worked**

<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b><u>HOURLY BASIC RATE OF PAY</u></b> \$	<b><u>HOURLY FRINGE BENEFITS</u></b> \$	<b><u>TOTAL</u></b> \$
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 \$1.25/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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	37.72	21.15	58.87
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 \$1.25/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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	37.22	21.15	58.37



<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
533	<p>Air Track, Rotary or Percussion Drilling Machine &amp;/or Hammers, Blaster; Asphalt Heater, Planer &amp; 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. &amp; Under); Bituminous (Asphalt) Plant &amp; 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 &amp; Gutter Machine; Concrete Spreader &amp; 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 &amp; A-Frames.</p> <p>Future Increase(s):            Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016;            Add \$1.25/hr on 6/1/2017.</p> <p>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 &amp; 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a>.</p>	36.72	21.15	57.87

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
534	<p>Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed &amp; Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver &amp; 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.</p> <p>Future Increase(s):            Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016;            Add \$1.25/hr on 6/1/2017.</p> <p>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 &amp; 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a>.</p>	36.46	21.15	57.61
535	<p>Air Compressor (&amp;/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical &amp; Horizontal); Automatic Belt Conveyor &amp; Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&amp;/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.</p> <p>Future Increase(s):            Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016;            Add \$1.25/hr on 6/1/2017.</p> <p>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 &amp; 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a>.</p>	36.17	21.15	57.32
536	Fiber Optic Cable Equipment.	28.89	17.95	46.84
537	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b><u>HOURLY BASIC RATE OF PAY</u></b>	<b><u>HOURLY FRINGE BENEFITS</u></b>	<b><u>TOTAL</u></b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
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.	35.72	17.85	53.57
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.	35.46	20.40	55.86

<b>LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION</b>
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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).

<b>SKILLED TRADES</b>
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Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72
107	Cement Finisher Future Increase(s): 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.	35.18	16.78	51.96
109	Electrician	35.72	19.17	54.89
111	Fence Erector	18.00	6.09	24.09
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	39.50	17.73	57.23
124	Painter	25.75	16.60	42.35
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver	29.56	25.71	55.27
133	Roofer or Waterproofor	29.40	11.31	40.71
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.19	46.79
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	13.28	38.96
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72
<b>TRUCK DRIVERS</b>				

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.18	18.31	43.49
203	Three or More Axle	16.00	0.00	16.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
206	Shadow or Pilot Vehicle	24.37	17.77	42.14
207	Truck Mechanic	16.00	0.00	16.00

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer	29.32	12.44	41.76
303	Landscaper Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Increase(s):	30.13	15.14	45.27

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
	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).			
304	Flagperson or Traffic Control Person	19.06	14.29	33.35
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79

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

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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 \$1.25/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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	37.72	21.15	58.87

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
542	<p>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. &amp; Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &amp;/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.</p> <p>Future Increase(s):            Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016;            Add \$1.25/hr on 6/1/2017.</p> <p>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 &amp; 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a>.</p>	37.22	21.15	58.37
543	<p>Air Track, Rotary or Percussion Drilling Machine &amp;/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. &amp; 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 &amp; Gutter Machine; Concrete Spreader &amp; 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 &amp; A-Frames.</p>	35.72	17.85	53.57

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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. Future Increase(s): 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	36.46	21.15	57.61
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; 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.	35.17	20.40	55.57
546	Fiber Optic Cable Equipment.	28.89	17.95	46.84
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36
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.	35.72	17.85	53.57
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.	35.46	20.40	55.86



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

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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.	36.72	20.40	57.12
552	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 \$1.25/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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	37.22	21.15	58.37
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. Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.	36.17	20.80	56.97
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 \$1.25/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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	36.17	21.15	57.32
556	Fiber Optic Cable Equipment.	27.89	17.20	45.09

<b>RESIDENTIAL OR AGRICULTURAL CONSTRUCTION</b>
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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.

<b>SKILLED TRADES</b>
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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	33.07	16.07	49.14
102	Boilermaker	32.05	28.04	60.09
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.40 on 06/01/2015; Add \$1.45 on 06/06/2016 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	18.66	51.48
104	Cabinet Installer	34.42	0.00	34.42
105	Carpenter	31.40	2.01	33.41
106	Carpet Layer or Soft Floor Coverer	30.00	0.00	30.00
107	Cement Finisher	24.08	0.00	24.08
108	Drywall Taper or Finisher	8.50	0.00	8.50
109	Electrician	20.00	6.62	26.62
110	Elevator Constructor	23.26	0.00	23.26
111	Fence Erector	16.00	3.76	19.76
112	Fire Sprinkler Fitter	39.00	18.00	57.00
113	Glazier Future Increase(s): Add \$.75/hr eff. 06/01/2015; Add \$.90/hr eff. 06/01/2016	37.07	14.42	51.49
114	Heat or Frost Insulator	33.43	25.81	59.24
115	Insulator (Batt or Blown)	23.00	10.55	33.55
116	Ironworker	31.50	20.01	51.51
117	Lather	31.40	2.01	33.41
119	Marble Finisher	16.25	2.32	18.57
120	Marble Mason	32.09	18.04	50.13

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
121	Metal Building Erector	18.00	5.88	23.88
123	Overhead Door Installer	16.65	1.03	17.68
124	Painter	25.75	8.94	34.69
125	Pavement Marking Operator	18.75	2.47	21.22
129	Plasterer	25.00	10.45	35.45
130	Plumber	30.00	10.44	40.44
132	Refrigeration Mechanic	17.00	13.56	30.56
133	Roofer or Waterproofer	15.00	1.37	16.37
134	Sheet Metal Worker	22.54	5.20	27.74
135	Steamfitter	23.62	16.12	39.74
137	Teledata Technician or Installer	18.00	28.48	46.48
138	Temperature Control Installer	22.00	1.62	23.62
139	Terrazzo Finisher	16.25	2.32	18.57
140	Terrazzo Mechanic	30.71	16.52	47.23
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter Future Increase(s): Add \$1.40/hr on 6/01/2015; Add \$1.45/hr on 6/06/2016.	31.55	18.26	49.81
143	Tuckpointer, Caulker or Cleaner	14.00	8.75	22.75
146	Well Driller or Pump Installer	12.75	9.50	22.25
147	Siding Installer	17.25	0.00	17.25

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	16.50	0.00	16.50
203	Three or More Axle	18.00	2.44	20.44
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	18.00	2.44	20.44

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer	24.21	8.02	32.23
302	Asbestos Abatement Worker	16.50	8.21	24.71
303	Landscaper	12.00	0.00	12.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
315	Final Construction Clean-Up Worker	10.00	3.47	13.47

**HEAVY EQUIPMENT OPERATORS  
RESIDENTIAL OR AGRICULTURAL CONSTRUCTION**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
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.	34.22	19.78	54.00

Future Increase(s):

Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.

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. Future Increase(s): 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: <a href="http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm">http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm</a> .	36.72	21.15	57.87
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\*\*\*\*\* END OF RATES \*\*\*\*\*

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## PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for most of these exclusions. The prevailing wage laws that apply to local governmental units and their contractors are §§66.0903 and 103.503, Wis. Stats. The prevailing wage laws that apply to state agencies and their contractors are §§103.49 and 103.503, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Have a written substance abuse testing program in place that fulfills the requirements of §103.503, Wis. Stats., before commencing work on the project.

- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.
- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.
- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.
- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.
- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.





## **SECTION K: 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 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 the Contractor's actual install hours.
3. Footing plans provided by the manufacturer may not reflect the correct placement of the play structure relative to the placement of swings. Refer to site plans for placement of components on site. Footing plans are provided for reference only.



# FLAD PARK

MADISON, WI

OPTION #2



**LR**  
**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



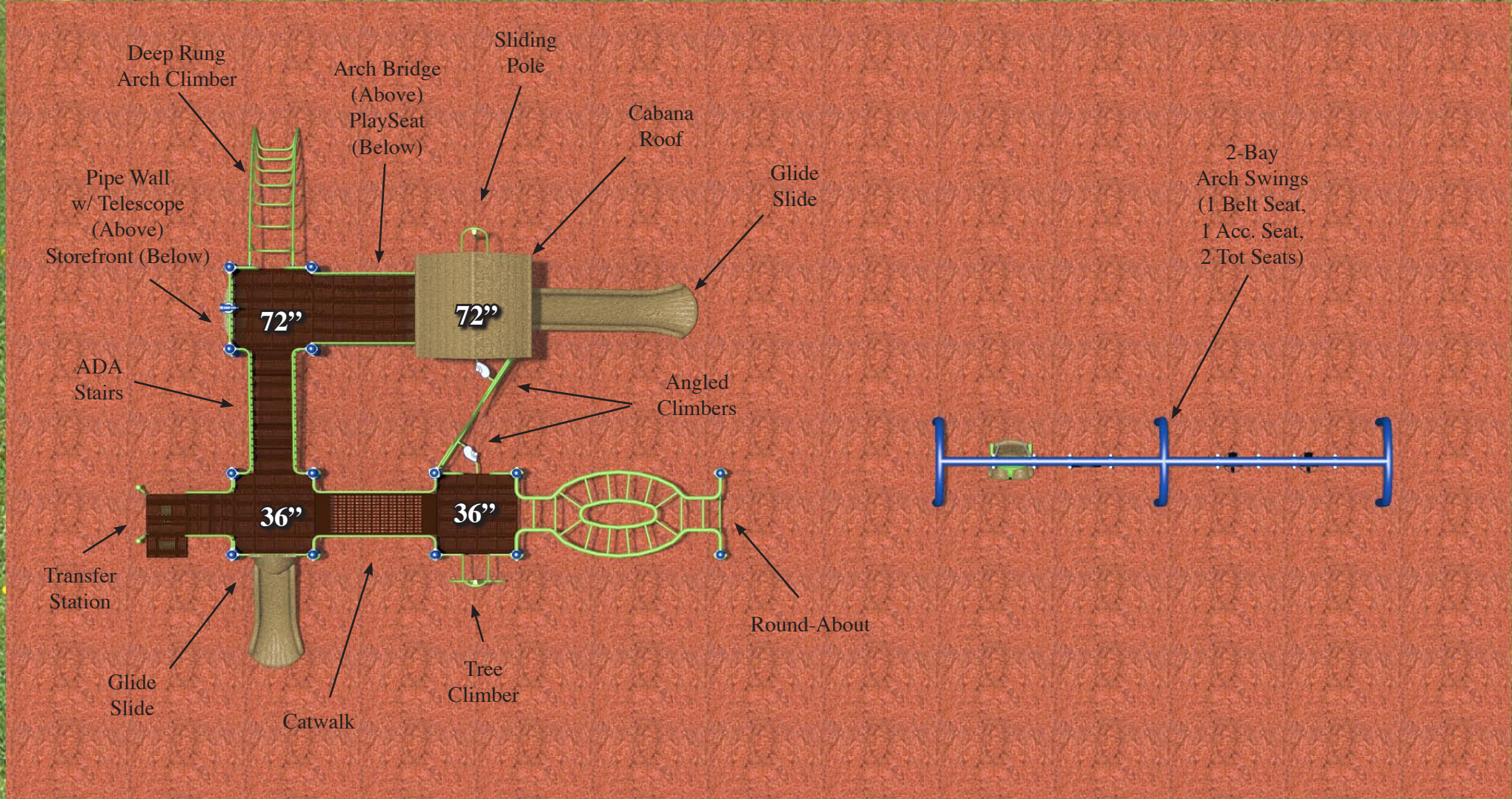
# FLAD PARK

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: PW112014  
Use Zone:  
# of Users: 54  
# of Active Play Events: 18  
Age: 5 to 12

Colors Shown:

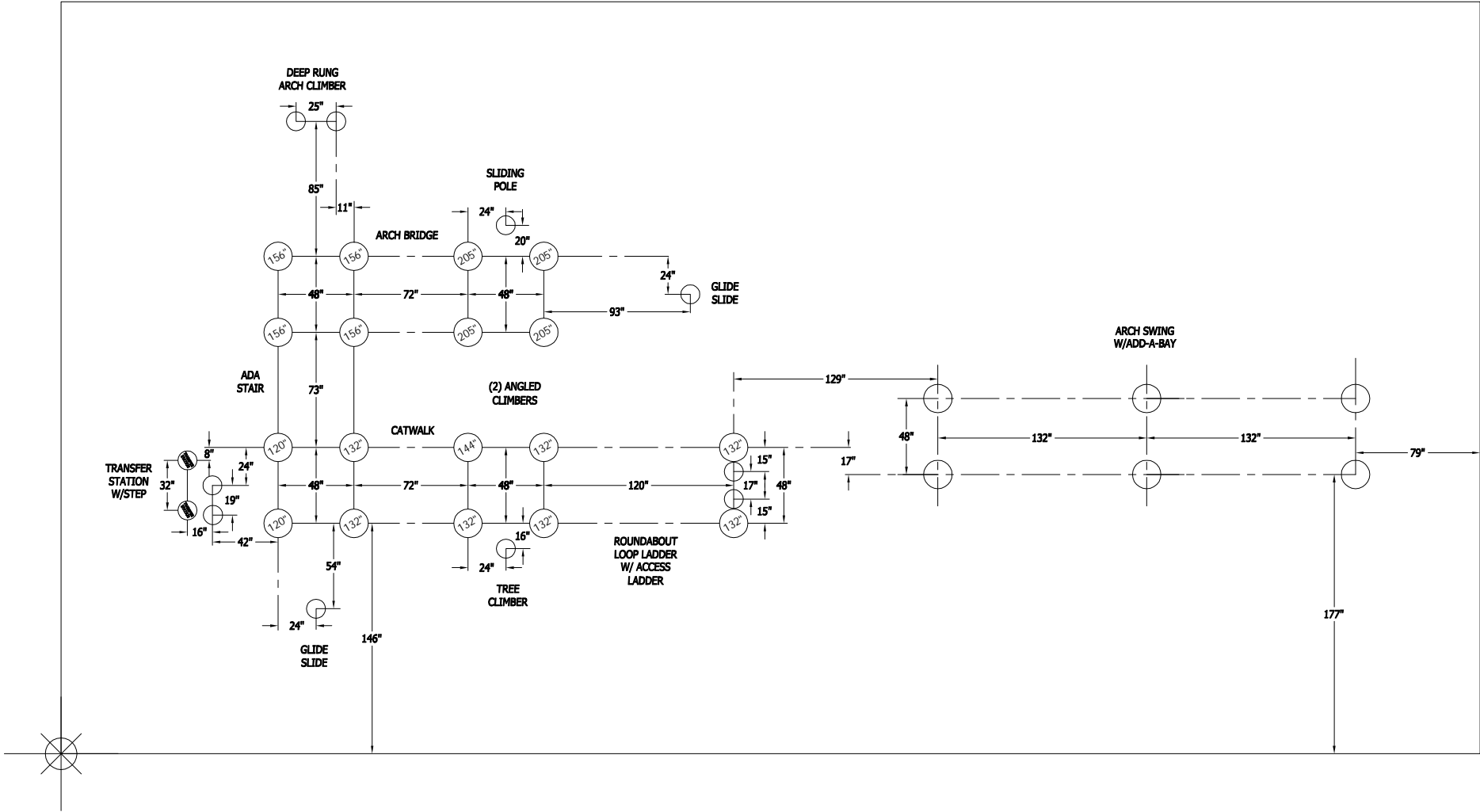
 Blue

 Brownstone

 Lime



\*Playground Supervision Required



PROJECT NO: FLAD2-2.LEE	REV: -	DATE: 08-JAN-15
SYSTEM: PLAYMAKERS	SCALE: 1/8" = 1'-0"	
FOOTING PLAN	DRAWN BY: DANA GRUBBS	

LEE RECREATION  
809 Bluebird Pass  
Cambridge, WI 53523

PLAYWORLD<sup>SM</sup>

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FOOTING LEGEND

- = COMPONENT FOOTING (DETAIL 3)
- = SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
- = SUPPORT POST FOOTING (DETAIL 1 or 4)  
(112" (2845mm) INDICATES POST LENGTH)
- = CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2)  
(ZCCH1850 INDICATES PART NUMBER)
- = GROUND ZERO POST FOOTING (DETAIL 2)  
(144" (3659mm) INDICATES POST LENGTH)

FLAD 2-2  
FOOTINGS ONLY



## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

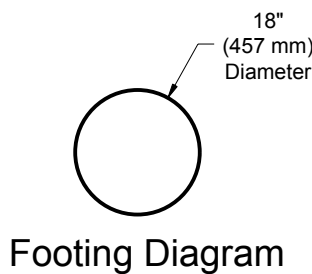
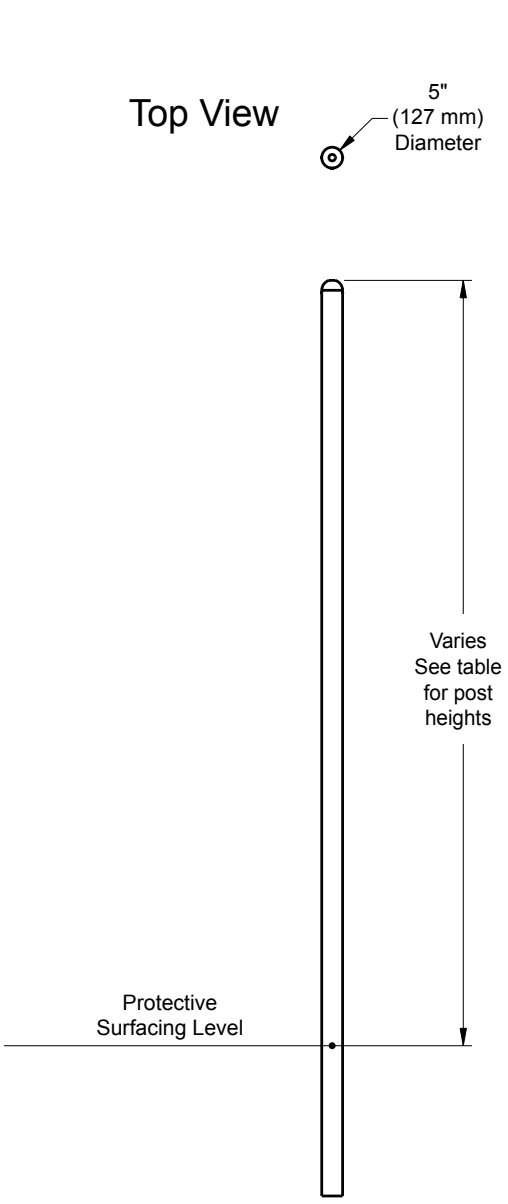


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



# Installation Instructions

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**\_\_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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

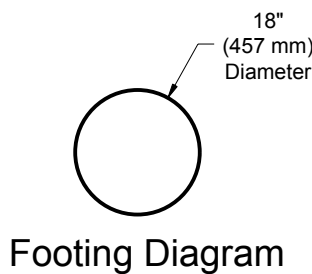
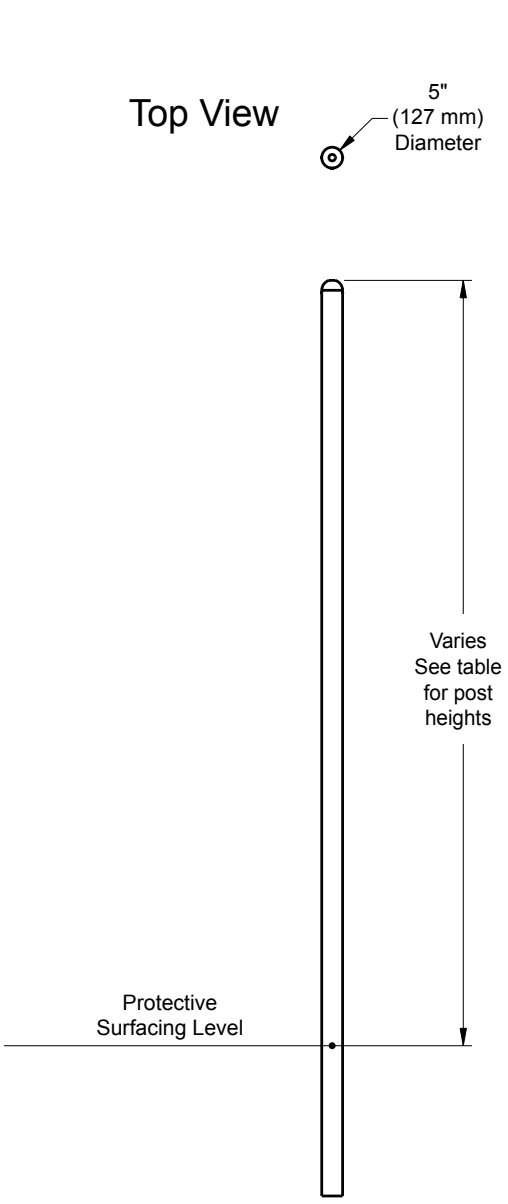


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

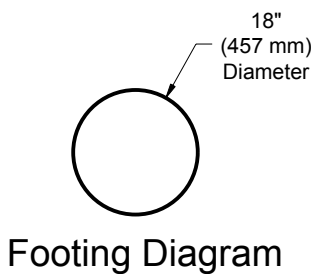
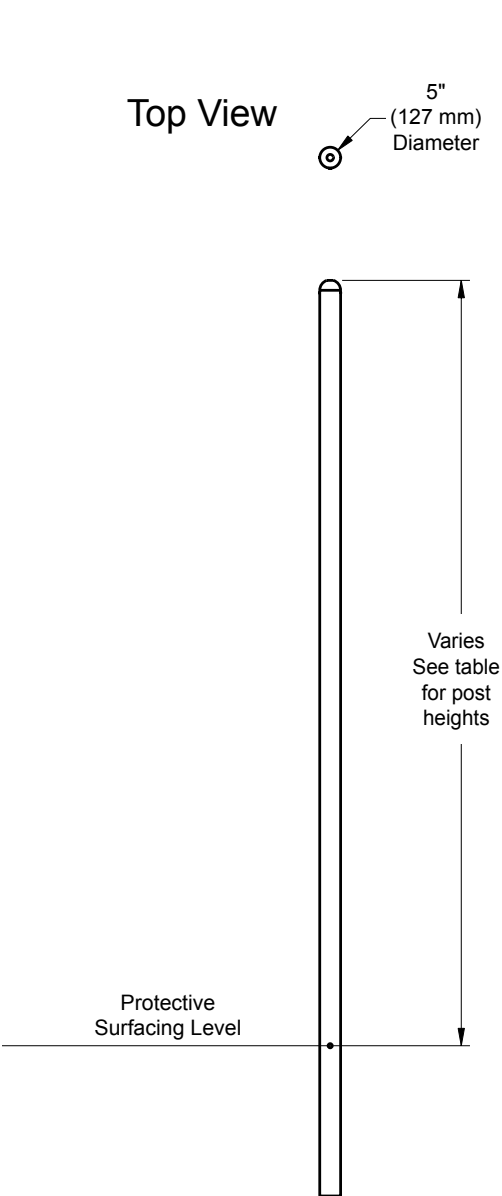


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
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ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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.

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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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

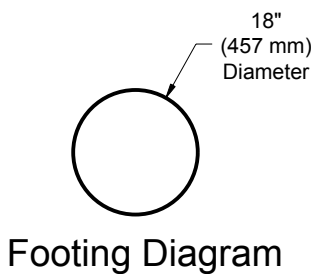
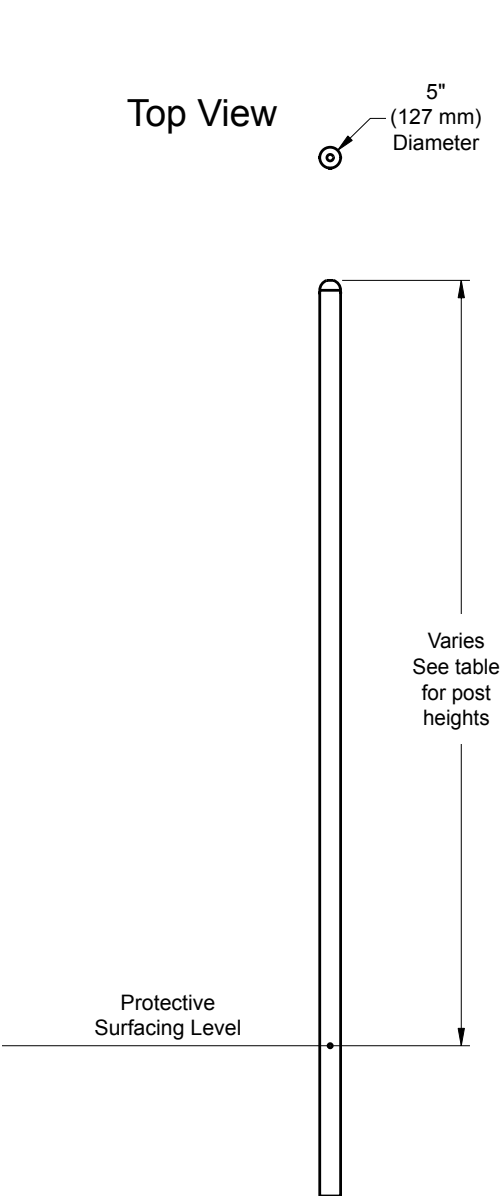


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,  
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,  
PM0136A, PM0138A, PM0267A, PM0269A

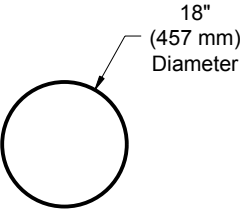
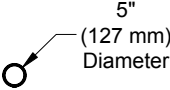
Aluminum Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

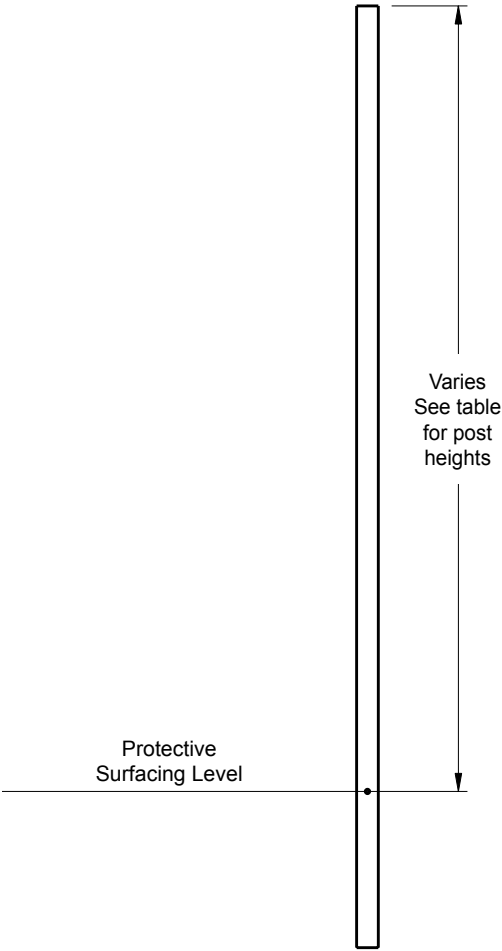
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 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

## PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1

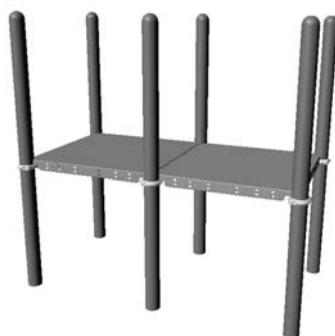


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## Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616  
Square Deck



ZZPM0629  
Long Deck

Assembly View

### Installation Preparation

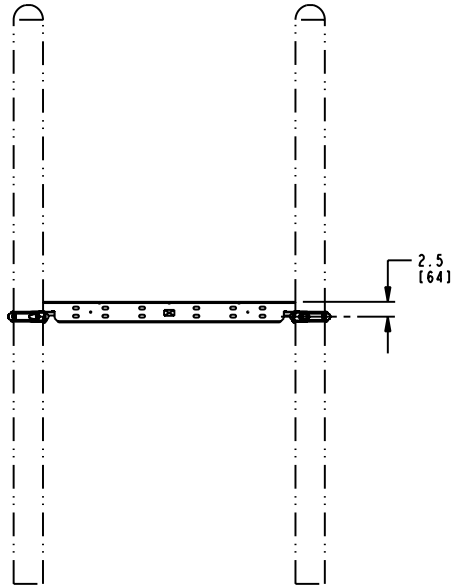
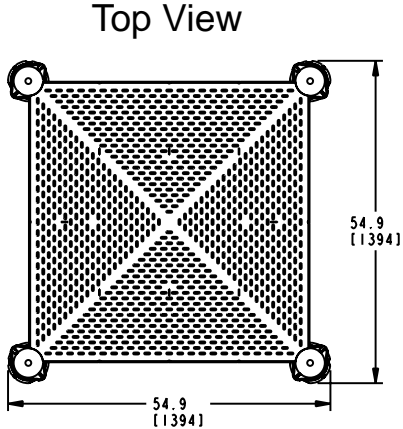
Recommended Crew (PM0616):..... Two (2) adults  
Recommended Crew (PM0629):..... Four (4) adults  
Installation Time (PM0616): ..... 1 man-hour  
Installation Time (PM0629): ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

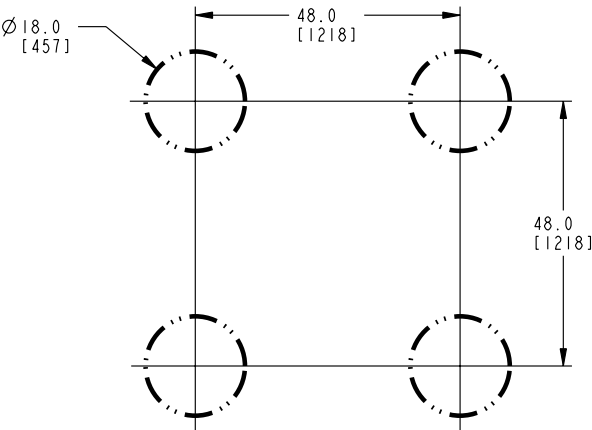
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

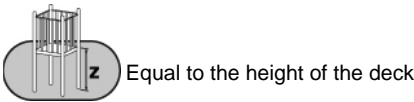
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0616

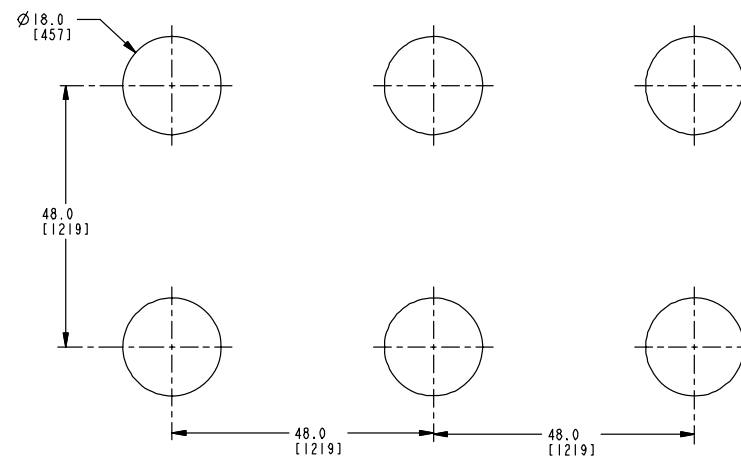
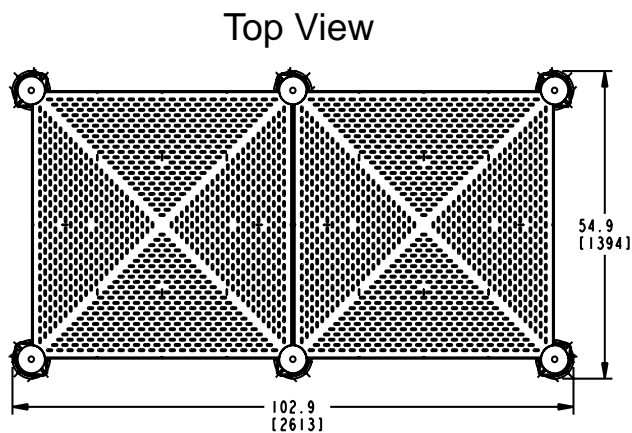


Footing Diagram

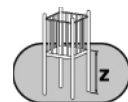
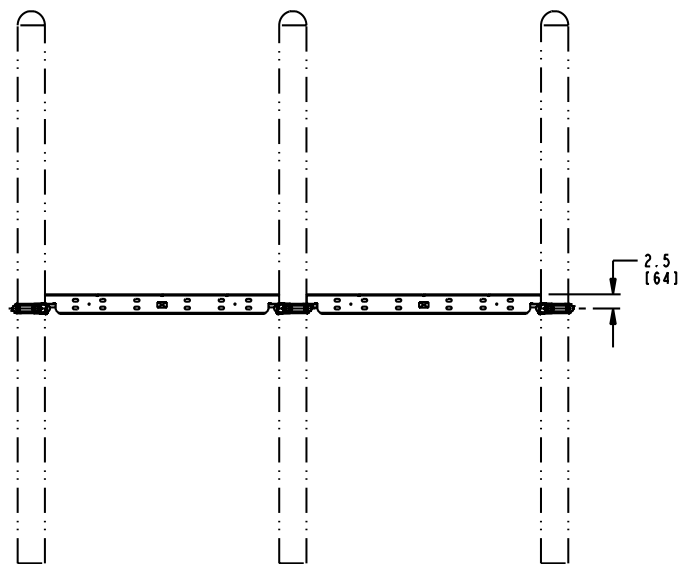


# Installation Instructions

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



Footing Diagram



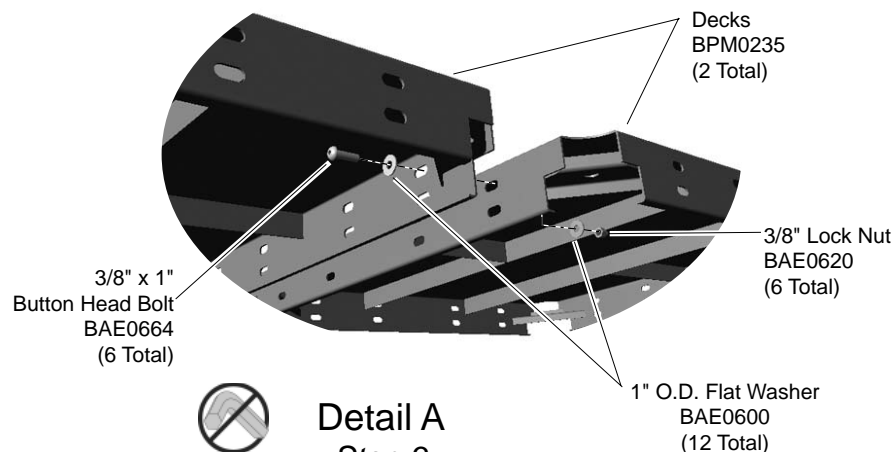
Equal to the height of the deck

Elevation View  
Model PM0629

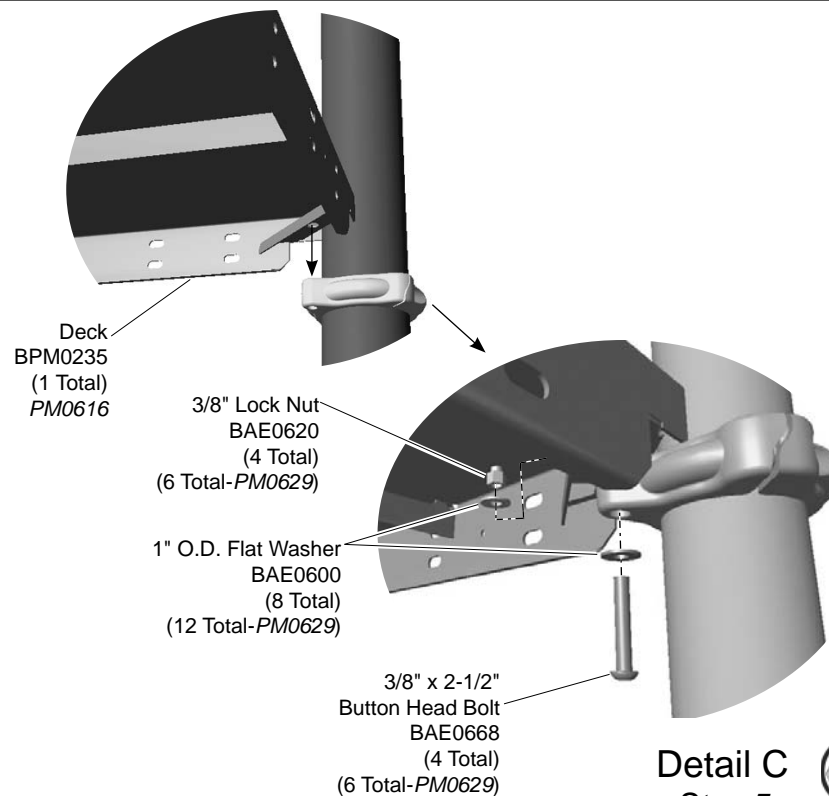


# Installation Instructions

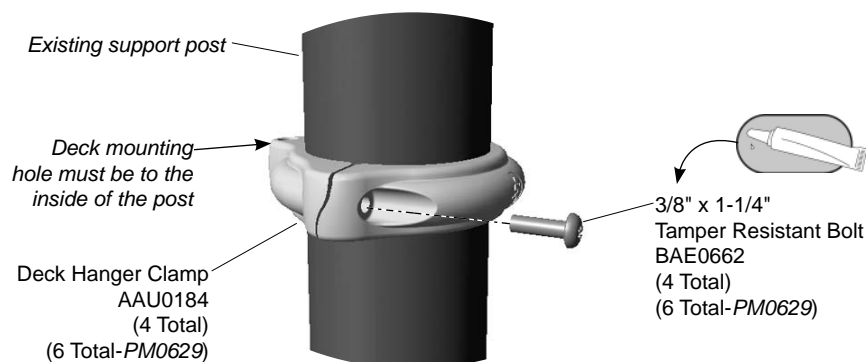
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



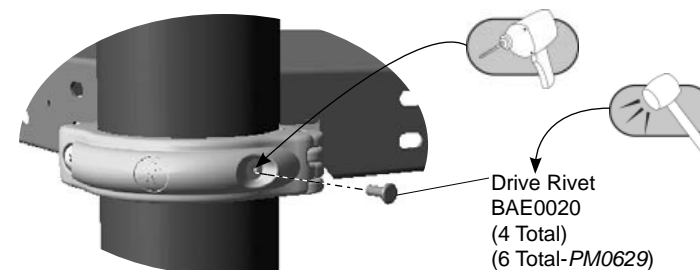
**Detail A**  
**Step 3**  
*(Model PM0629 Only)*  
*Attach the two decks together.*



**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
BPM0235	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
BPM0235	PLATFORM - PM SQUARE PERF	2



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Assembly View (representative model)

## Installation Instructions

Playmakers® Models PM2008 and PM2008S  
36 in. (914 mm) Transfer Station w/Barriers  
In-Ground and Surface Mount

### Installation Preparation

Recommended Crew: ..... Two (2) adults  
Installation Time (In-Ground): ..... 3 man-hours  
Installation Time (Surface Mount): ..... 1.5 man-hours  
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
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

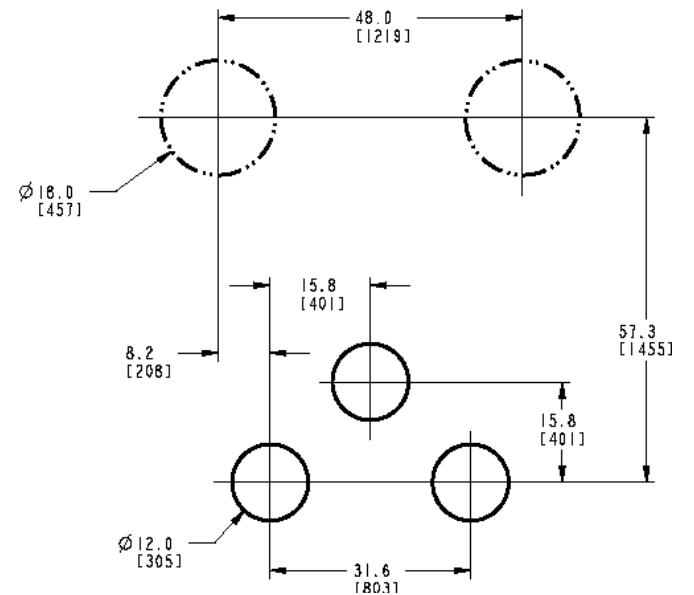
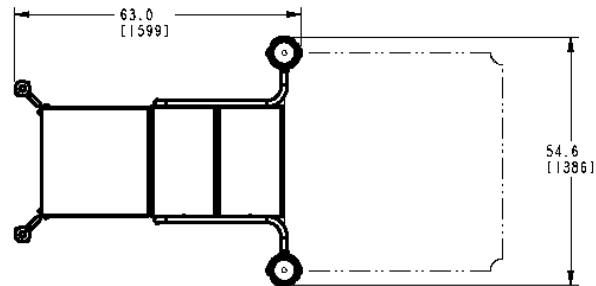


# Installation Instructions

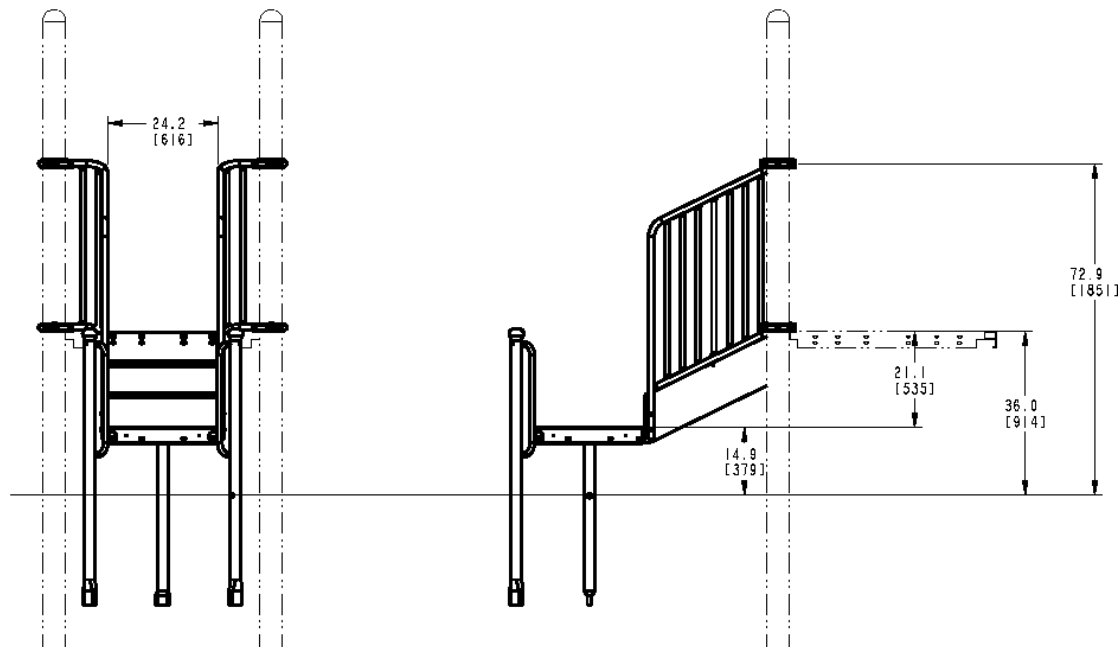
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

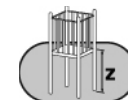
Top View



Footing Diagram



Elevation View  
PM2008



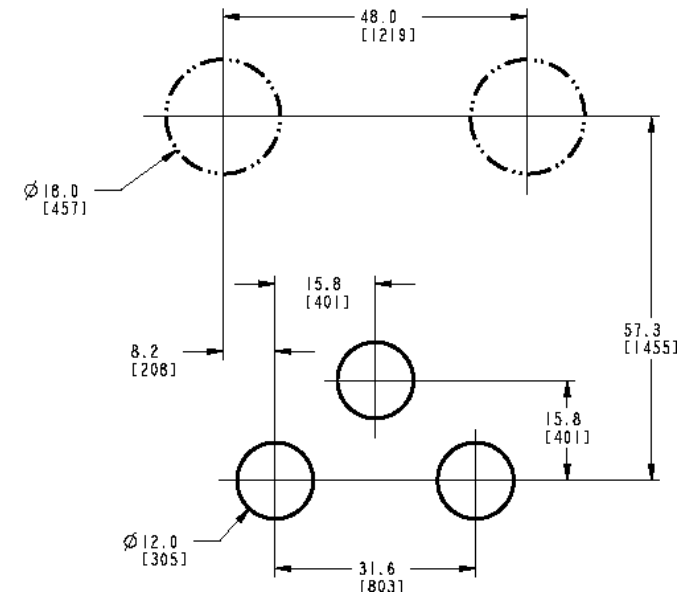
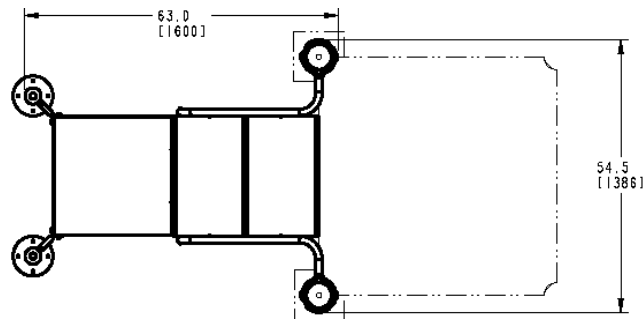
27" (685 mm)

# Installation Instructions

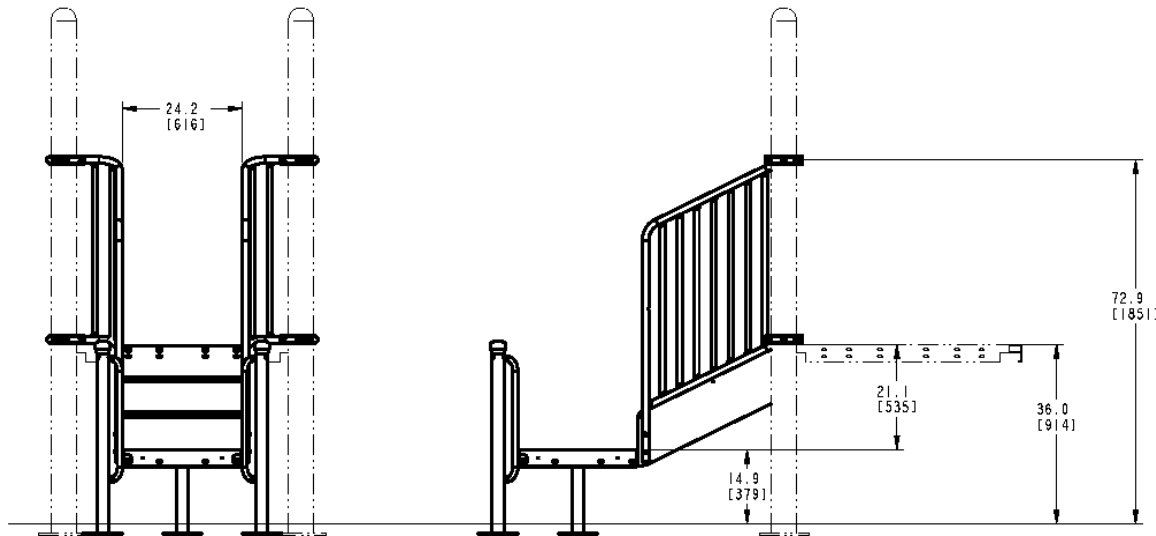
## KEY

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

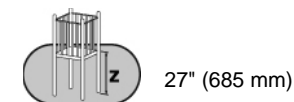
Top View



Footing Diagram

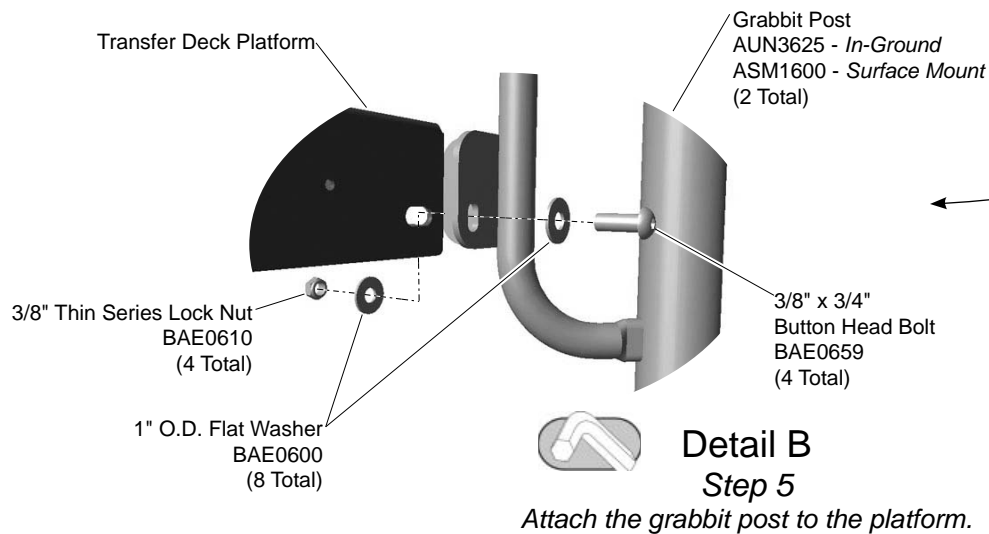
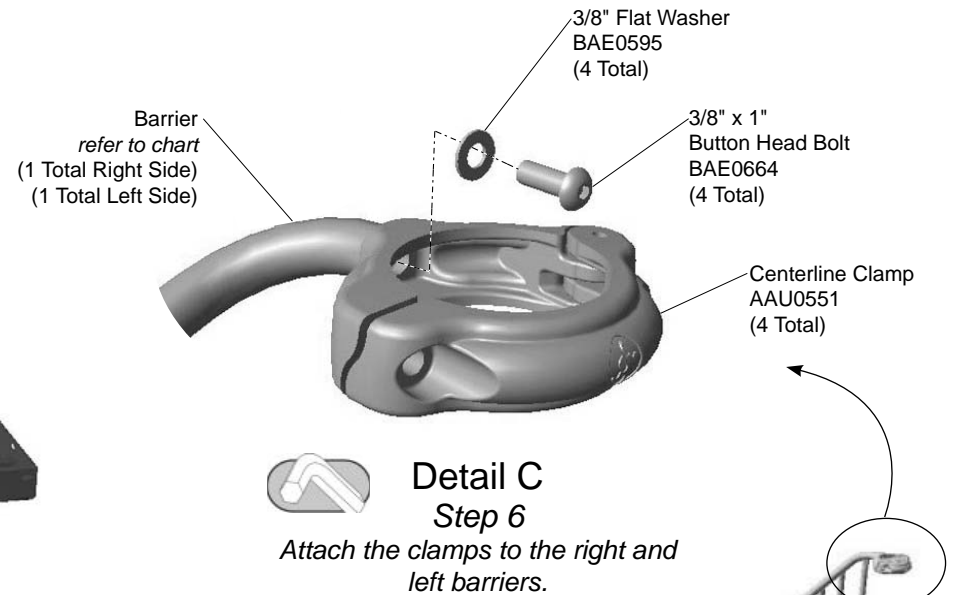
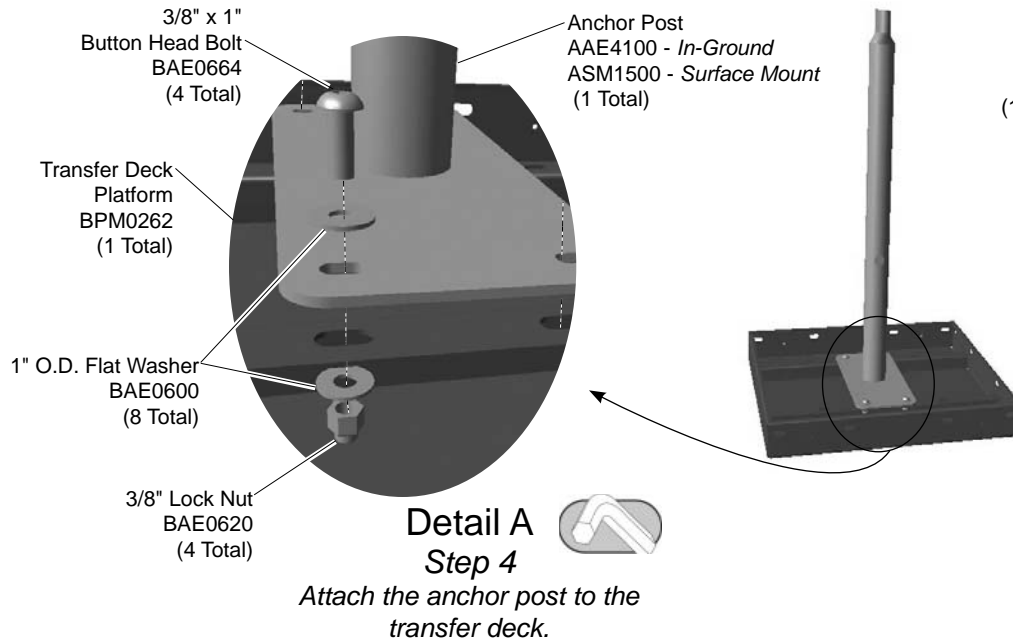


Elevation View  
PM2008S



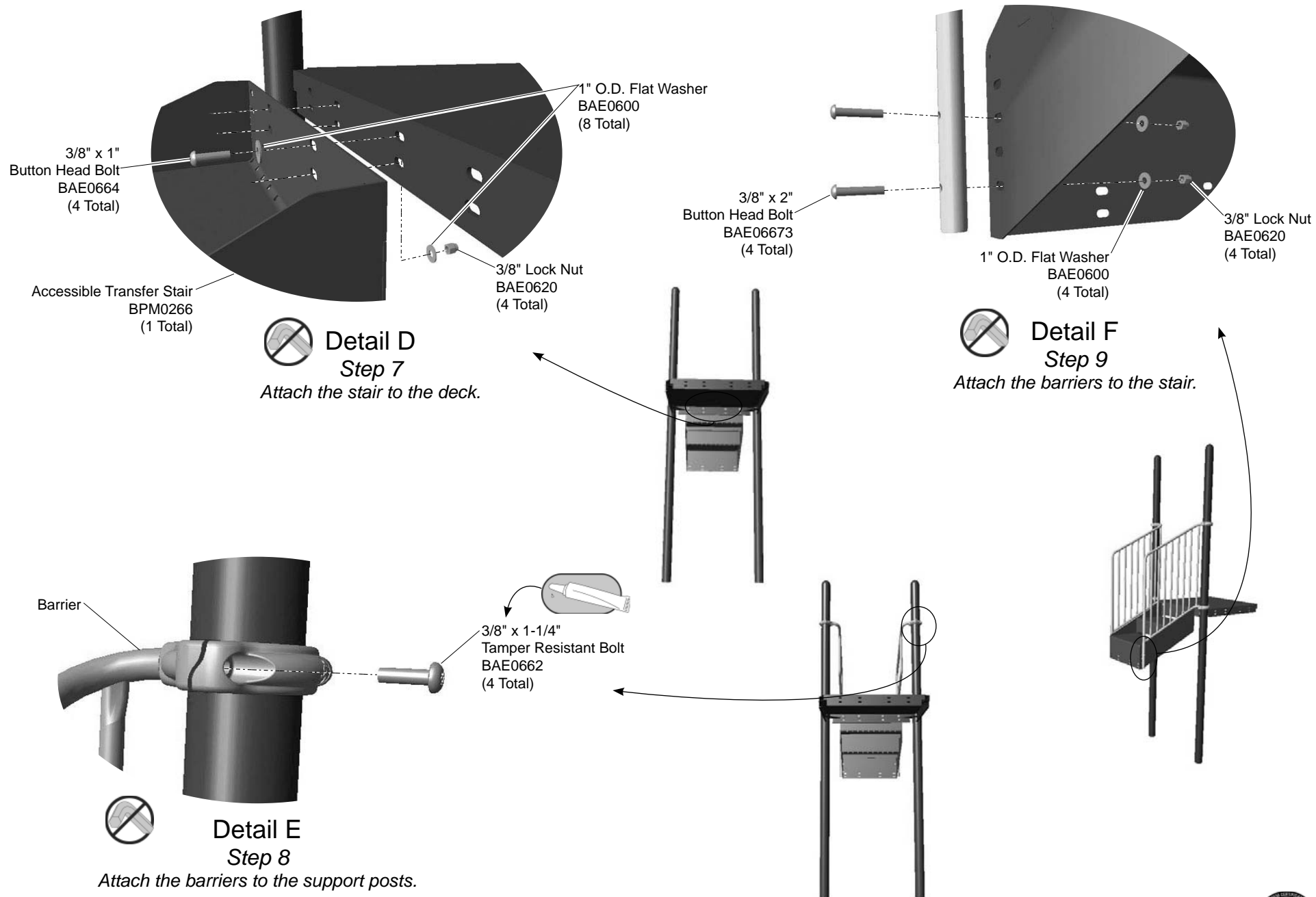
# Installation Instructions

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

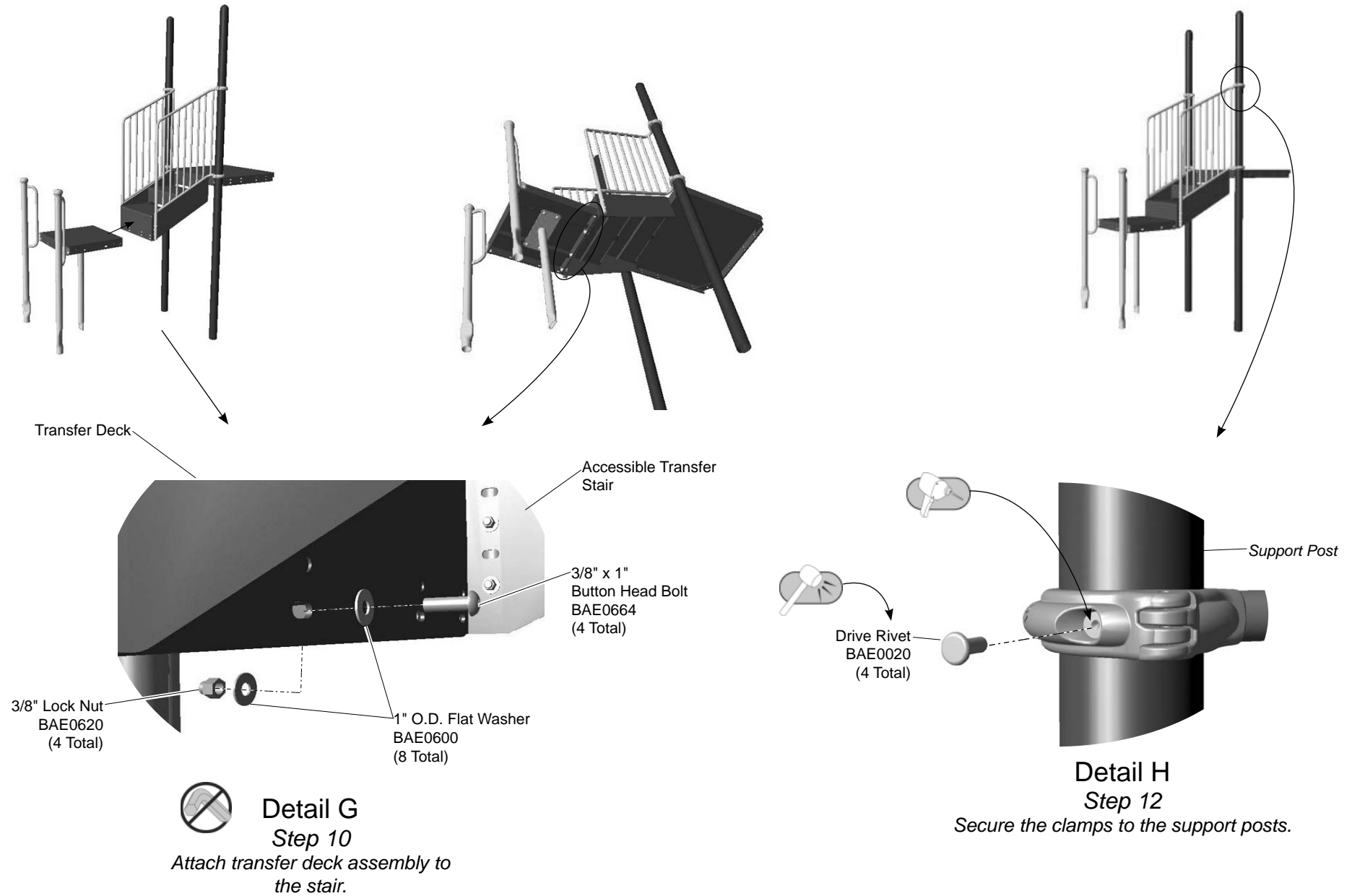


Part Number	Side	Barrier Part Number
ZZPM2008	Left	AEN0358
ZZPM2008	Right	AEN0357
ZZPM2008S	Left	AEN0358
ZZPM2008S	Right	AEN0357

# 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 *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

**Attach the anchor post to the transfer deck.**

**Step 4:** Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post 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**. 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 barriers.**

**Step 6:** Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and 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**. 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 barriers to the support posts.**

**Step 8:** Attach barriers to the support posts. See **Detail E** and **Elevation View**. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

**Attach barriers to the stair.**

The barriers 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 barriers should be mounted at the same height.

**Step 9:** Attach the barriers to the stair. See **Detail F**. Align the barrier 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 **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

**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.

# Installation Instructions

---

**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.

## ZZPM2008 - 36 in. (914 mm) TRANSFER STATION w/ BARRIERS

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0357	BARRIER - 29-3/16" x 8-1/4" x 61-7/32" (RIGHT)	1
AEN0358	BARRIER - 29-3/16" x 8-1/4" 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	4
BAE0595	WASHER - 3/8" SAE FLAT	4
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" TPR RESISTANT w/TORX DRV	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0266	STAIR - 21" ACCESSIBLE TRANSFER	1

## ZZPM2008S - 36 in. (914 mm) TRANSFER STATION w/ BARRIERS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0357	BARRIER - 29-3/16" x 8-1/4" x 61-7/32" (RIGHT)	1
AEN0358	BARRIER - 29-3/16" x 8-1/4" 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	4
BAE0595	WASHER - 3/8" SAE FLAT	4
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" TPR RESISTANT w/TORX DRV	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0266	STAIR - 21" ACCESSIBLE TRANSFER	1



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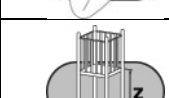


Assembly View

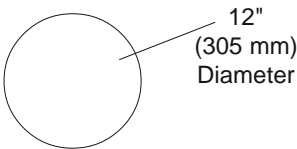
## Installation Instructions Universal Model UN2019 Platform Approach Step

### Installation Preparation

Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1 man-hour  
 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

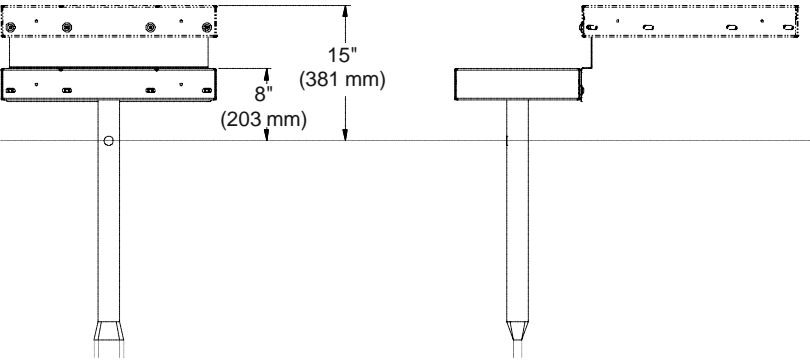
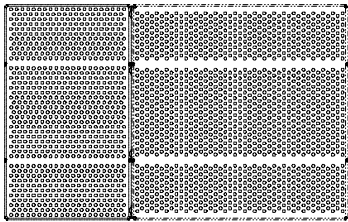
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

# Installation Instructions

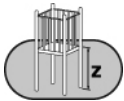


Footing Diagram

Top View



Elevation Views

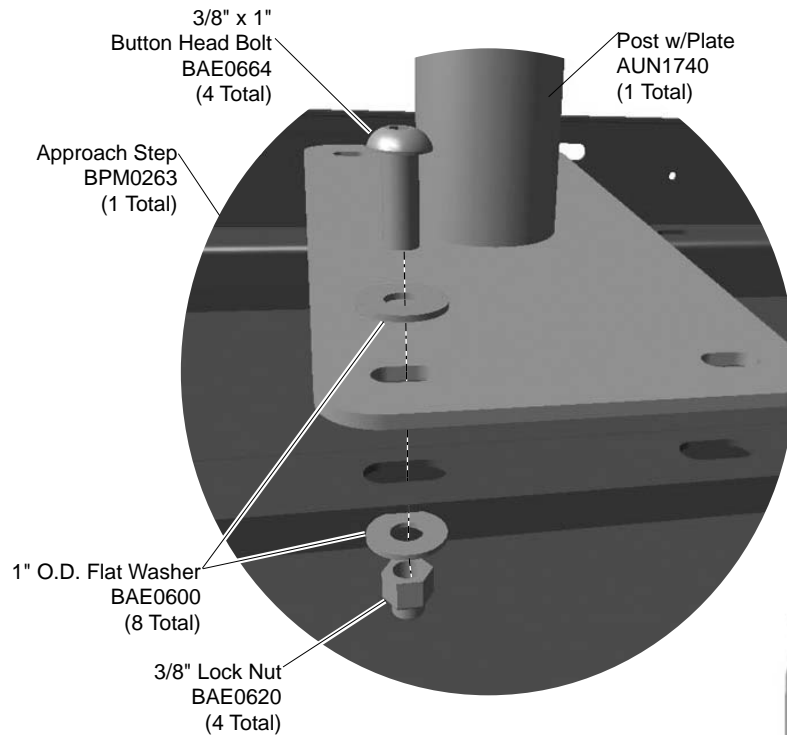


15" (381 mm)



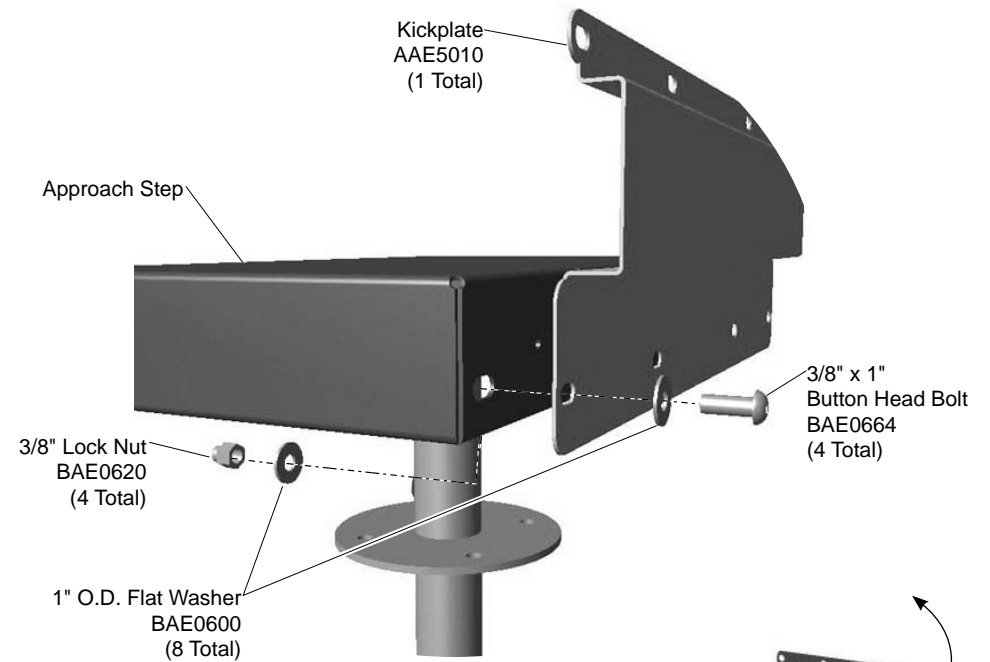
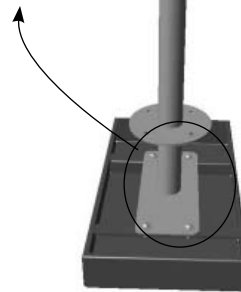
# Installation Instructions

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



## Detail A Step 4

Attach the anchor post to the approach step.

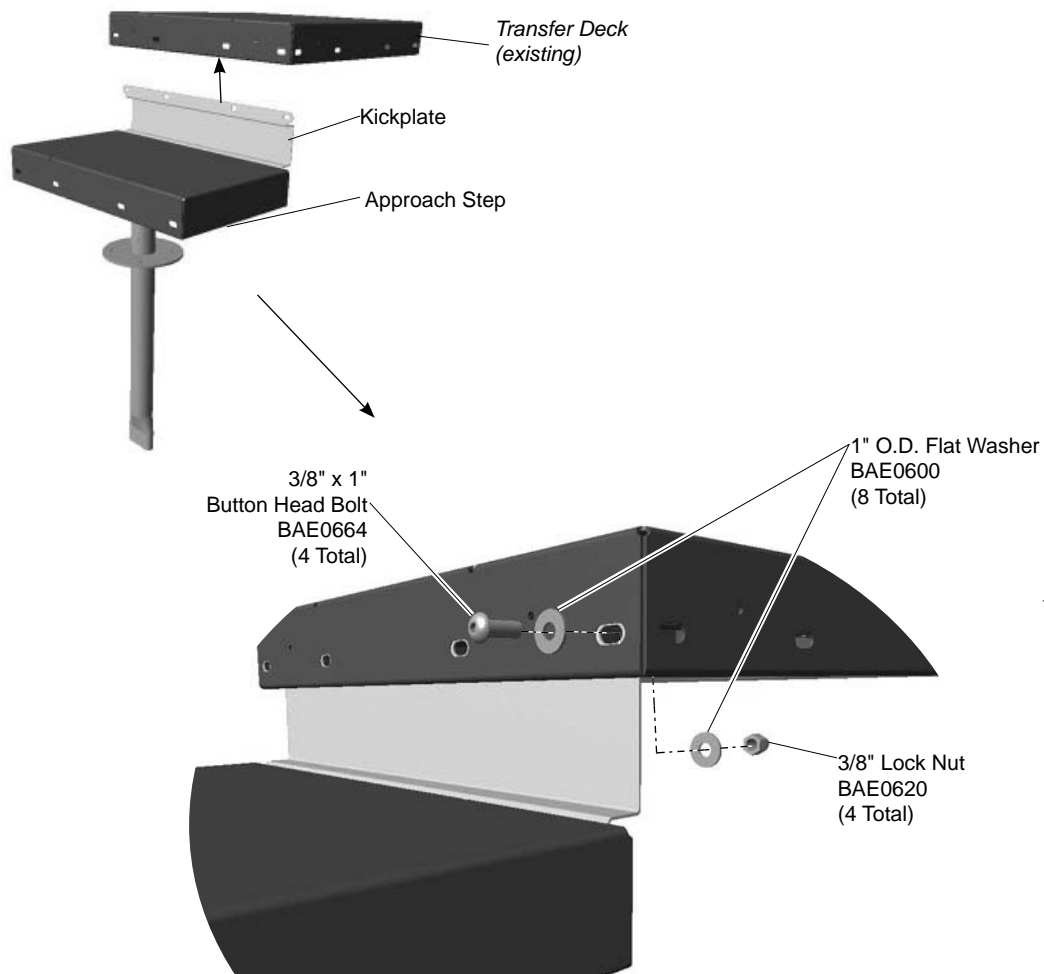


## Detail B Step 5

Attach the kickplate to the  
approach step.



# Installation Instructions



## Detail C Step 6

Attach the kickplate to the transfer deck.



## Step 7



# 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**. 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**. 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**. 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
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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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 Instructions

### Playmakers®

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

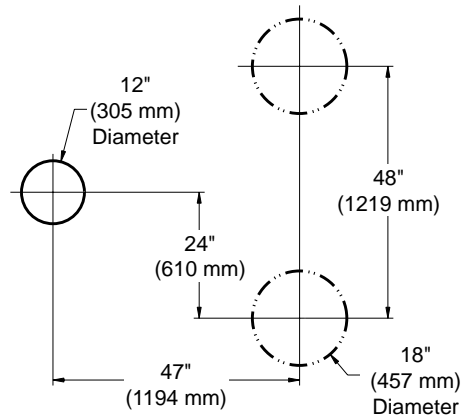
### Installation Preparation

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

### ICON KEY

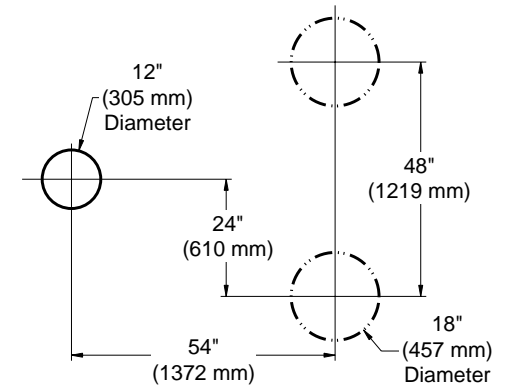
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

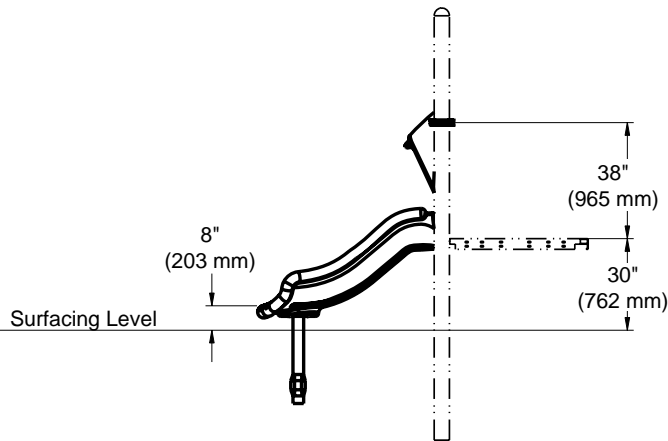
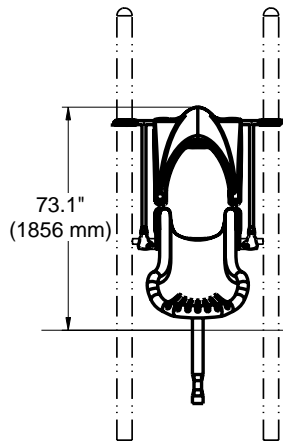


**Footing Diagram**

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

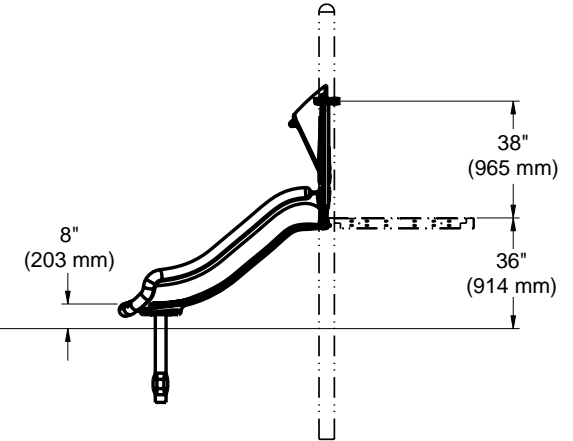
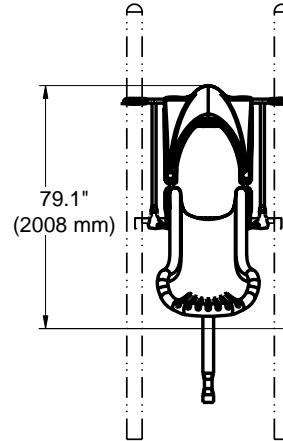


**Footing Diagram**



**Elevation View PM3128 - 30" Glide Slide**

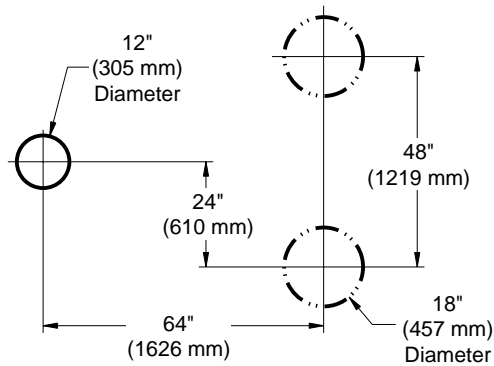
*(24" slide: exit will be 2" (50mm) above the surfacing level)*



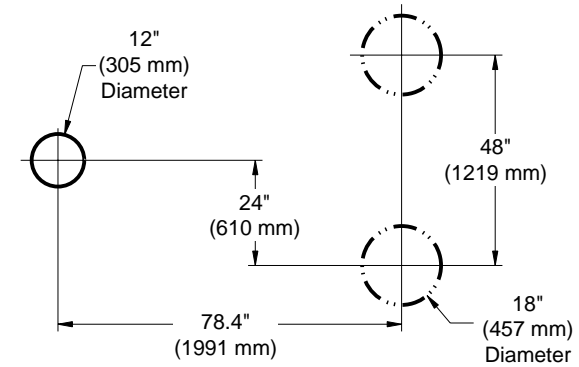
**Elevation View PM3127 - 36" Glide Slide**



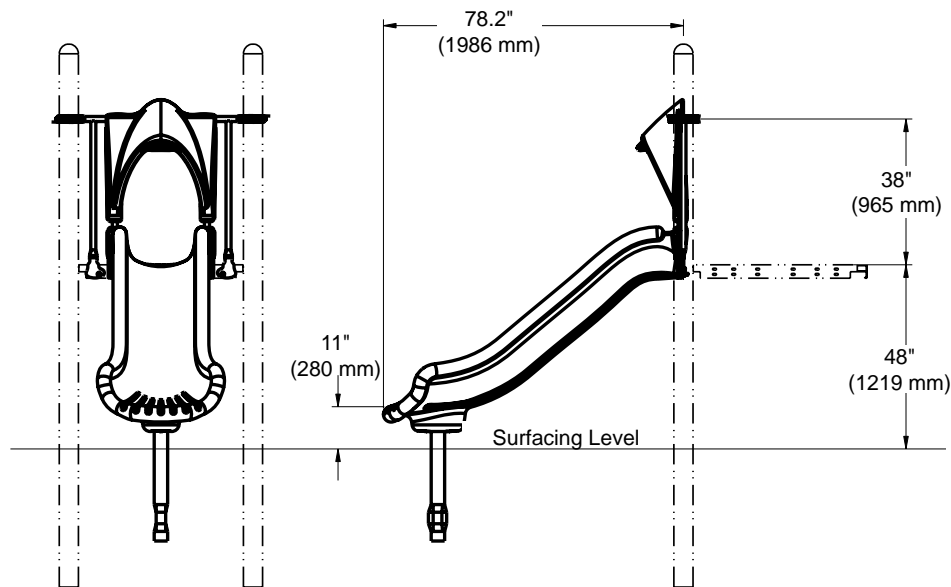
# Installation Instructions



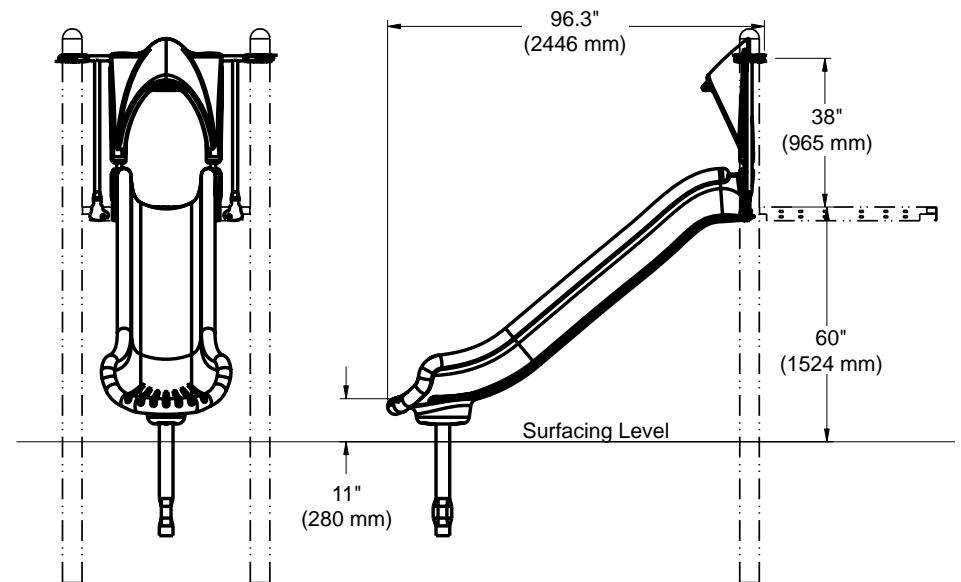
Footing Diagram



Footing Diagram

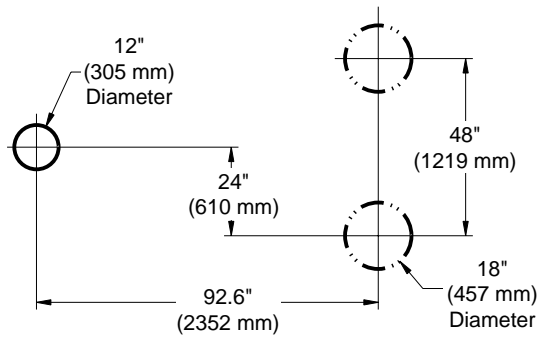


Elevation View PM3126 - 48" Glide Slide

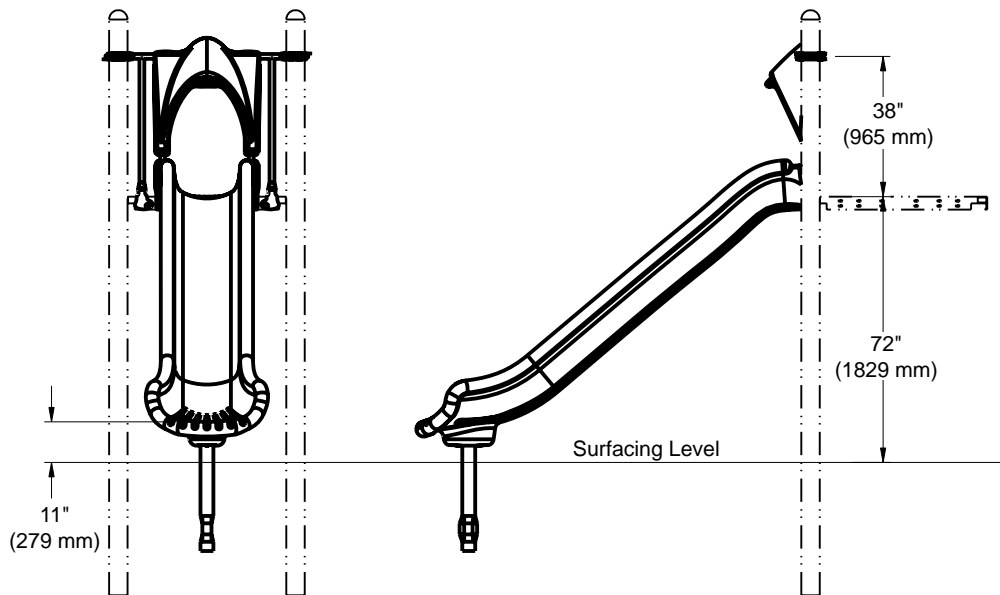


Elevation View PM2658 - 60" Glide Slide

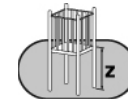
# Installation Instructions



Footing Diagram



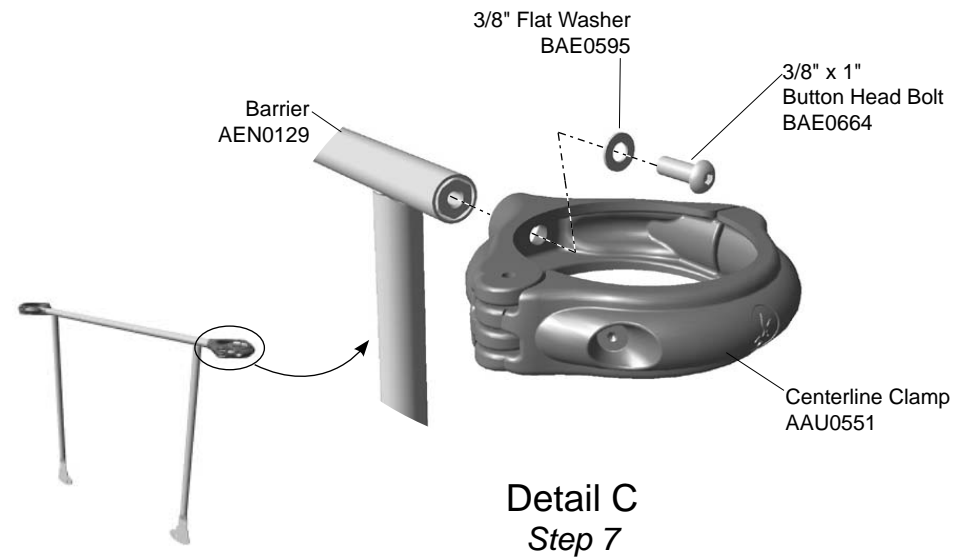
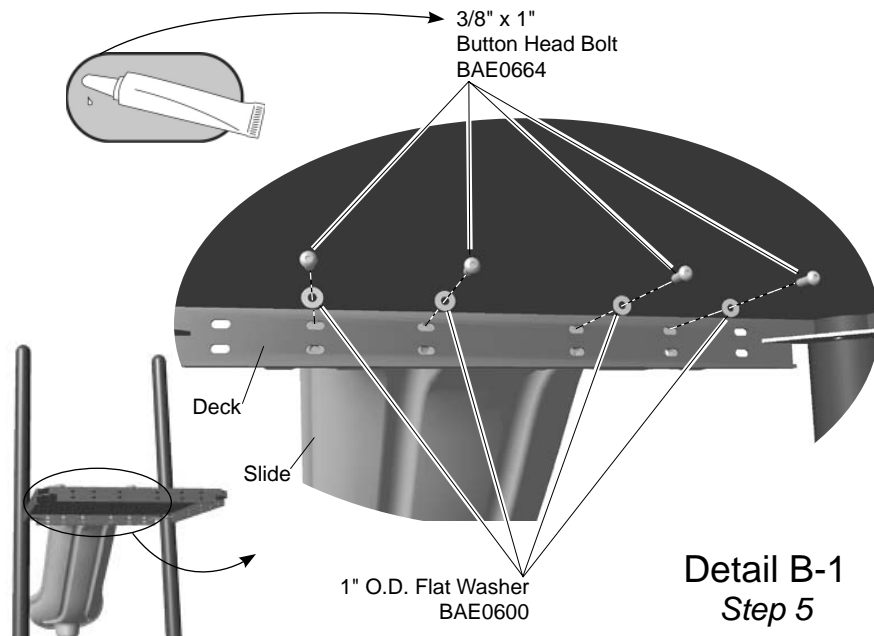
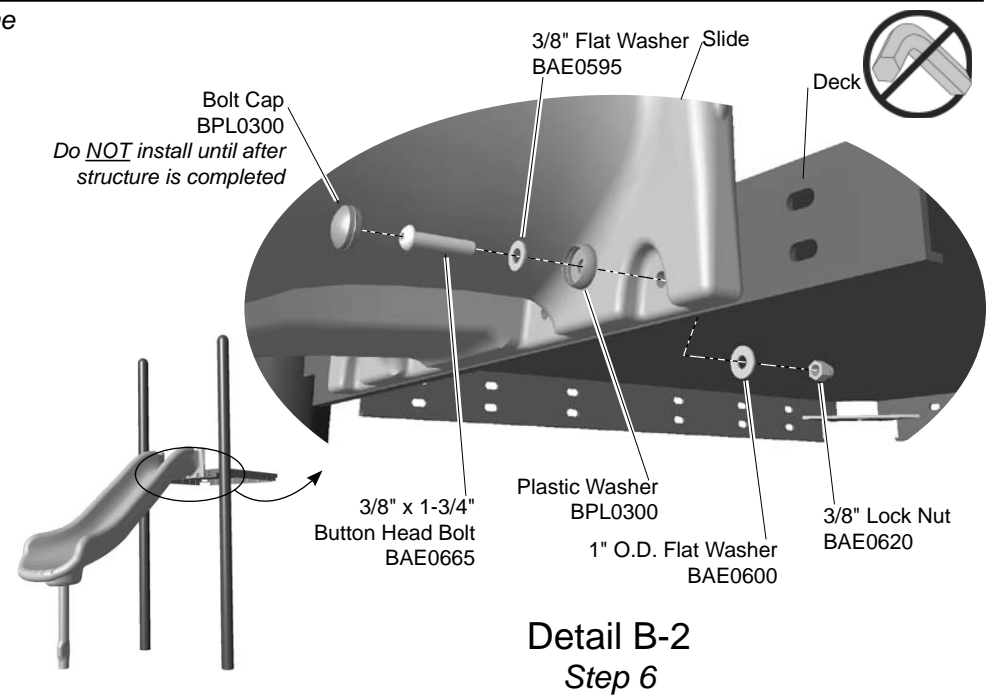
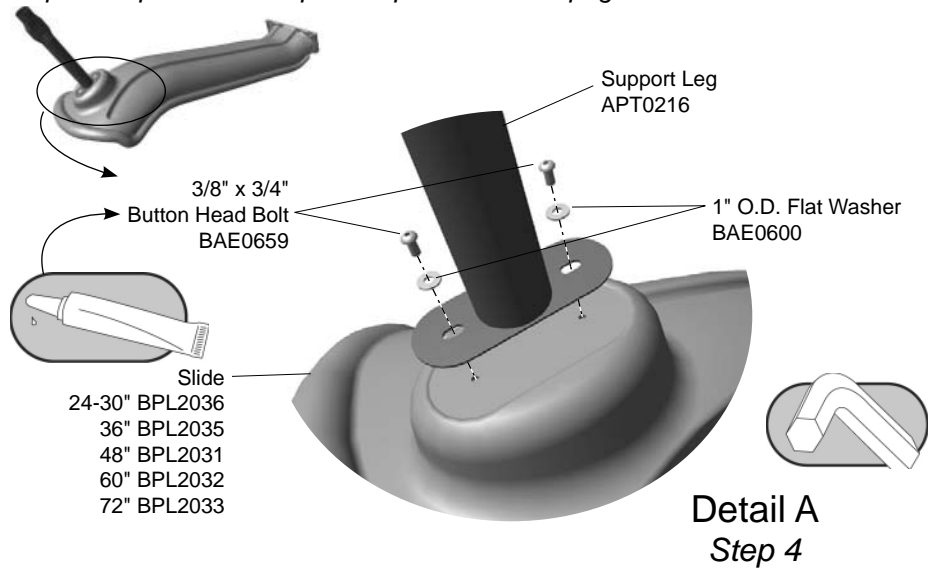
Elevation View PM2696 - 72" Glide Slide



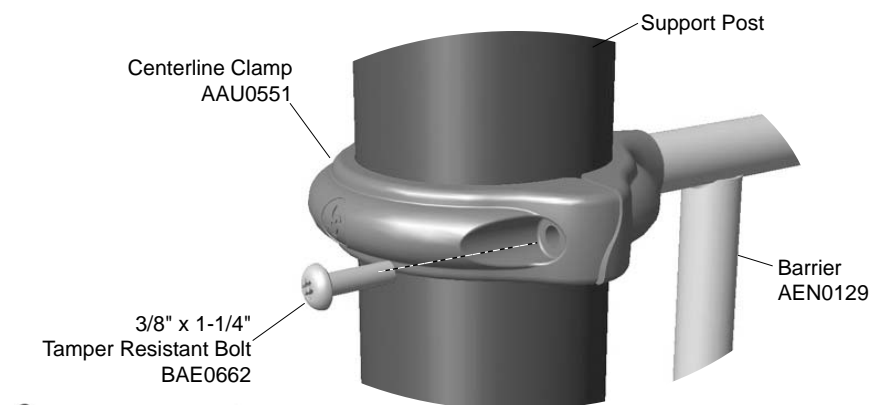
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

# Installation Instructions

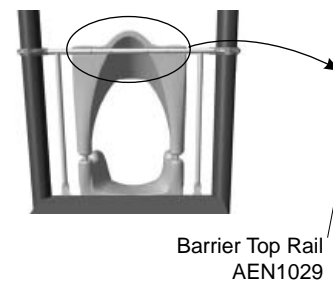
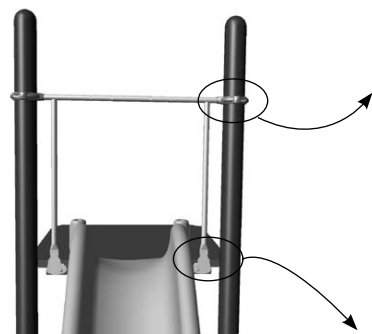
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



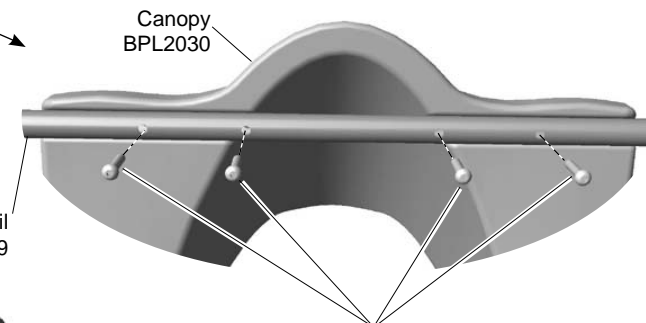
# Installation Instructions



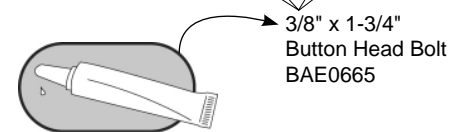
**Detail D-1**  
*Step 8*



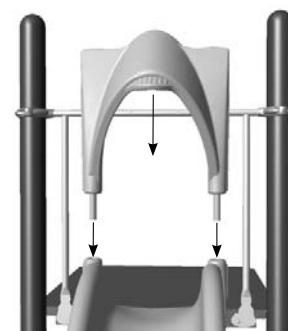
Barrier Top Rail  
AEN1029



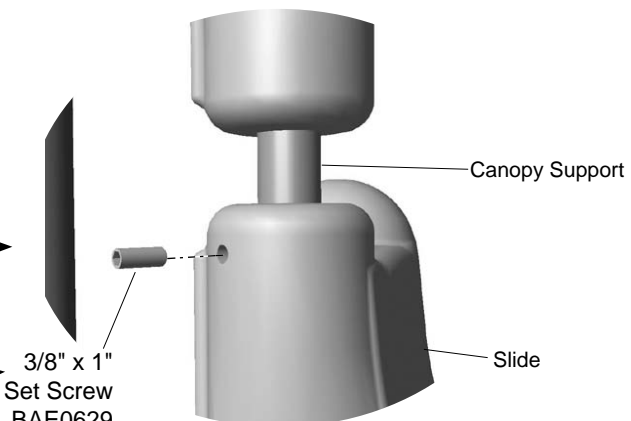
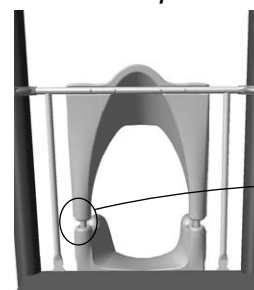
Canopy  
BPL2030



**Detail E-2**  
*Step 10*



**Detail E-1**  
*Step 10*

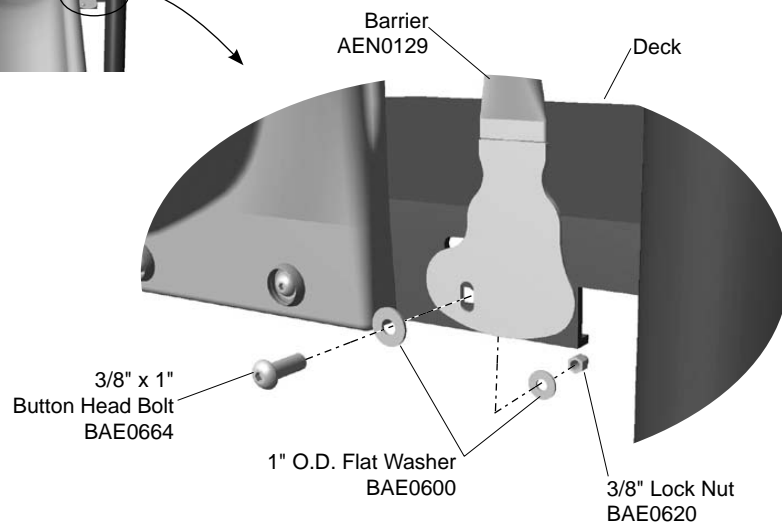


Canopy Support

Slide

3/8" x 1"  
Set Screw  
BAE0629

**Detail F**  
*Step 11*

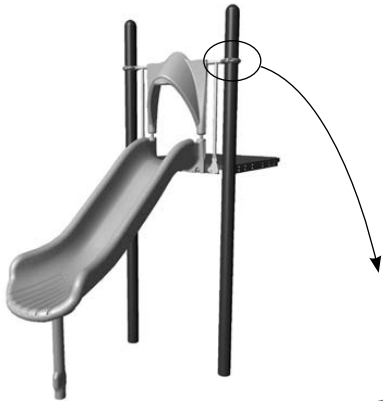


**Detail D-2**  
*Step 9*

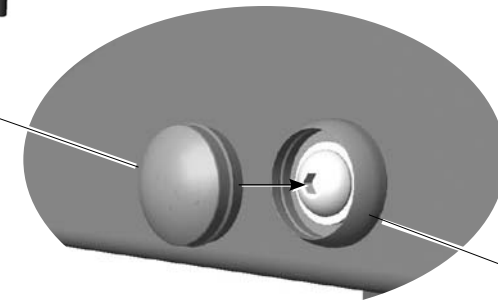
# Installation Instructions



Step 12

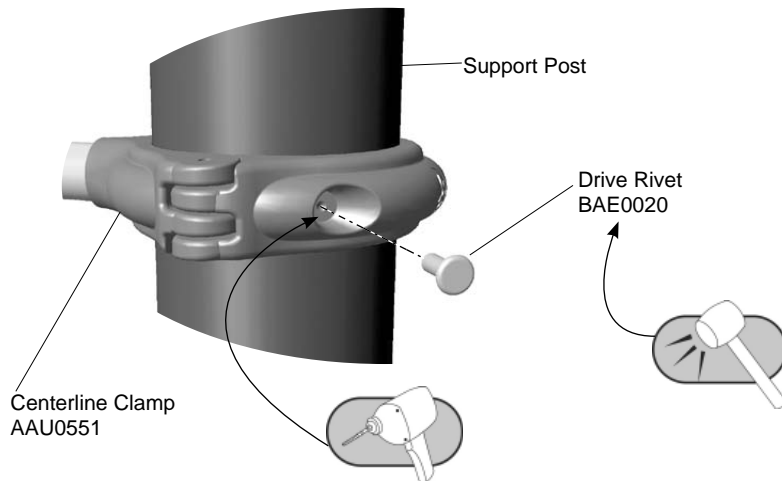


Bolt Cap  
BPL0300



Plastic Washer  
BPL0300

Detail H  
Step 14  
(refer to Detail B-2 also)



Centerline Clamp  
AAU0551

Drive Rivet  
BAE0020

Detail G  
Step 13

# 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 bedway 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

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\_\_**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.

## 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

## 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

## 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

## 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



## 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" TMRP 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

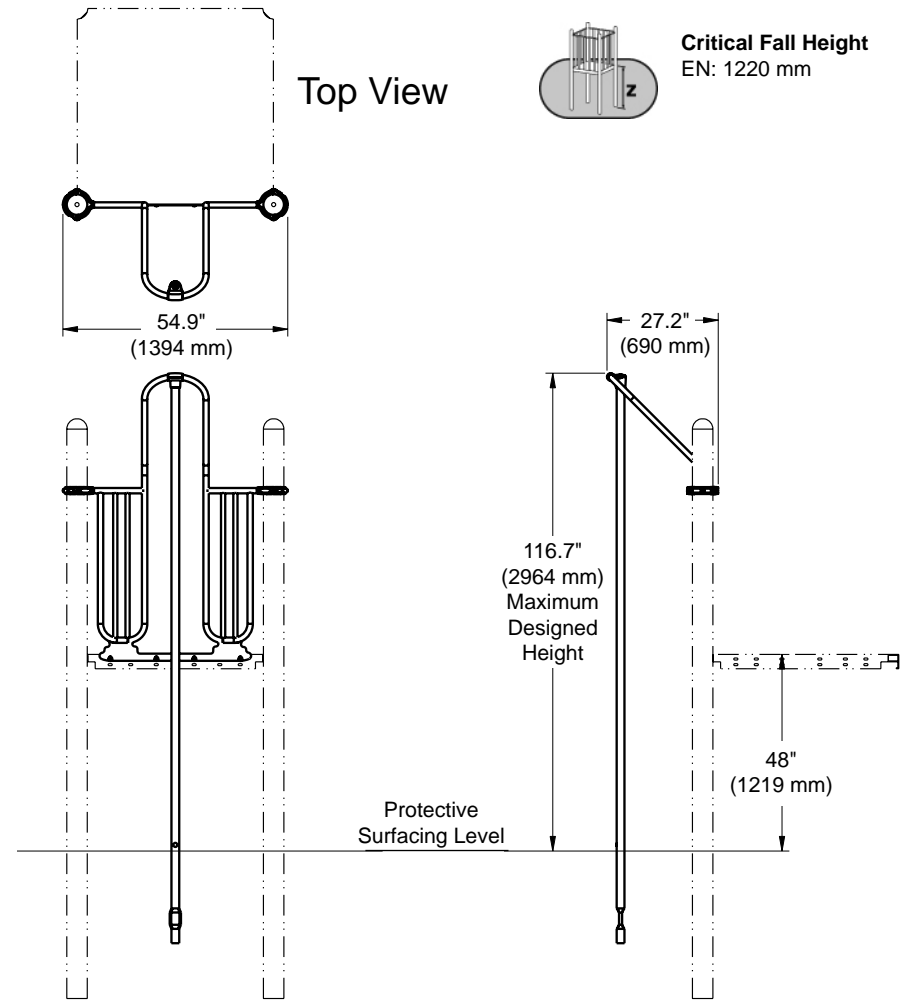
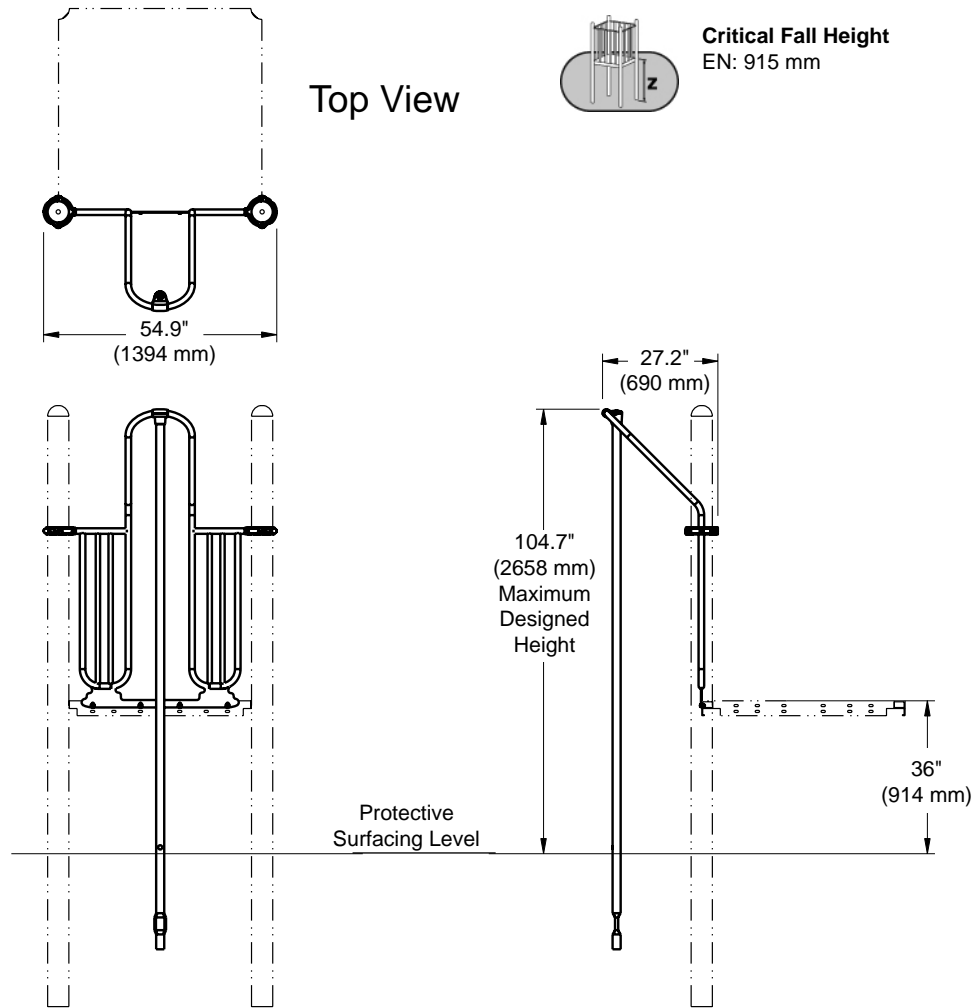
## Installation Preparation

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

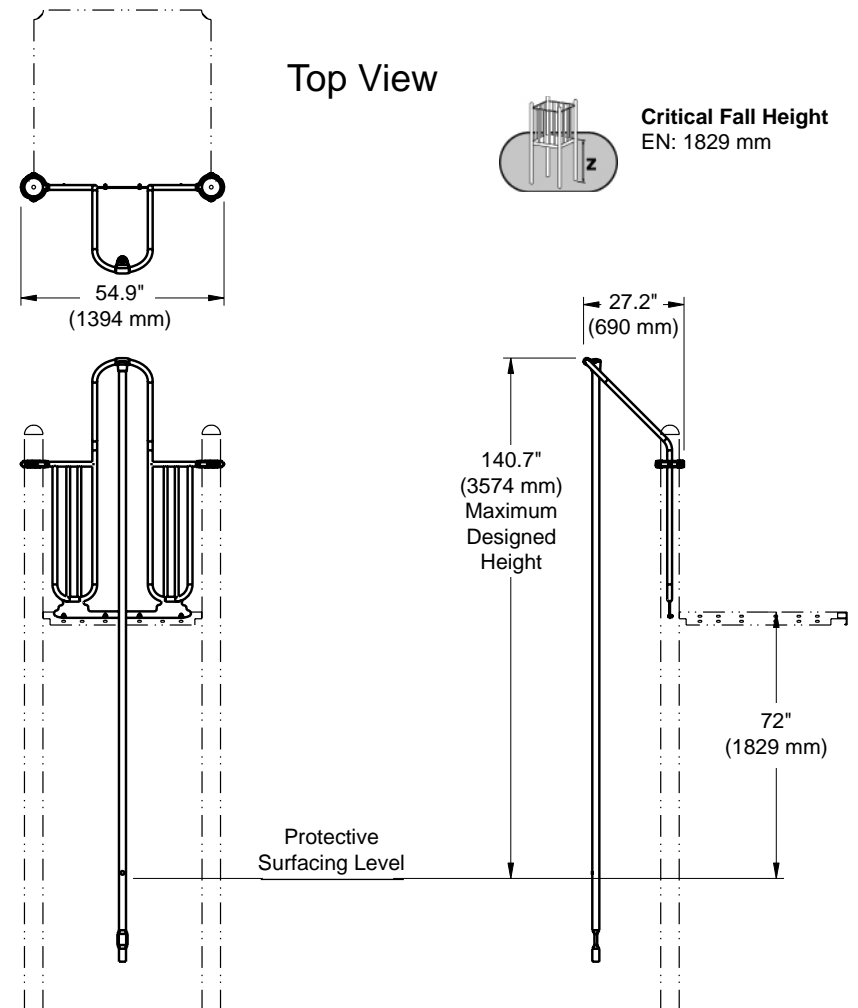
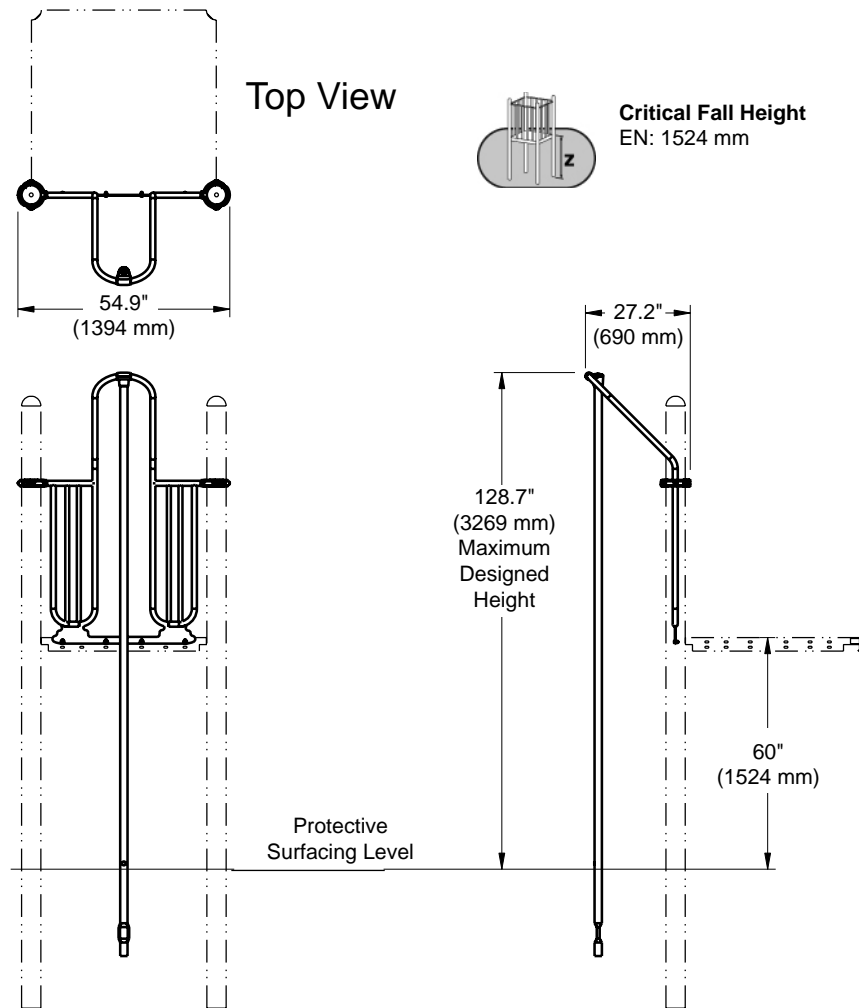
## ICON KEY

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

# Installation Instructions

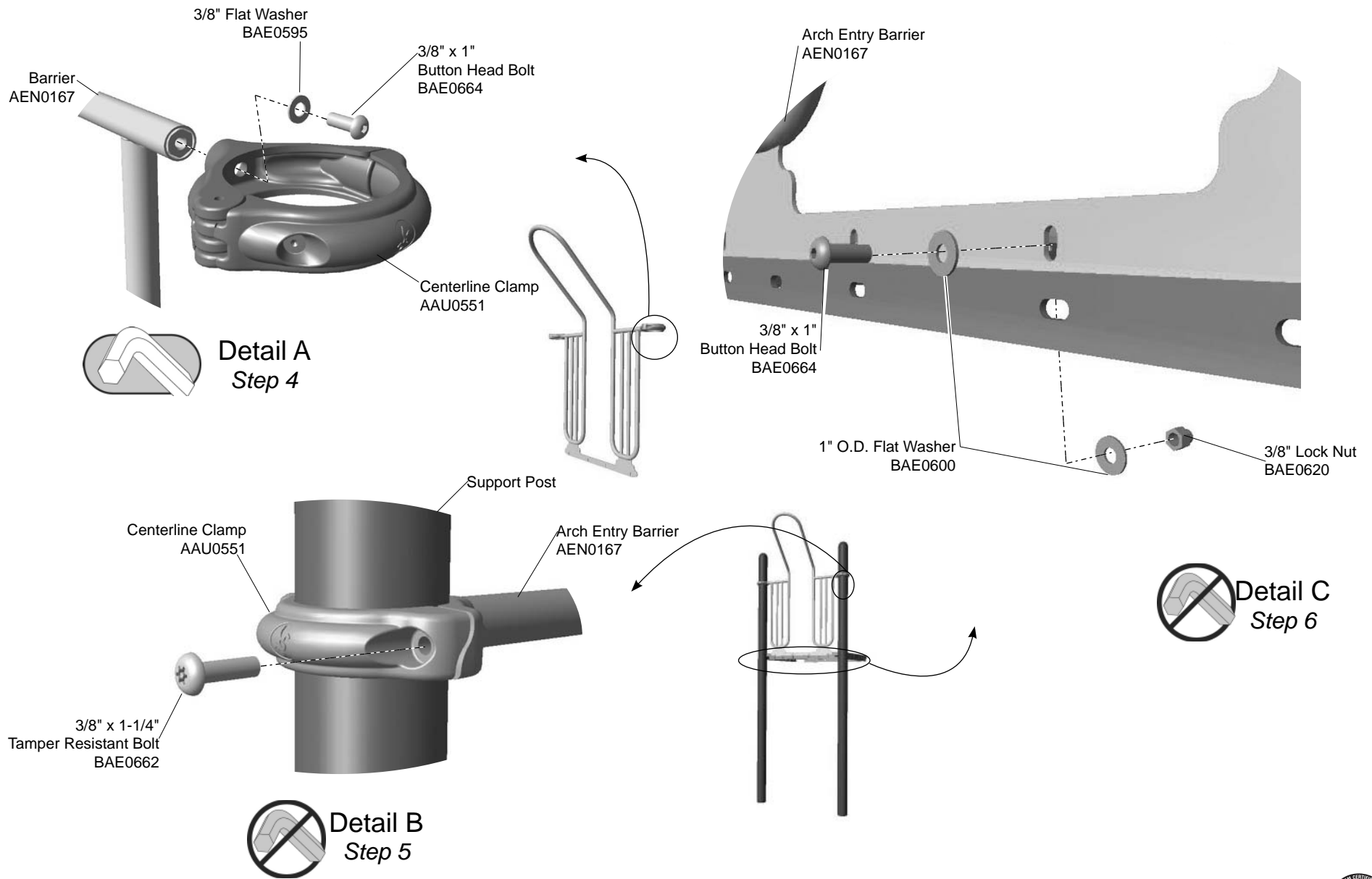


# Installation Instructions

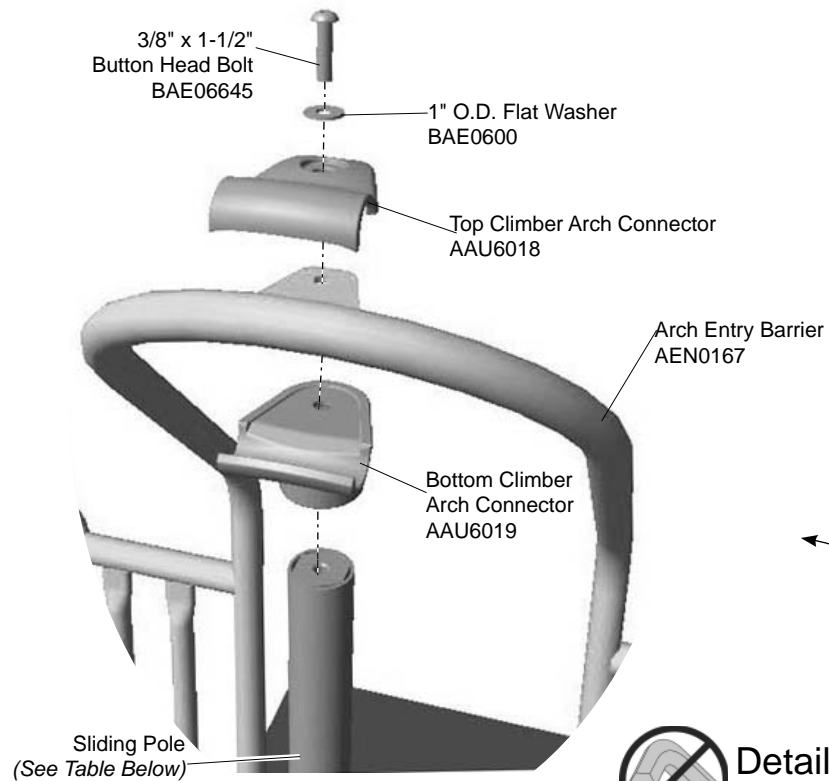


# Installation Instructions

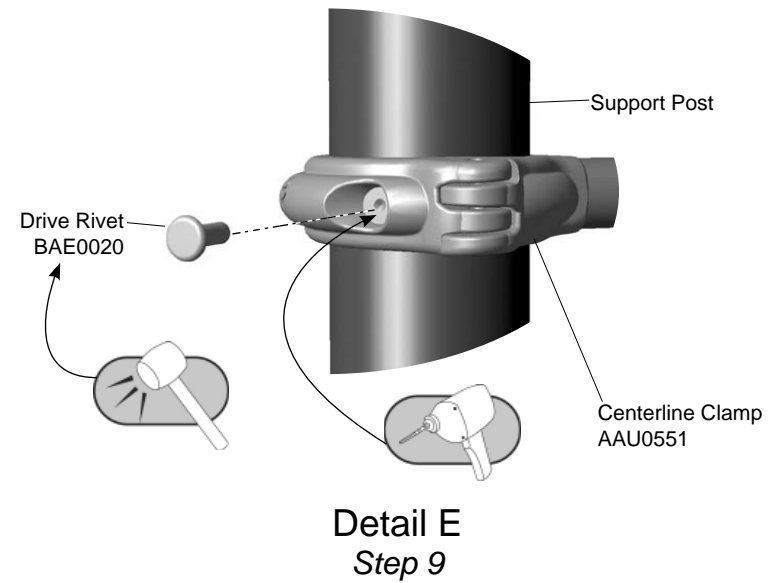
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



# 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

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**\_\_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 (ZZPM8060)

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 48 in. (1219 mm) DECK (ZZPM8070)

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 60 in. (1524 mm) DECK (ZZPM8080)

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 72 in. (1829 mm) DECK (ZZPM8090)

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 PM4570  
PlaySeat

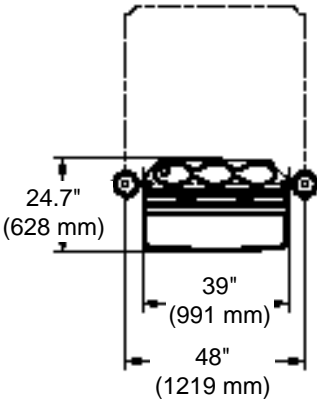
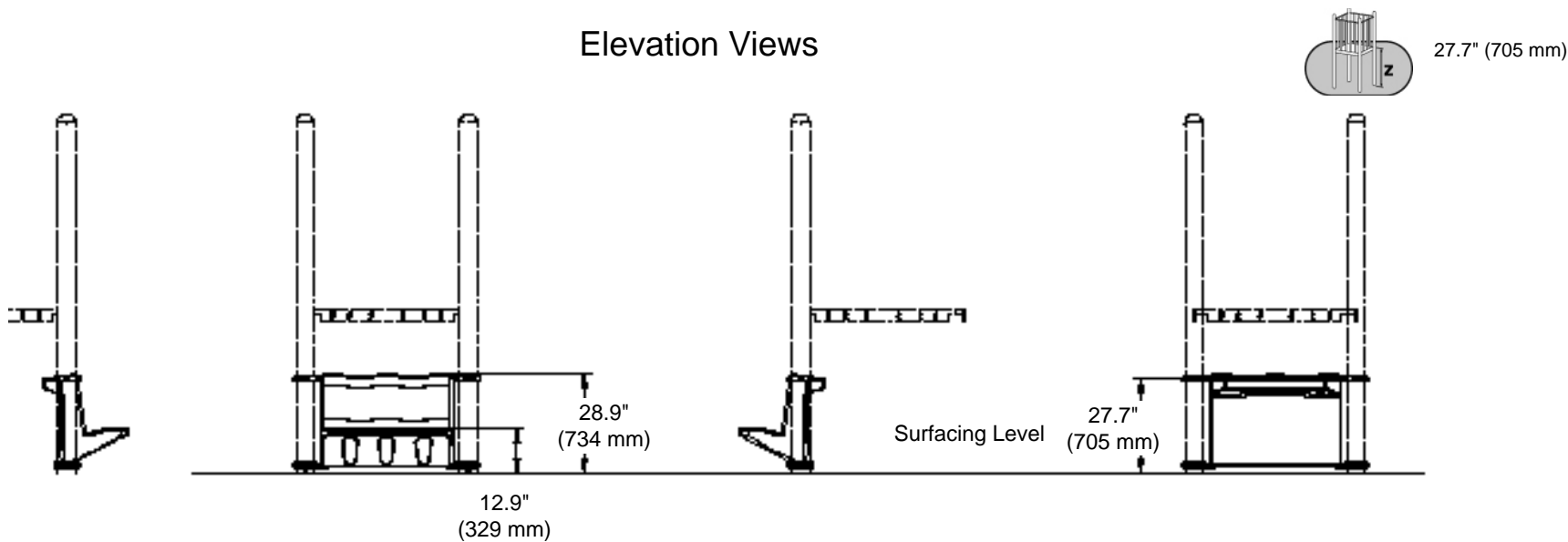
**Installation Preparation**

Recommended Crew: ..... One (1) adult  
Installation Time: ..... 0.5 hour  
Weight: ..... 51 lbs. (23.2 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

# Installation Instructions

## Elevation Views

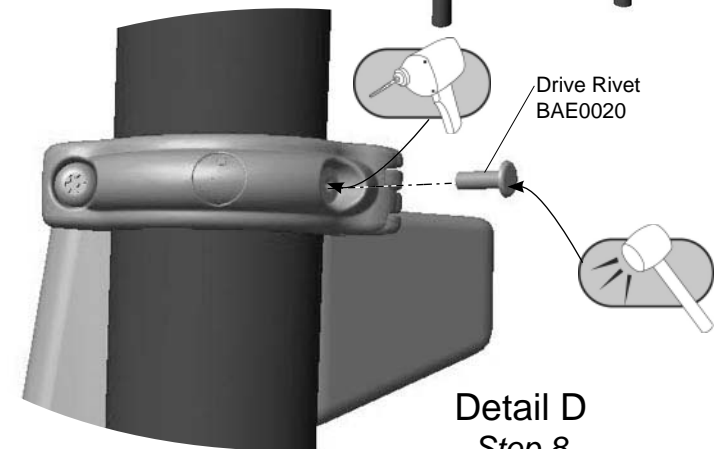
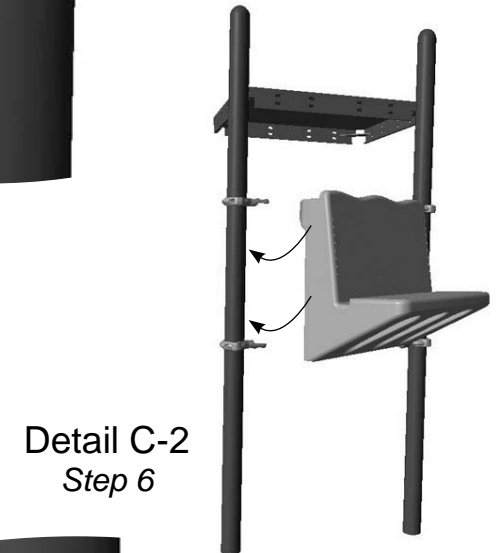
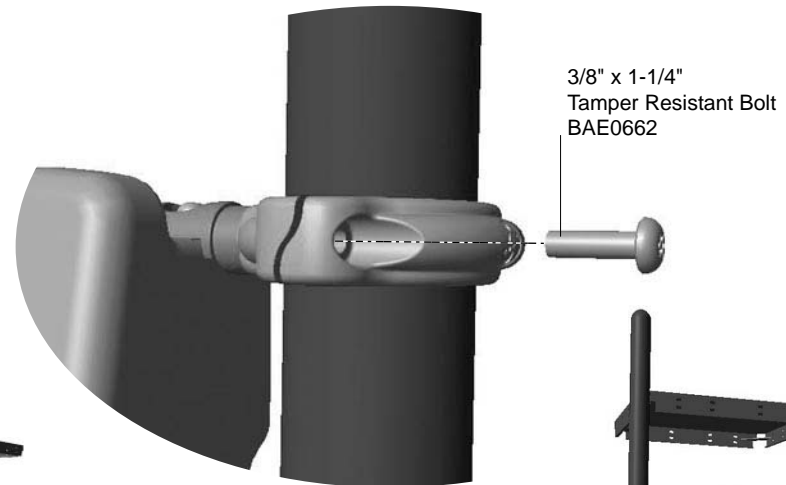
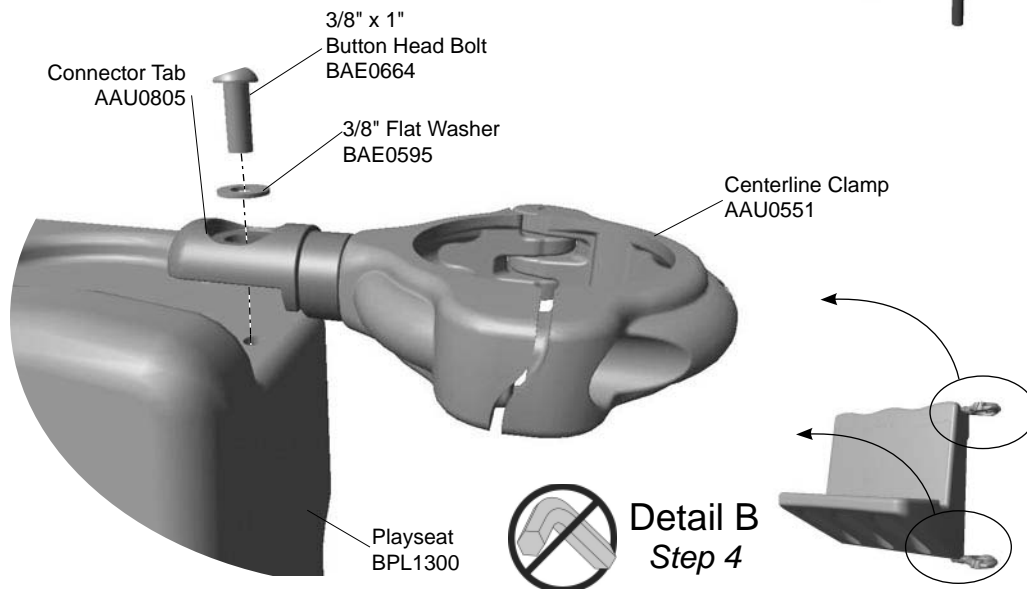
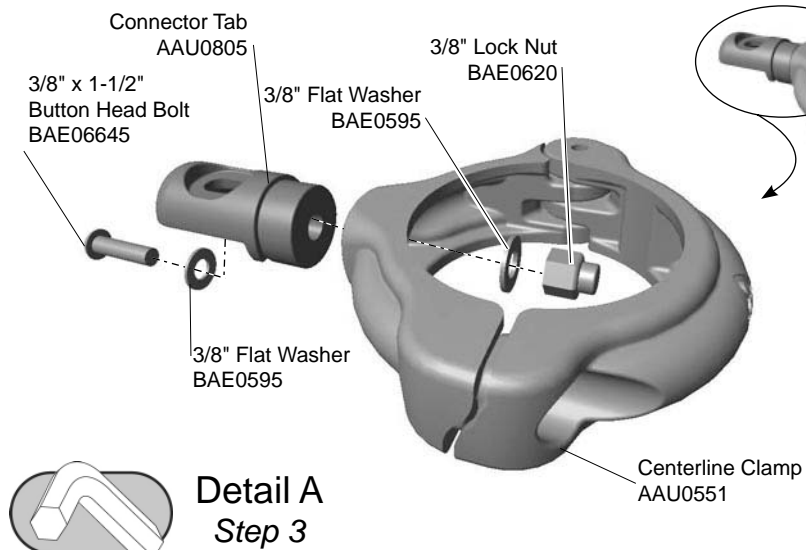


## Top View



# 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 a connector tab to all clamps.**

**Step 3:** Attach a connector tab to all clamps. See **Detail A**. Select centerline clamps, connector tabs, and the appropriate hardware. There are (4) four connections. Position round end of each connector tab against the neck of a clamp. Attach as shown. Do not fully tighten the connections.

**Attach the clamps to the seat.**

**Step 4:** Attach clamps to right hand side of the seat only. See **Detail B**. Select clamp assemblies and the appropriate hardware. The clamp hinge should face the back of the seat. Turn the tab so that the flat surface is positioned against the seat. Align the clamp and connector tab with the top or bottom backrest portion of seat. Apply a drop of loctite to the bolt threads attach as shown into the seat backrest.

**Attach the seat to the support post.**

**Step 5:** Attach the seat to the right support post. See **Detail C-1 and C-2 and Assembly View**. Select the appropriate hardware. There are (2) two connections. Close the right hand clamps around the post. Insert and thread the bolts into the clamps. Snug tighten the connection only. The clamps may have to be moved up or down to properly position the seat.

**Attach the left side clamps to the post and seat.**

**Step 6:** Attach the remaining (2) two clamp assemblies to the left support post following the directions in *Step 5*. See **Detail C-1**. There are (2) two connections. Position the tabs so that the flat side faces down for the top clamp and up for the bottom clamp. Do not fully tighten the clamps to the post. Swing the seat into position between the posts with one clamp above and one below the seat. See **Detail C-1**. Attach the clamps to both the upper and lower left hand corners of the seat in the same manner as described in *Steps 4 and 5*. There are (2) two connections.

**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.

## PM4570 - PLAYSEAT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0805	TAB - 1-9/16" DIAMETER x 3" LONG	4
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	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
BPL1300	SEAT 39" LONG	1



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Assembly View

Installation Instructions  
Playmakers® Model PM4646  
Storefront Panel

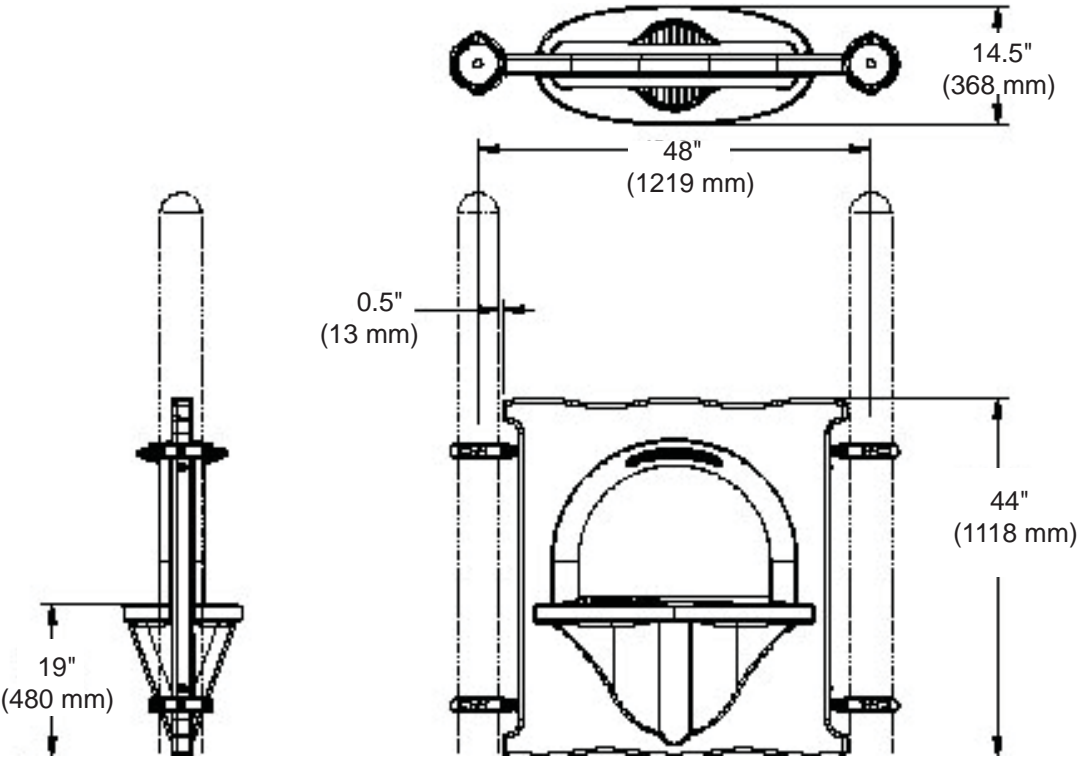
**Installation Preparation**

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

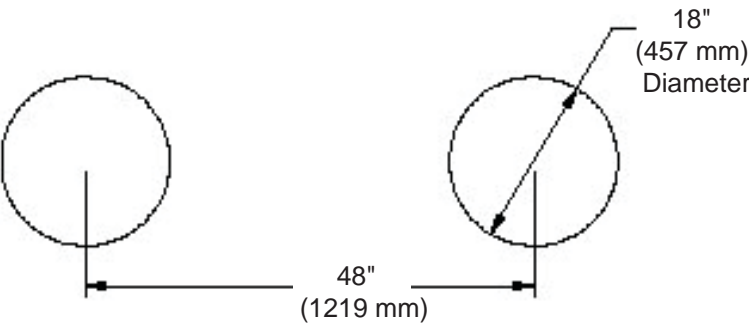
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

# Installation Instructions

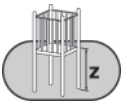
Top View



Footing Diagram



Elevation Views

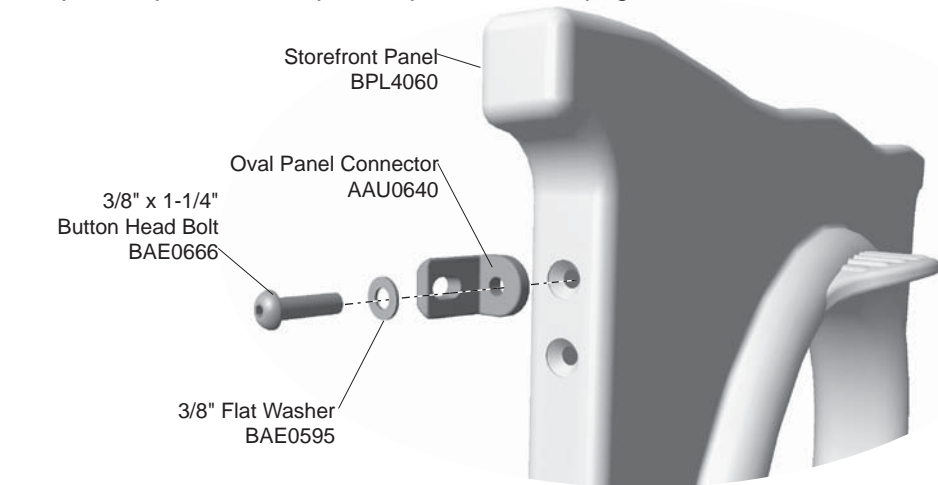


EN: 480 mm

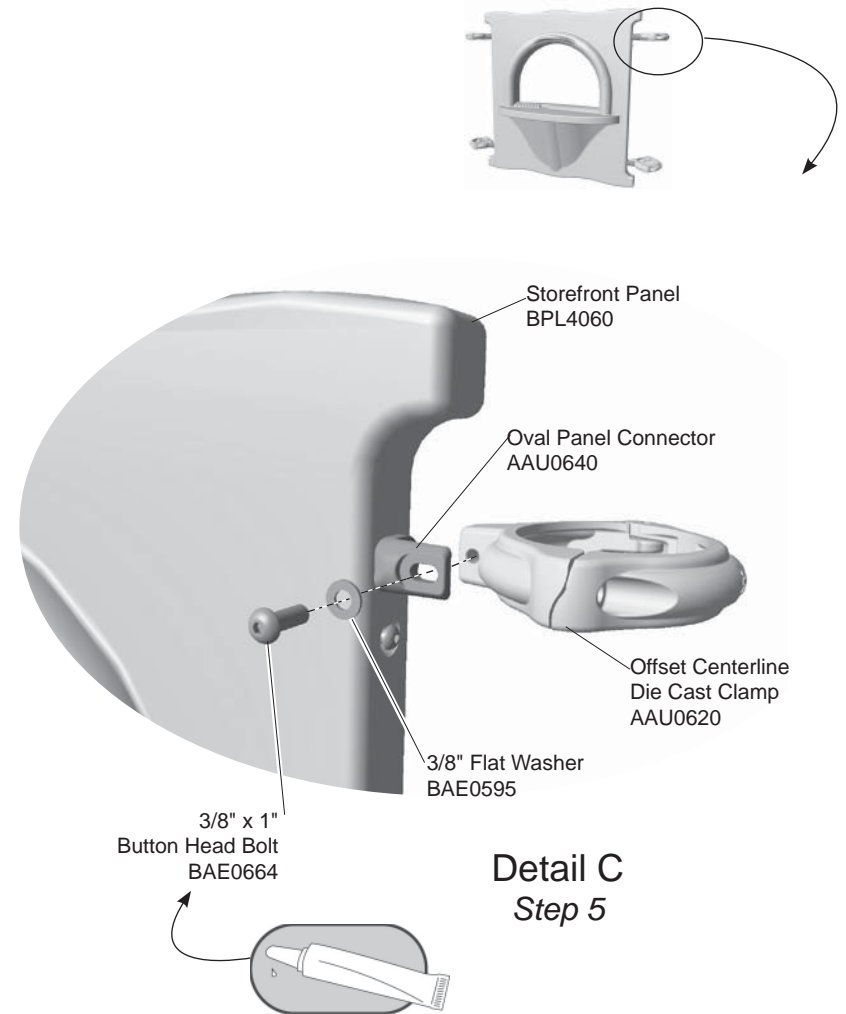
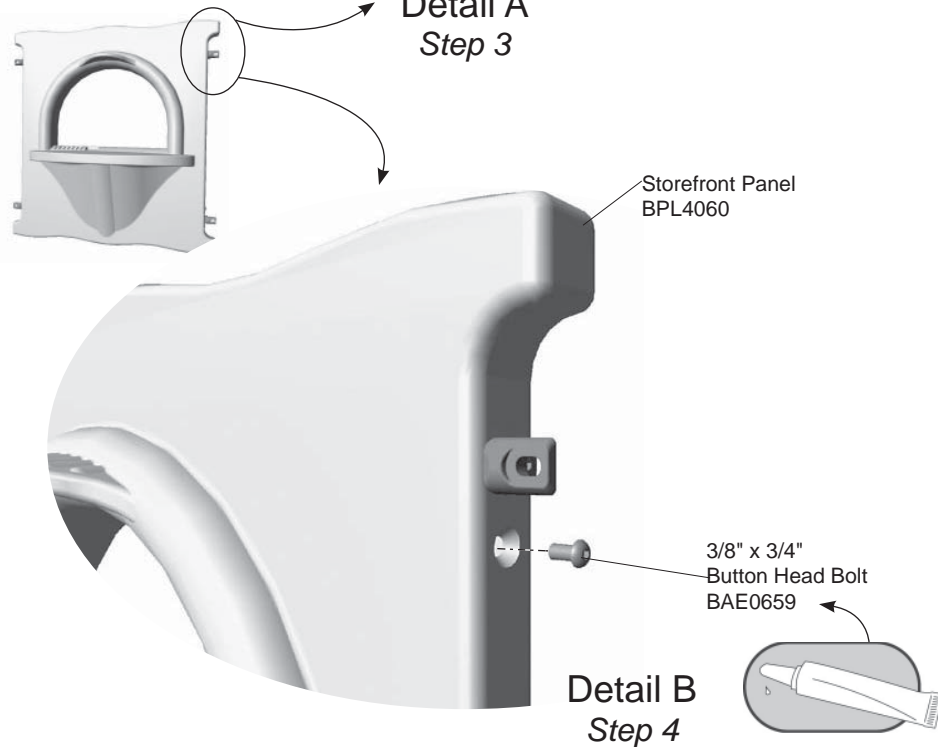


# Installation Instructions

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

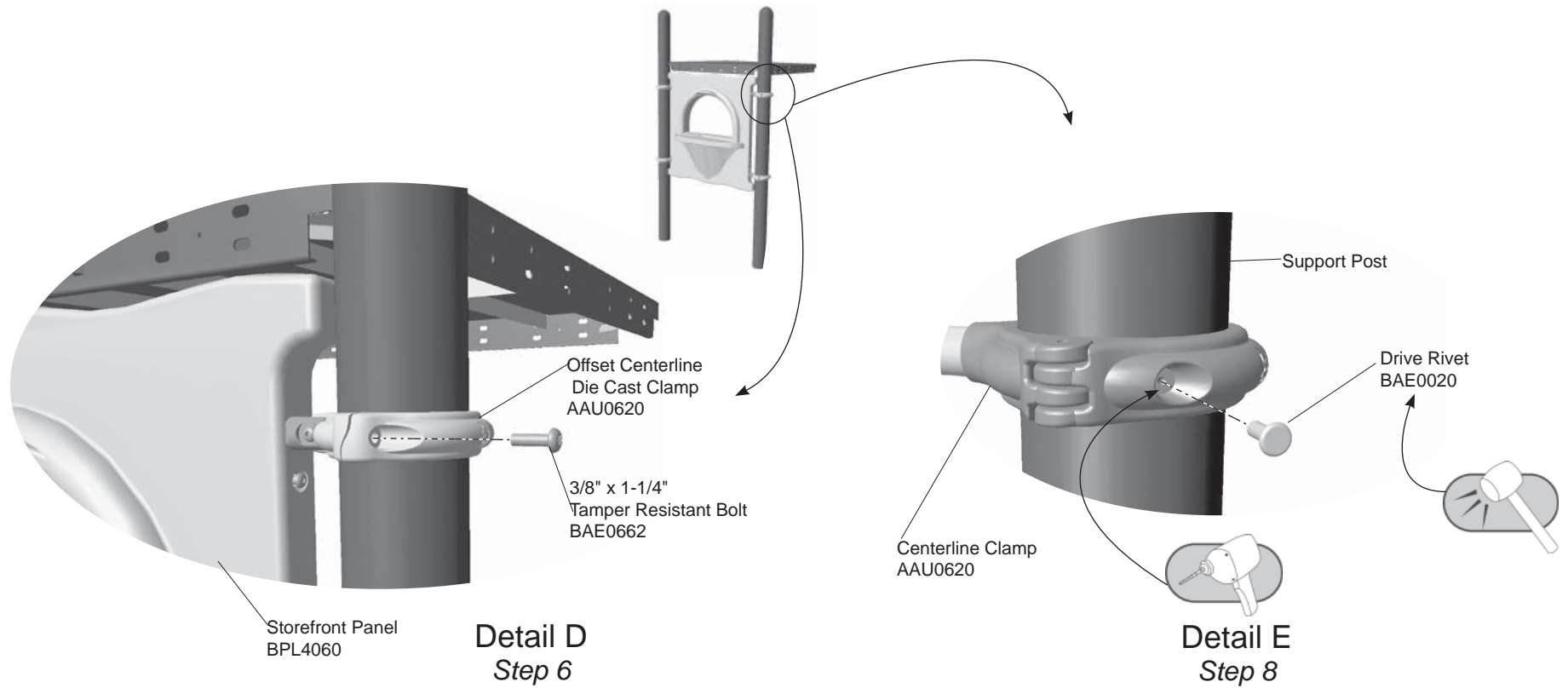


**Detail A**  
Step 3





# 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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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




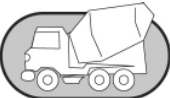


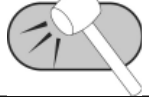
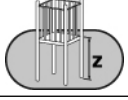
Universal Models UN4279, UN4280,  
UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) &  
Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

### Installation Preparation

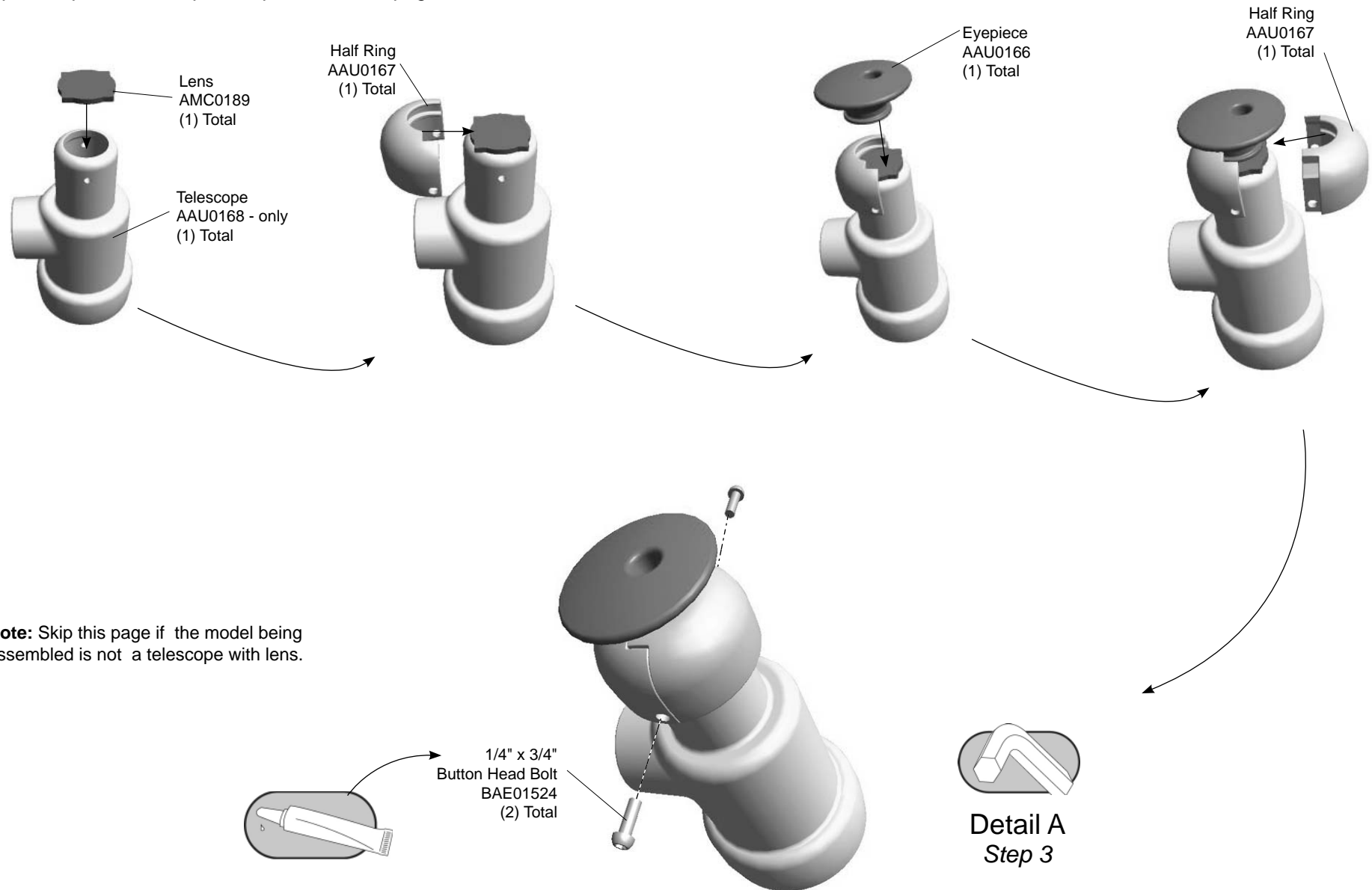
Recommended Crew: ..... One (1) adult  
 Installation Time: ..... 0.5 hour  
 Weight: ..... (refer to table)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

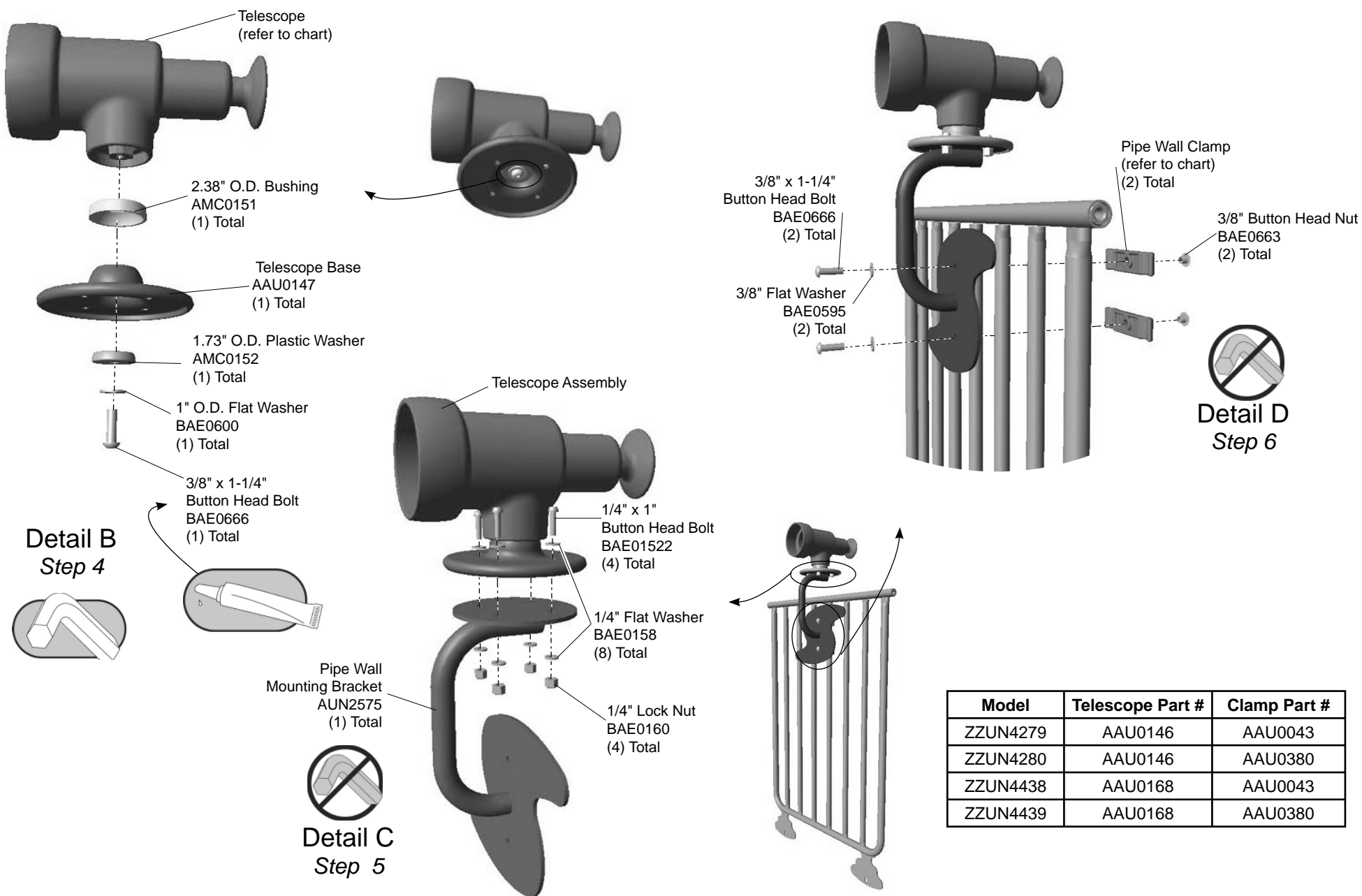
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

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



# 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.

**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

## 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








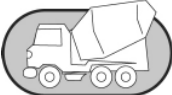
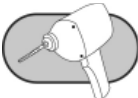


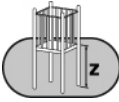


Assembly View

Installation Instructions  
Playmakers® Model PM4090  
Centerline Pipe Wall Barrier

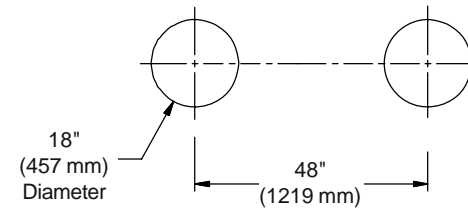
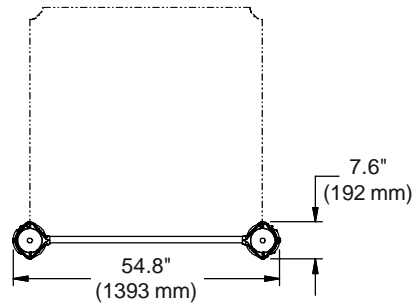
Installation Preparation

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

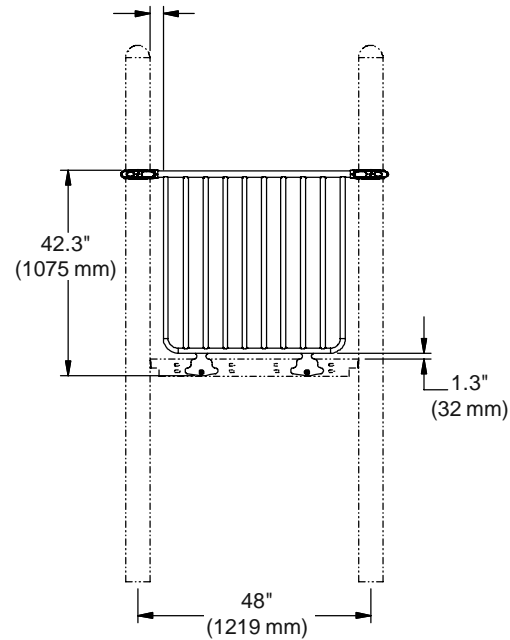
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

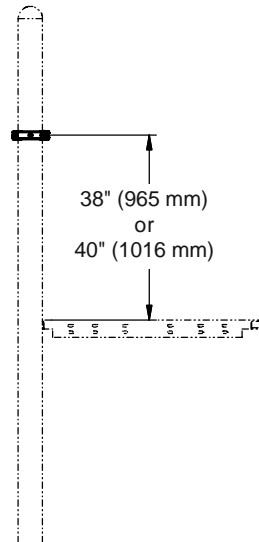
Top View



Footing Diagram

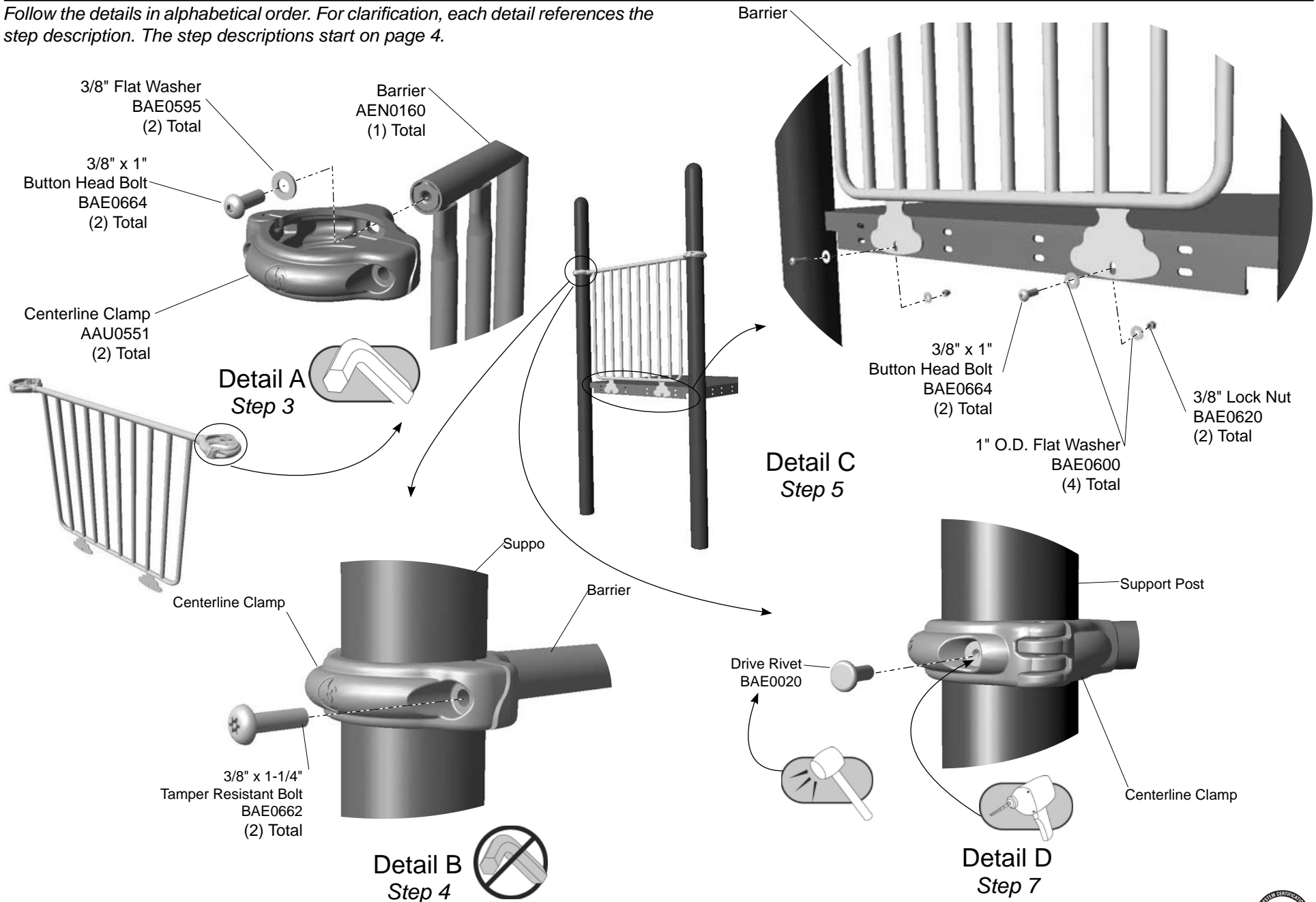


Elevation View



# 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.

**Attach the clamps to the barrier.**

**Step 3:** See **Detail A**. Attach as 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.

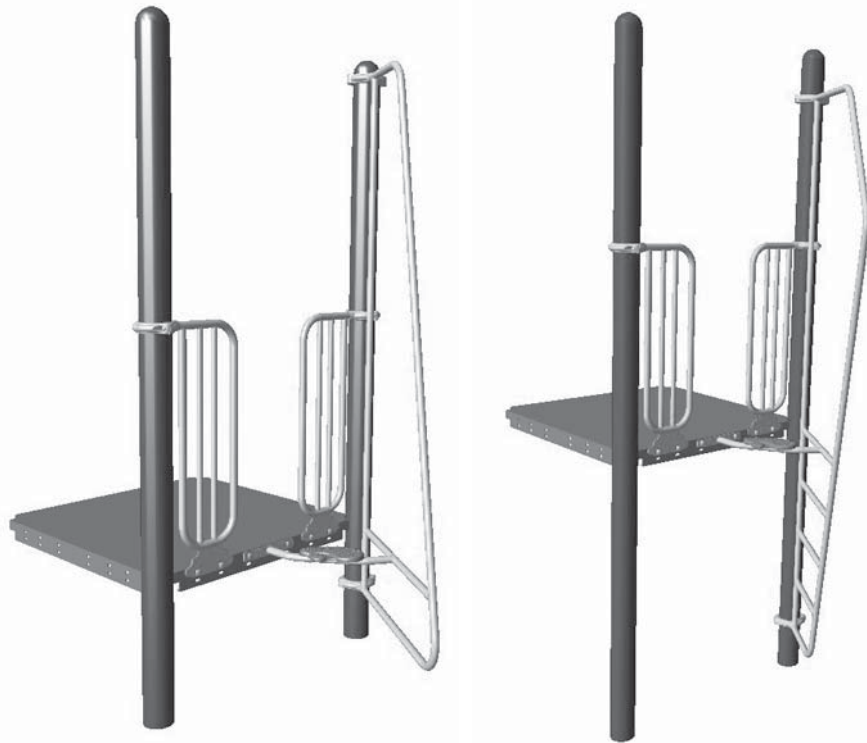
## PM4090 - CENTERLINE PIPE WALL BARRIER

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)

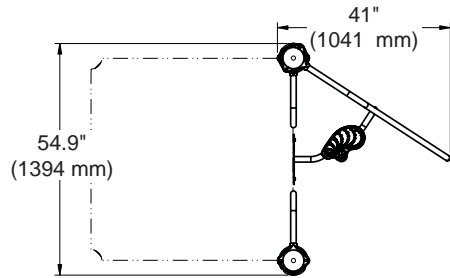
Use Zone:..... Refer to Master Drawing

User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

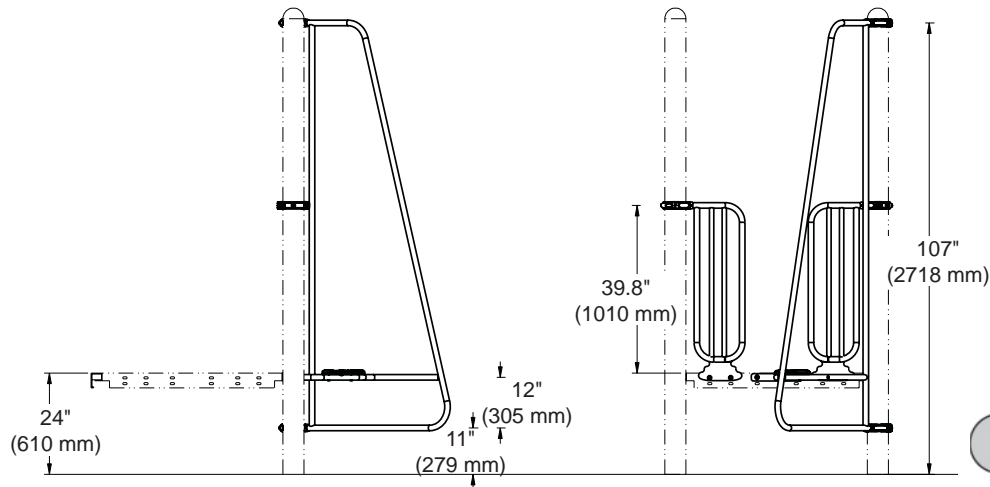
## ICON KEY

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

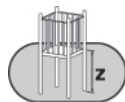
# Installation Instructions



Top View

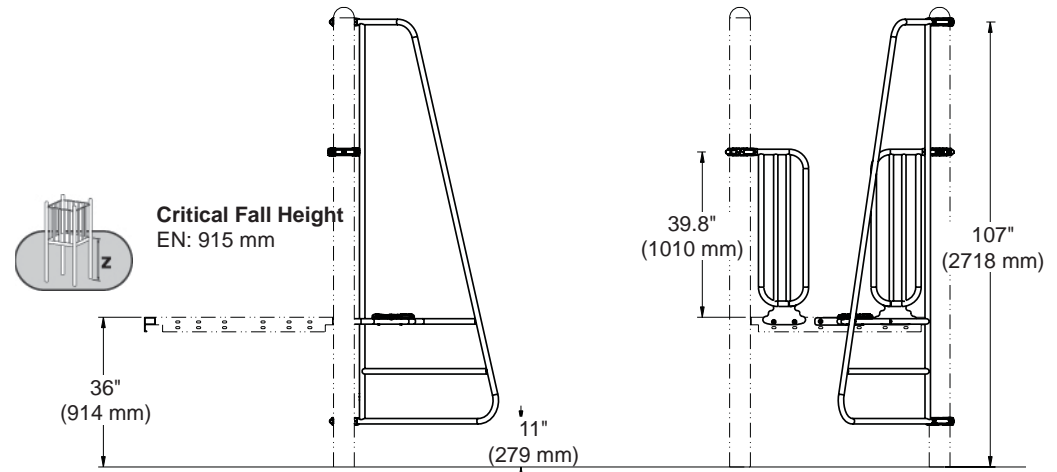


Elevation Views  
24" (610 mm) Deck Height

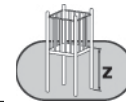


**Critical Fall Height**  
EN: 610 mm

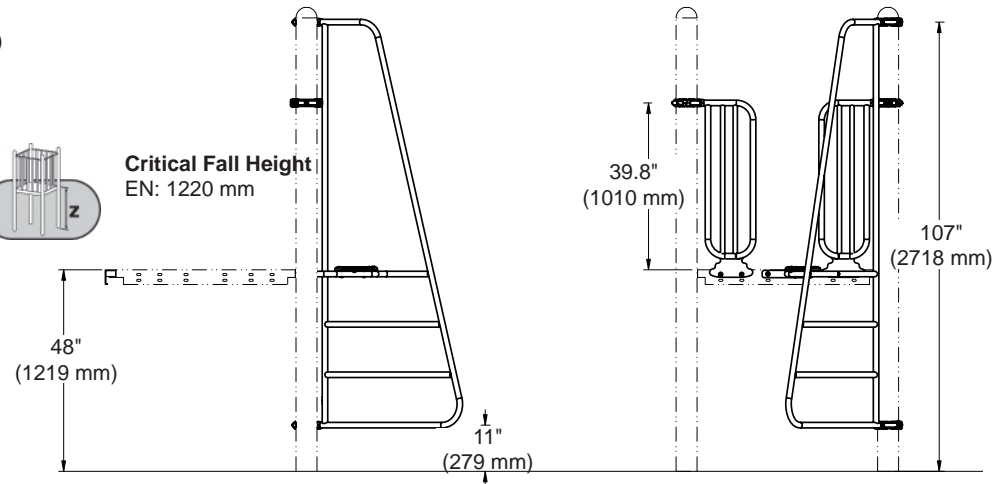
Small Angled Climbers



Elevation Views 36" (914 mm) Deck Height

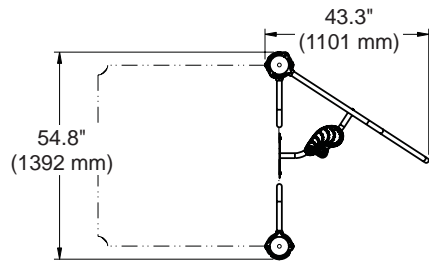


**Critical Fall Height**  
EN: 1220 mm

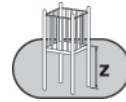


Elevation Views 48" (1219 mm) Deck Height

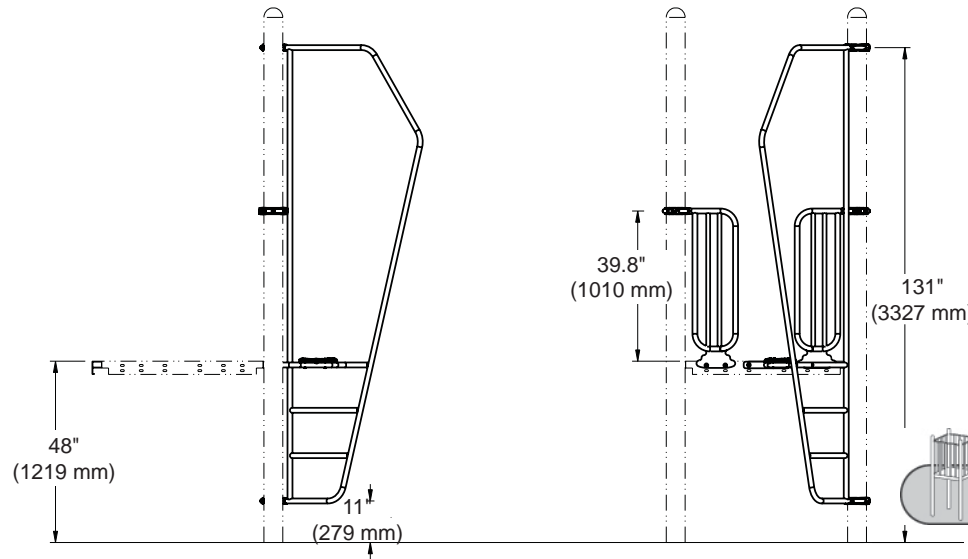
# Installation Instructions



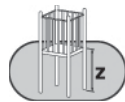
Top View



**Critical Fall Height**  
EN: 1524 mm

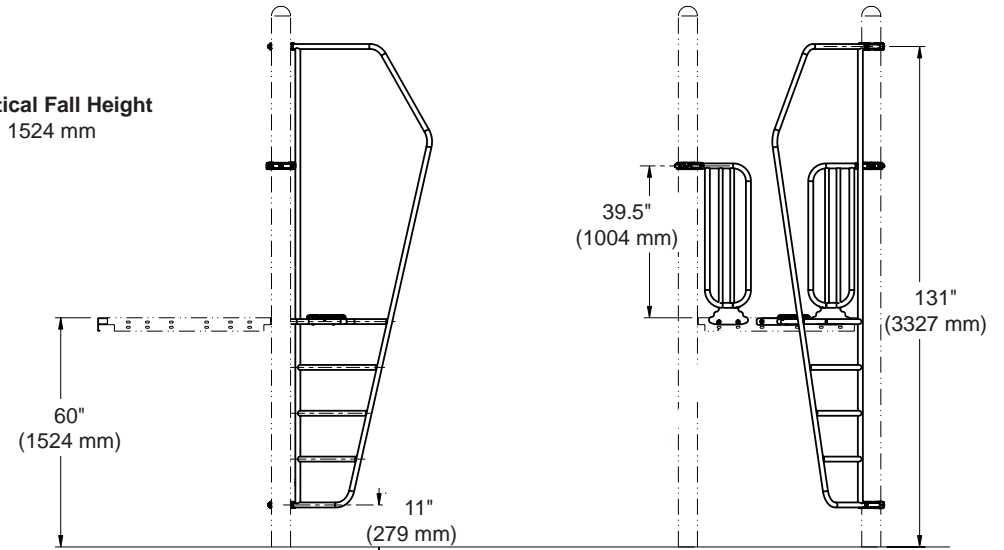


**Elevation Views**  
48" (1219 mm) Deck Height

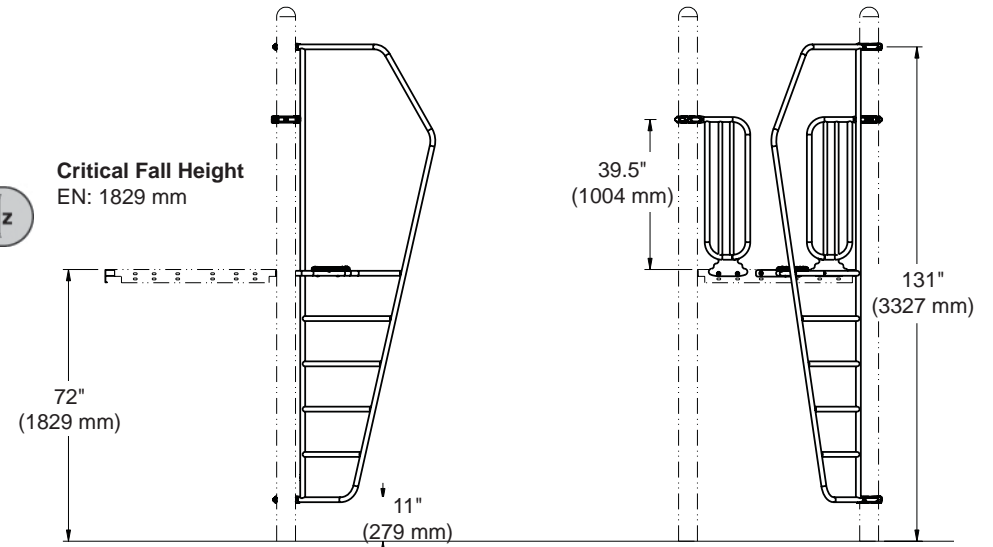


**Critical Fall Height**  
EN: 1219 mm

Large Angled Climbers



**Elevation Views 60" (1524 mm) Deck Height**



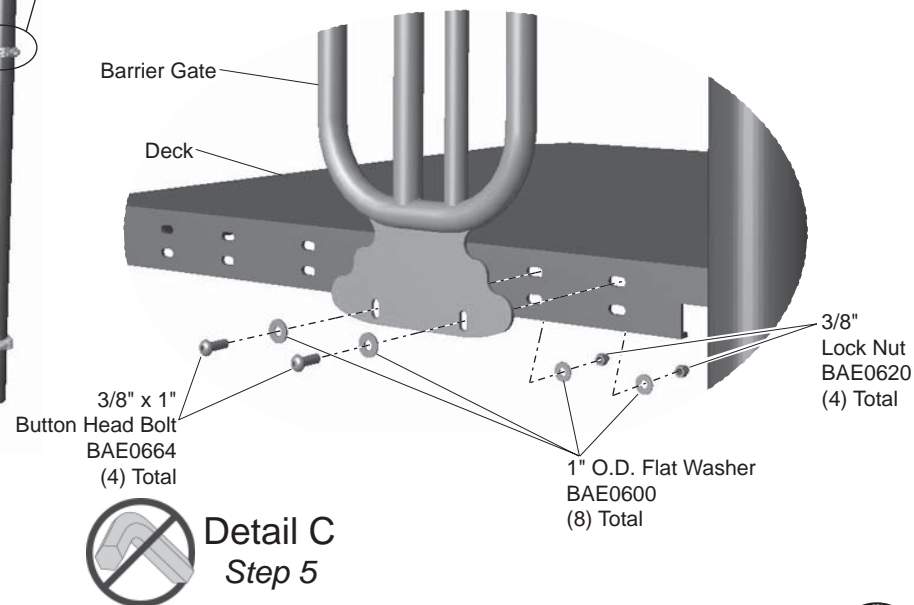
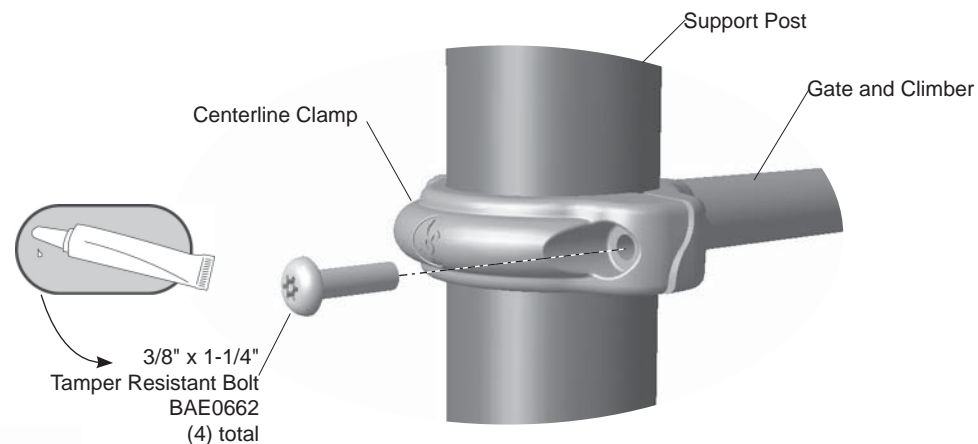
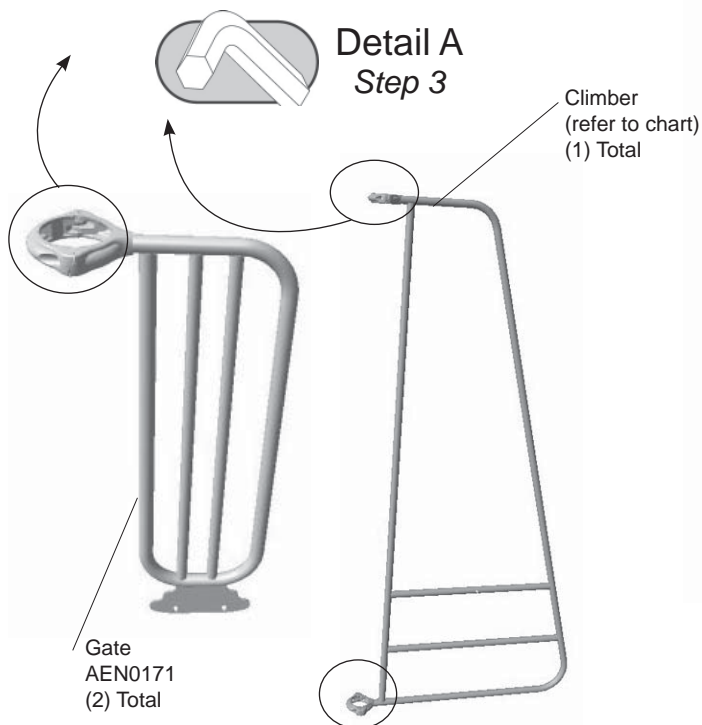
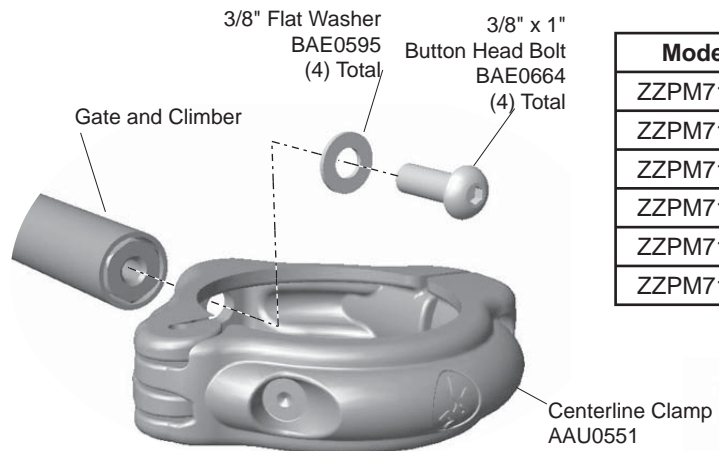
**Elevation Views 72" (1829 mm) Deck Height**



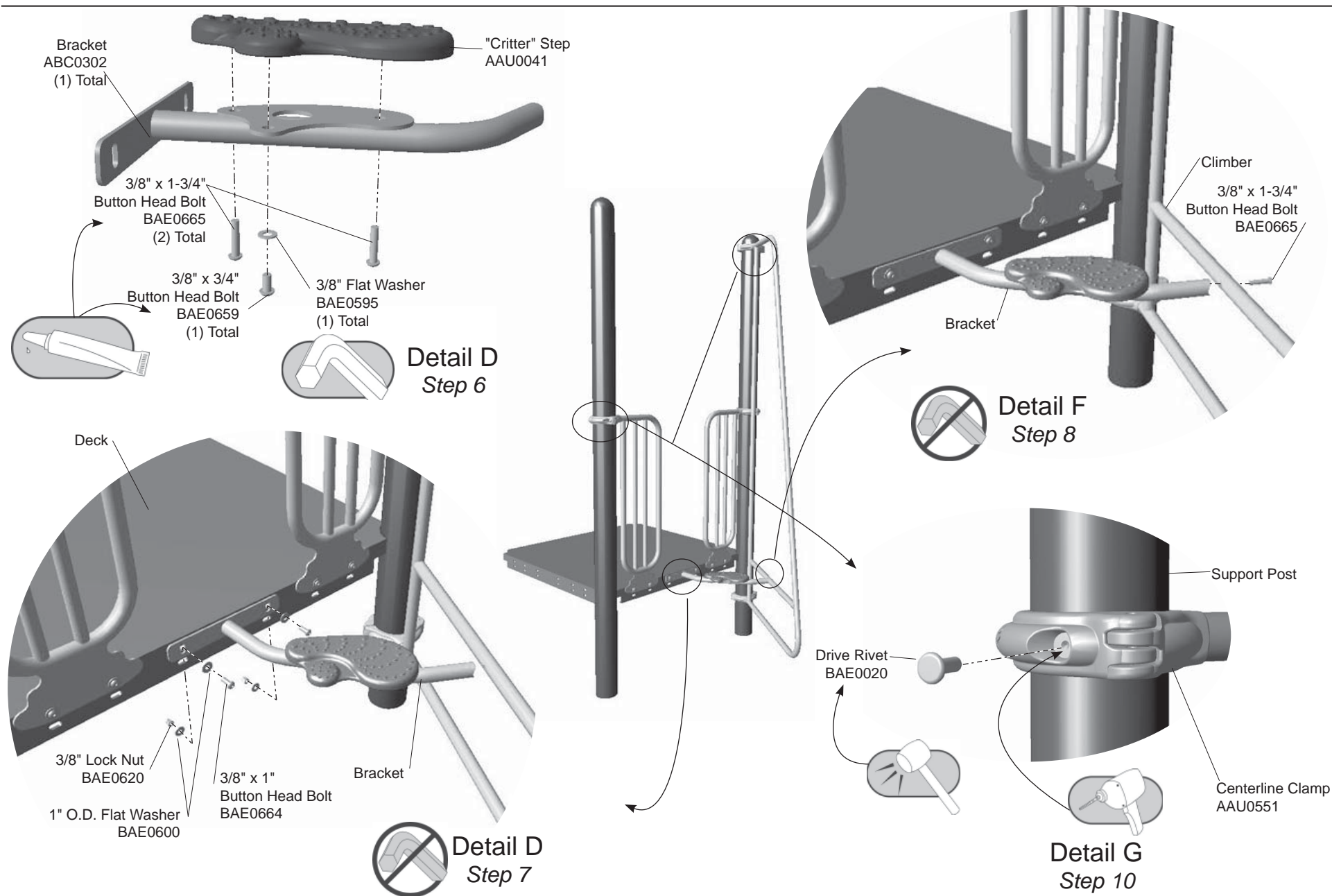
# Installation Instructions

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

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**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.

## 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

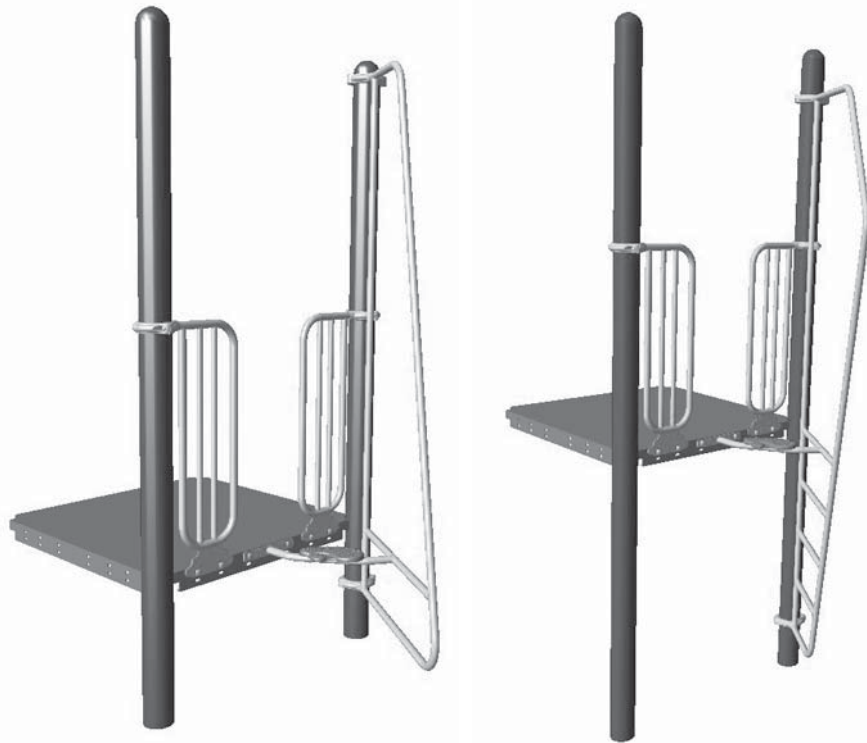
## PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK

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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**800-233-8404 or**  
**570-522-9800** OUTSIDE U.S.  
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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

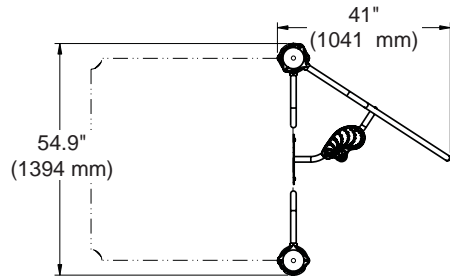
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

## ICON KEY

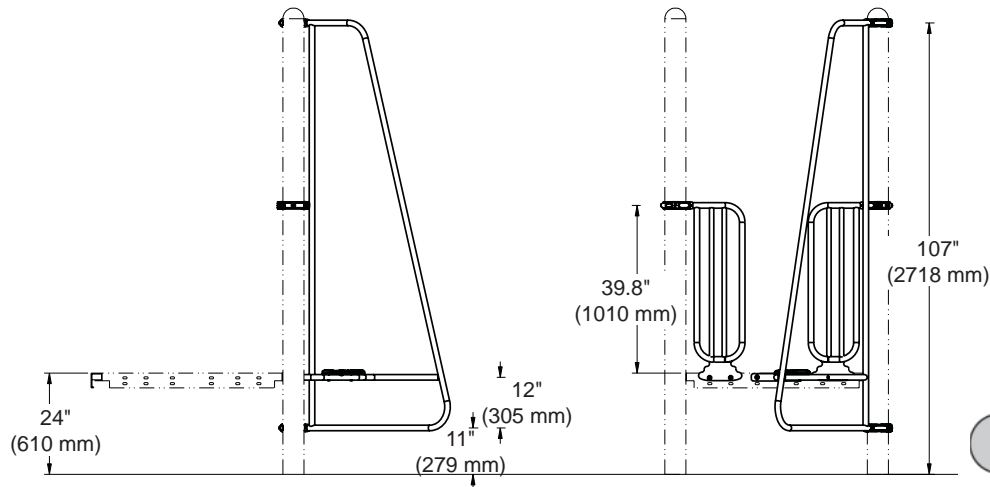
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



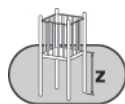
# Installation Instructions



Top View

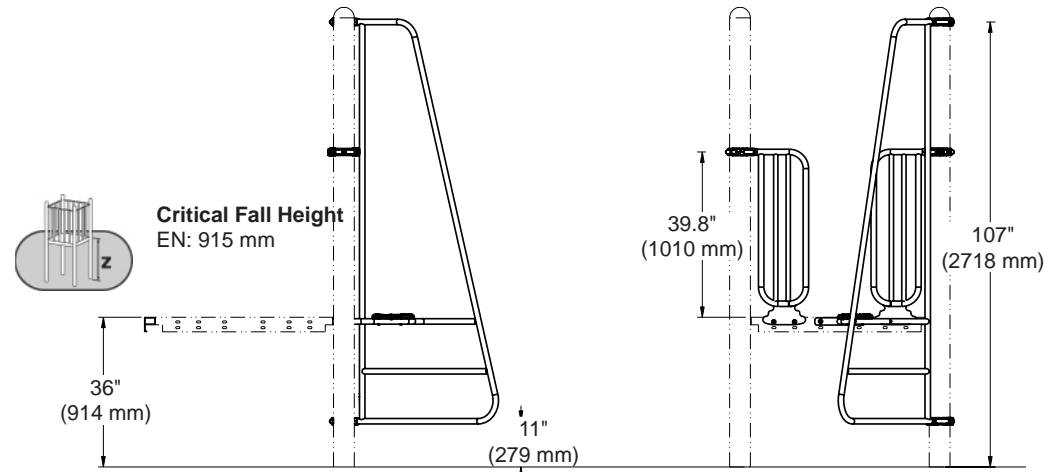


Elevation Views  
24" (610 mm) Deck Height

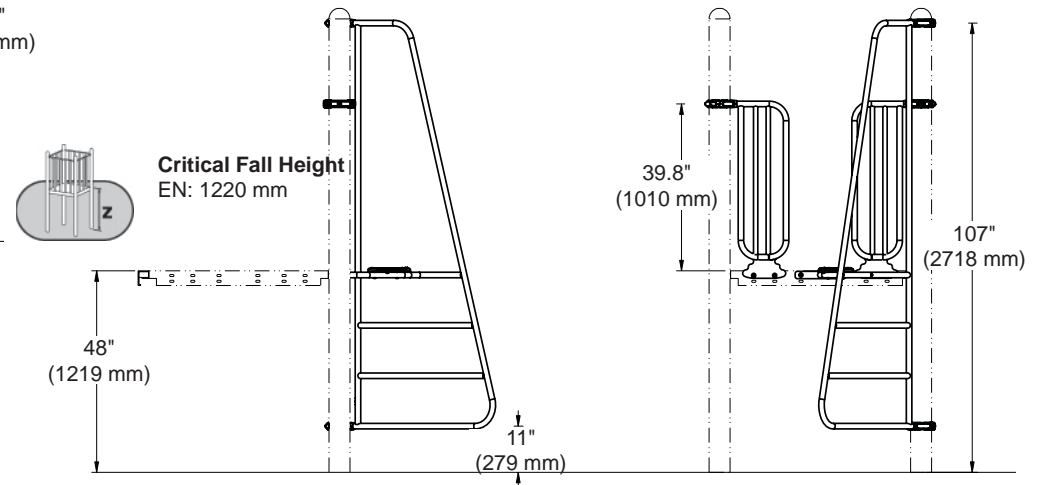


Critical Fall Height  
EN: 610 mm

Small Angled Climbers

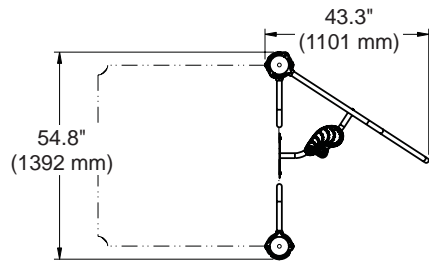


Elevation Views 36" (914 mm) Deck Height

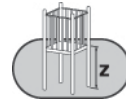


Elevation Views 48" (1219 mm) Deck Height

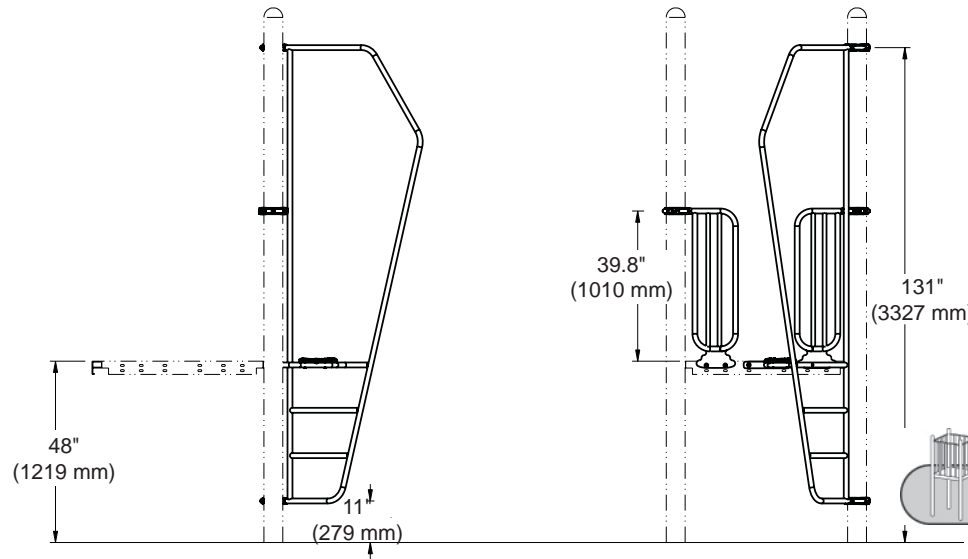
# Installation Instructions



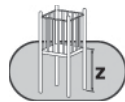
Top View



**Critical Fall Height**  
EN: 1524 mm

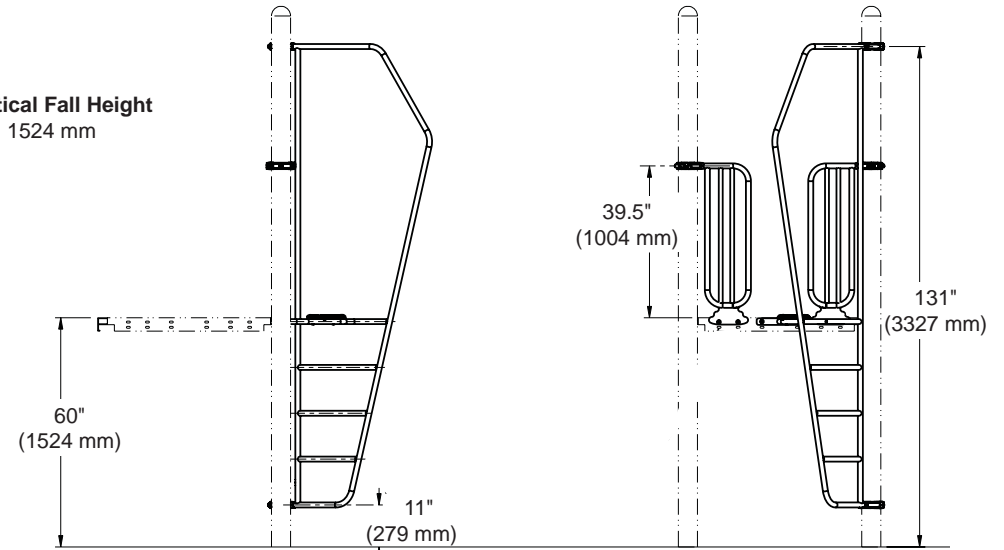


**Elevation Views**  
48" (1219 mm) Deck Height

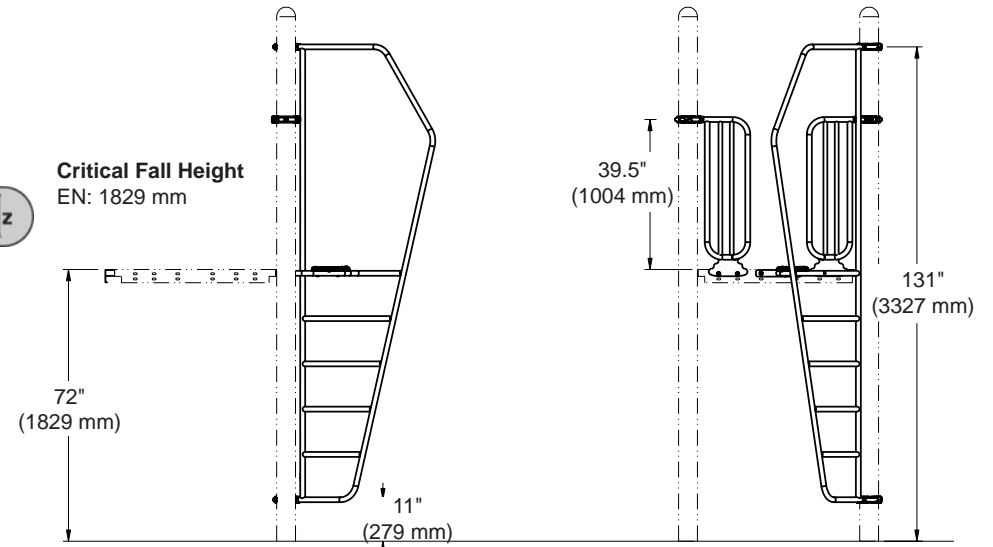


**Critical Fall Height**  
EN: 1219 mm

Large Angled Climbers



**Elevation Views 60" (1524 mm) Deck Height**



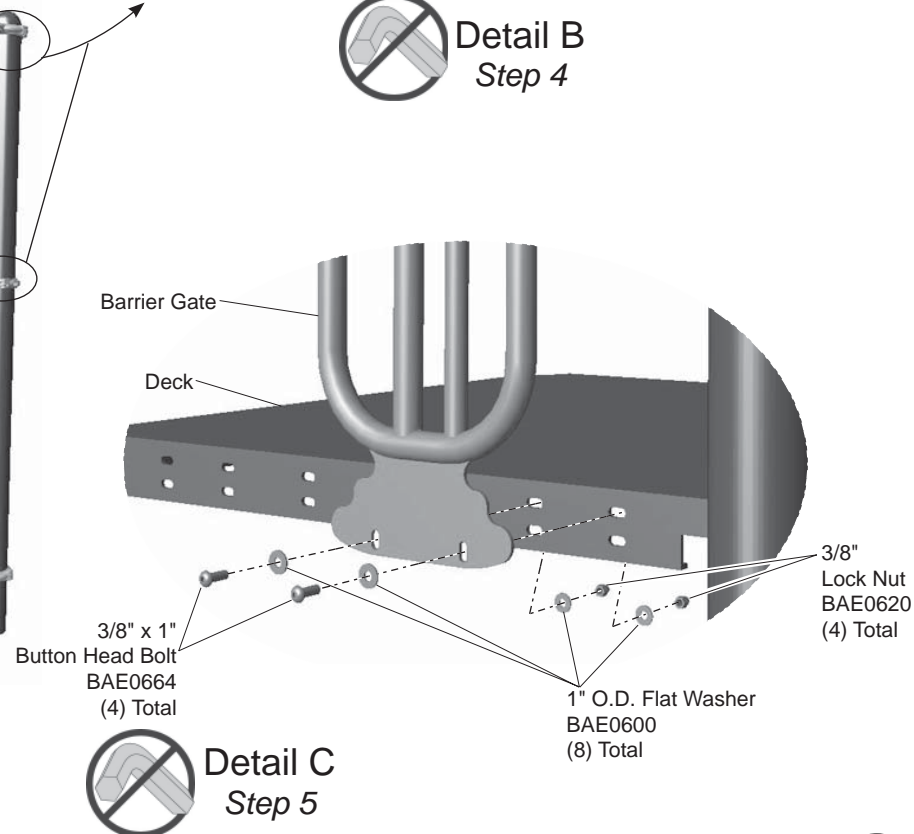
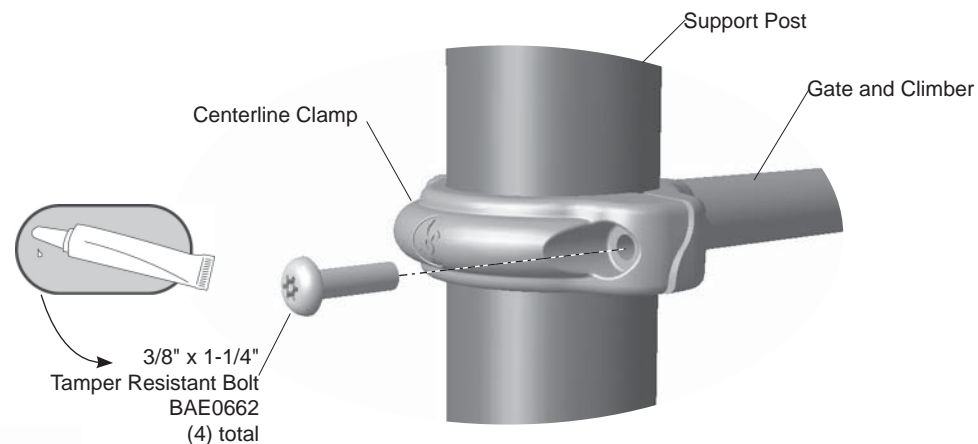
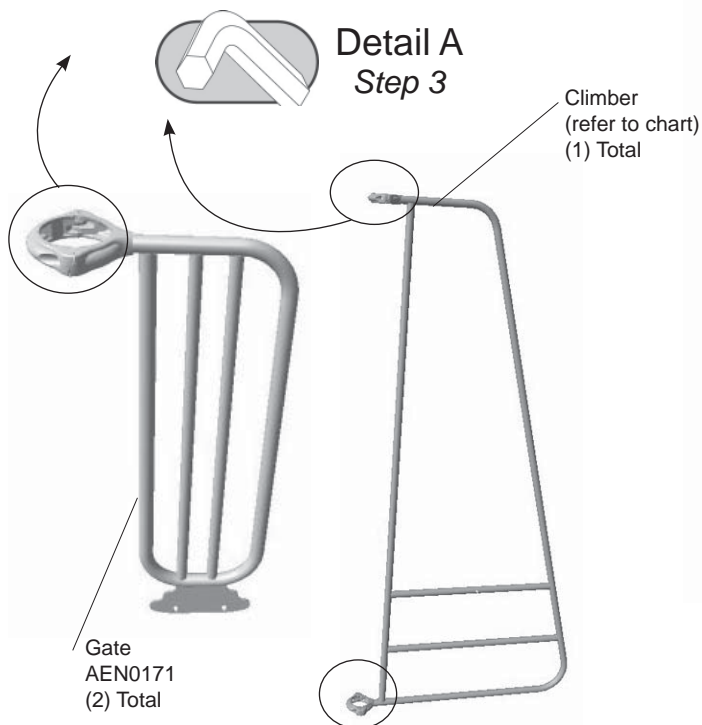
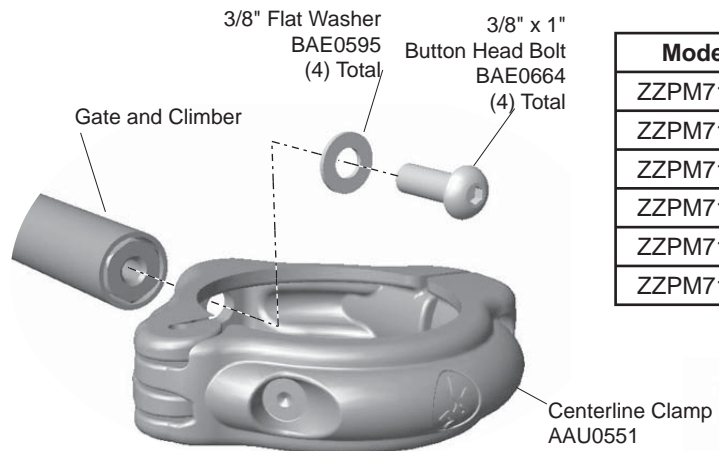
**Elevation Views 72" (1829 mm) Deck Height**



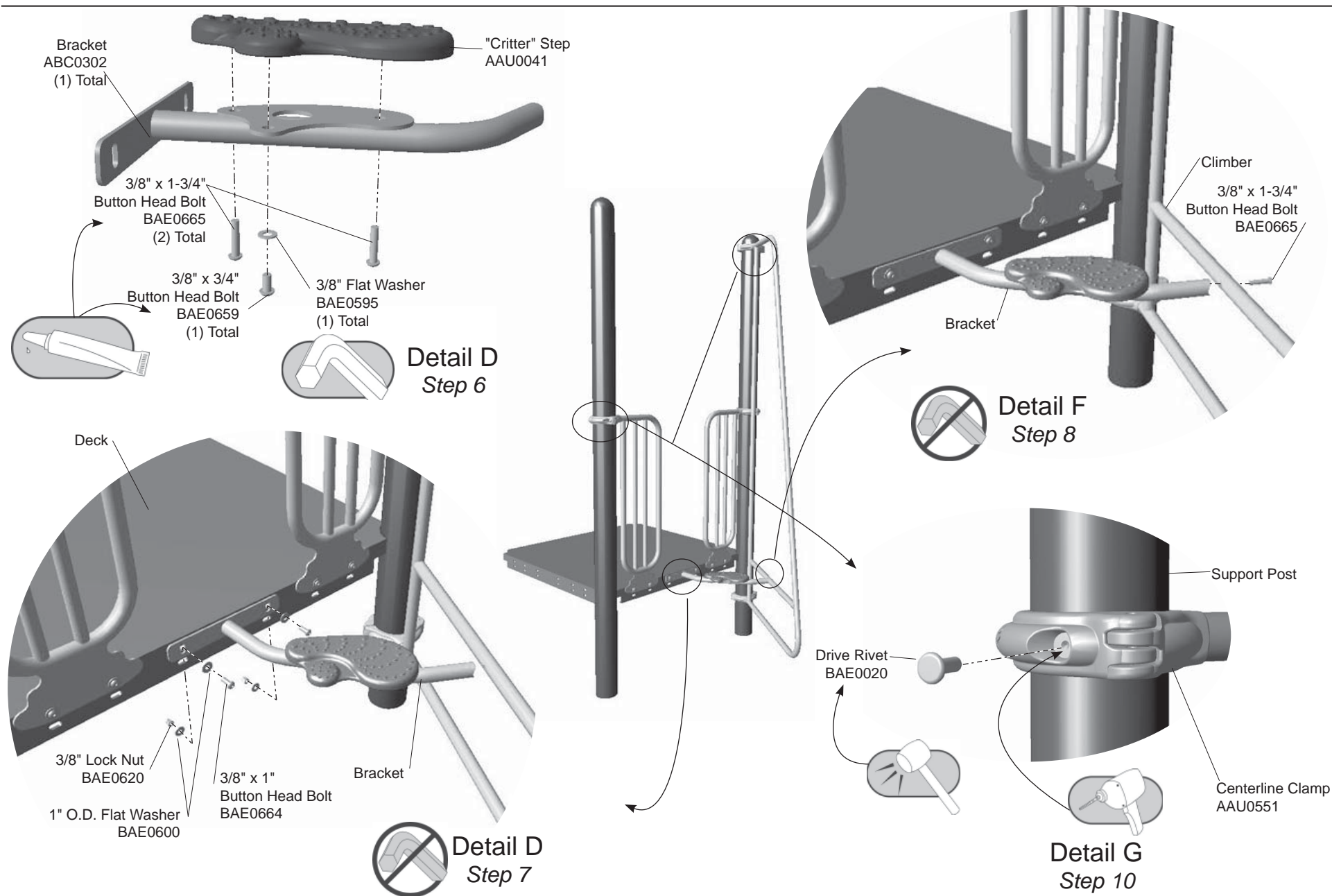
# Installation Instructions

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

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**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.

## 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 structure)

Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Weight	94.7 Lbs. 43 Kilos	111.5 Lbs. 50.7 Kilos	118.1 Lbs. 53.7 Kilos	129.3 Lbs. 59.6 Kilos

## Installation Instructions

Playmakers® Models PM7400 - PM7430

Deep Rung Arch Climber

36 in. (914 mm) to 72 in. (1829 mm) Decks

### Installation Preparation

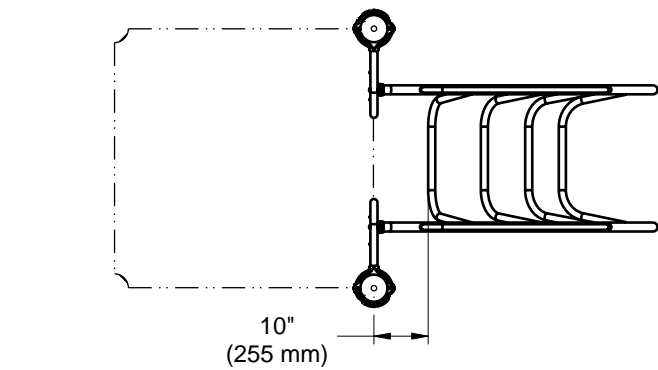
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 2 man-hours  
 Weight: ..... See table at lower left  
 Concrete Required: ..... 0.06 cubic yard (0,5 cubic meters)  
 Use Zone: ..... Refer to Use Zone on Master Drawing  
 User Group Age (years): ..... 36"-48": ASTM/CSA: 2-12, EN: 2-14  
 ..... 60"-72": ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

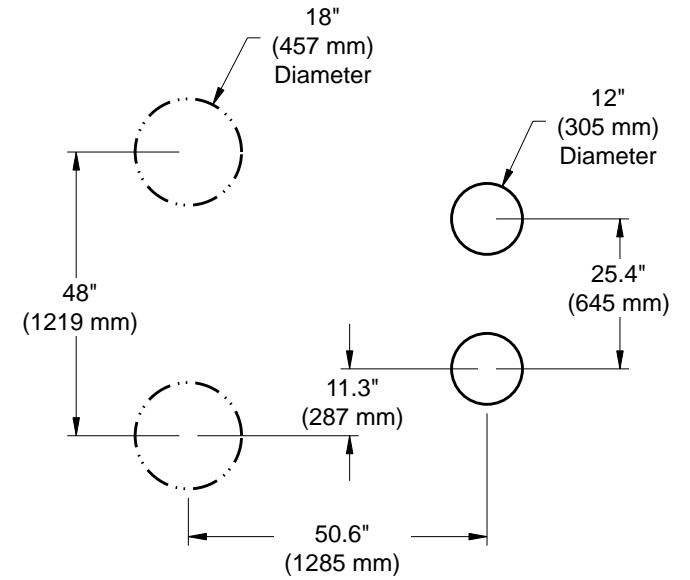
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



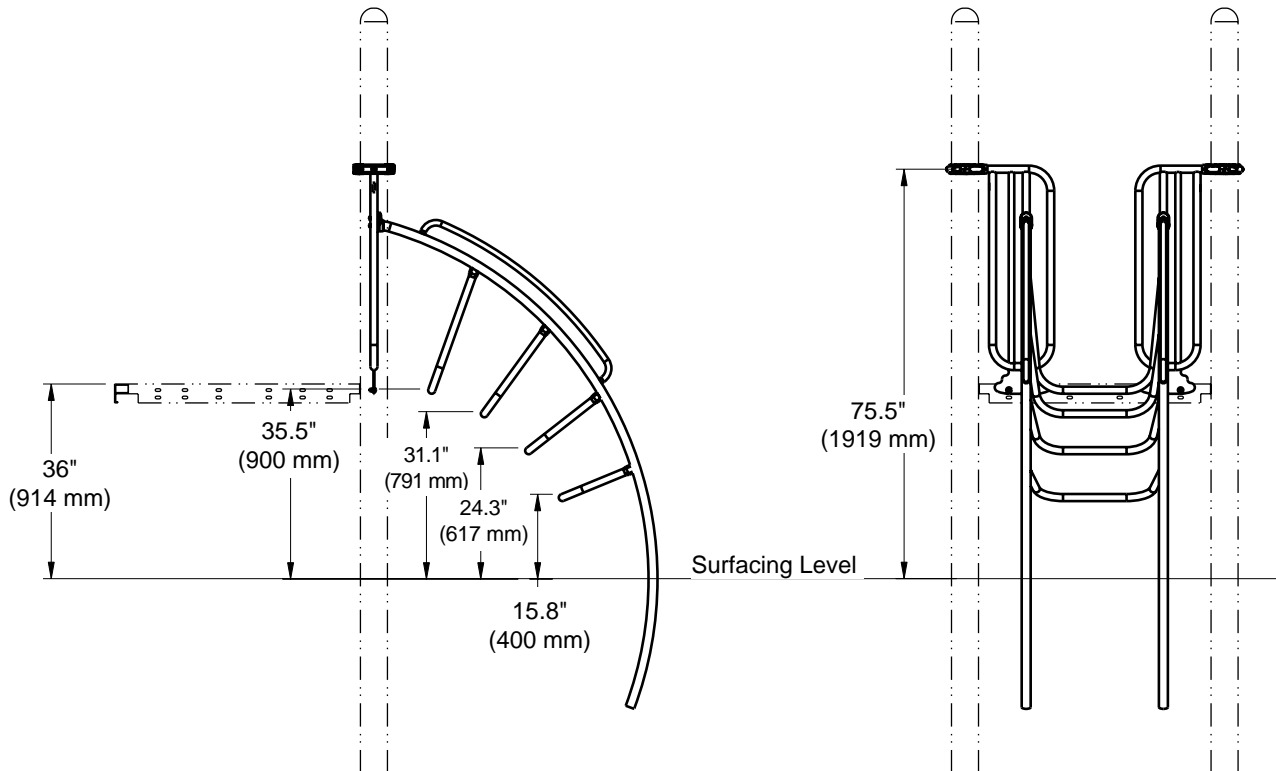
# Installation Instructions



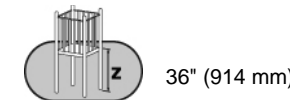
Top View



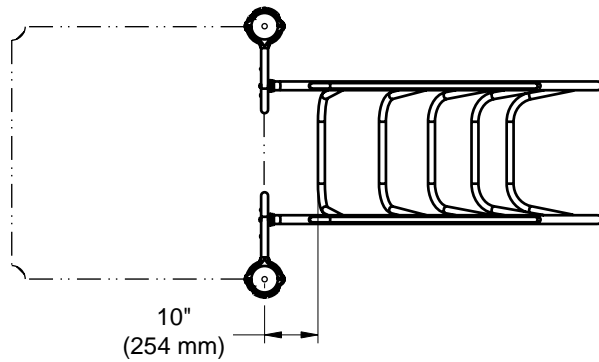
Footings Diagram



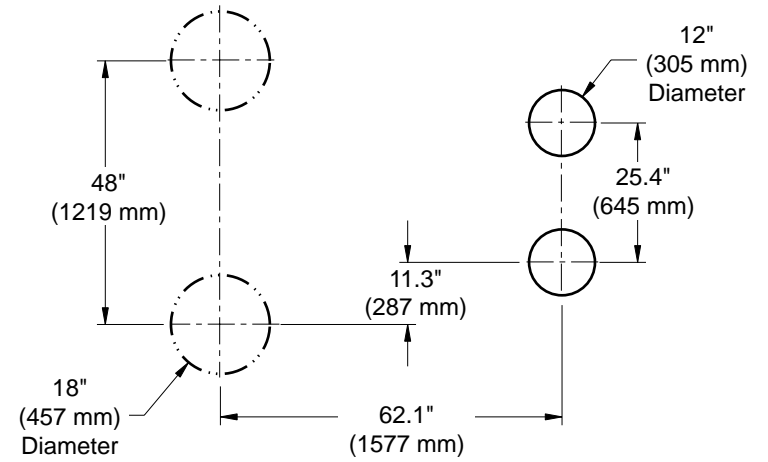
Elevation Views  
36 in. (914 mm) Deck



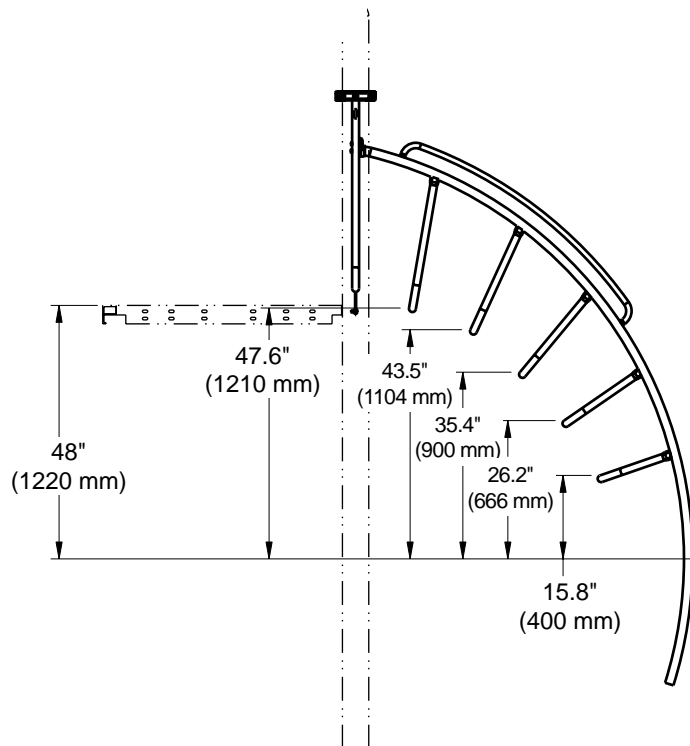
# Installation Instructions



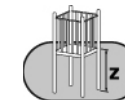
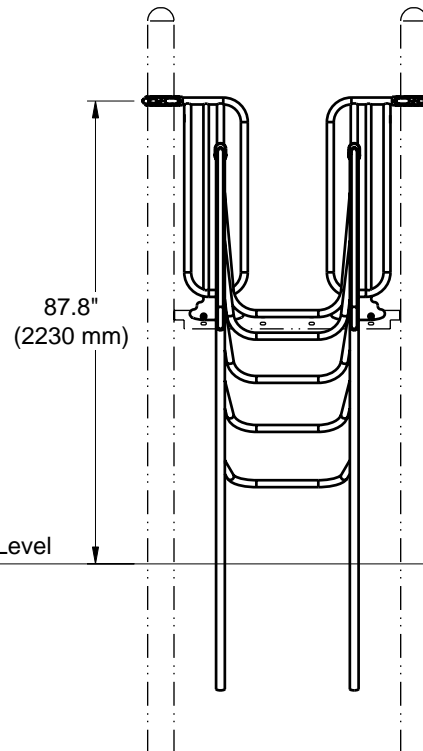
Top View



Footing Diagram



Surfacing Level

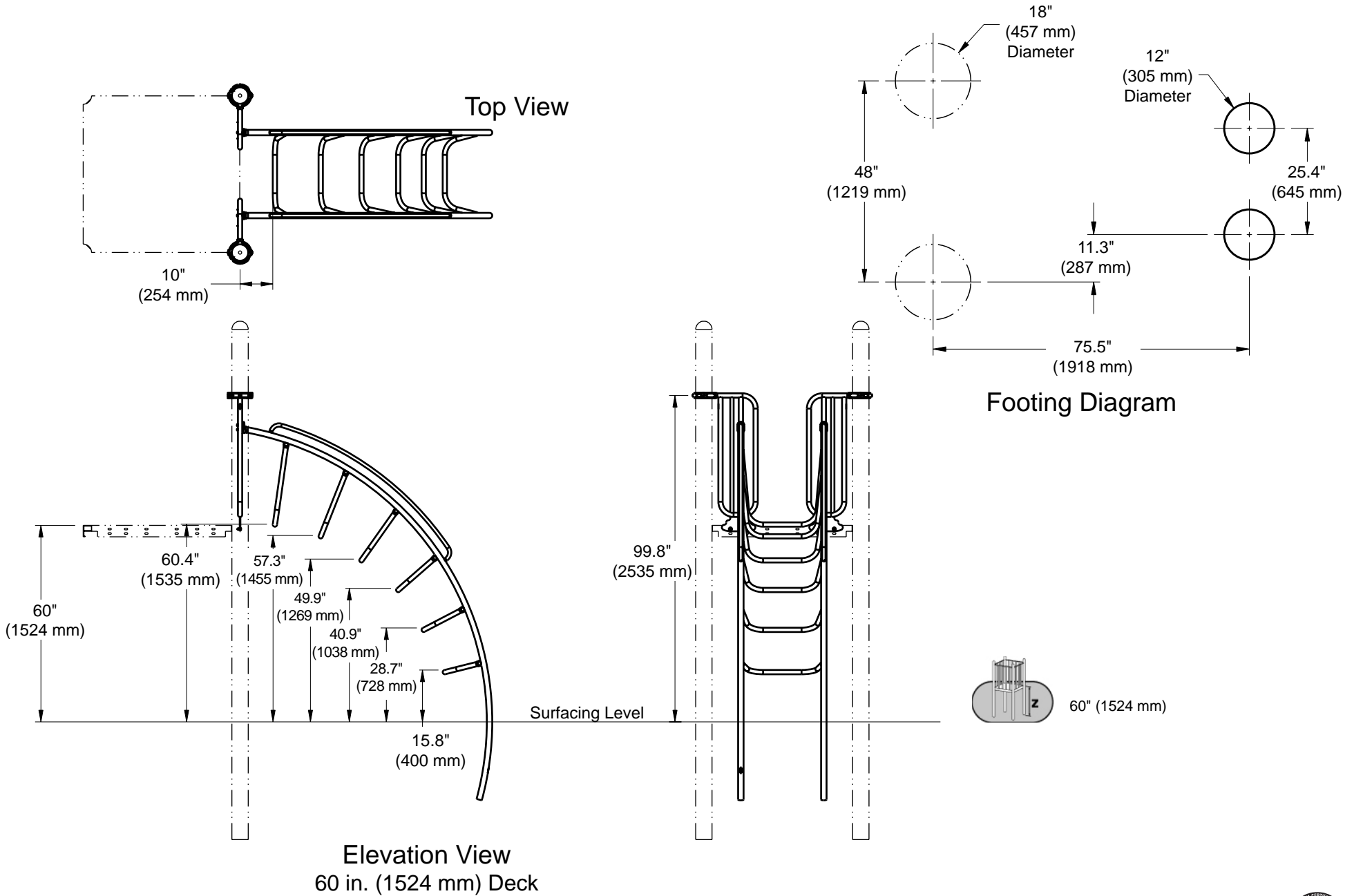


48" (1220 mm)

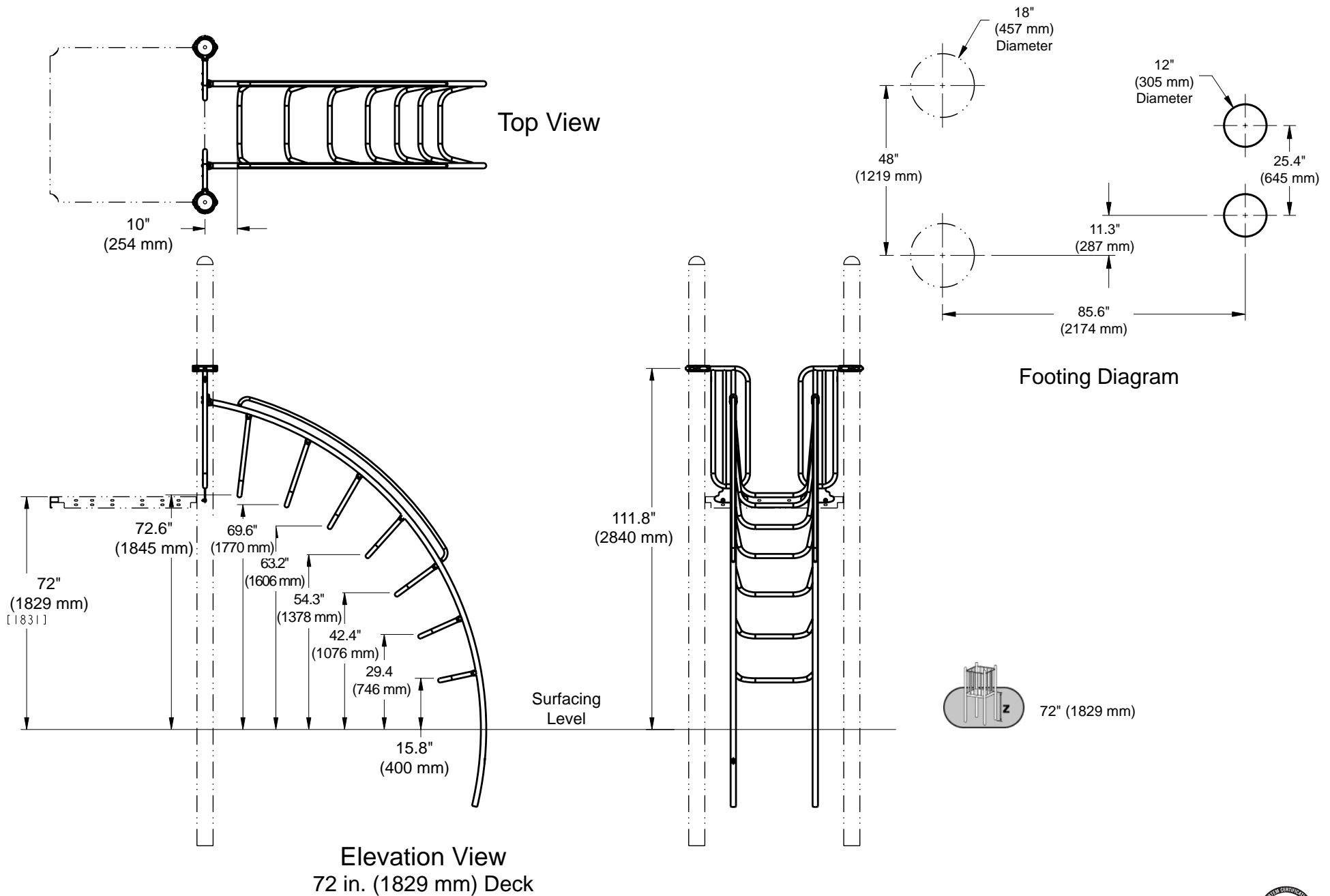
Elevation Views  
48 in. (1219 mm) Deck



# Installation Instructions

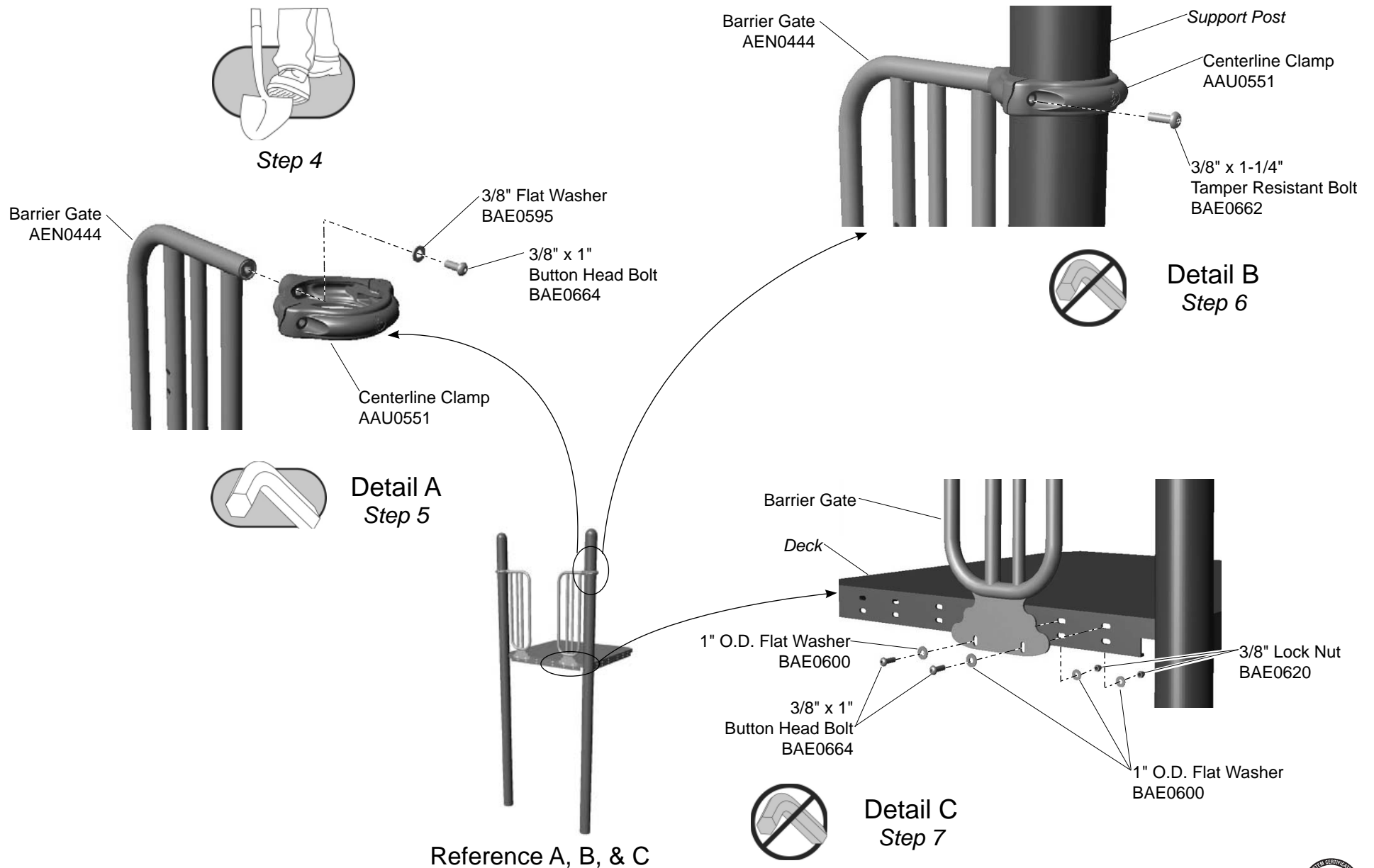


# Installation Instructions

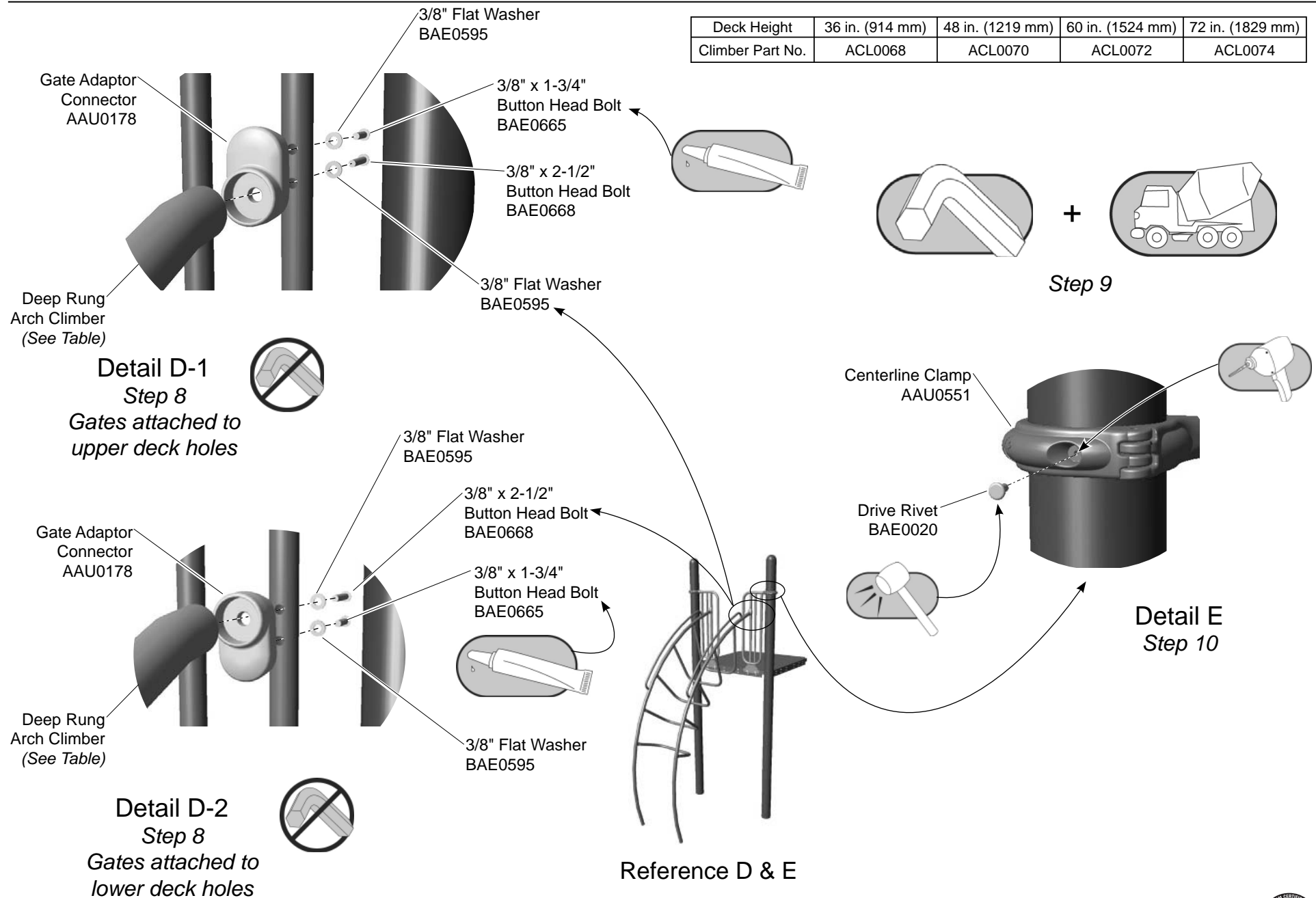


# Installation Instructions

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



# Installation Instructions



# Installation Instructions

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**\_\_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 placement and height of the deep rung arch 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 clamps to the barrier gates.**

**\_\_Step 5:** Attach the clamps to the barrier gates. See **Detail A**. Select both barrier gates and (2) two clamps, and the appropriate hardware. Position the top of each barrier against the neck of the clamp and make connection as shown. Fully tighten connections.

**Attach the clamps to the support posts.**

**\_\_Step 6:** Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift each barrier gate into position against the deck and attach each clamp to a support post as shown.

**Attach the gates to the deck.**

**\_\_Step 7:** Attach the gates to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. Attach the gates to either the *top holes (preferred)* or the bottom holes, depending on adjacent clamp positions, in the deck as shown.

**Attach the climber to the gates.**

**\_\_Step 8:** Attach the climber to the gates. See **Details D-1 or D-2**. Select the climber, (2) two connectors, and appropriate hardware. There are (4) four total connections, (2) two *per connector*. Based upon the gate attachment to the deck, position the adaptor and attach as shown. Apply loctite to the 1-3/4" bolt threads before threading into the adaptor.

**Final details.**

**\_\_Step 9:** Plumb and level 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 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.

## ZZPM7400 - 36 in. (914 mm) DEEP RUNG ARCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0178	CONNECTOR - 1.66" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0068	CLIMBER - 36" DEEP RUNG ARCH w/LABEL AT 24"	1
AEN0444	BARRIER - 13.00" x 42.19" GATE w/UPPER HOLES	2
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	8
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2

## ZZPM7410 - 48 in. (1219 mm) DEEP RUNG ARCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0178	CONNECTOR - 1.66" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0070	CLIMBER - 48" DEEP RUNG ARCH w/LABEL AT 24"	1
AEN0444	BARRIER - 13.00" x 42.19" GATE w/UPPER HOLES	2
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	8
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2

## ZZPM7420 - 60 in. (1524 mm) DEEP RUNG ARCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0178	CONNECTOR - 1.66" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0072	CLIMBER - 60" DEEP RUNG ARCH w/LABEL AT 24"	1
AEN0444	BARRIER - 13.00" x 42.19" GATE w/UPPER HOLES	2
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	8
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2

## ZZPM7430 - 72 in. (1829 mm) DEEP RUNG ARCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0178	CONNECTOR - 1.66" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0074	CLIMBER - 72" DEEP RUNG ARCH w/LABEL AT 24"	1
AEN0444	BARRIER - 13.00" x 42.19" GATE w/UPPER HOLES	2
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	8
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8180	36" (915 mm)	80.6 lbs. (36.6 kg)
ZZPM8190	48" (1220 mm)	85.6 lbs. (39.1 kg)
ZZPM8200	60" (1525 mm)	96.7 lbs. (44 kg)
ZZPM8210	72" (1829 mm)	95.9 lbs. (43.6 kg)

## Installation Instructions

Playmakers® Model PM8180,  
PM8190, PM8200, PM8210

36 in (914mm), 48 in (1219 mm), 60 in (1524 mm),  
and 72 in (1829 mm) Deck Tree Climber

### Installation Preparation

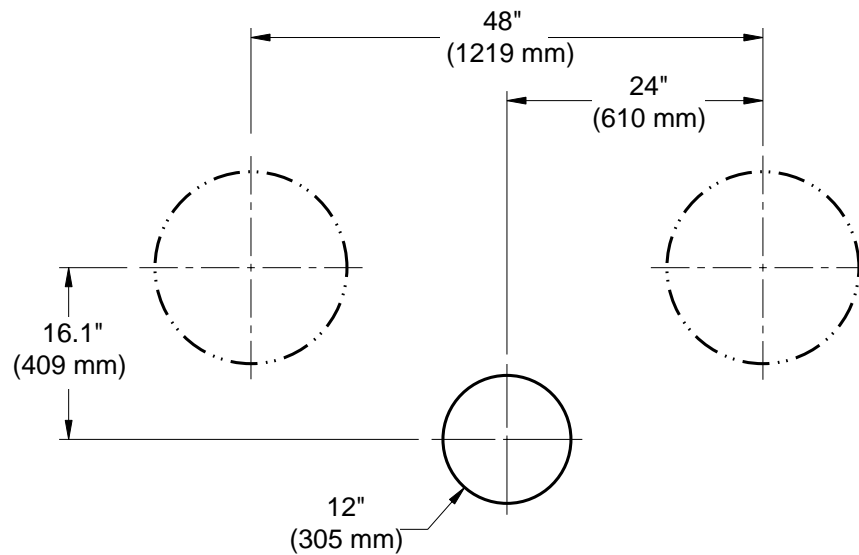
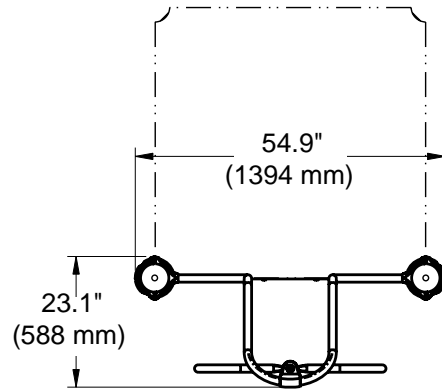
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1.5 man-hours  
 Weight: ..... (refer to table)  
 Concrete Required: ..... 0.3 cubic yard (0,02 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 6-14

### ICON KEY

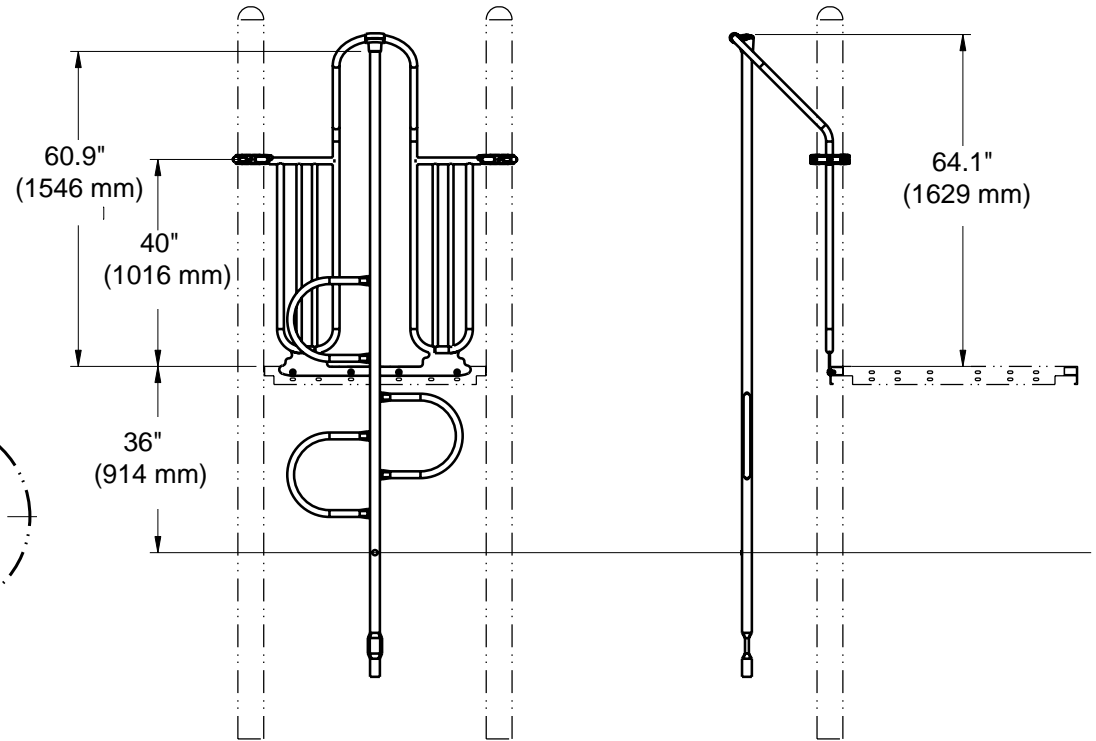
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Critical Fall Height
	Drill		Hammer

# Installation Instructions

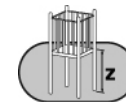
Top View  
All Models



Footings Diagram  
All Models



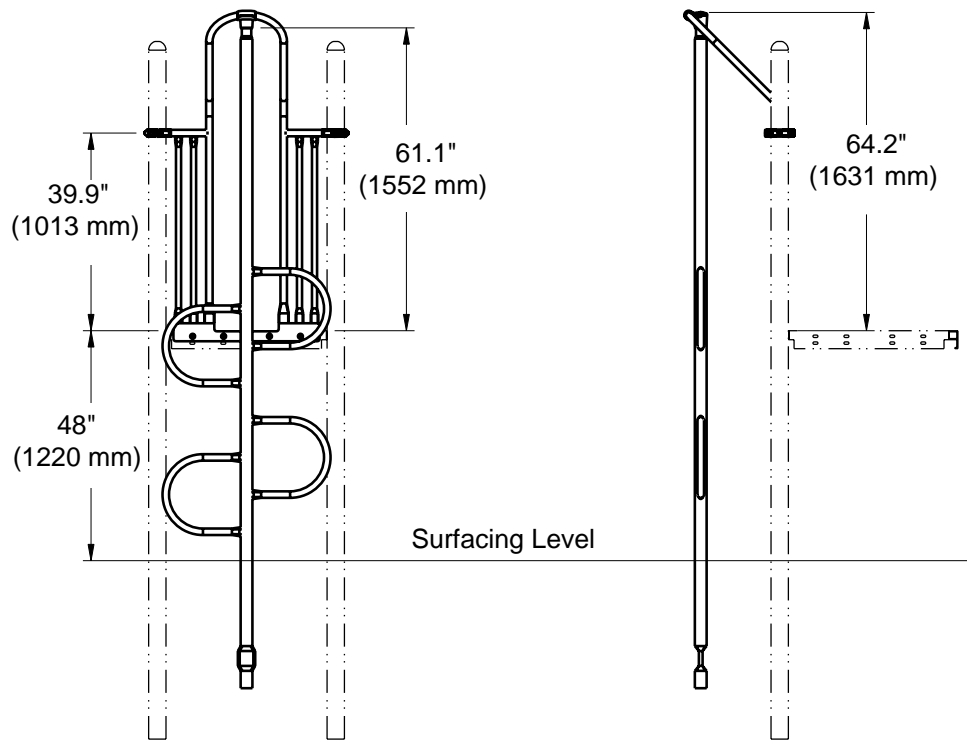
Elevation Views  
PM8180



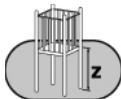
EN: 1350 mm



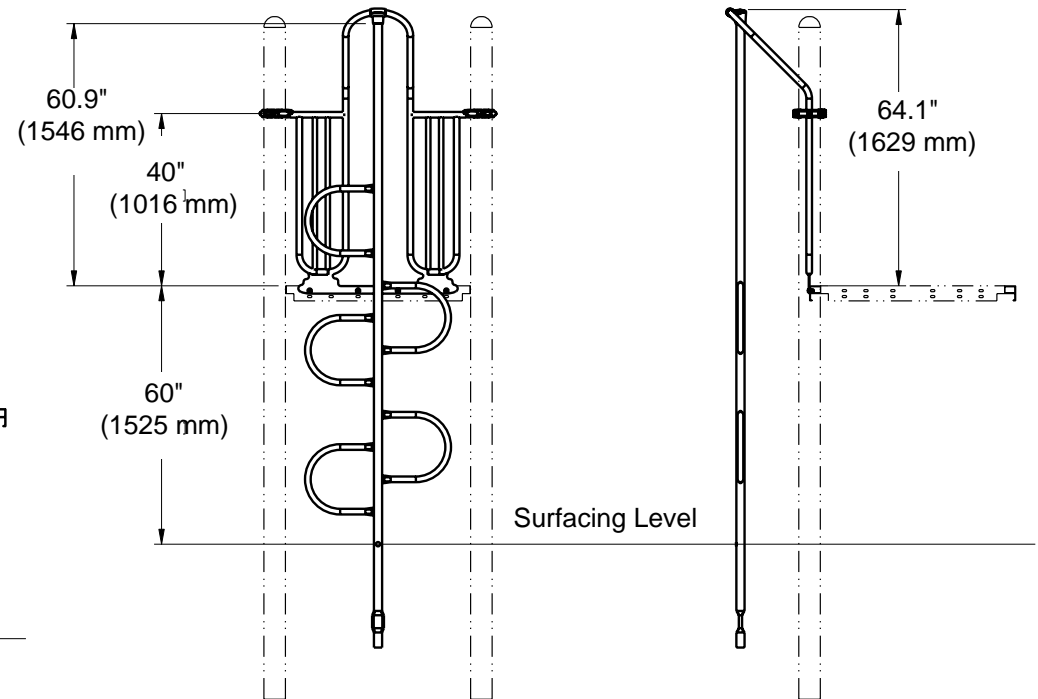
# Installation Instructions



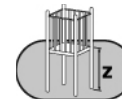
Elevation Views  
PM8190



EN: 1540 mm

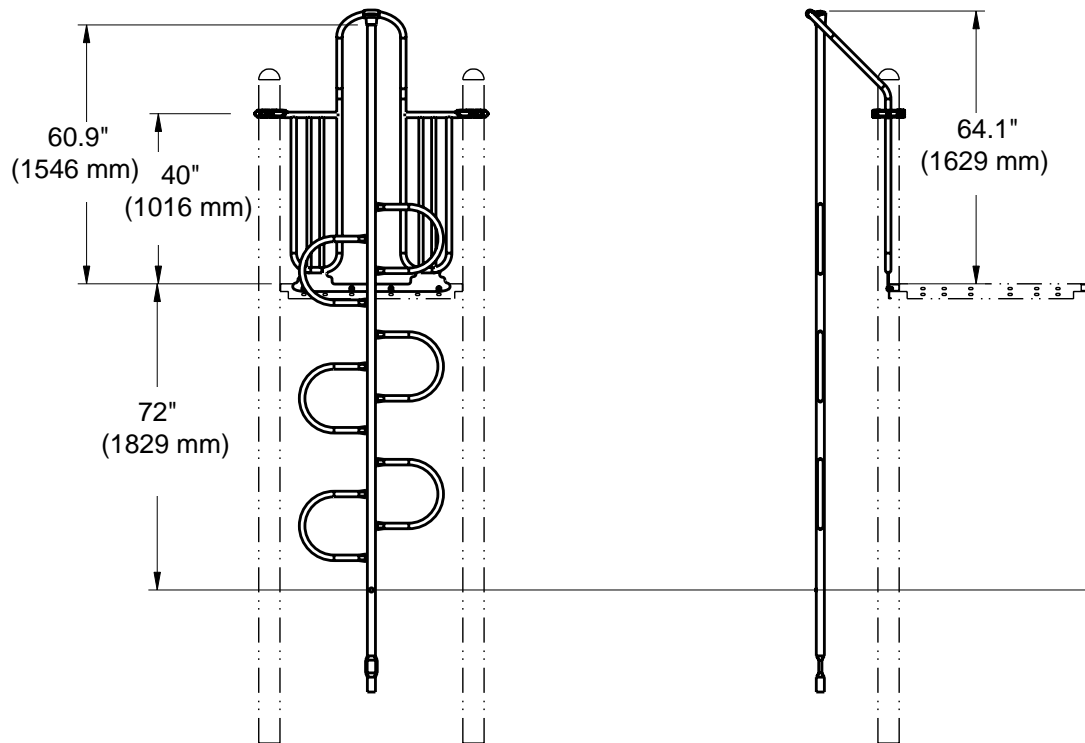


Elevation Views  
PM8200

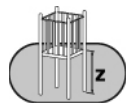


EN: 2110 mm

# Installation Instructions



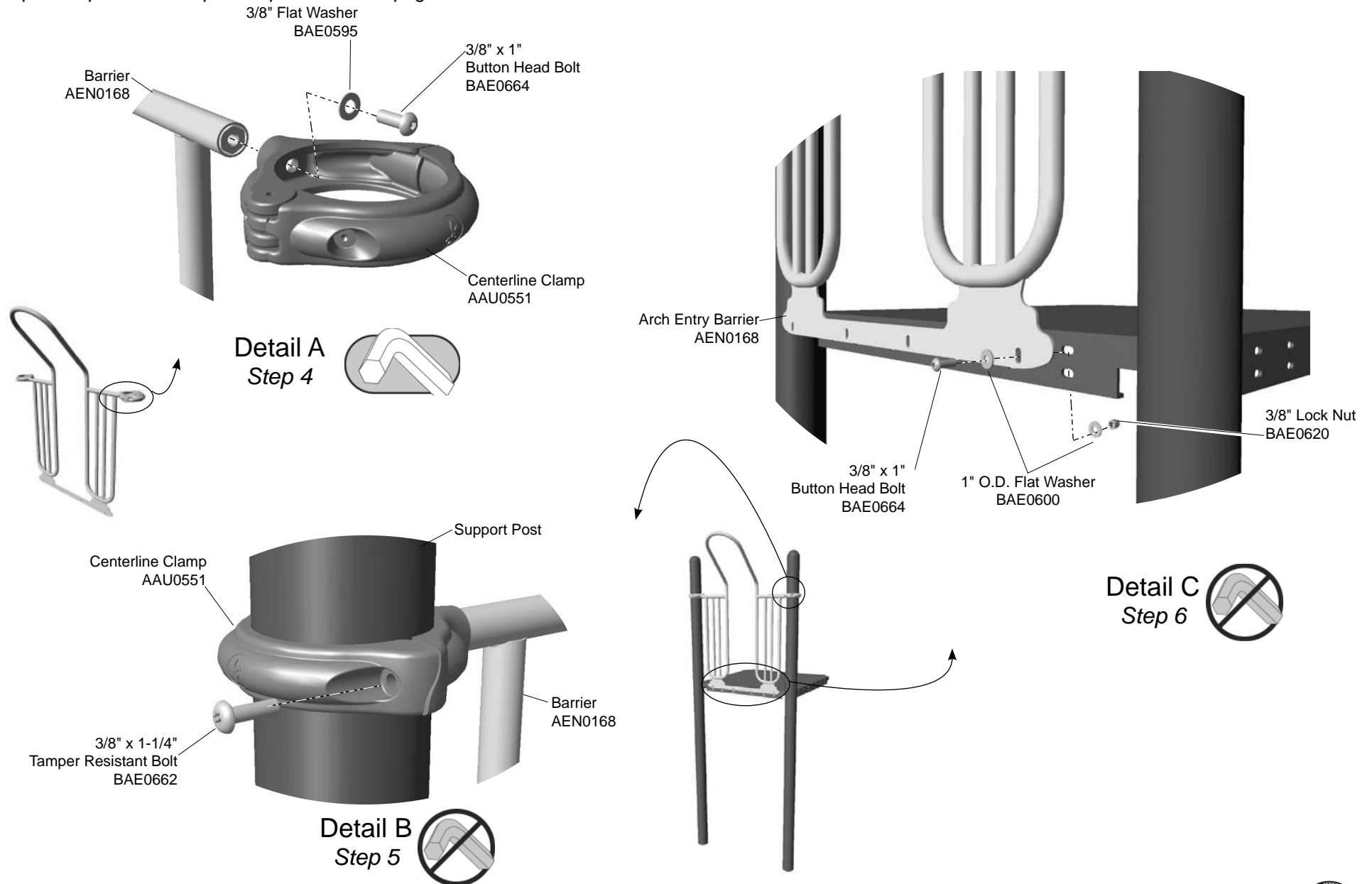
Elevation Views  
PM8210



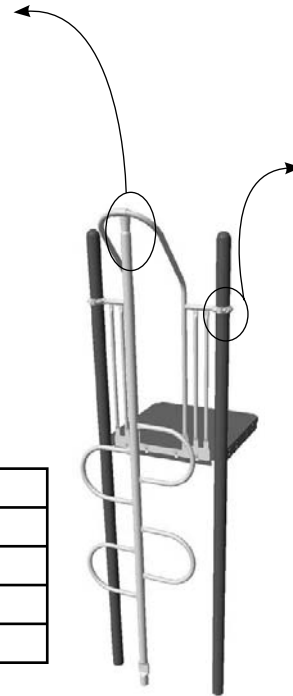
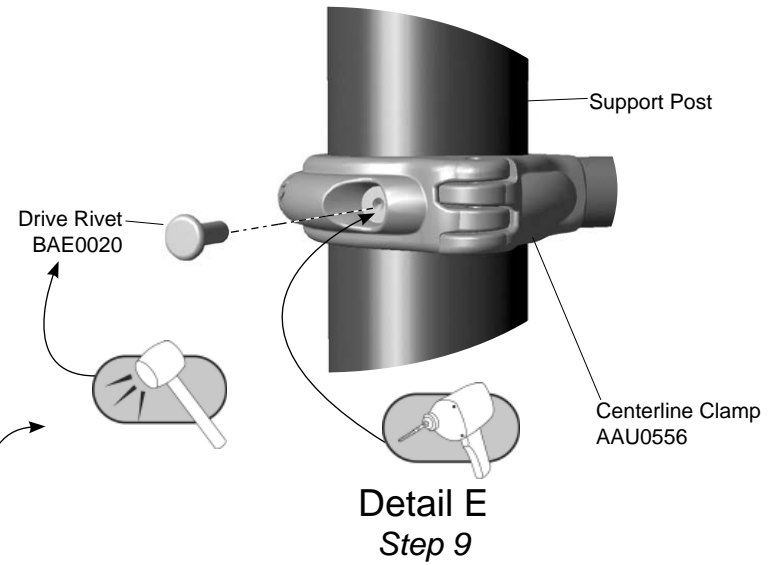
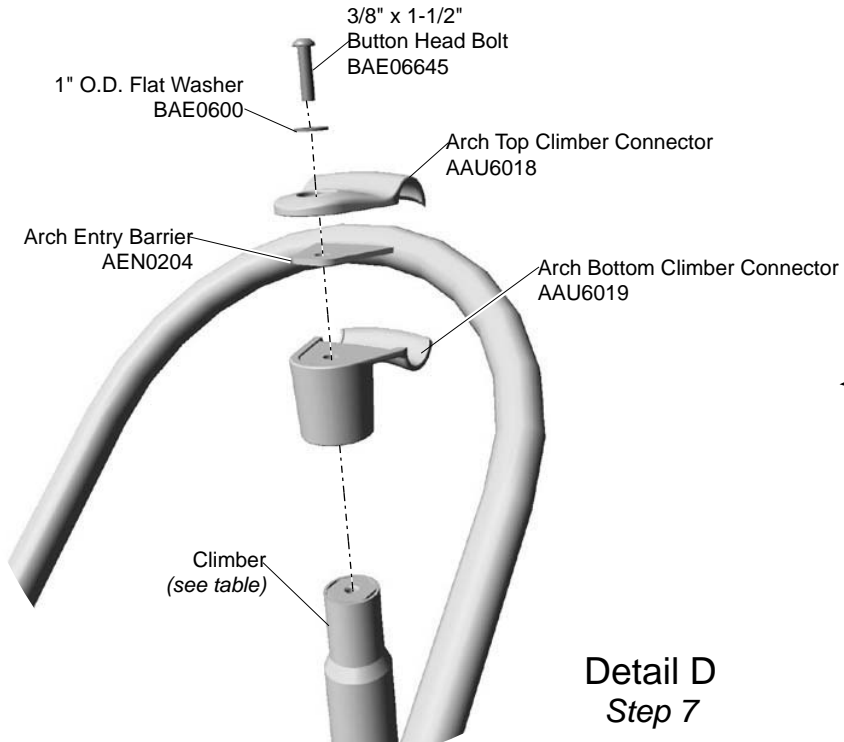
EN: 2300 mm

# 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



Model	Deck Height	Part Number
ZZPM8180	36" (915 mm)	ACL0039
ZZPM8190	48" (1220 mm)	ACL0041
ZZPM8200	60" (1525 mm)	ACL0043
ZZPM8210	72" (1829 mm)	ACL0045

# 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** in the guidelines.

**Attach the clamps to the arch entry barrier.**

**\_\_Step 4:** Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the centerline clamps, the barrier, and the appropriate hardware. There are (2) two connections. Position the threaded portion of arch entry barrier top rail against the neck of each clamp and align holes. Ensure that the hinged section of each clamp points in the same direction. Attach as shown.

**Attach the clamps to the support post.**

**\_\_Step 5:** Attach the centerline clamps to the support posts. See **Detail B**. Select the centerline clamps, the support post, and the appropriate hardware. There are (2) two connections. Lift barrier into position against the deck. Open each clamp and close around the support post. Leave connections loose for alignment adjustment. Attach as shown.

**Attach the barrier to the deck.**

**\_\_Step 6:** Attach the barrier to the deck. See **Detail C**. Select the barrier, the deck, and the appropriate hardware. There are (4) four connections. Align barrier with the holes in the deck and attach as shown.

**Attach the tree climber to the barrier.**

**\_\_Step 7:** Attach the tree climber to the barrier. See **Detail D**. Select the barrier, the tree climber, the arch bottom climber connector, the arch top climber connector, and the appropriate hardware. There is (1) one connection. Align pieces around the barrier and attach as shown.

**Important Note:** When tightening the tree climber bolt, insure that the climber is plumb with the deck and barrier as shown in the **Elevation View**.

**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.

**\_\_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.

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## PM8180 - 36 in (914 mm) DECK TREE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0039	CLIMBER - 36" TREE 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	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" TMPR RSTNT 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

## PM8200 - 60 in (1524 mm) DECK TREE CLIMBER

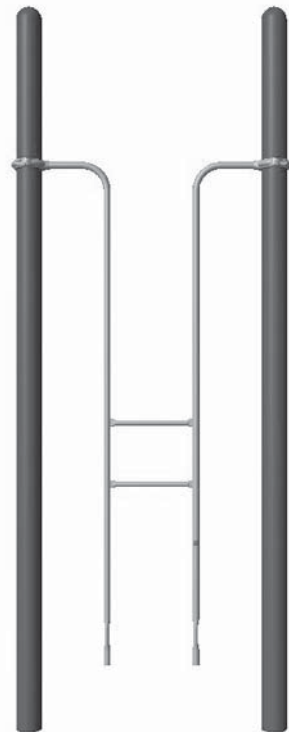
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0043	CLIMBER - 60" TREE w/ LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65 31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	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" TMPR RSTNT 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

## PM8190 - 48 in (1219 mm) DECK TREE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0041	CLIMBER - 48" TREE 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	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" TMPR RSTNT 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

## PM8210 - 72 in (1829 mm) DECK TREE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0045	CLIMBER - 72" TREE 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	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" TMPR RSTNT 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



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

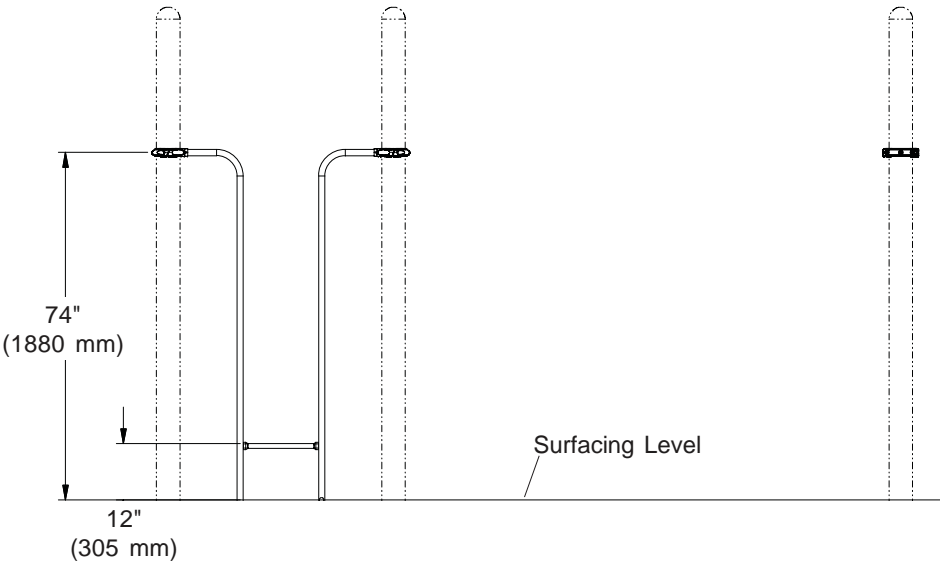
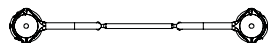
1, 2, and 3 Rung Overhead Event Access Ladder  
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

### 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

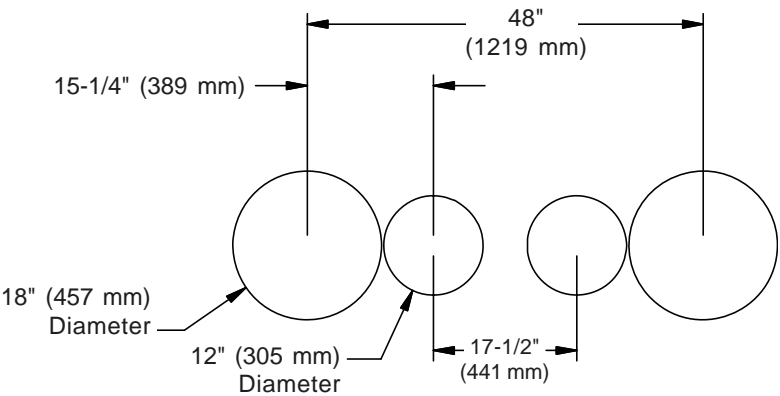
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Pour Concrete
	Drill
	Hammer
	Dig Footing Holes
	Critical Fall Height

# Installation Instructions

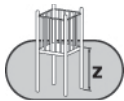


Elevation View

Elevation Views  
PM5950



Footing Diagram  
All Models



EN: 305 mm



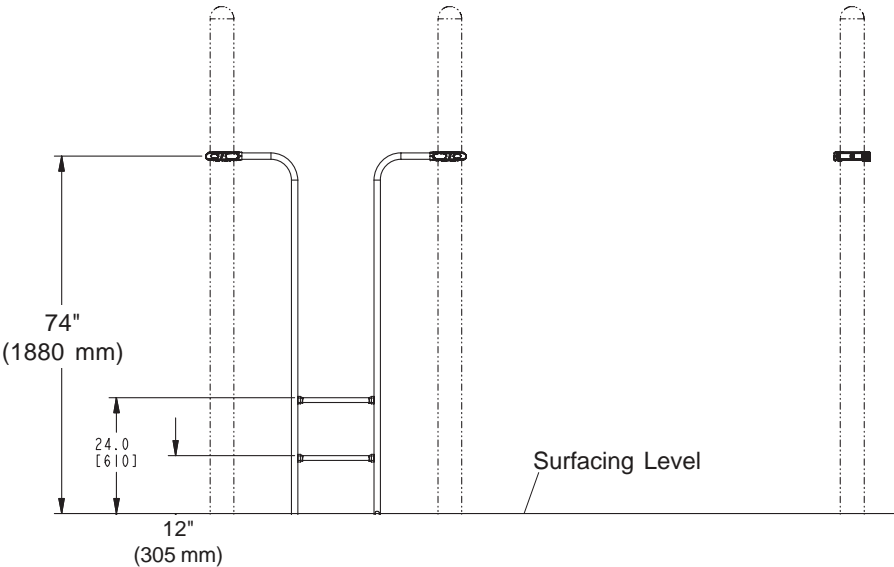
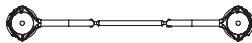


# Installation Instructions

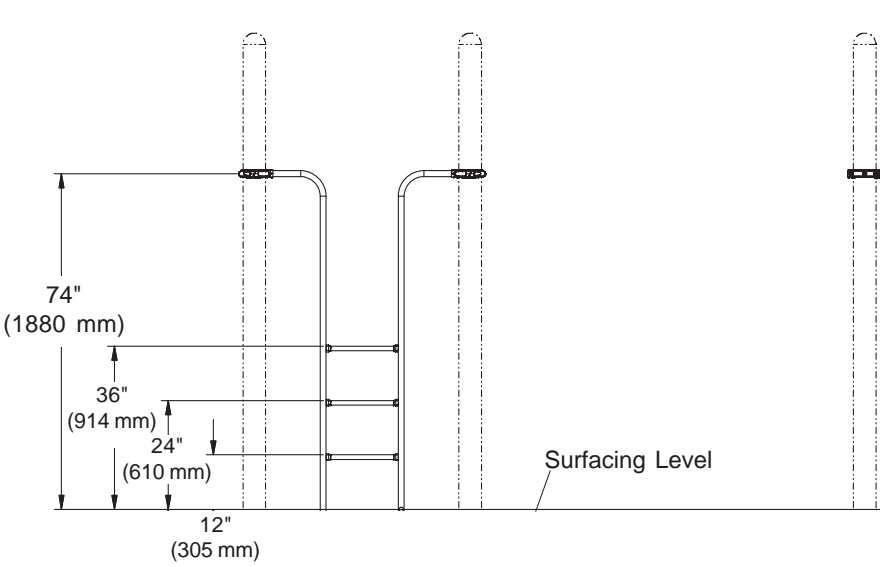
Top View



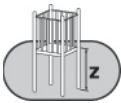
Top View



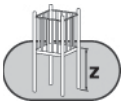
Elevation Views  
PM5960



Elevation Views  
PM5970



EN: 610 mm

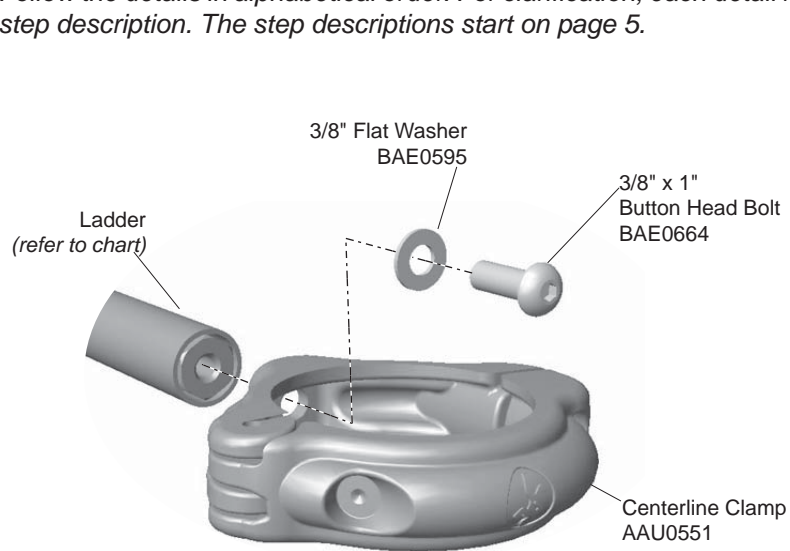


EN: 915 mm



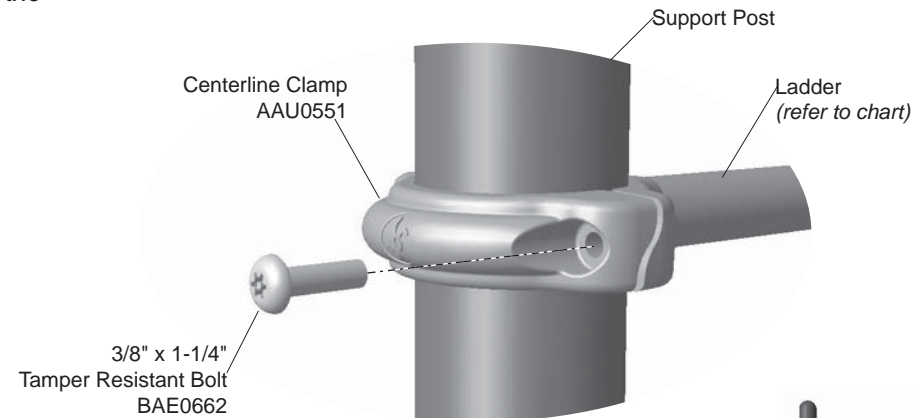
# Installation Instructions

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

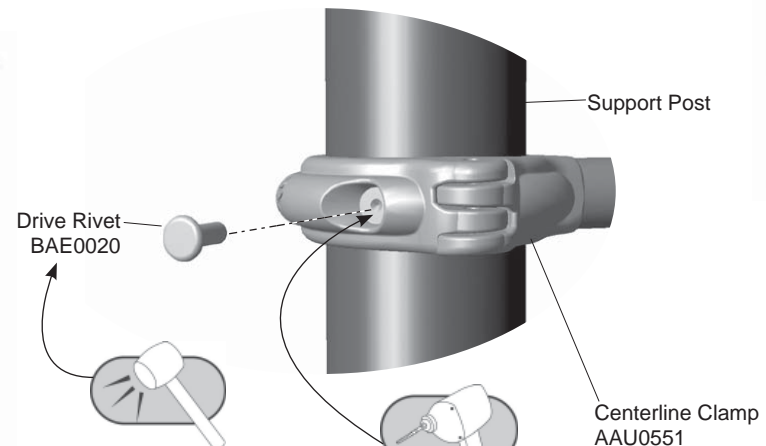


**Detail A**  
Step 4

Model	Ladder Part Number
ZZPM5950	ACL0107
ZZPM5960	ACL0109
ZZPM5970	ACL0111



**Detail B**  
Step 5



**Detail C**  
Step 7

# 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 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.

## SUPERVISION INSTRUCTIONS

### PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)

- 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

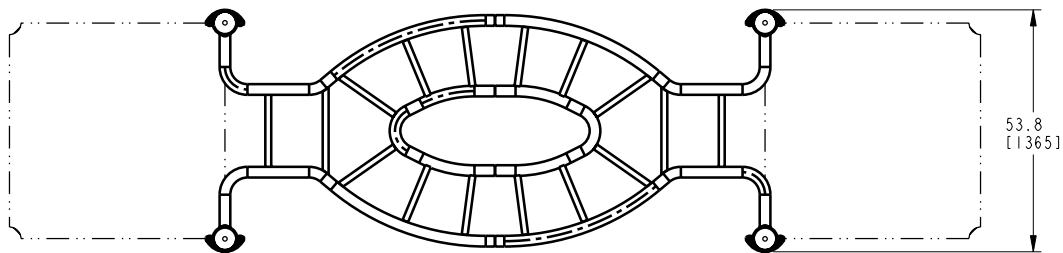
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



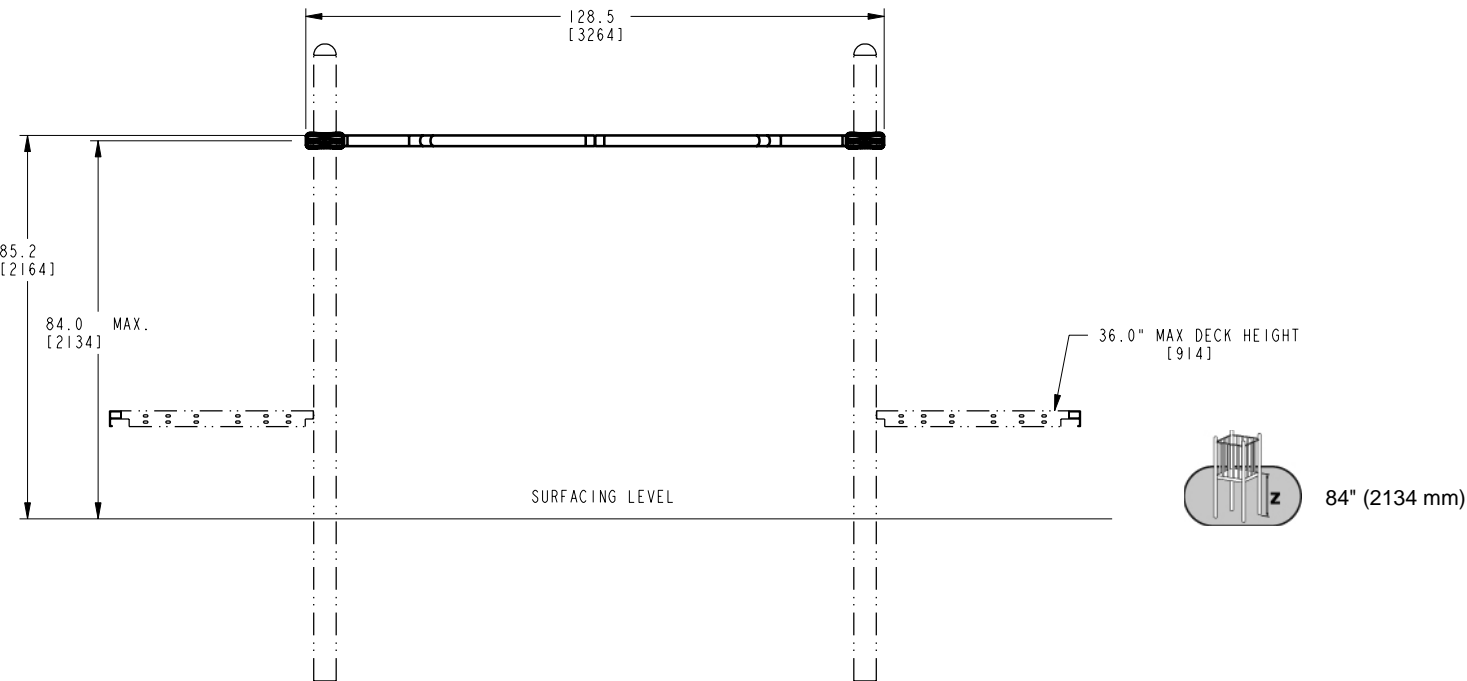
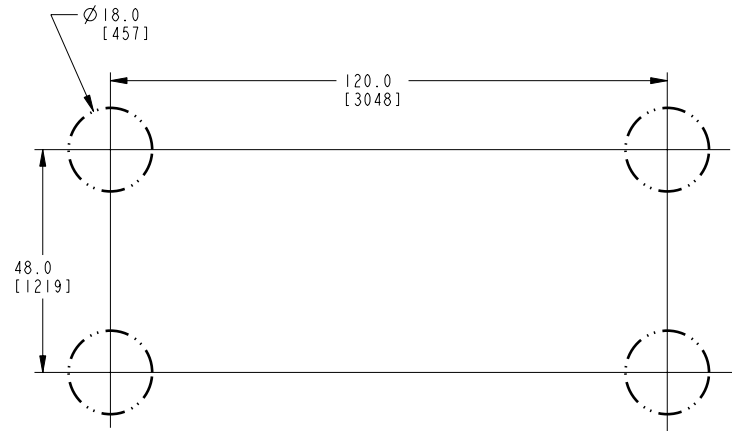
# Installation Instructions

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

Top View



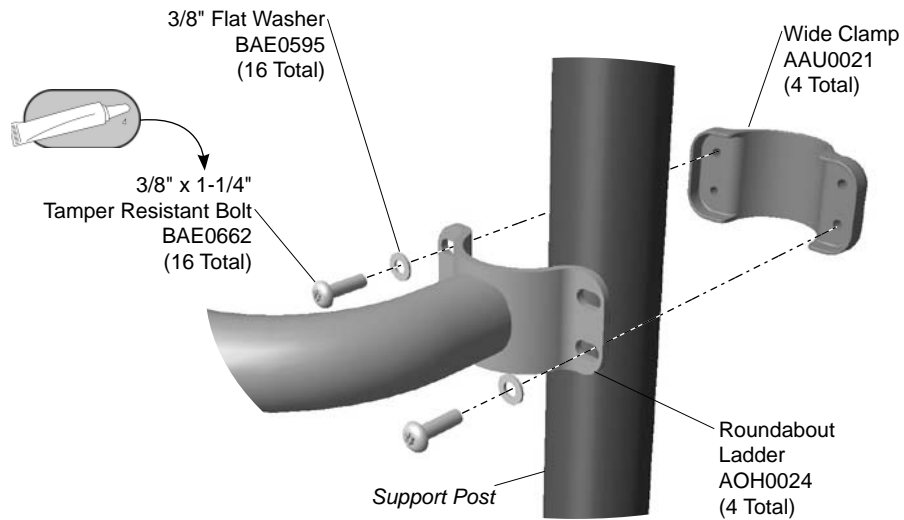
Footing Diagram



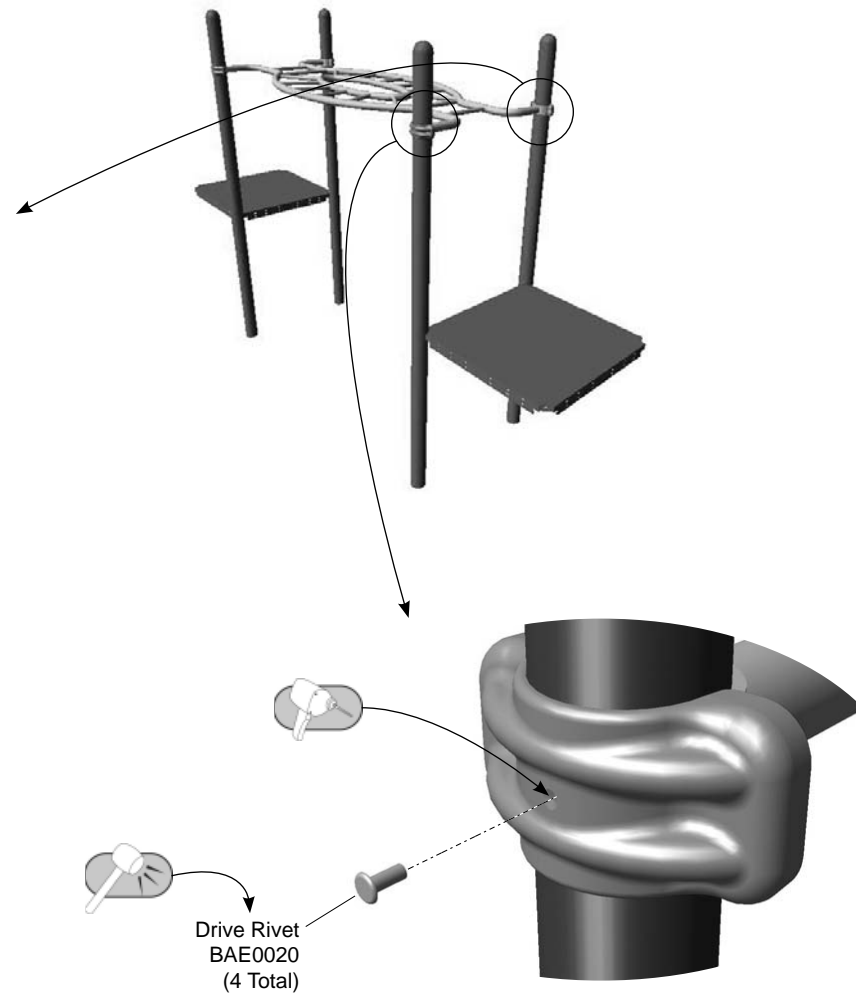
Elevation View

# 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.

## 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" TPR RESISTANT w/TORX DRIVE	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View

Installation Instructions  
Playmakers® Model PM6590  
6 ft. (1829 mm) Arch Bridge

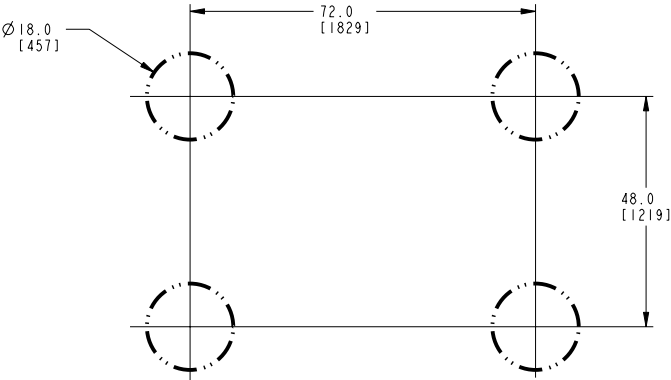
Installation Preparation

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

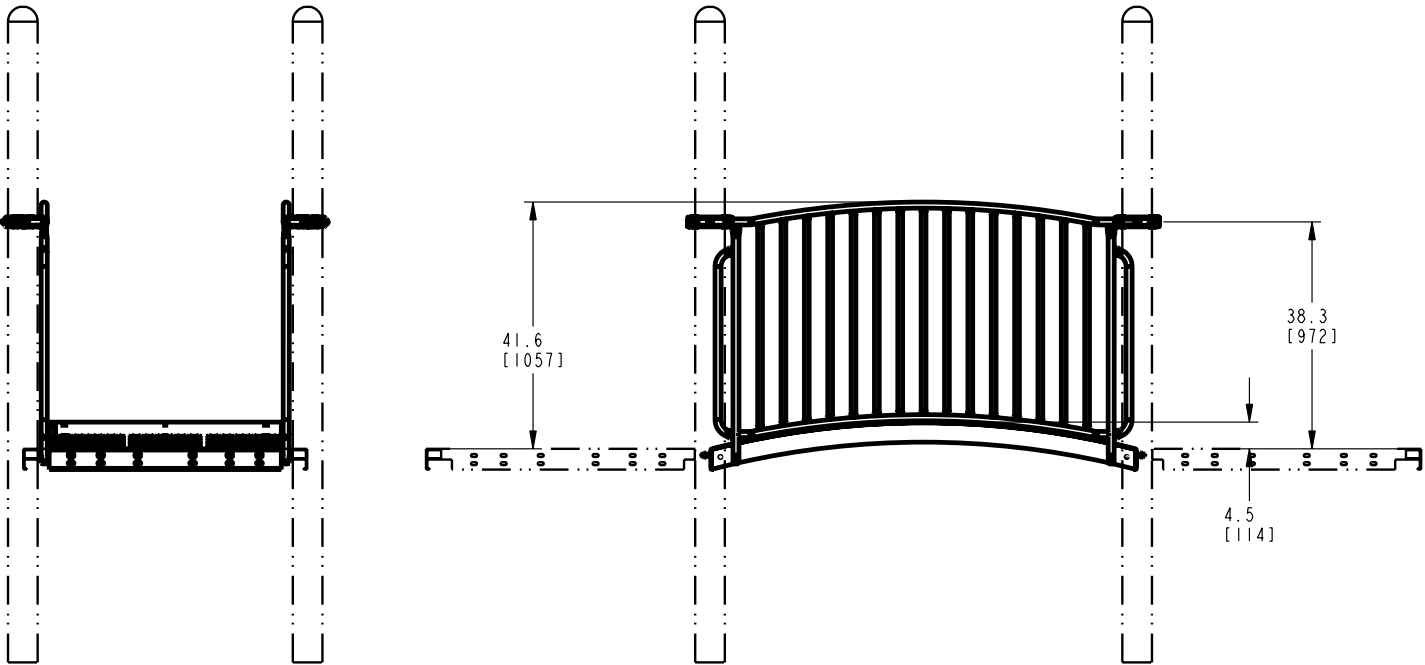
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

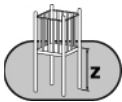
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View

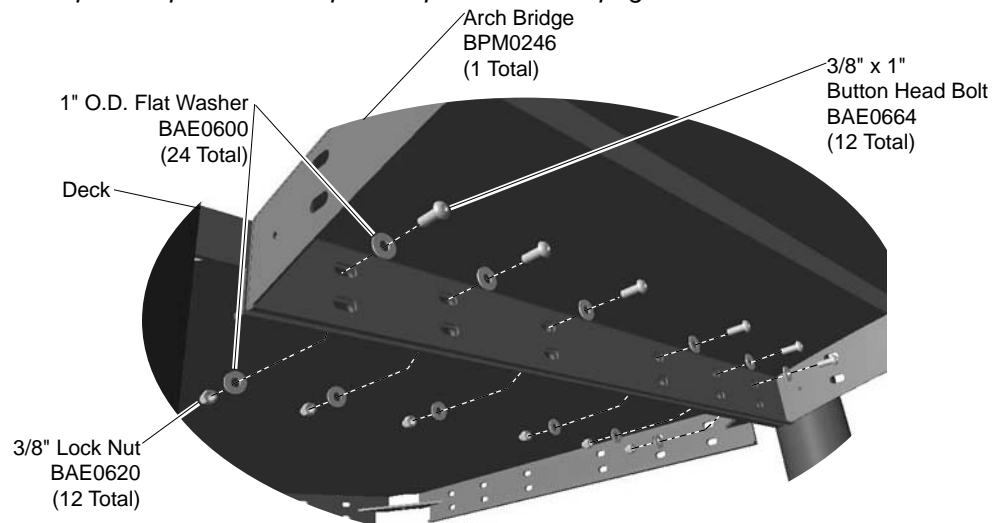


Height of the deck plus  
8.5" (215 mm)



# Installation Instructions

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



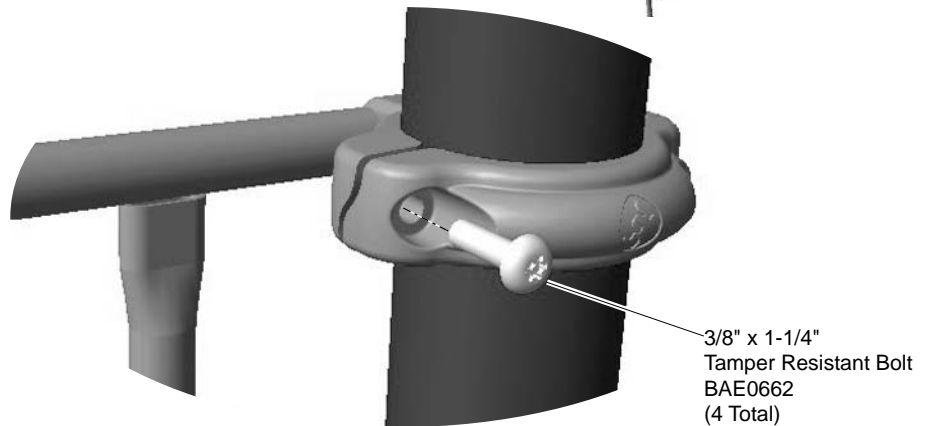
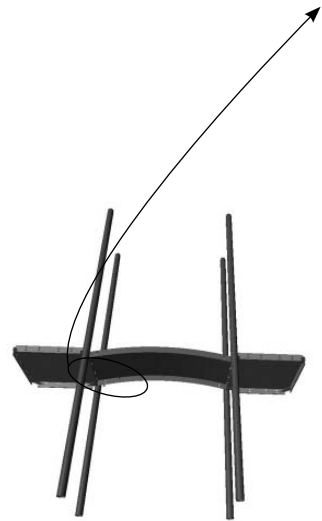
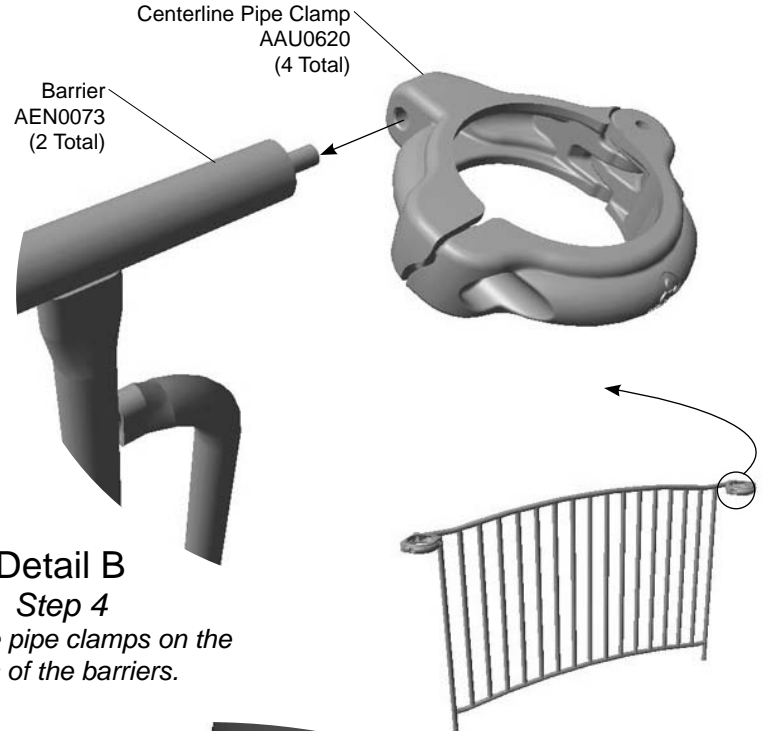
**Detail A**  
**Step 3**

Attach the bridge section to the decks.



**Detail B**  
**Step 4**

Place the pipe clamps on the ends of the barriers.

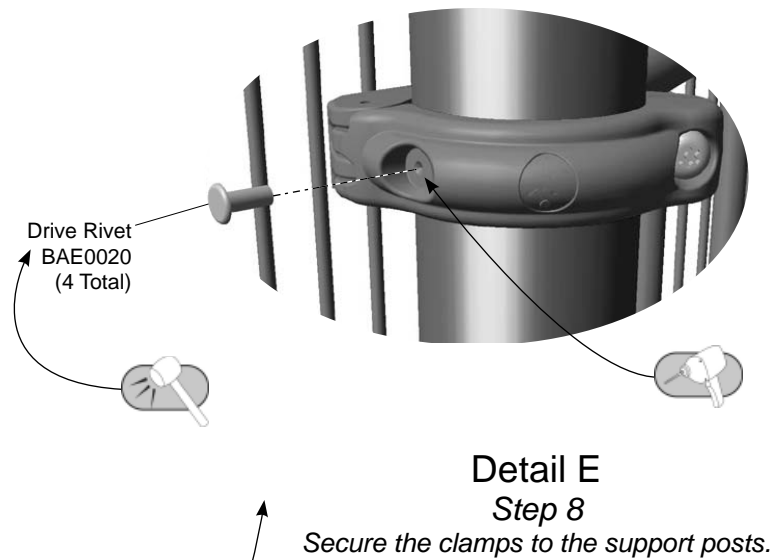
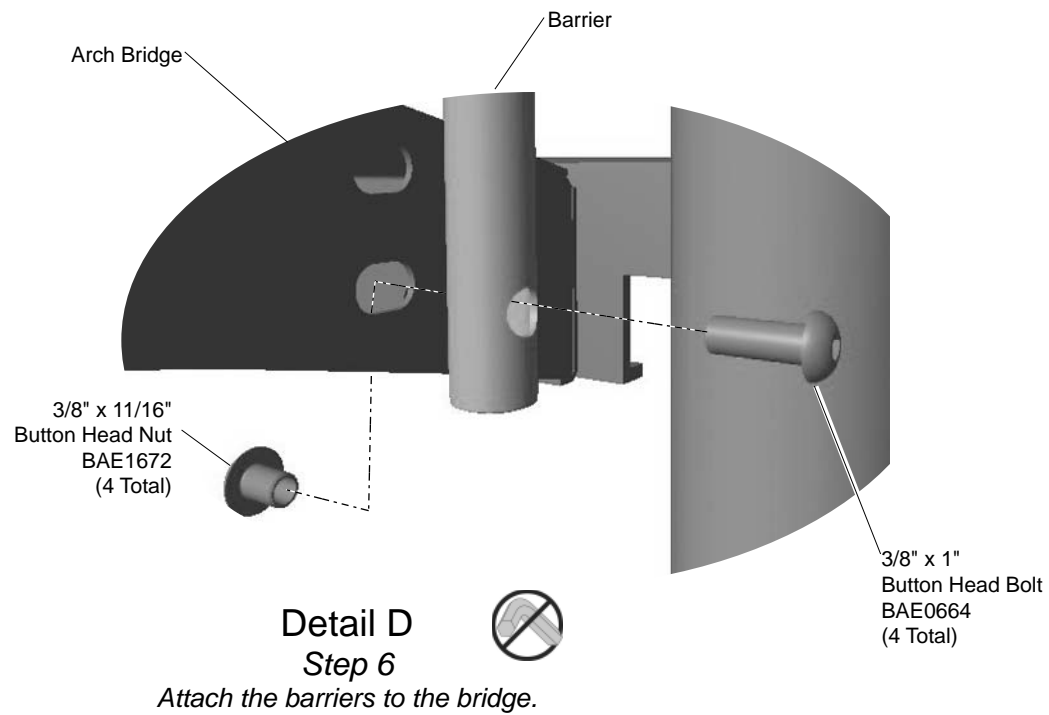


**Detail C**  
**Step 5**

Attach the barriers to the support posts.



# Installation Instructions



# 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.

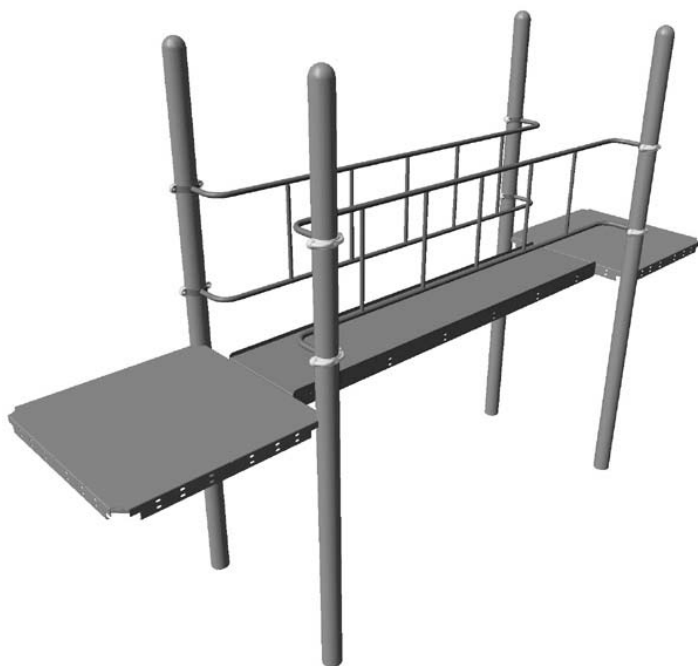
**Note:** This step should be executed after structure has been assembled and properly footed.

**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
BPM0246	ARCH- 71.75" x 8" x 39.13" x 8.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View (representative model)




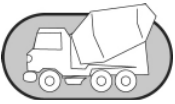
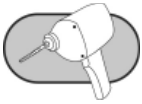


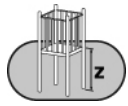
## Installation Instructions

Playmakers® Model PM6896 and PM6897  
6 ft. (1829 mm) and 10 ft. (3048 mm)  
Catwalk w/ Guardrail

### Installation Preparation

Recommended Crew: ..... Four (4) adults  
Installation Time: ..... 2 man-hours  
Use Zone: ..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

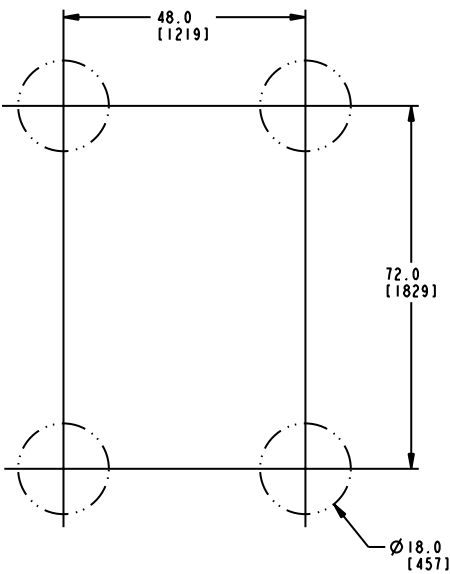
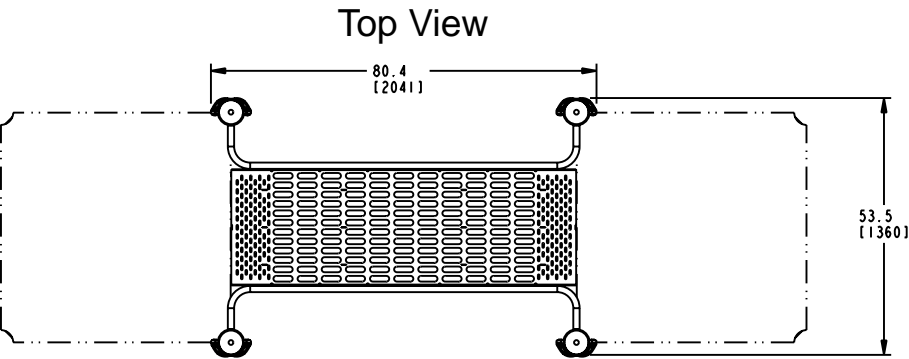
#### ICON KEY

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

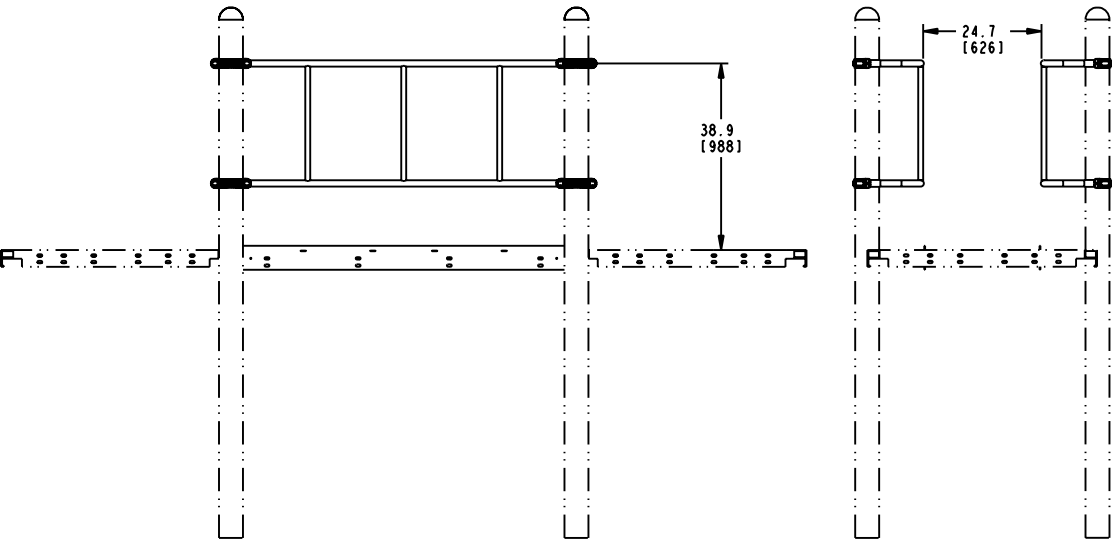
# Installation Instructions

KEY

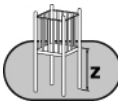
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View  
PM6896



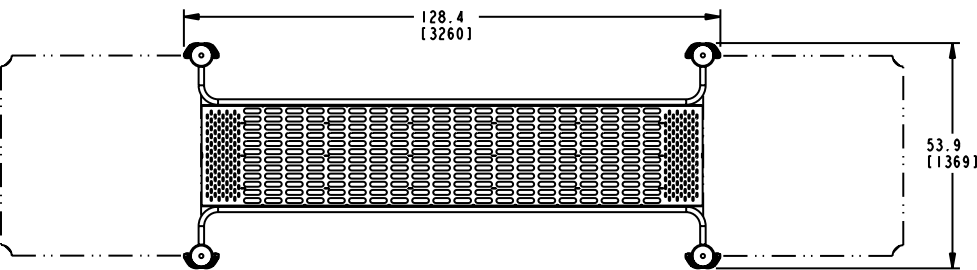
Equal to the height of the deck.



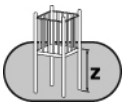
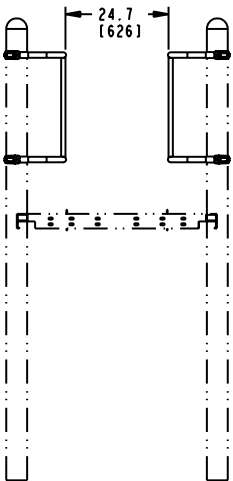
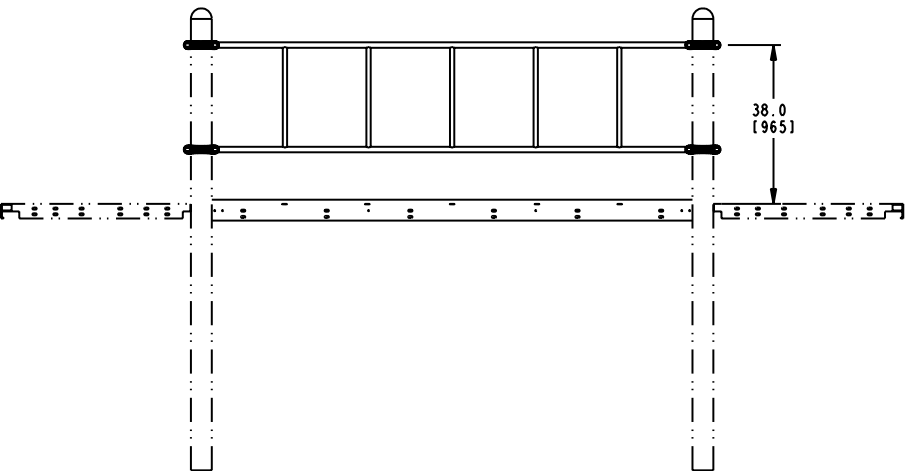
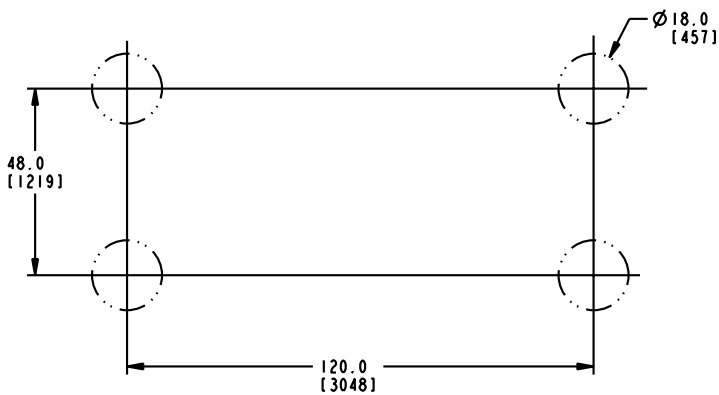
# Installation Instructions

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

Top View



Footing Diagram



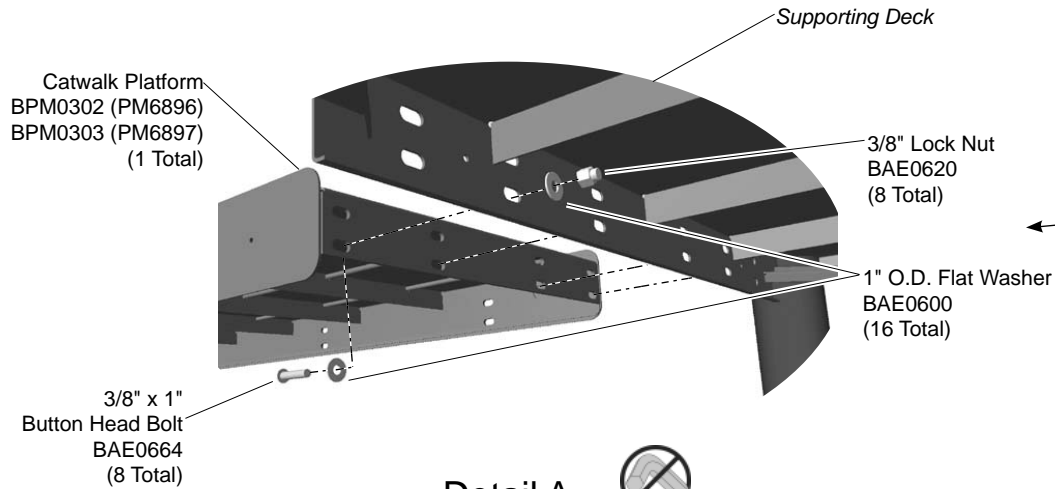
Equal to the height of the deck.

Elevation Views  
PM6897



# Installation Instructions

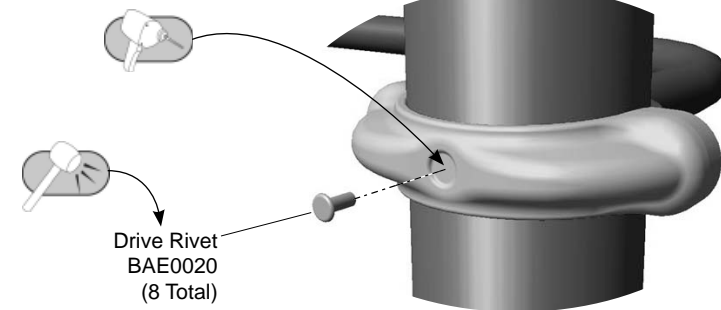
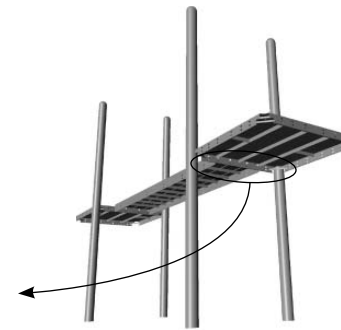
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



**Detail A**

**Step 3**

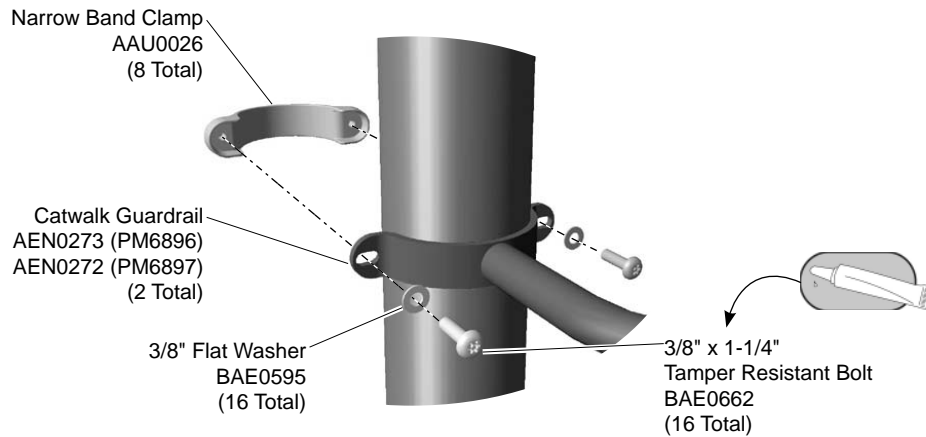
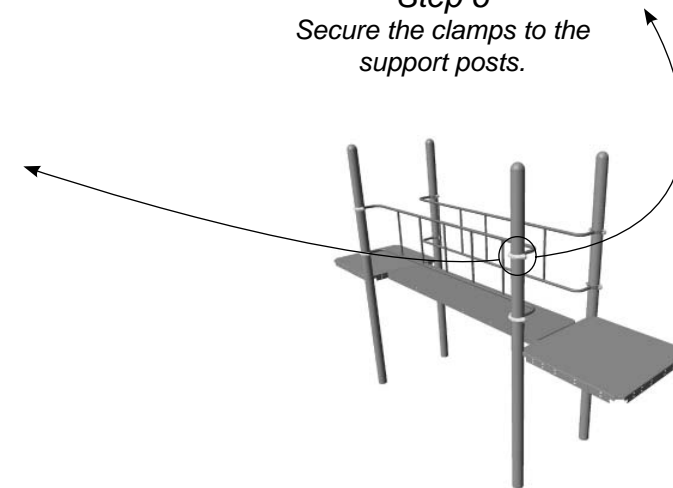
*Attach the catwalk to the decks.*



**Detail C**

**Step 6**

*Secure the clamps to the support posts.*



**Detail B**

**Step 4**

*Attach the guardrails to the support posts.*



# Installation Instructions

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**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 catwalk to the decks.**

**Step 3:** Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

**Attach the guardrails to the support posts.**

**Step 4:** Attach the guardrails to the support posts. See **Detail B**. Position each guardrail between the support posts at the height indicated on the **Elevation View**. Position the clamps around the posts and attach to the guardrails as shown. The guardrails should be on the catwalk side of the posts.

**Final Details.**

**Step 5:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk it flush to and level with the deck.

**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, 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.

## PM6896 - 6 ft. (1829 mm) CATWALK w/ GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
AEN0273	GUARDRAIL - 79-7/8" x 26-7/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

## PM6897 - 10 ft. (3048 mm) CATWALK w/ GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
AEN0272	GUARDRAIL - 127-7/8" x 26-7/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1



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Assembly View

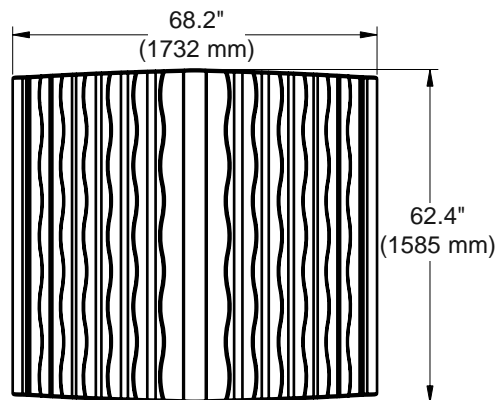
Installation Instructions  
Playmakers®  
Model PM9846  
Cabana Roof

**Installation Preparation**

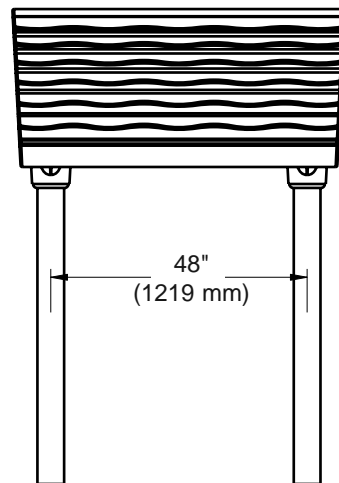
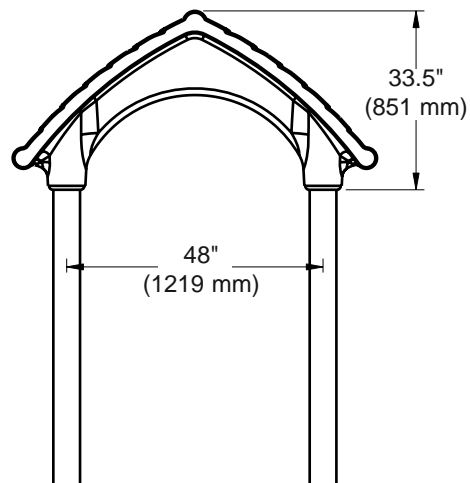
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 123 lbs. (55,9 kg)

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

# Installation Instructions



Top View



Elevation Views  
ZZPM9846

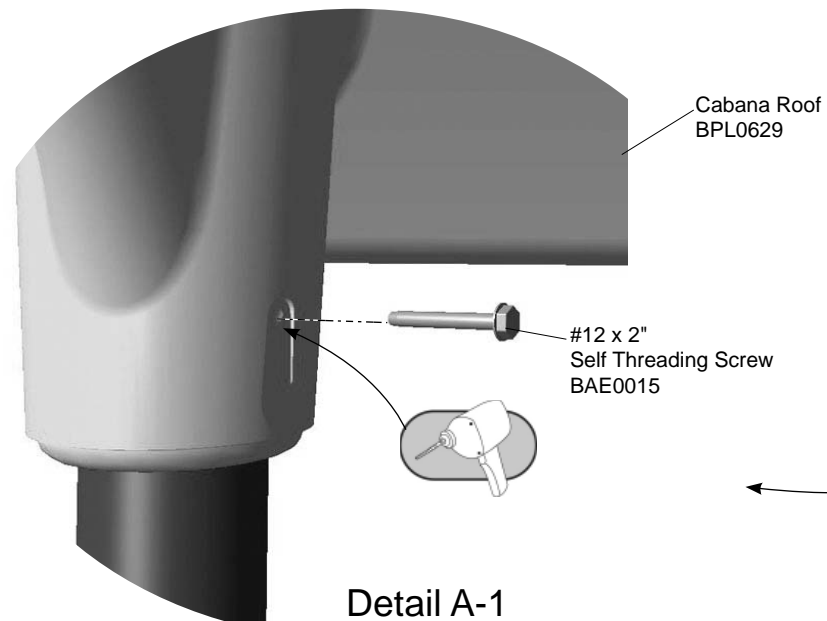


# Installation Instructions

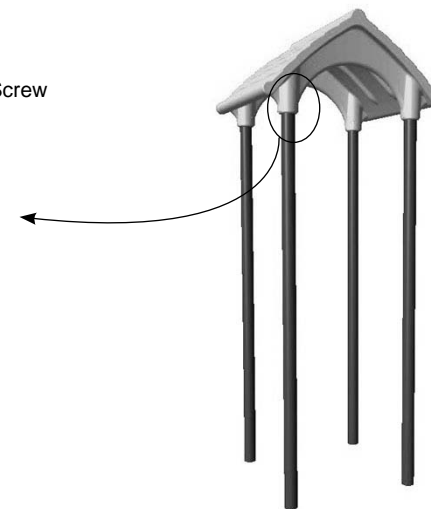
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1  
Step 3



Detail A-1  
Step 3



# Installation Instructions

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**\_\_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.

## 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 (representative model)

## Installation Instructions

### Playmakers®

Models PM9168, PM9170 and PM9177  
Deck to Deck Accessible Tiered Platform  
12 in. (305 mm), 24 in. (610 mm) and  
36" (914 mm) Rise Height

### Installation Preparation

Recommended Crew: ..... Two - Three (2-3) adults  
Installation Time: ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

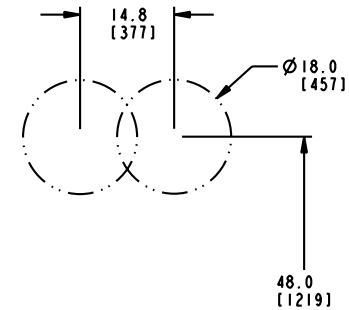
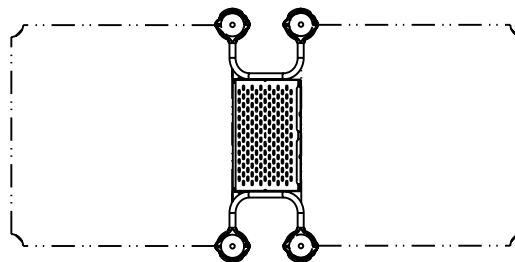
#### ICON KEY

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

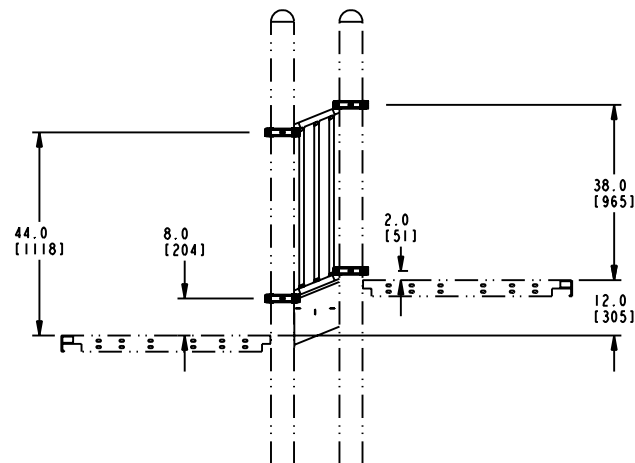
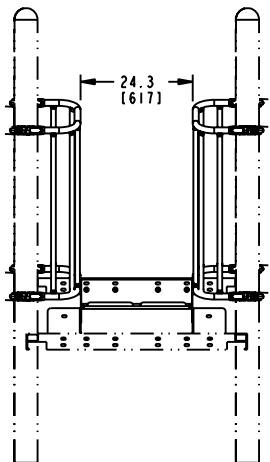
# Installation Instructions

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

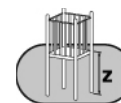
Top View



Footing Diagram



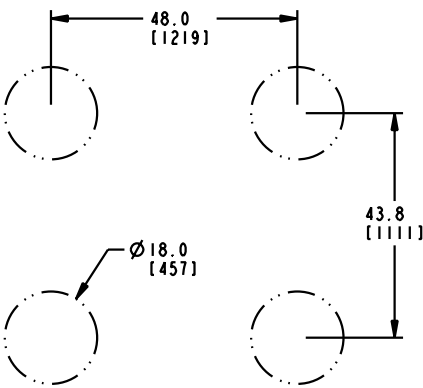
Elevation Views  
PM9168



Height of the upper deck  
minus 6" (152 mm)

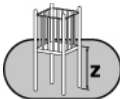
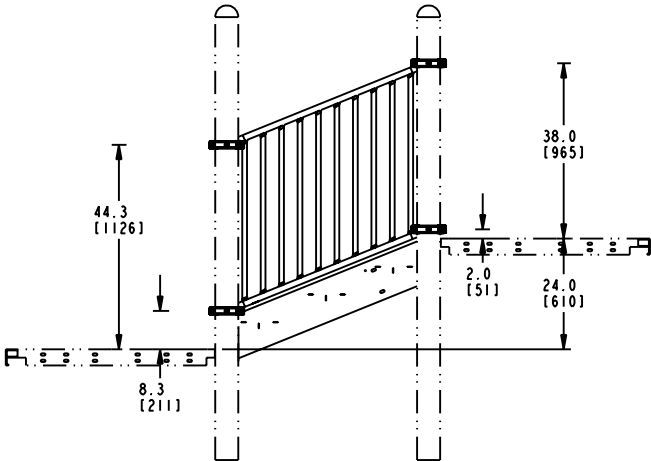
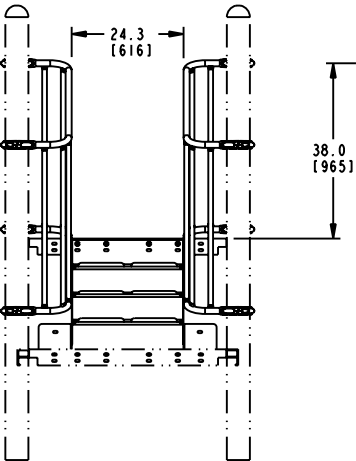
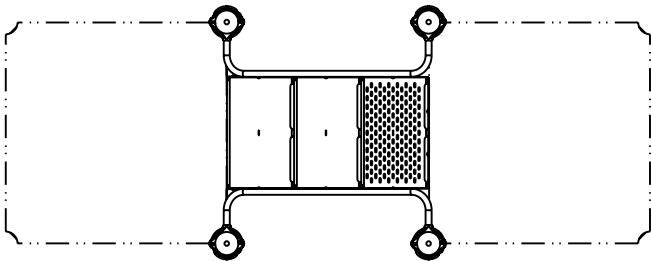
# Installation Instructions

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



Footing Diagram

Top View



Height of the upper deck  
minus 6" (152 mm)

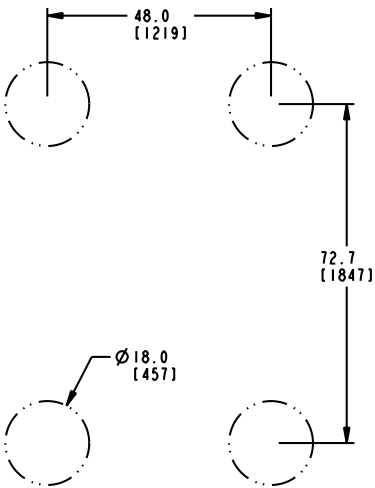
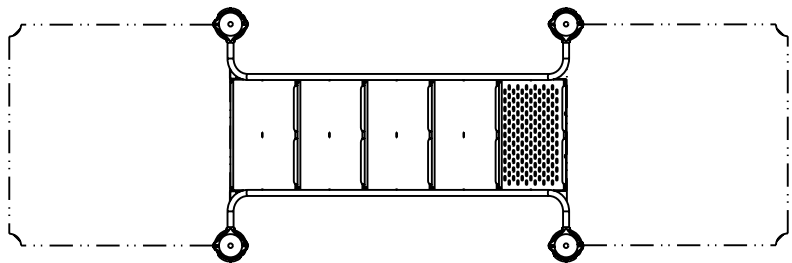
Elevation Views  
PM9170



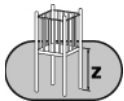
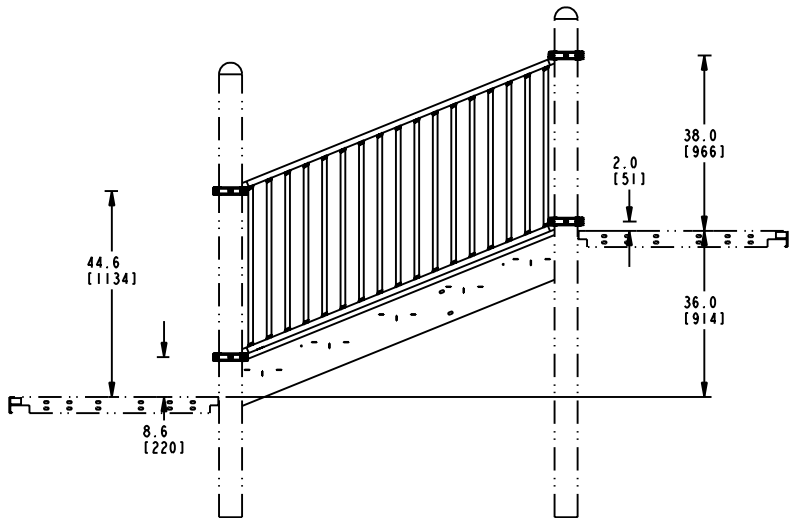
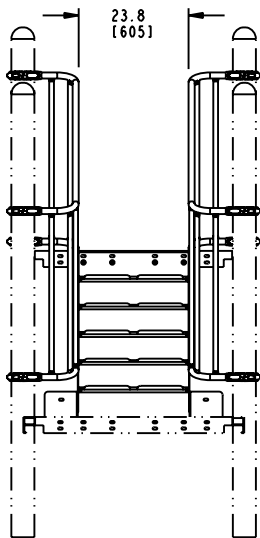
# Installation Instructions

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

Top View



Footing Diagram



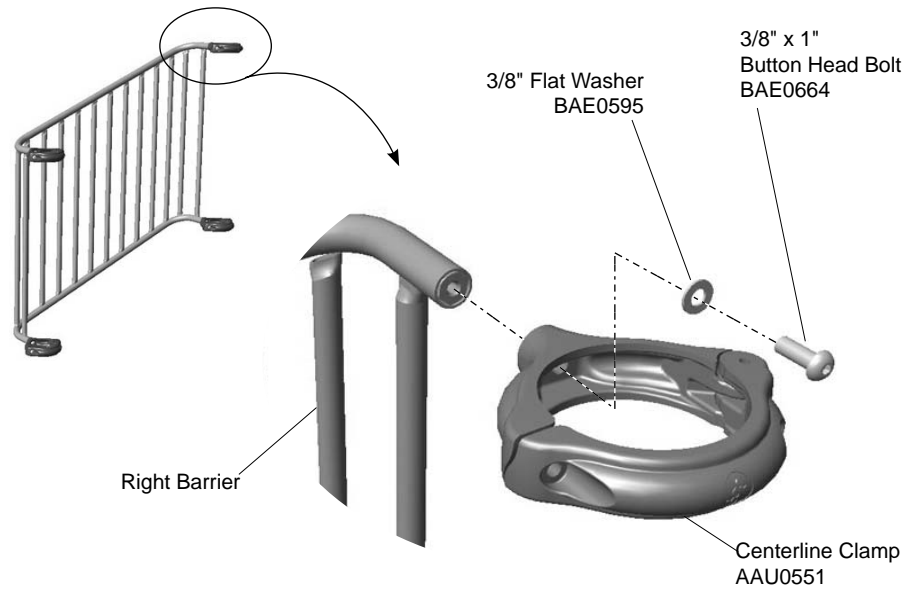
Height of the upper deck  
minus 6" (152 mm)

Elevation Views  
PM9177



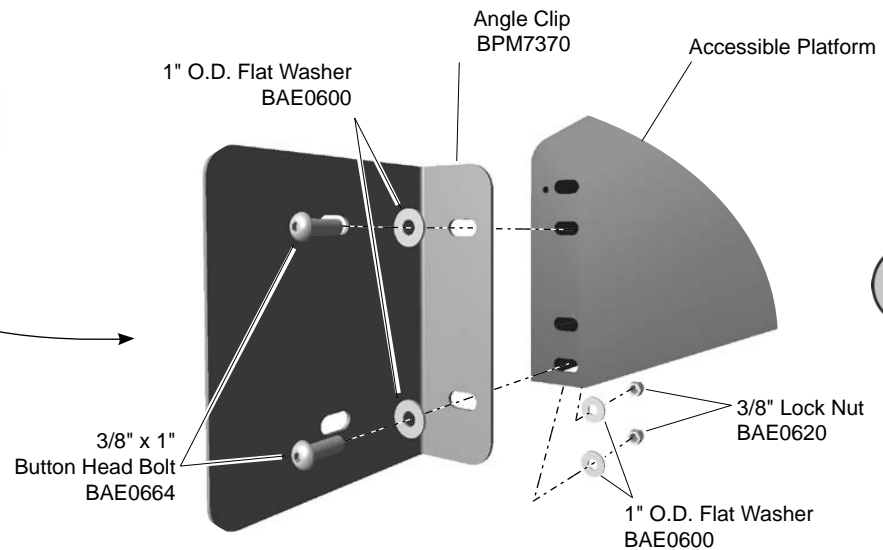
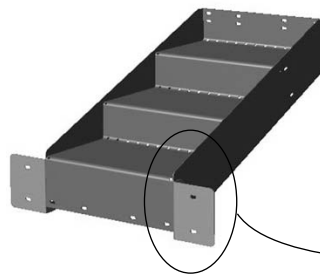
# Installation Instructions

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



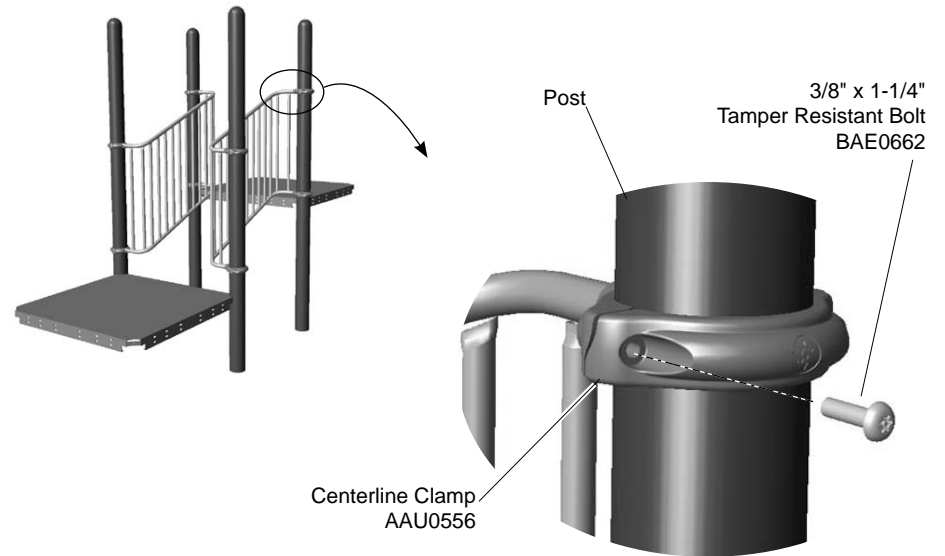
**Detail A**  
Step 4

The front of angle clip should be even with the face of the platform



**Detail C**  
Step 6

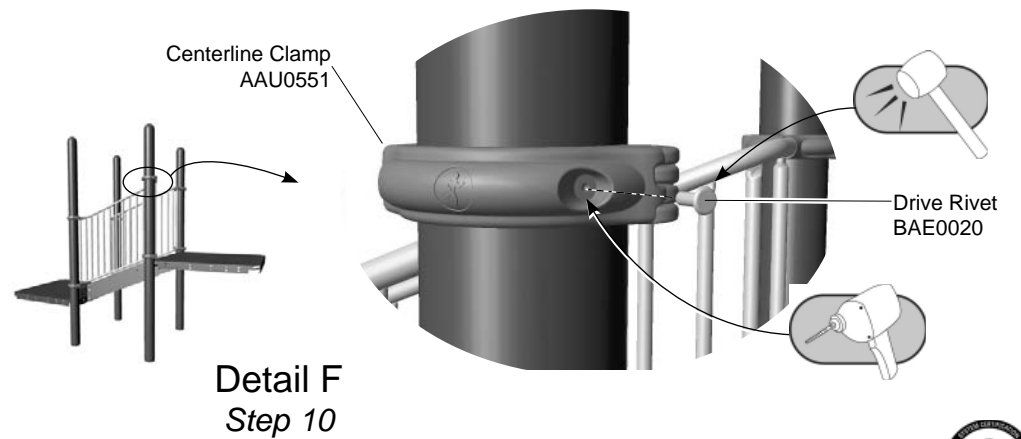
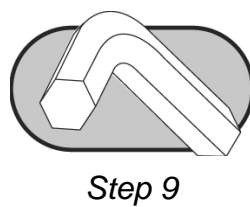
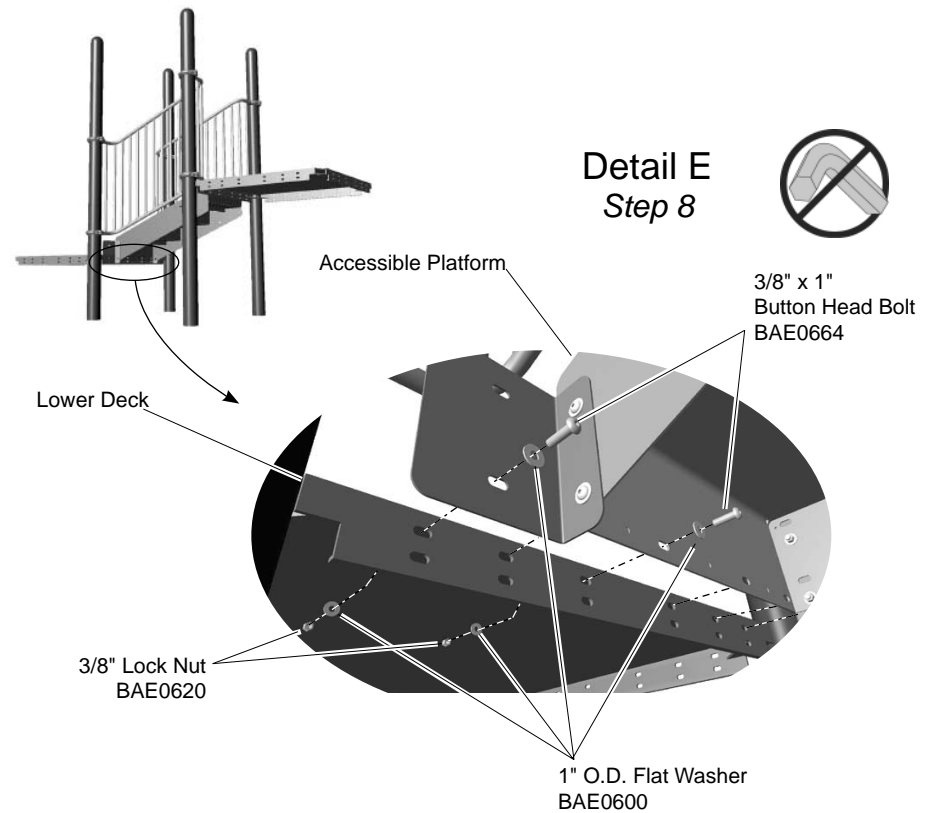
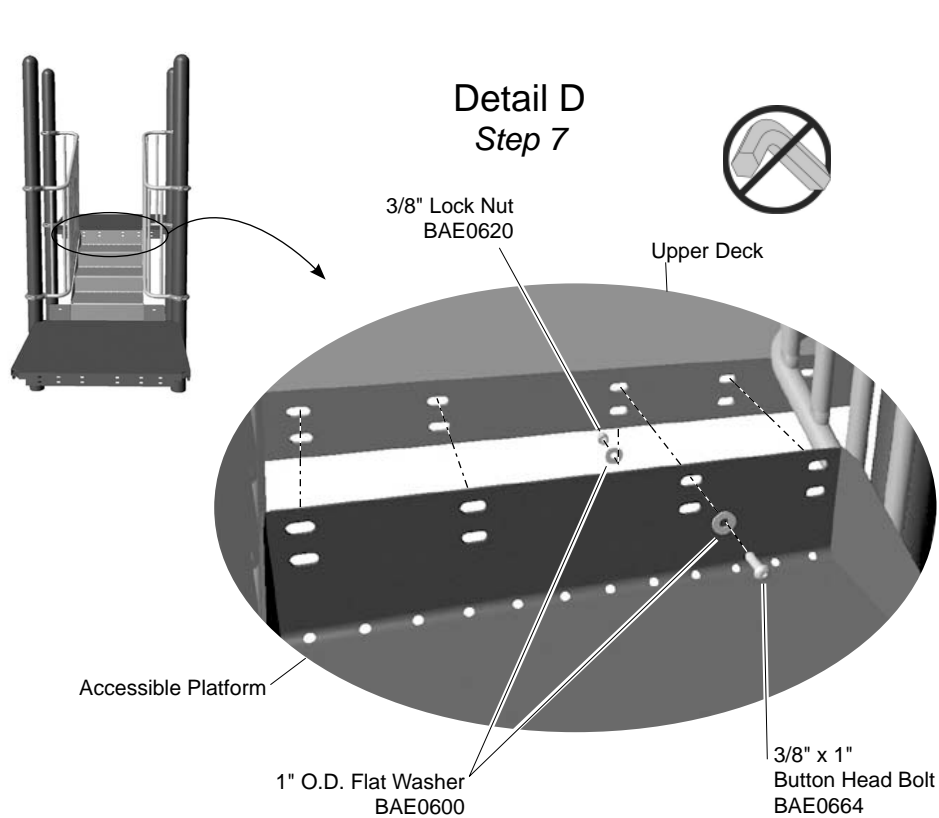
Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299



**Detail B**  
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.

**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.



## 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
BPM0296	STAIR - 12" ACCESSIBLE	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
BPM0299	STAIR - 36" ACCESSIBLE	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
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View

Model Number	Weight	Top Rail Height
ZZXX0223	24 Lbs. (10,9 Kilos)	7 ft. (2135 mm)
ZZXX0224	25.8 Lbs. (11,7 Kilos)	8 ft. (2440 mm)
ZZXX0225	29 Lbs. (13,2 Kilos)	10 ft. (3050 mm)

## Installation Instructions

Playworld Systems®

Models XX0223, XX0224, XX0225

Accessible Swing Seat w/ Galvanized Chain  
to 7 ft (2134 mm), 8 ft. (2438 mm),  
and 10 ft. (3048) Top Rail

### Installation Preparation

Recommended Crew: ..... One (1) adult

Installation Time: ..... 0.5 man hour

Weight: ..... (refer to table)

Use Zone: ..... Refer to swing set instructions

User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY



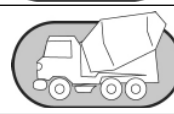
Fully Tighten  
Hardware



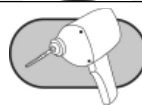
Add 1 Drop of  
Thread Locking Adhesive



Do **Not** Fully Tighten  
Hardware



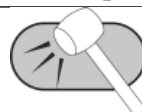
Pour Concrete



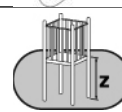
Drill



Dig Footing Holes



Hammer



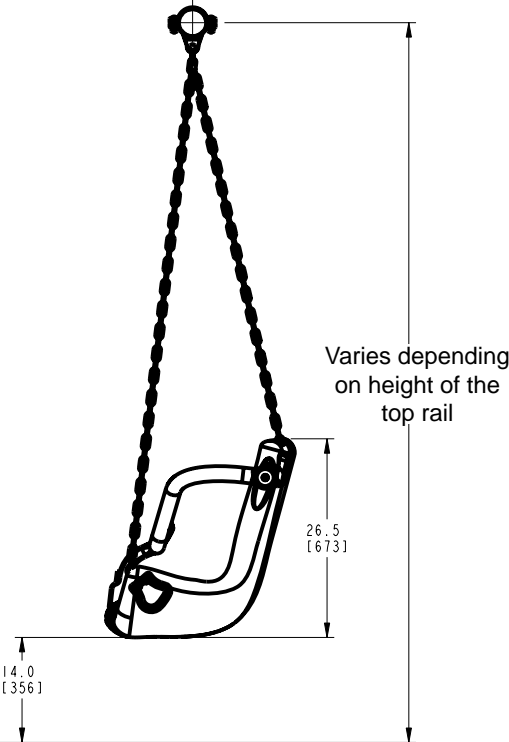
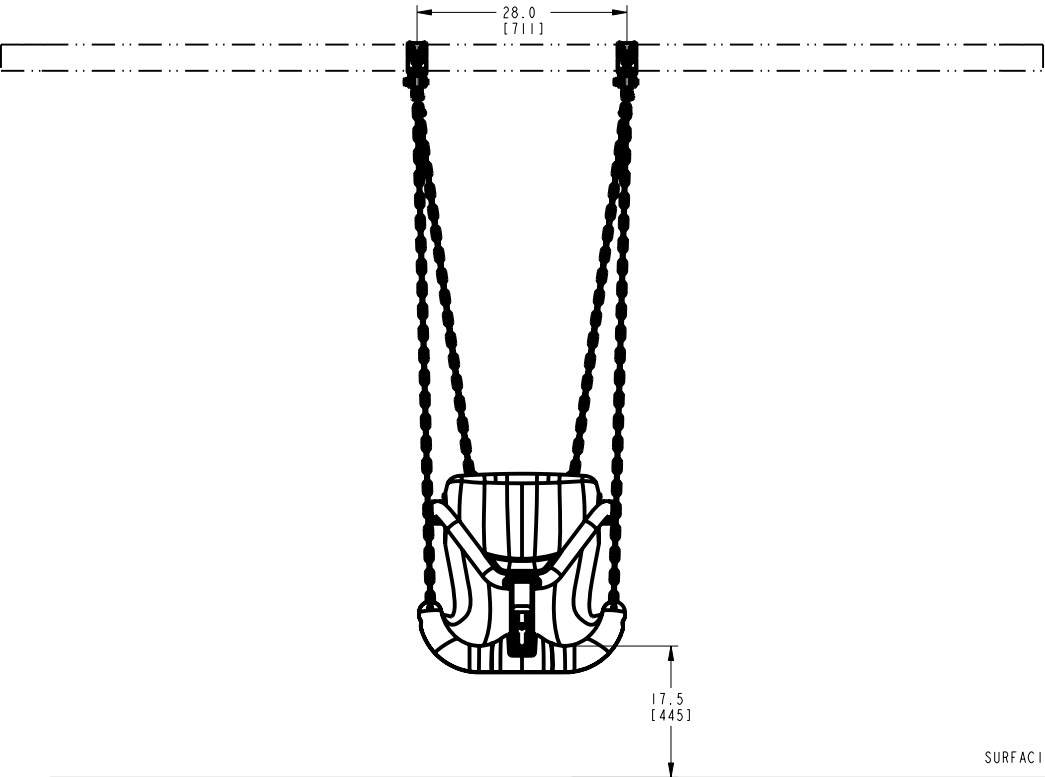
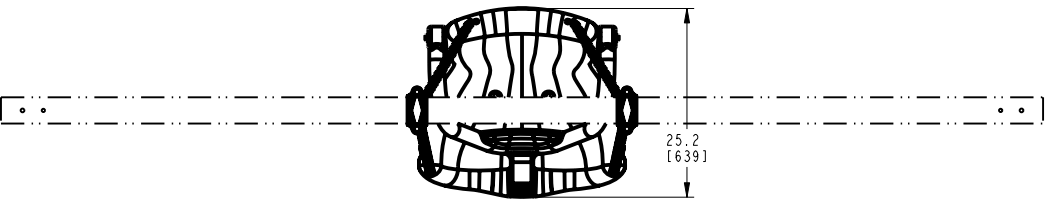
Critical Fall Height

# Installation Instructions

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

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0223	1240 mm	7 ft. (2135 mm)
ZZXX0224	1392 mm	8 ft. (2440 mm)
ZZXX0225	1697 mm	10 ft. (3050 mm)

Top View



Elevation Views

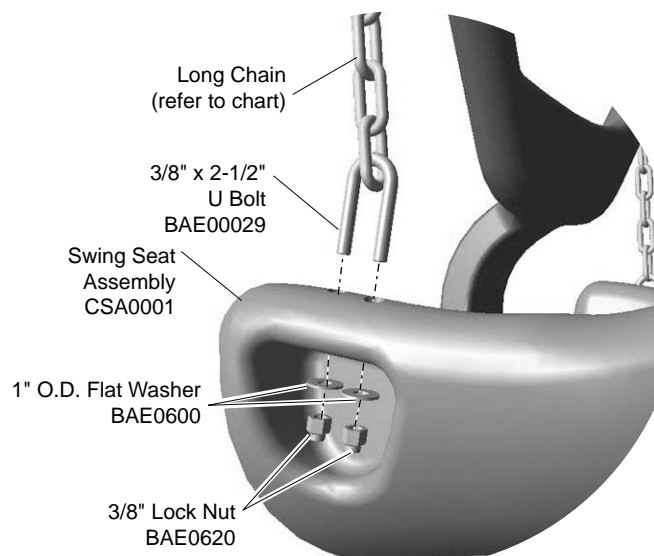


# Installation Instructions

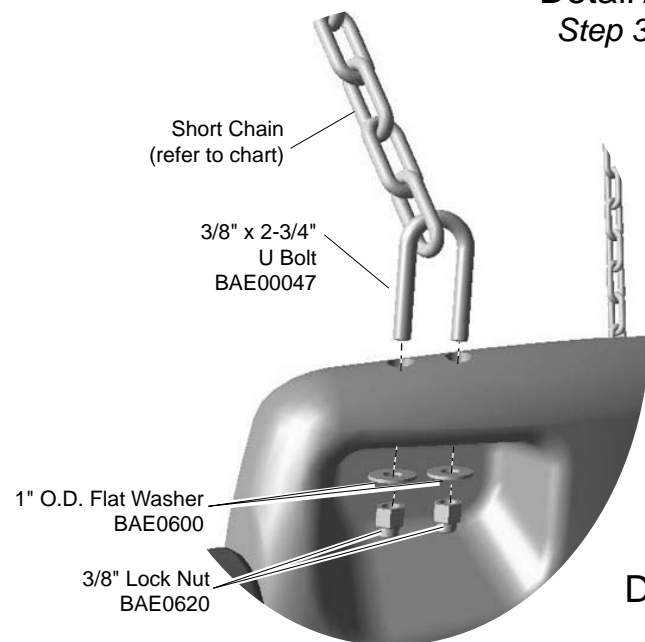
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.

**Note:** If using the 5" O.D. arch swing, put the shackle in the second chain link from the top.

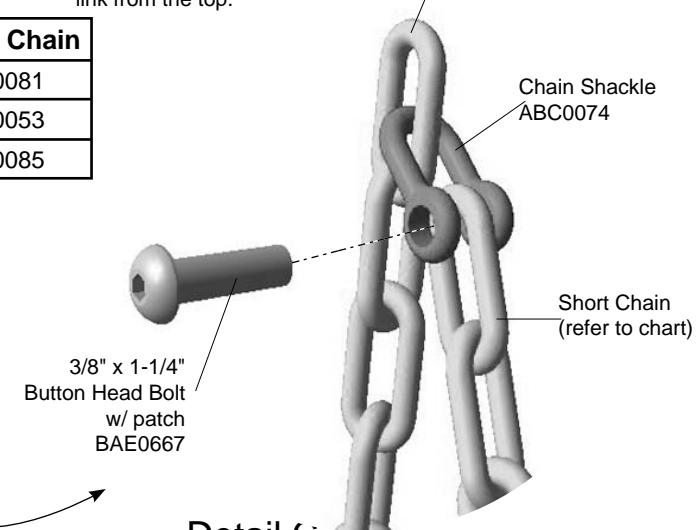
Model Number	Longer Chain	Shorter Chain
ZZXX0223	ACN0080	ACN0081
ZZXX0224	ACN0082	ACN0053
ZZXX0225	ACN0084	ACN0085



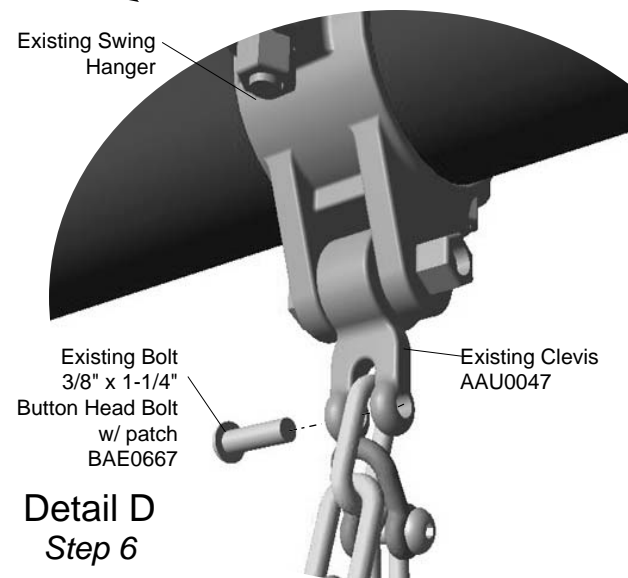
Detail A  
Step 3



Detail B  
Step 4



Detail C  
Step 5



Detail D  
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.

**Attach the longer chain assembly to the accessible swing seat.**

**\_\_Step 3:** See **Detail A**. Select the accessible swing seat, the longer chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of each arm rest. Attach as shown.

**Attach the shorter chain assembly to the accessible swing seat.**

**\_\_Step 4:** See **Detail B**. Select the shorter chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of the seat back. Attach as shown.

**Connect the chains.**

**\_\_Step 5:** See **Detail C**. Select the swing seat assembly, (2) two shackles, and the appropriate hardware. There are (2) two connections. Thread a shackle through the last link of one of the longer "front" chains. Insert the last link of the shorter chain into the open end of the shackle. Insert a bolt through the unthreaded side of the shackle, *through the last link* of the shorter chain, and thread into the opposite side of the shackle. Repeat for the other set of chains.

**Attach the seat assembly to the swing hangers.**

**\_\_Step 6:** See **Detail D**. There are (2) two connections. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex wrench. Select the swing seat and place the last link of the longer chain into the open end of the clevis. Re-insert the bolt through the unthreaded side of the clevis, *through* the chain link, and thread into the opposite side of the clevis.

**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.

**Important Note:** The vertical distance between an occupied seat and the protective surface should be at least 14" (356 mm). Remove any excess chain.

**Usage instructions:** Place child in swing and pull the harness down around child. Pull the rubber latch up until the hole aligns with the protrusion on the harness. Press the rubber latch onto the harness to secure. To release the latch, pull the rubber up and out until the harness is released. Do **NOT** attempt to pull harness out of swing seat without disengaging the latch first.

## ZZXX0223 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 7 ft. (2134 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0080	CHAIN - 57.00" 4/0 GALVANIZED	2
ACN0081	CHAIN - 40.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1

## ZZXX0225 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 10 ft. (3048 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0084	CHAIN - 93.00" 4/0 GALVANIZED	2
ACN0085	CHAIN - 75.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1

## ZZXX0224 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0053	CHAIN - 52" 4/0 GALVANIZED	2
ACN0082	CHAIN - 69.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	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.

#### 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.

#### 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 coating repair touch-up kit.

#### 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® Model XX0223,  
XX0224, XX0225  
Accessible Swing Seat  
w/ Galvanized Chain  
to 7 ft (2134 mm), 8 ft. (2438 mm),  
and 10 ft. (3048) Top Rail



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[www.playworldsystems.com](http://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 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			

<b>Inspection Codes</b>
<b>P</b> = Pass <b>F</b> = Fail
<b>NA</b> = 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: \_\_\_ / \_\_\_ / \_\_\_





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 Swing Chain






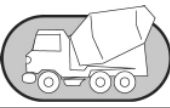

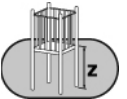
### Installation Preparation

Recommended Crew: ..... One (1) adult

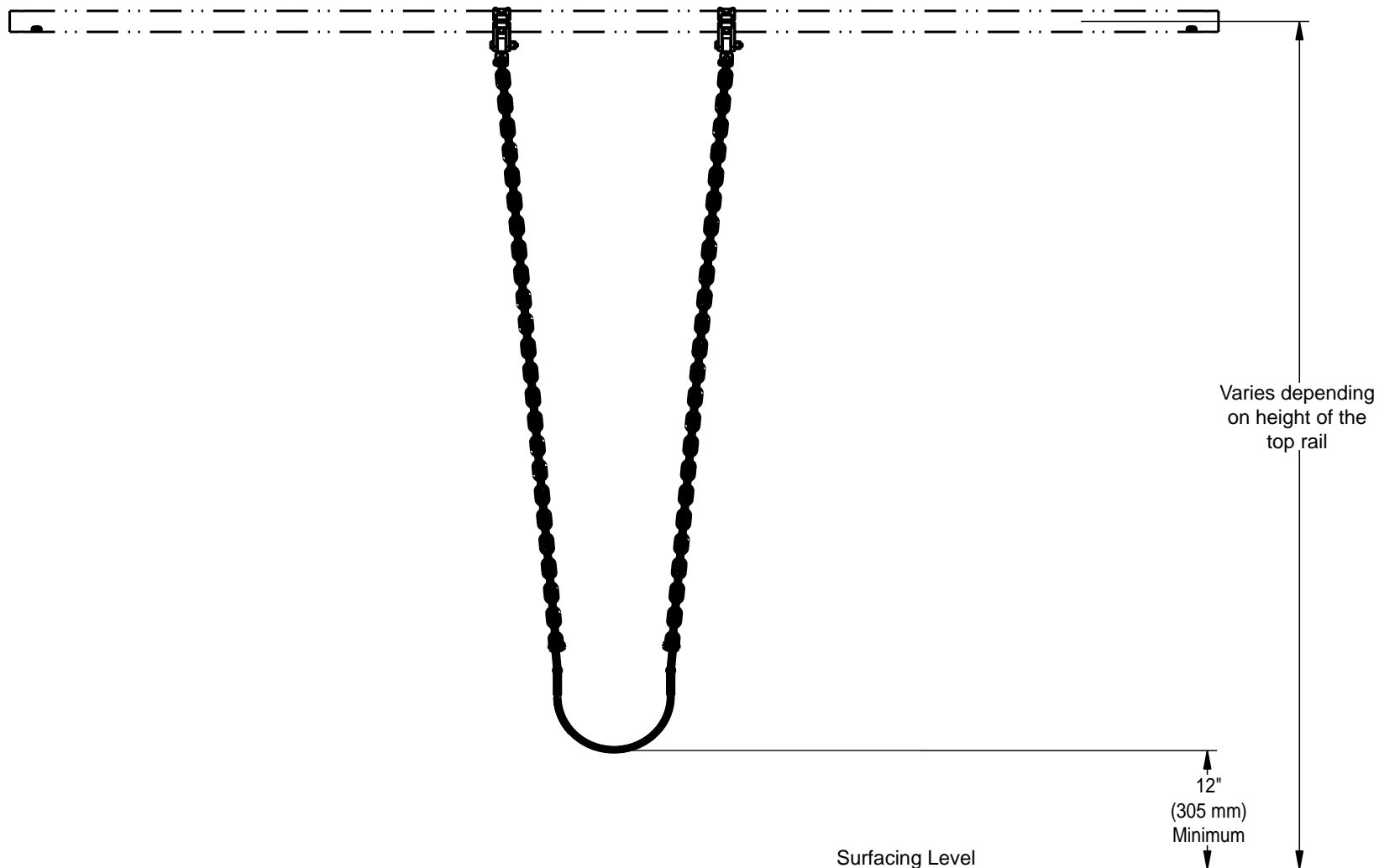
Installation Time: ..... 0.25 hour

Use Zone: ..... Refer to the swing frame instructions

User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

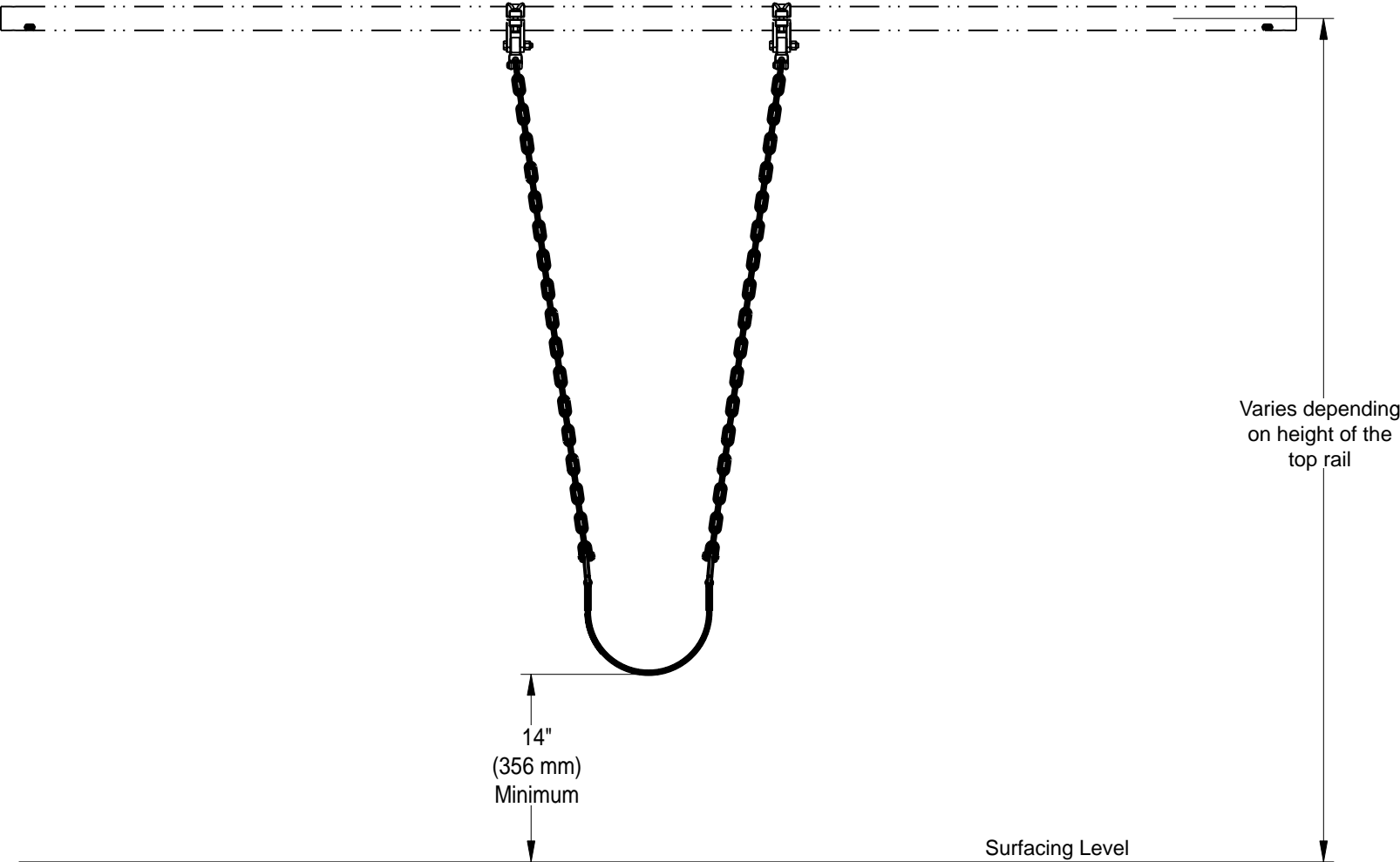
# Installation Instructions



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



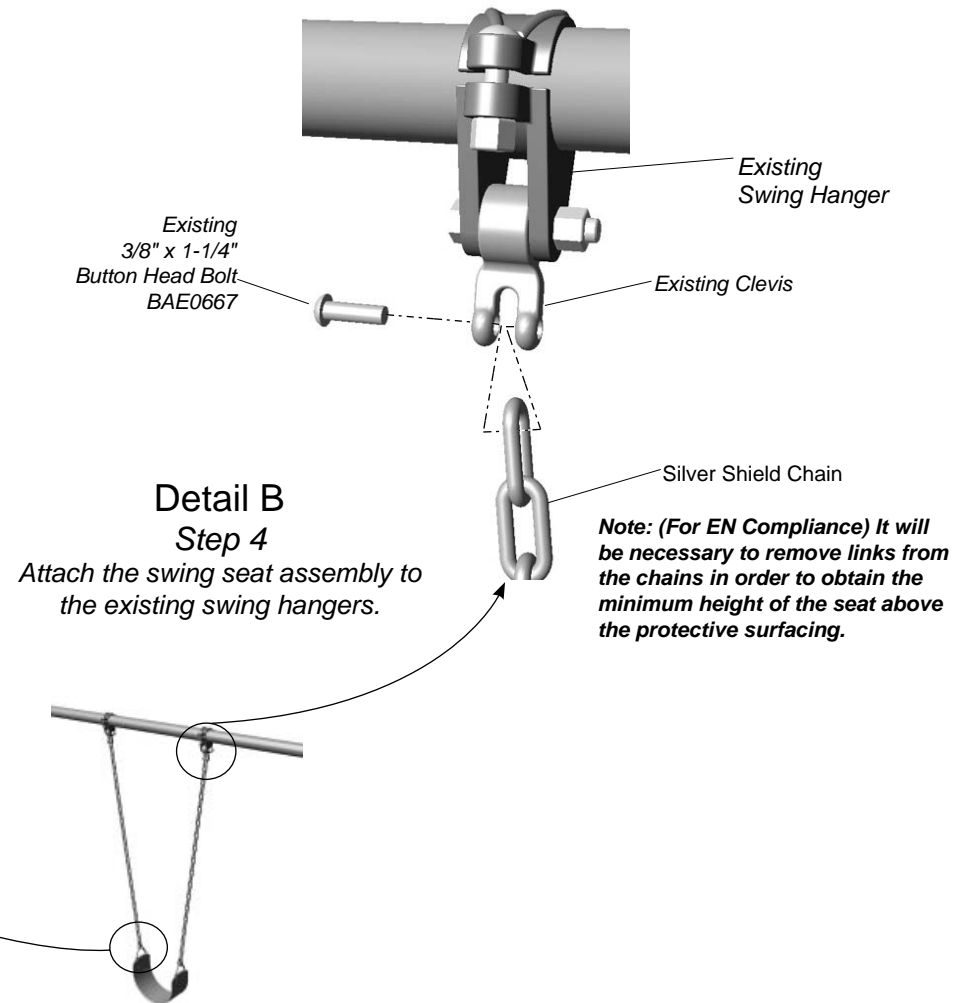
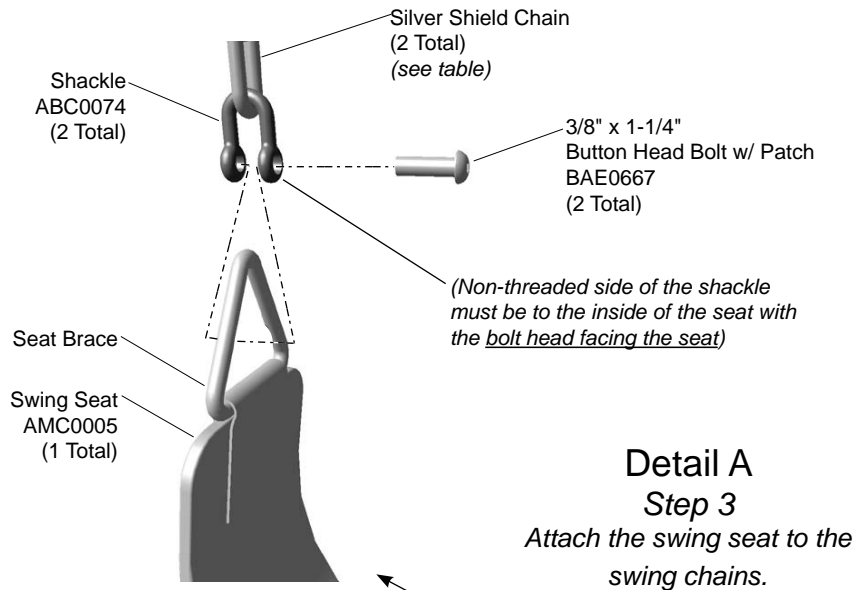
Elevation View  
(EN)

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.



Model Number	Swing 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

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**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 SWING 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 SWING 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 SWING 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



### 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.

## Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain





# 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 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: \_\_\_ / \_\_\_ / \_\_\_





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

Playworld Systems®  
Models XX0265, XX0266, & XX0325  
Infant Swing Seat with Swing 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

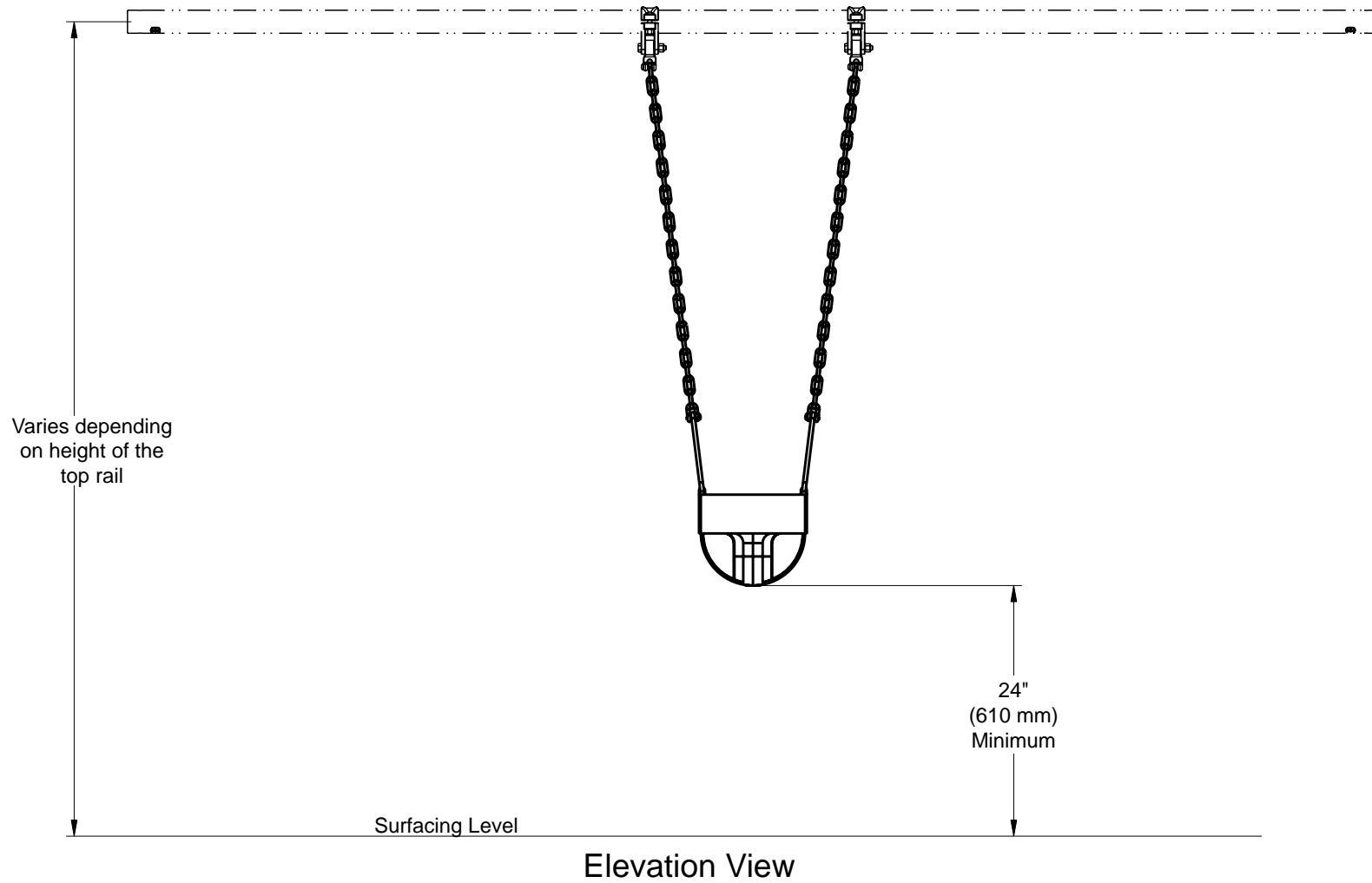
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

### ICON KEY



Fully Tighten  
Hardware

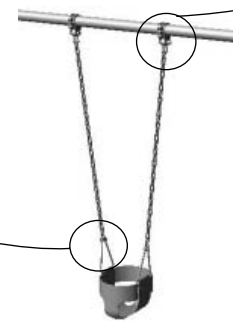
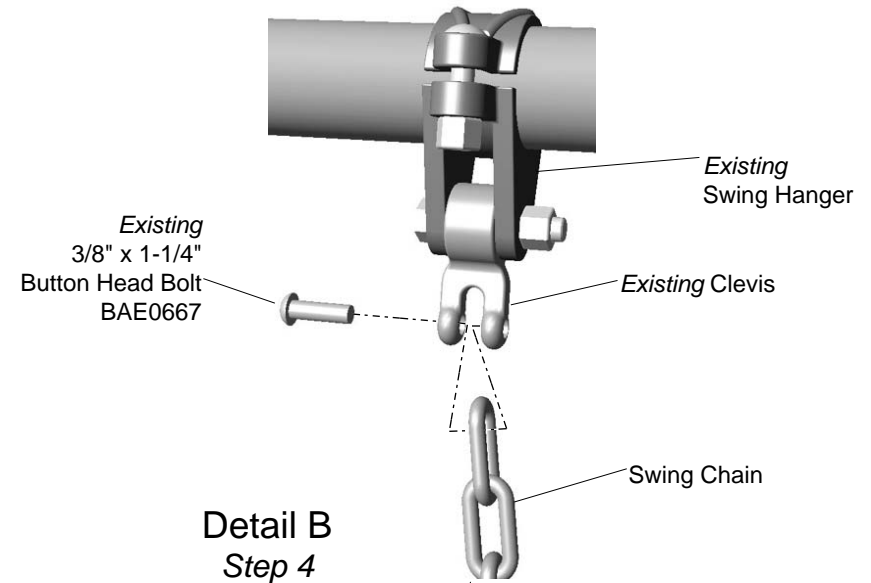
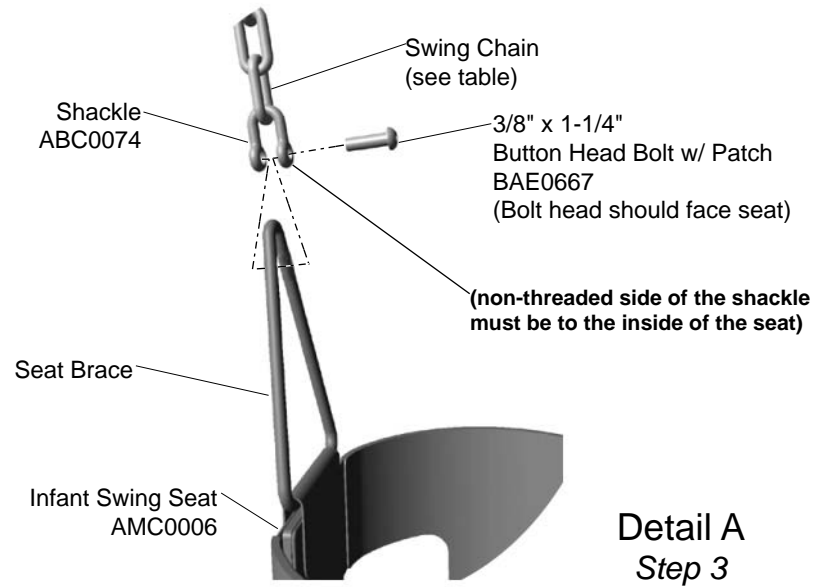
# Installation Instructions



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	Swing 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

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**\_\_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.

## ZZXX0325 - INFANT SWING SEAT WITH SWING 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 Swing	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 SWING 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 Swing	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 SWING 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 Swing	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 Swing Chain



**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](http://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!**

<b>INSPECTION CHECKLIST</b>	<b>Frequency</b>	<b>Inspection Code</b>	<b>Date</b>	<b>Date Repairs Completed</b>
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**

<b>Item in Question</b>	<b>Description of Problem</b>	<b>Corrective Action</b>	<b>Date</b>

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

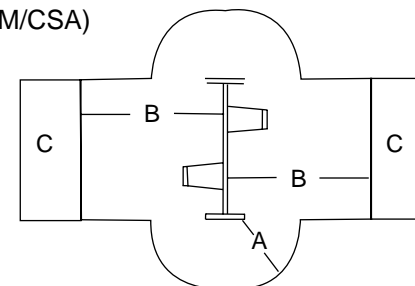
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

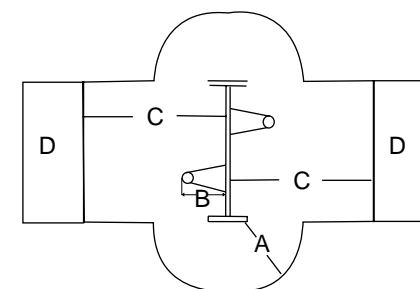
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

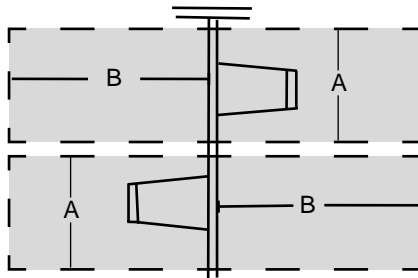
## (EN)

- 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 absorbency. 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

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- 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.

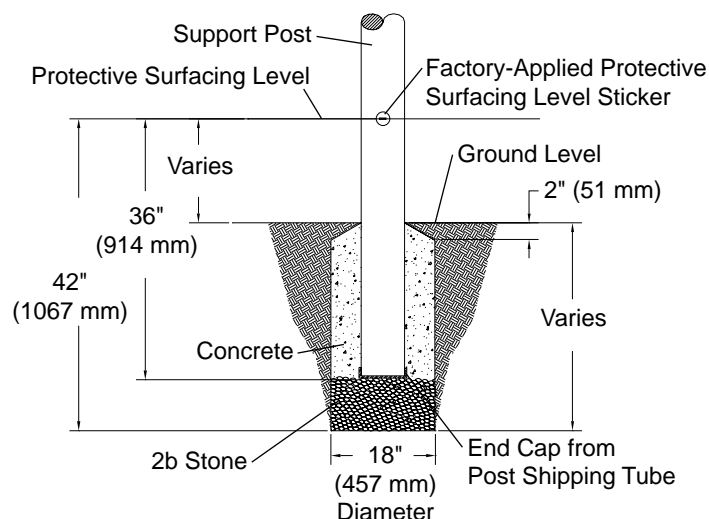
## Maintenance

- 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.

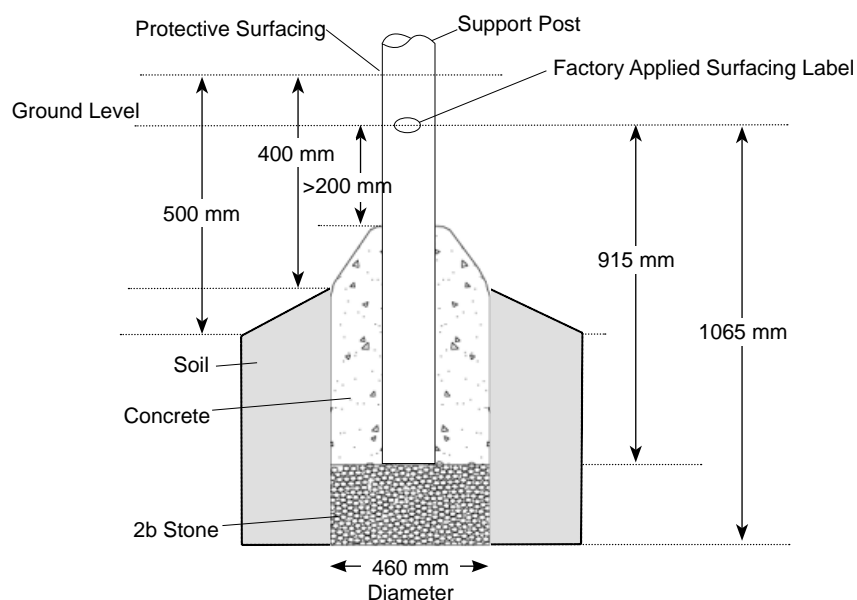
# Installation Instructions



**Support Post Footing Detail (ASTM/CSA)**

## FOOTING 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.



**Footing Detail Support Post (EN)**



Assembly View (representative model)

## Installation Instructions




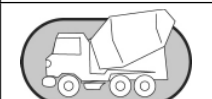



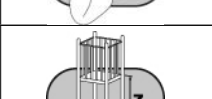
Playworld Systems® Model XX0287  
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing  
8 ft. (2438 mm) Top Rail

### 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.*

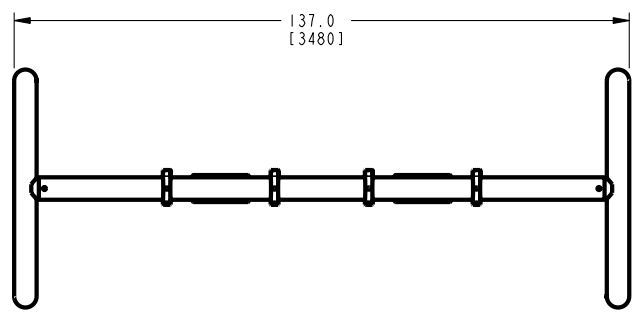
### ICON KEY

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

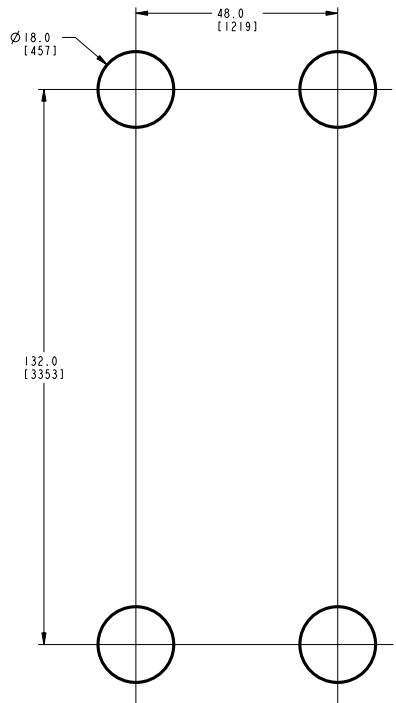
# Installation Instructions

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

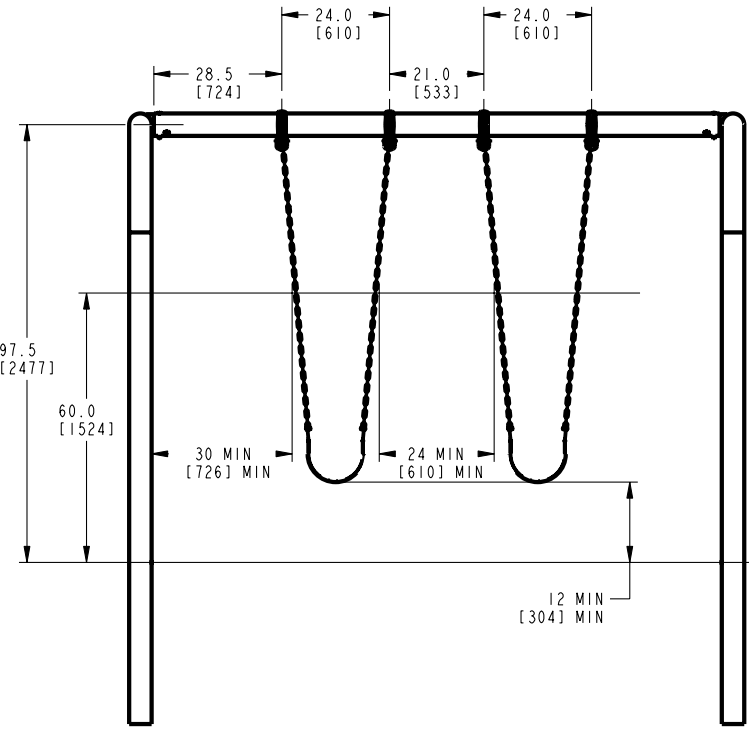
Top View



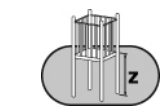
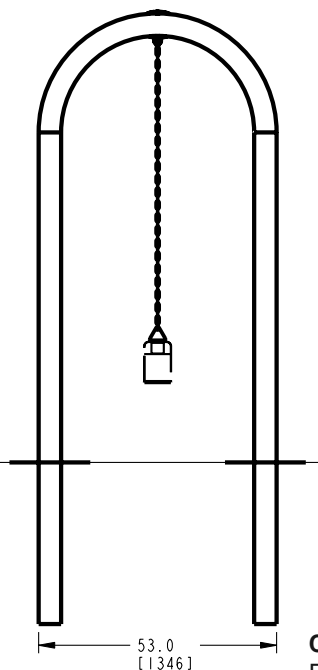
**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

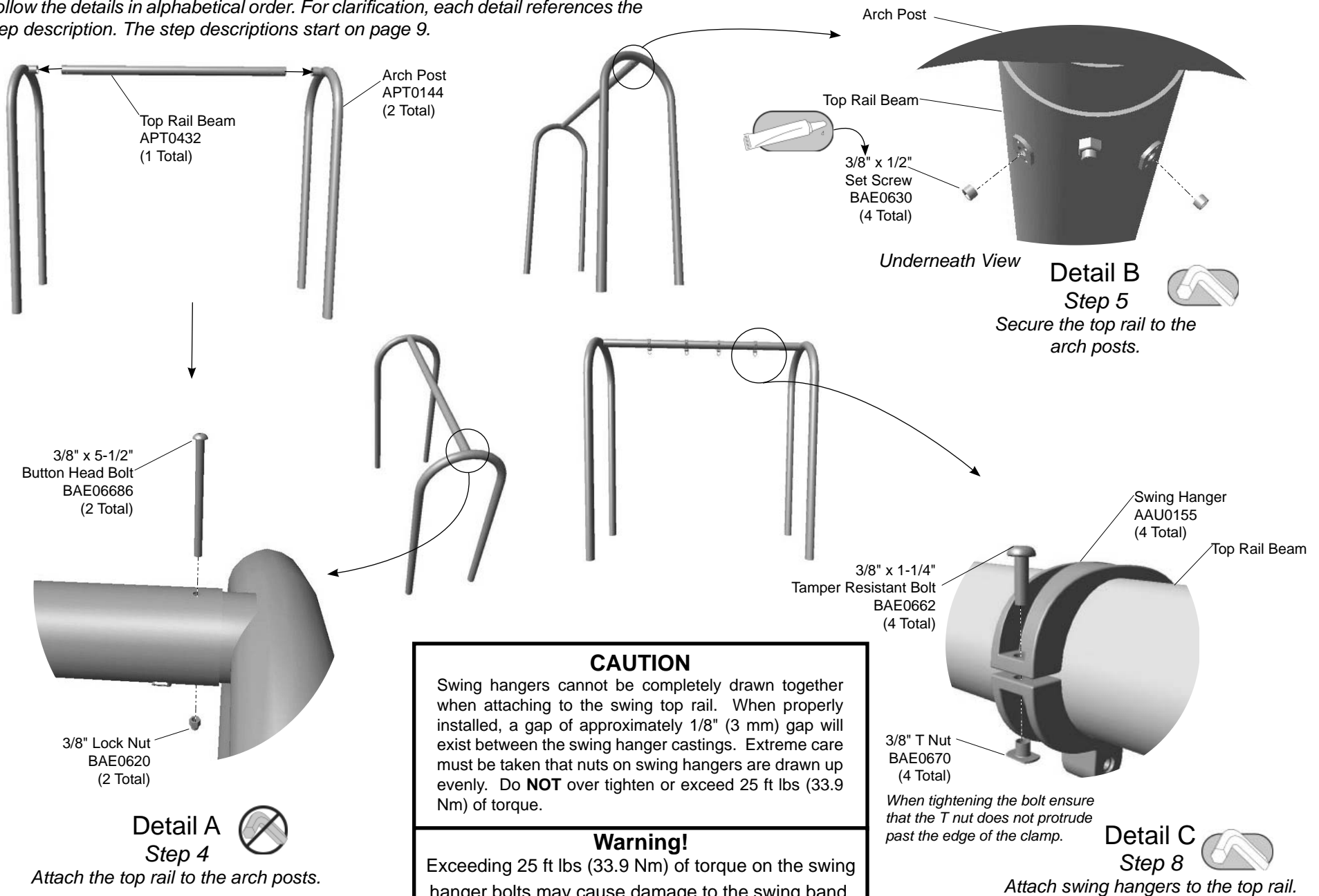


**Critical Fall Height**  
EN: belt seat - 1390 mm (mounted as shown)  
tot seat - 1545 mm (with seat at 610 above surfacing)



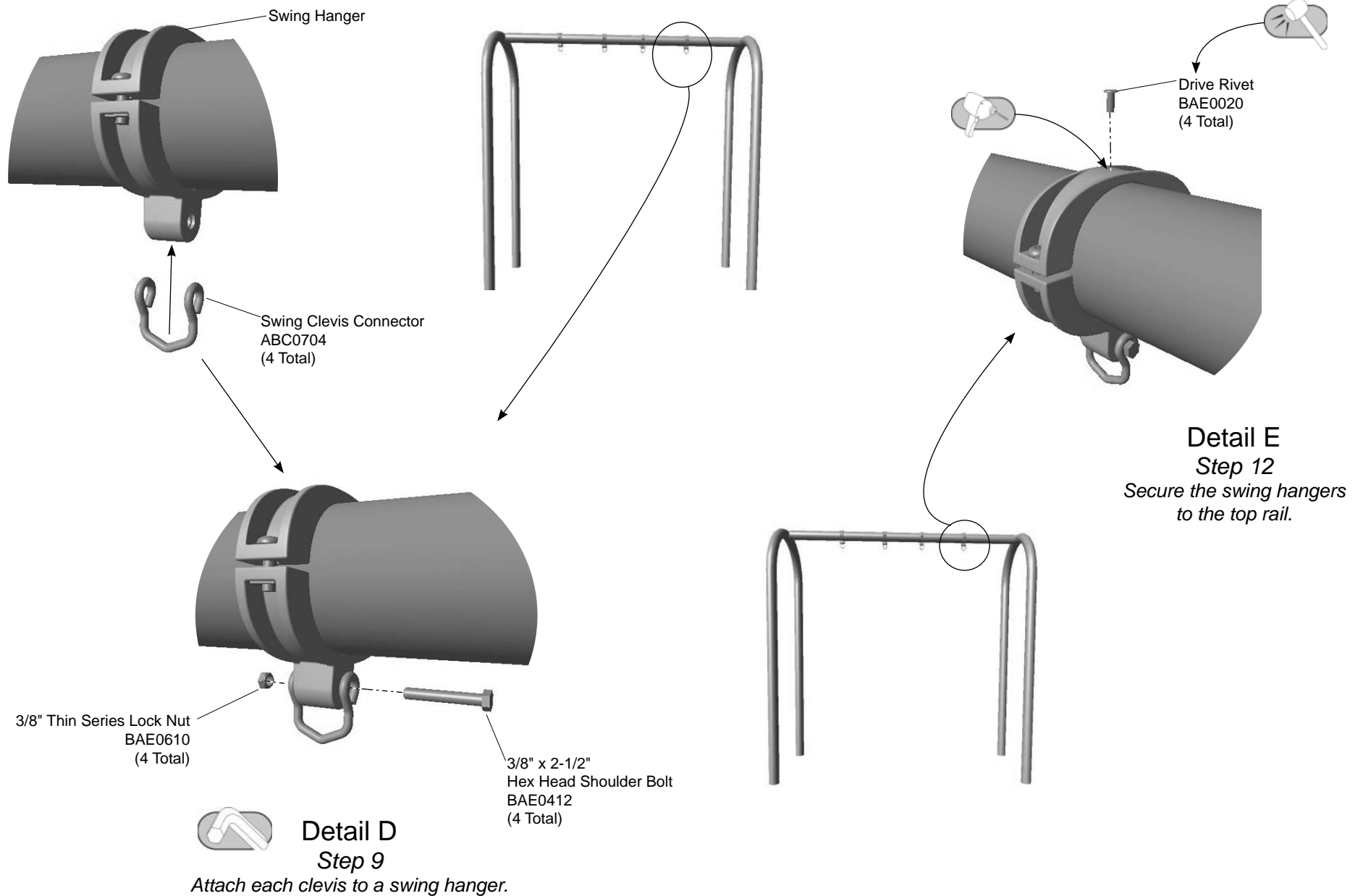
# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.





# Installation Instructions



# Installation Instructions

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**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

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**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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.

# 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

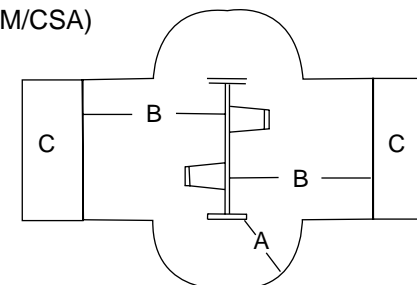
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

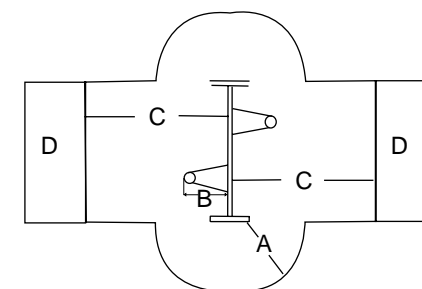
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

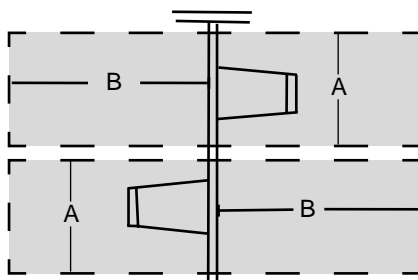
## (EN)

- 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 absorbency. 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

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- 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.

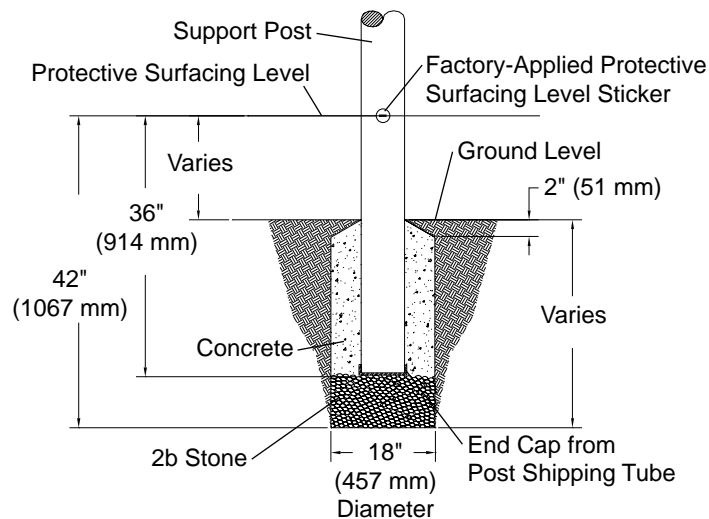
## Maintenance

- 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.

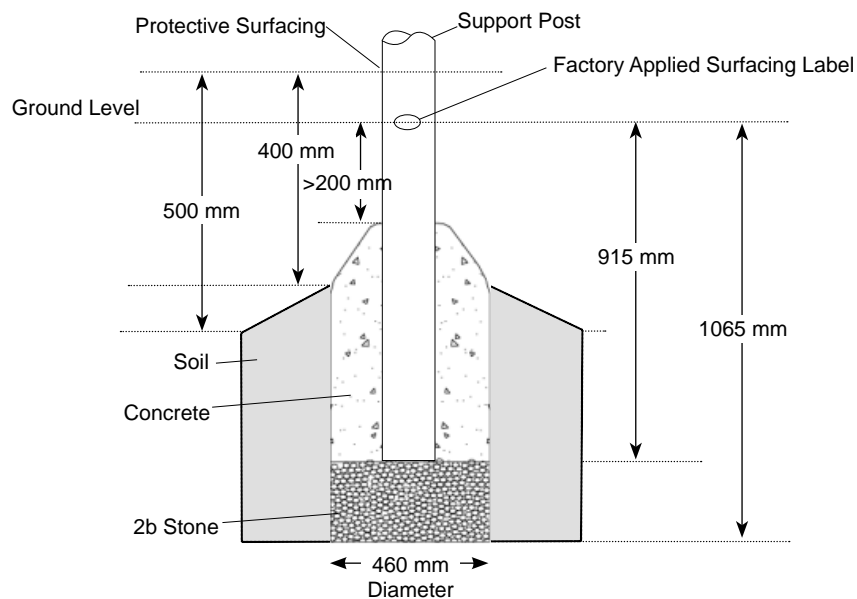
## Supervision Guidelines

- 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.

## Page 4 of 14



## 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.





Assembly View

## Installation Instructions


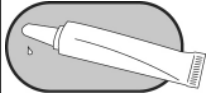

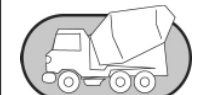



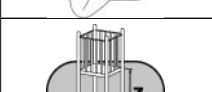
Playworld Systems® Model XX0370  
5 in. (127 mm) O.D. Aluminum Arch Swing  
2-Unit Add-A-Bay

### 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.*

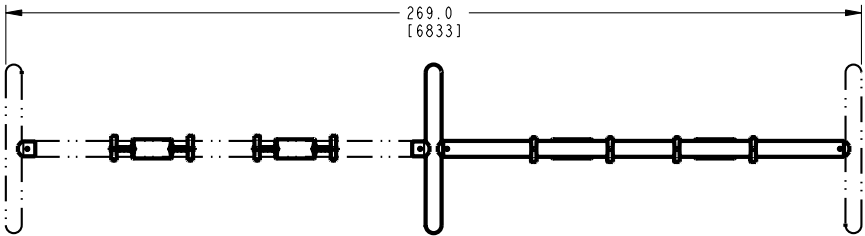
### ICON KEY

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

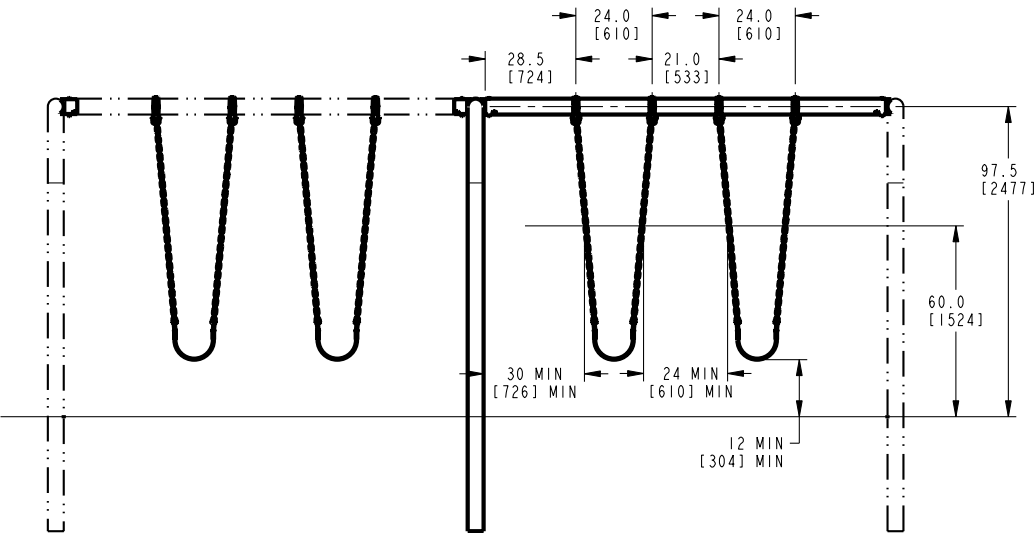
# Installation Instructions

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

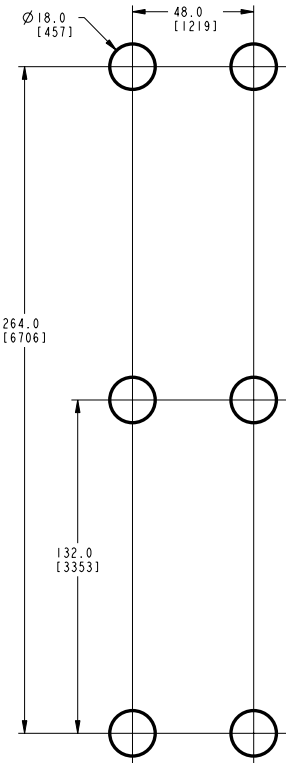
Top View



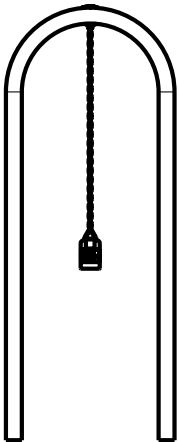
**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

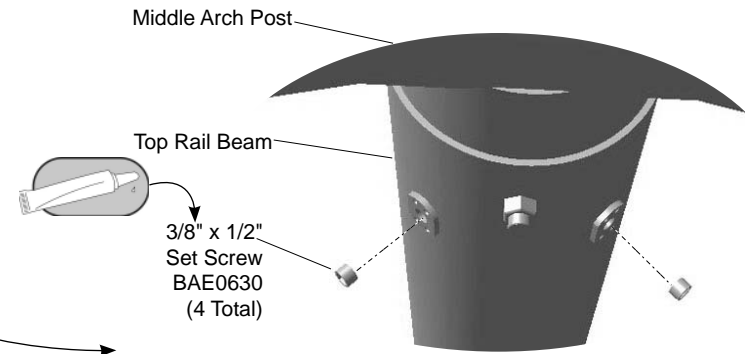
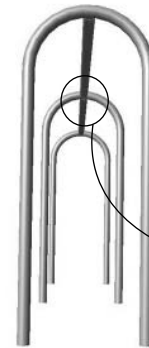
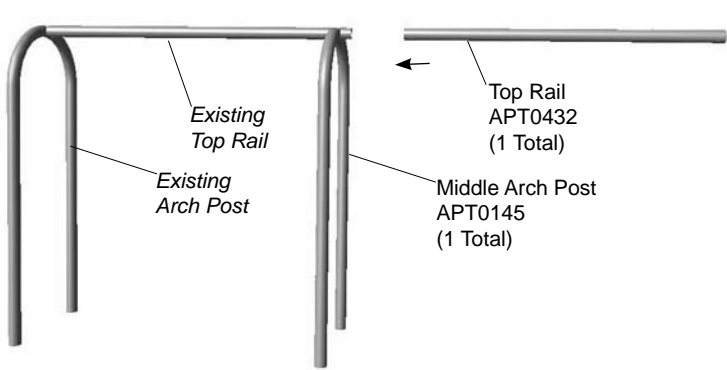


Footing Diagram



# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

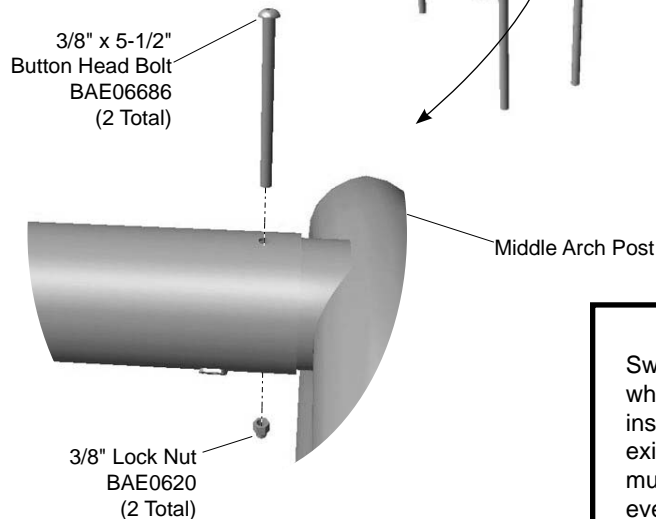


Underneath View

**Detail B**

**Step 7**

Secure the top rails to the middle arch post.



**Detail A**

**Step 5**

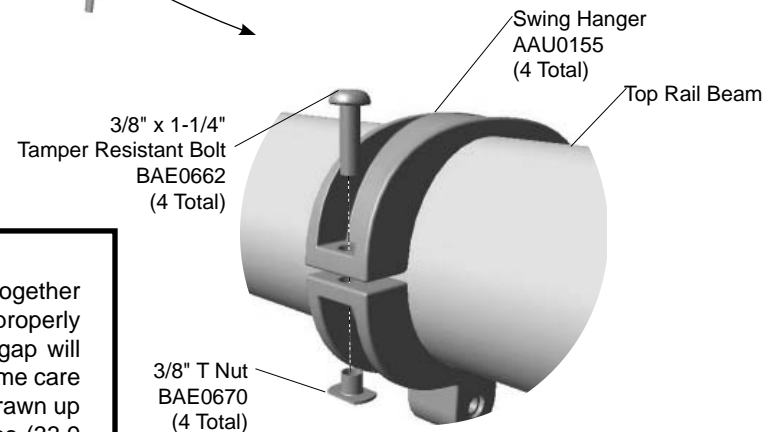
Attach both top rails (new and existing) to the middle arch support.

## 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.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

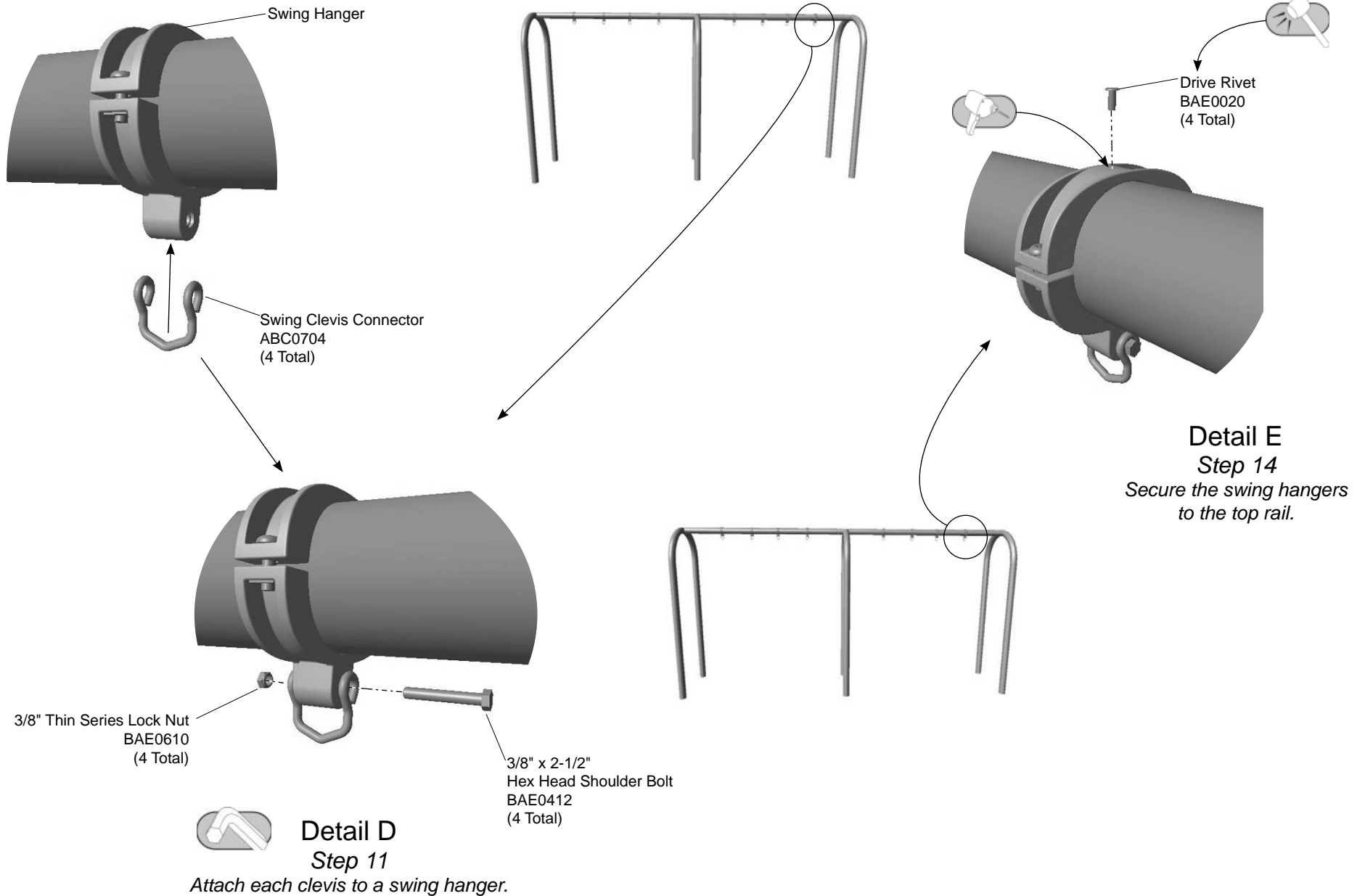
**Detail C**

**Step 10**

Attach swing hangers to the top rail.



# 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:** 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 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 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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.



# 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			

<b>Inspection Codes</b>
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: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



# HIGH POINT PARK

MADISON, WI

OPTION #1

**LR**  
**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



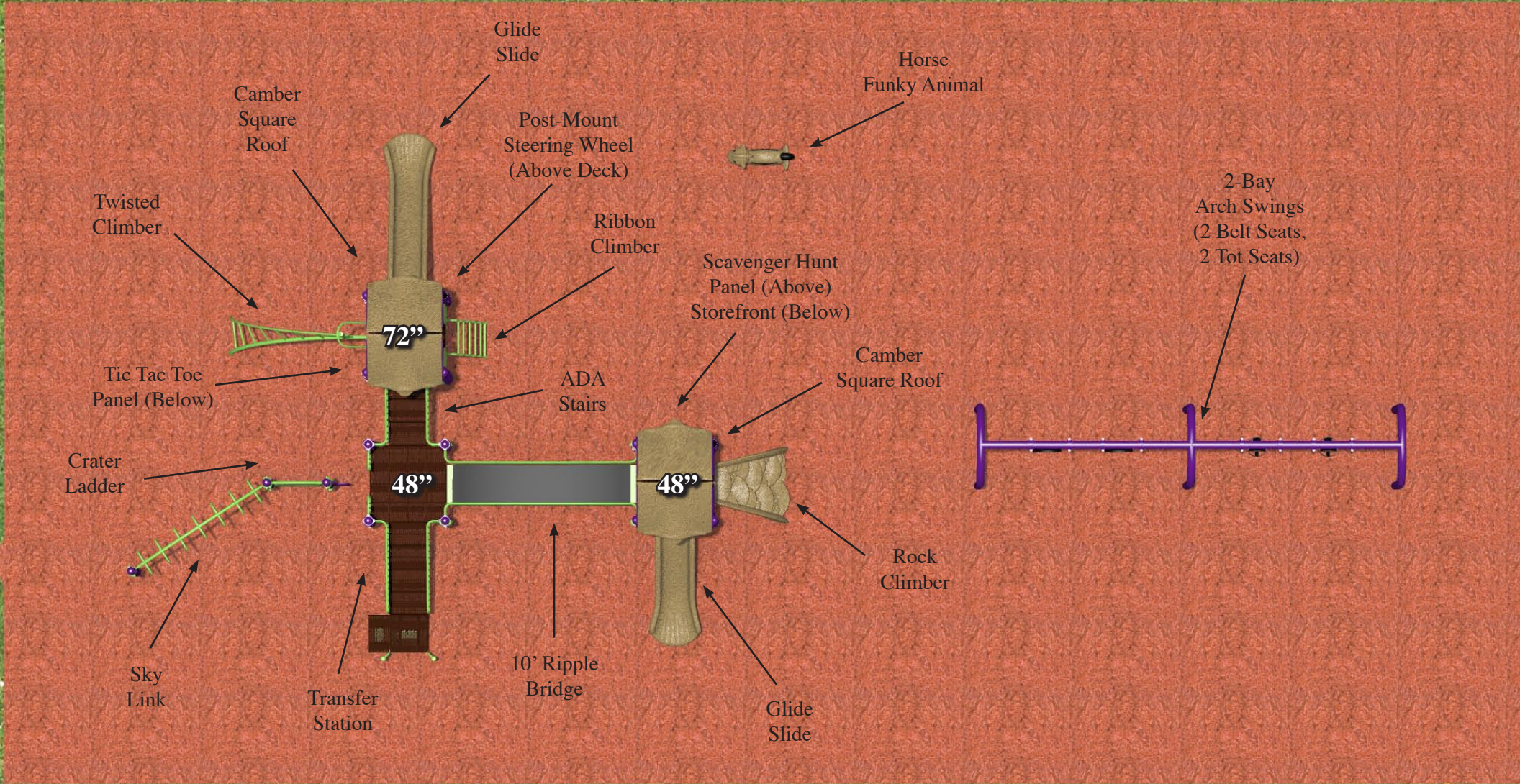
VIEW B



# High Point 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: PW111914

Use Zone:

# of Users: 50

# of Active Play Events: 18

Age: 5 to 12

Colors Shown:



Plum



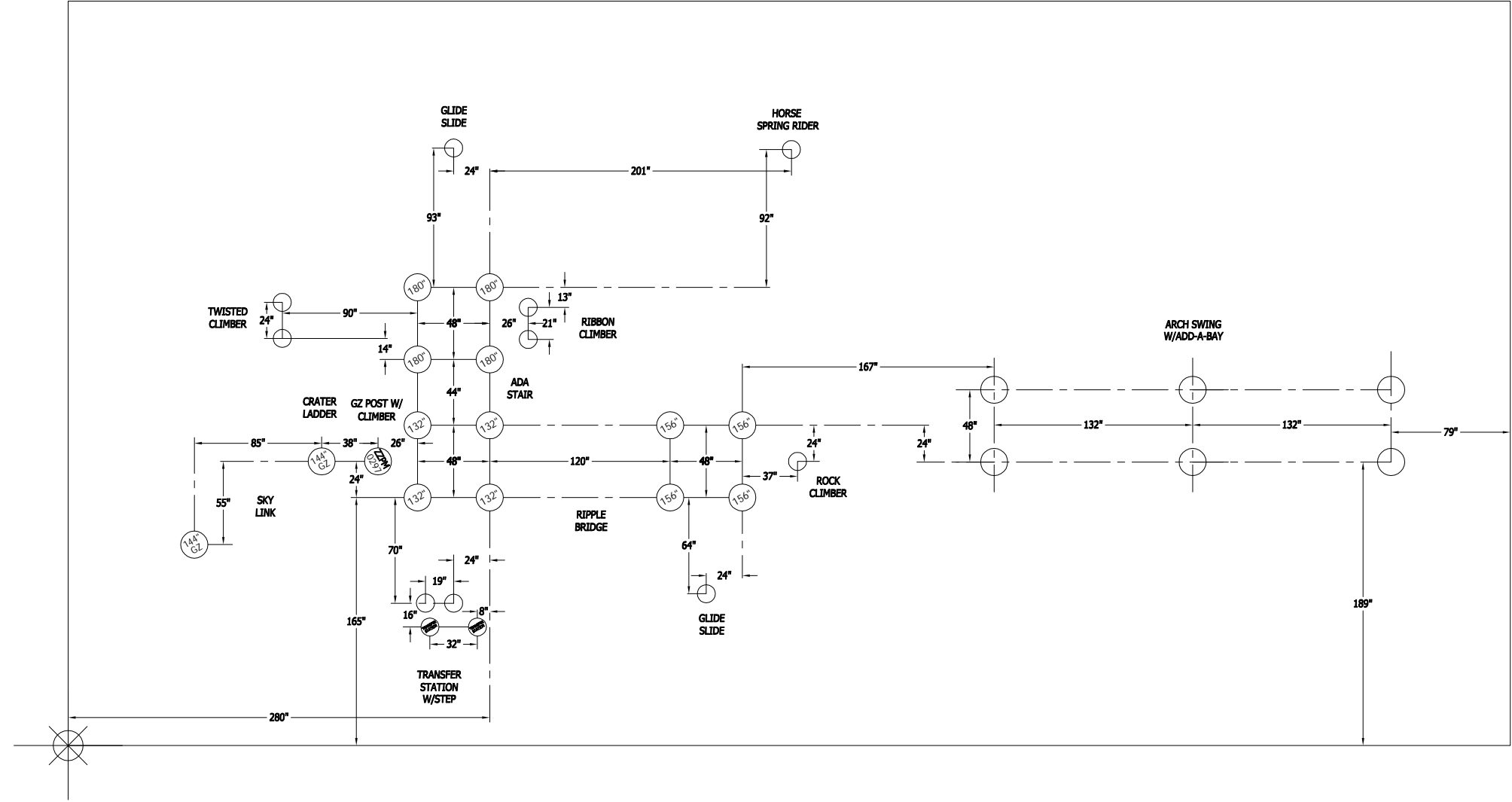
Brownstone



Lime







\*Playground Supervision Required

PROJECT NO: HP1-2.LEE	REV: -	DATE: 09-JAN-15
SYSTEM: PLAYMAKERS		SCALE: 1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

LEE RECREATION  
809 Bluebird Pass  
Cambridge, WI 53523

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FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3659mm) INDICATES POST LENGTH)

# HIGH POINT 1-2

FOOTINGS ONLY





## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

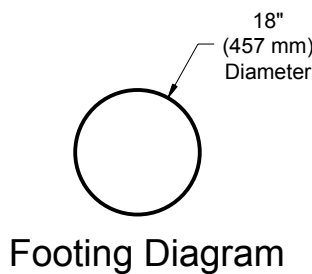
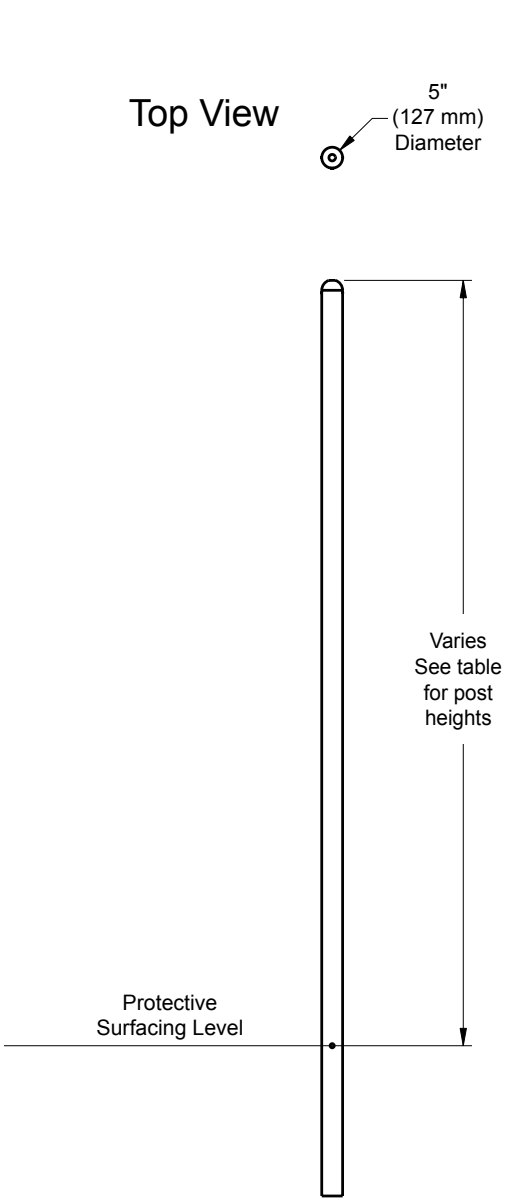


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## Installation Instructions

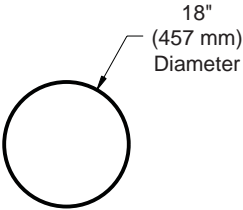
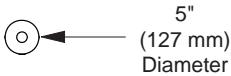
Playmakers® Models PM0008GZ,  
PM0036GZ, PM0056GZ, & PM0066GZ  
GroundZero® Steel Support Post w/ Cap  
108 in. (2743 mm), 144 in. (3658 mm),  
168 in. (4267 mm), & 180 in. (4623 mm)

## Installation Preparation

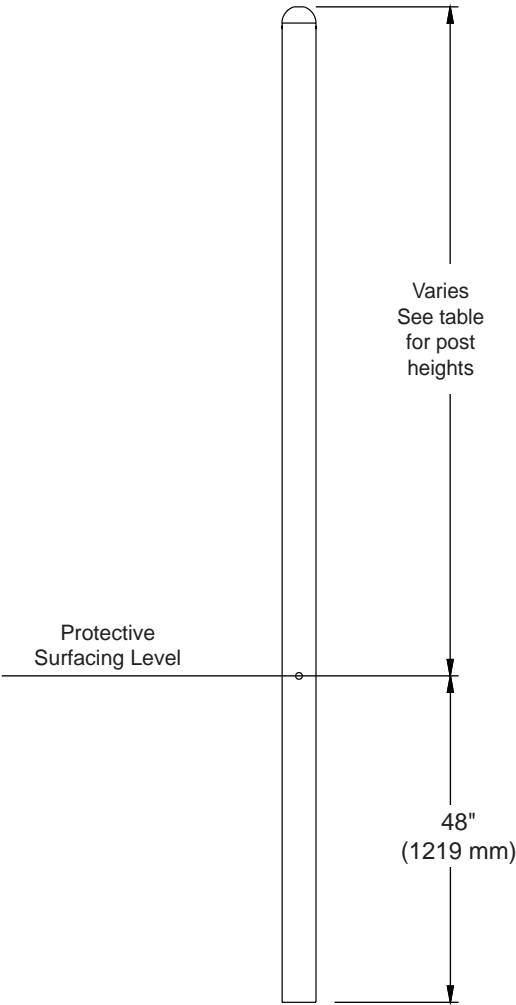
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.18 cubic yard (0,14 cubic meters)

# Installation Instructions

Top View



Footing Diagram



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.

## 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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Assembly View *(representative model)*

## Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,  
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,  
PM0136A, PM0138A, PM0267A, PM0269A

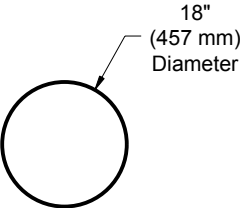
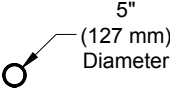
Aluminum Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

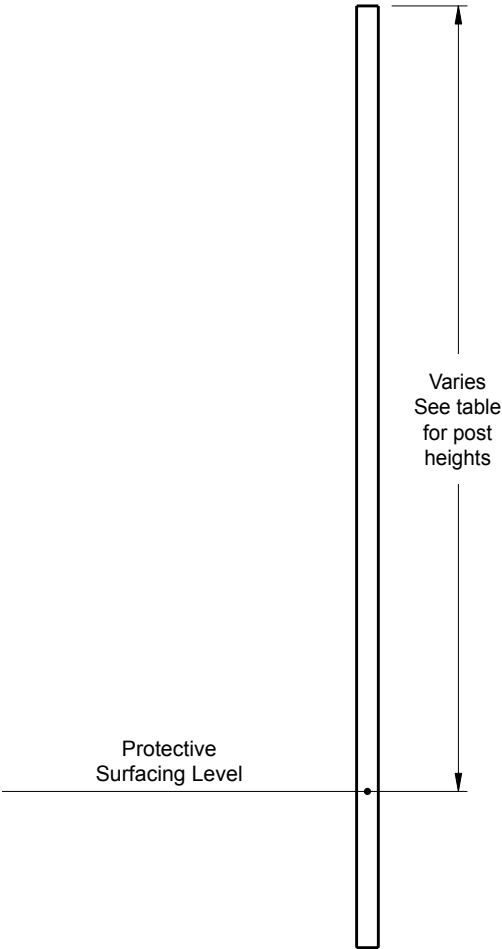
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 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

## PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



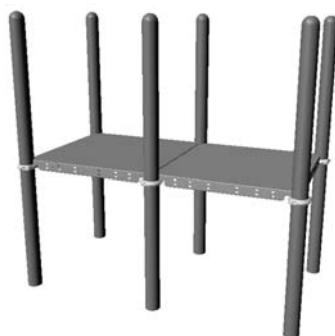
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## Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616  
Square Deck



ZZPM0629  
Long Deck

Assembly View

### Installation Preparation

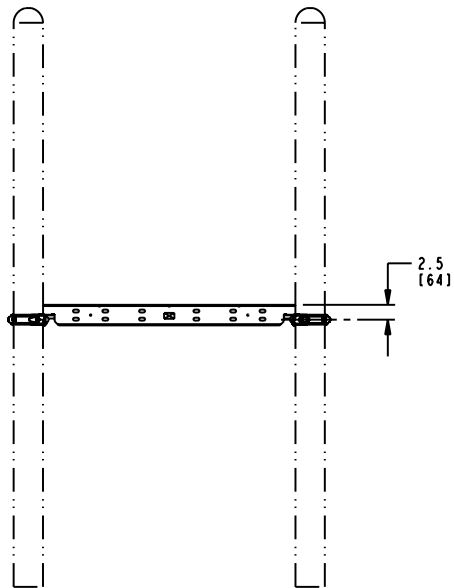
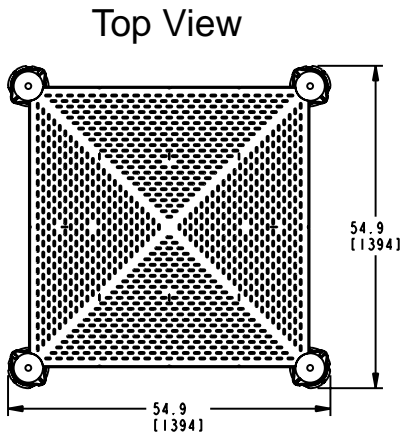
Recommended Crew (PM0616):..... Two (2) adults  
Recommended Crew (PM0629):..... Four (4) adults  
Installation Time (PM0616): ..... 1 man-hour  
Installation Time (PM0629): ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

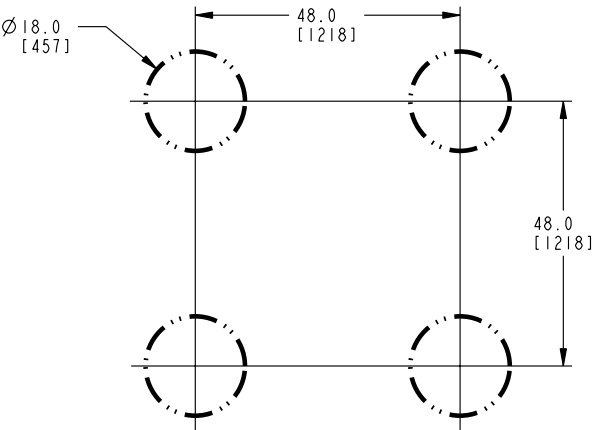
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

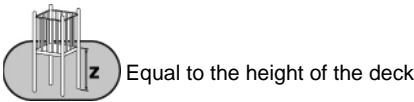
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0616

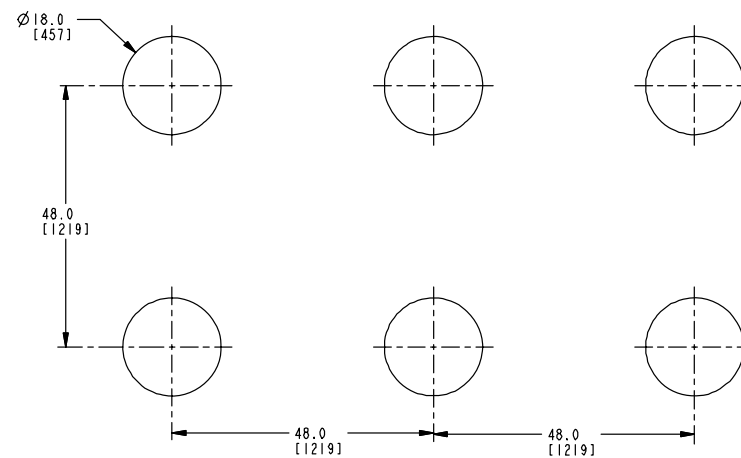
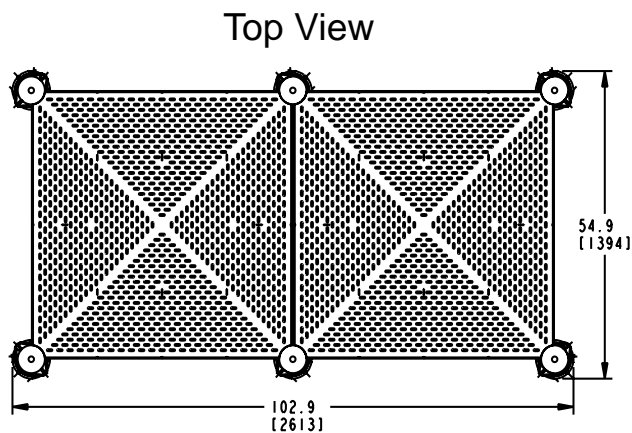


Footing Diagram

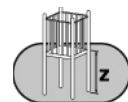
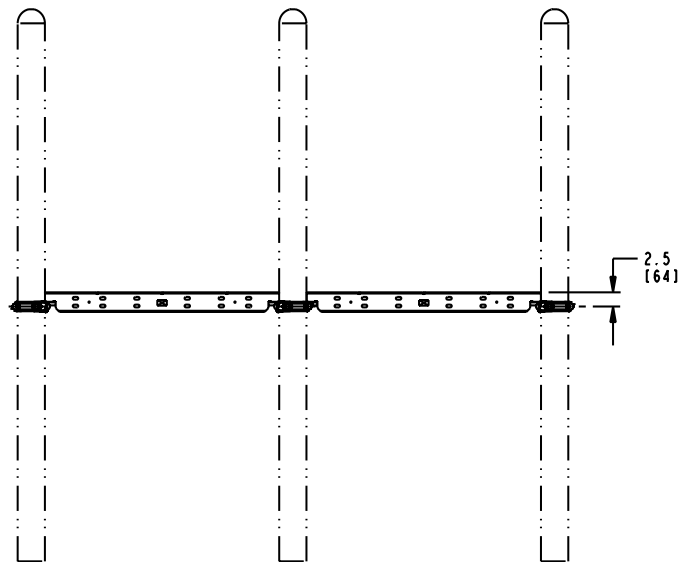


# Installation Instructions

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



Footing Diagram



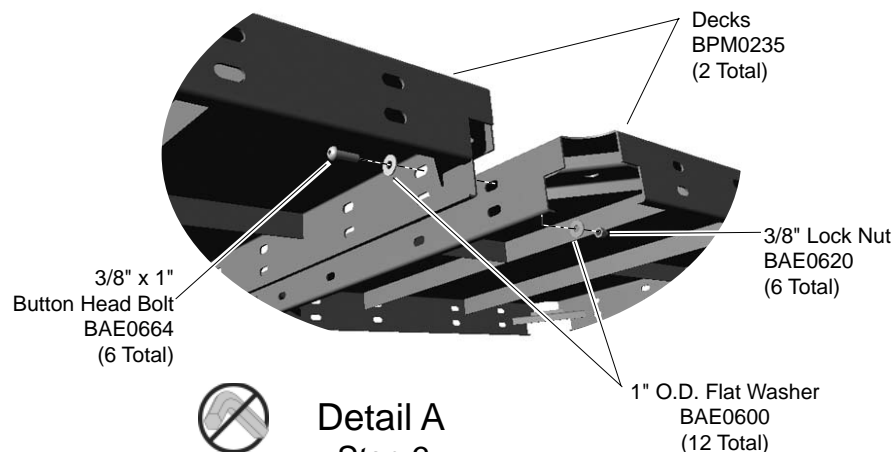
Equal to the height of the deck

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.

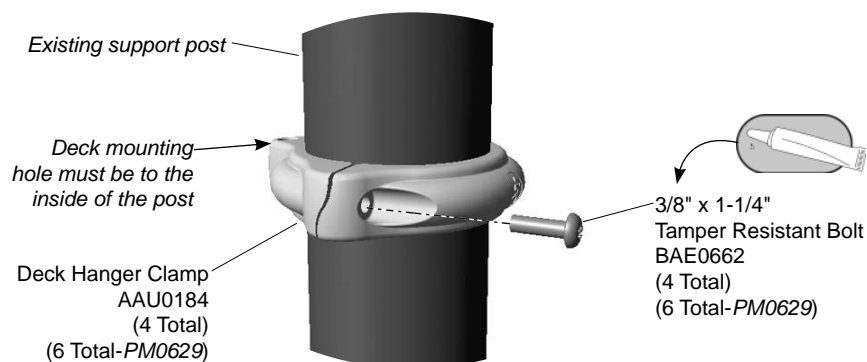


## Detail A

### Step 3

(Model PM0629 Only)

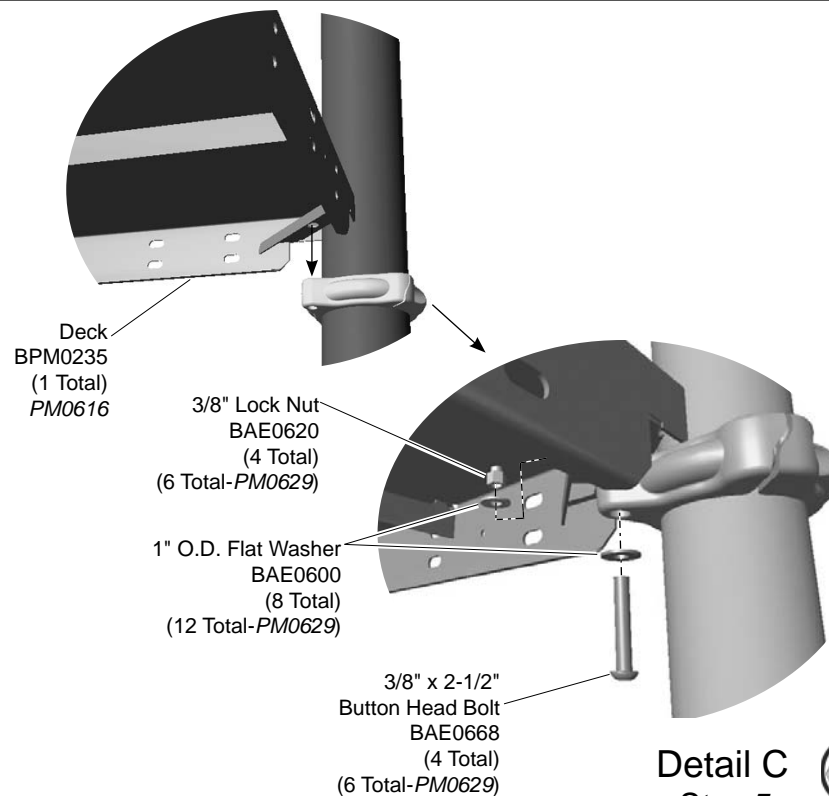
Attach the two decks together.



## Detail B

### Step 4

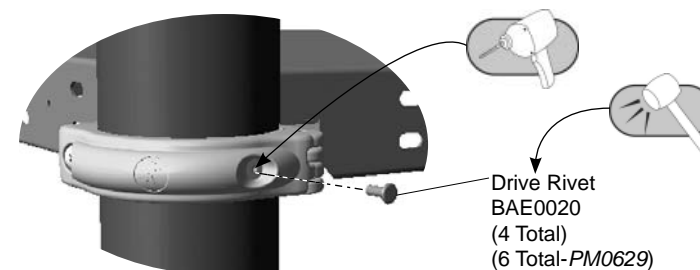
Attach the deck clamps to the support posts.



## Detail C

### Step 5

Attach the decks to the clamps.



## 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
BPM0235	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
BPM0235	PLATFORM - PM SQUARE PERF	2



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Assembly View (representative model)

## Installation Instructions

Playmakers® Models PM2027 and PM2027S

48 in. (1219 mm) Transfer Station

In-Ground and Surface Mount

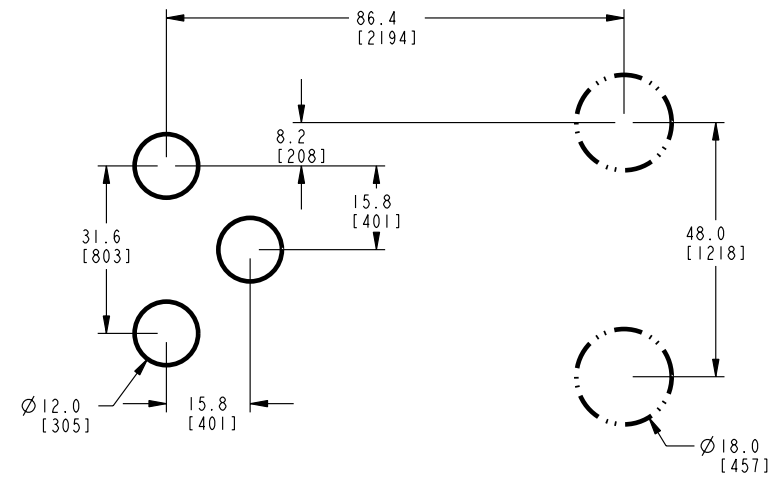
### Installation Preparation

Recommended Crew: ..... Two (2) adults  
 Installation Time (In-Ground): ..... 3 man-hours  
 Installation Time (Surface Mount): ..... 1.5 man-hours  
 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

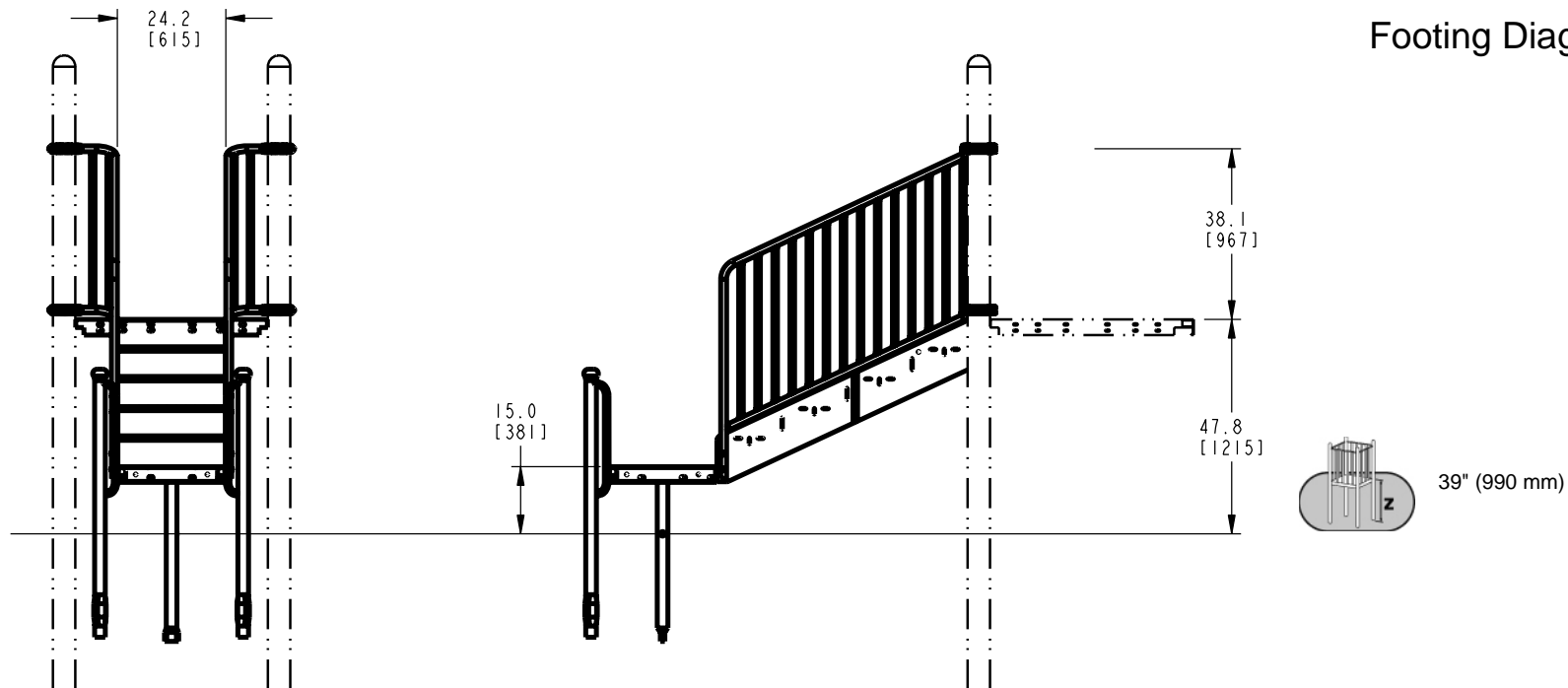
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

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



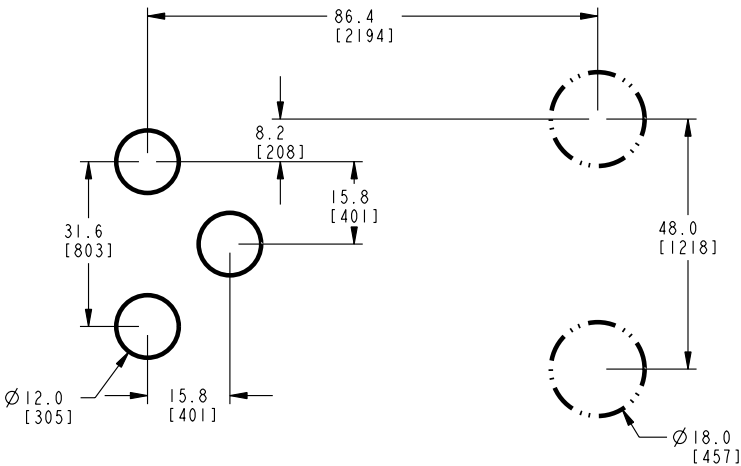
Footing Diagram



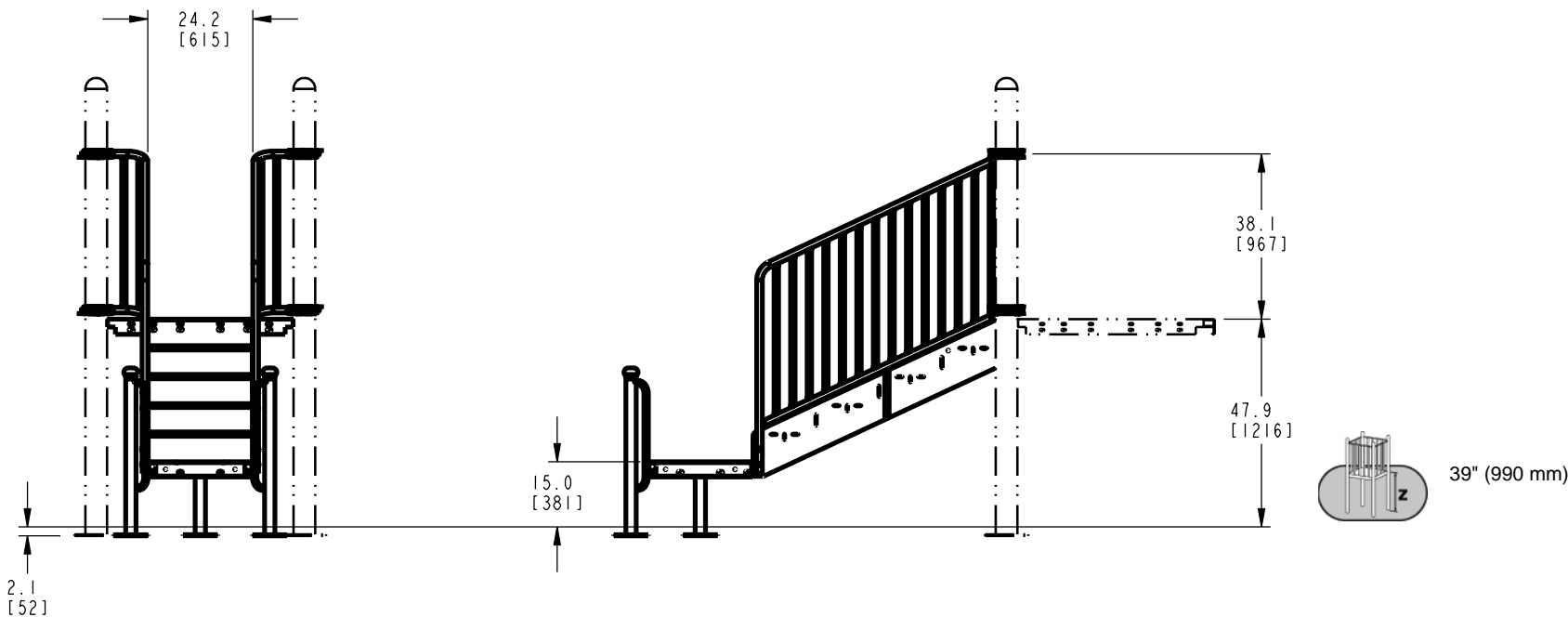
Elevation Views  
PM2027

# Installation Instructions

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



Footing Diagram

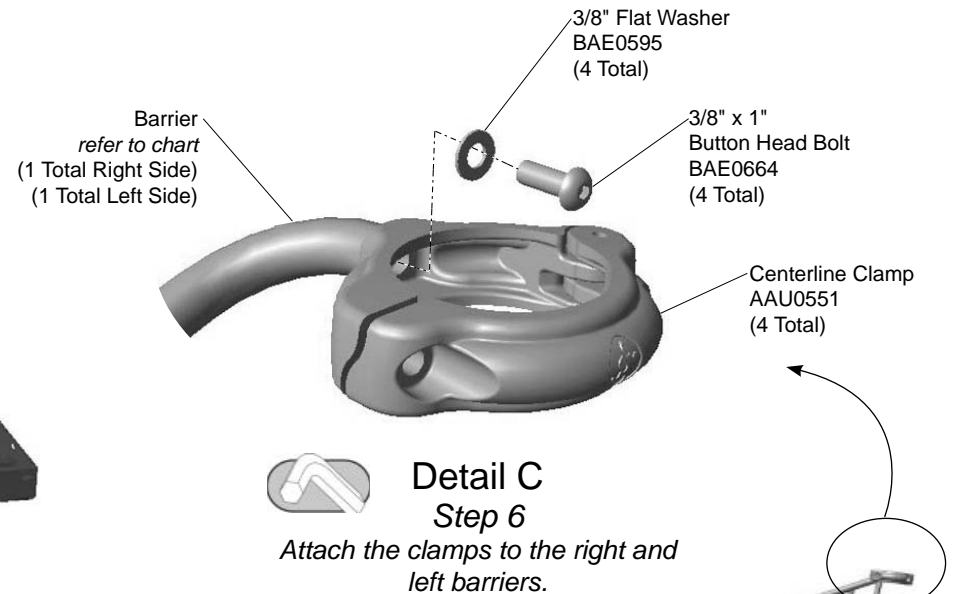
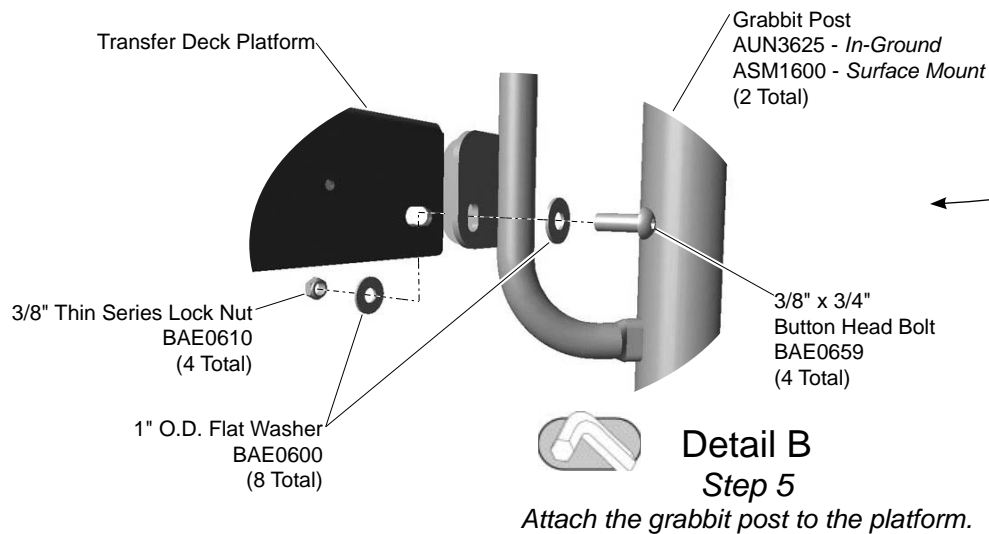
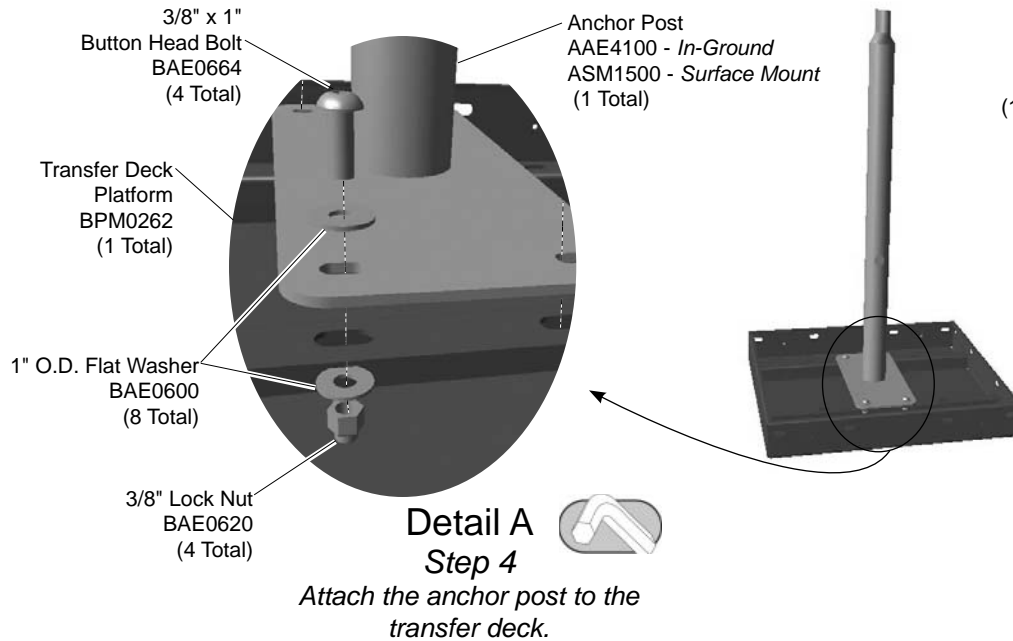


Elevation Views  
PM2027S



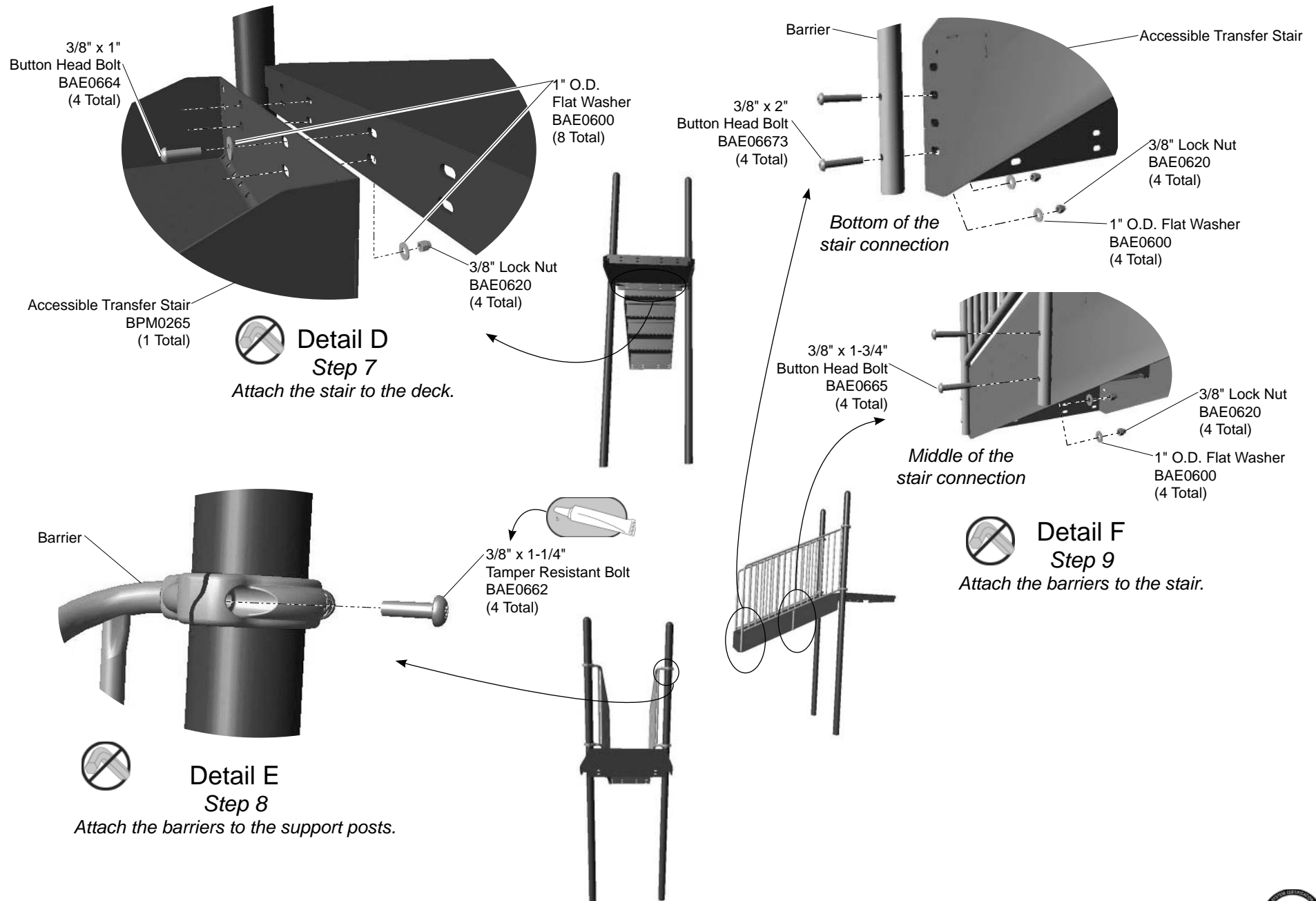
# Installation Instructions

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

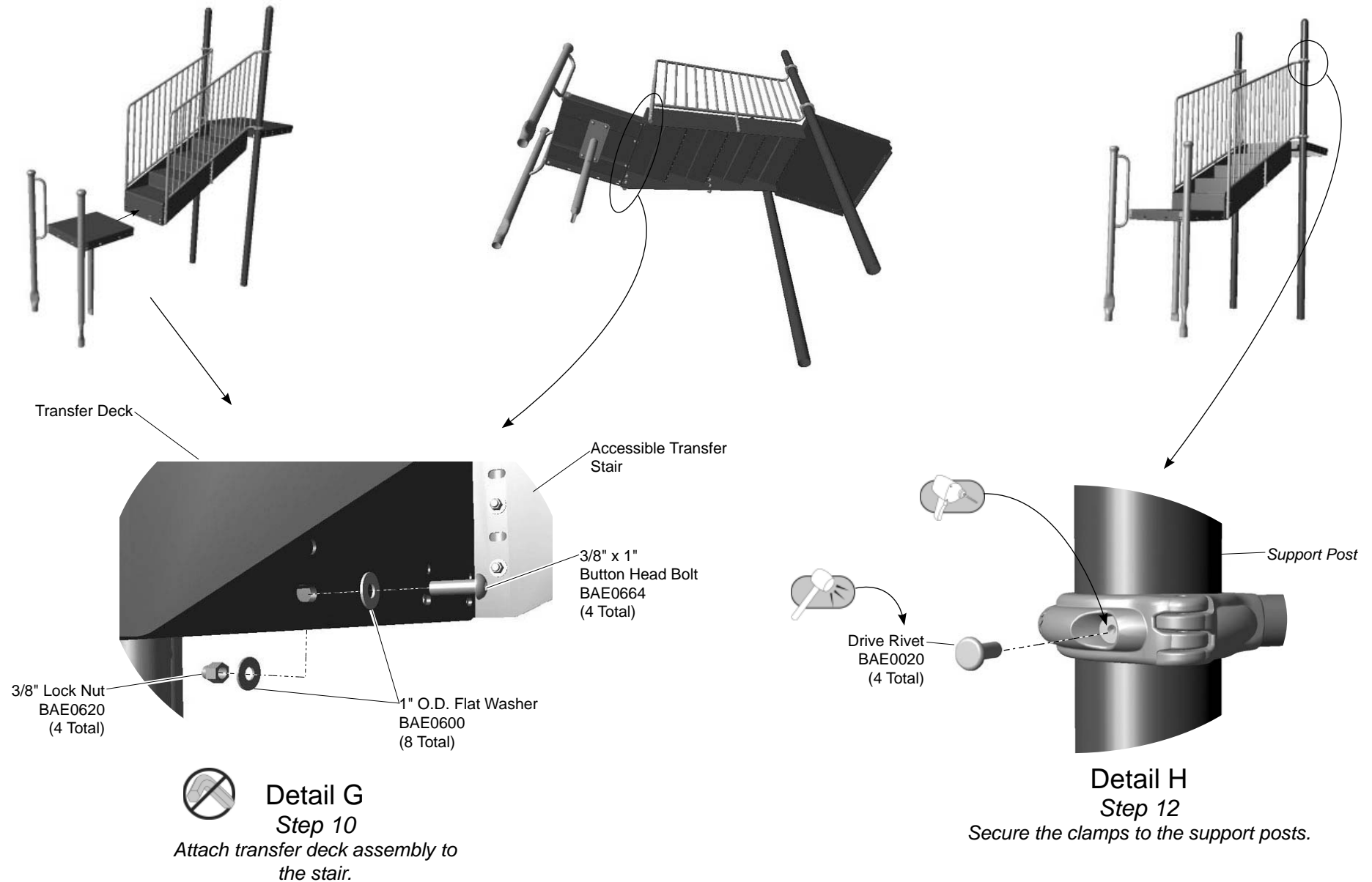


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

# 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 *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

**Attach the anchor post to the transfer deck.**

**Step 4:** Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post 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**. 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 barriers.**

**Step 6:** Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and 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**. 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 barriers to the support posts.**

**Step 8:** Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

**Attach barriers to the stair.**

The barriers 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 barriers should be mounted at the same height.

**Step 9:** Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier 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 **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

**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.

# Installation Instructions

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**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.

## ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
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	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

## ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
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	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	1



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Assembly View

## Installation Instructions




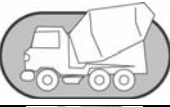



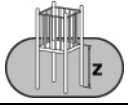
### Universal Model UN2019

### Platform Approach Step

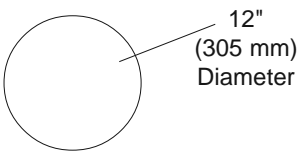
#### Installation Preparation

Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1 man-hour  
 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

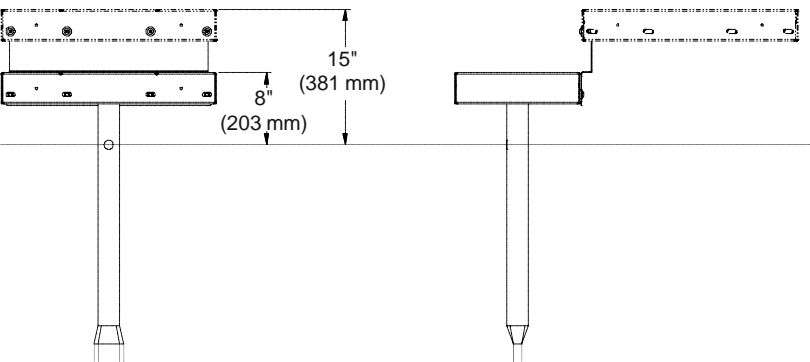
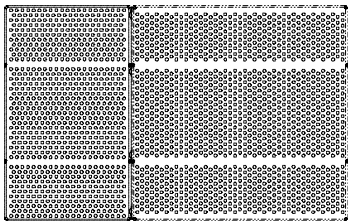
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

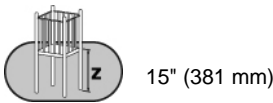


Footing Diagram

Top View

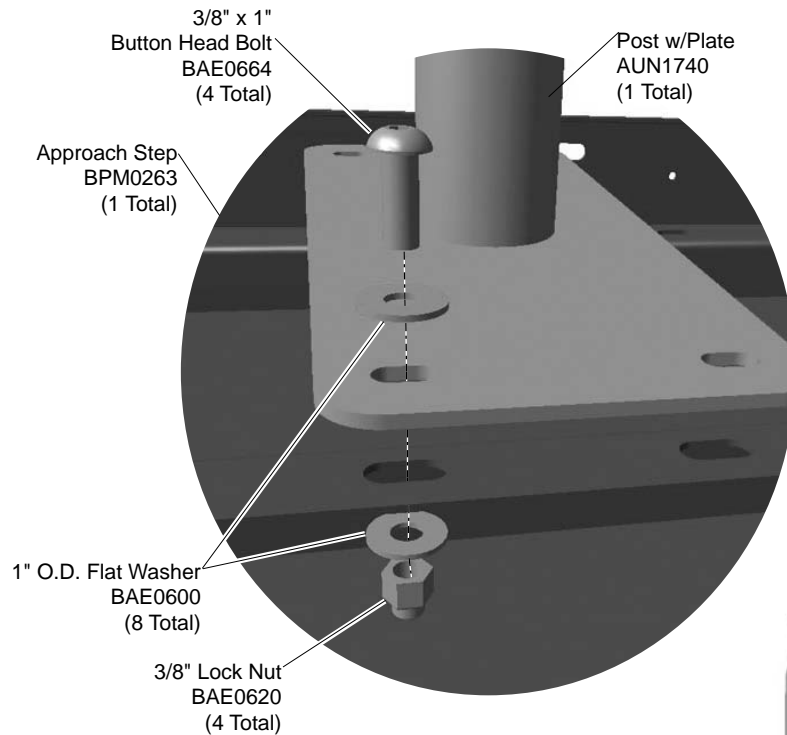


Elevation Views



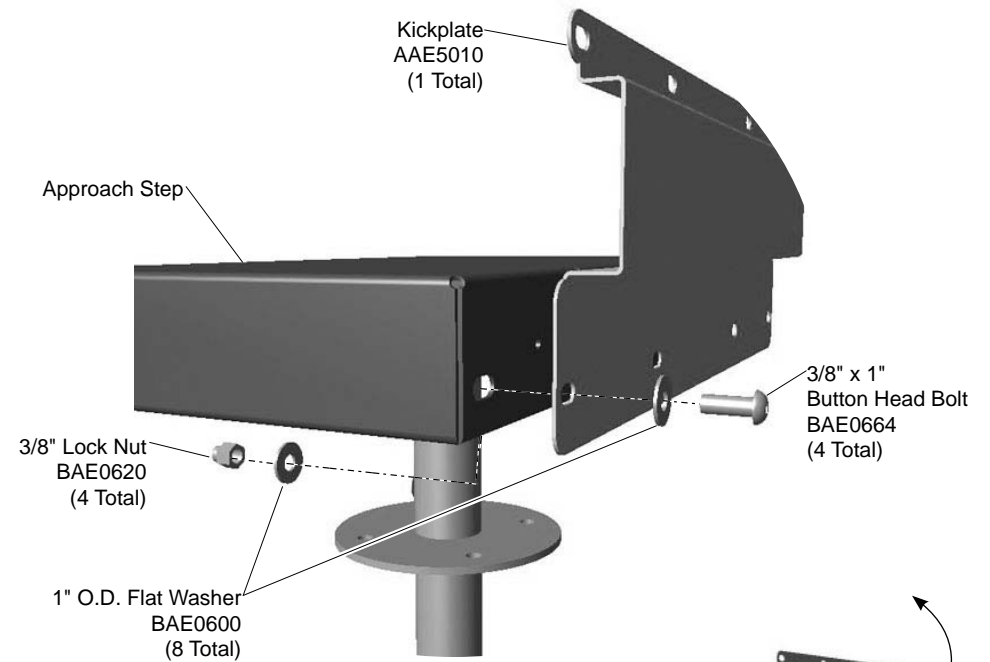
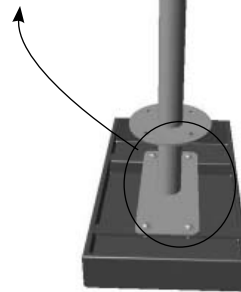
# Installation Instructions

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



## Detail A Step 4

Attach the anchor post to the approach step.

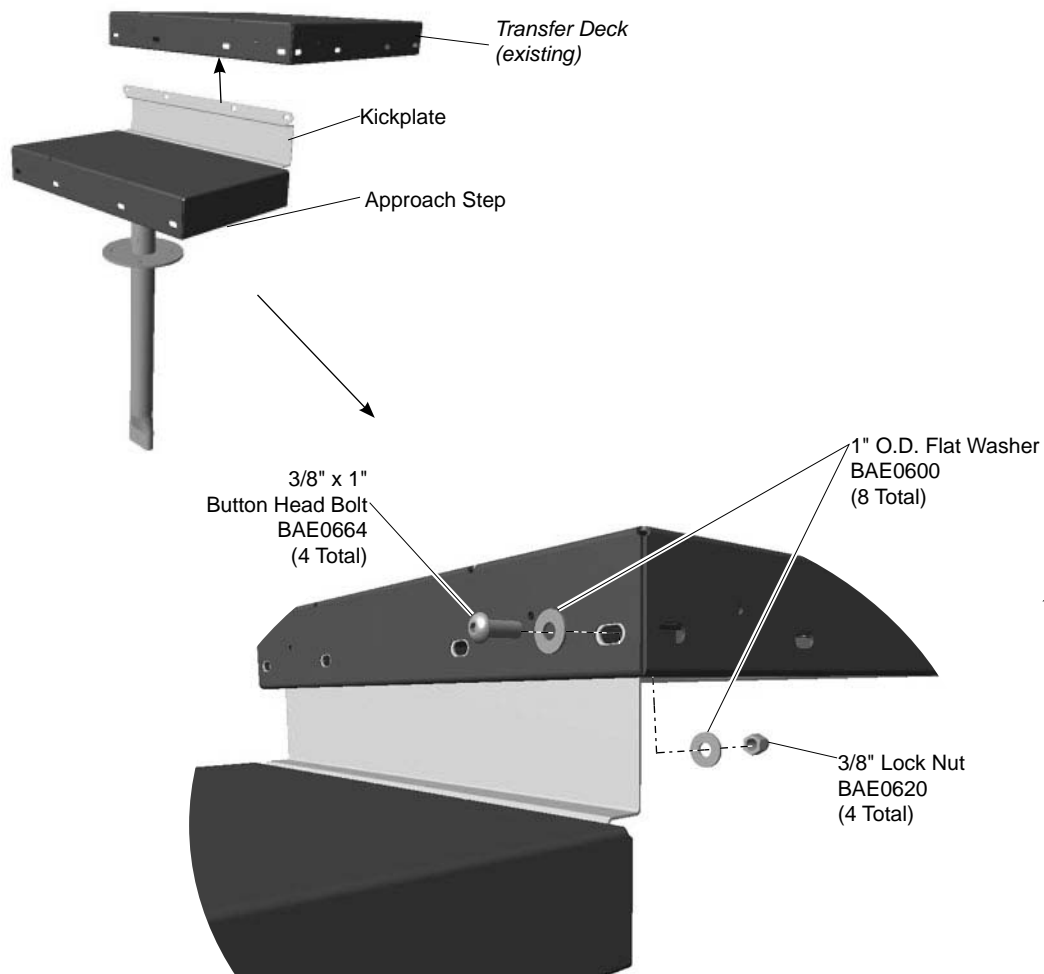


## Detail B Step 5

Attach the kickplate to the  
approach step.



# Installation Instructions



## Detail C Step 6

Attach the kickplate to the transfer deck.



## Step 7



# 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**. 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**. 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**. 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
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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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 Instructions

### Playmakers®

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

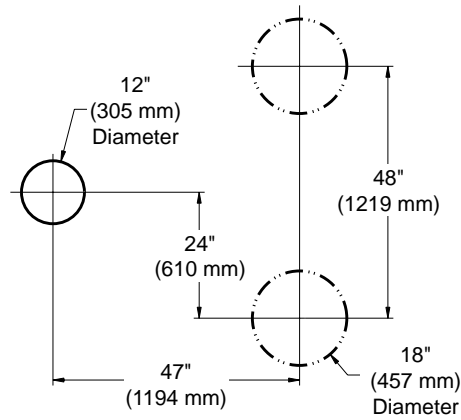
### Installation Preparation

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

### ICON KEY

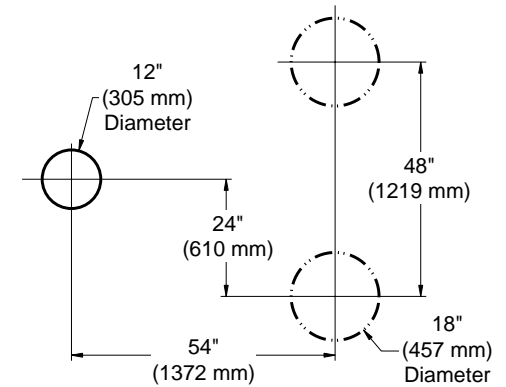
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

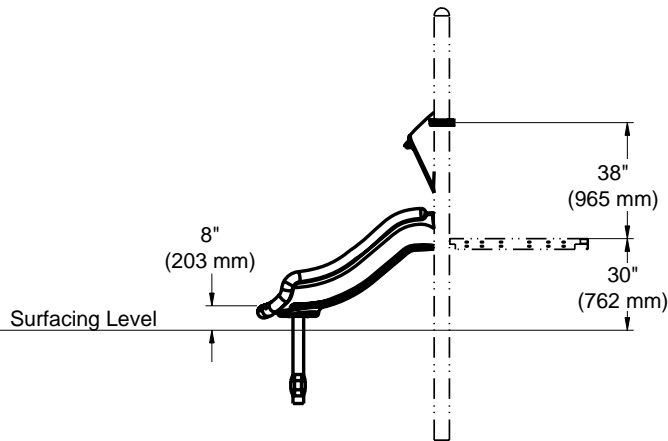
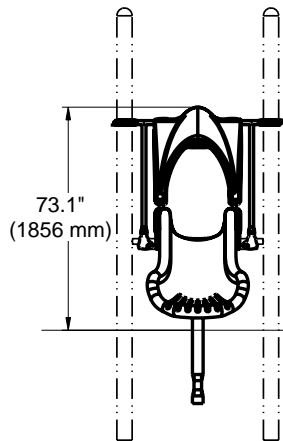


**Footing Diagram**

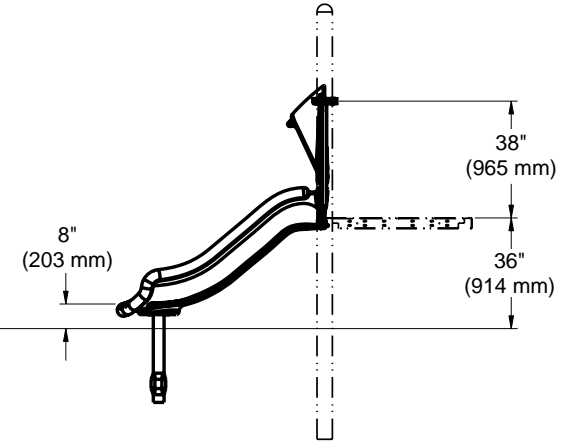
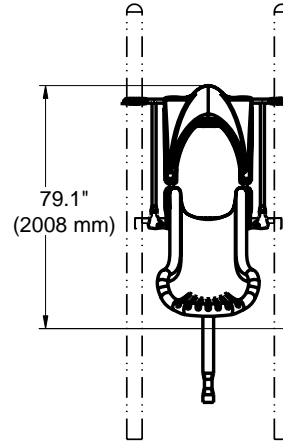
*If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.*



**Footing Diagram**

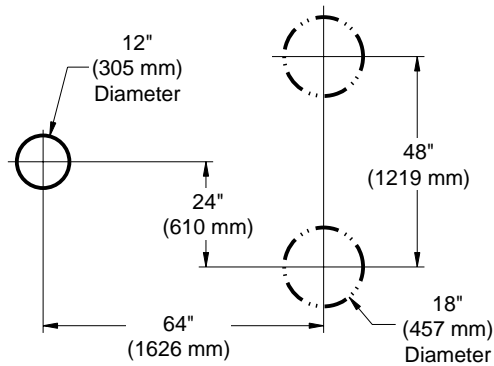


**Elevation View PM3128 - 30" Glide Slide**  
(24" slide: exit will be 2" (50mm) above the surfacing level)

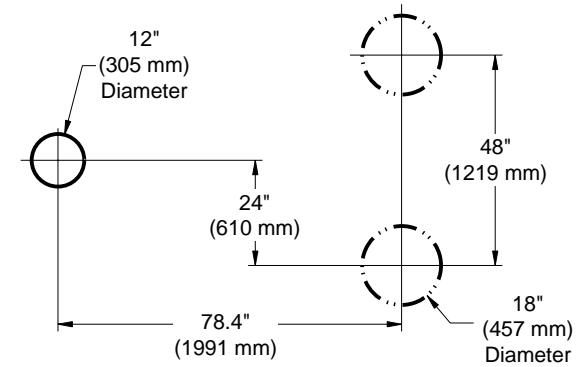


**Elevation View PM3127 - 36" Glide Slide**

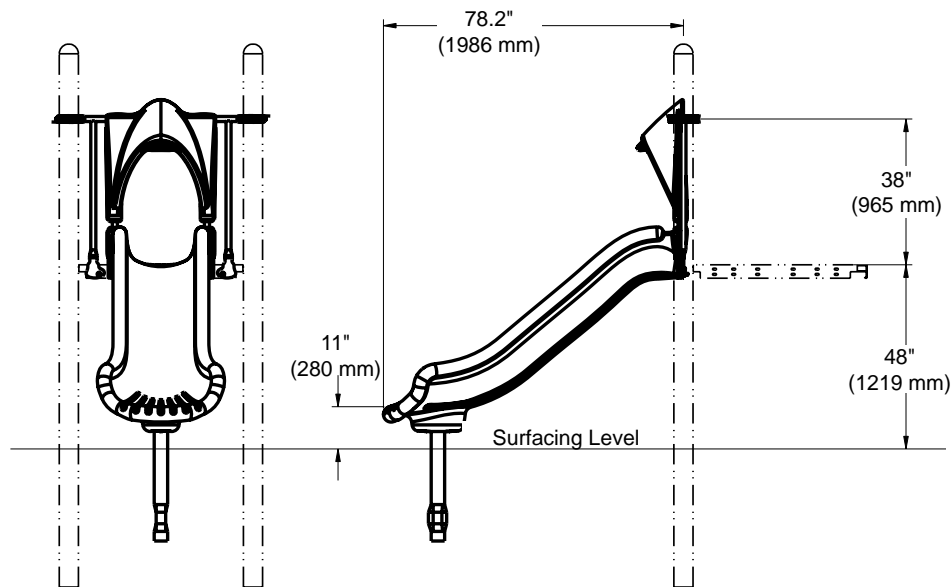
# Installation Instructions



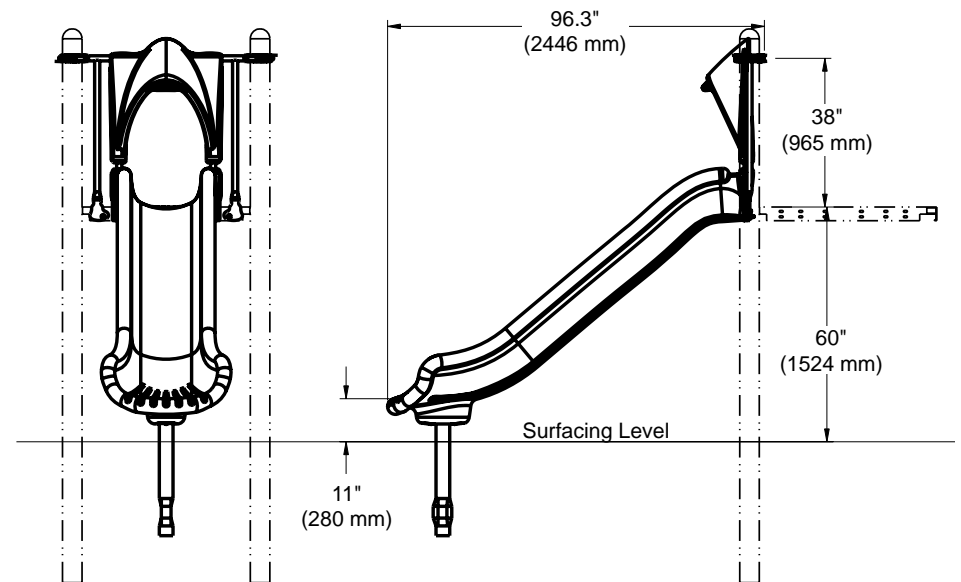
Footing Diagram



Footing Diagram

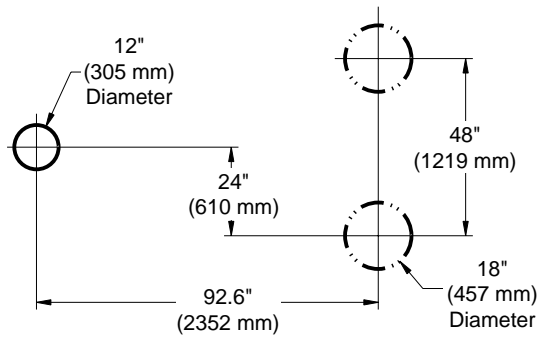


Elevation View PM3126 - 48" Glide Slide

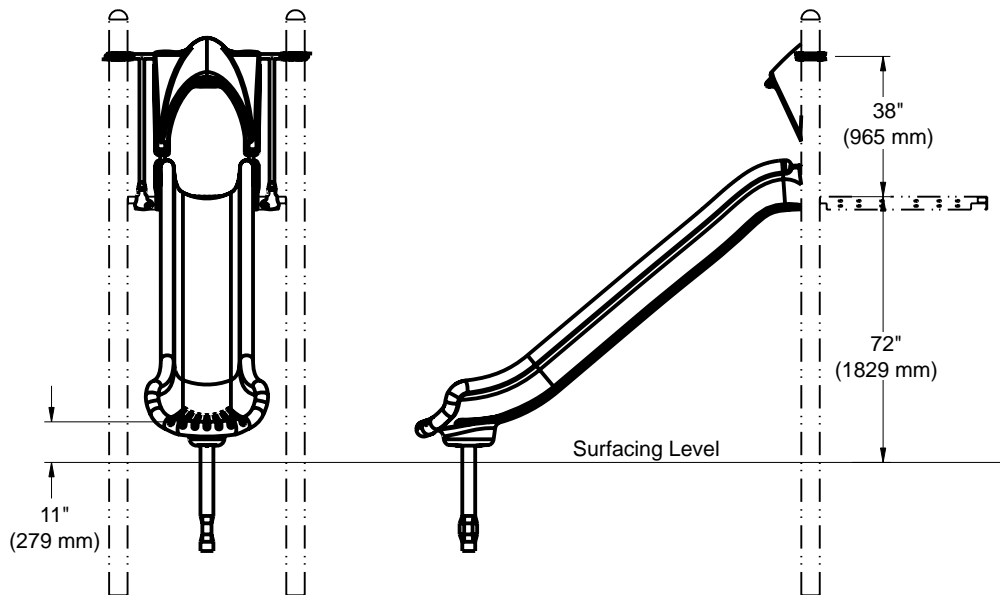


Elevation View PM2658 - 60" Glide Slide

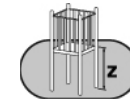
# Installation Instructions



Footings Diagram



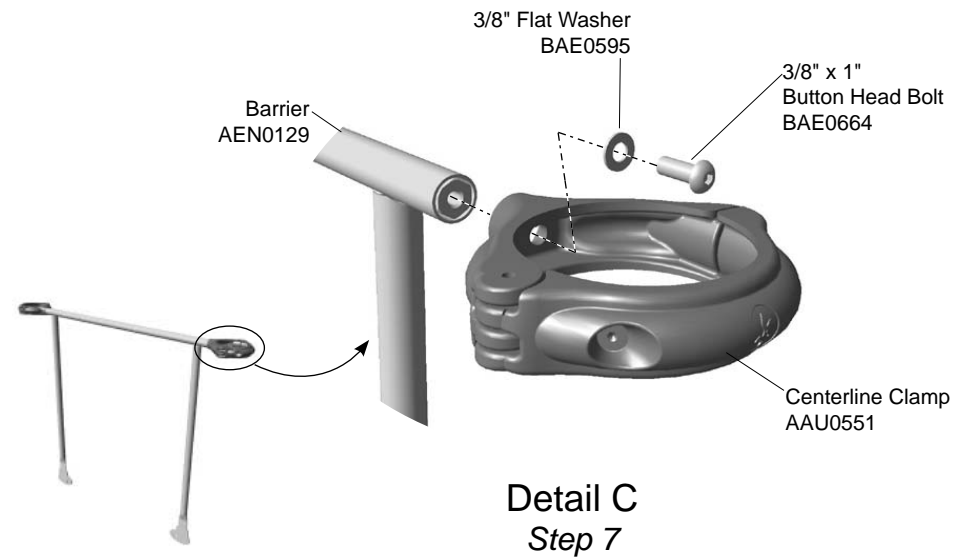
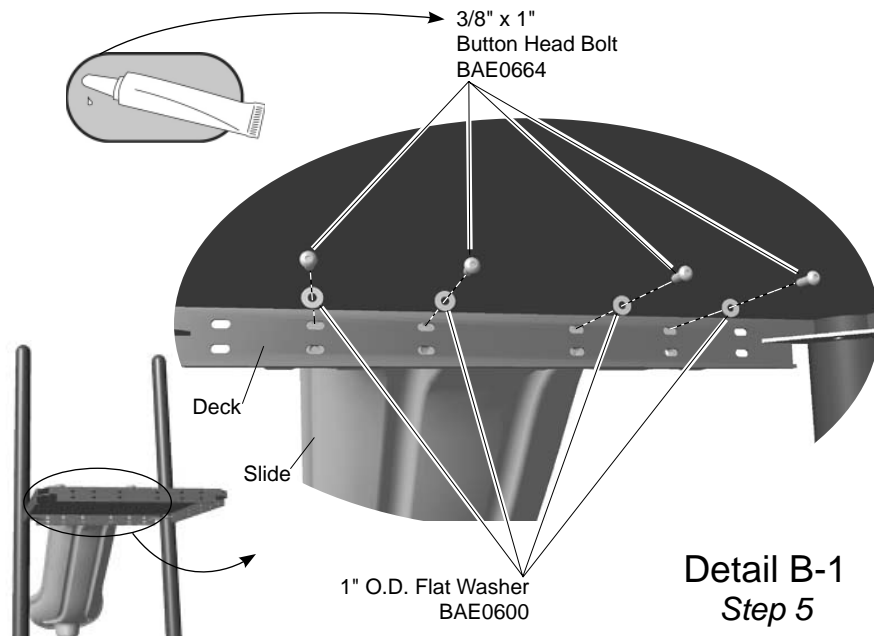
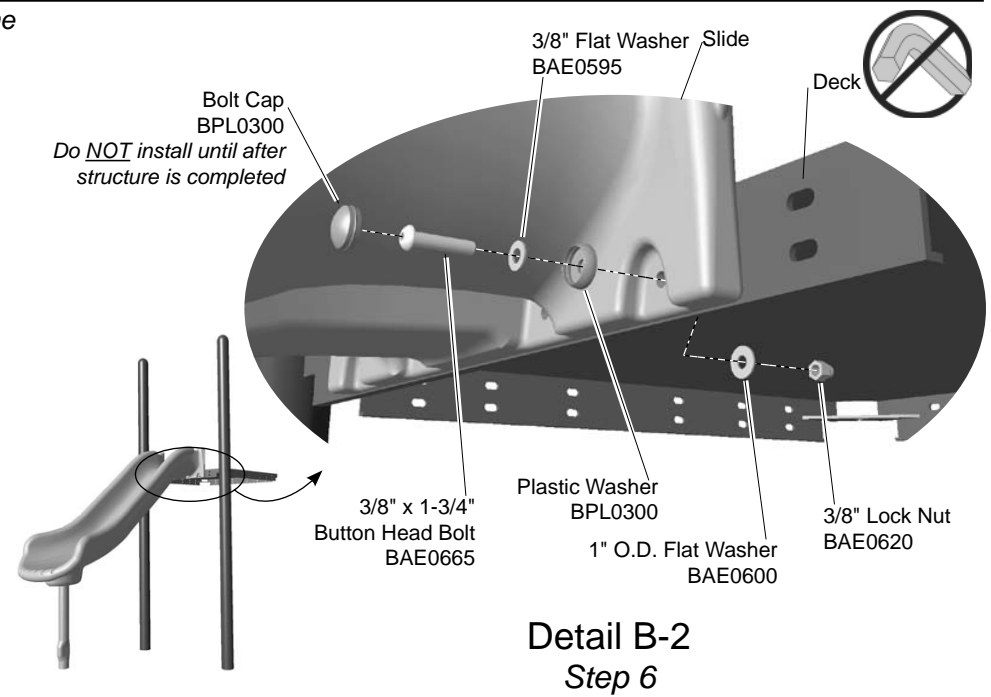
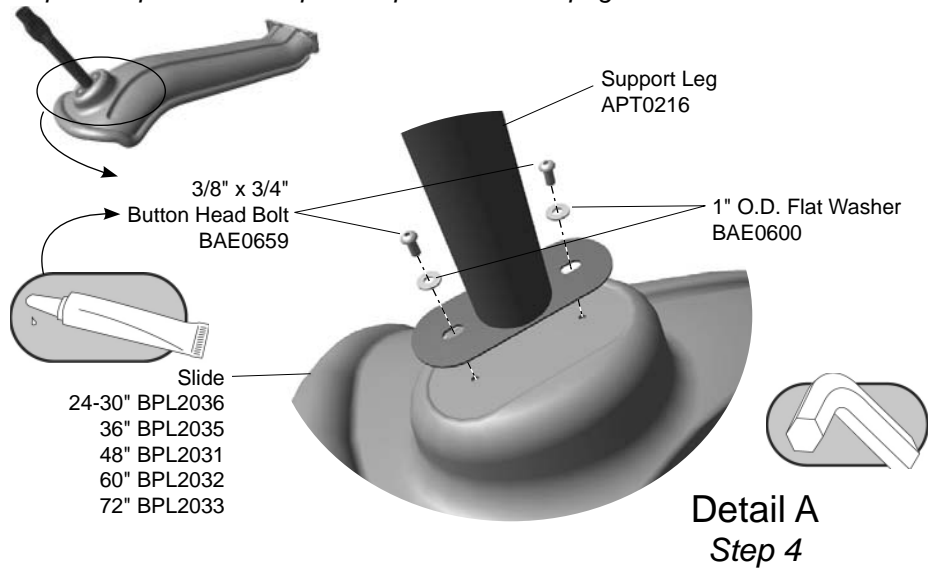
Elevation View PM2696 - 72" Glide Slide



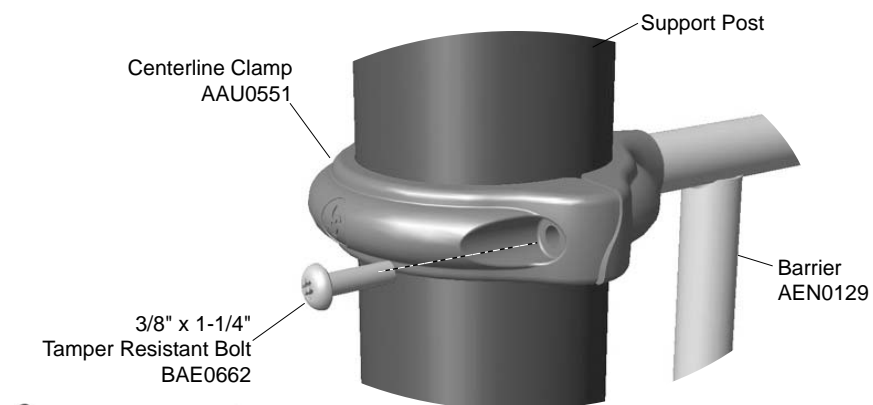
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

# Installation Instructions

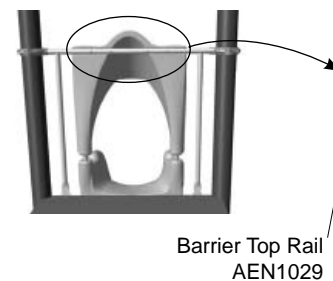
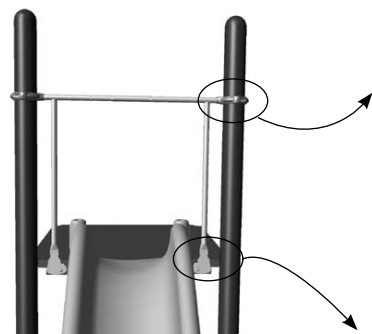
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



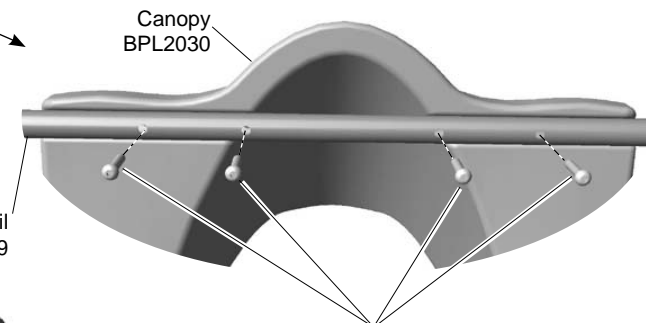
# Installation Instructions



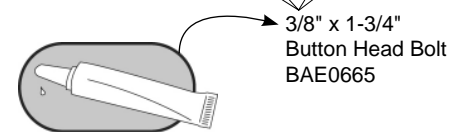
**Detail D-1**  
*Step 8*



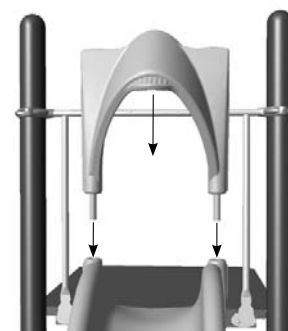
Barrier Top Rail  
AEN1029



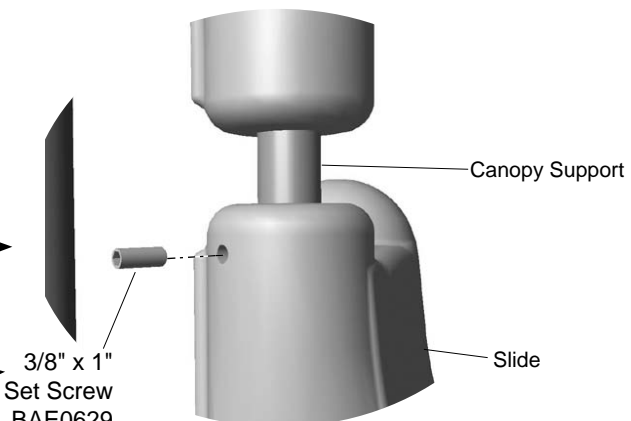
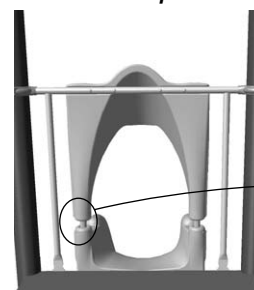
Canopy  
BPL2030



**Detail E-2**  
*Step 10*



**Detail E-1**  
*Step 10*

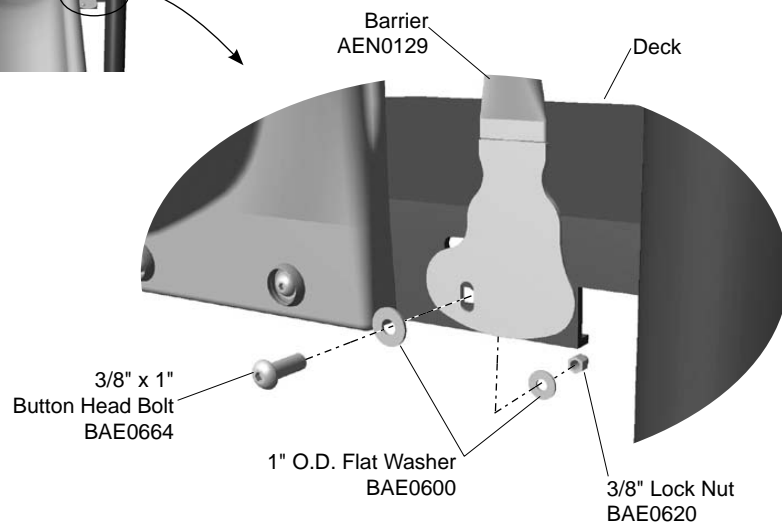


Canopy Support

Slide

3/8" x 1"  
Set Screw  
BAE0629

**Detail F**  
*Step 11*



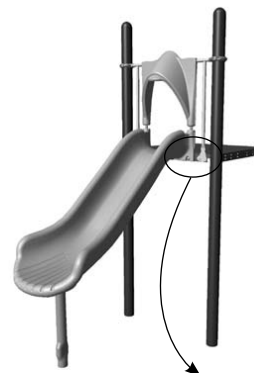
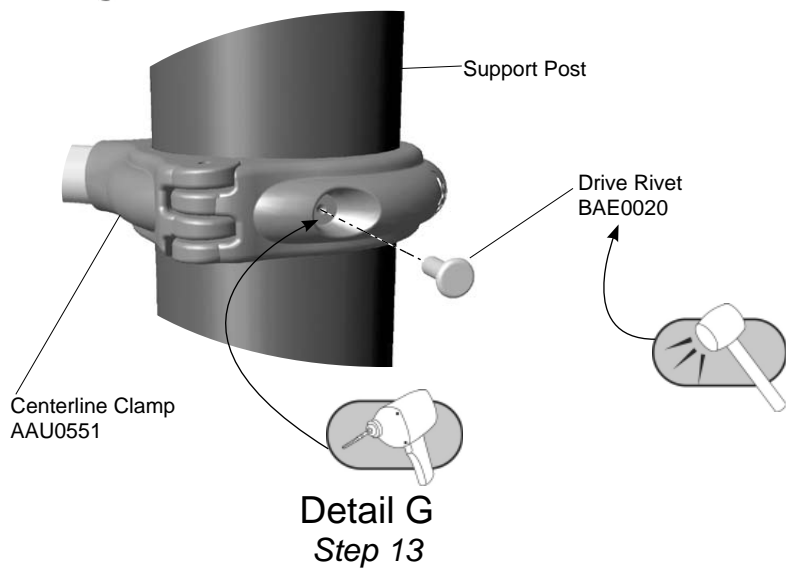
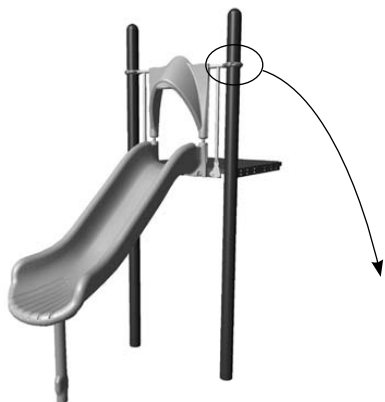
**Detail D-2**  
*Step 9*



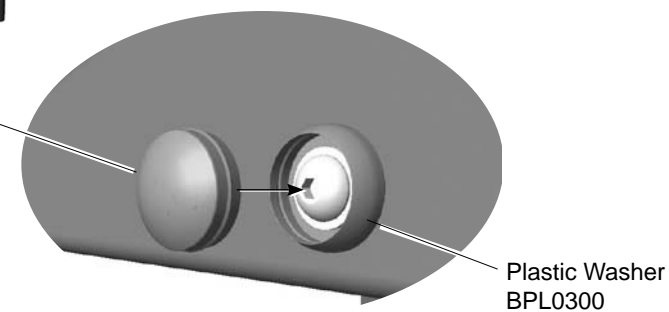
# Installation Instructions



Step 12



Bolt Cap  
BPL0300



Detail H  
Step 14  
(refer to Detail B-2 also)

# 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 bedway 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.

## 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

## 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

## 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

## 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

## 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" TPR 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® Model PM4290  
Post Mounted Steering Wheel

Installation Preparation

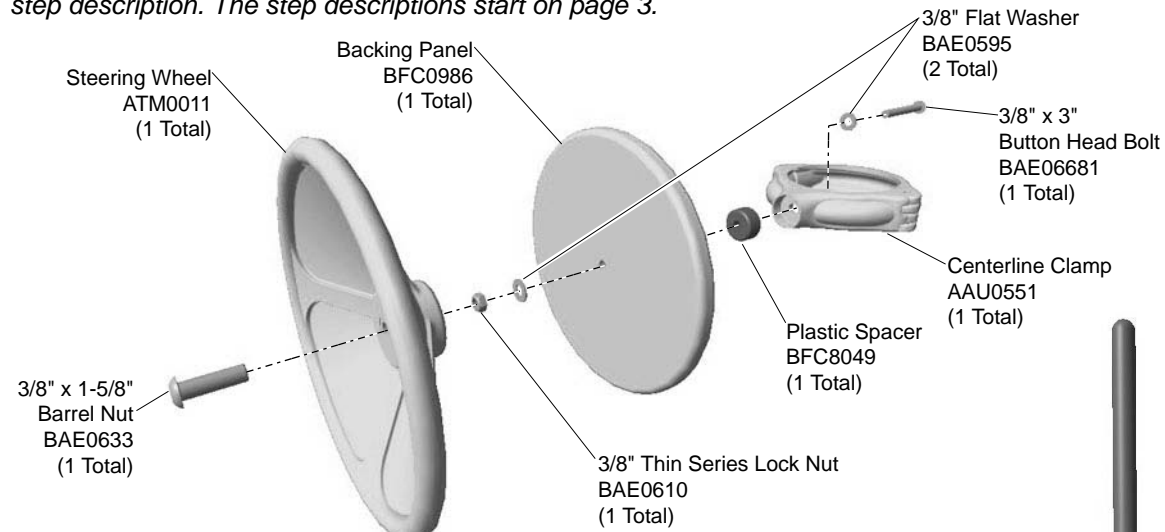
- Recommended Crew: ..... One (1) adult  
Installation Time: ..... 0.25 hour  
Weight: ..... \*8.7 lbs. (3,9 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

*\*Weights are approximate for determining manpower.*

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

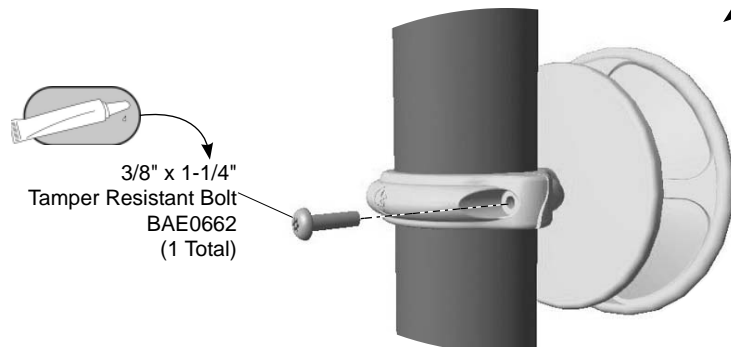
# Installation Instructions

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



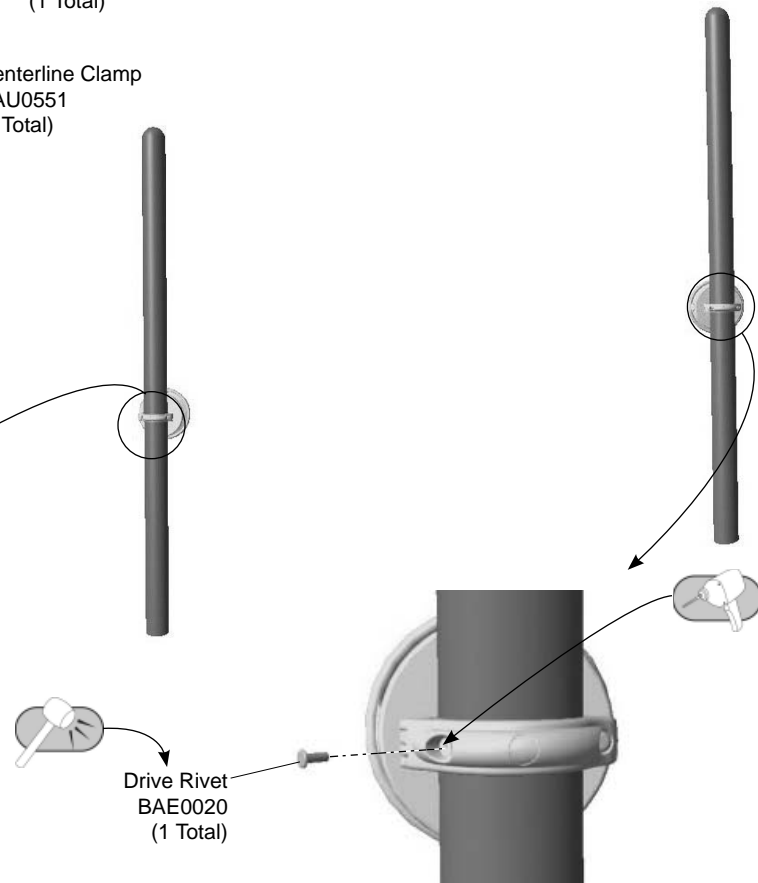
## Detail A Step 3

Attach the steering wheel to the backing panel and the clamp.



## Detail B Step 4

Attach the steering wheel assembly to the support post.



## Detail C Step 6

Secure the clamp to the support post.



# Installation Instructions

# Bill of Materials

**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 for placement of the steering wheel.

**Step 3:** Attach the steering wheel to the backing panel and the clamp. See **Detail A**. Assemble the steering wheel as shown. Full tighten the connection according to tightening torque specifications (See **Final Details**).

**Step 4:** Attach the steering wheel assembly to the support post. See **Detail B**. Close the clamp around the support post at the height desired, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

## Final Details.

**Step 5:** 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 6:** Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in the 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.

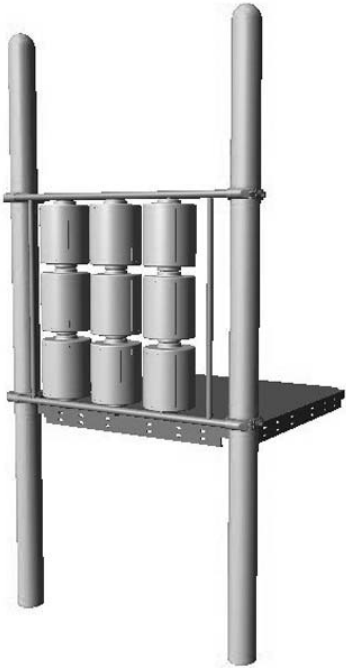
**Step 7:** For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

## PM4290 - POST MOUNTED STEERING WHEEL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BFC0986	SHEET - 10.00" x .75" w/HOLE	1
BFC8049	SHEET - 1.39" O.D. x 7/16" I.D. SPACER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View

Installation Instructions  
Playmakers® Model PM4350  
Tic Tac Toe Activity Wall

Installation Preparation

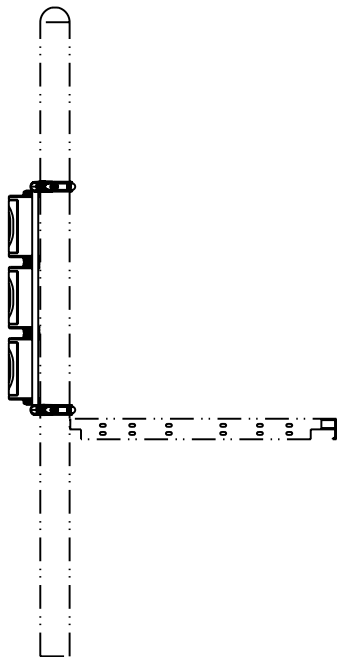
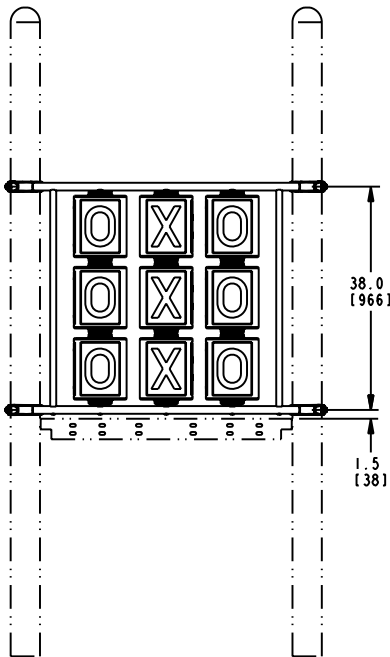
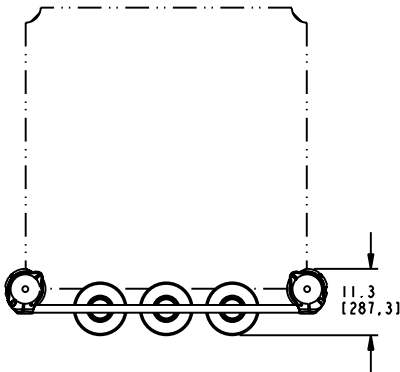
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 0.5 hour  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

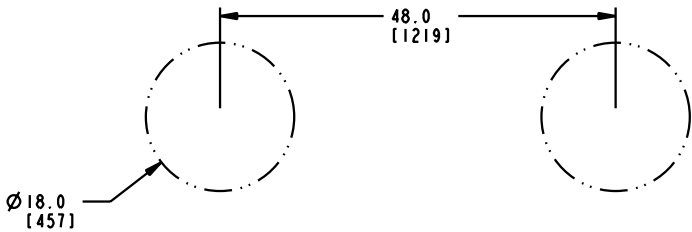
# Installation Instructions

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

Top View



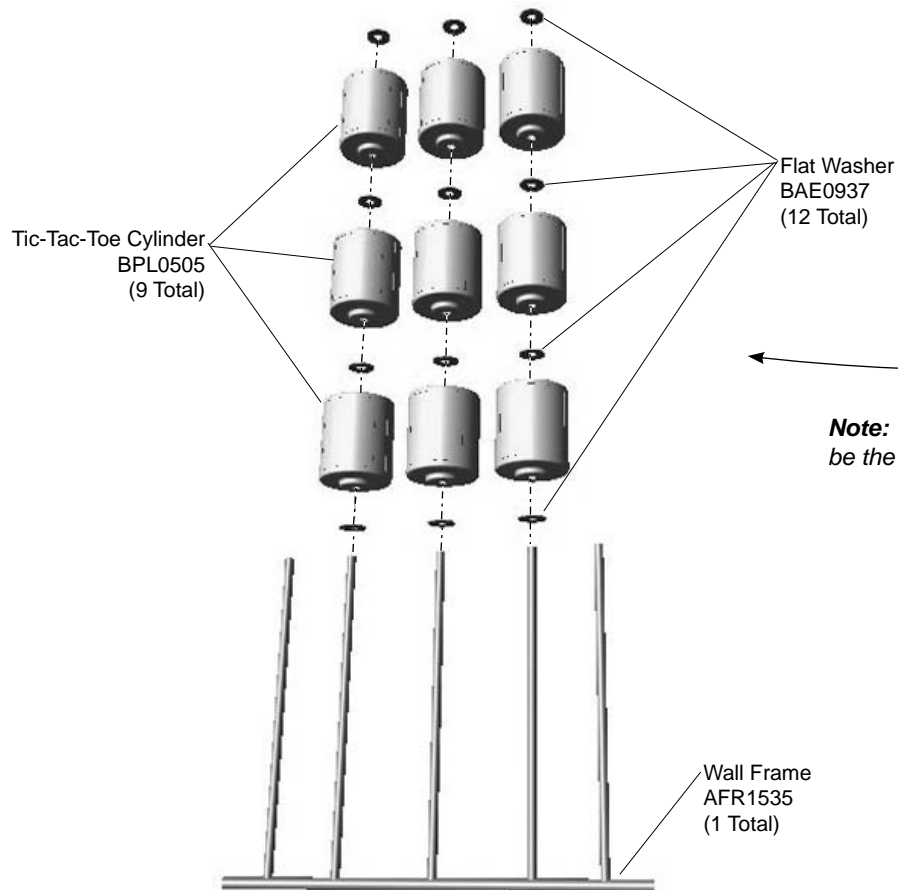
Elevation Views



Footing Diagram

# Installation Instructions

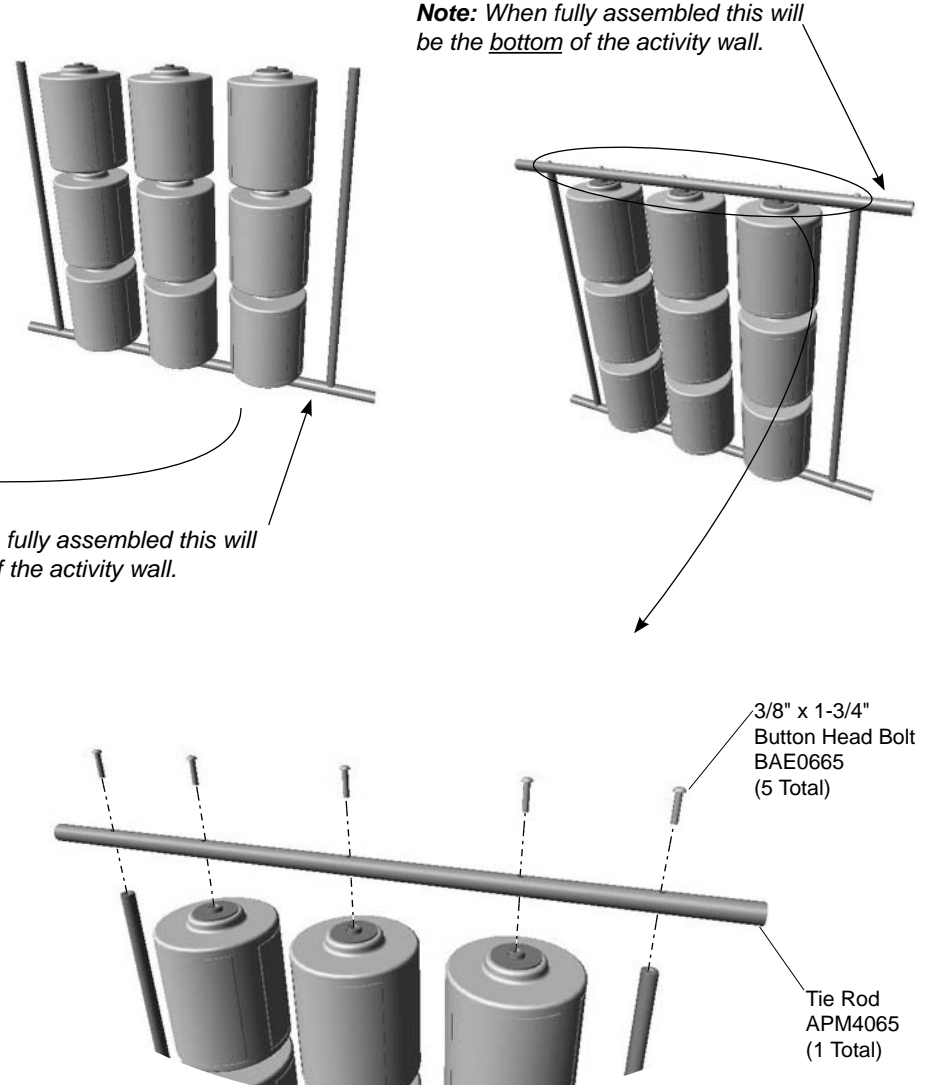
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



**Detail A**  
**Step 3**

*Stack the cylinders onto the wall frame.*

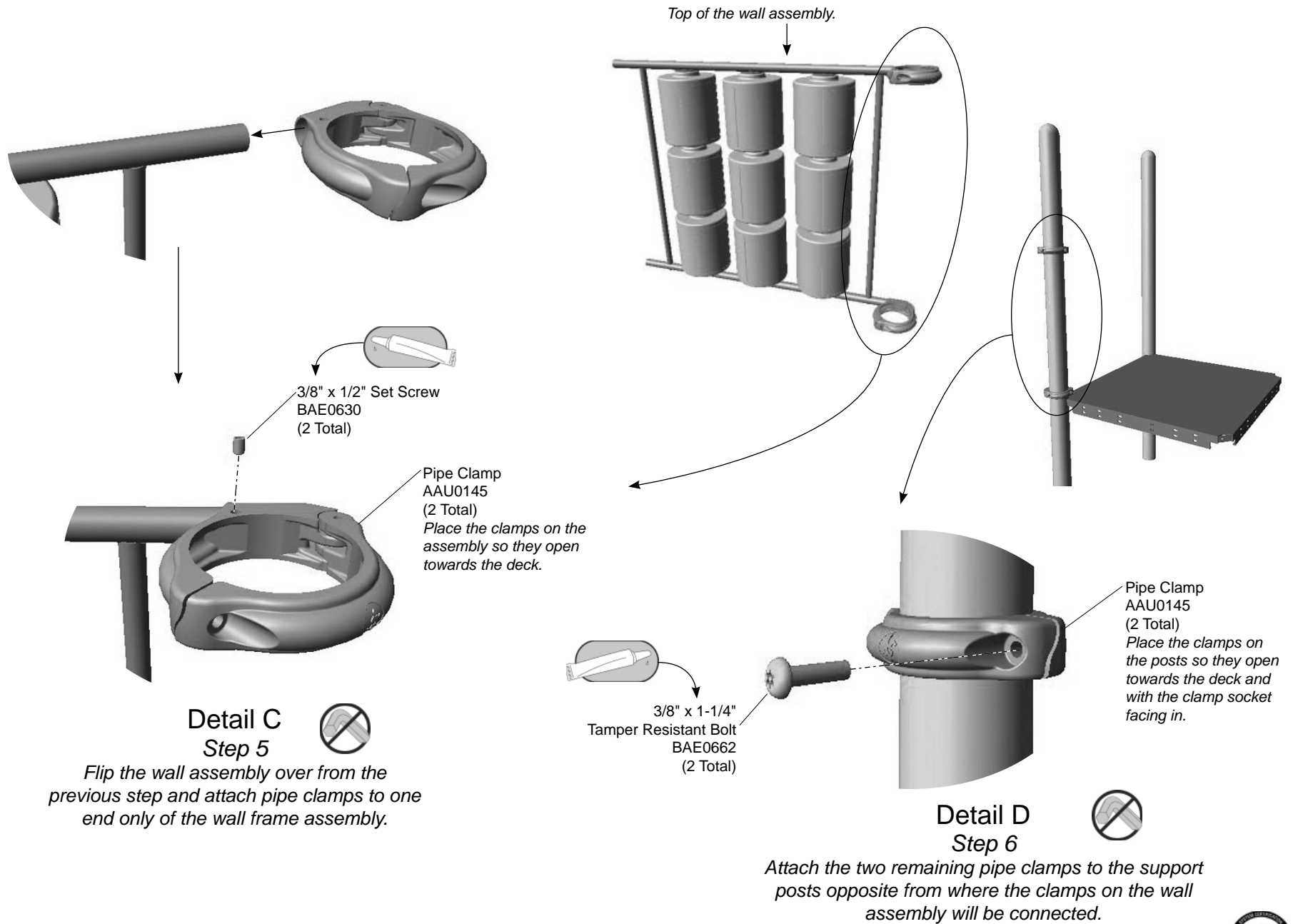
**Note:** When fully assembled this will be the top of the activity wall.



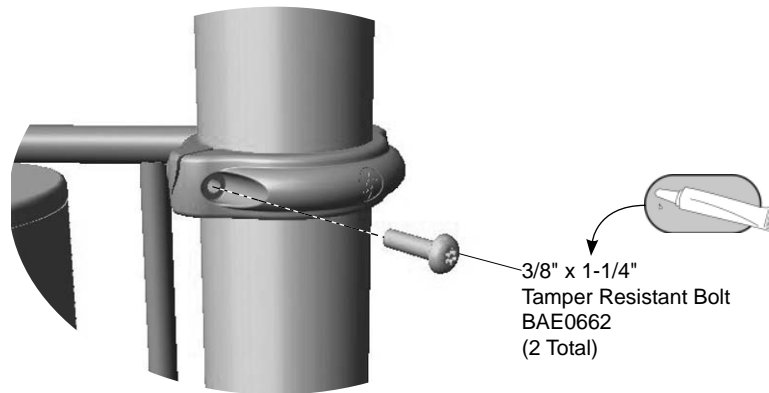
**Detail B**  
**Step 4**

*Attach the tie rod to the wall frame assembly.*

# Installation Instructions



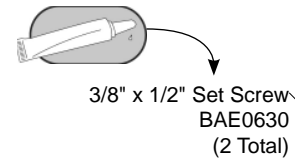
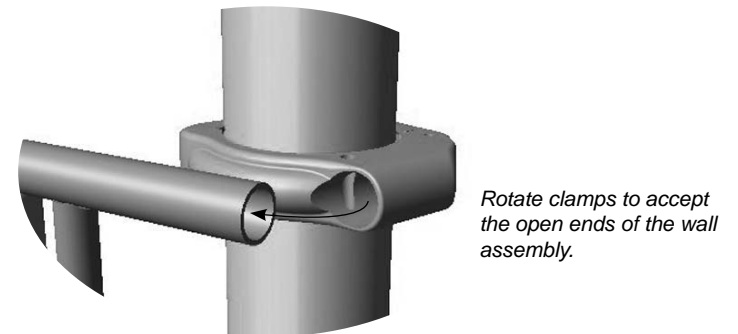
# Installation Instructions



**Detail E**  
**Step 7**



*Attach the wall assembly to the support post.*



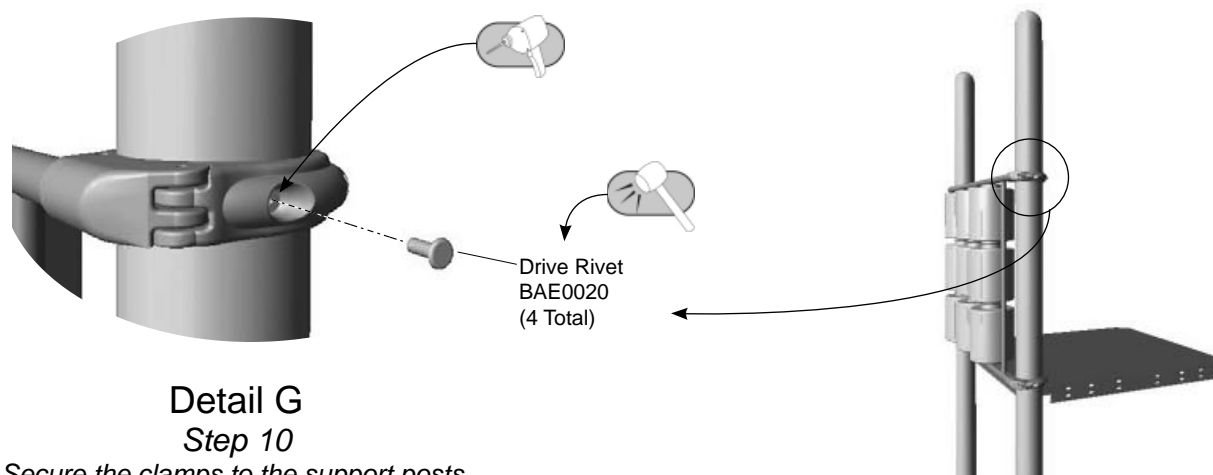
**Detail F**  
**Step 8**



*Attach the open ends of the wall assembly to the pre-mounted clamps on the opposite support post.*

# Installation Instructions

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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:** Stack the cylinders onto the wall frame. See **Detail A**. Stack the flat washers and cylinders onto the rungs of the wall frame as shown.

**Step 4:** Attach the tie rod to the wall assembly. See **Detail B**. Place the tie rod into position over the cylinders, align the holes, and attach as shown to the wall frame rungs. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

**Step 5:** Flip the wall assembly over from the previous step and attach pipe clamps to one end only of the wall frame assembly. See **Detail C**. Slide a pipe clamp onto one end of both the upper and lower tie rods. Place the clamps on the assembly so they open towards the deck. Apply a drop of loctite to set the screw threads and thread each screw into the *top* of each clamp.

**Step 6:** Attach the two remaining pipe clamps to the support posts opposite from where the clamps on the wall assembly will be connected. See **Detail D and Elevation View**. Close the clamps on the posts so they open towards the deck and with the clamp socket facing in. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

**Step 7:** Attach the activity wall to the support post. See **Detail E**. Position the wall assembly between the support posts and close the clamps around the open support post at the height shown in the **Elevation View**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

**Step 8:** Attach the open ends of the wall assembly to the pre-mounted clamps on the opposite support post. See **Detail F**. Rotate the pre-mounted clamps to accept the open ends of the wall assembly. Full seat the ends in the clamps, apply a drop of loctite to the set screw threads and attach as shown. Adjust the activity wall to the specified height and then snug tighten the connections.

**Important Note:** The height of the activity wall can be adjusted to prevent clamp interference, however, the lower surface of the bottom tie rod cannot be more than 3" (76 mm) above the deck surface.

## 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.

*Set Screws* - Snug tighten and tighten an additional full 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.

## PM4350 - TIC TAC TOE ACTIVITY WALL

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	4
AFR1535	FRAME - 1.32" x 38.12" x 49.00"	1
APM4065	FAB METAL - 1.315" O.D. x 49.00" w/5 HOLES	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
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
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	5
BAE0937	WASHER - 1-1/8" I.D. x 3-1/4" O.D. FLAT	12
BPL0505	MISC - TIC - TAC - TOE CYLINDERS	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

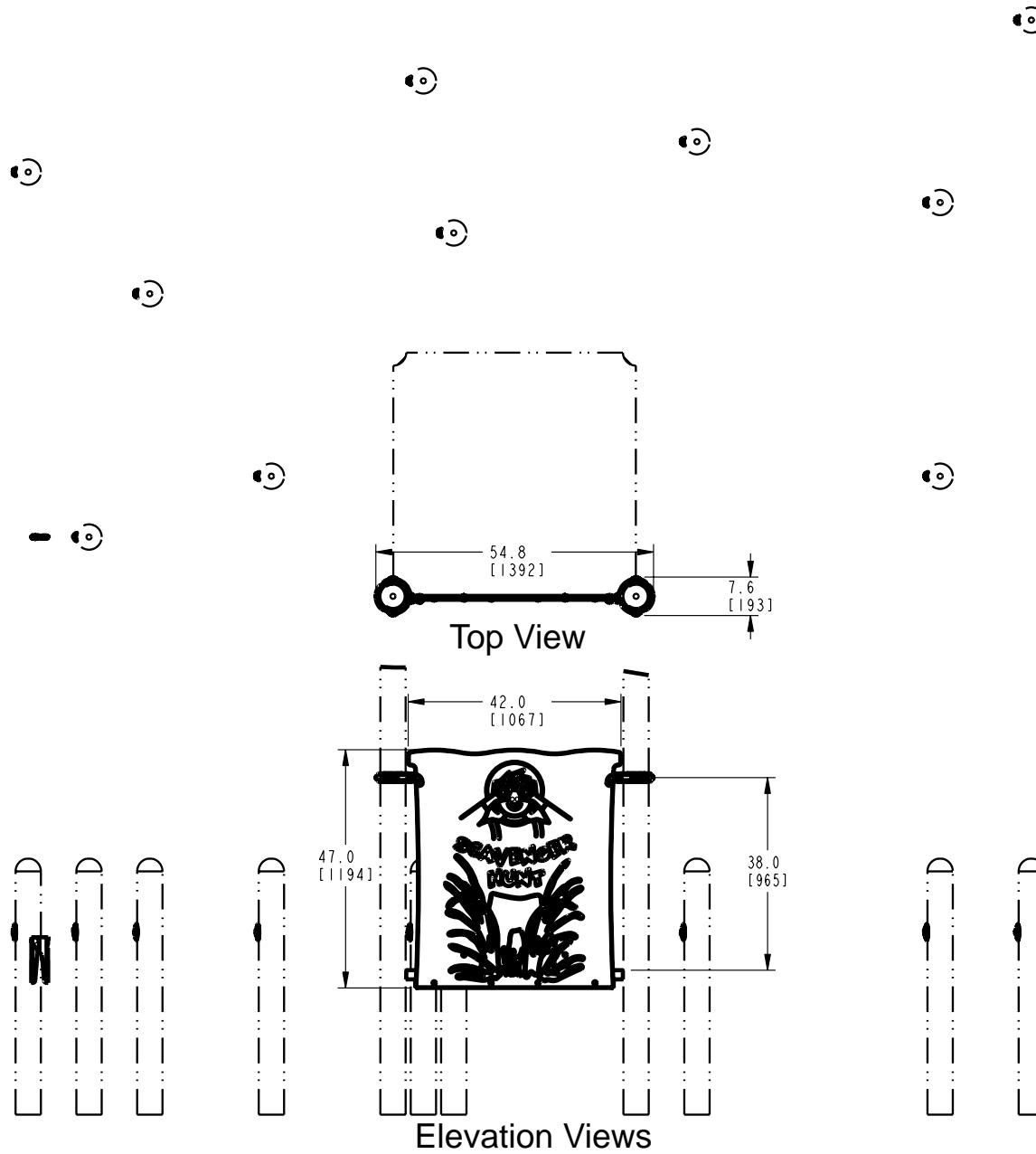
*\*Weights are approximate for determining manpower.*

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



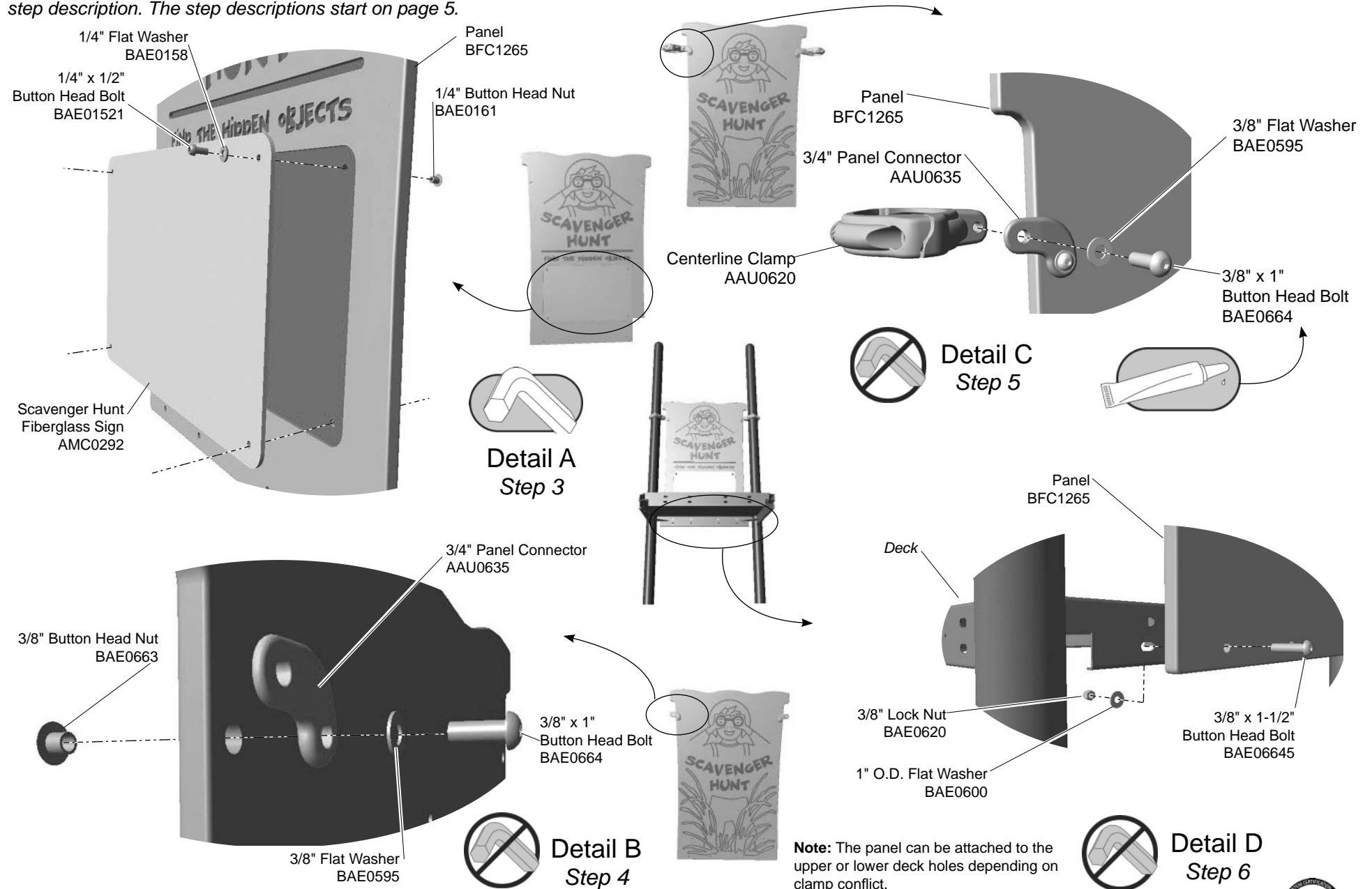
# Installation Instructions

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

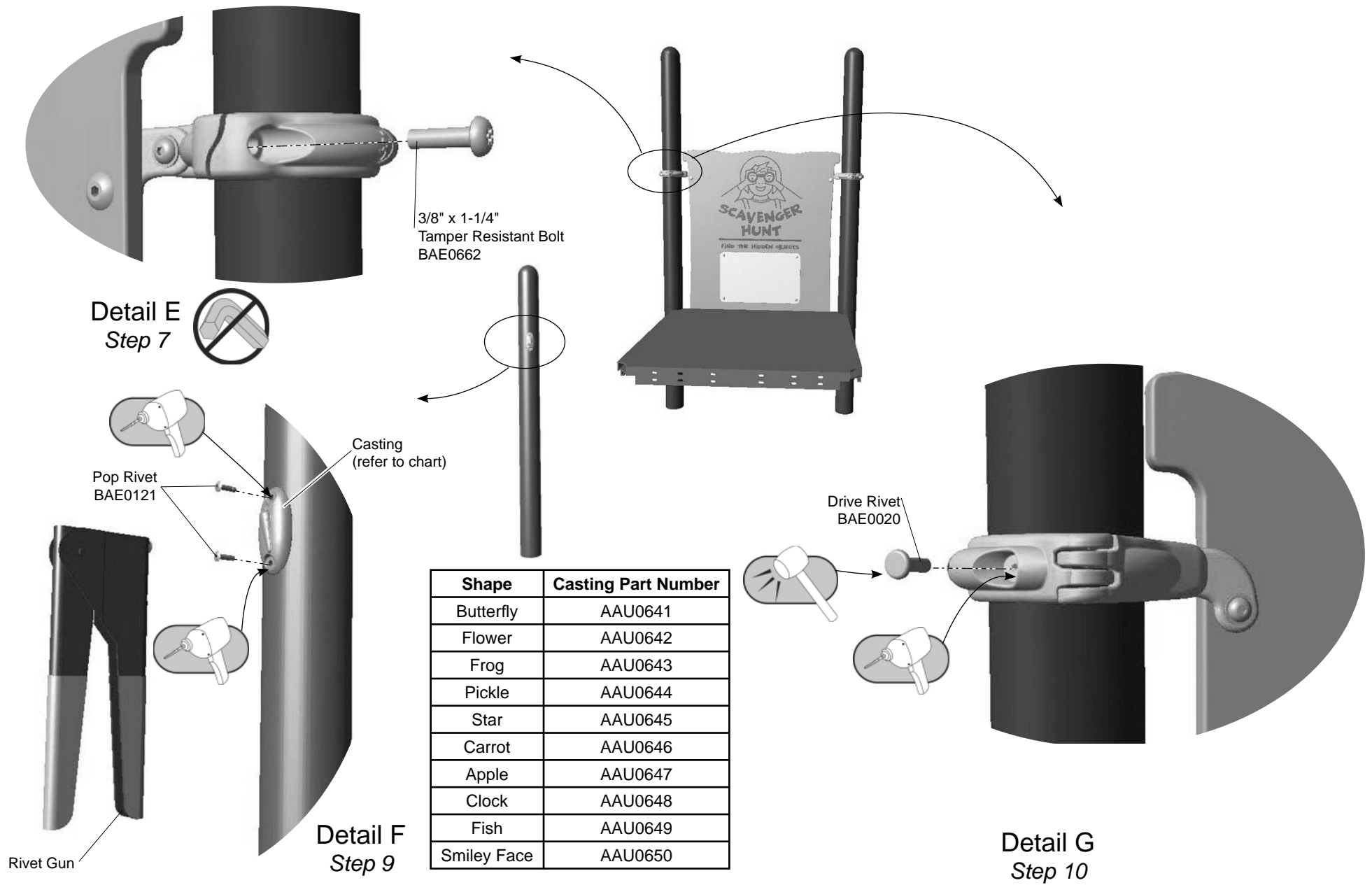


# Installation Instructions

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" TPR 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

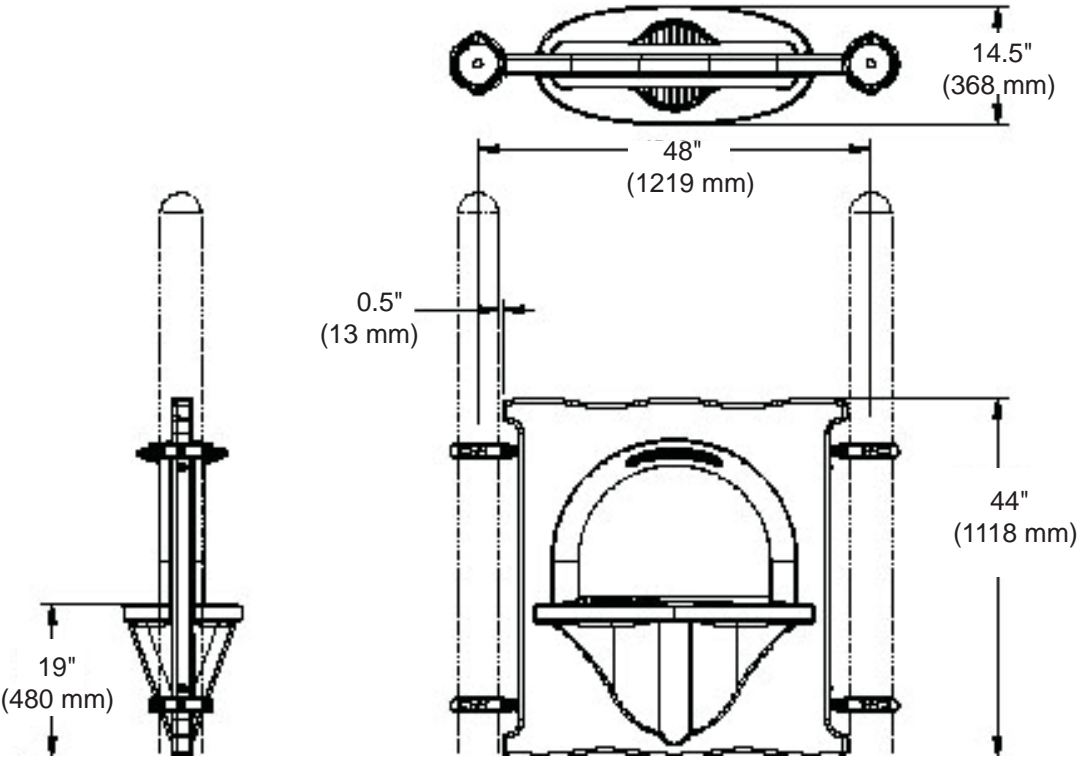
**Installation Preparation**

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

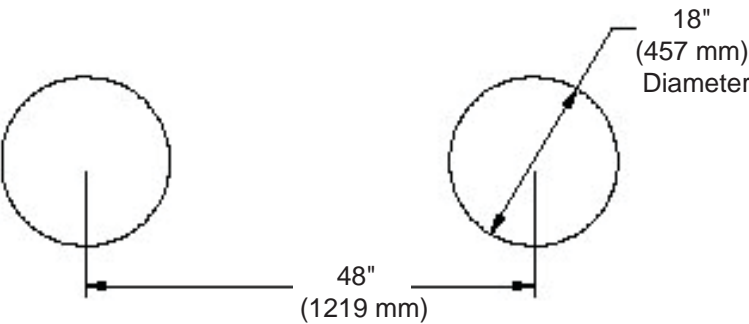
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

# Installation Instructions

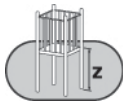
Top View



Footing Diagram



Elevation Views

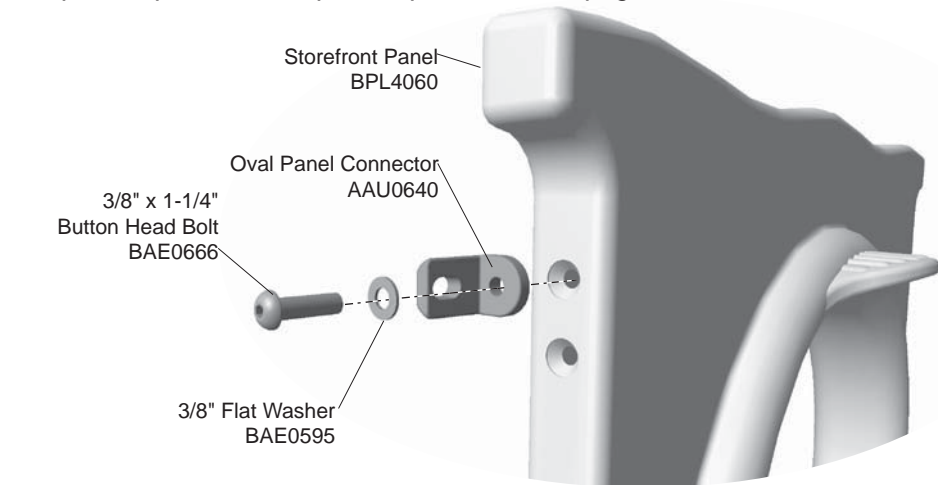


EN: 480 mm

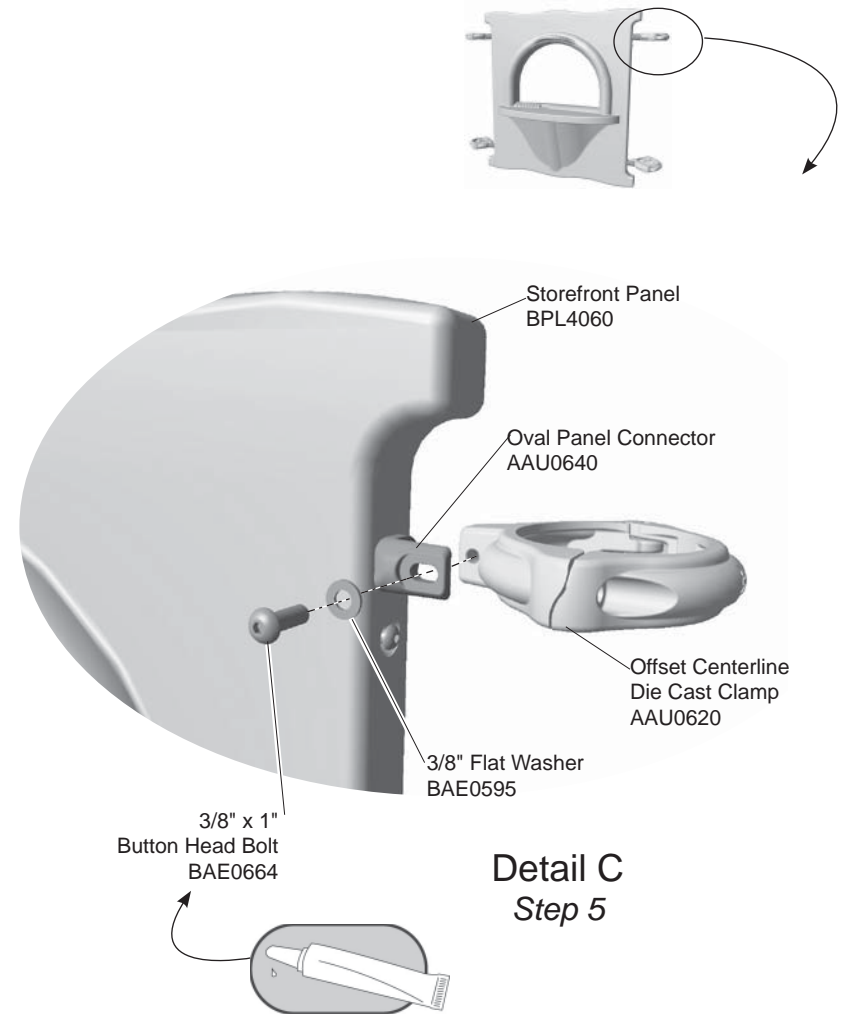
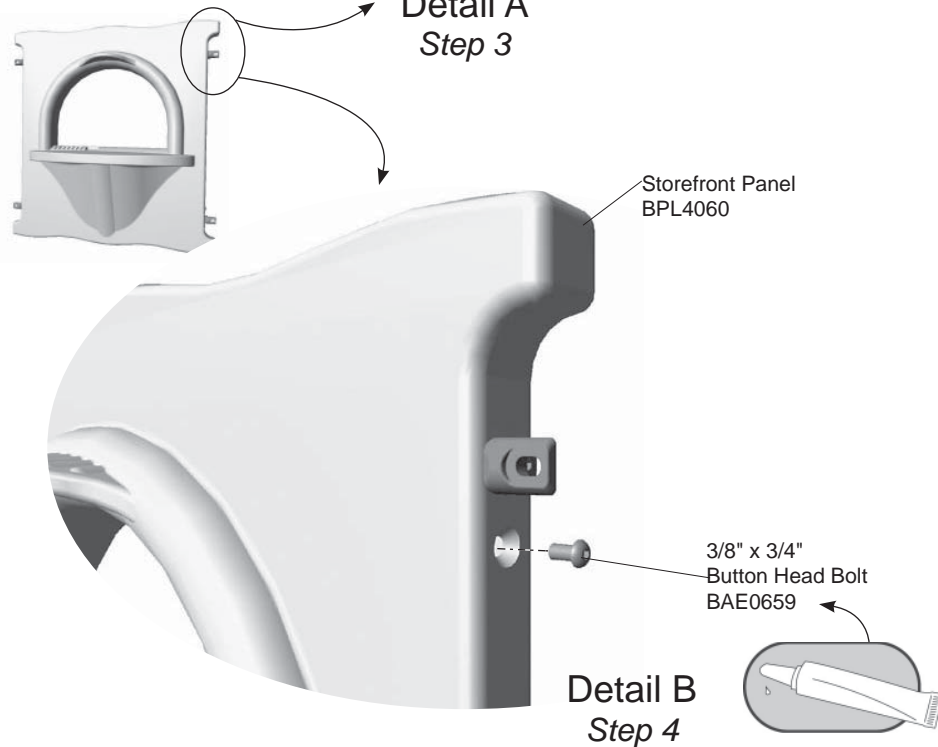


# Installation Instructions

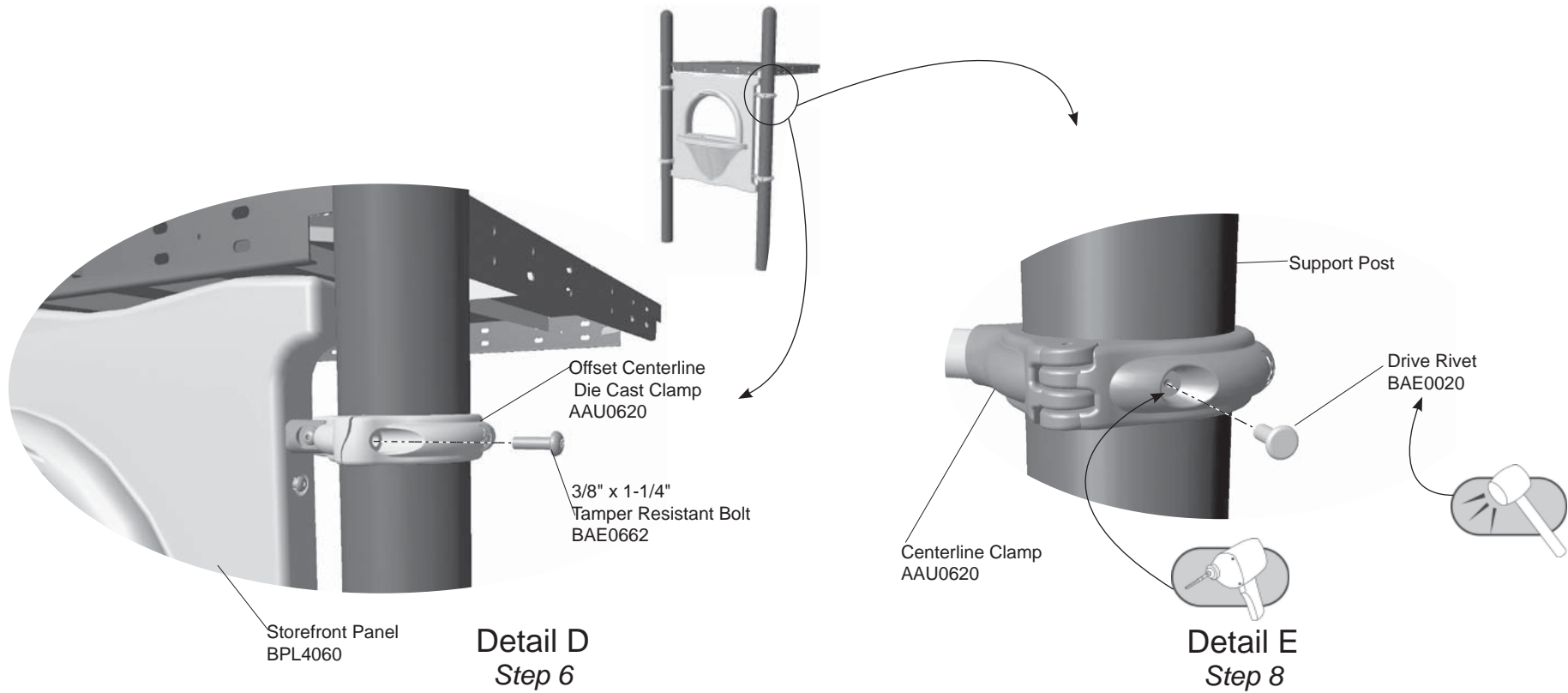
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



**Detail A**  
Step 3



# Installation Instructions



# Installation Instructions

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**\_\_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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Assembly View

# Installation Instructions

## Playmakers® Model PM4288

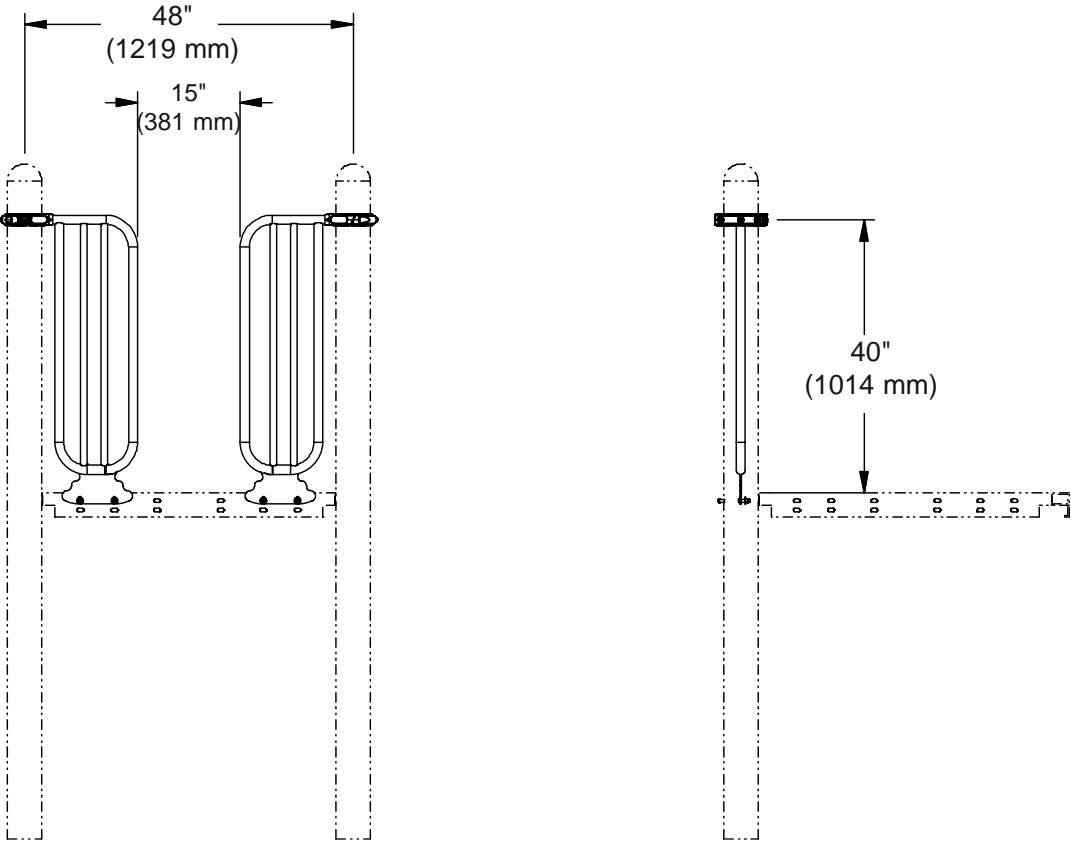
### Compliance Access Gate

#### 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
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

# Installation Instructions

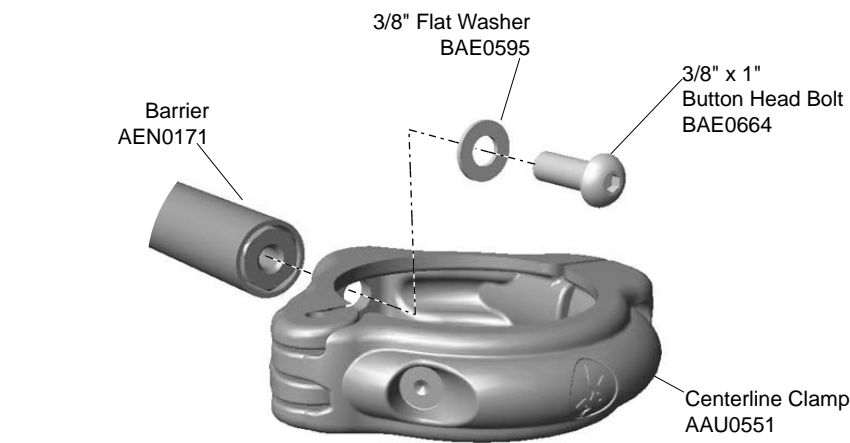


Elevation View

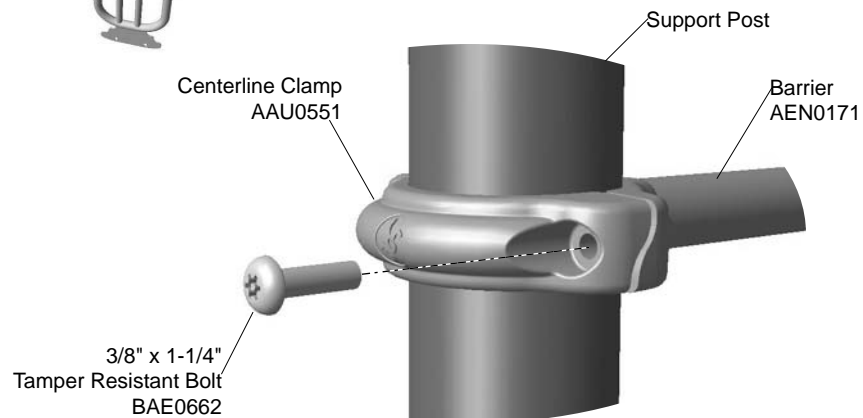


# Installation Instructions

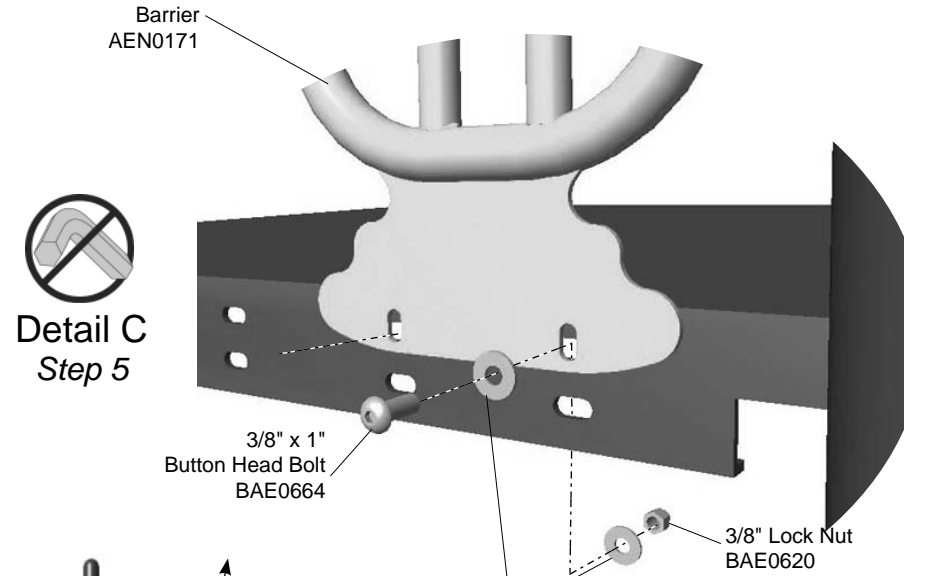
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



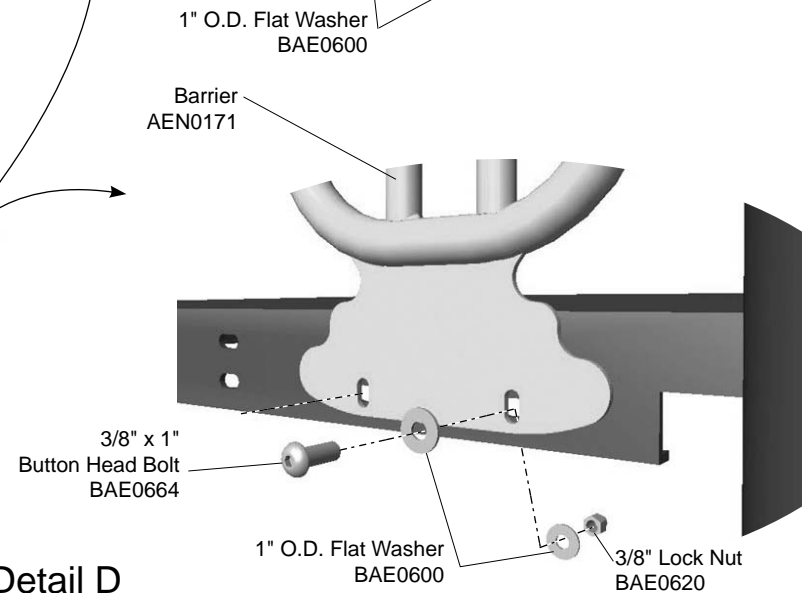
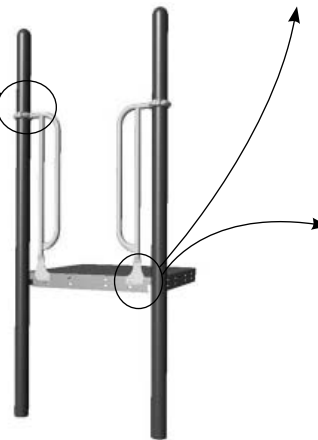
**Detail A**  
Step 3



**Detail B**  
Step 4



**Detail C**  
Step 5



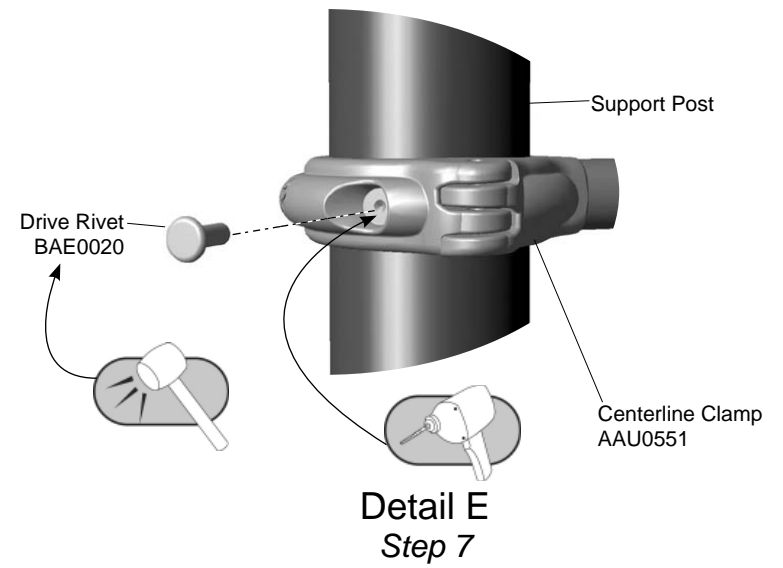
**Detail D**  
Step 5

# Installation Instructions

---



*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.

**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

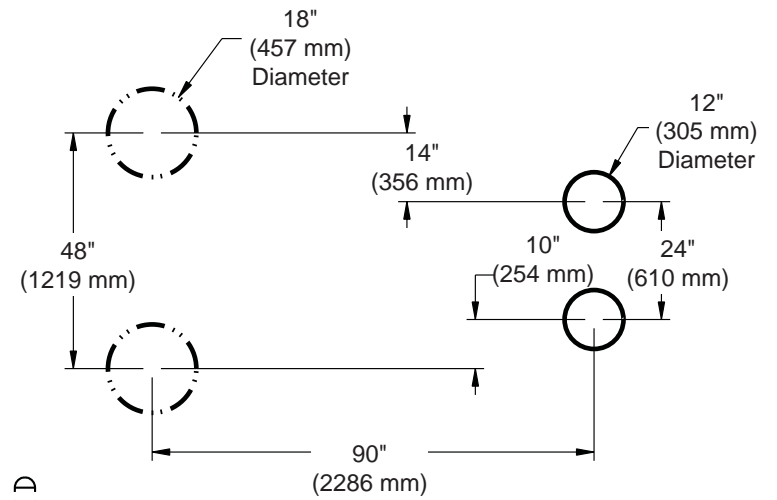
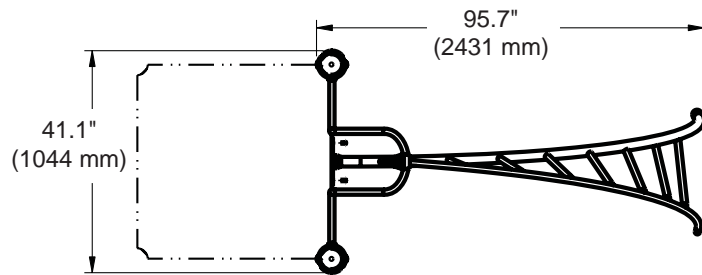
### ICON KEY

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

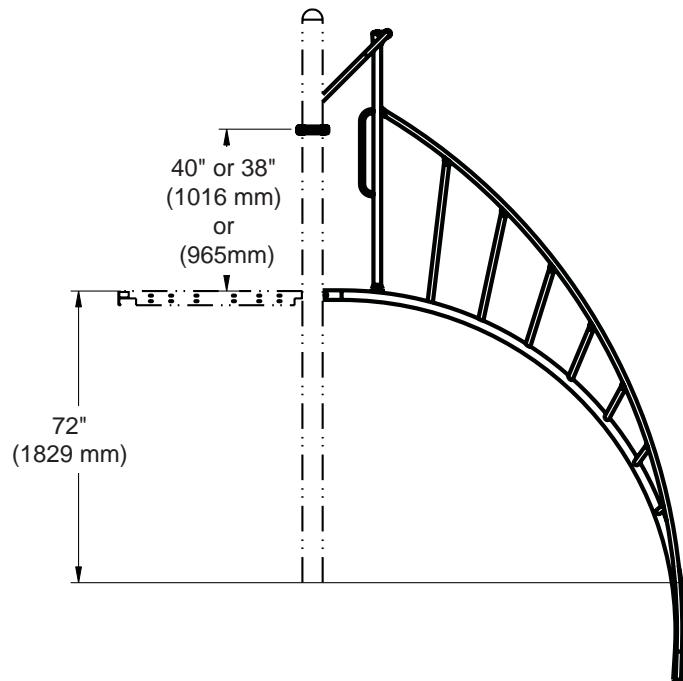


# Installation Instructions

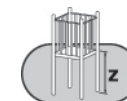
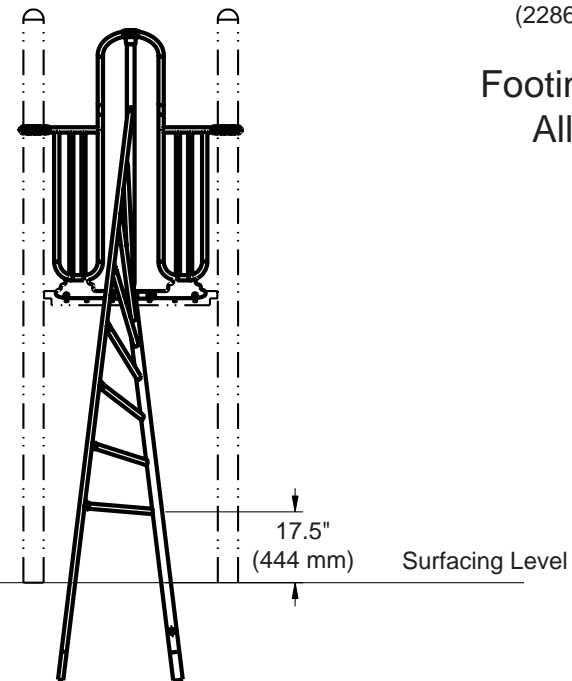
Top View



Footing Diagram  
All Models



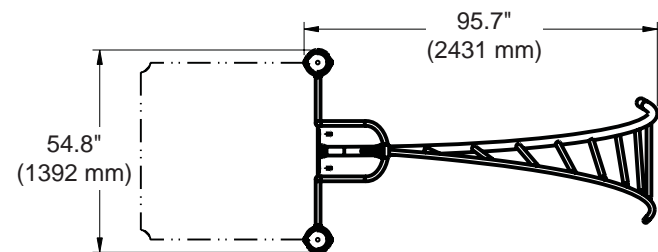
Elevation Views  
ZZPM7160



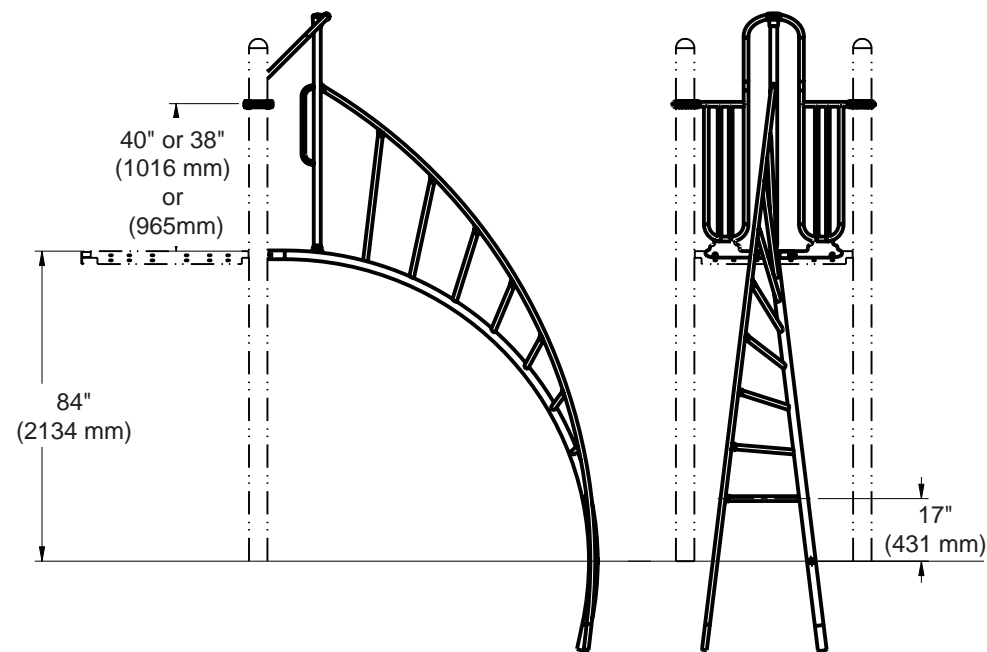
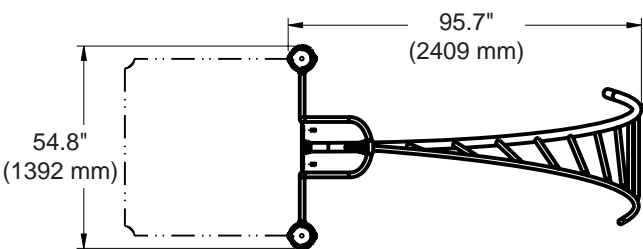
EN: 1829 mm

# Installation Instructions

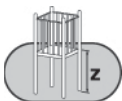
Top View



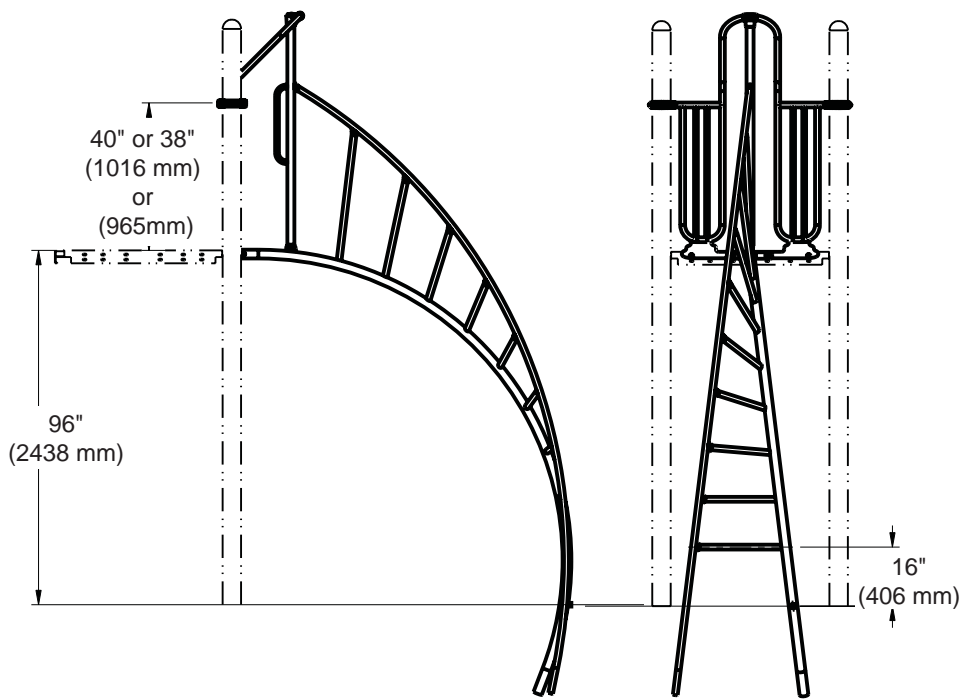
Top View



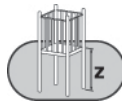
Elevation Views  
ZZPM7166



EN: 2134 mm



Elevation Views  
ZZPM7167

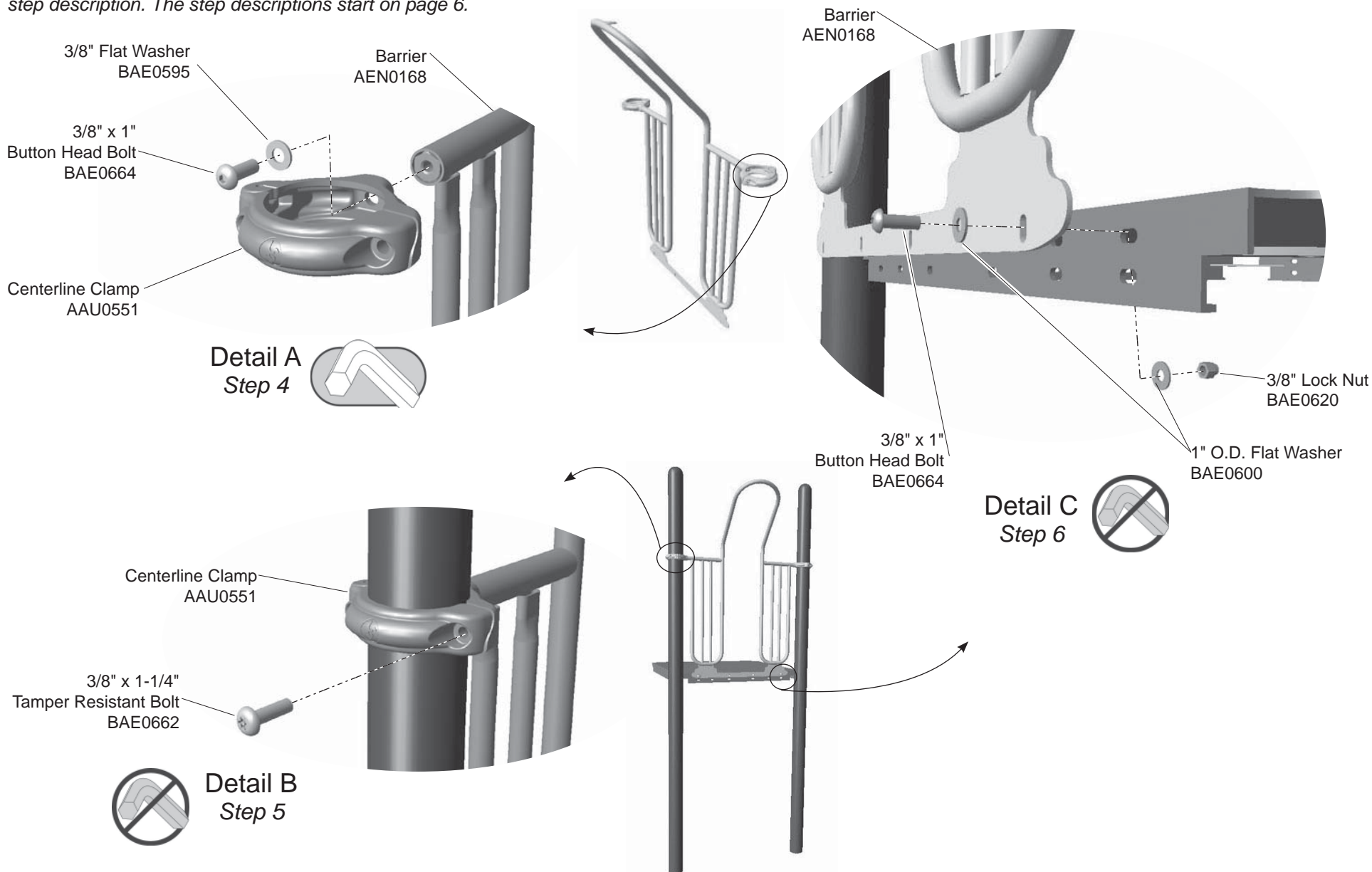


EN: 2438 mm



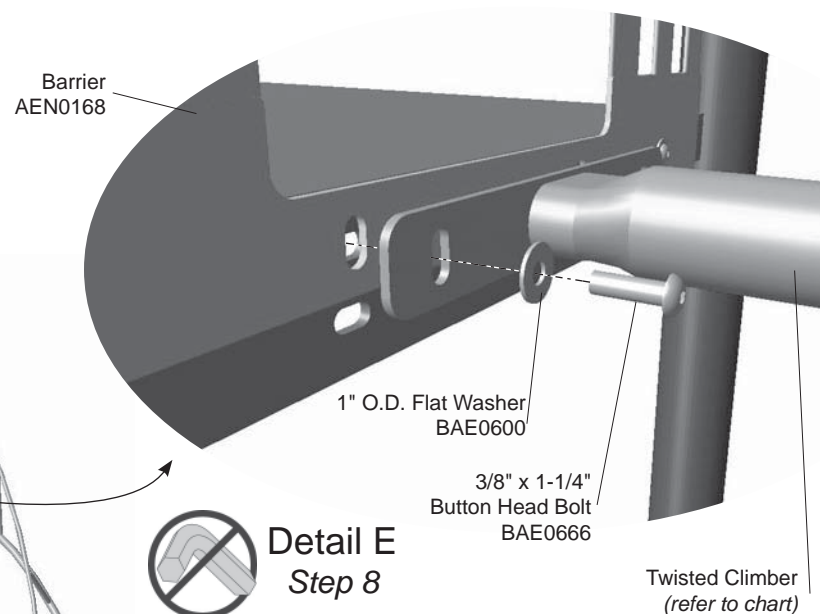
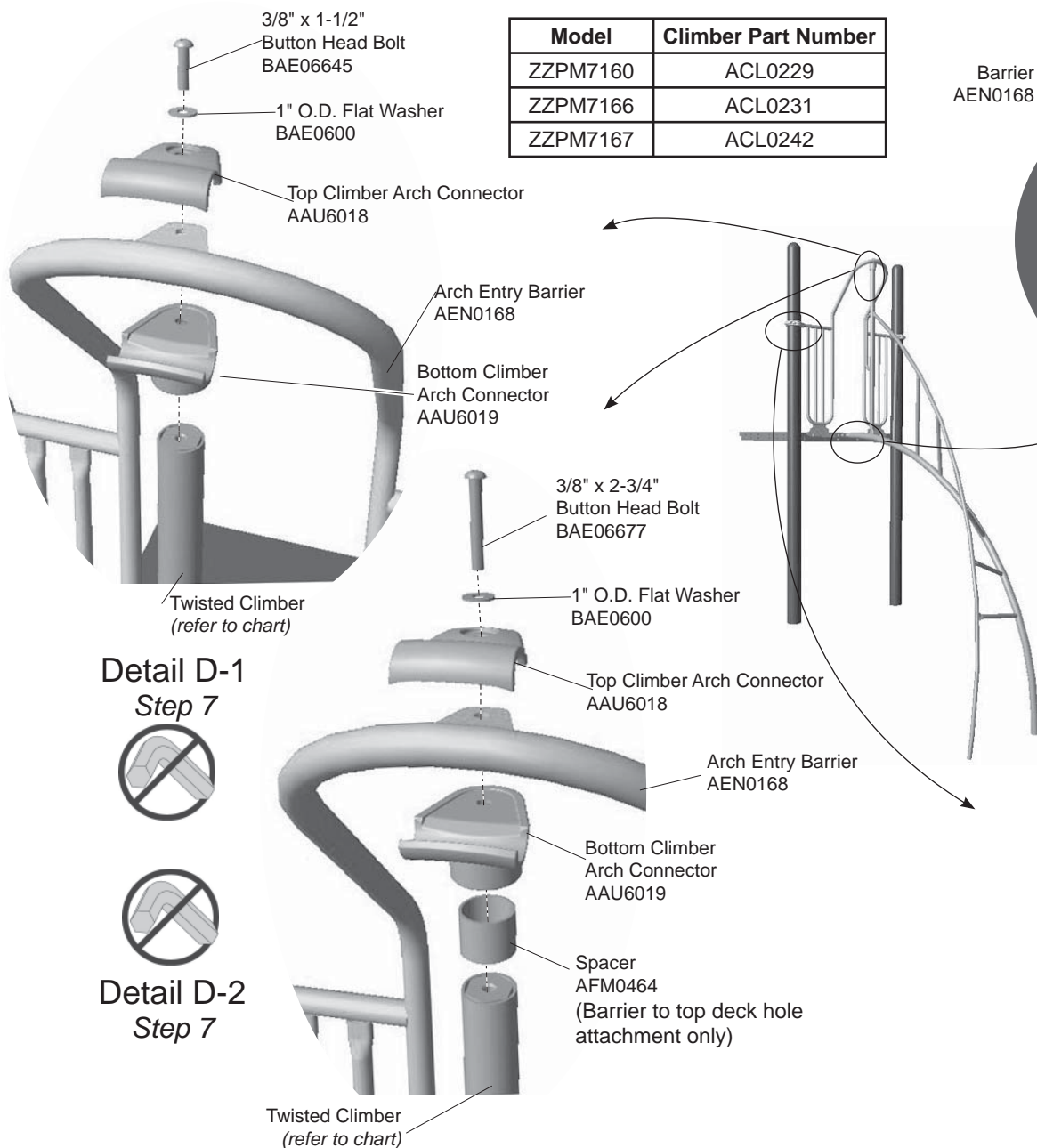
# Installation Instructions

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



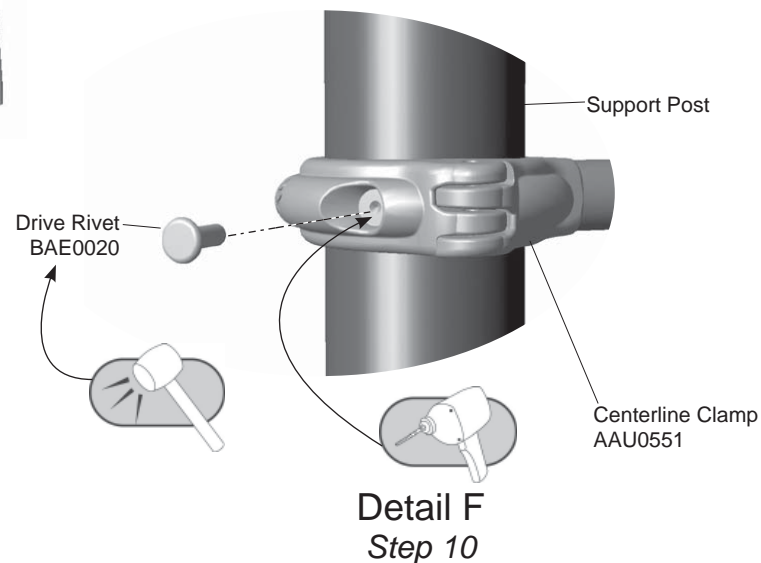
**Detail E**  
**Step 8**

**Important Note:** If attaching the barrier through the lower hole, the climber will attach to the upper deck hole with a 1" bolt (BAE0664).

**Detail D-1**  
**Step 7**



**Detail D-2**  
**Step 7**



**Detail F**  
**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 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 (BAE0664).

**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.

## PM7160 - 6 ft. (1829 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
ACL0229	CLIMBER - 6' 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" TPR 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

## PM7167 - 8 ft. (2438 mm) TWISTED CLIMBER

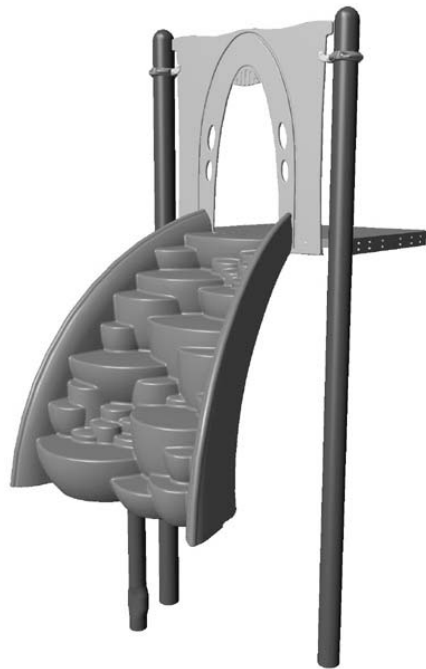
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0242	CLIMBER - 8' TWISTED	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAD0085	THREAD LOCKING ADHESIVE	1
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" TPR 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

## 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" TPR 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

## Installation Instructions Playmakers® Model PM7439 Rock Climber To Deck

### Installation Preparation

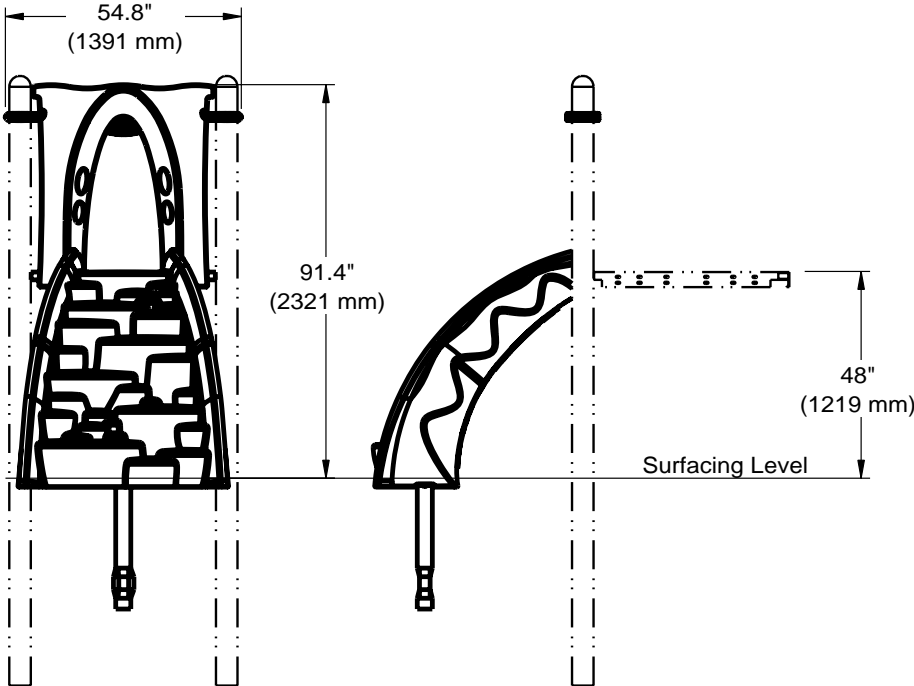
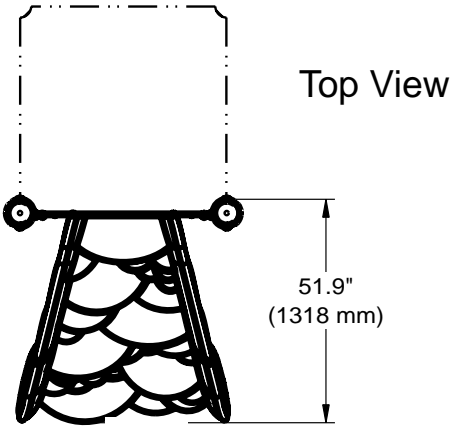
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 2 man-hours  
 Weight: ..... 153.5 lbs. (69,8 kg)  
 Concrete Required: ..... 0.03 cubic yard (0,02 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

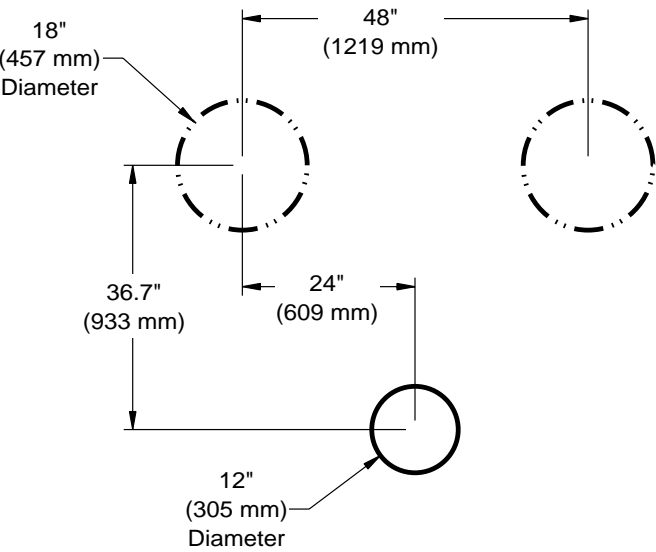
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



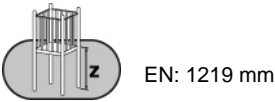
# Installation Instructions



Elevation Views



Footings Diagram

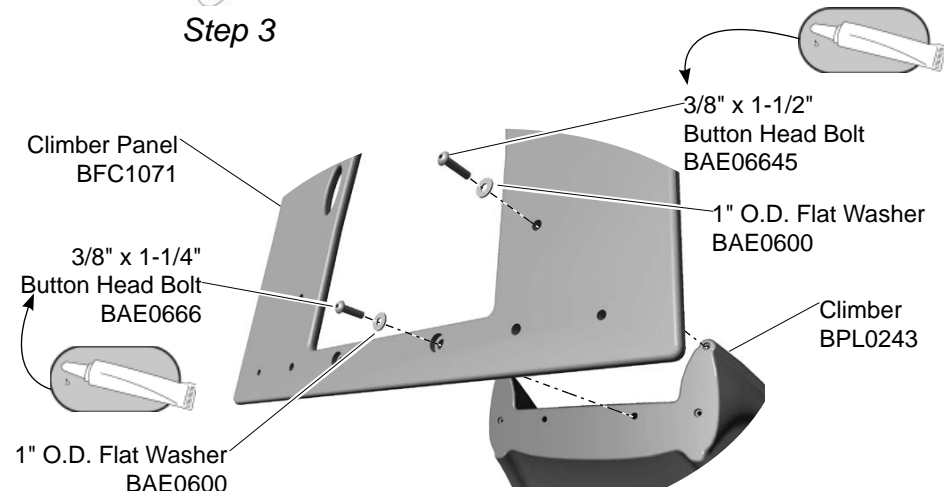


# Installation Instructions

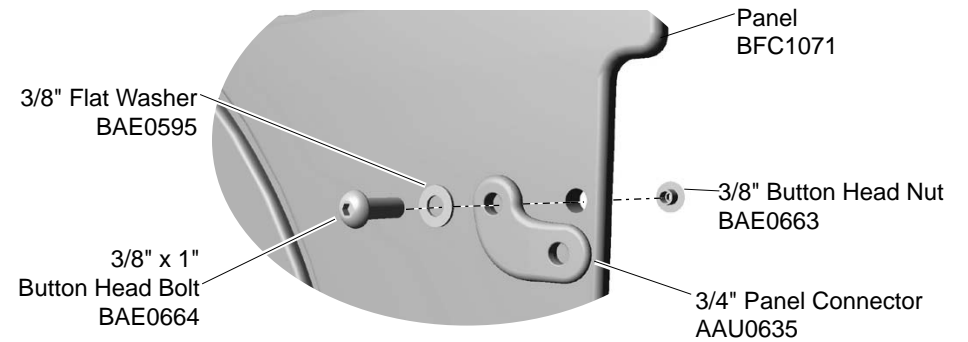
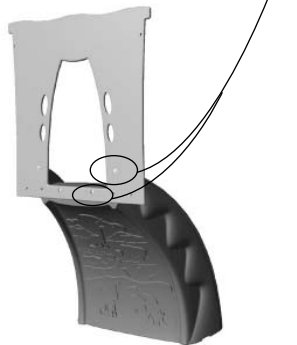
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



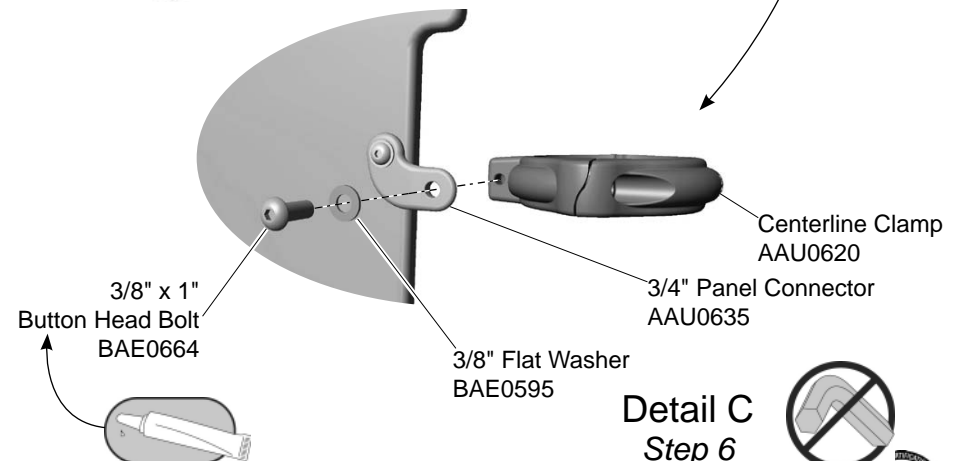
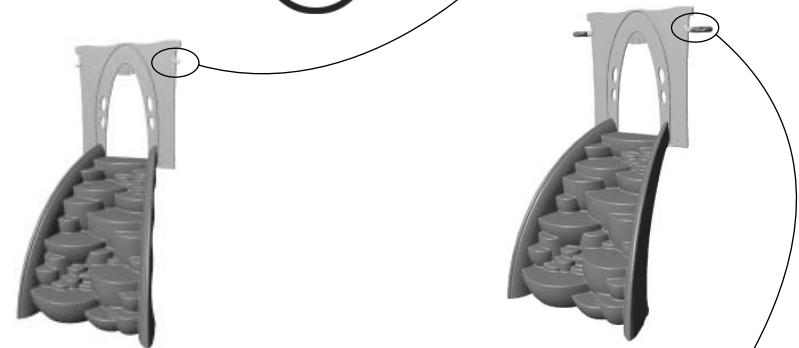
Step 3



Detail A  
Step 4



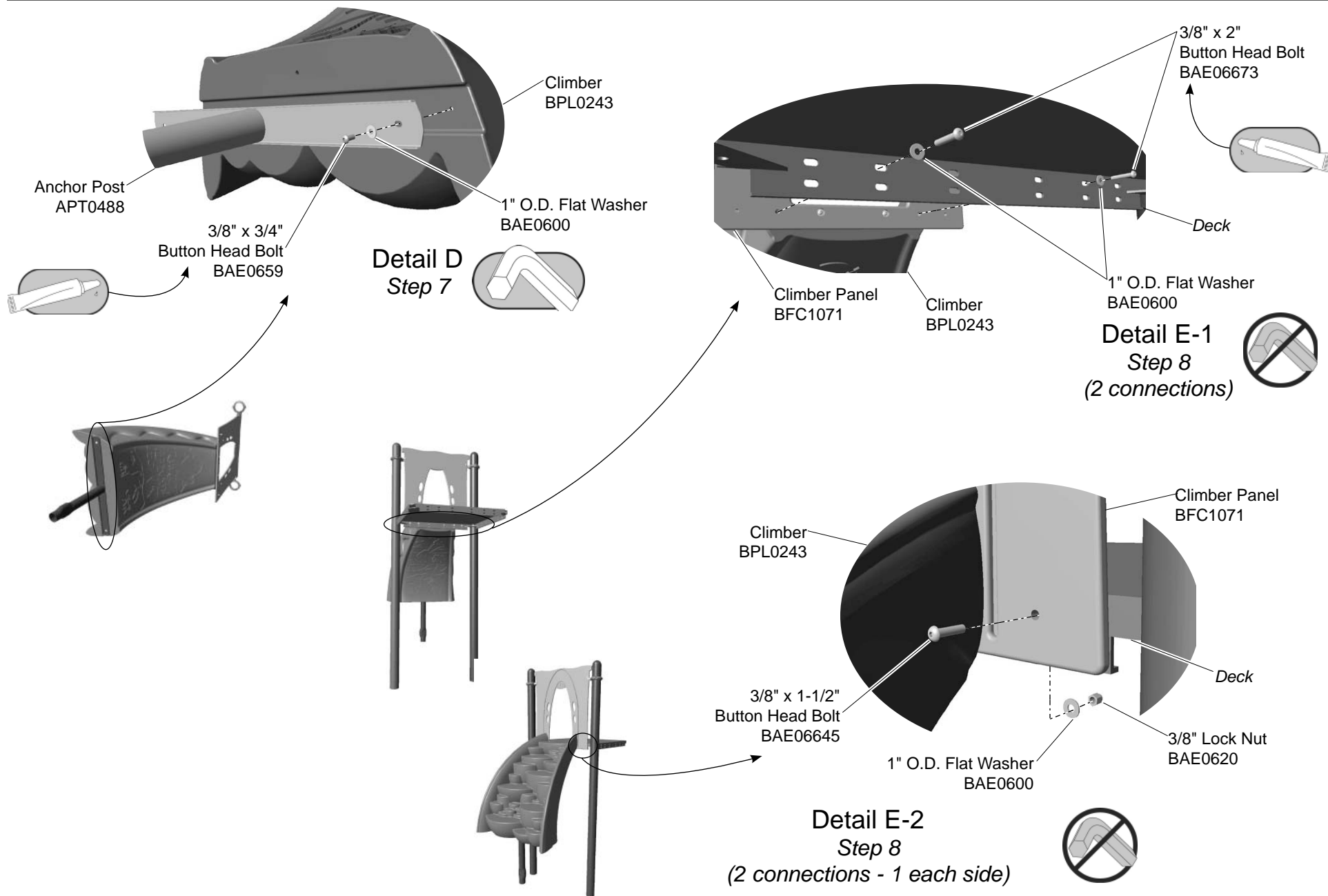
Detail B  
Step 5



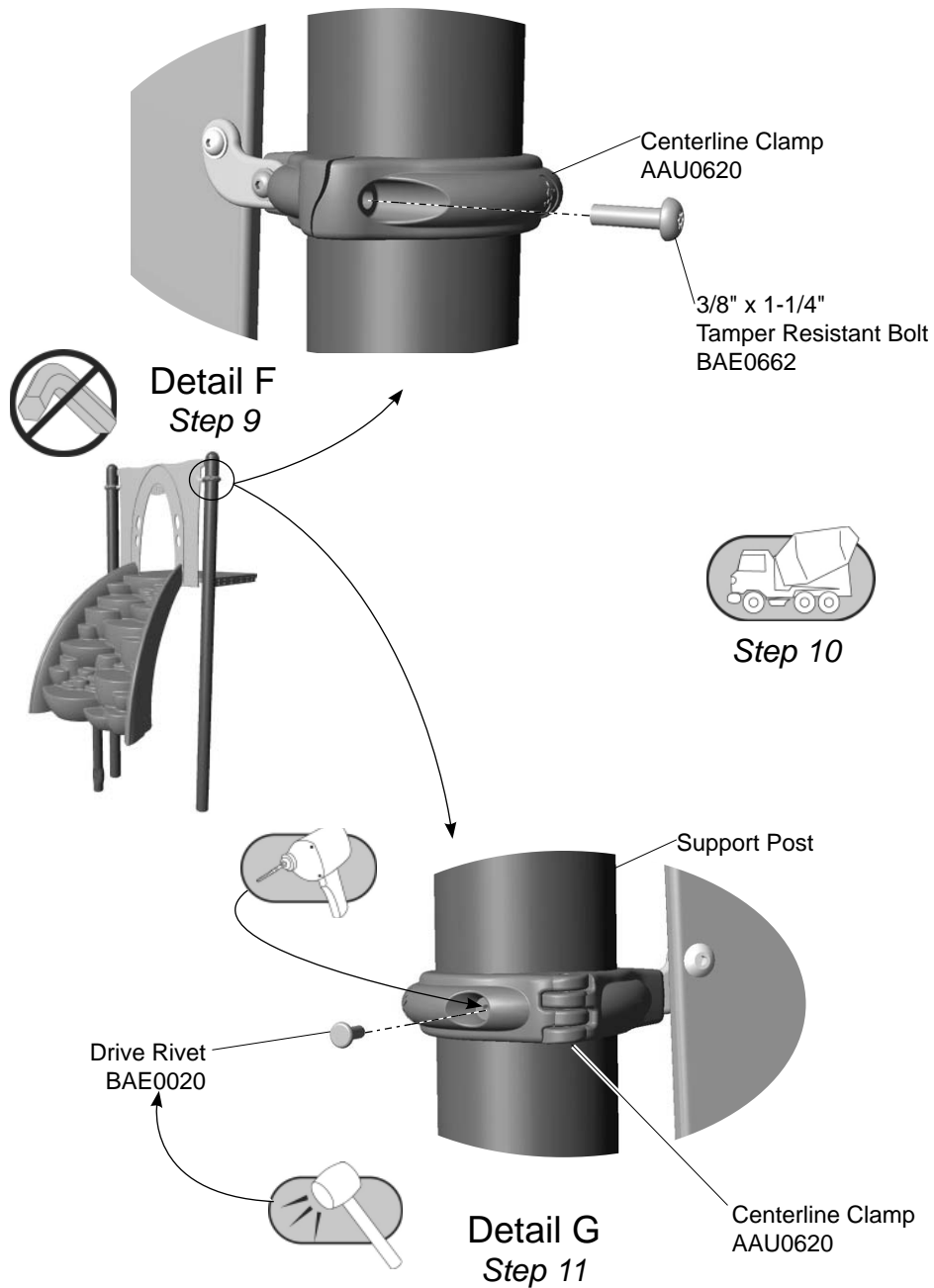
Detail C  
Step 6



# Installation Instructions



# Installation Instructions



# 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" TPR 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 models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	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

### 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)

### Installation Preparation

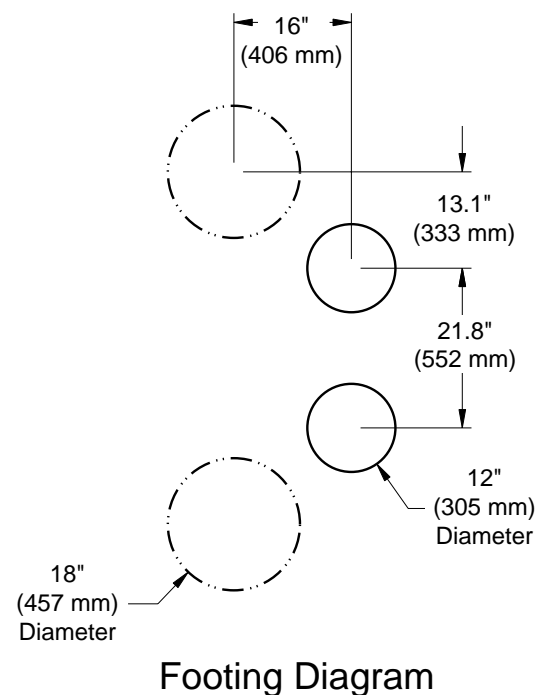
Recommended Crew: ..... One (1) adult  
 Installation Time: ..... 1.5 hours  
 Weight: ..... See table at lower left  
 Concrete Required: ..... 0.06 cubic yard (0,5 cubic meters)  
 Use Zone: ..... Refer to Use Zone on Master Drawing  
 User Group Age (years): ..... 36"-48": ASTM/CSA: 2-12, EN: 2-14  
 ..... 60"-72": ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

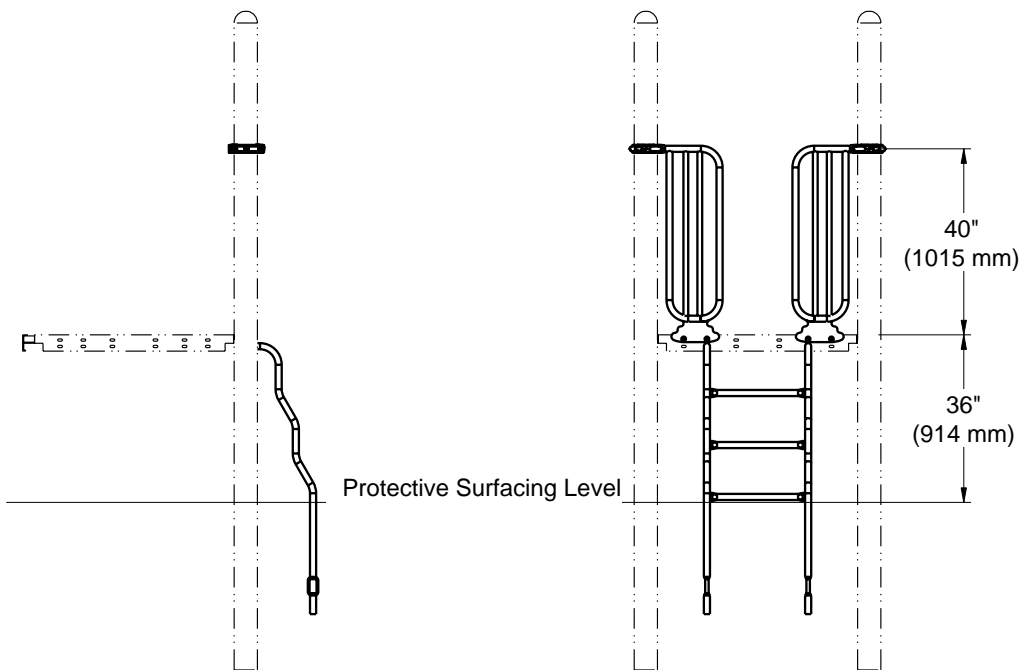
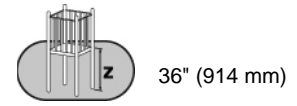
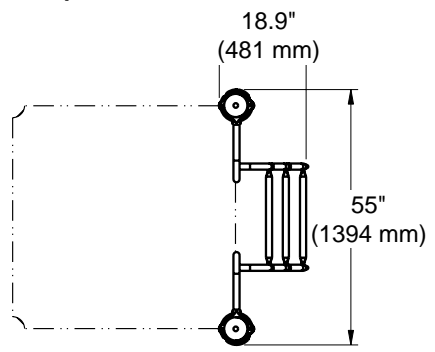
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



# Installation Instructions



Top View

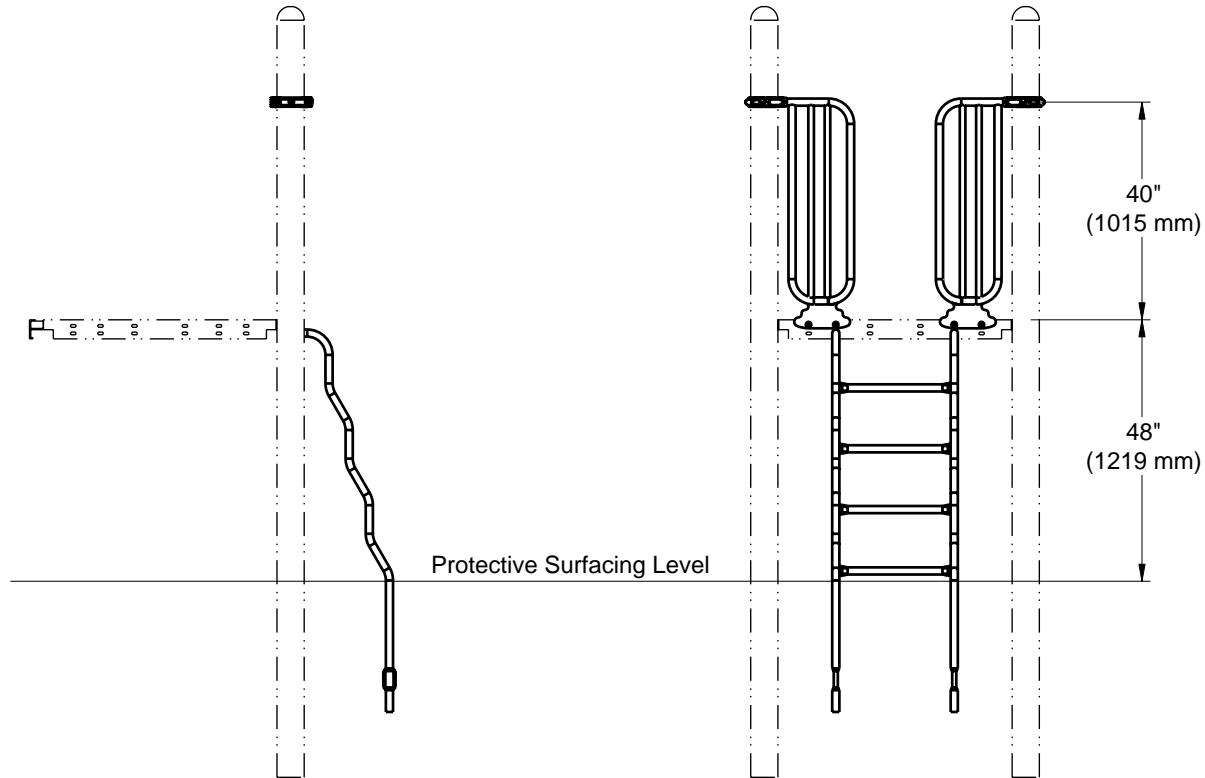
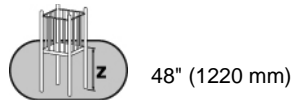
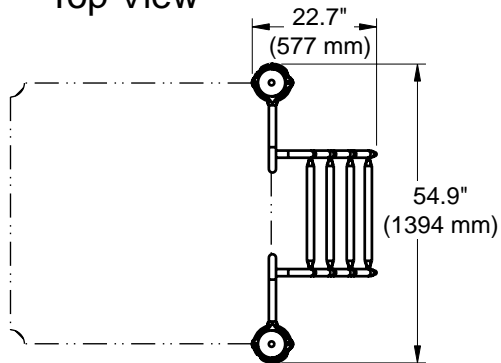


Elevation View  
36" (914 mm) Deck

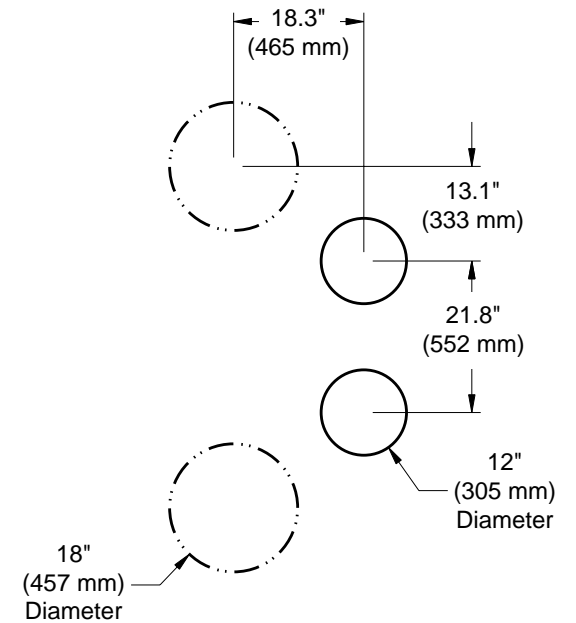


# Installation Instructions

Top View



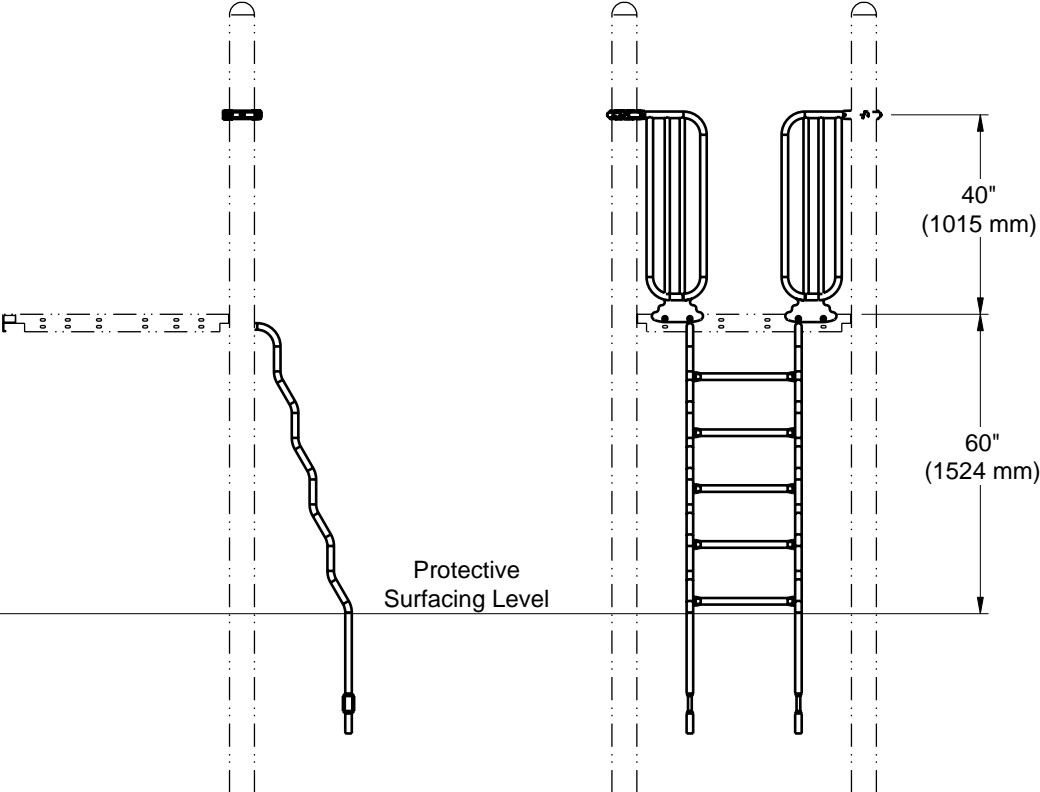
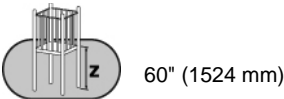
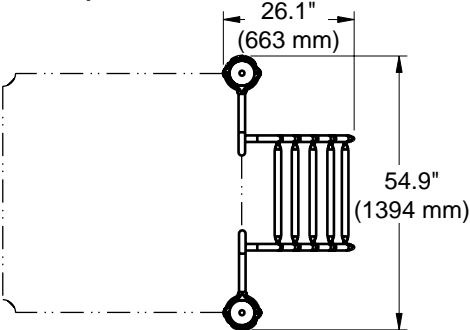
Elevation View  
48" (1219 mm) Deck



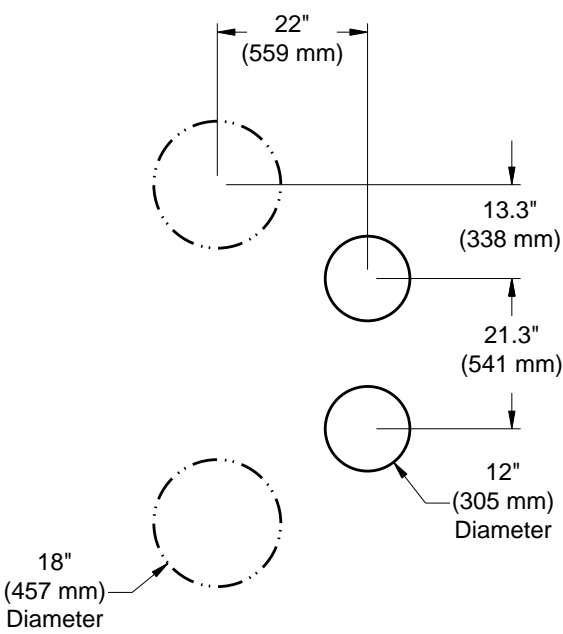
Footing Diagram

# Installation Instructions

Top View



Elevation View  
60" (1524 mm) Deck

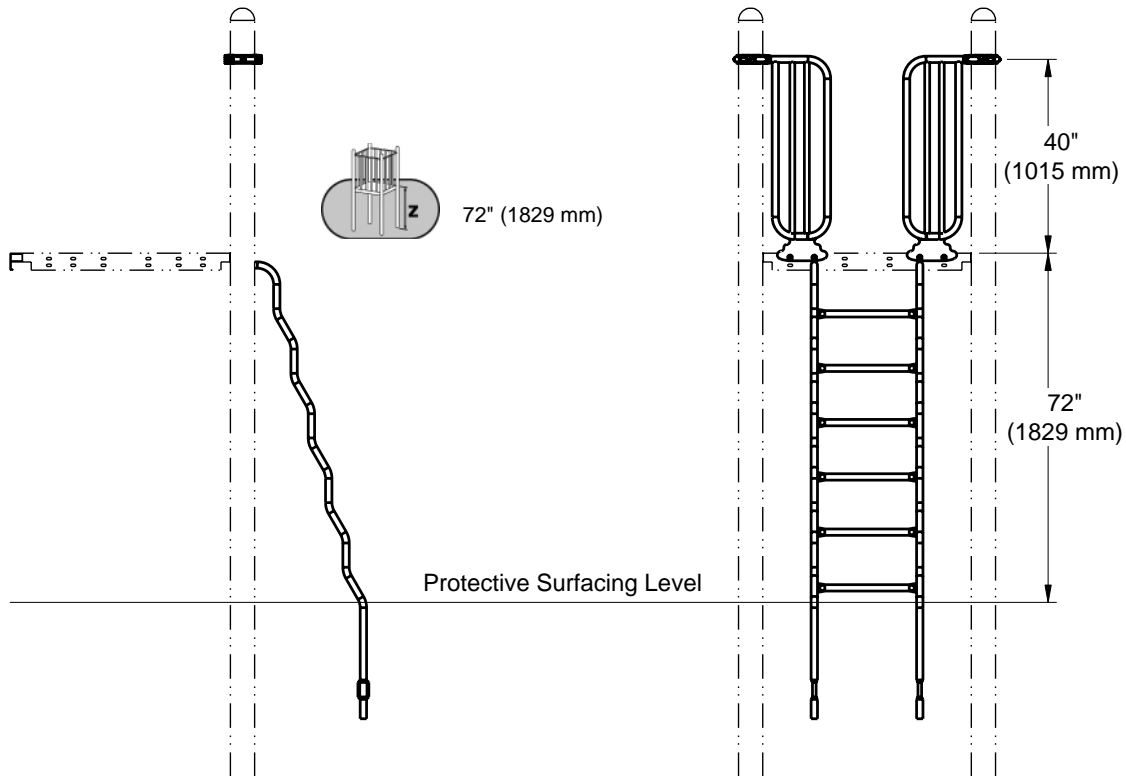
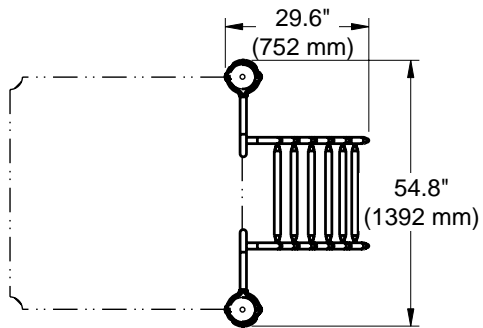


Footing Diagram

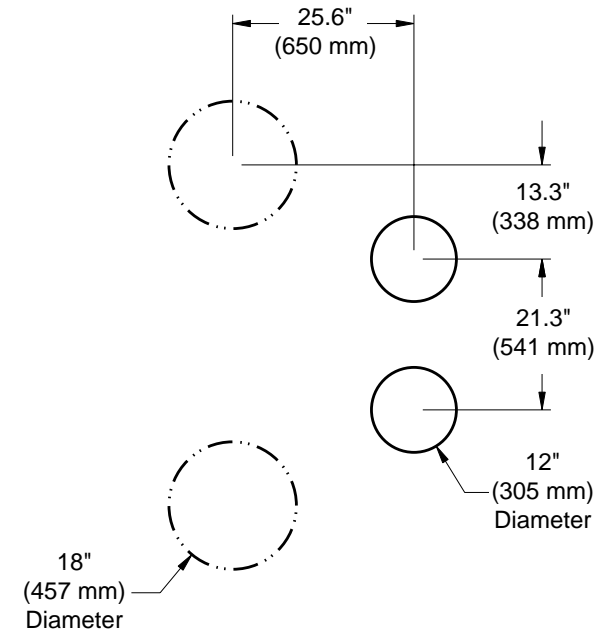


# Installation Instructions

## Top View



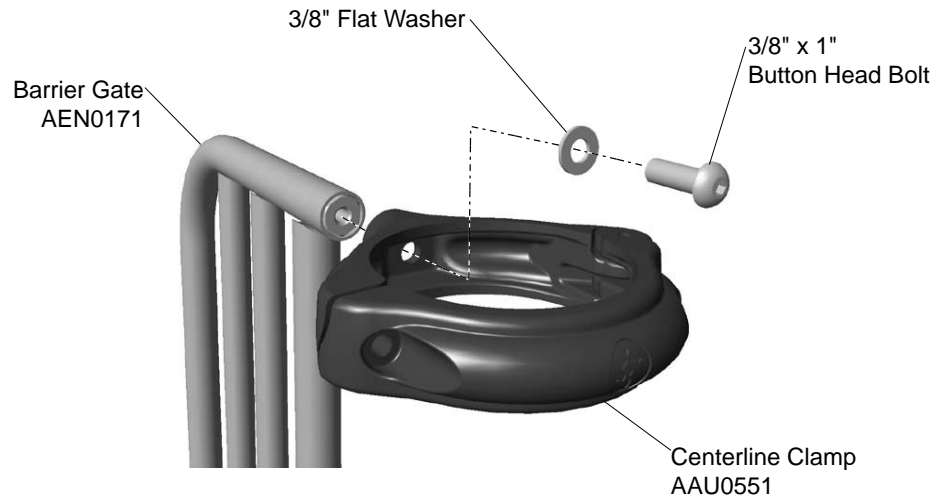
## Elevation View 72" (1829 mm) Deck



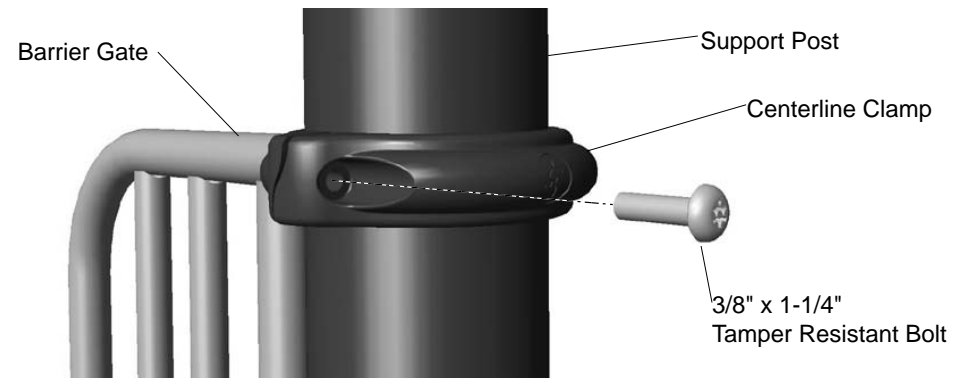
## Footing Diagram

# Installation Instructions

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

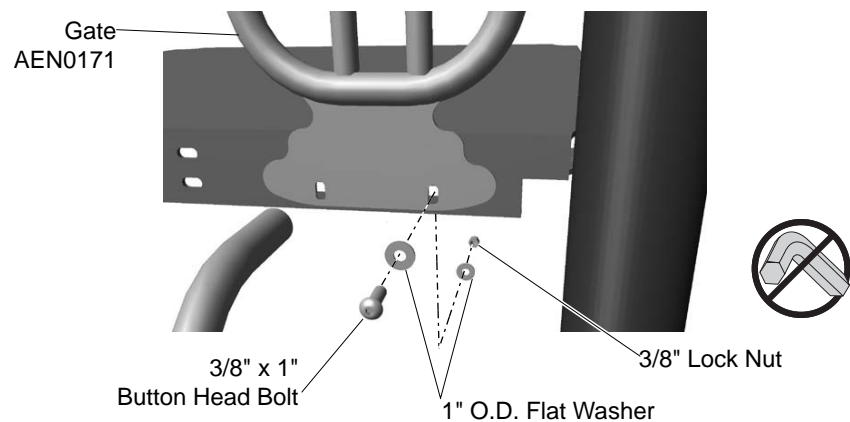


Detail A  
Step 5

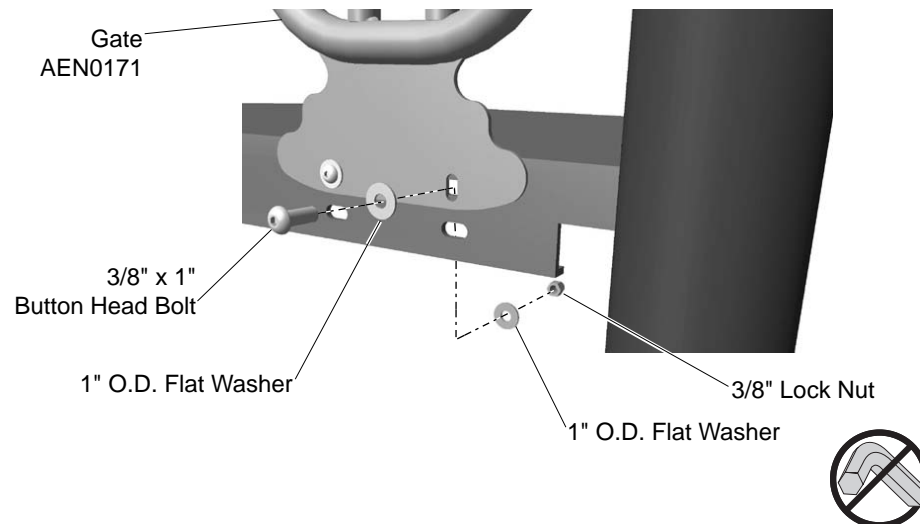


Detail B  
Step 6

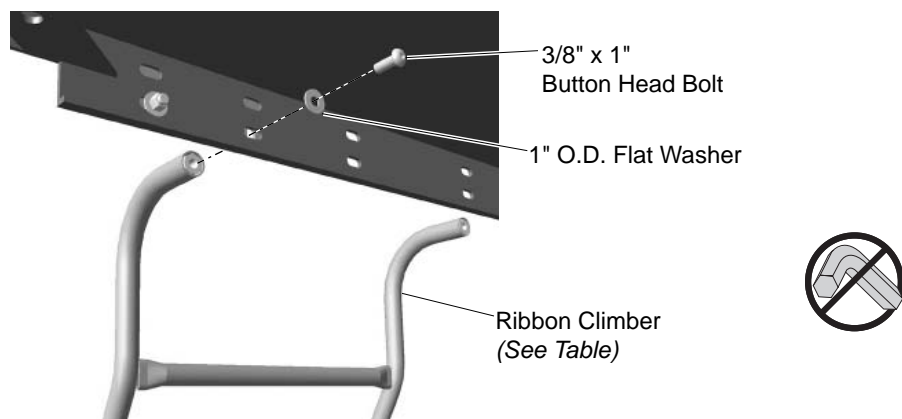
# Installation Instructions



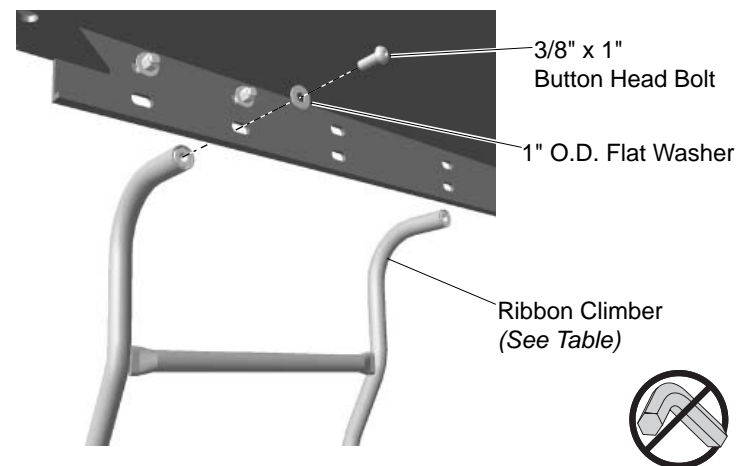
Gates in lower position



Gates in upper position

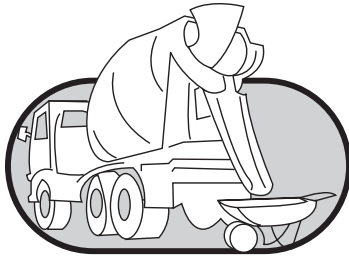


**Detail C**  
**Step 7**

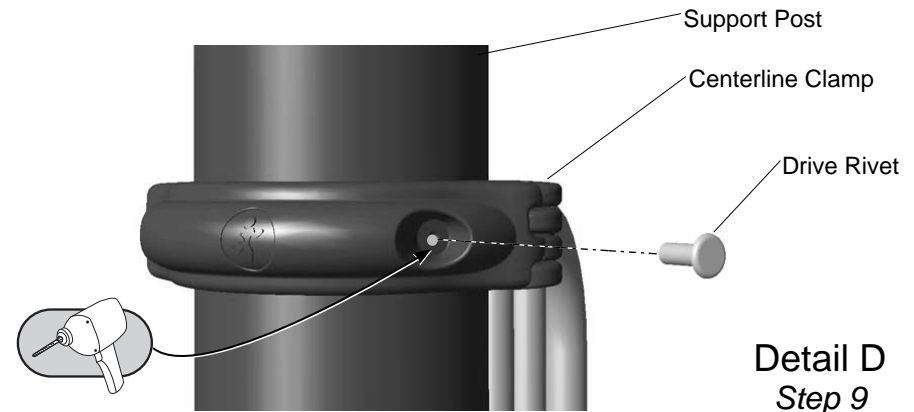


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

# Installation Instructions



*Step 8  
Pour Concrete*



*Detail D  
Step 9*

## 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 - 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

## 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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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

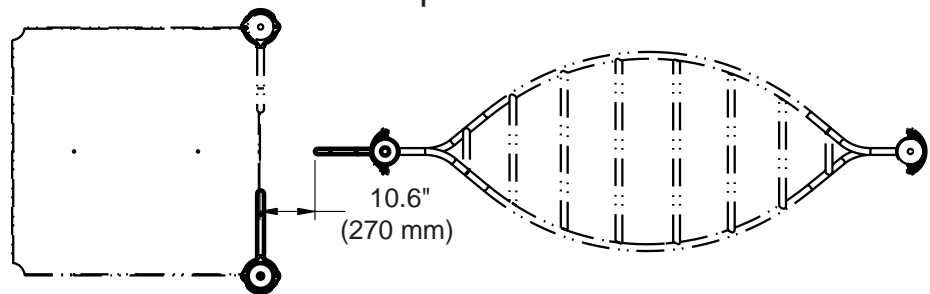
Recommended Crew: ..... One (1) adult  
Installation Time: ..... 0.5 man-hour  
Weight: ..... (refer to table)  
Concrete Required: ..... 0.13 cubic yard (0,10 cubic meters)  
Use Zone: ..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

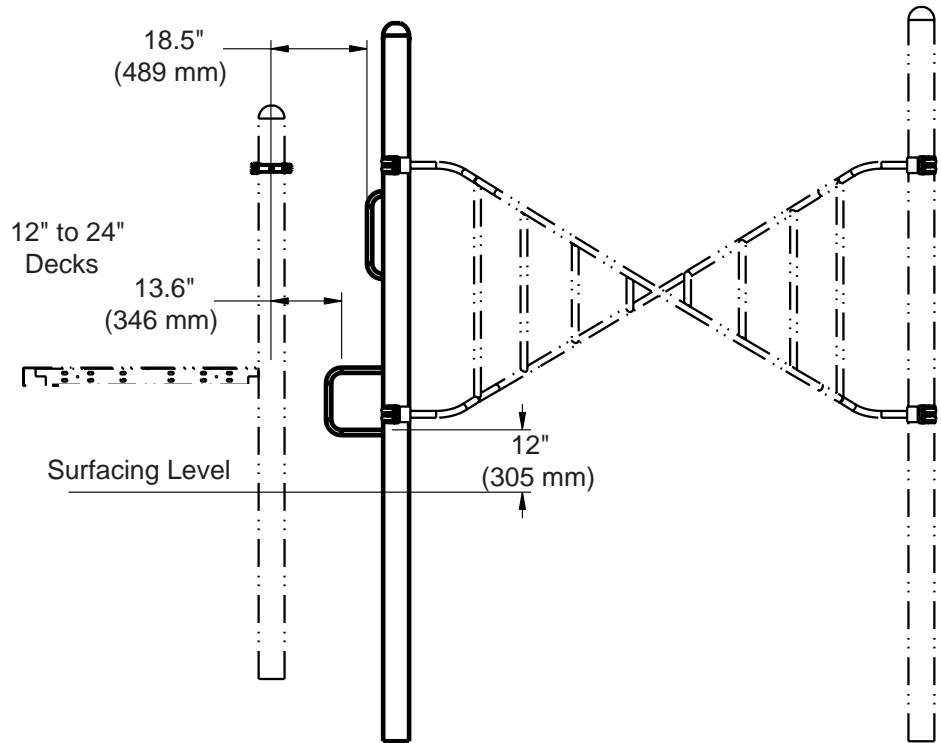
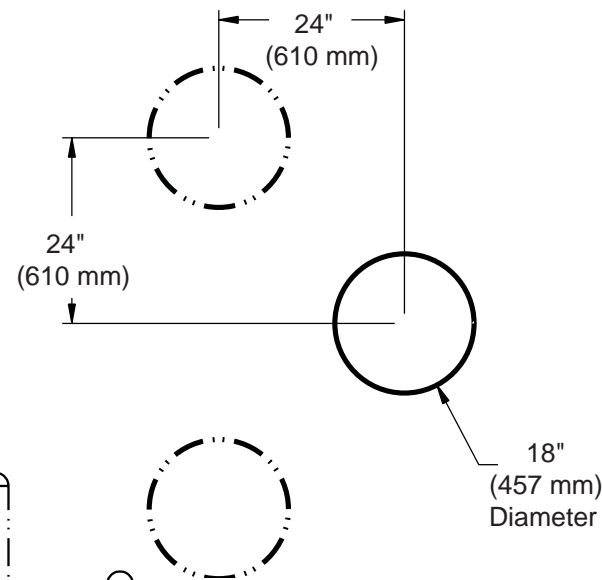
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

# Installation Instructions

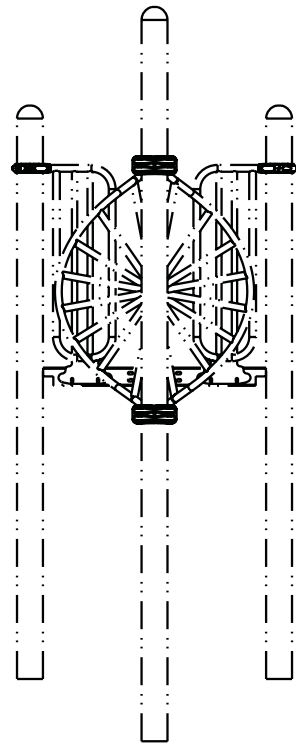
Top View



Footing Diagram



Elevation Views  
ZZPM0296

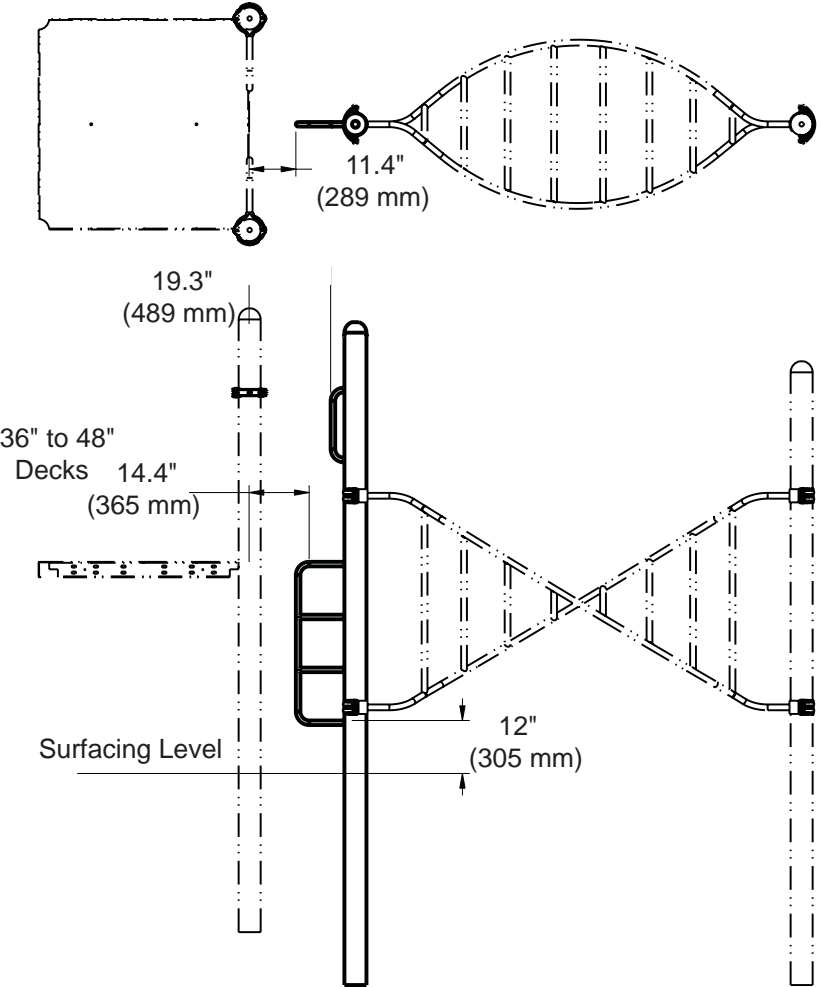


EN: 635 mm

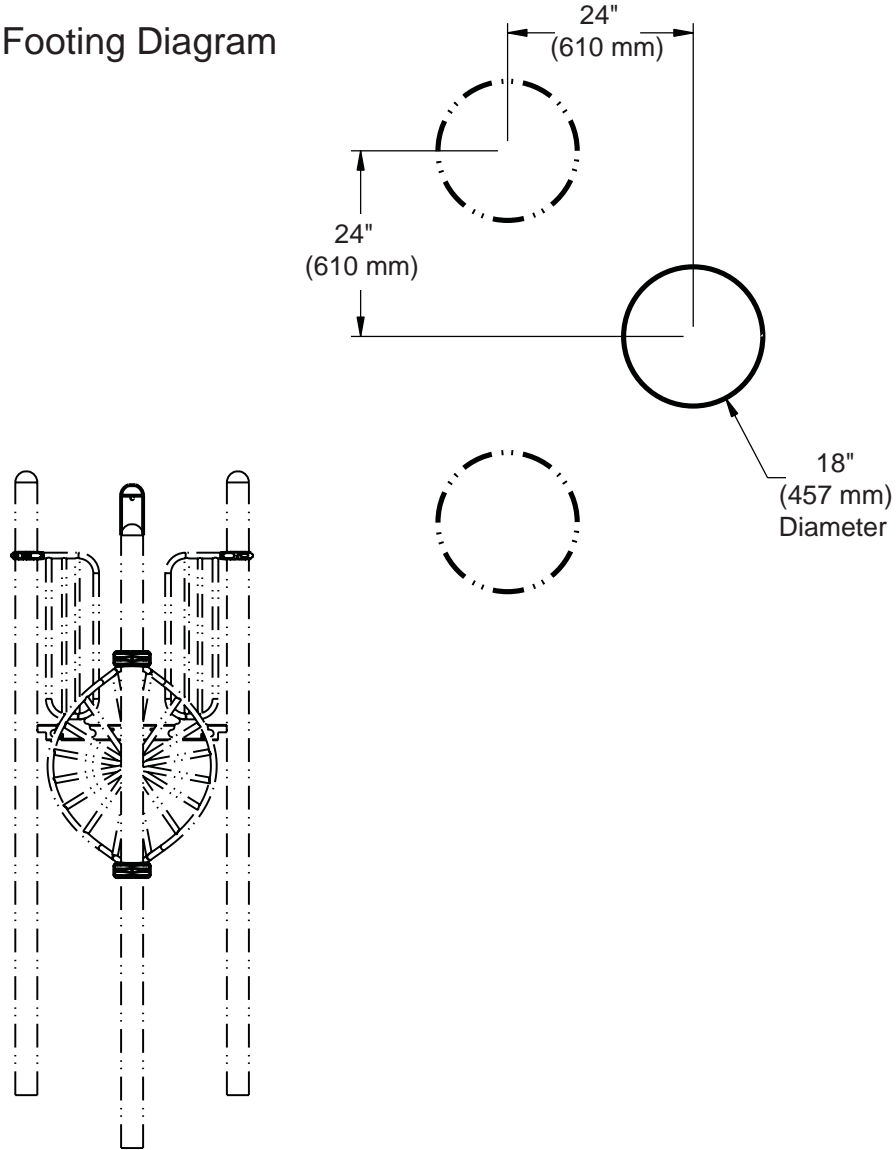


# Installation Instructions

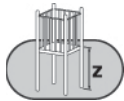
Top View



Footing Diagram



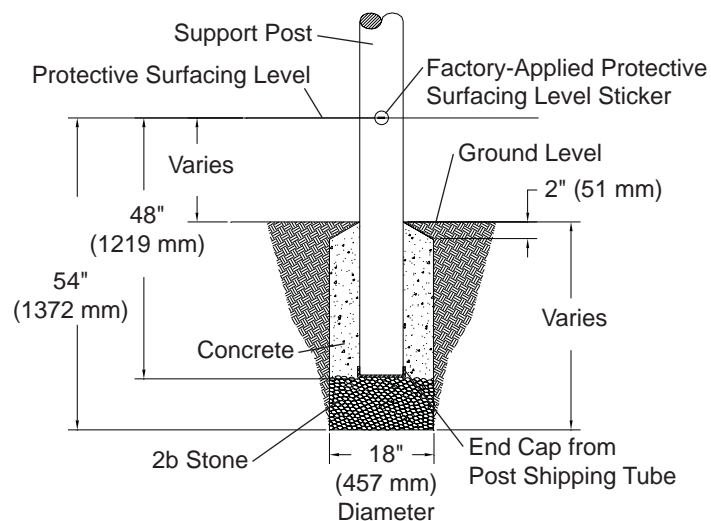
Elevation Views  
ZZPM0297



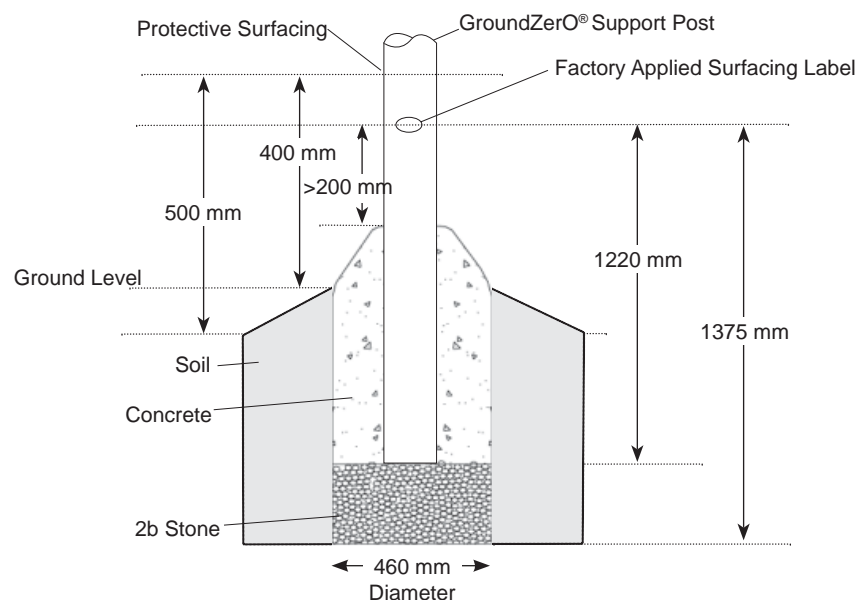
EN: 1219 mm



# Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



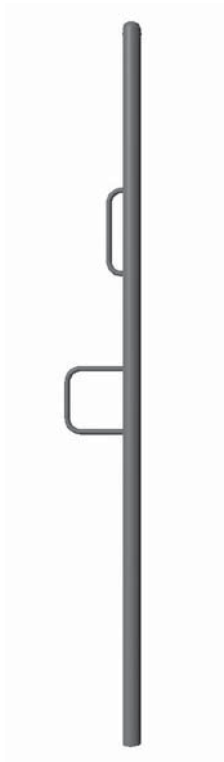
Footing Detail - GroundZero® Support Post (EN)

## 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.



Detail A  
Step 4



Step 3



Step 5

**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.

## PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

## PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

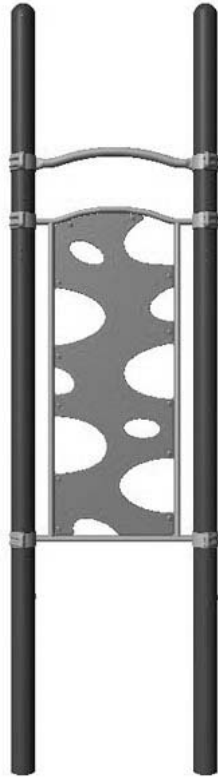
PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1



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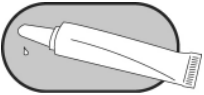

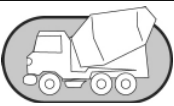
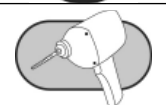

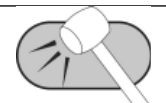
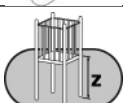


Assembly View

Installation Instructions  
Playmakers® Models PM8466  
The Crater Ladder

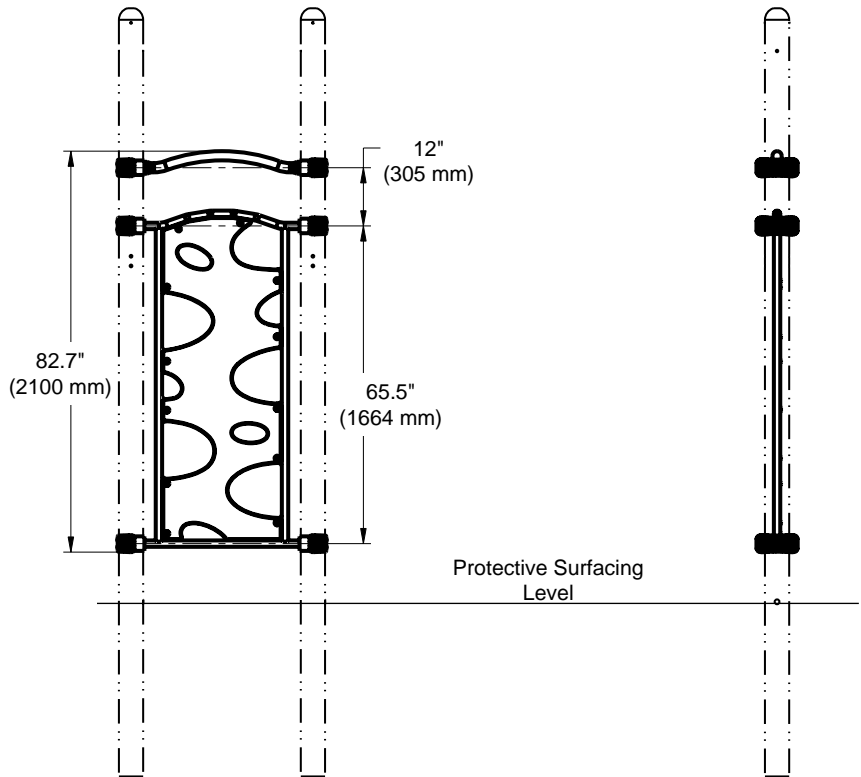
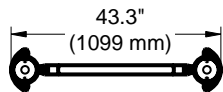
**Installation Preparation**

Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 installation-hour  
Weight: ..... 83.5 lbs. (38 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

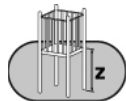
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

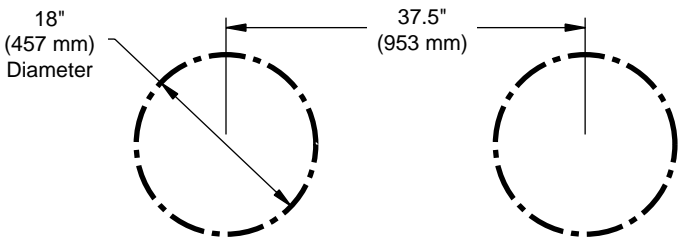
Top View



Elevation Views



EN: 1664 mm

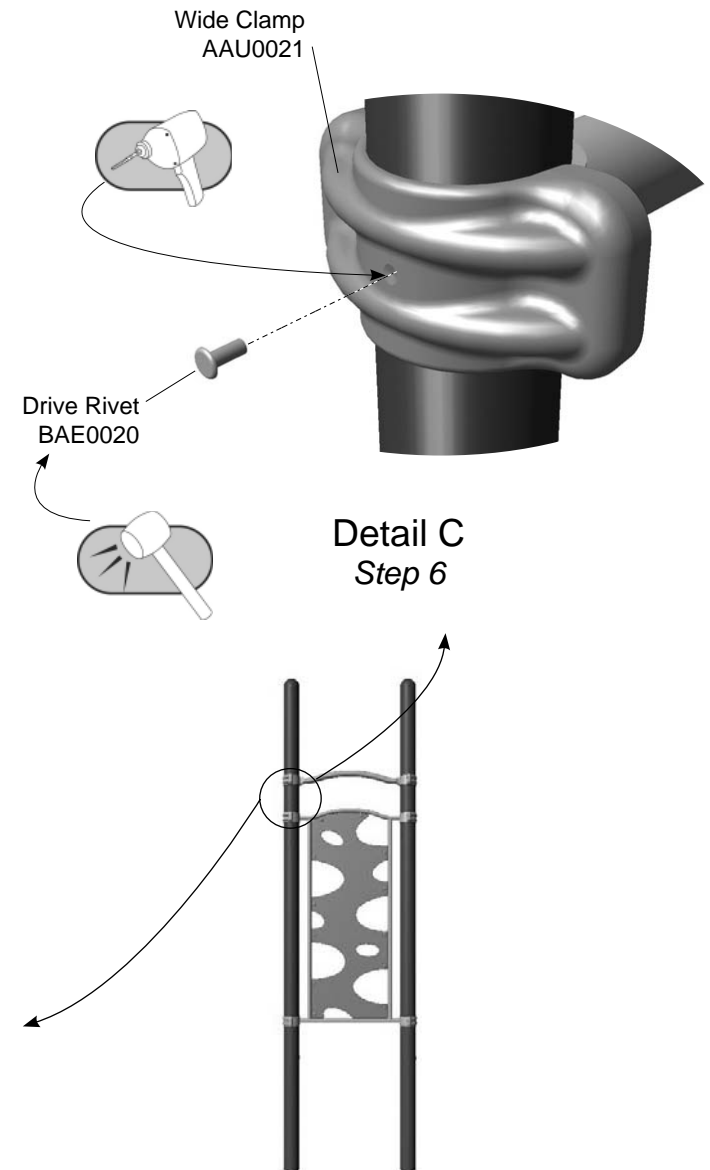
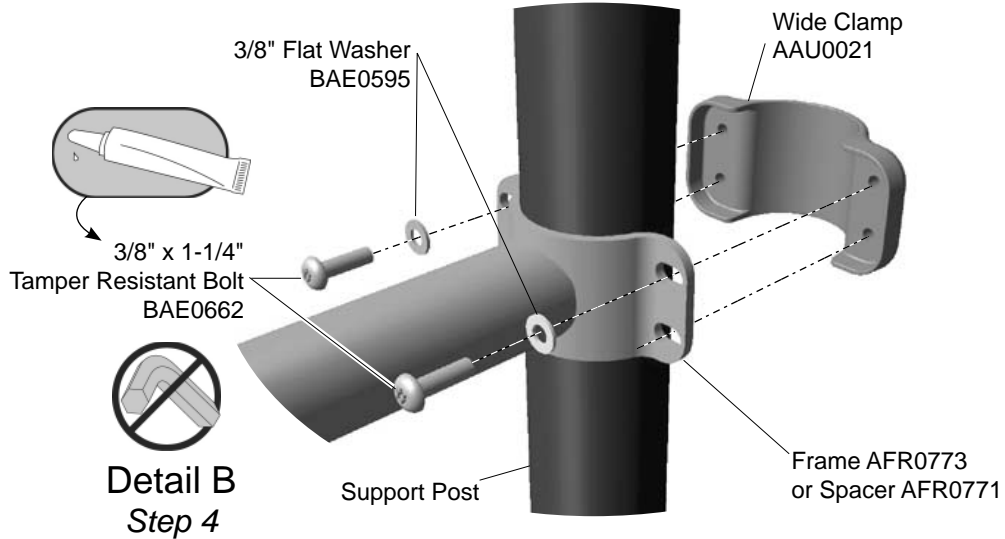
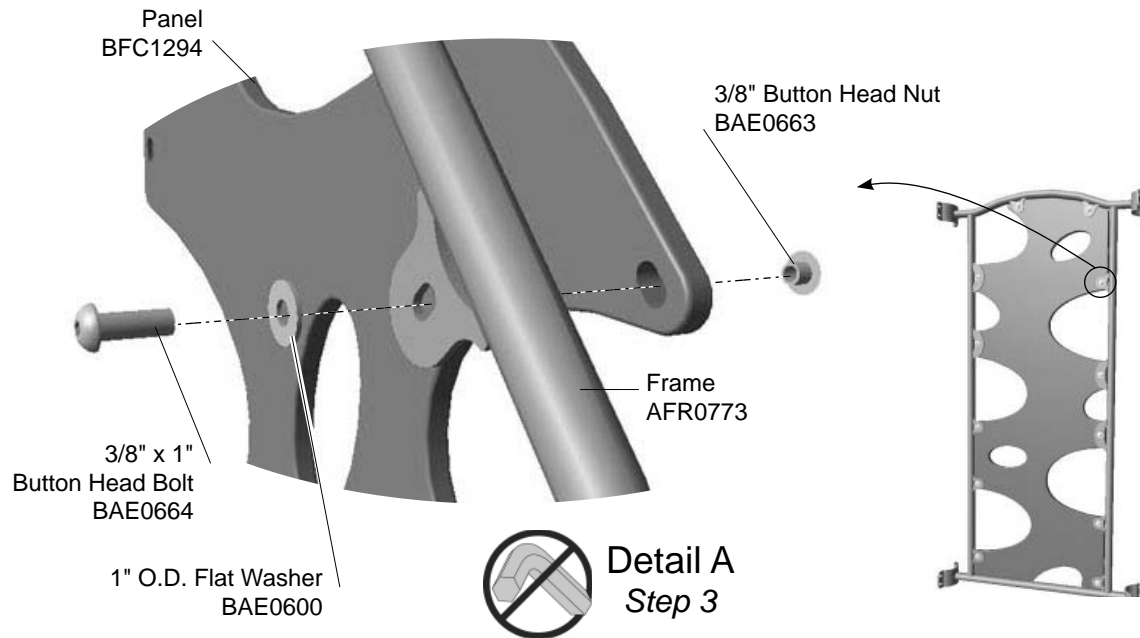


Footing Diagram



# 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 panels to the frame.**

**Step 3:** See **Detail A**. Select the frame, the panels, and the appropriate hardware. There are (12) twelve connections. Align the panel with the tabs on the frame. Attach as shown.

**Attach the frame and the spacer to the support posts.**

**Step 4:** See **Detail B**. Select the clamps, the handrail, and the appropriate hardware. There are (24) twenty-four connections. Place the frame at the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown. Place the spacer at the appropriate height above the frame. Attach as shown.

**Note:** After the structure is standing, make sure there is a consistent gap between the panel and the frame. When a consistent gap is achieved fully tighten the panel.

**Final Details.**

**Step 5:** Plumb and level the component. Ensure component is at the heights specified in the **Elevation Views**. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

**Torque specifications** - Nuts and Bolts: Snug tighten and 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.

## PM8466 - THE CRATER LADDER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	6
AFR0771	FRAME - 37.24" x 7.81" x 4.91" - (PM)	1
AFR0773	FRAME - 70.16" x 37.24" x 7.81" w/TABS (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	24
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BFC1294	SHEET - 66.48" x 24.44" x .75"	1



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## SUPERVISION INSTRUCTIONS

# PLAYWORLD SYSTEMS® THE SKY LINK & THE SKY ARCH

### **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

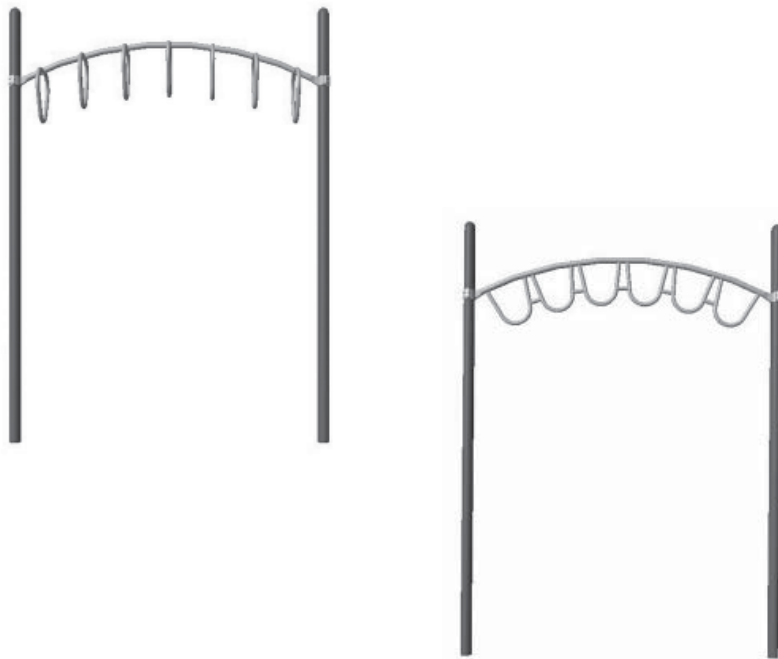


Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet





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 Instructions

### Playmakers® Models PM8450 & PM8456

#### The Sky Link & The Sky Arch

### Installation Preparation

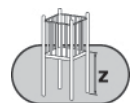
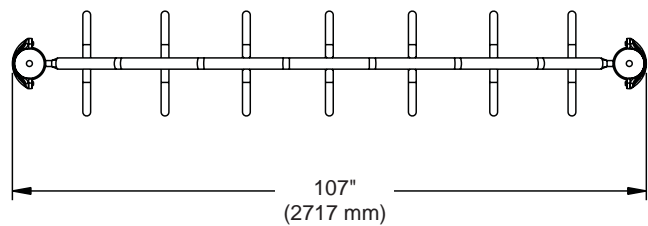
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 0.5 installation-hours  
 Weight: ..... (refer to table)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

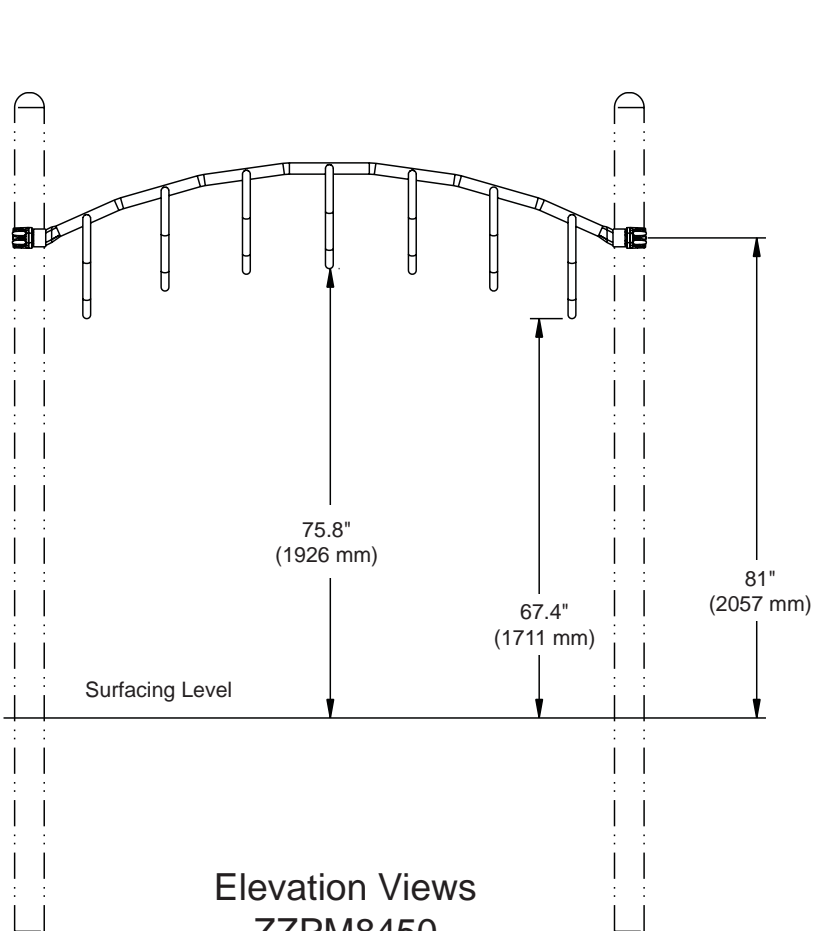
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

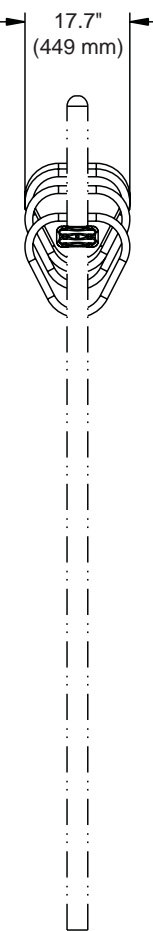
Top View



EN: 1926 mm



Elevation Views  
ZZPM8450



18"  
(457 mm)  
Diameter

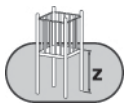
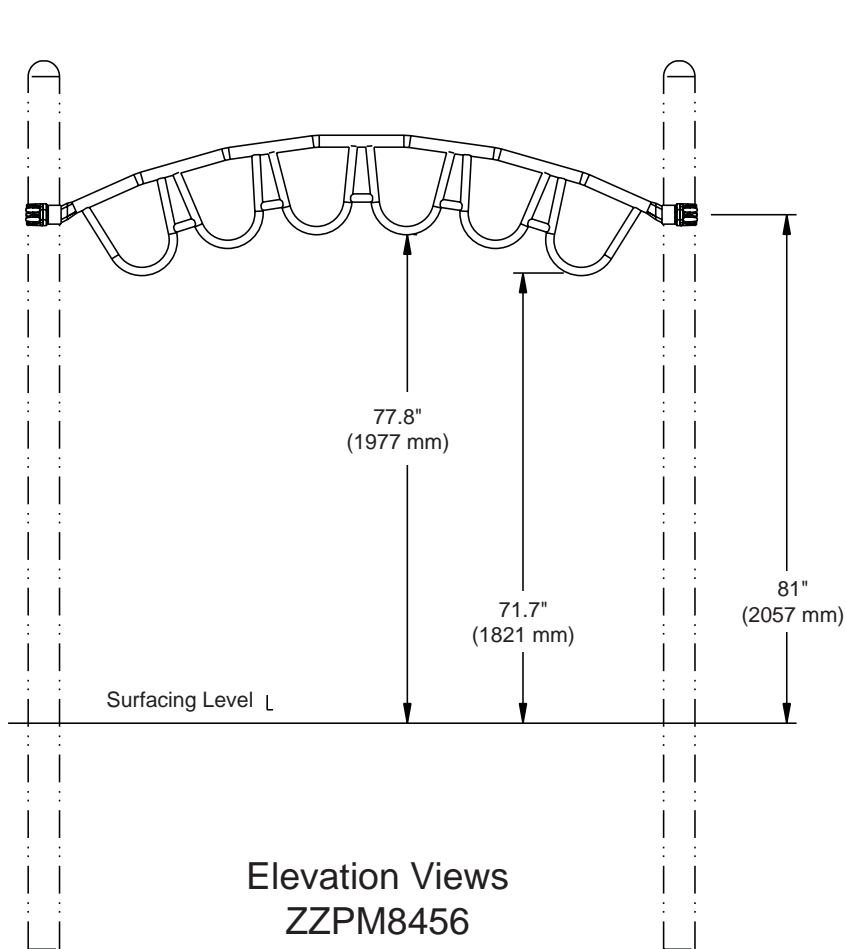
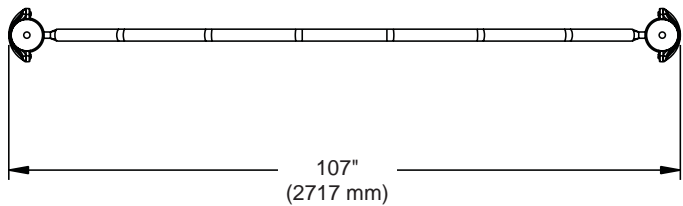
101.2"  
(2571 mm)

Footing Diagram  
Both Models



# Installation Instructions

Top View

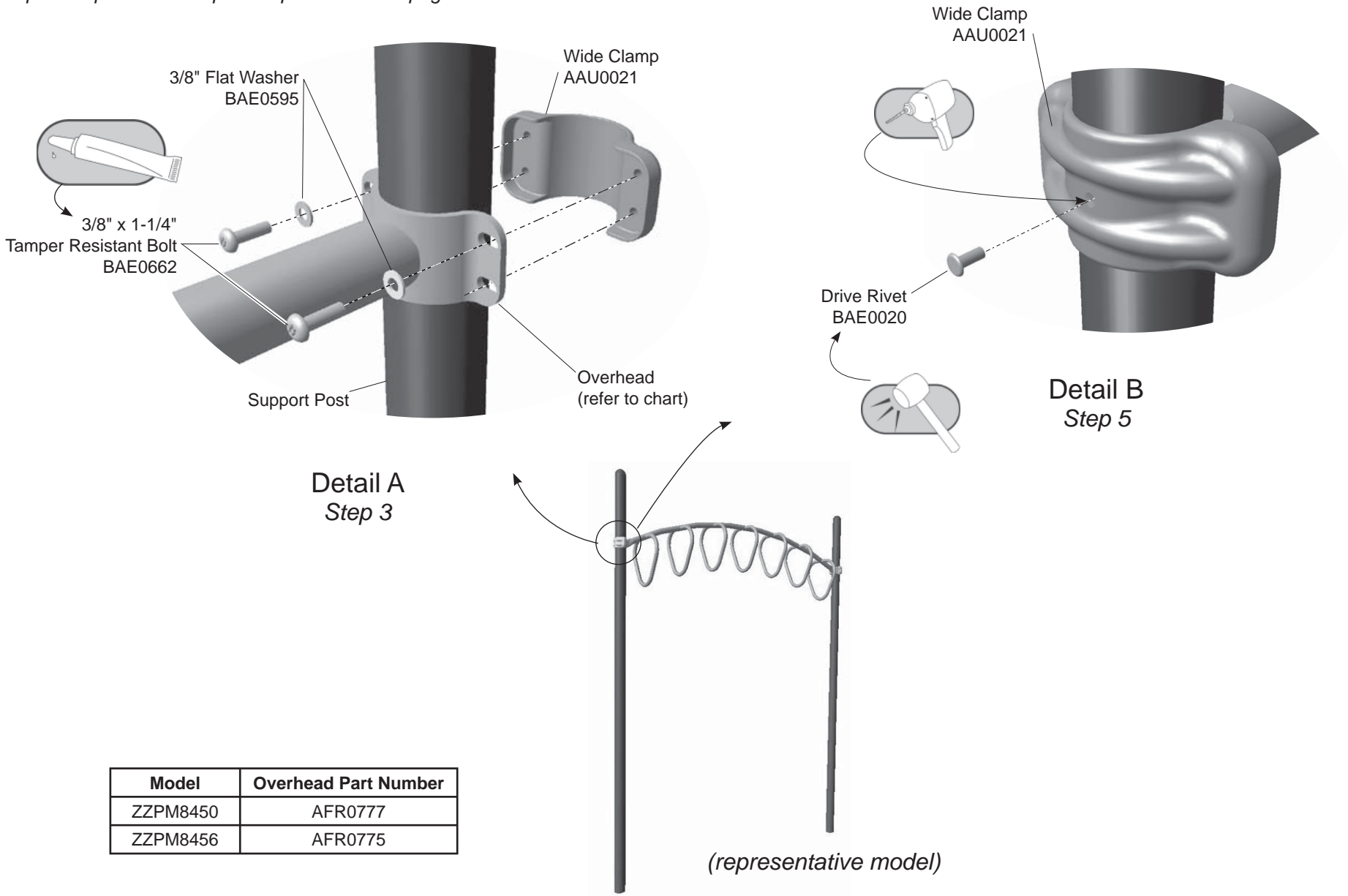


EN: 1977 mm



# Installation Instructions

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



Model	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" TPR RESISTANT w/TORX DRIVE	8

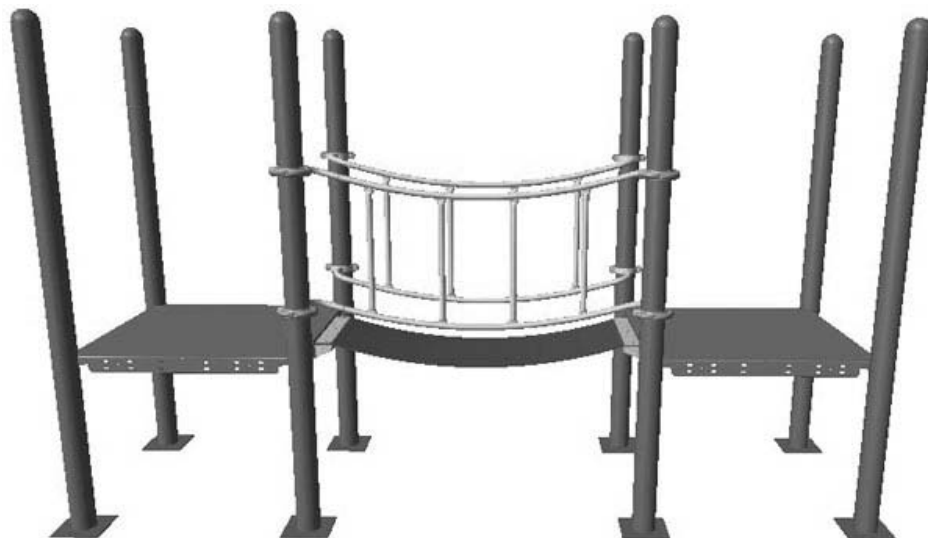
## PM8456 - THE SKY ARCH

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" TPR RESISTANT w/TORX DRIVE	8



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Assembly View (representative model)

## Installation Instructions

### Playmakers® Models PM8480 and PM8486

6 ft. (1829 mm) and 10 ft. (3048 mm)

### Ripple Bridge

#### Installation Preparation

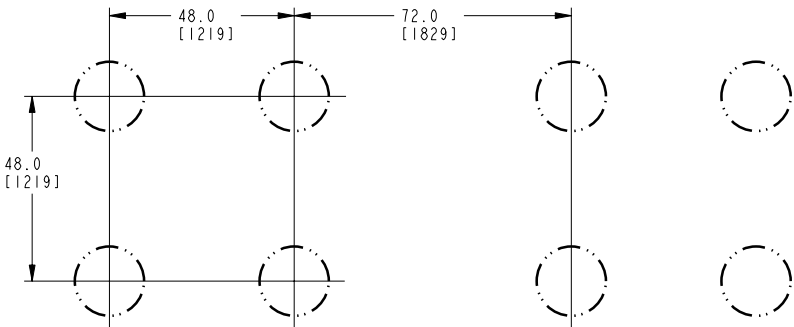
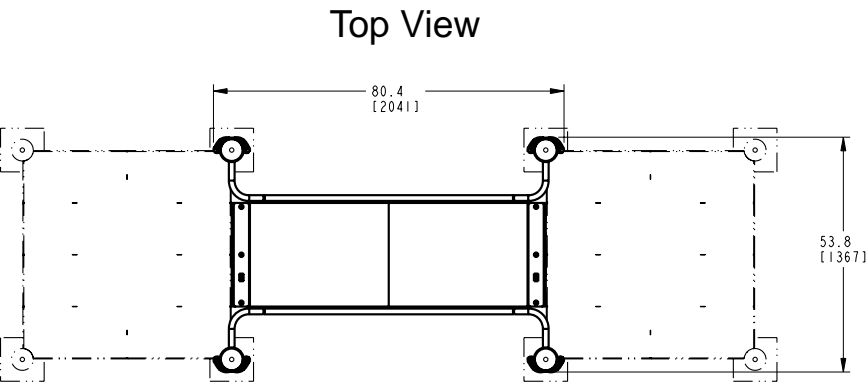
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 2 man-hours  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

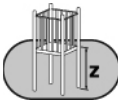
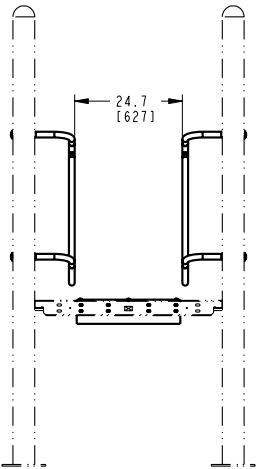
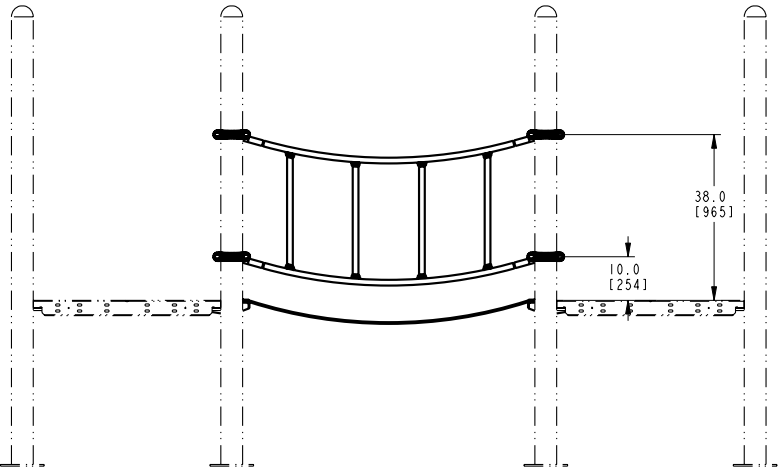


# Installation Instructions

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



Footing Diagram



Equal to the height of the deck.

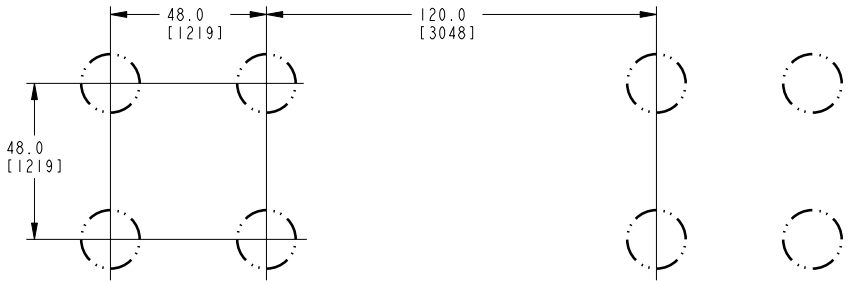
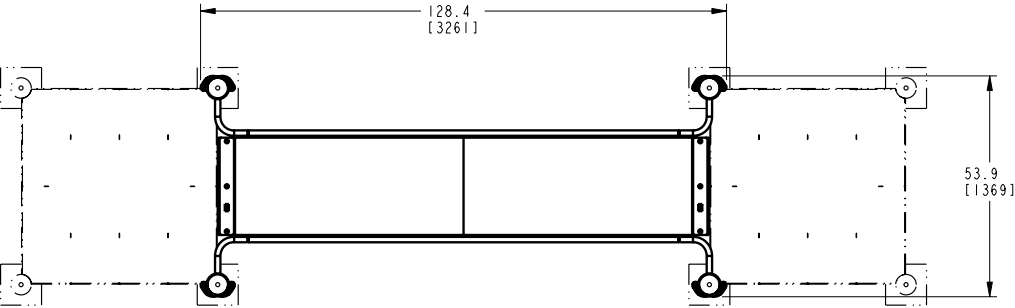
Elevation Views  
PM8480



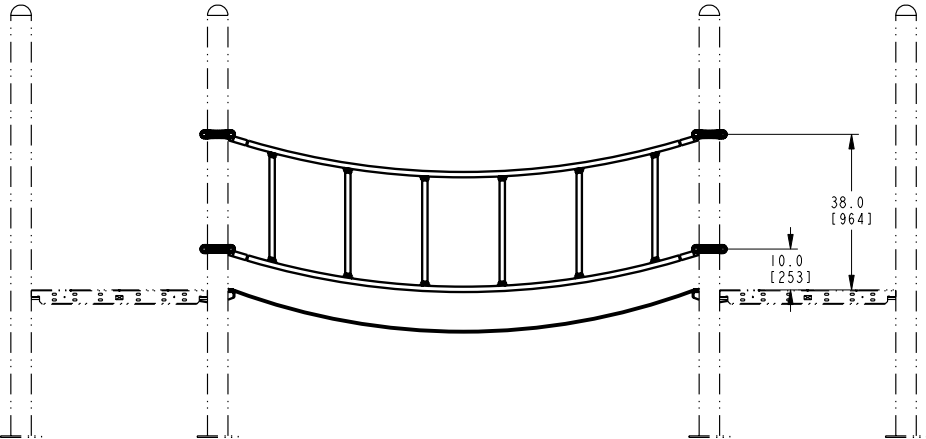
# Installation Instructions

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

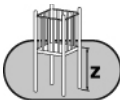
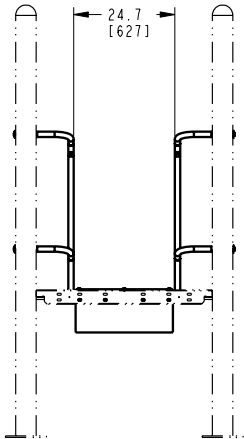
Top View



Footing Diagram



Elevation Views  
PM8486

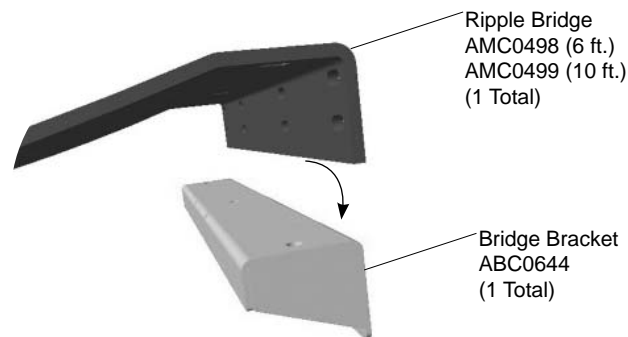


Equal to the height of the deck.



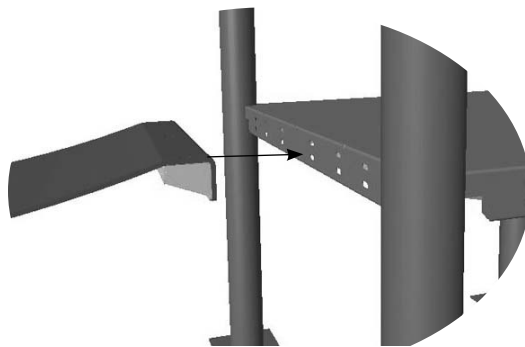
# Installation Instructions

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



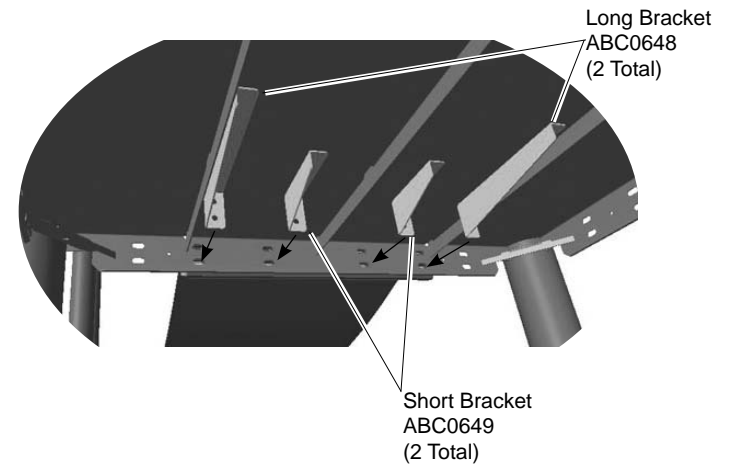
## Detail A-1

*Fold one end of the bridge down over the bracket and align the holes.*



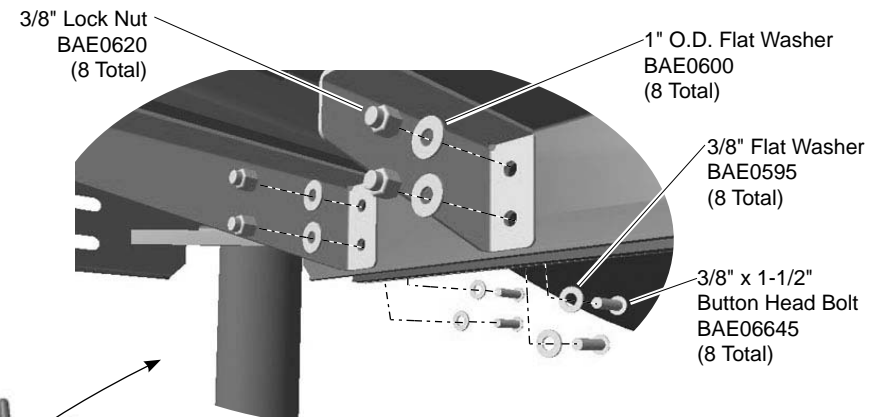
## Detail A-2

*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

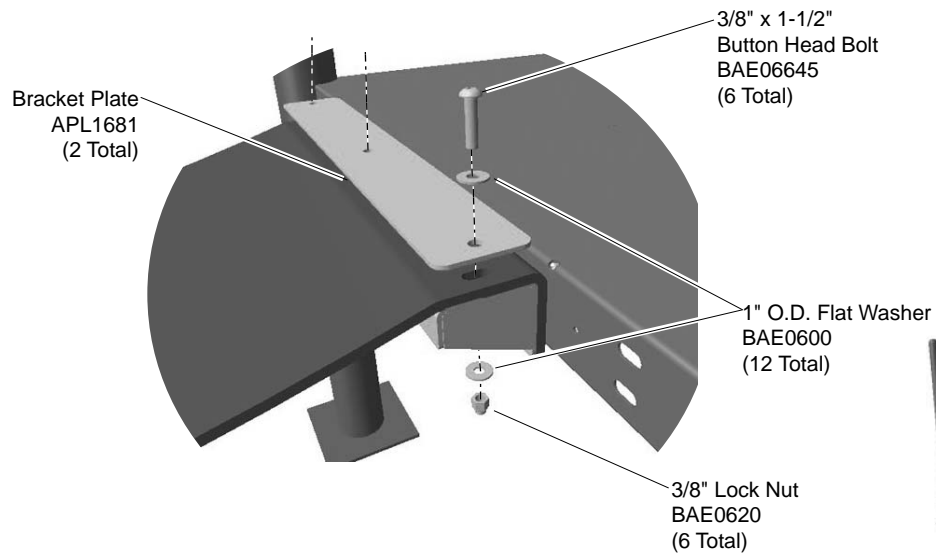
*Attach one end of the bridge to a deck.*



# Installation Instructions

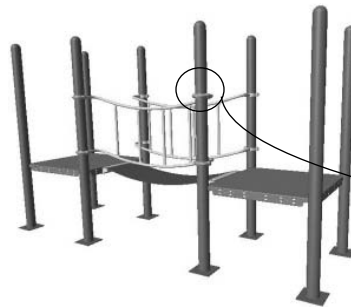
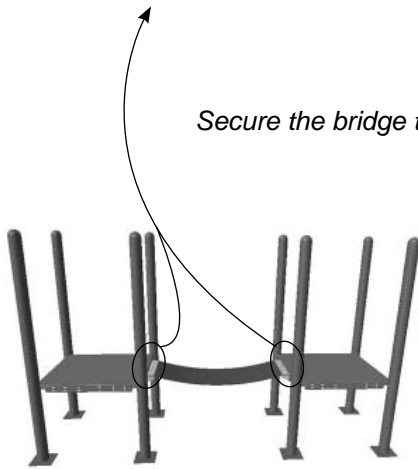
## Step 4

**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.**



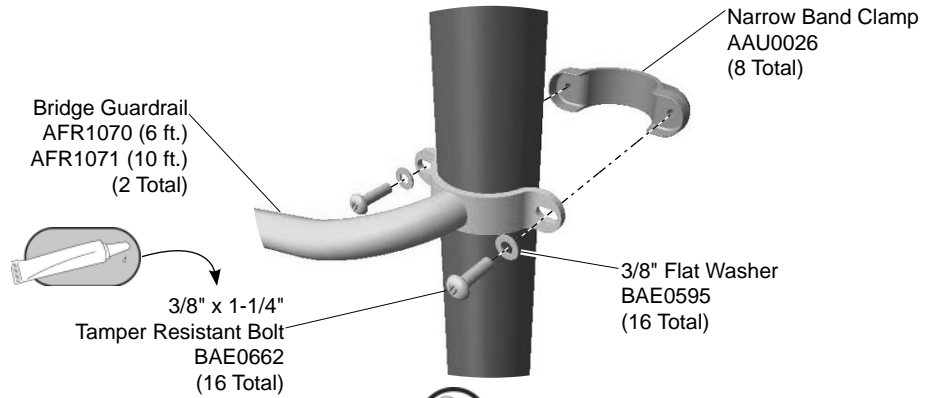
## Detail B Step 5

**Secure the bridge to the top of the bridge bracket.**



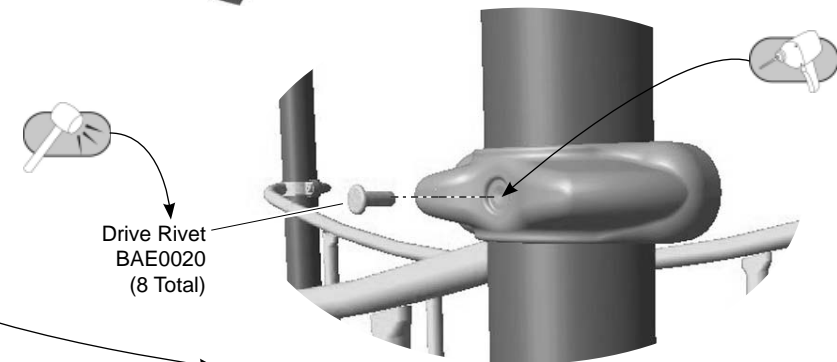
## Detail C Step 6

**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" TPR 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" TPR 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 PM9816  
Camber Half Square Roof

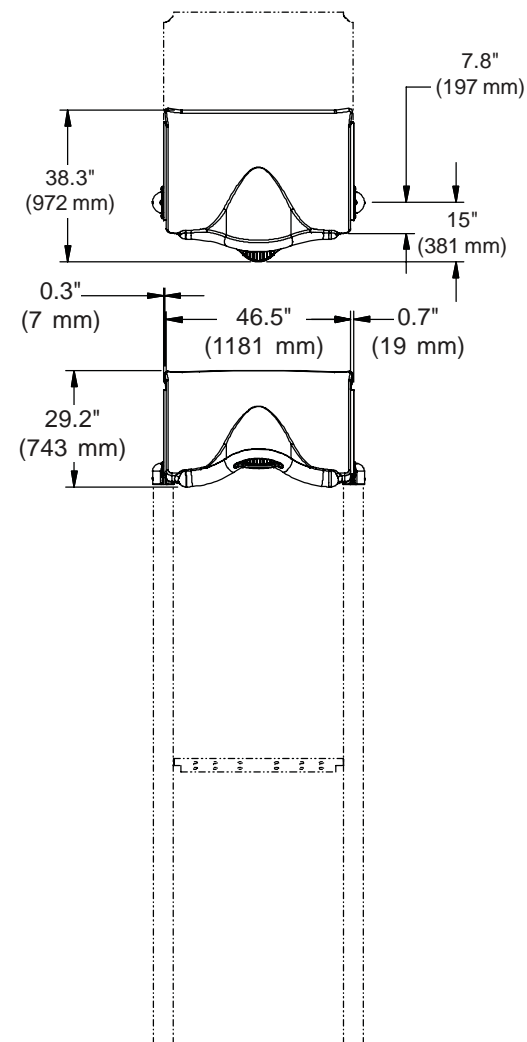
**Installation Preparation**

Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 51.7 lbs. (23,5 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 <b>Not</b> Fully Tighten Hardware	Pour Concrete
	Drill	Dig Footing Holes
	Hammer	Critical Fall Height

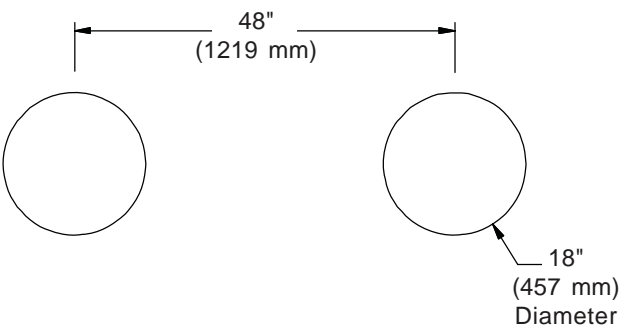
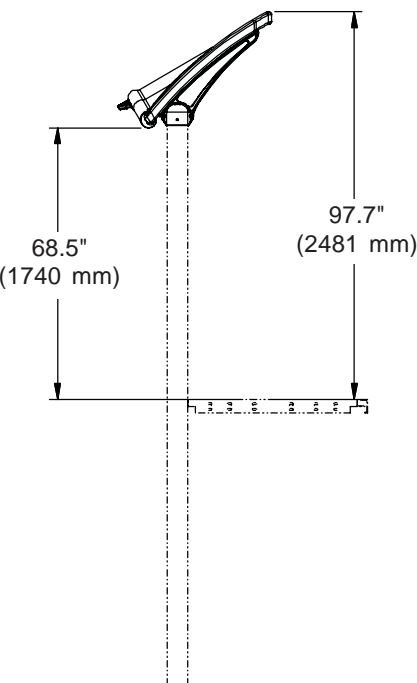


# Installation Instructions



Elevation Views

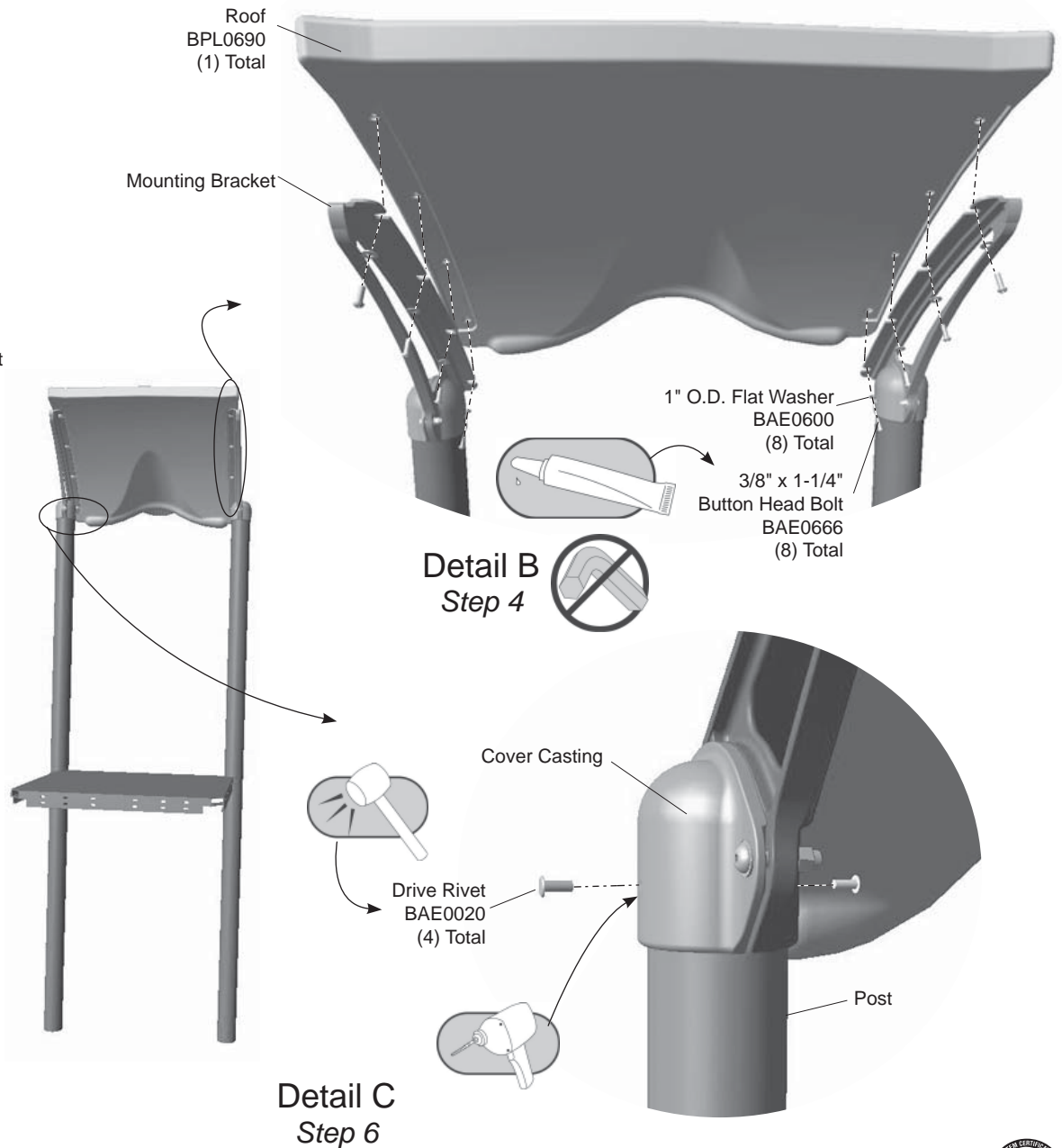
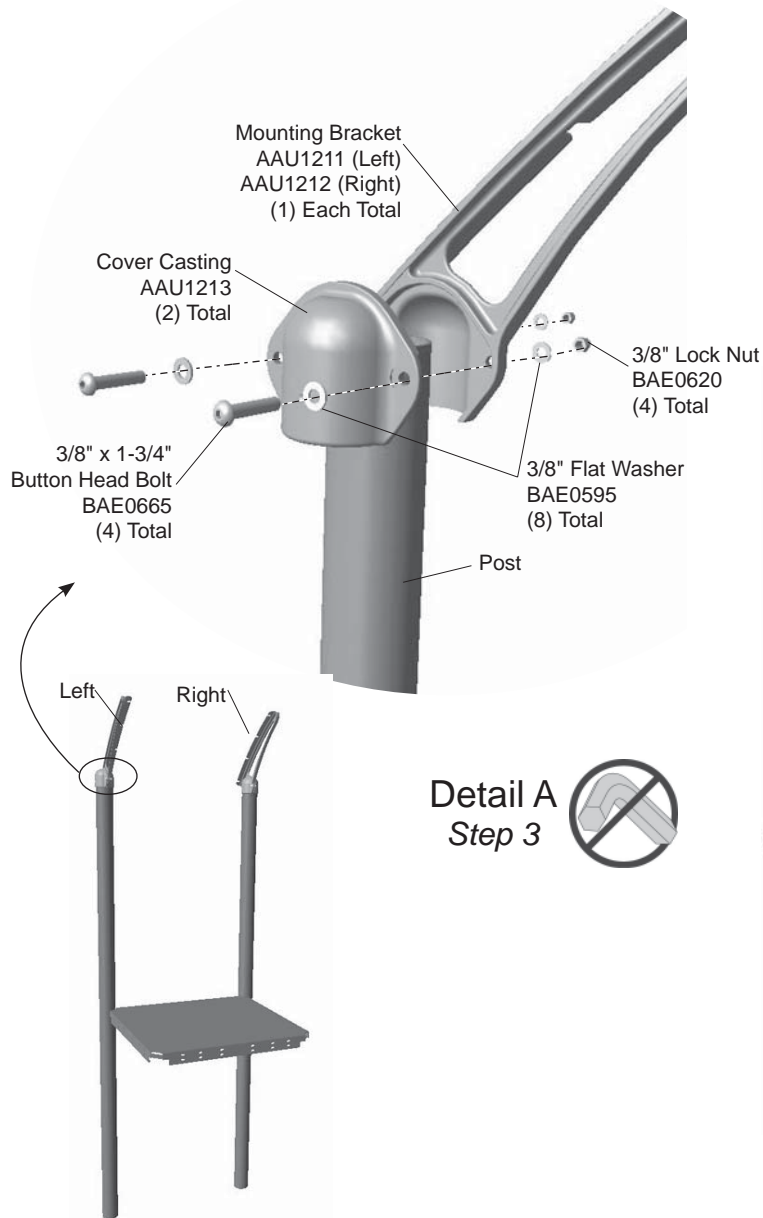
Top View



Footing 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.

**Assemble and attach mounting brackets to posts.**

**Step 3:** See **Detail A**. Attach as shown. Snug tighten the bolts. The bracket height may have to be adjusted to level the roof.

**Note:** Right and left are determined as if you were standing on the deck to be covered.

**Attach the roof.**

**Step 4:** See **Detail B**. Place the roof on the brackets and align the holes. Attach as shown. Do not tighten the bolts completely.

**Final Details**

**Step 5:** Square and level the roof at the desired height. Tighten the bracket bolts. Fully tighten all fasteners in accordance with the 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**. A quantity of (4) four drive rivets are supplied for permanently securing brackets to the support posts. 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.

## PM9816 - CAMBER HALF SQUARE ROOF

PART NO.	DESCRIPTION	QTY.
AAU1211	BRACKET - 5" SQUARE (LEFT)	1
AAU1212	BRACKET - 5" SQUARE (RIGHT)	1
AAU1213	BRACKET - 5" COVER CASTING	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK W/ NYLON CAP	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BPL0690	ROOF - SQUARE (PM)	1



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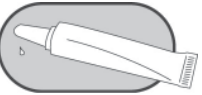

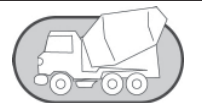
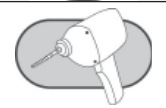

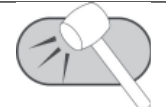
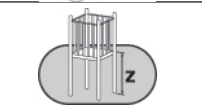


Assembly View

Installation Instructions  
Playmakers® Model PM9817  
Camber Half Square Roof Add On

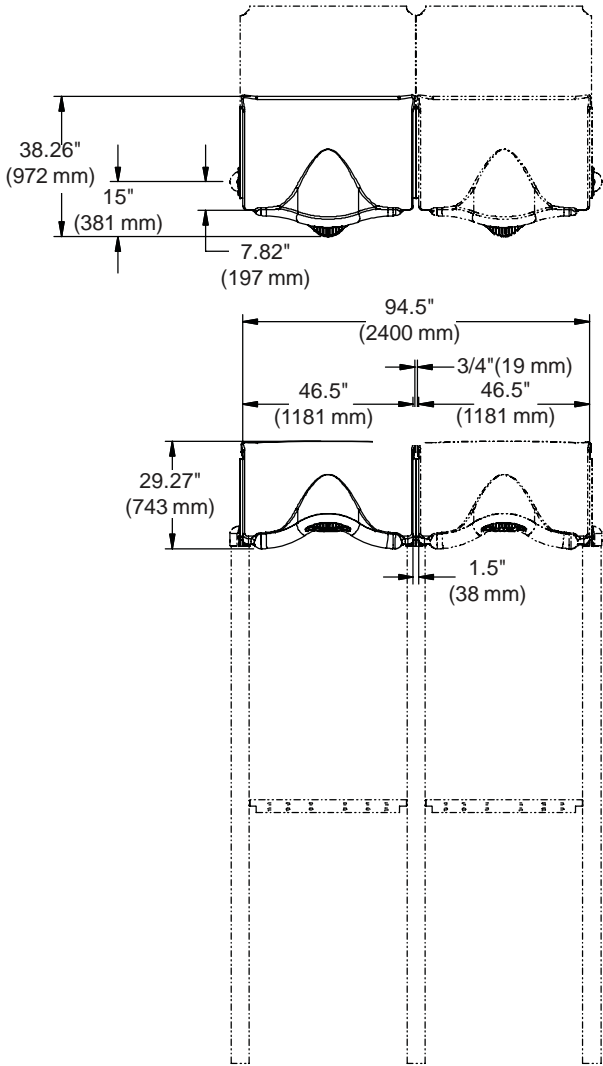
Installation Preparation

- Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 49 lbs. (22 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

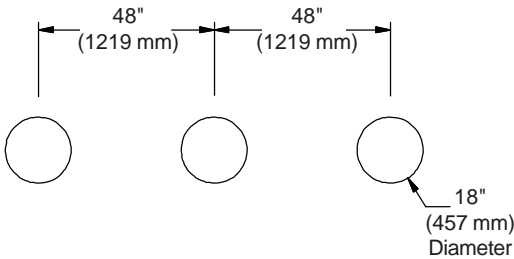
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

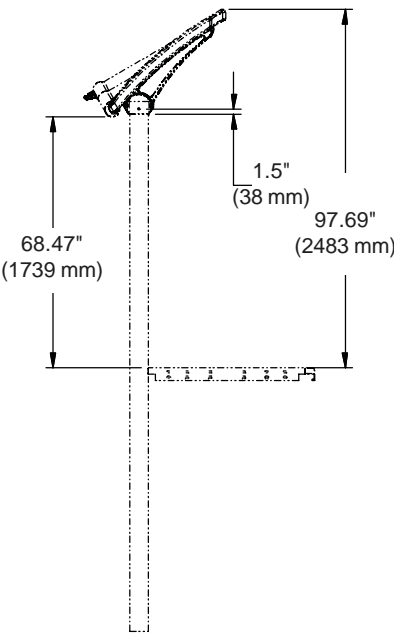
Top View



Elevation Views

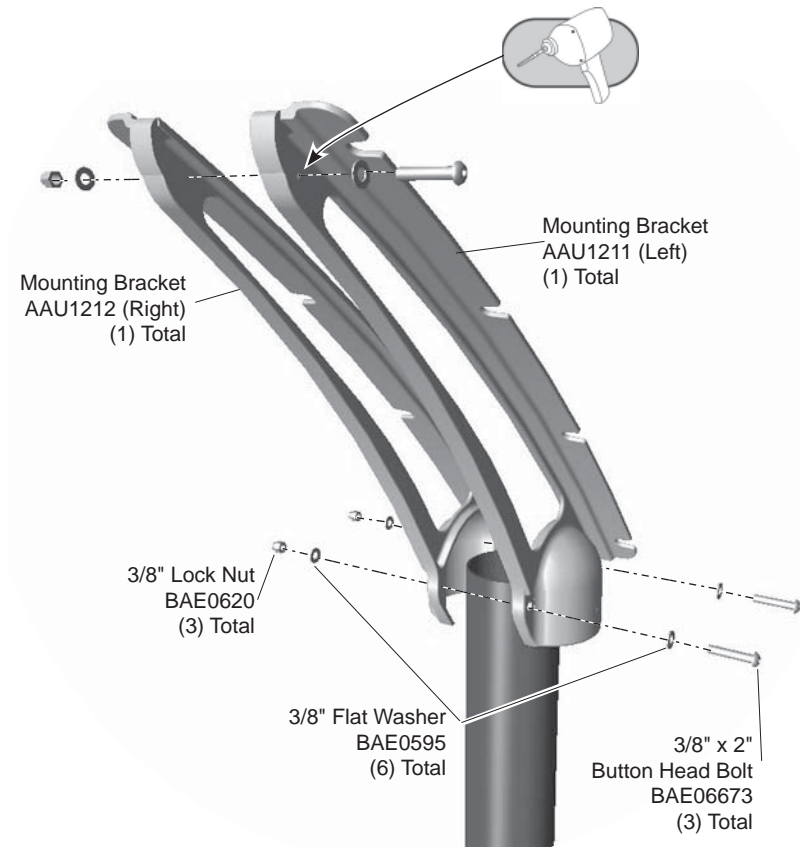


Footing Diagram



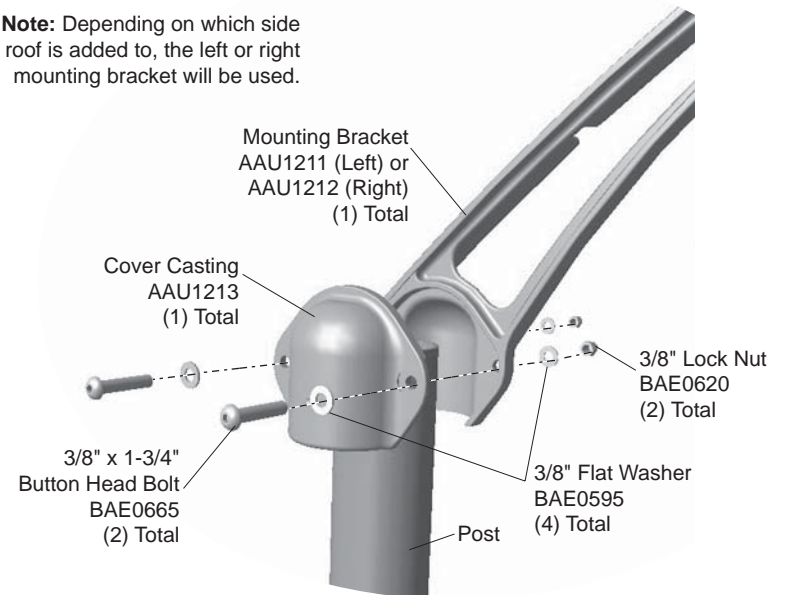
# Installation Instructions

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

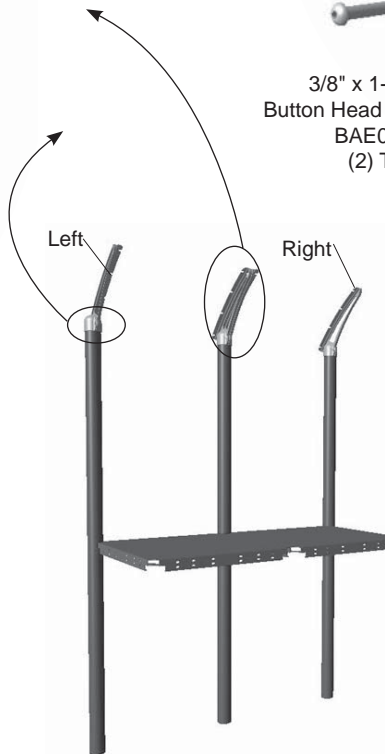


Detail A  
Step 6

**Note:** Depending on which side the roof is added to, the left or right mounting bracket will be used.

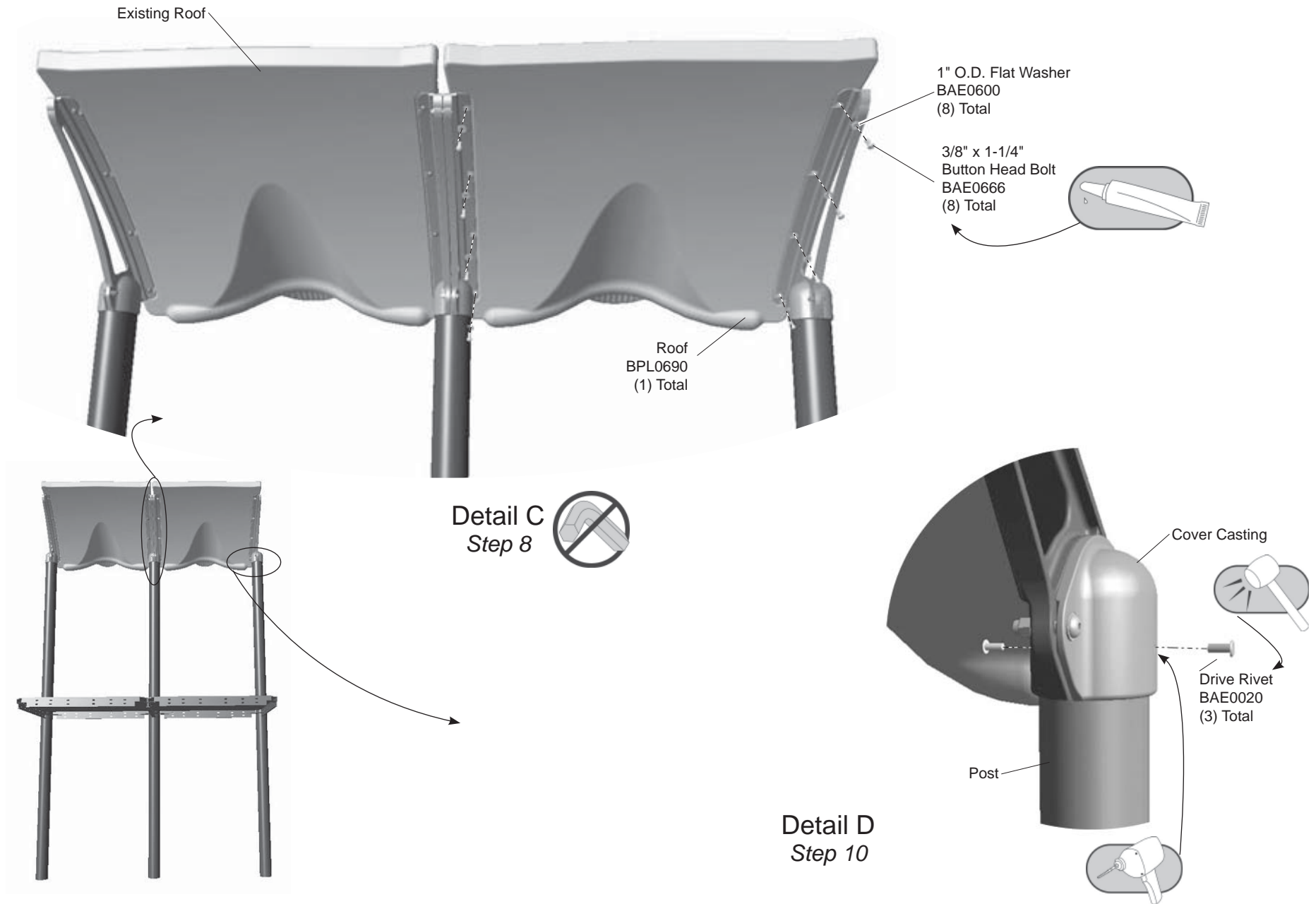


Detail B  
Step 7





# 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 where the add-on roof is to be placed. If this add-on roof is to be connected to a existing camber roof follow the instructions below. If this add-on roof was purchased with a stand alone camber roof, skip to Step 5. Assemble multiple adjacent camber roofs at the same time.

**Prepare the existing camber roof to accept an adjacent add-on roof.**

**Step 4:** Prepare the existing camber roof to accept an adjacent add-on roof. Drill out the drive rivet from the cover casting on the side that the new roof section will be placed.

**Step 5:** Remove the hardware from the side that the add-on roof will be placed and set it aside to be used in *Step 7*.

**Connect the adjacent mounting brackets.**

**Step 6:** See **Detail A**. Select the appropriate roof bracket (either left or right depending on which side the roof is being placed). Drill a 7/16" hole through the upper portion of the brackets. Attach as shown. Snug tighten only to allow for roof height adjustment.

**Attach remaining the bracket to the support post.**

**Step 7:** See **Detail B**. Select the remaining mounting bracket and the hardware previously set aside in *Step 5*. Position the bracket at the inside top of the remaining support post. Attach as shown. Snug tighten bolts. The bracket height may have to be adjusted to level the roof.

**Attach the roof.**

**Step 8:** See **Detail C**. Place the roof on the brackets and align the holes. Apply a drop of loctite to the bolt threads and attach as shown. Do not tighten the bolts completely.

## Final Details

**Step 9:** Square and level the roof at the desired height. Tighten the bracket bolts. Fully tighten all fasteners in accordance with the 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 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.

## PM9817 - CAMBER 1/2 SQUARE ROOF ADD-ON

PART NO.	DESCRIPTION	QTY.
AAU1211	BRACKET - 5" SQUARE (LEFT)	1
AAU1212	BRACKET - 5" SQUARE (RIGHT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	3
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	3
BPL0690	ROOF - SQUARE (PM)	1



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Assembly View (representative model)

## Installation Instructions

### Playmakers®

Models PM9168, PM9170 and PM9177  
Deck to Deck Accessible Tiered Platform  
12 in. (305 mm), 24 in. (610 mm) and  
36" (914 mm) Rise Height

### Installation Preparation

Recommended Crew: ..... Two - Three (2-3) adults  
Installation Time: ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

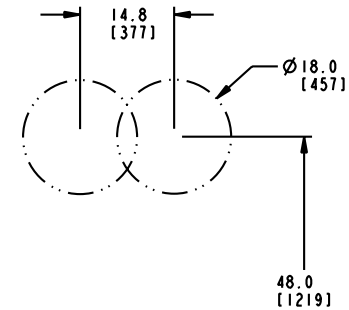
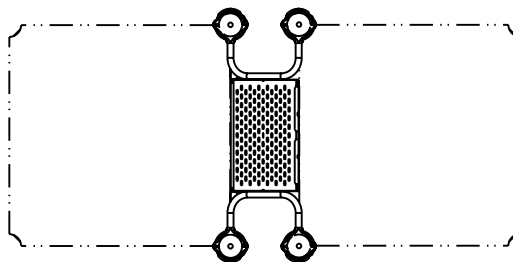
#### ICON KEY

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

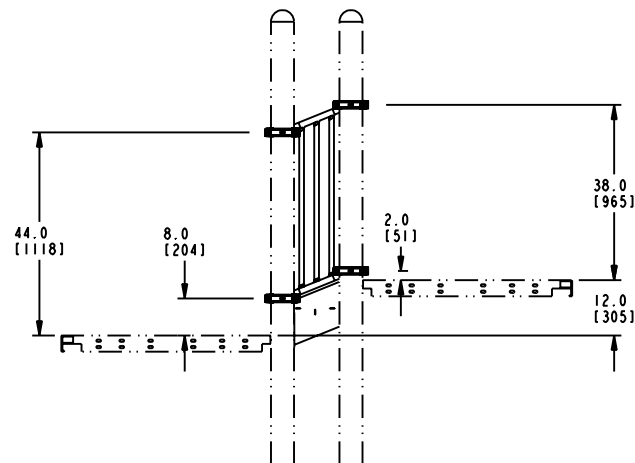
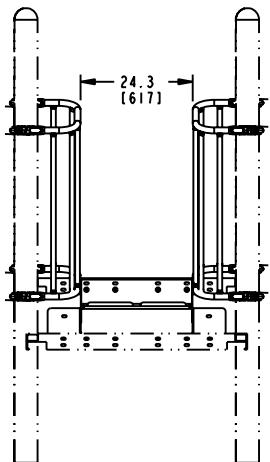
# Installation Instructions

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

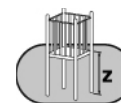
Top View



Footing Diagram



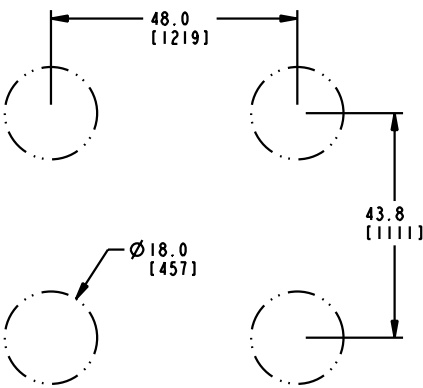
Elevation Views  
PM9168



Height of the upper deck  
minus 6" (152 mm)

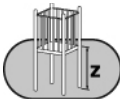
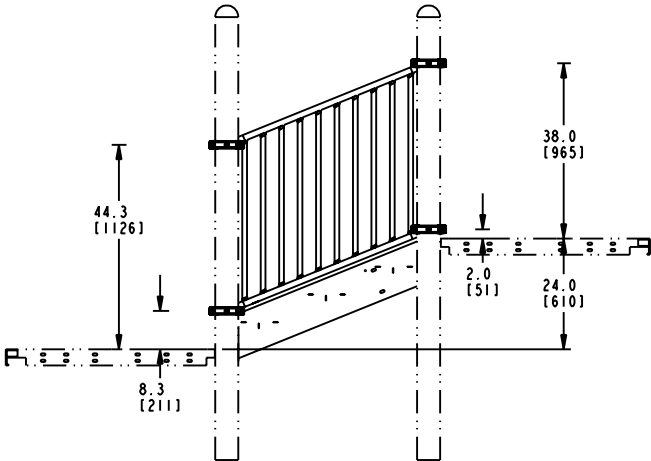
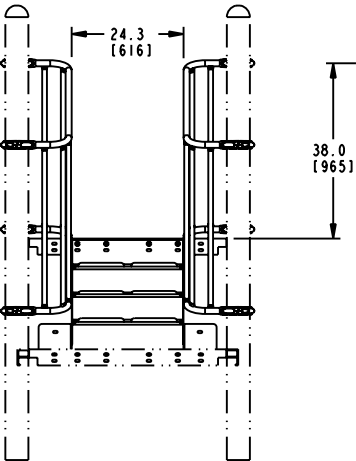
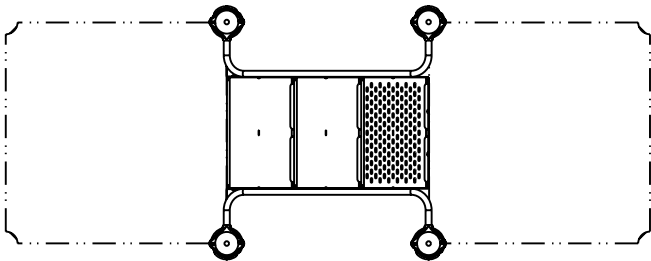
# Installation Instructions

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



Footing Diagram

Top View



Height of the upper deck  
minus 6" (152 mm)

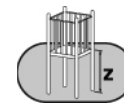
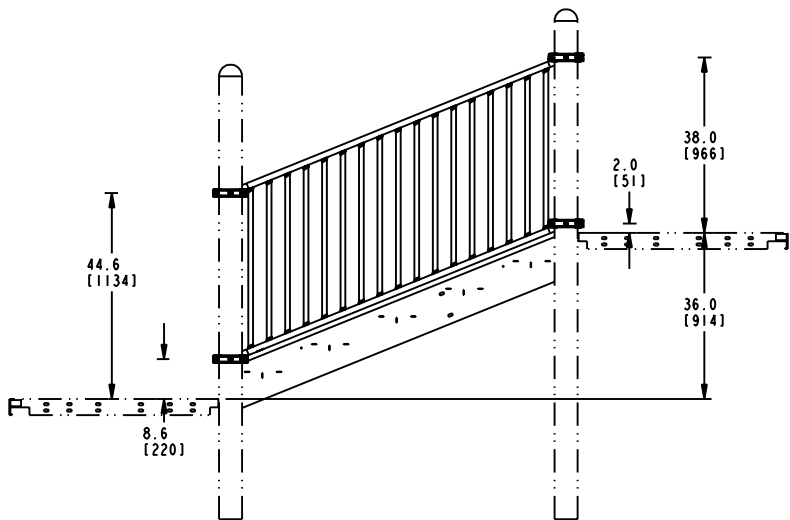
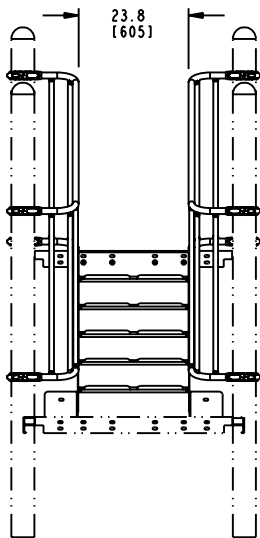
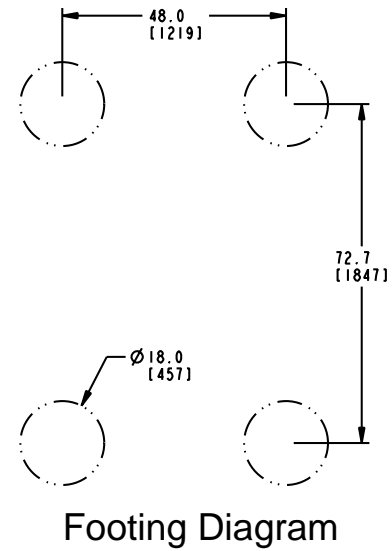
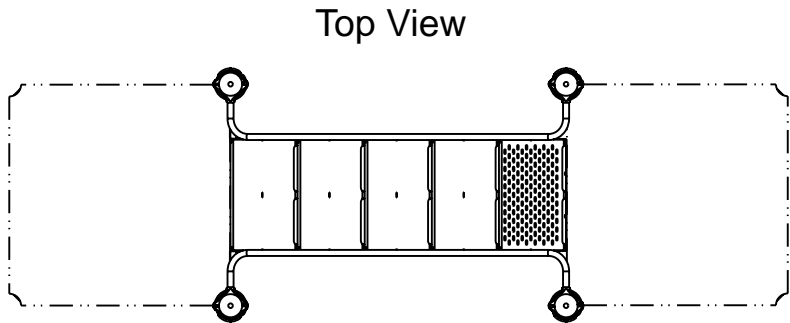
Elevation Views  
PM9170



# Installation Instructions

KEY

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



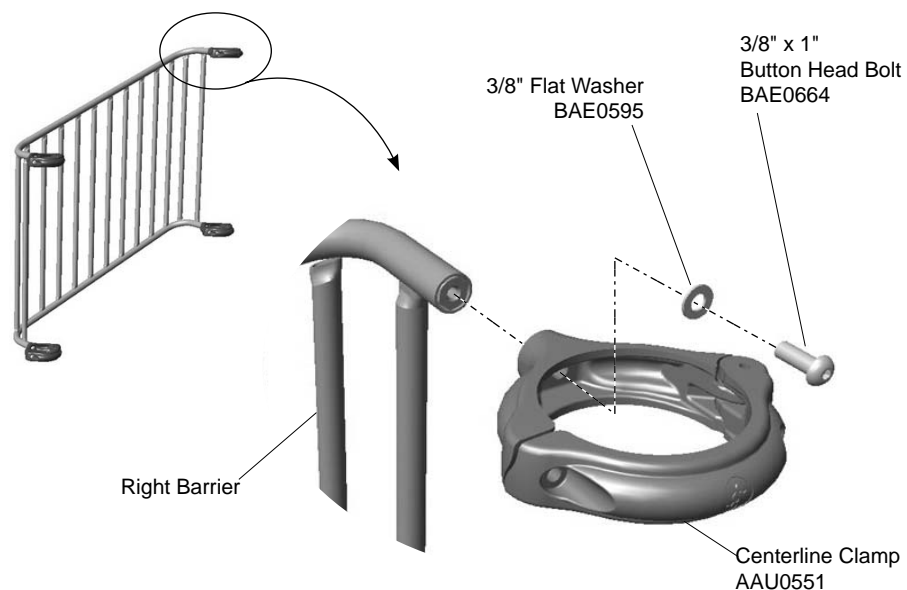
Height of the upper deck  
minus 6" (152 mm)

Elevation Views  
PM9177



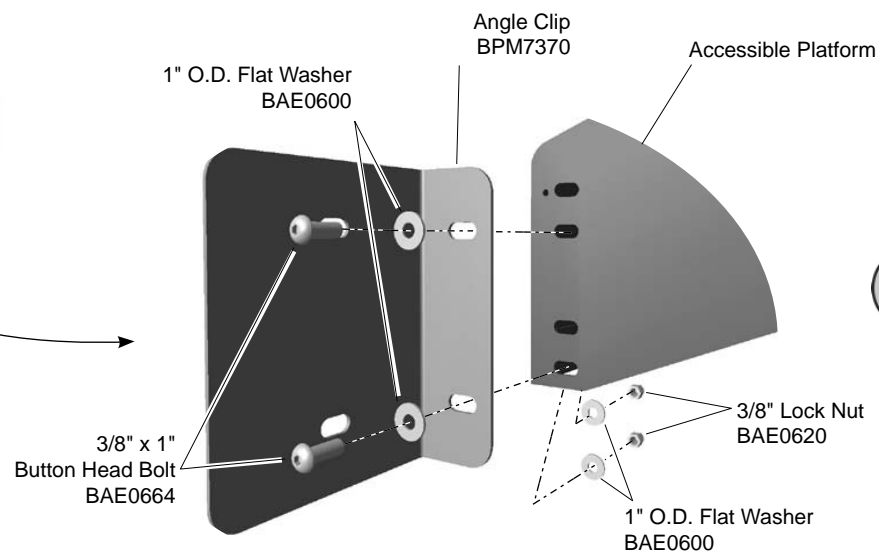
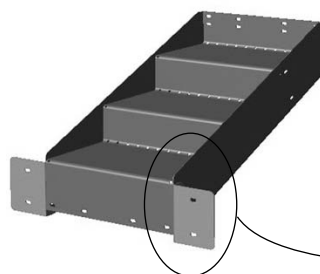
# Installation Instructions

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

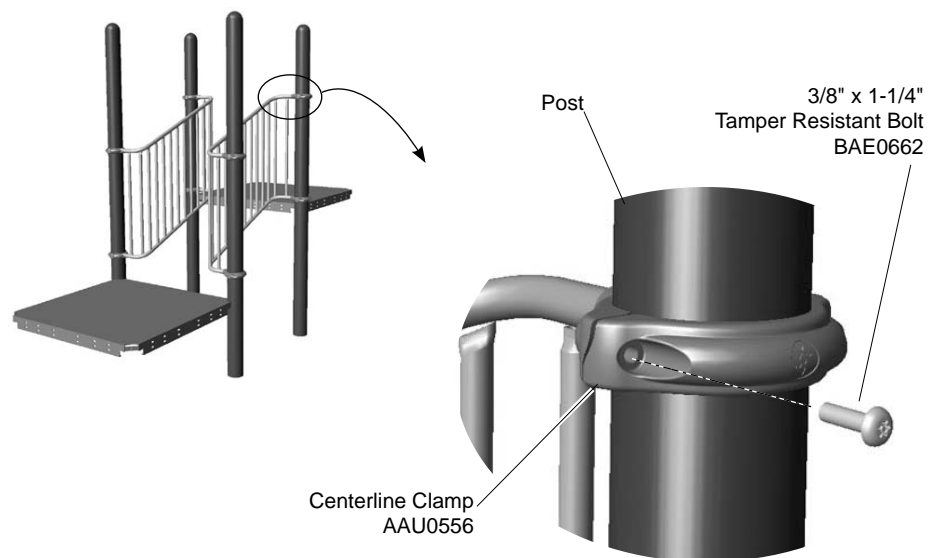


**Detail A**  
Step 4

The front of angle clip should be even with the face of the platform



**Detail C**  
Step 6

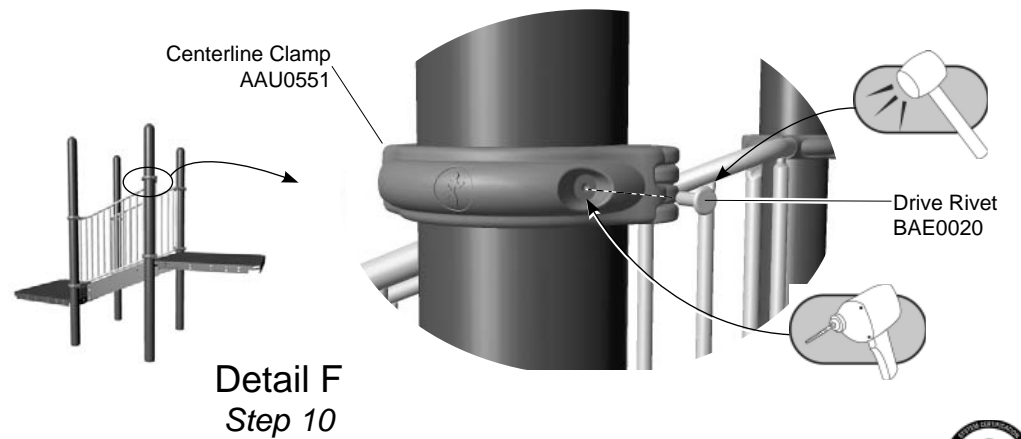
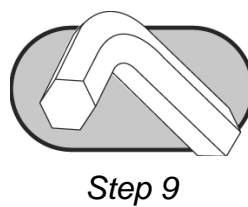
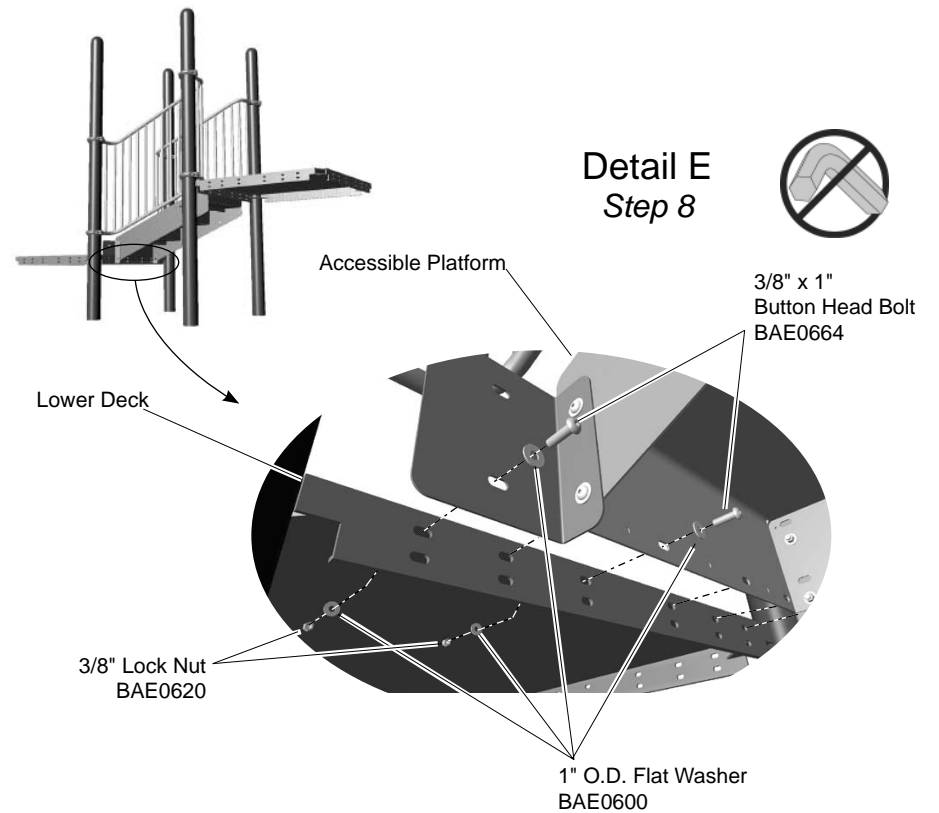
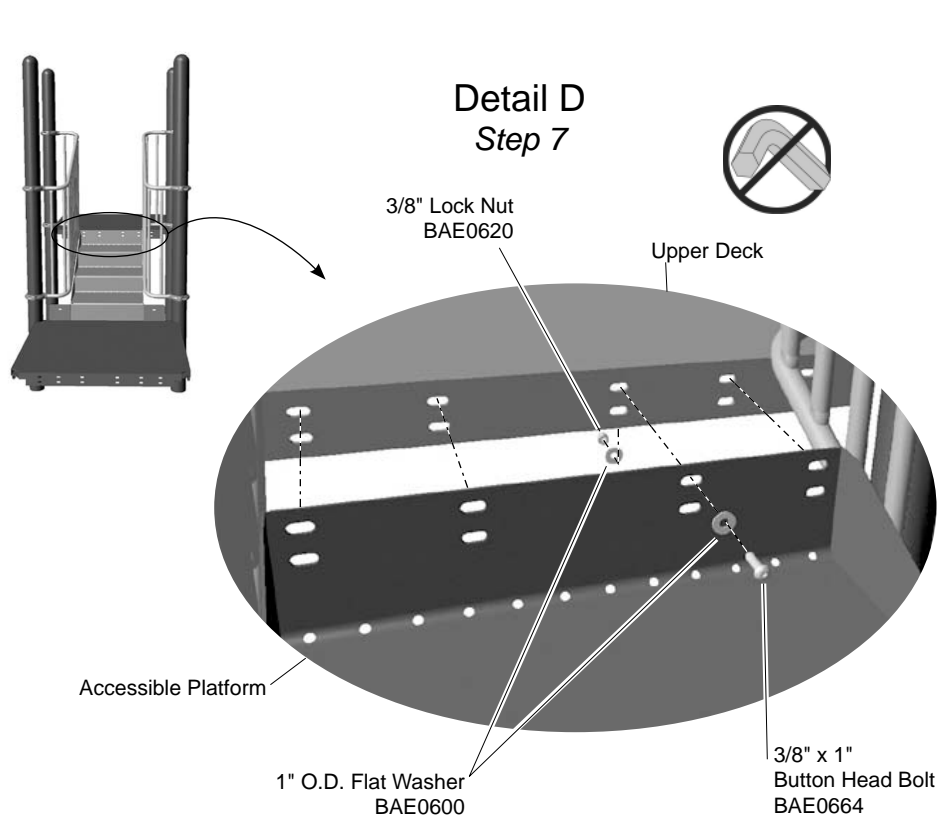


**Detail B**  
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

# 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.

## 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
BPM0296	STAIR - 12" ACCESSIBLE	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
BPM0299	STAIR - 36" ACCESSIBLE	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
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



For Customer Service, Call  
**800-233-8404** or  
**570-522-9800** OUTSIDE U.S.  
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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

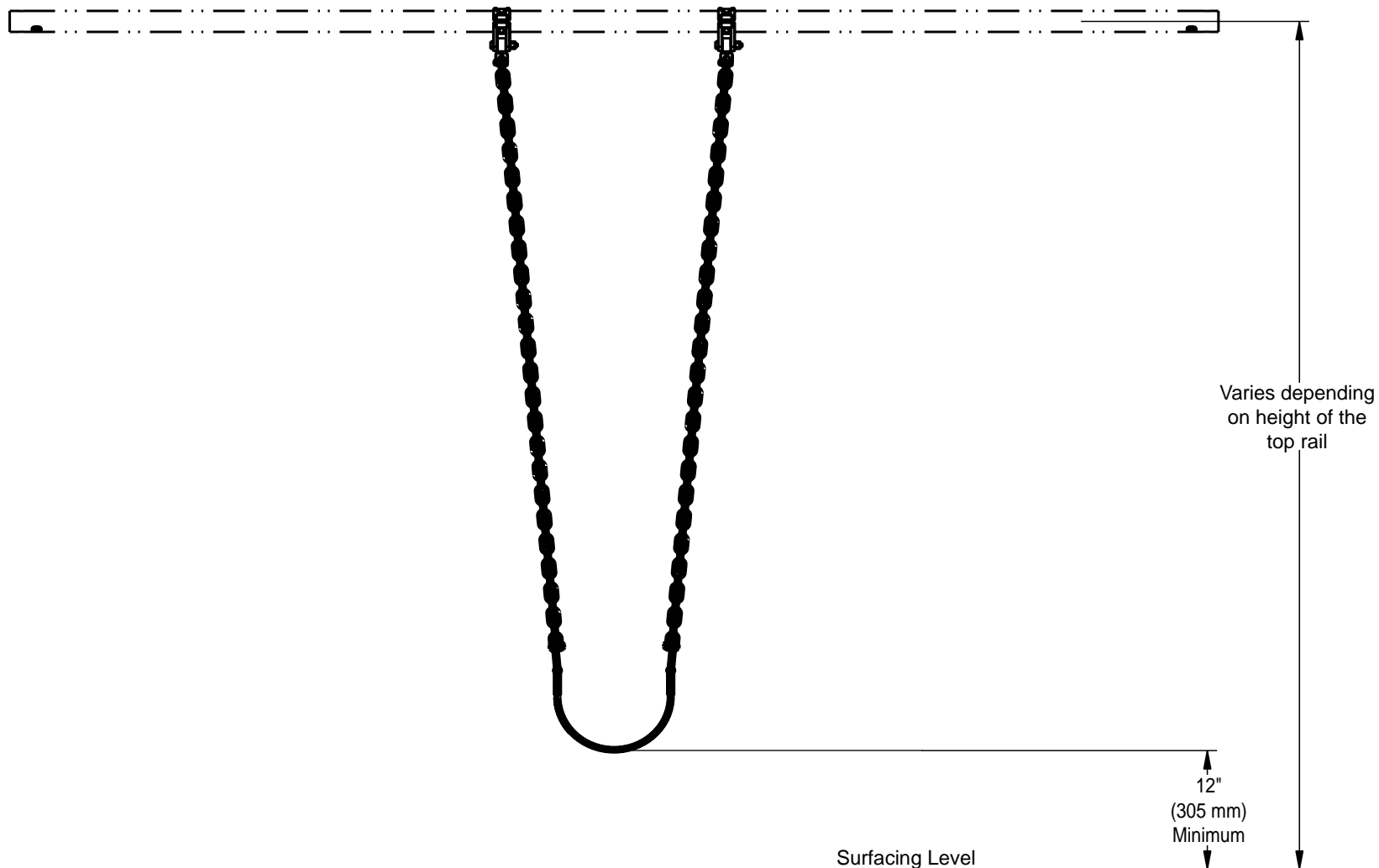
Playworld Systems®  
Models XX0260, XX0261, & XX0324  
Belt Seat with Swing Chain

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

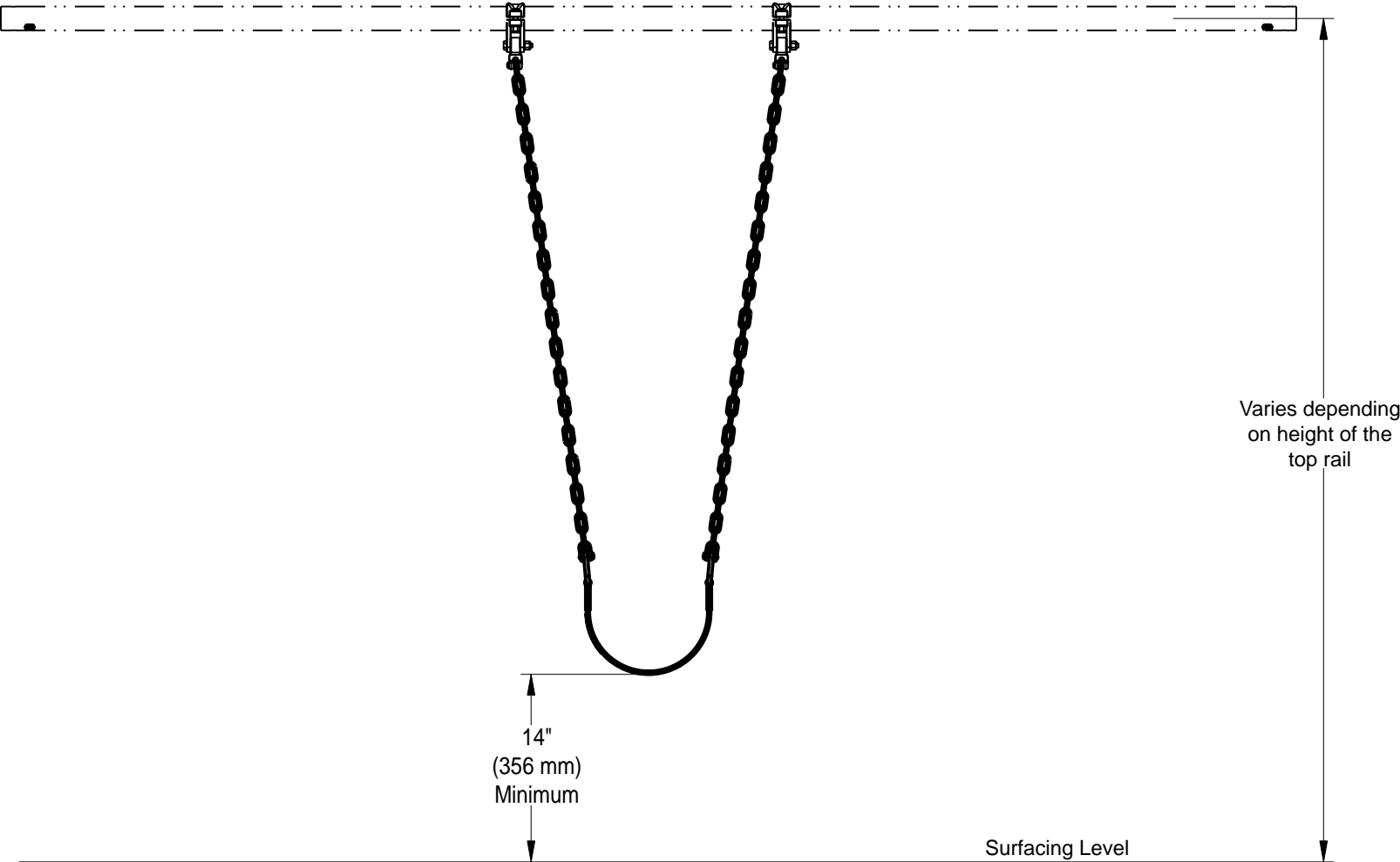
# Installation Instructions



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)

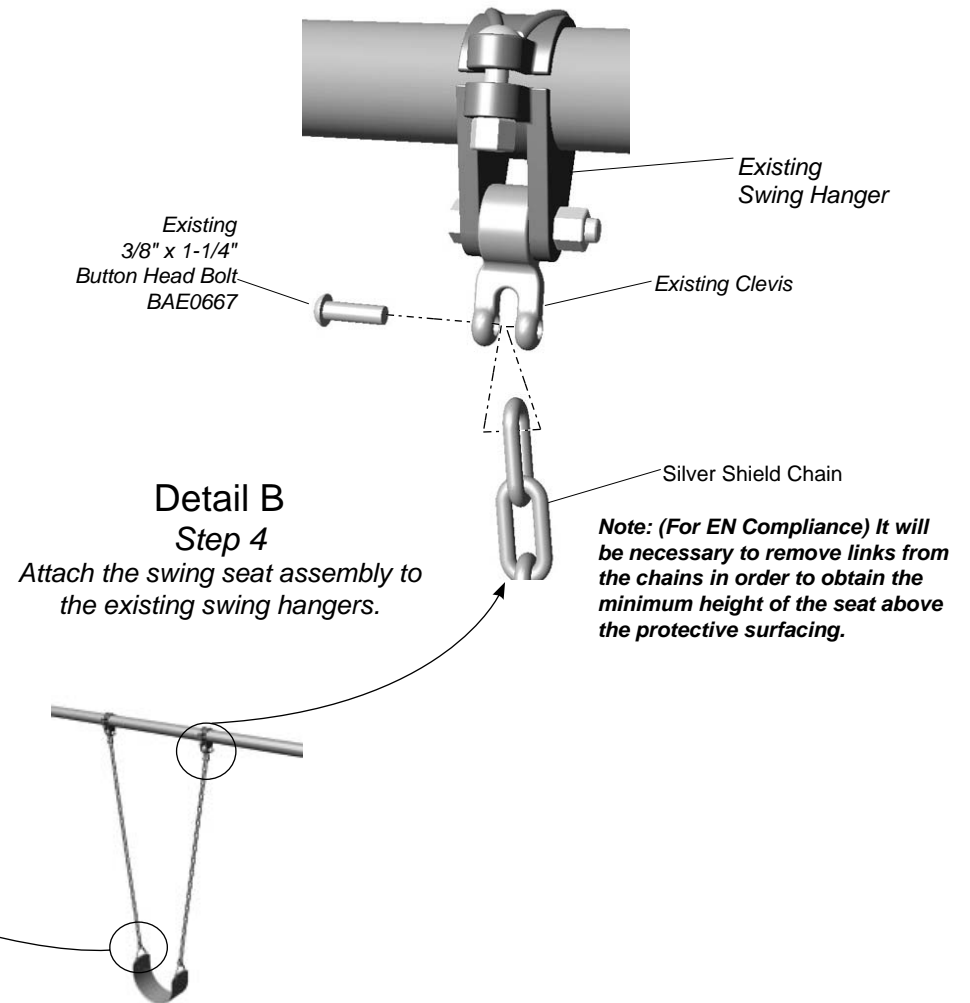
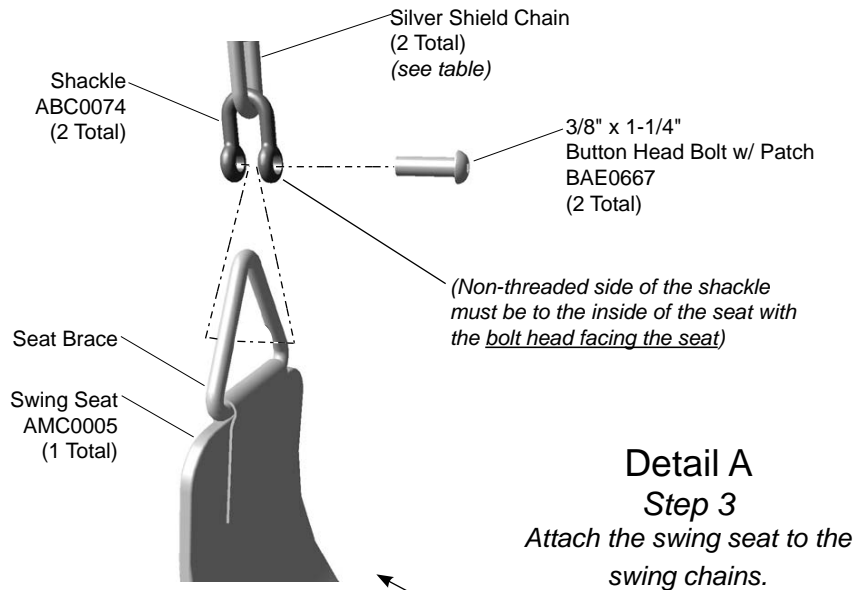
Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)





# Installation Instructions

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



Model Number	Swing 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 SWING 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 SWING 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 SWING 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



### 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.

## Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



# 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 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: \_\_\_ / \_\_\_ / \_\_\_





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing 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

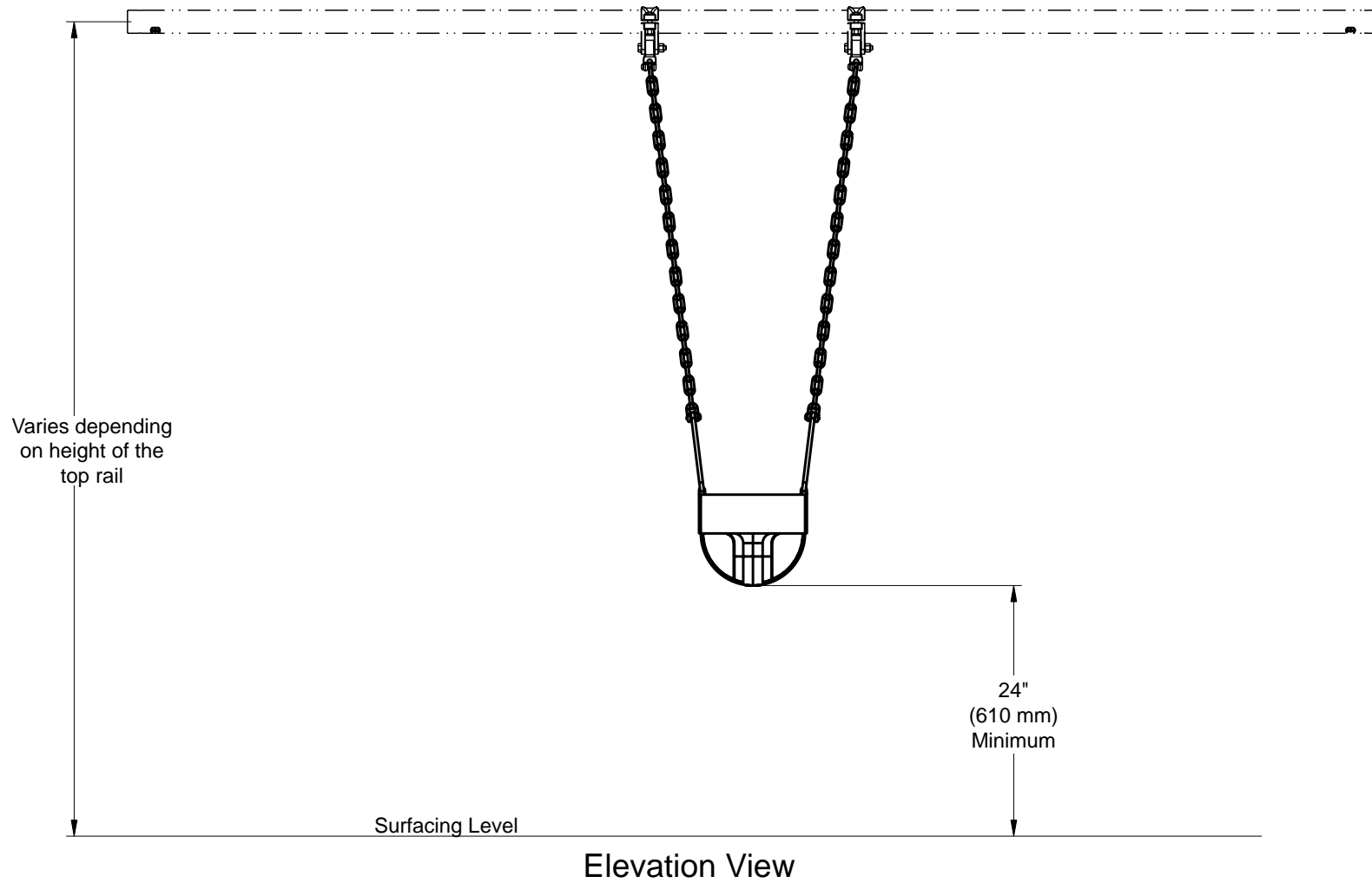
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

### ICON KEY



Fully Tighten  
Hardware

# Installation Instructions

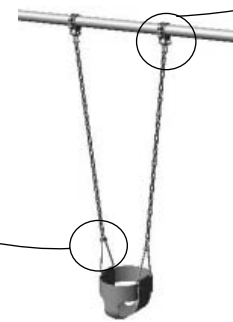
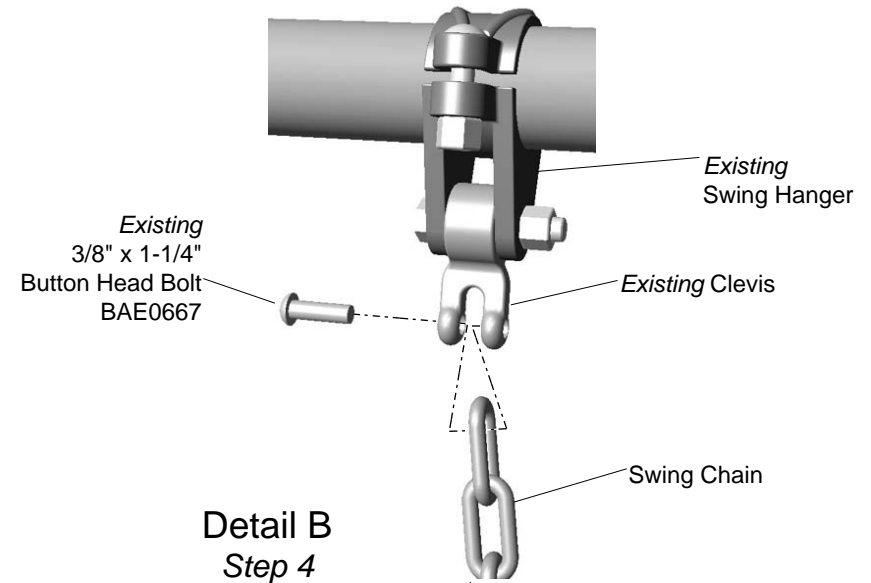
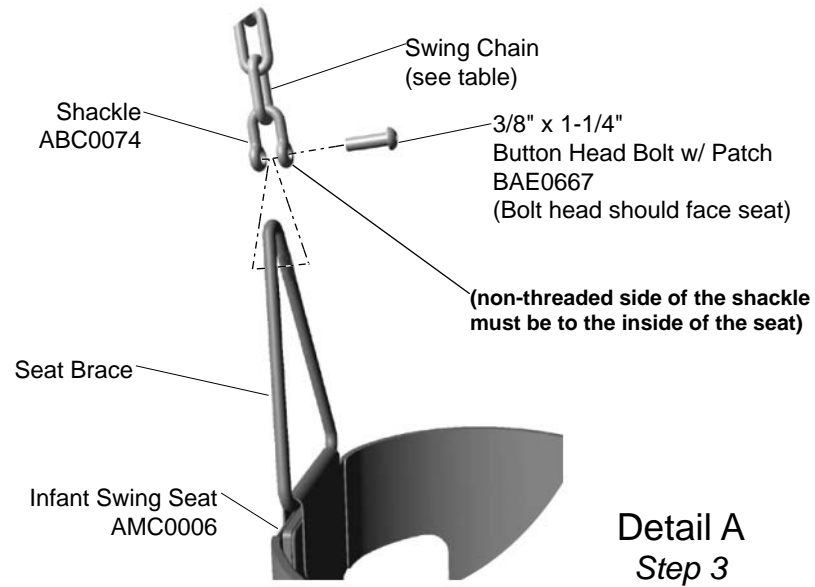


Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)



# 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	Swing 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

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**\_\_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.

## ZZXX0325 - INFANT SWING SEAT WITH SWING 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 Swing	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 SWING 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 Swing	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 SWING 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 Swing	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 Swing Chain



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[www.playworldsystems.com](http://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 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

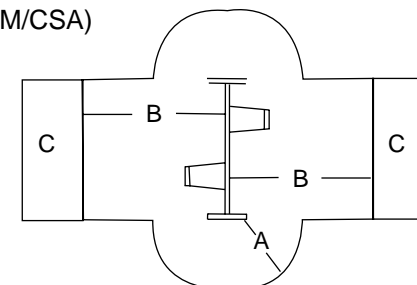
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

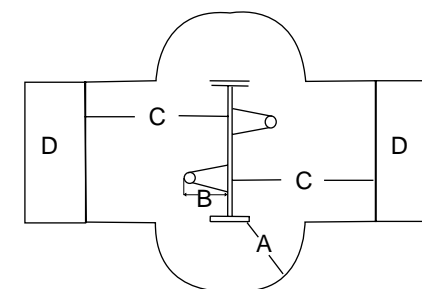
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of 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

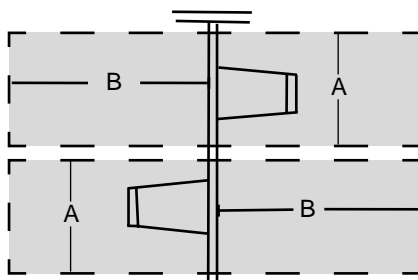
## (EN)

- 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 absorbency. 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

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- 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.

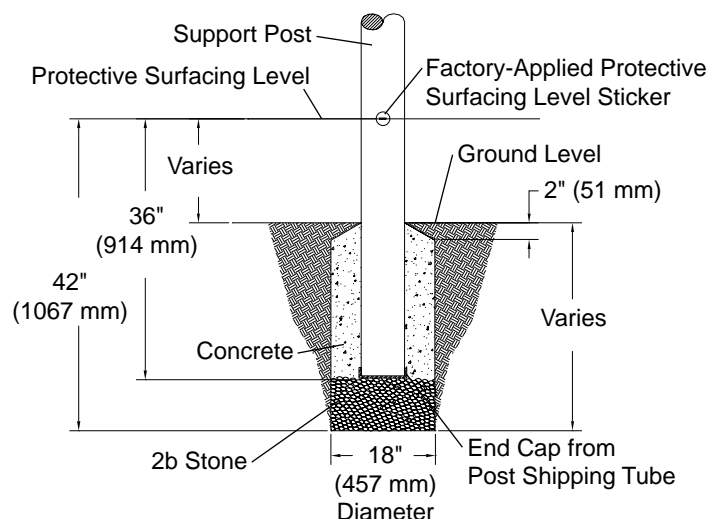
## Maintenance

- 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.

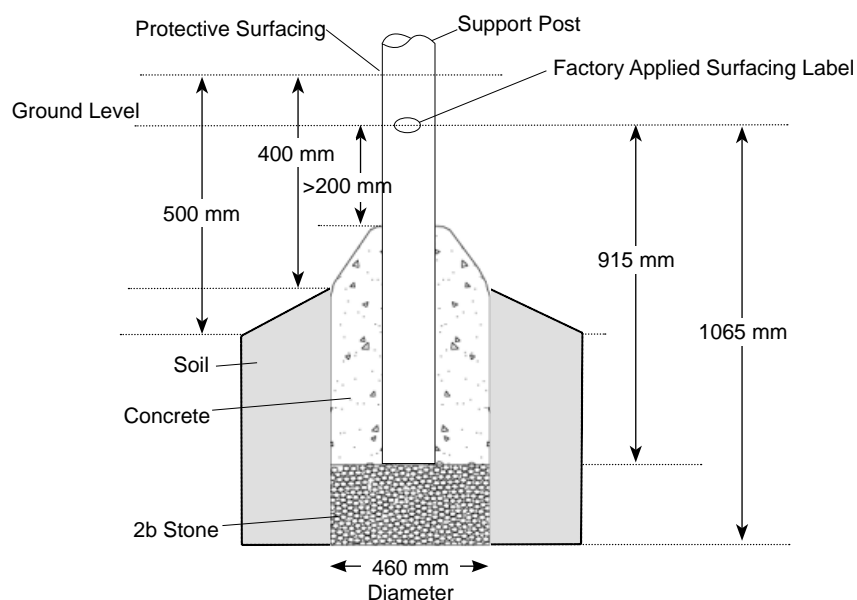
# Installation Instructions



**Support Post Footing Detail (ASTM/CSA)**

## FOOTING 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.



**Footing Detail Support Post (EN)**



Assembly View (representative model)

## Installation Instructions




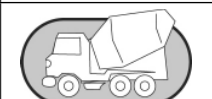



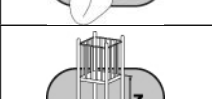
Playworld Systems® Model XX0287  
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing  
8 ft. (2438 mm) Top Rail

### 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.*

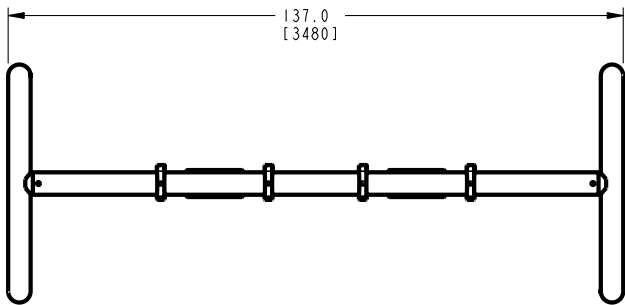
### ICON KEY

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

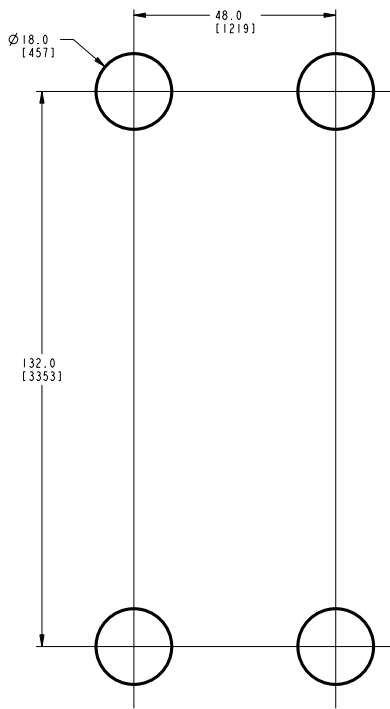
# Installation Instructions

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

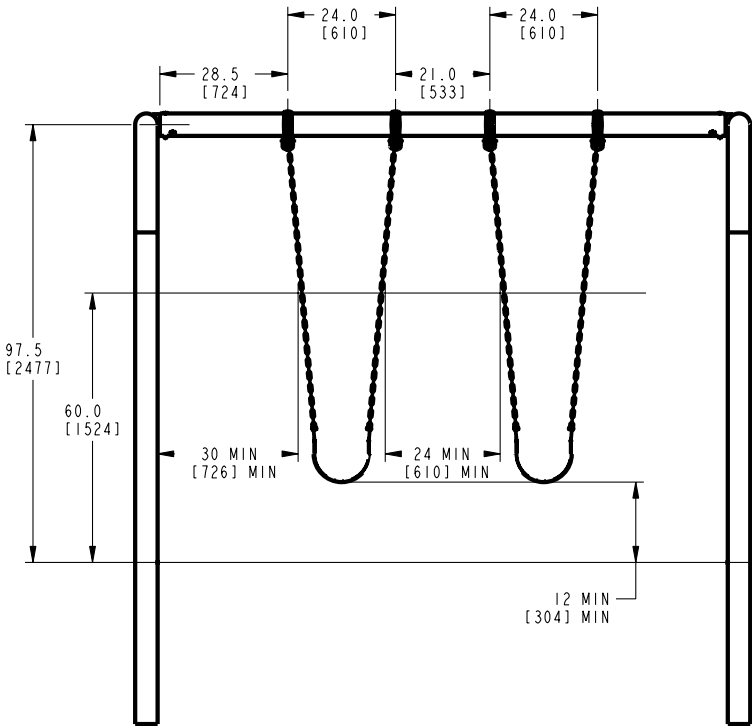
Top View



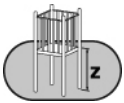
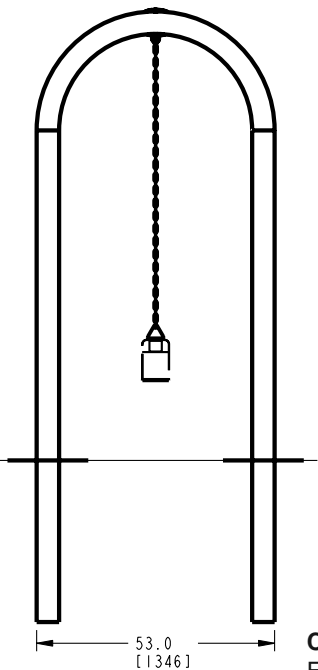
**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footings Diagram



Elevation Views

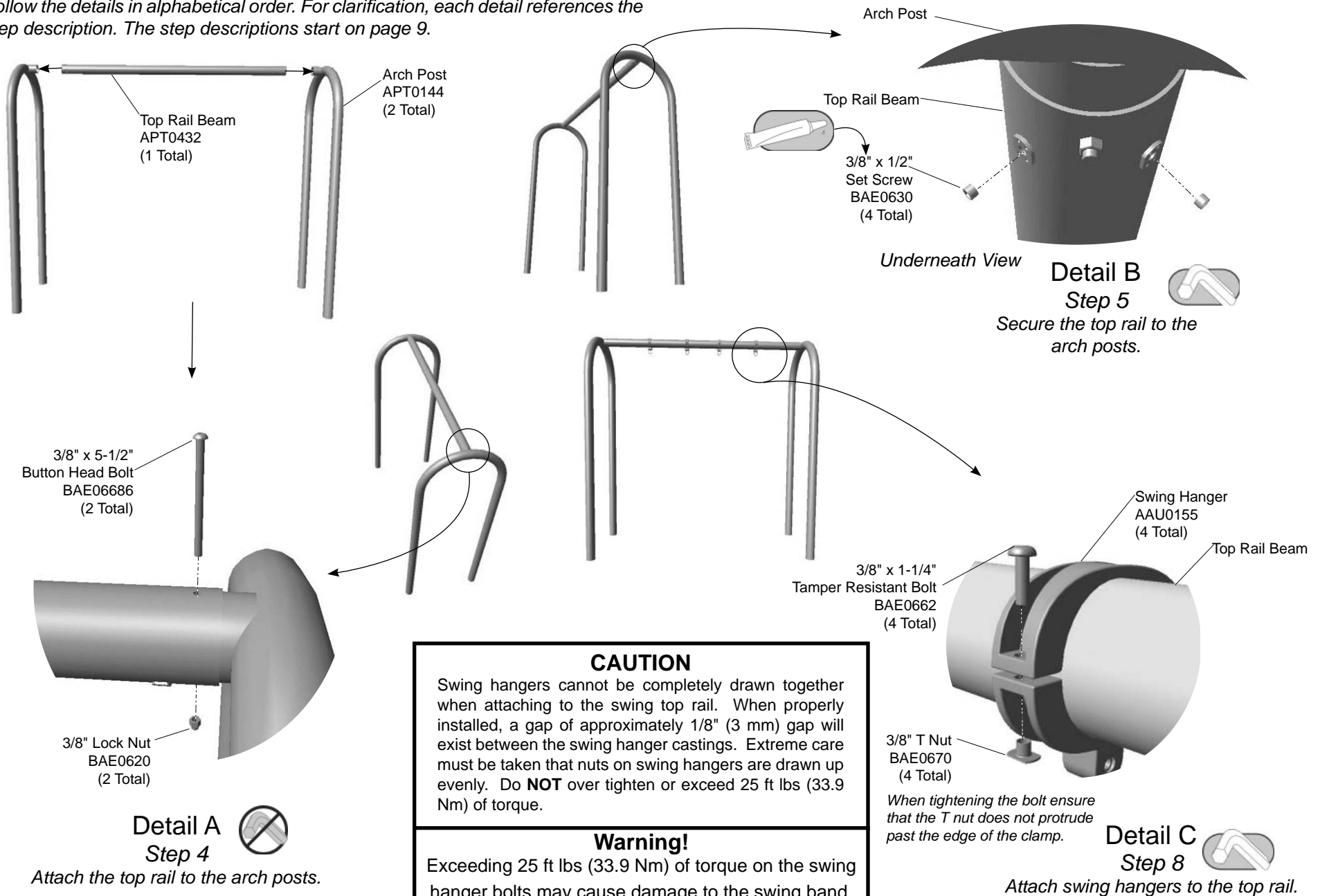


**Critical Fall Height**  
EN: belt seat - 1390 mm (mounted as shown)  
tot seat - 1545 mm (with seat at 610 above surfacing)

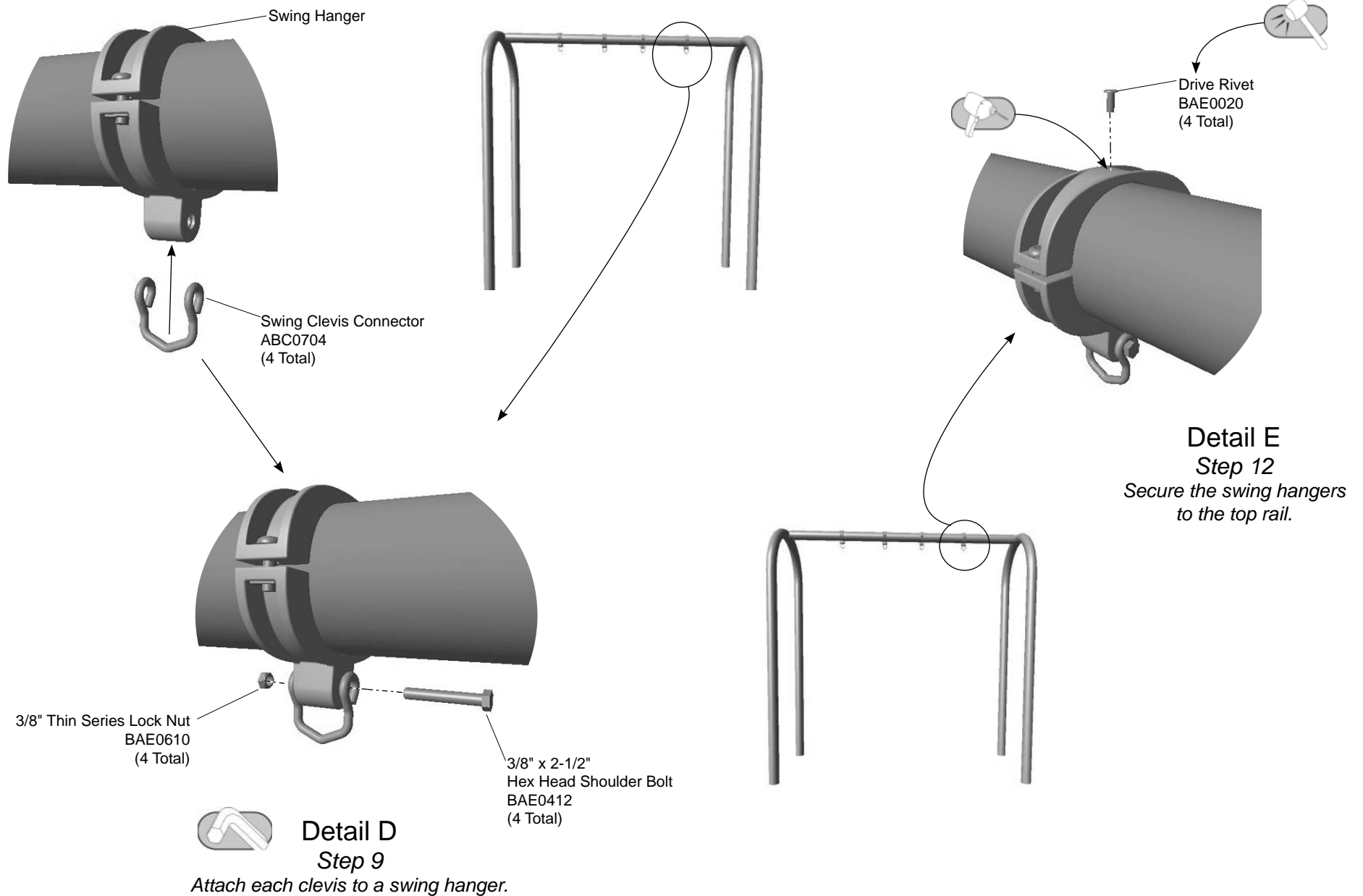


# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



# Installation Instructions



# Installation Instructions

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**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

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**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**

<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.



# 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			

<b>Inspection Codes</b>
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

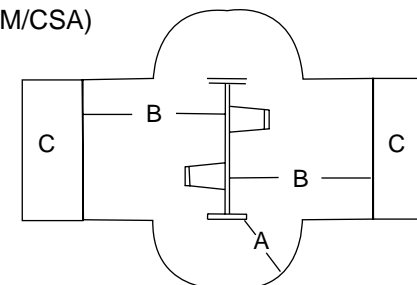
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

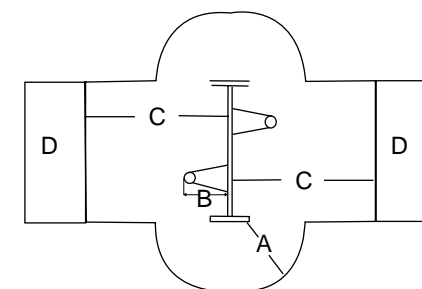
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

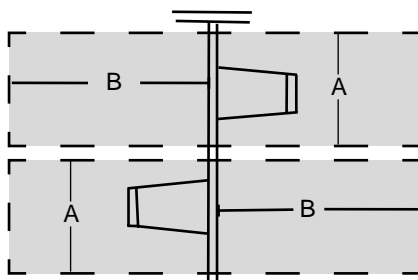
## (EN)

- 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 absorbency. 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

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- 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

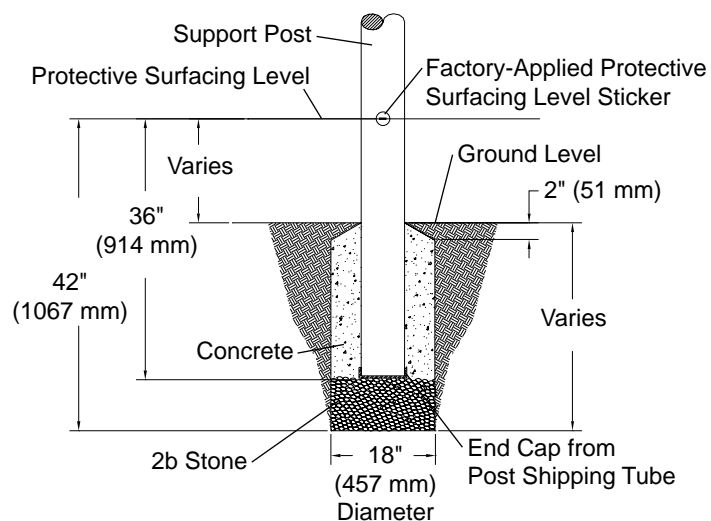
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment 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

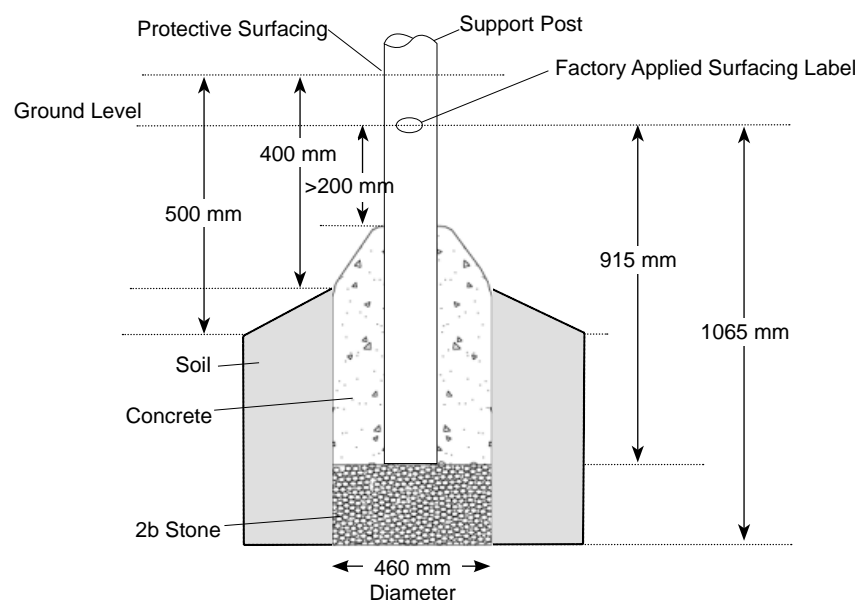
- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use 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.



Assembly View

## Installation Instructions




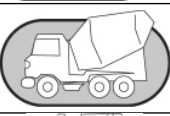


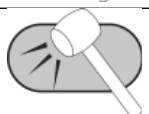
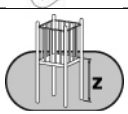
Playworld Systems® Model XX0370  
5 in. (127 mm) O.D. Aluminum Arch Swing  
2-Unit Add-A-Bay

### 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.*

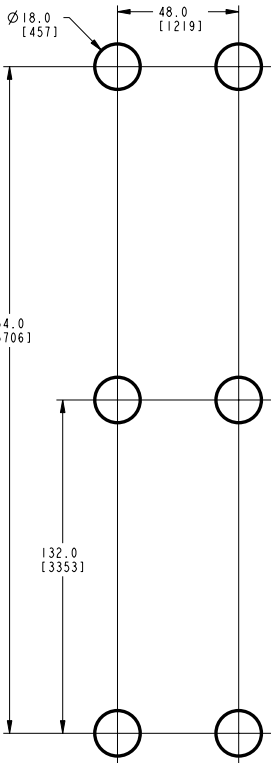
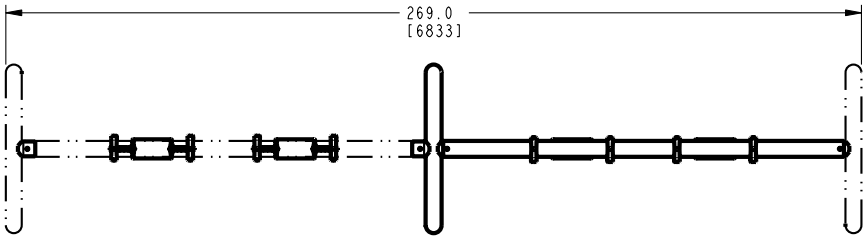
### ICON KEY

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

# Installation Instructions

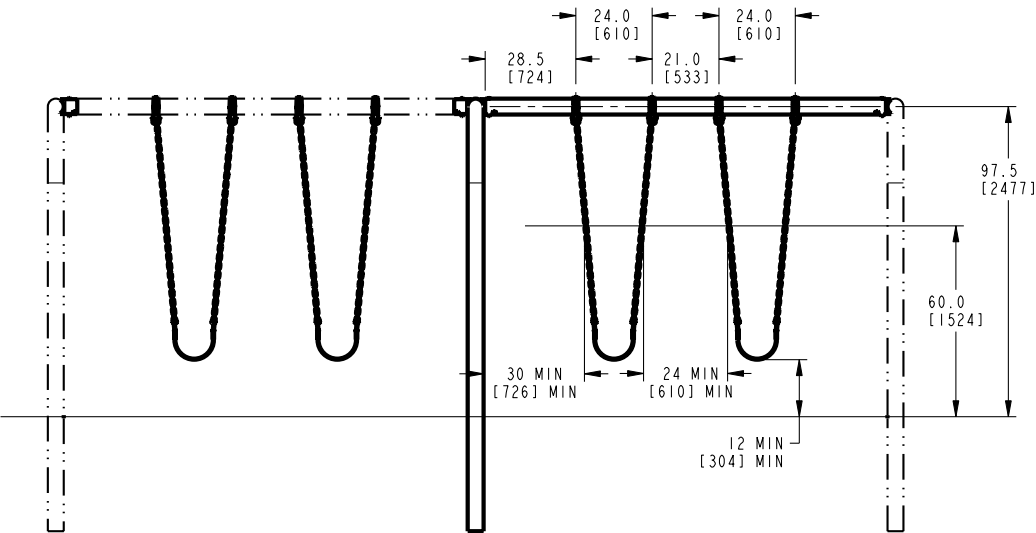
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

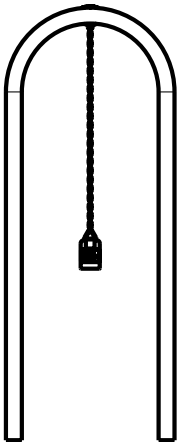


Footing Diagram

**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.

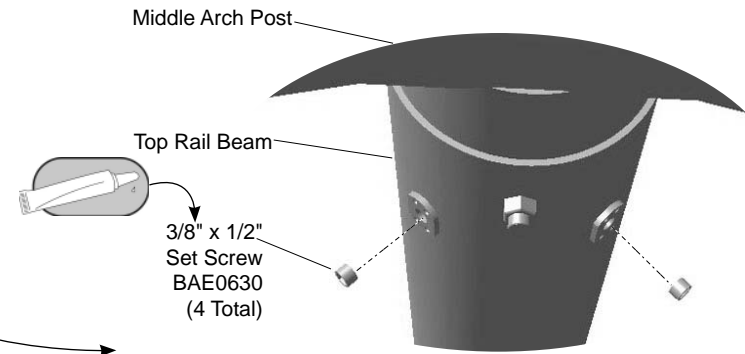
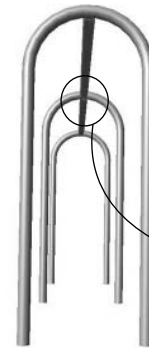
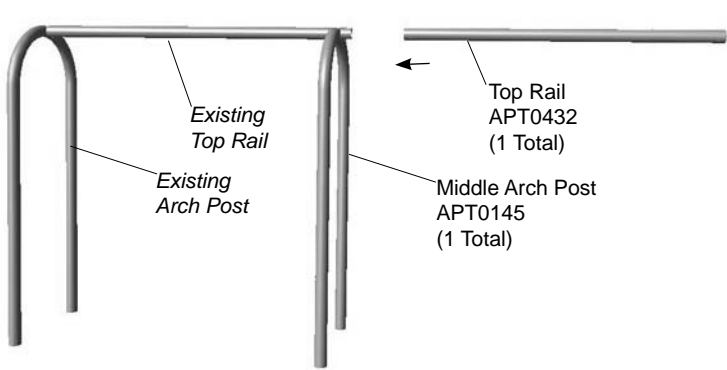


Elevation Views



# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

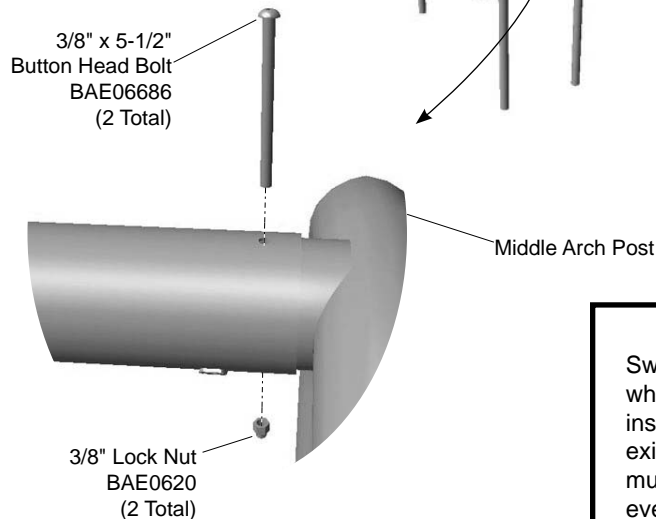


Underneath View

**Detail B**

**Step 7**

Secure the top rails to the middle arch post.



**Detail A**

**Step 5**

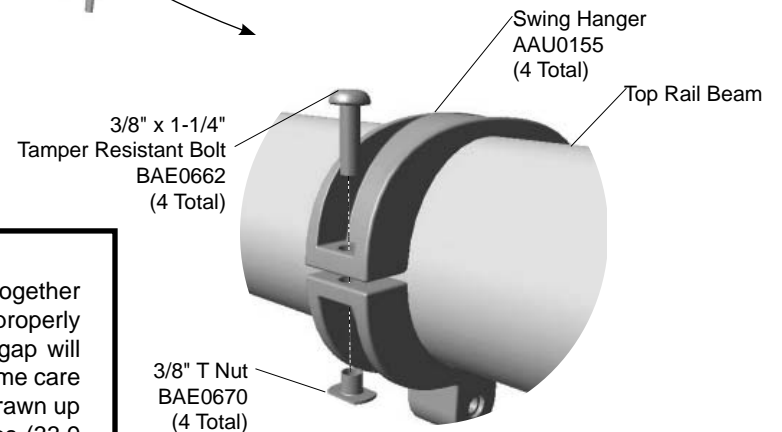
Attach both top rails (new and existing) to the middle arch support.

## 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.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

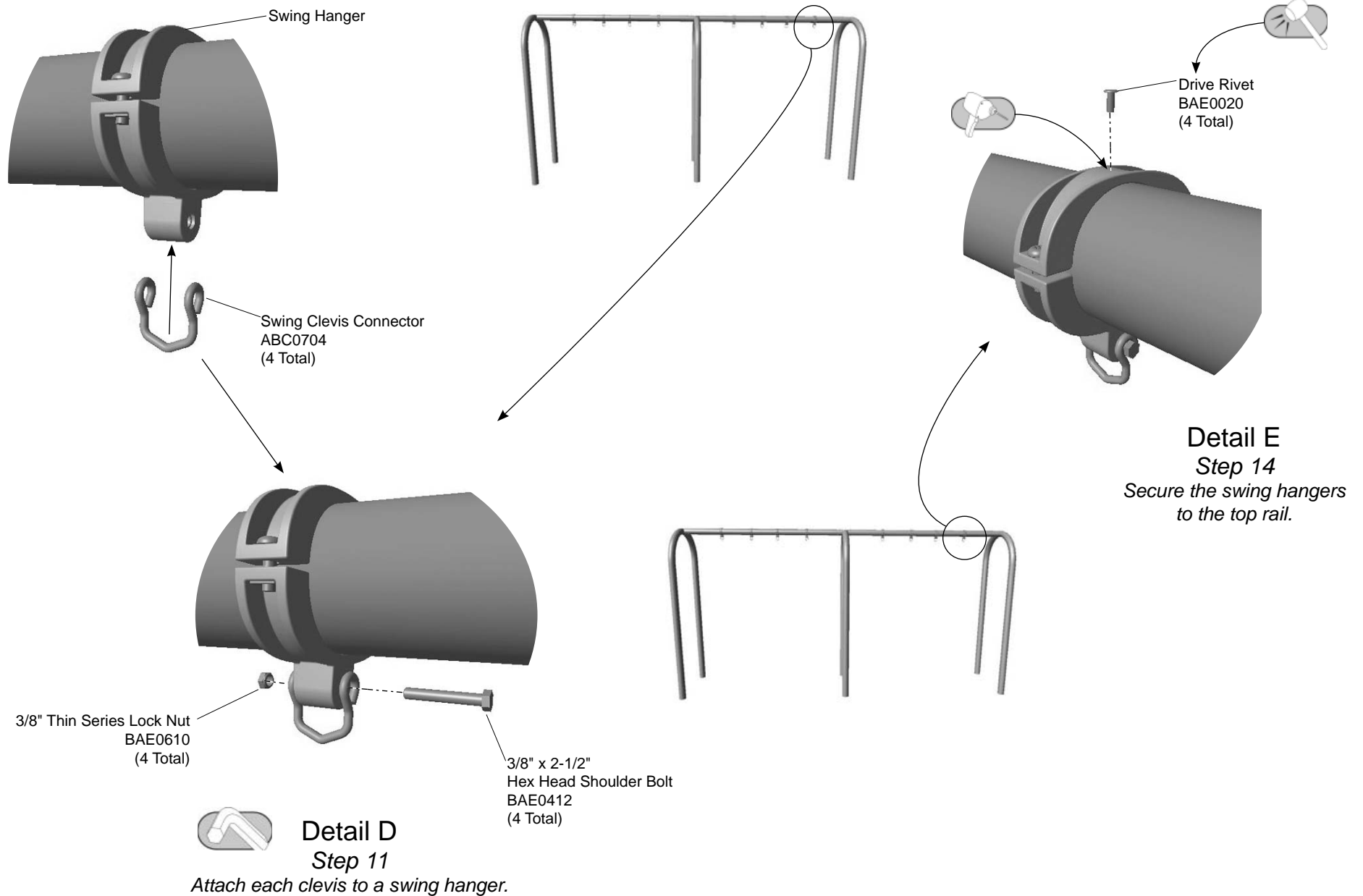
**Detail C**

**Step 10**

Attach swing hangers to the top rail.



# 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:** 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 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 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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.



# 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**

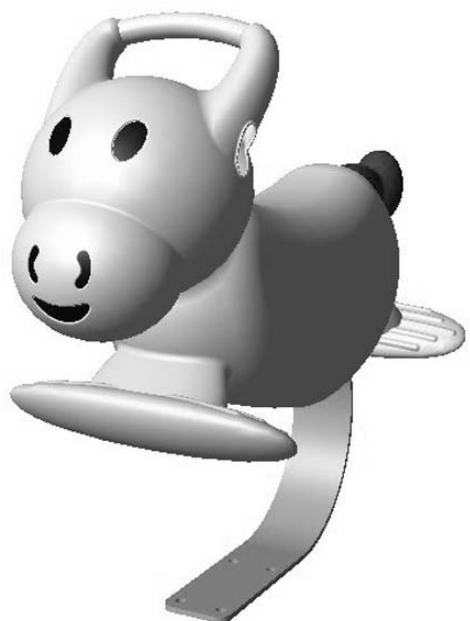
**P** = Pass    **F** = Fail  
**NA** = Not Applicable

Inspector: Name (Please Print) \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

### ***MAINTENANCE SCHEDULE***

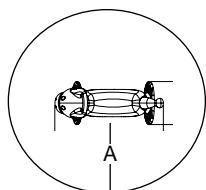
Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



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

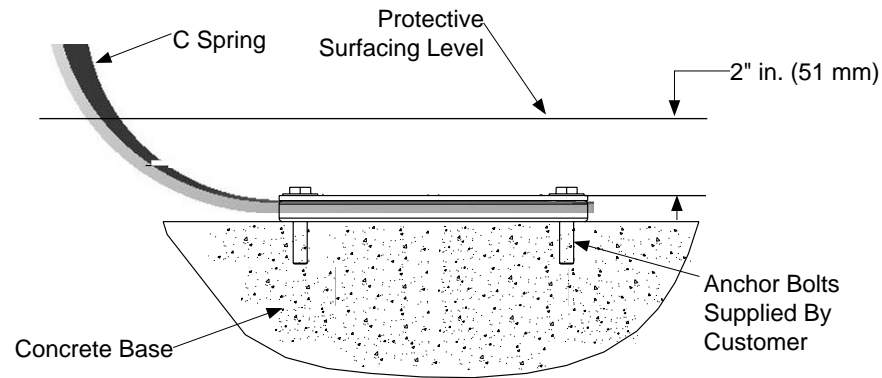
### Installation Preparation

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 <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions



C Spring Surface Mount Footing Detail

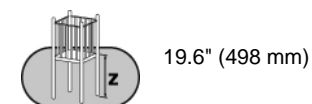
## FOOTING NOTES

- Footing size may vary due to local soil and weather conditions.
- The base of the footing must be below frost line.

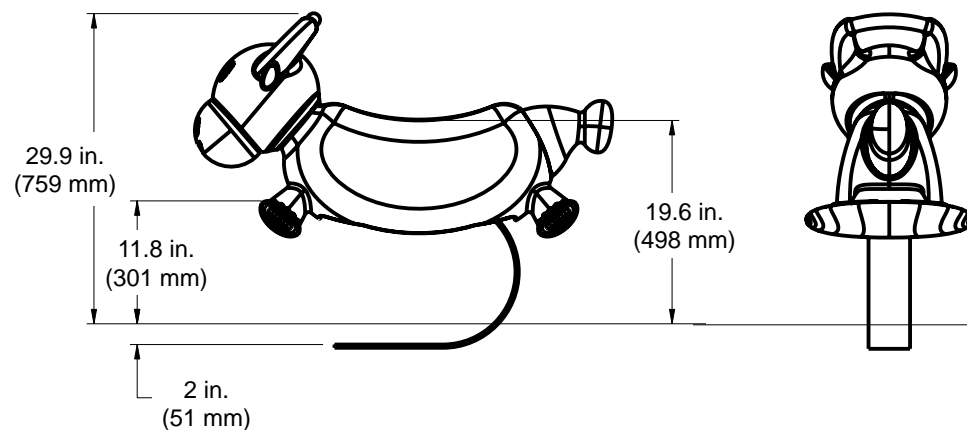
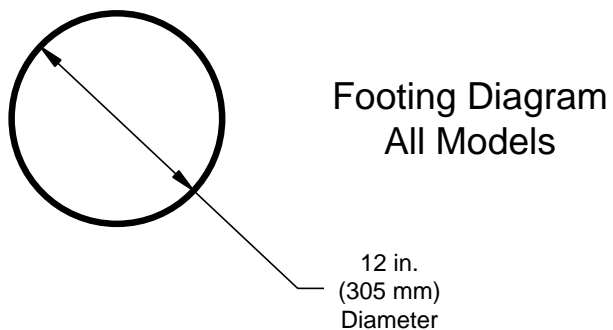
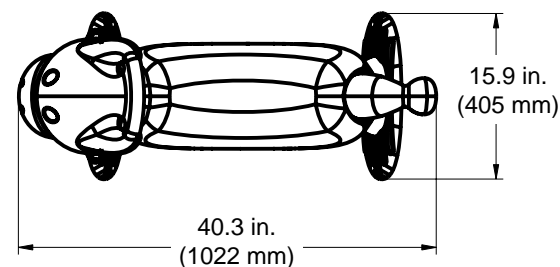
**Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.**

# 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)

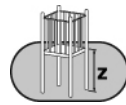


Top View



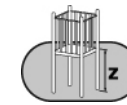
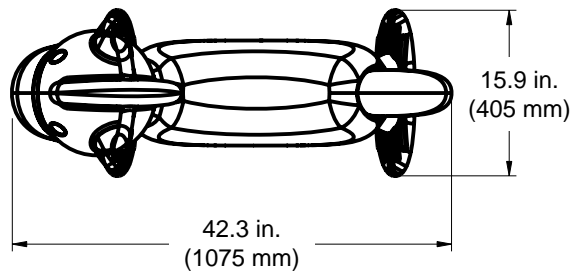
Elevation Views  
XX0561 & XX0562

# Installation Instructions



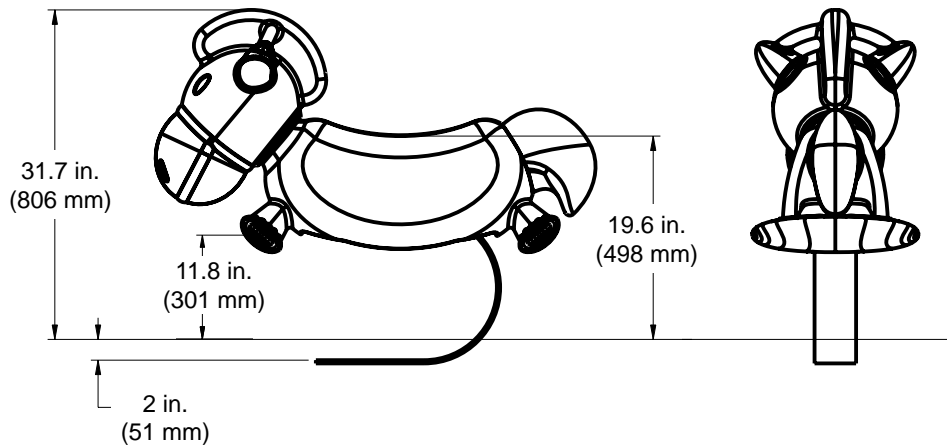
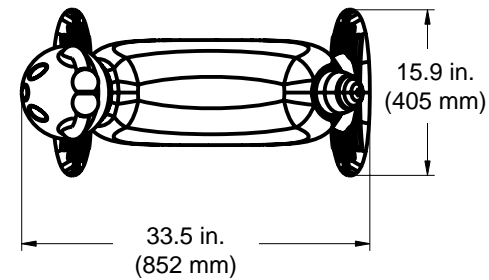
19.6" (498 mm)

Top View

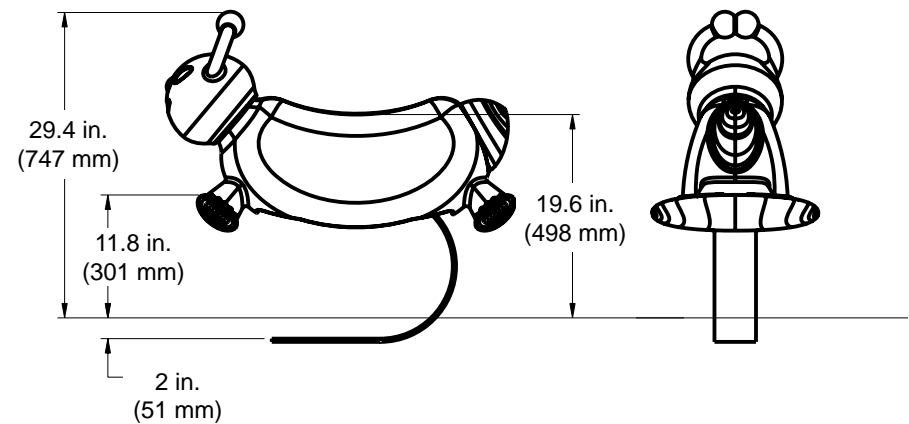


19.6" (498 mm)

Top View



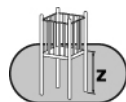
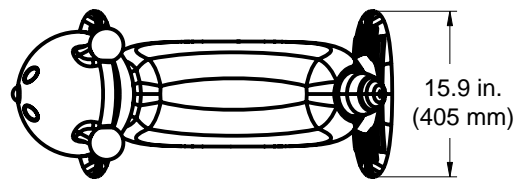
Elevation Views  
XX0563 & XX0564



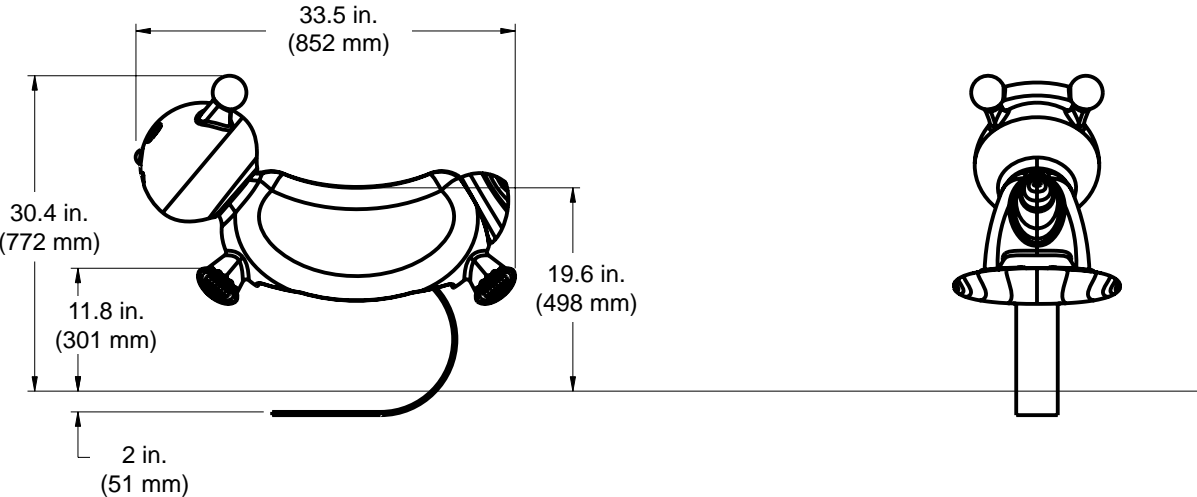
Elevation Views  
XX0565 & XX0566

# Installation Instructions

Top View



19.6" (498 mm)



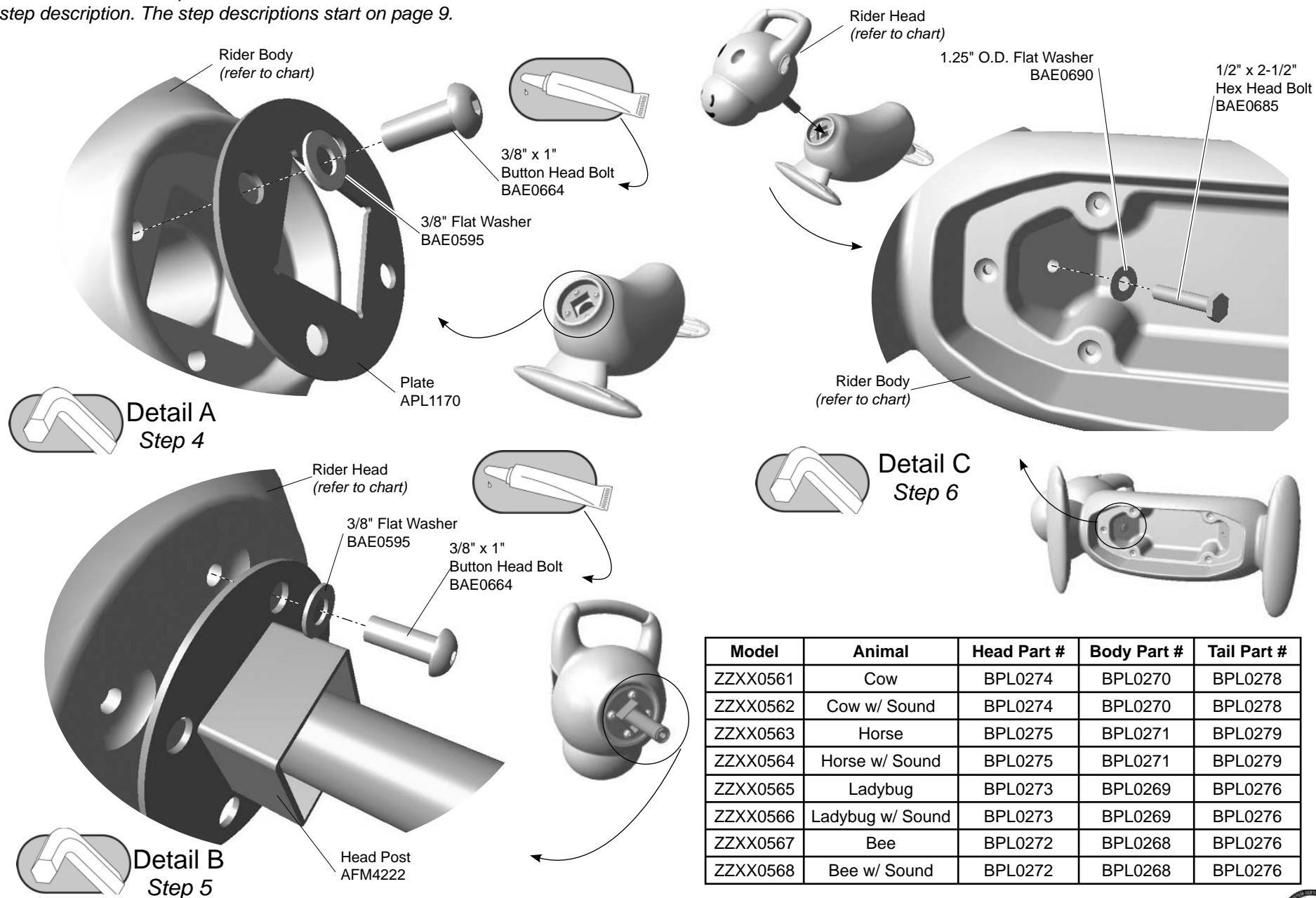
Elevation Views  
XX0567 & XX0568



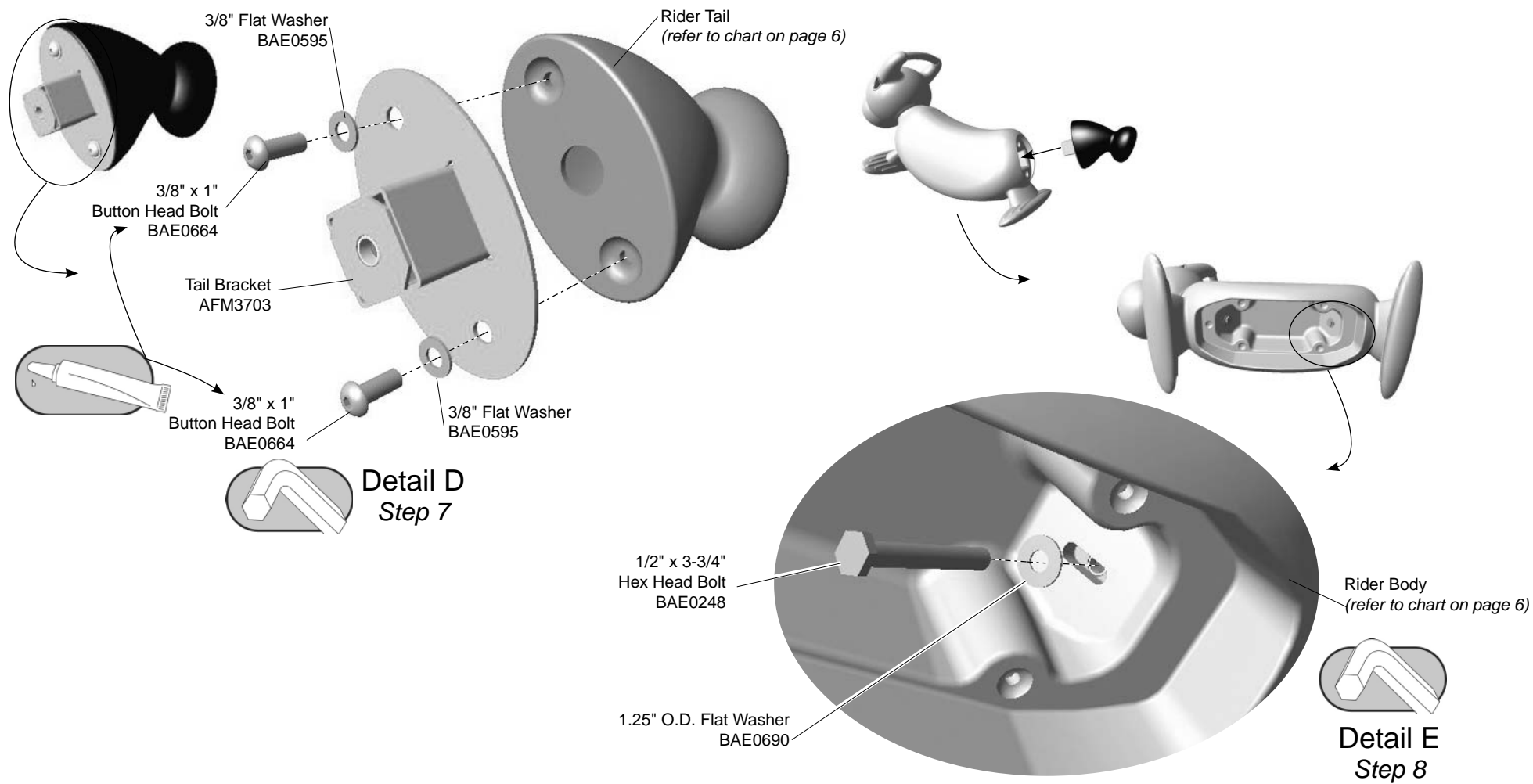


# Installation Instructions

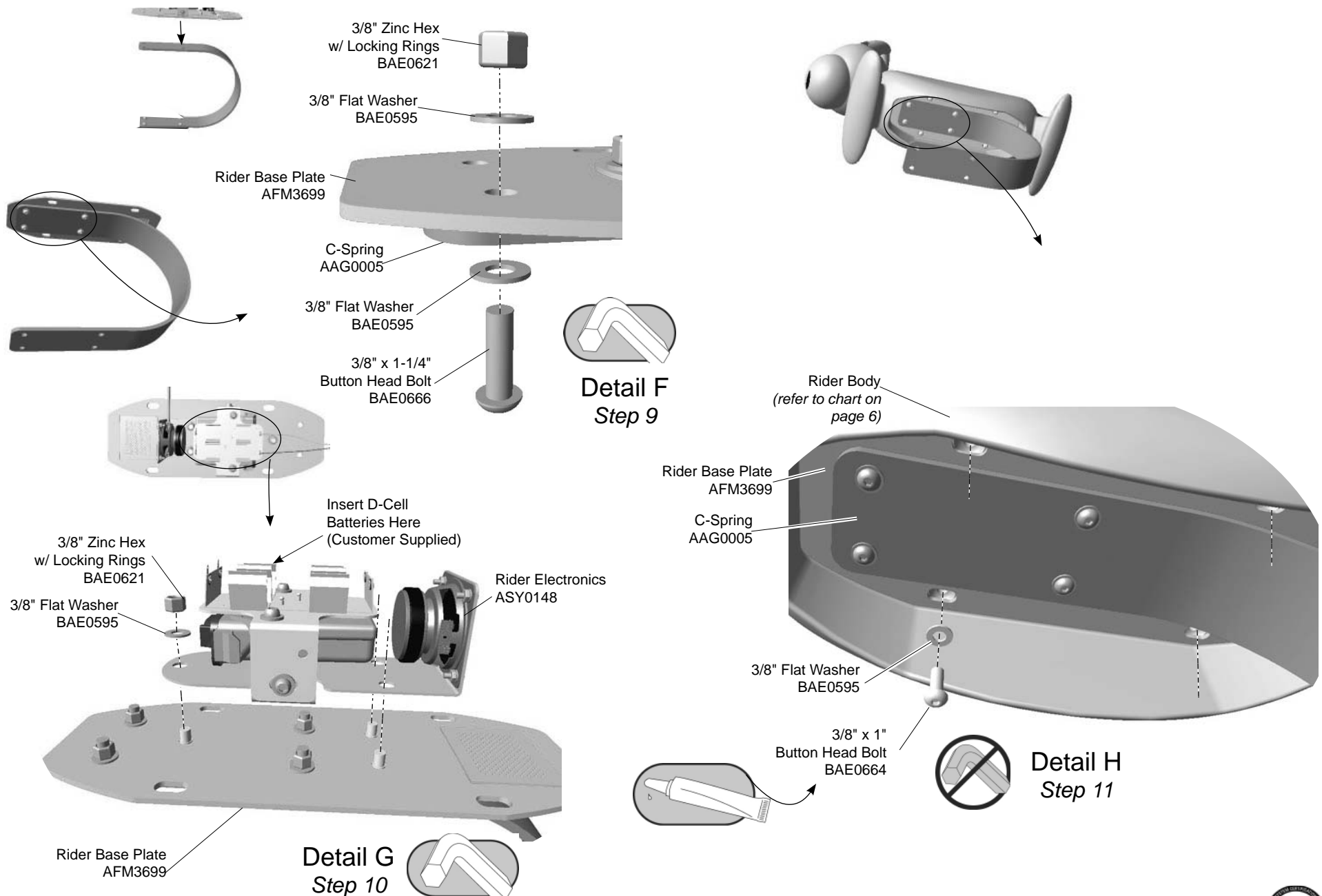
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



# Installation Instructions



# Installation Instructions



# Installation Instructions

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**\_\_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

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## 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.

## 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	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
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

## 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

## 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	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
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



#### 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.

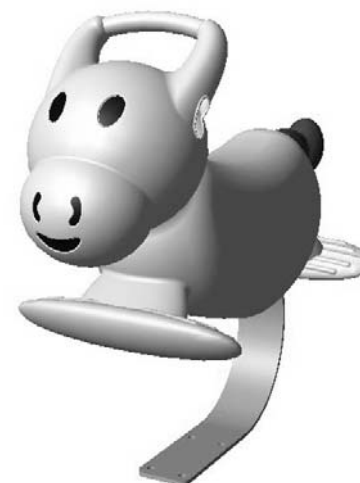
#### Surfacing

- 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: \_\_\_ / \_\_\_ / \_\_\_



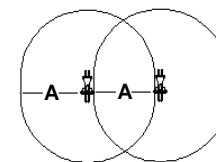
**Important ! Please Read Completely Before Beginning Installation.** According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging 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 absorbency. 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



# STEVENS STREET PARK

5 TO 12 YEAR OLD, OPTION #6

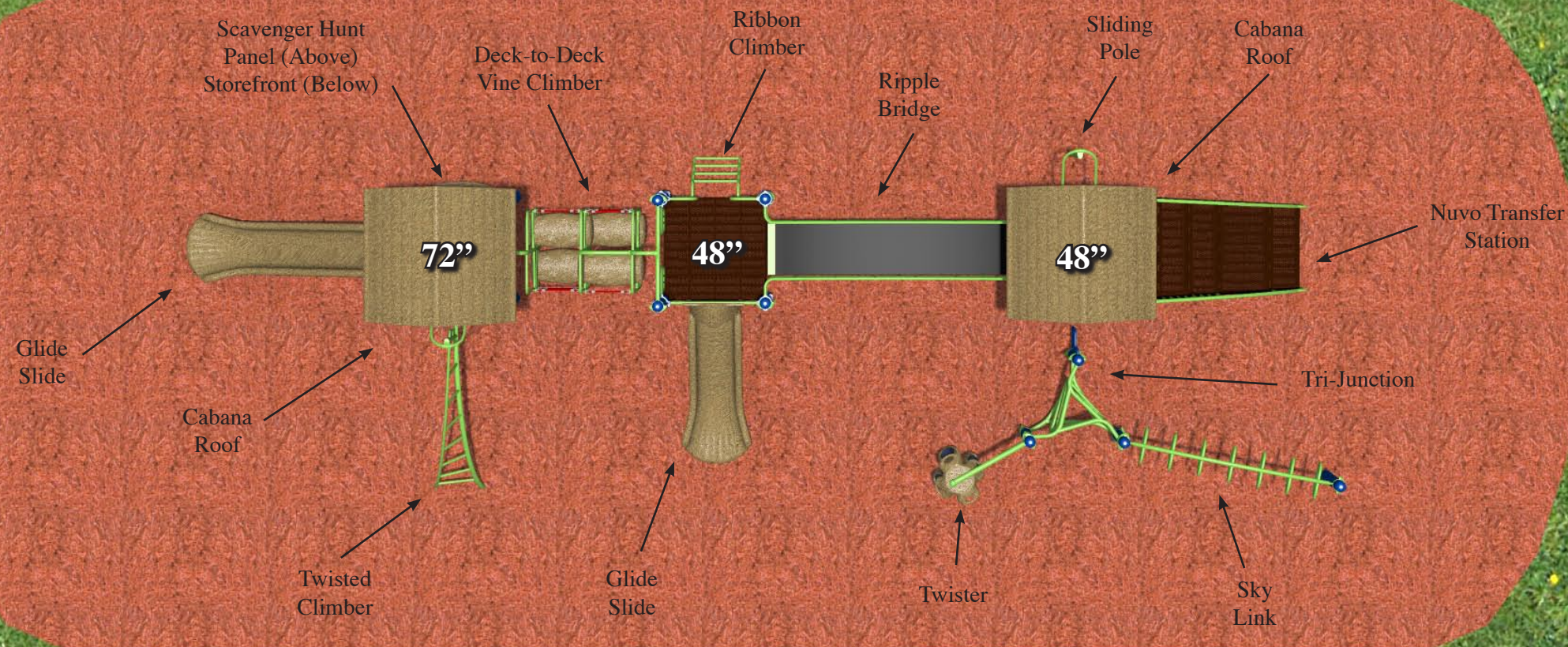
**LR**  
**LEE**  
**RECREATION LLC**  
PLAYGROUND & RECREATION EQUIPMENT  
P.O. Box 93  
Cambridge, WI 53523  
Phone: (800) 775-8937  
Fax: (608) 423-7655  
email: info@leerecreation.com  
www.leerecreation.com





# STEVENS STREET PARK

5 TO 12 YEAR OLDS, OPTION #6



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: PW121514

Use Zone:

# of Users: 44

# of Active Play Events: 13

Age: 5 to 12

Colors Shown:



Blue



Brownstone

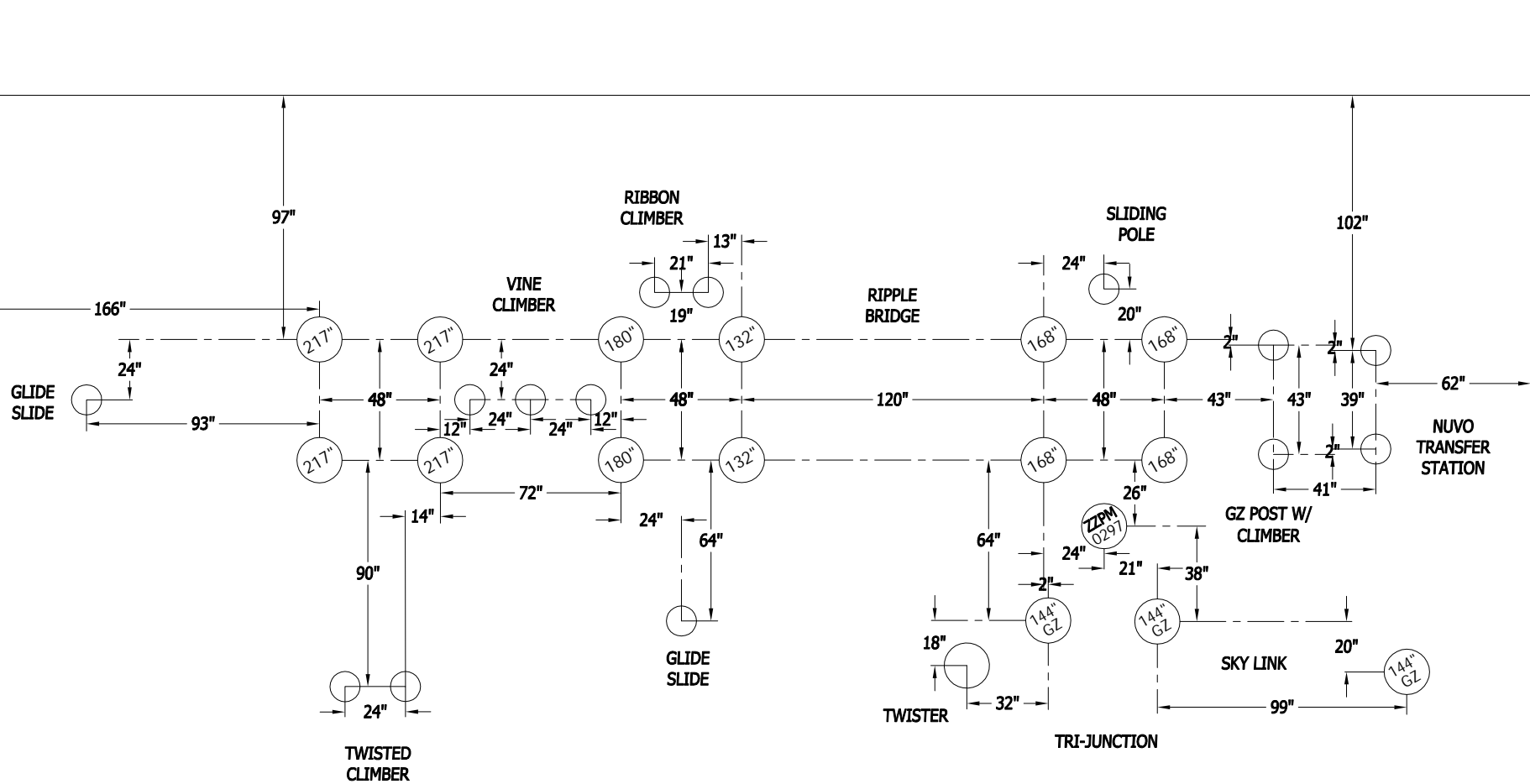


Lime

**PLAYWORLD  
SYSTEMS®**  
The world needs play.®



\*Playground Supervision Required



PROJECT NO: SS6-1-3.LEE	REV: -	DATE: 08-JAN-15
SYSTEM: PLAYMAKERS	SCALE: 3/16" = 1'-0"	
FOOTING PLAN	DRAWN BY: DANA GRUBBS	

LEE RECREATION  
809 Bluebird Pass  
Cambridge, WI 53523

PLAYWORLD<sup>TM</sup>

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FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3659mm) INDICATES POST LENGTH)

# STEVENS STREET 6-1-3

FOOTINGS ONLY



## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

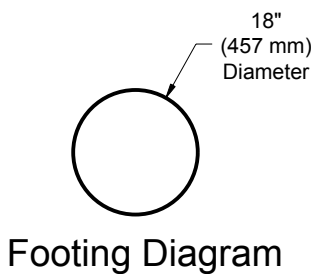
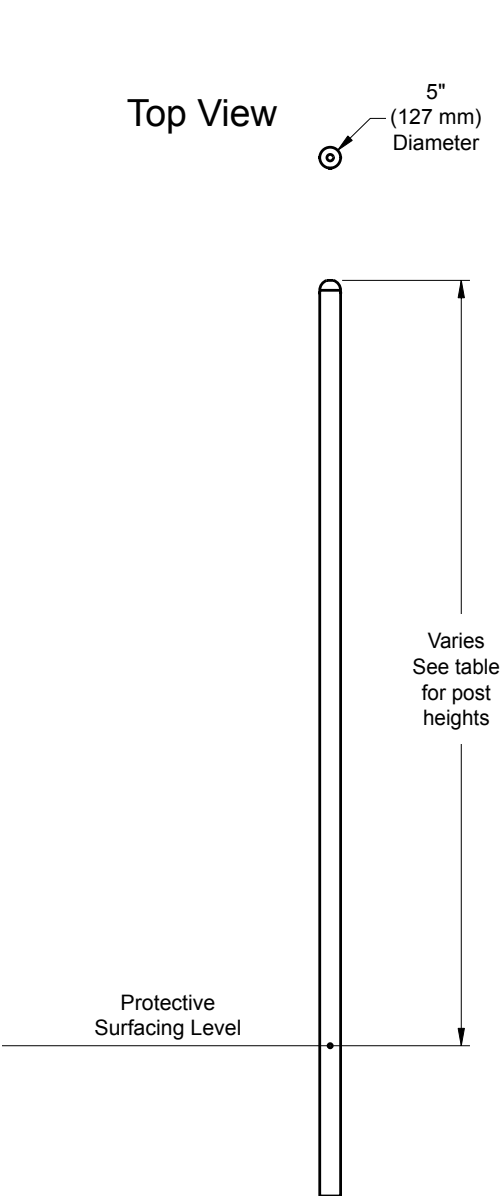


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## Installation Instructions

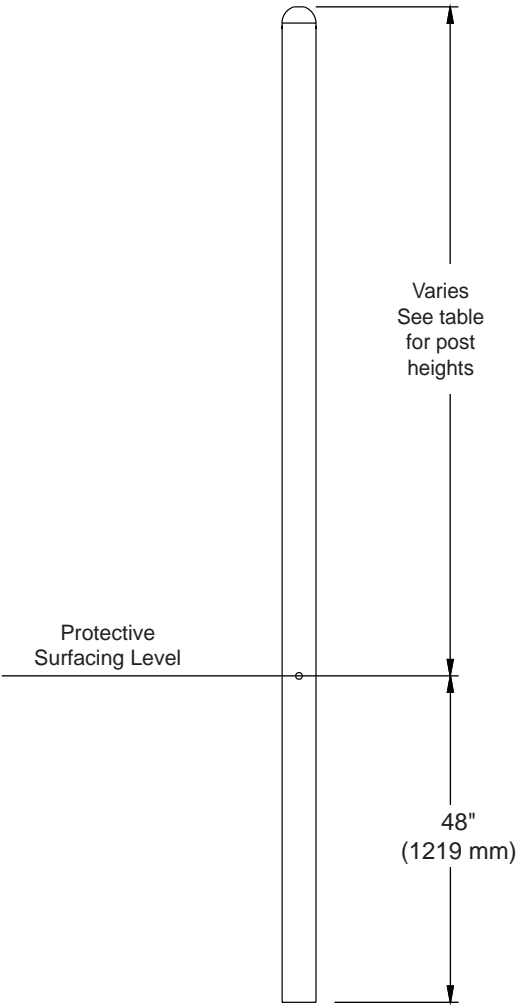
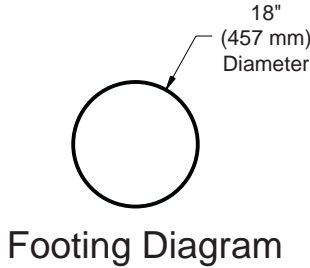
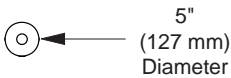
Playmakers® Models PM0008GZ,  
PM0036GZ, PM0056GZ, & PM0066GZ  
GroundZero® Steel Support Post w/ Cap  
108 in. (2743 mm), 144 in. (3658 mm),  
168 in. (4267 mm), & 180 in. (4623 mm)

## 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.



## 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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Assembly View *(representative model)*

## Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,  
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,  
PM0136A, PM0138A, PM0267A, PM0269A

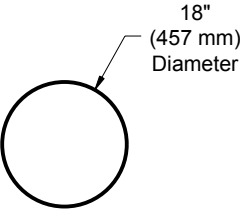
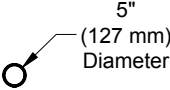
Aluminum Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

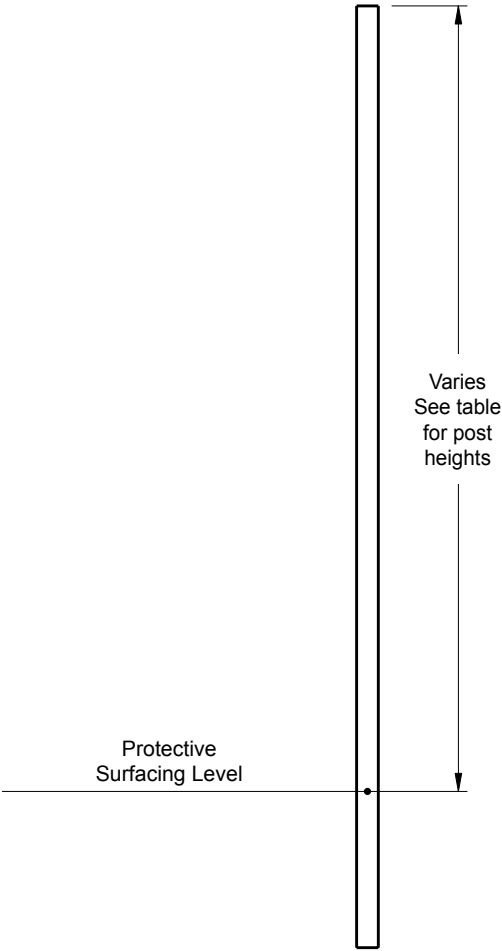
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 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

## PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



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## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

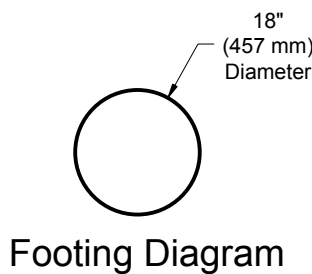
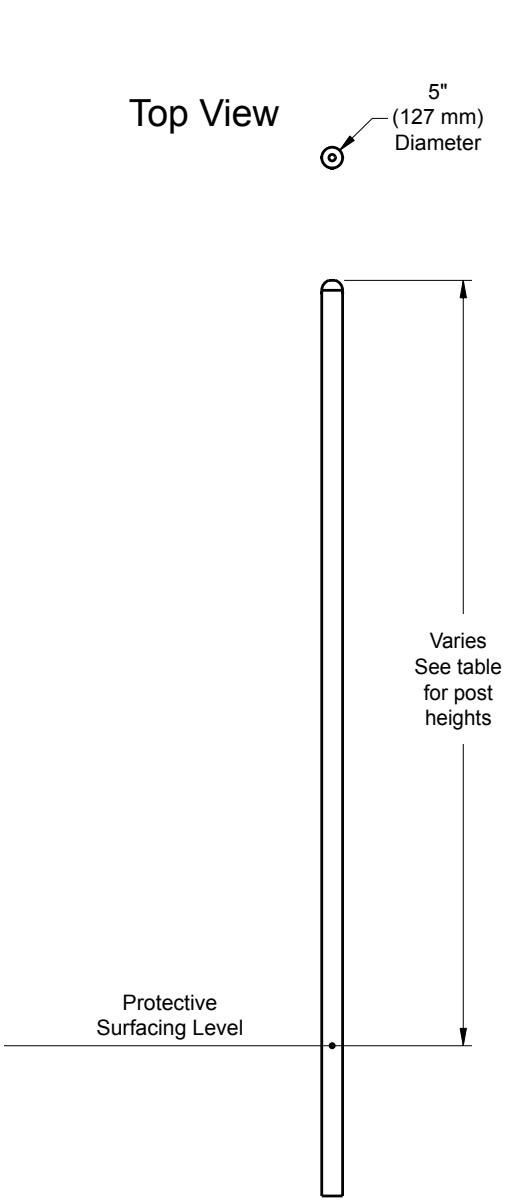


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## Installation Instructions

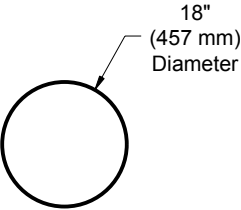
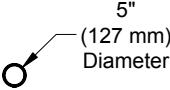
Playmakers® Models PM0017, PM0027, PM0037,  
PM0047, PM0057, PM0067, PM0079, PM0129,  
PM0136, PM0138, PM0267, PM0269  
Steel Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

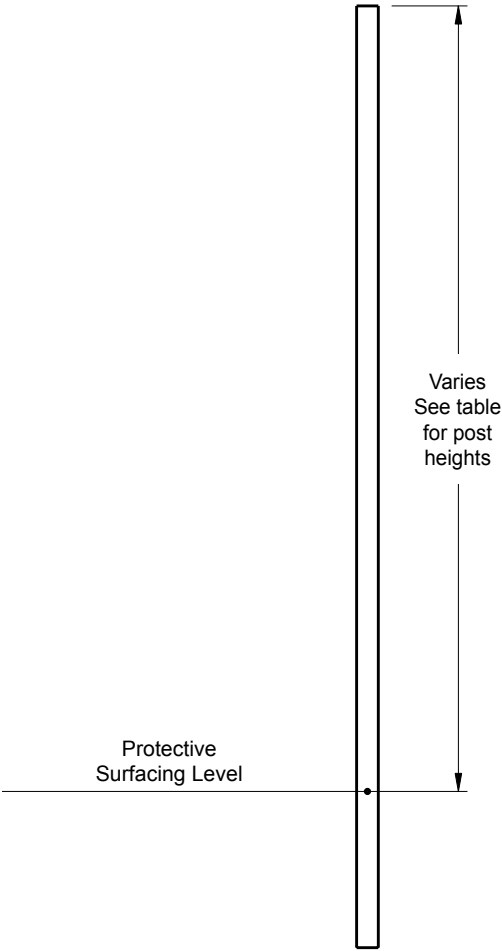
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
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)



# 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)

PART NO.	DESCRIPTION	QTY.
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBL AT 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/ LBL AT 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/ LBL AT 36"	1

## PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBL AT 36"	1

## PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBL AT 36"	1

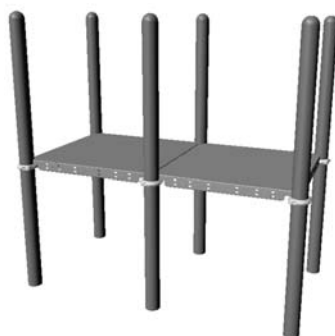


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## Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616  
Square Deck



ZZPM0629  
Long Deck

Assembly View

### Installation Preparation

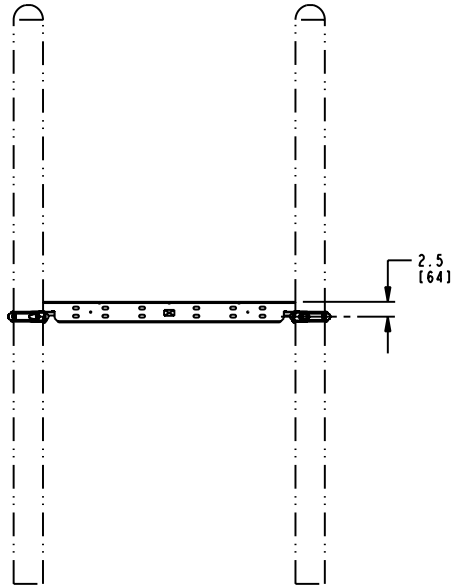
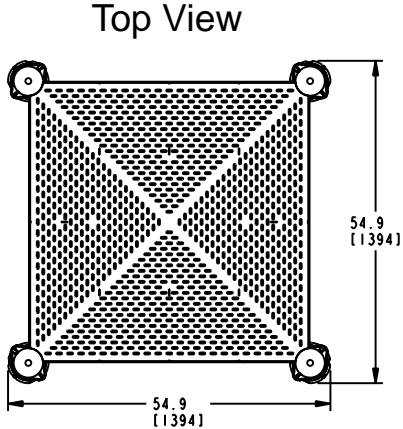
Recommended Crew (PM0616):..... Two (2) adults  
Recommended Crew (PM0629):..... Four (4) adults  
Installation Time (PM0616): ..... 1 man-hour  
Installation Time (PM0629): ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

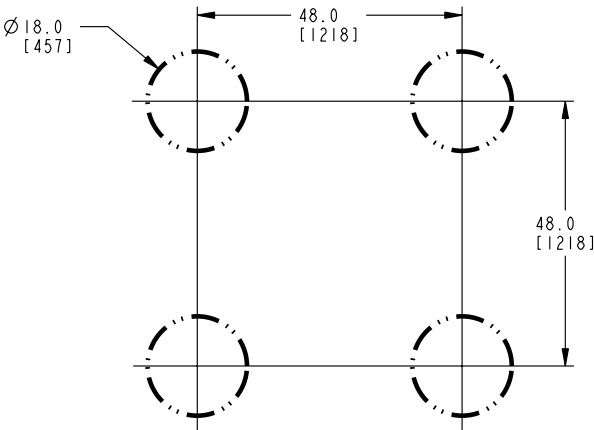
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

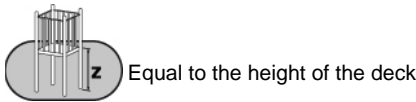
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0616

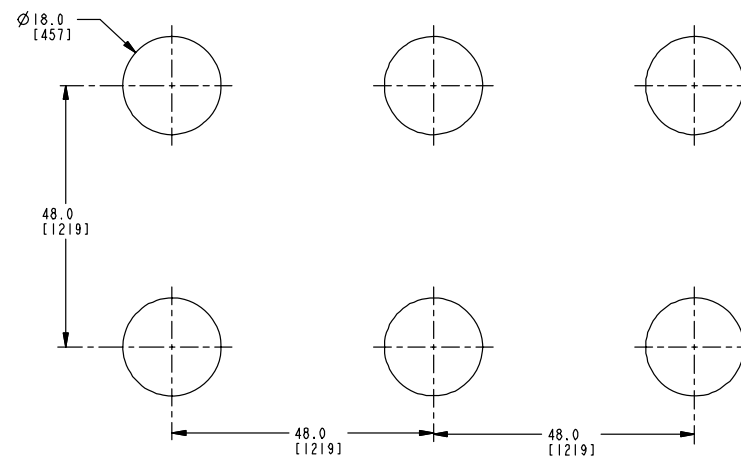
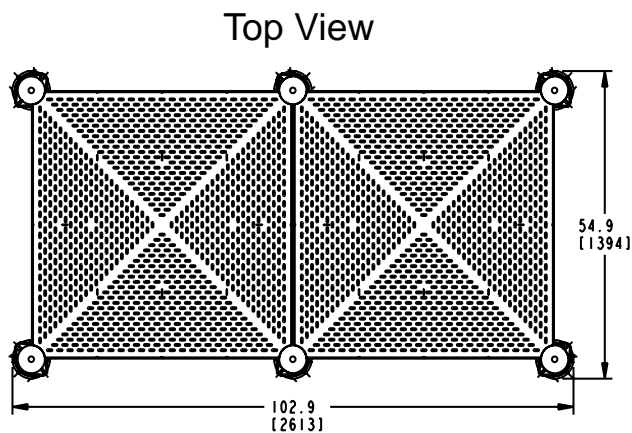


Footing Diagram

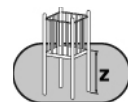
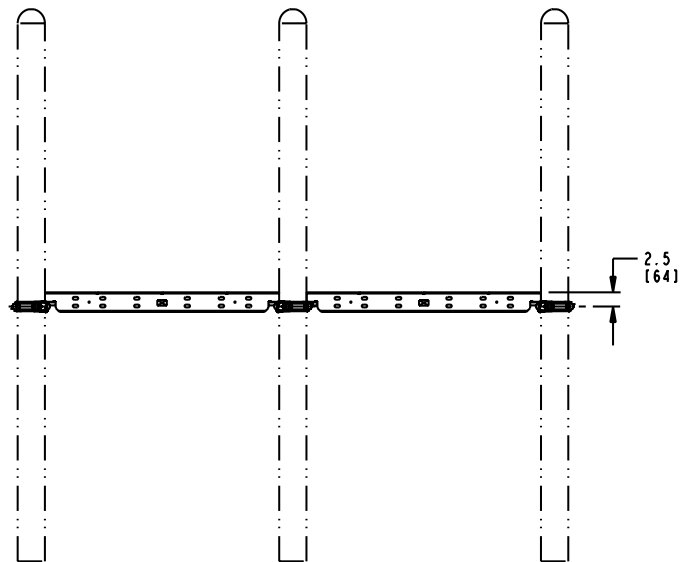


# Installation Instructions

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



Footing Diagram



Equal to the height of the deck

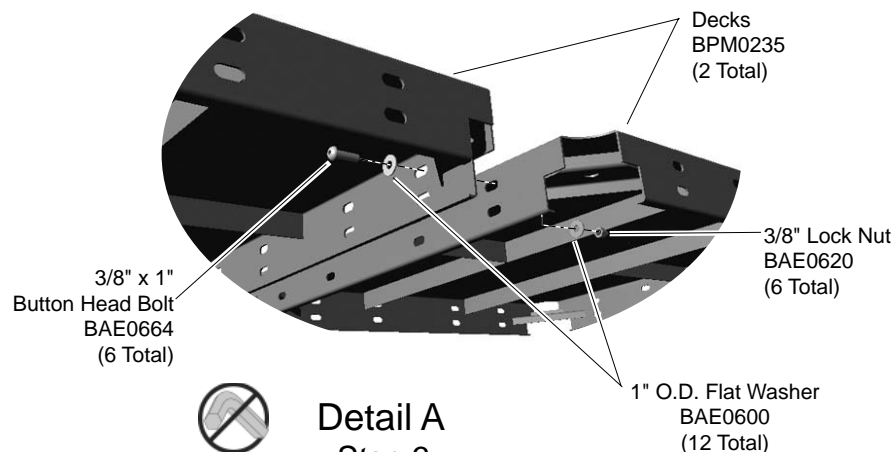
Elevation View  
Model PM0629





# Installation Instructions

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

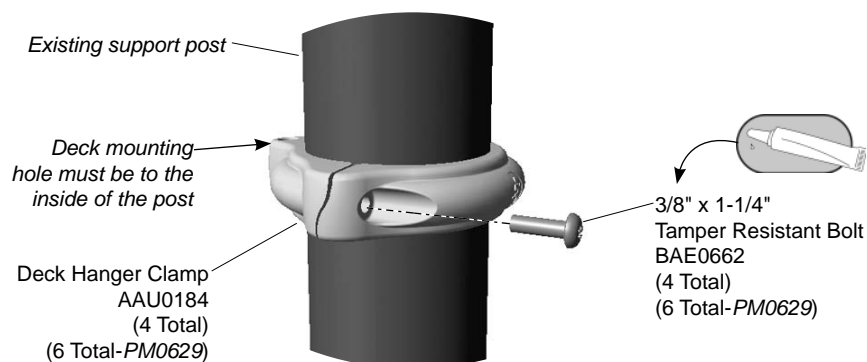


## Detail A

### Step 3

(Model PM0629 Only)

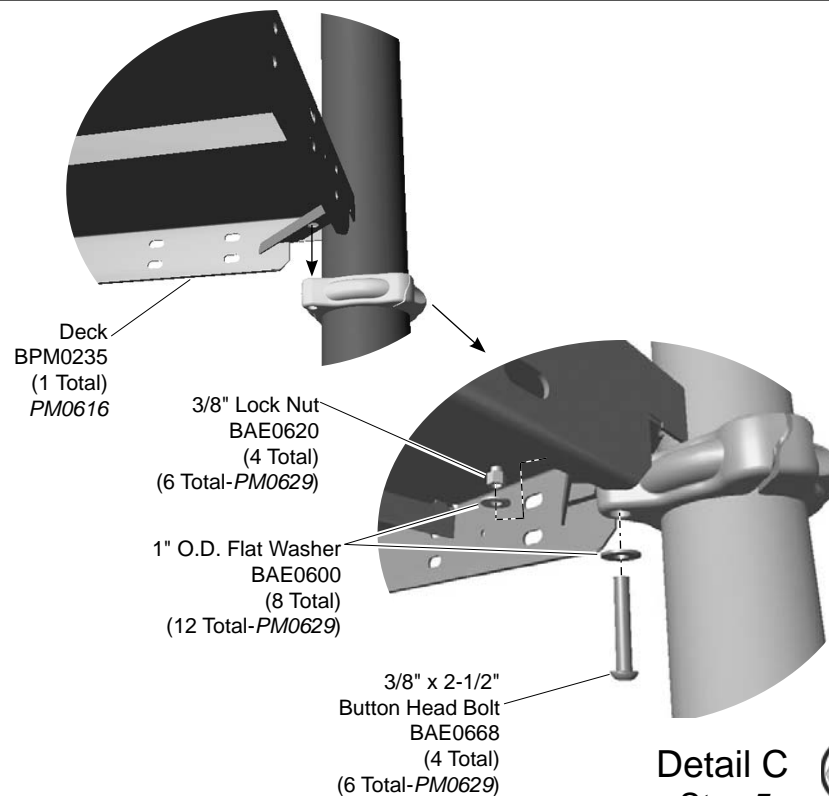
Attach the two decks together.



## Detail B

### Step 4

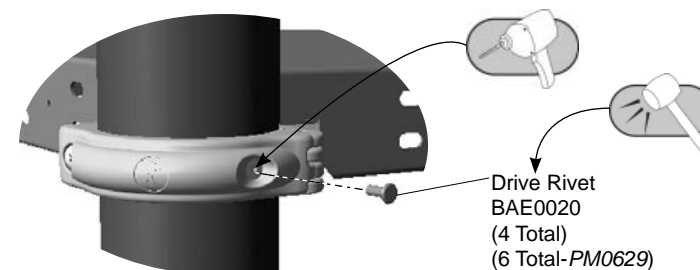
Attach the deck clamps to the  
support posts.



## Detail C

### Step 5

Attach the decks to the clamps.



## 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
BPM0235	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
BPM0235	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

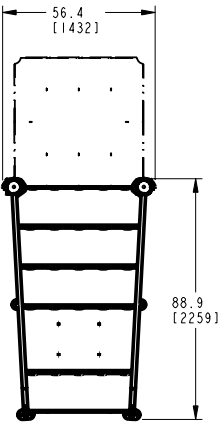
Recommended Crew: ..... Two (2) adults  
Installation Time (In-ground): ..... 3.5 man-hours  
Installation Time (Surface Mount): ..... 1.5 man-hours  
Concrete Required: ..... 0.12 cubic yard (0,08 cubic meters)  
Use Zone: ..... Refer to the master layout drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

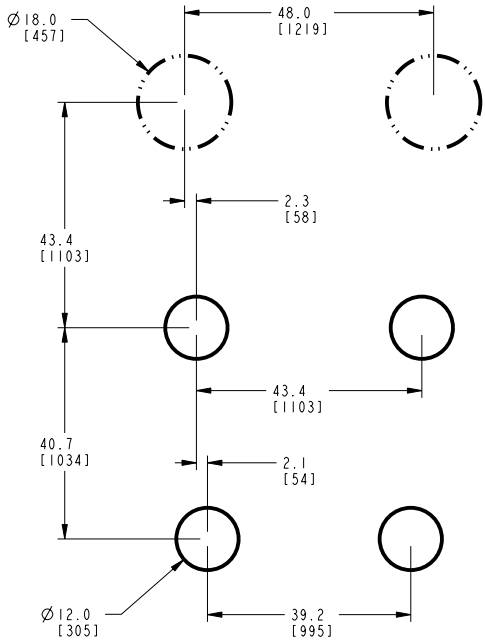
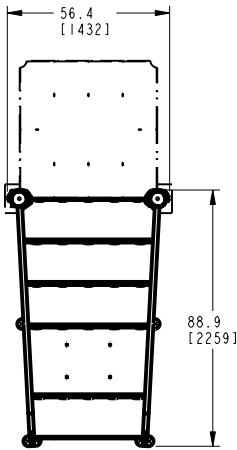
# Installation Instructions

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

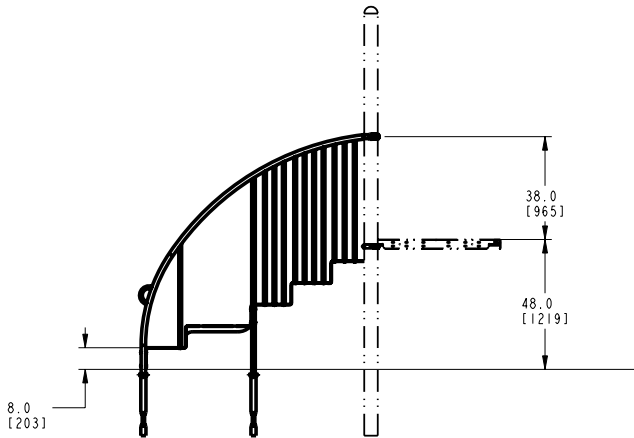
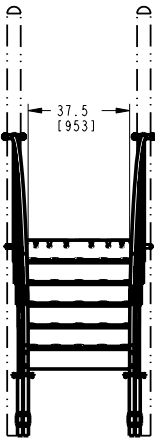
Top View



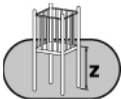
Top View



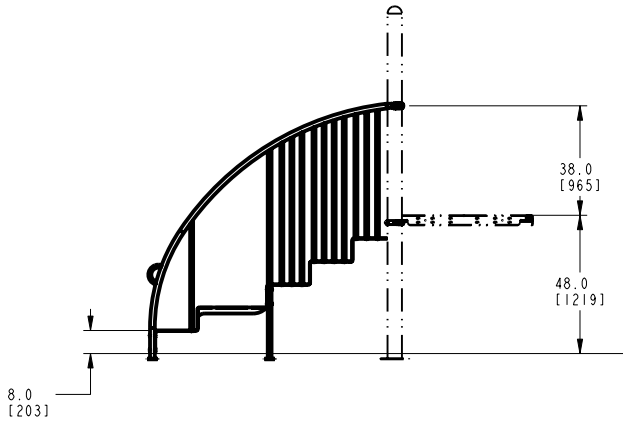
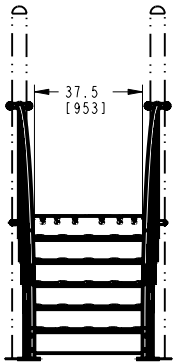
Footing Diagram  
Both Models



Elevation Views  
PM0678



48" (1219 mm)

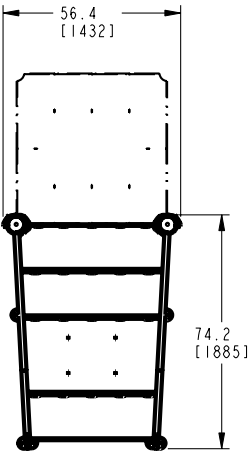


Elevation Views  
PM0678S



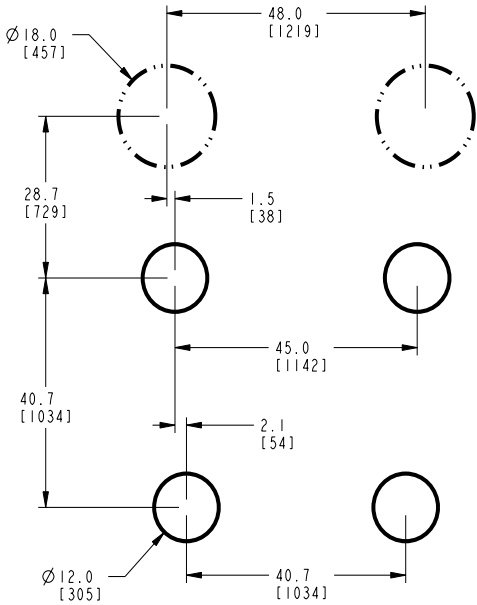
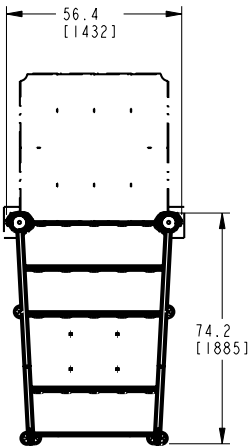
# Installation Instructions

Top View

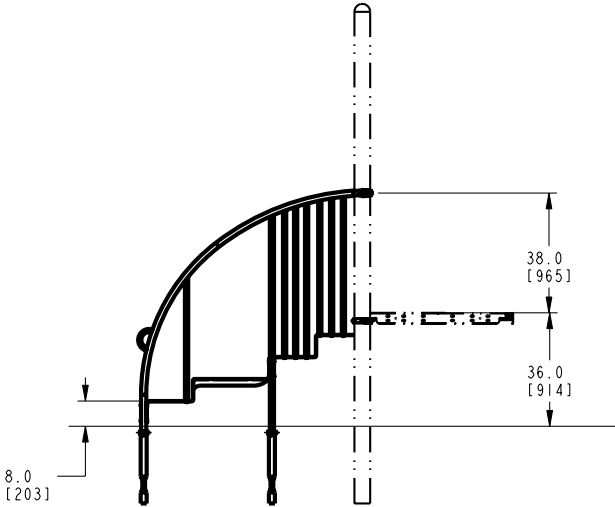
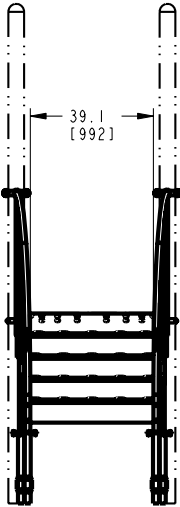


KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

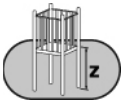
Top View



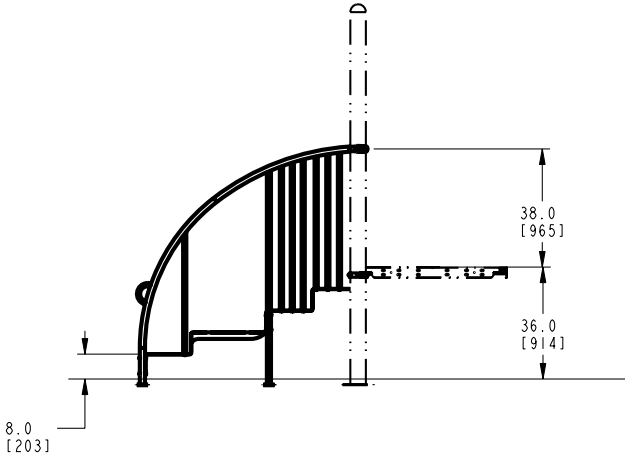
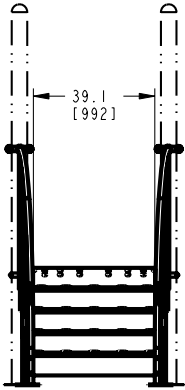
Footing Diagram  
Both Models



Elevation Views  
PM0679



36" (914 mm)

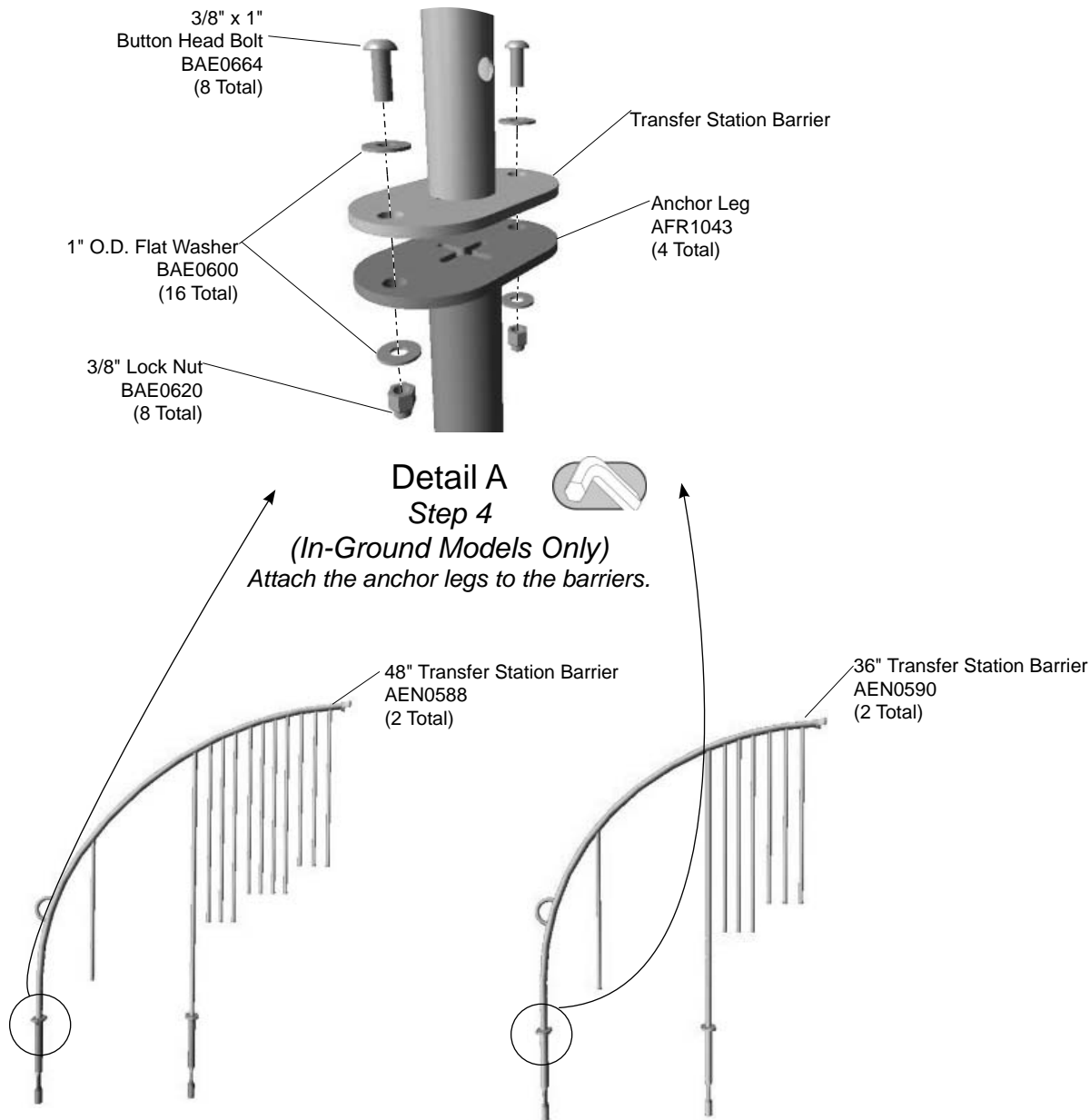


Elevation Views  
PM0679S

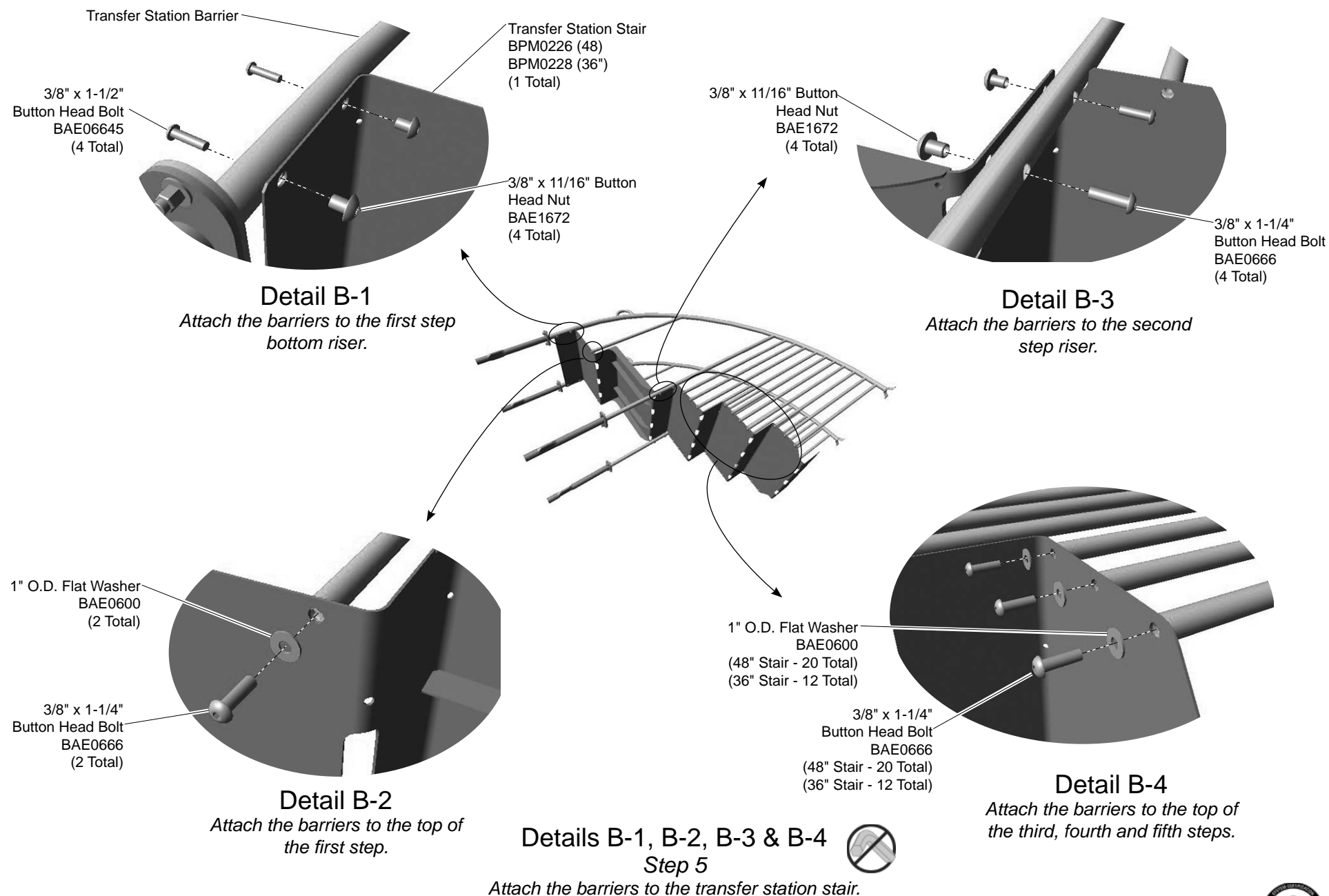


# Installation Instructions

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

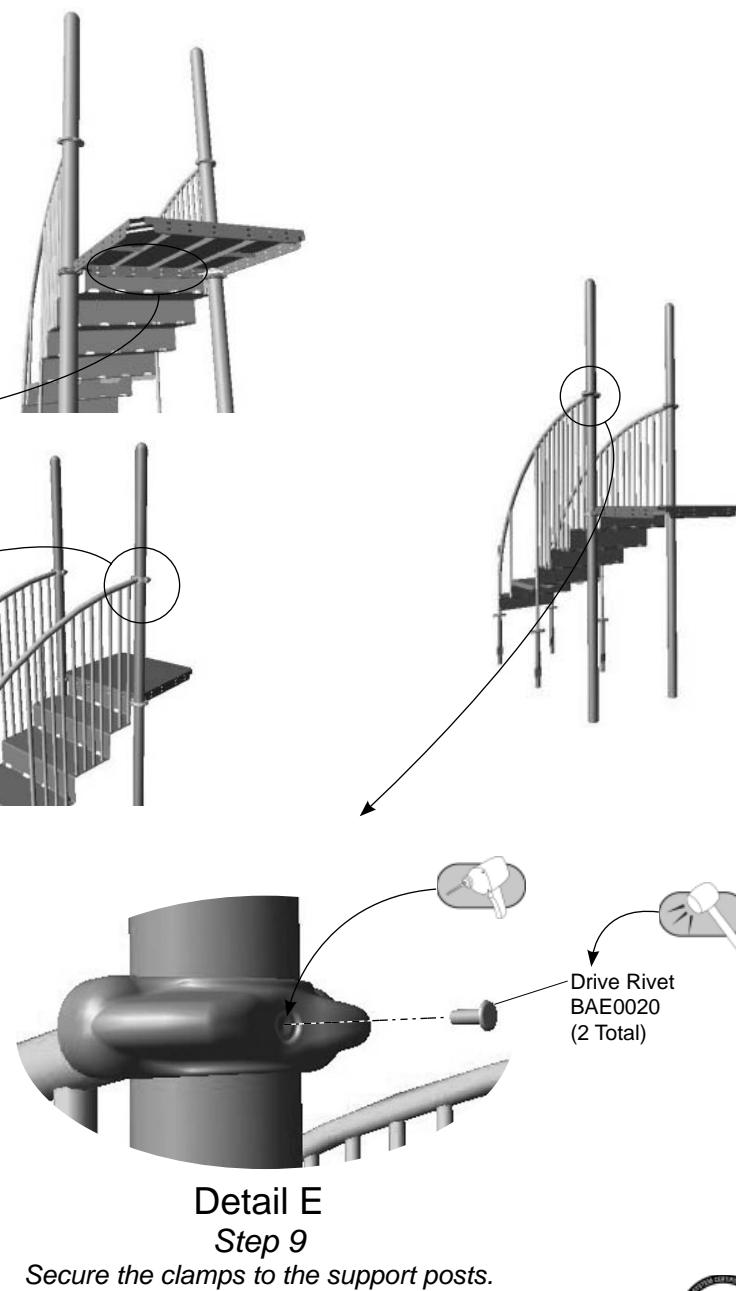
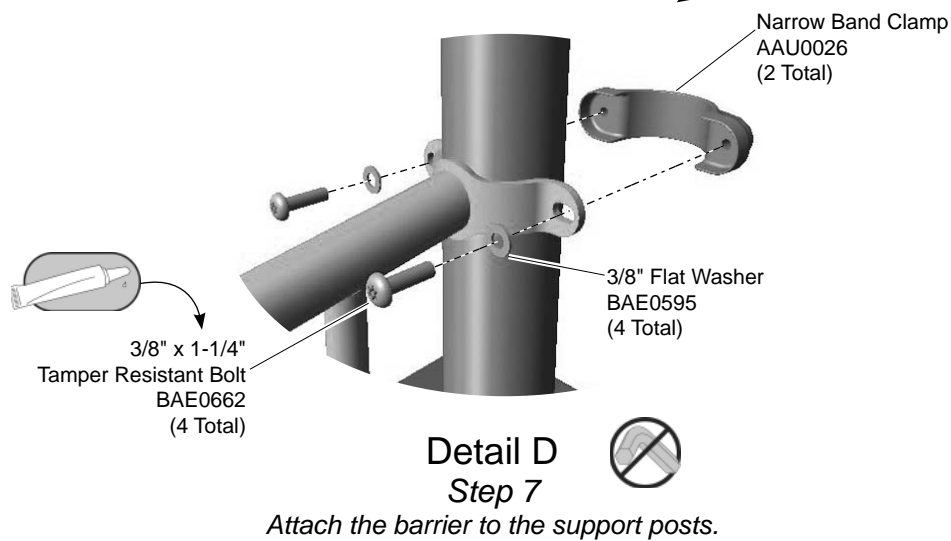
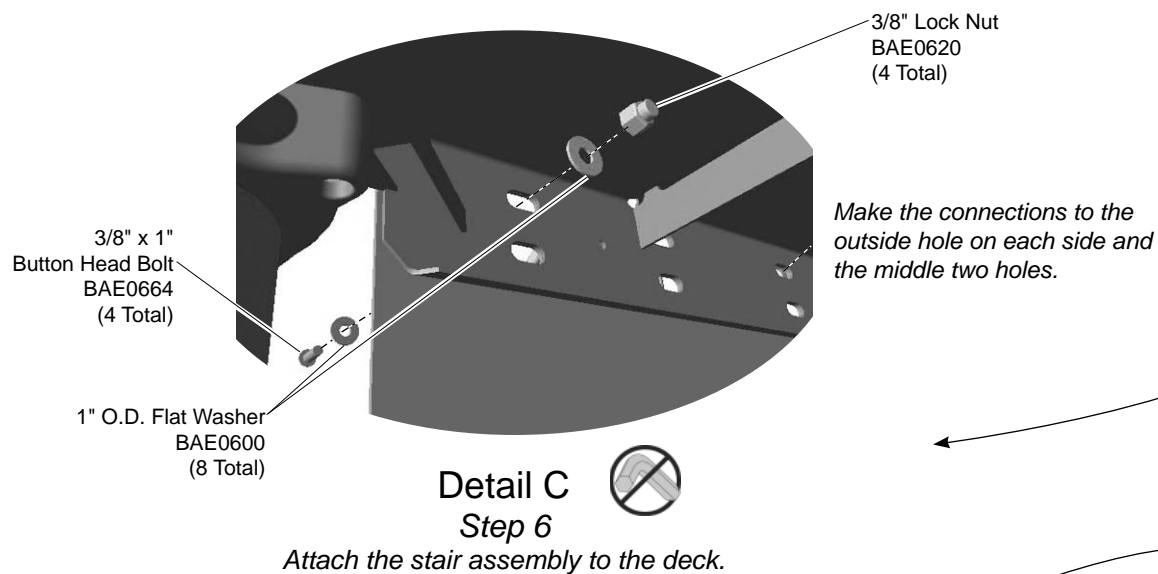


# Installation Instructions





# 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, its 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.

## PM0678 - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0588	BARRIER - 48" NUVO TRANSFER STATION (PM)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
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	46
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
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

## 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

## PM0679 - NUVO™ TRANSFER STATION 36 in. (914 mm) DECKS

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AEN0590	BARRIER - 36" NUVO TRANSFER STATION (PM)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
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	38
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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
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

## 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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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 Instructions

### Playmakers®

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

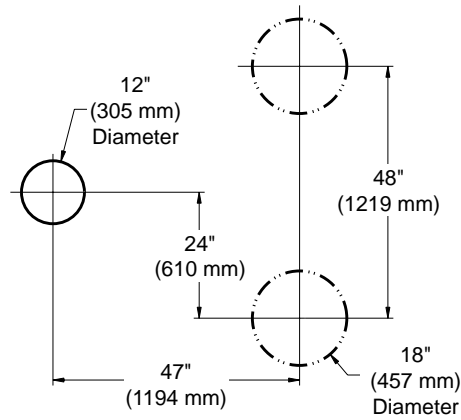
### Installation Preparation

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

### ICON KEY

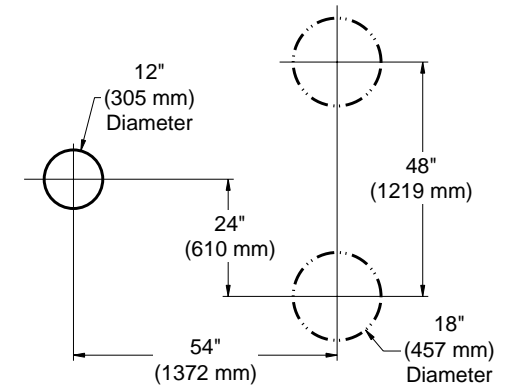
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

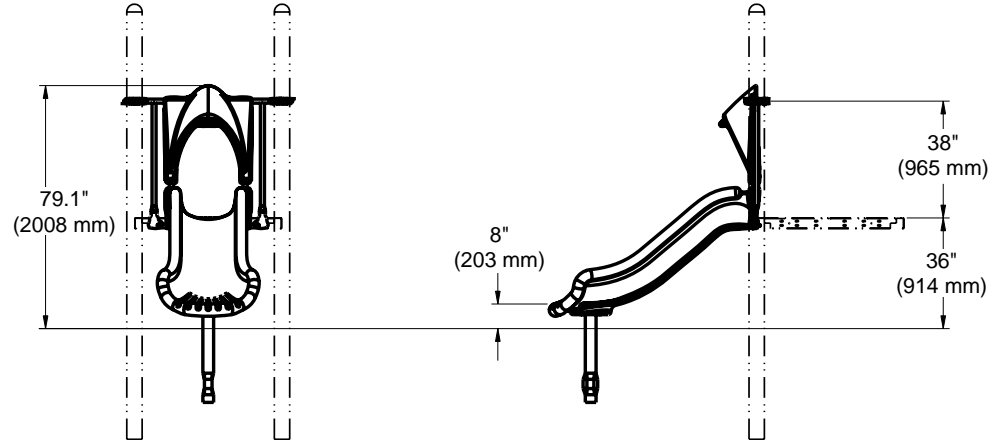
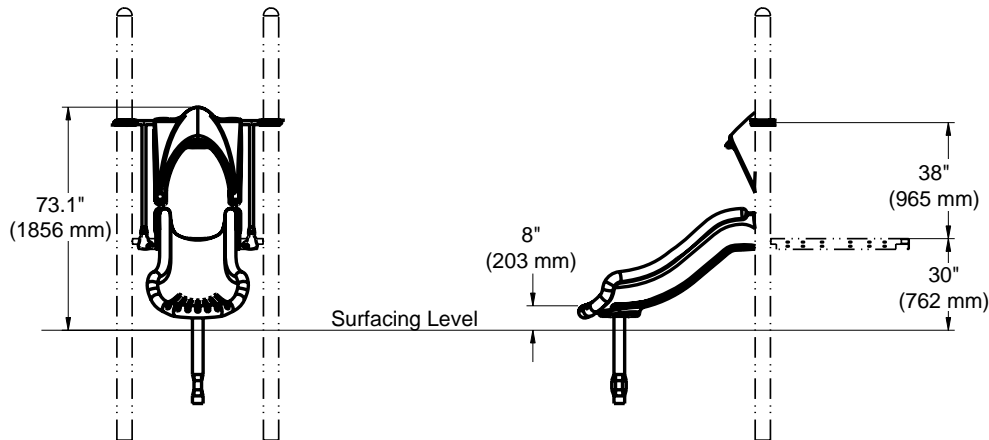
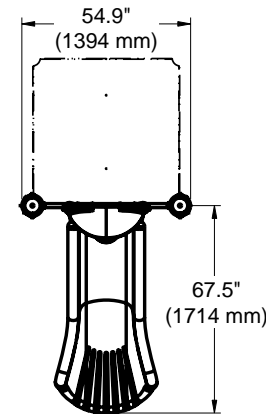
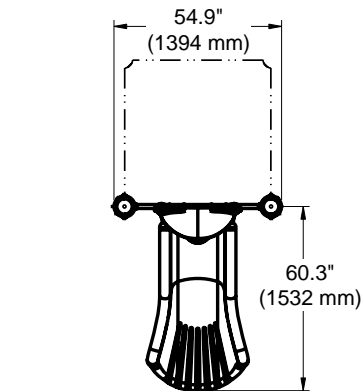


**Footing Diagram**

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



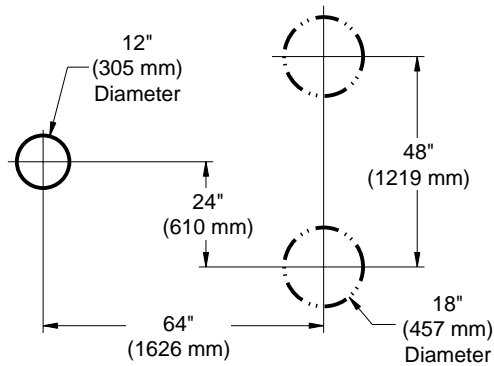
**Footing Diagram**



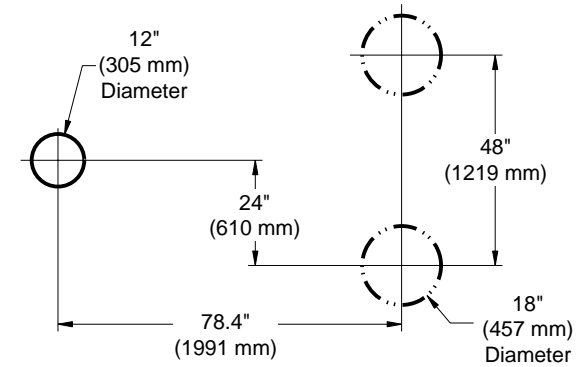
**Elevation View PM3128 - 30" Glide Slide**  
*(24" slide: exit will be 2" (50mm) above the surfacing level)*

**Elevation View PM3127 - 36" Glide Slide**

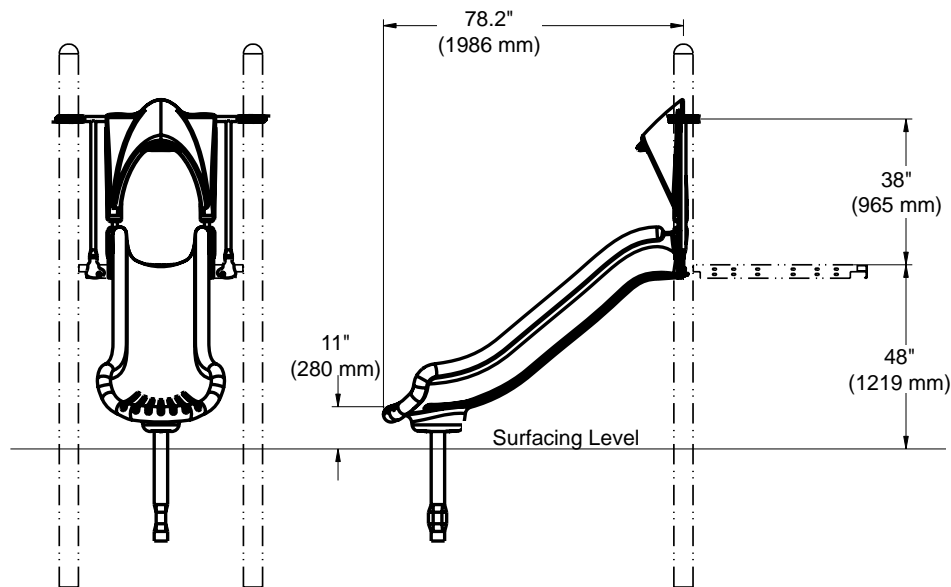
# Installation Instructions



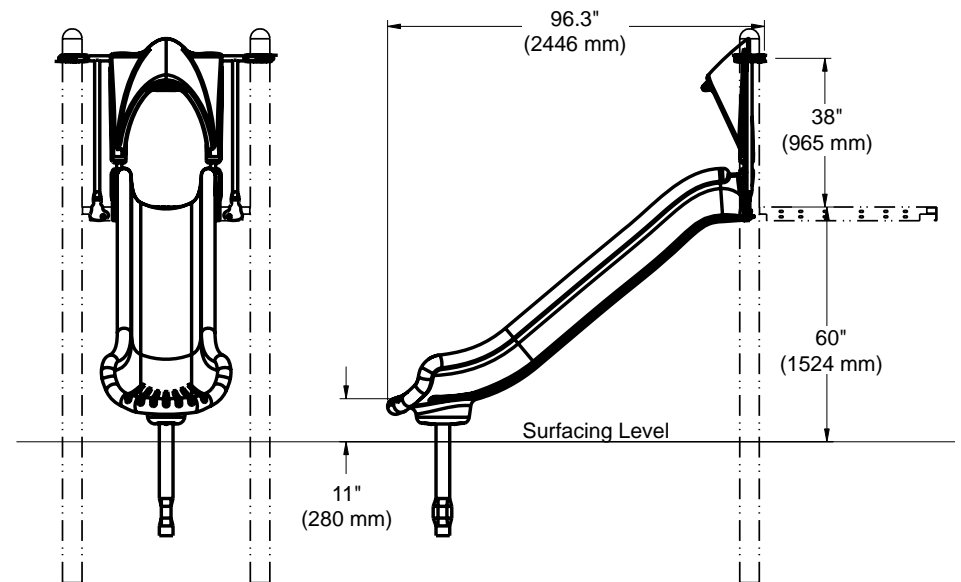
Footing Diagram



Footing Diagram

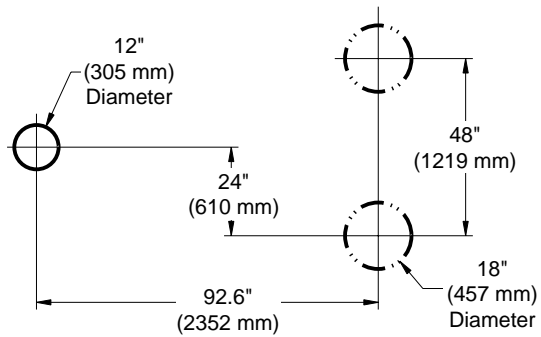


Elevation View PM3126 - 48" Glide Slide

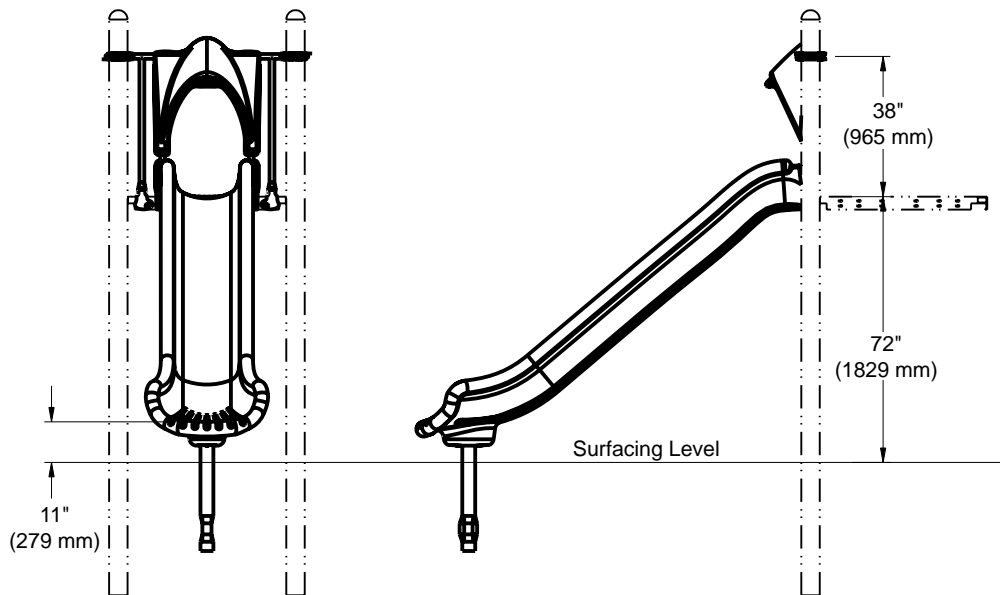


Elevation View PM2658 - 60" Glide Slide

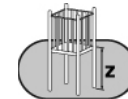
# Installation Instructions



Footing Diagram



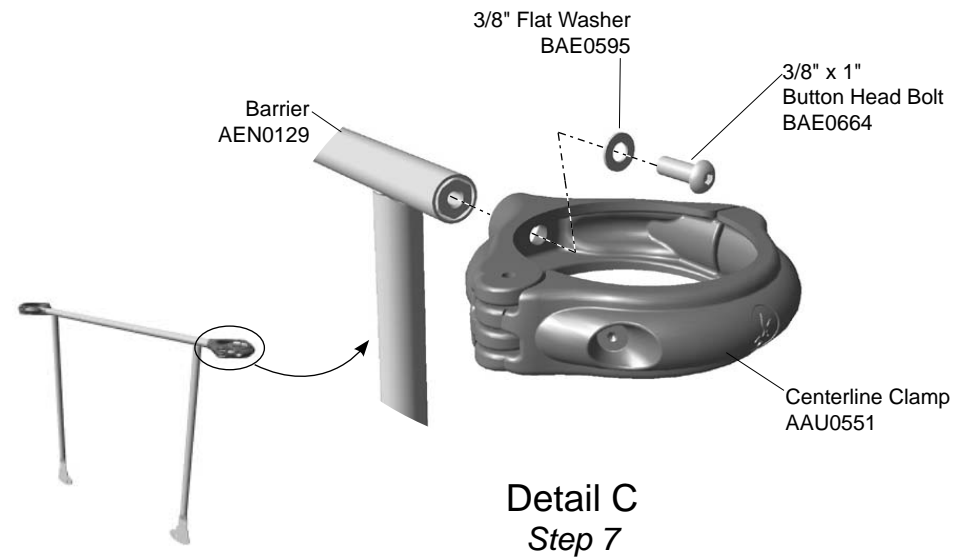
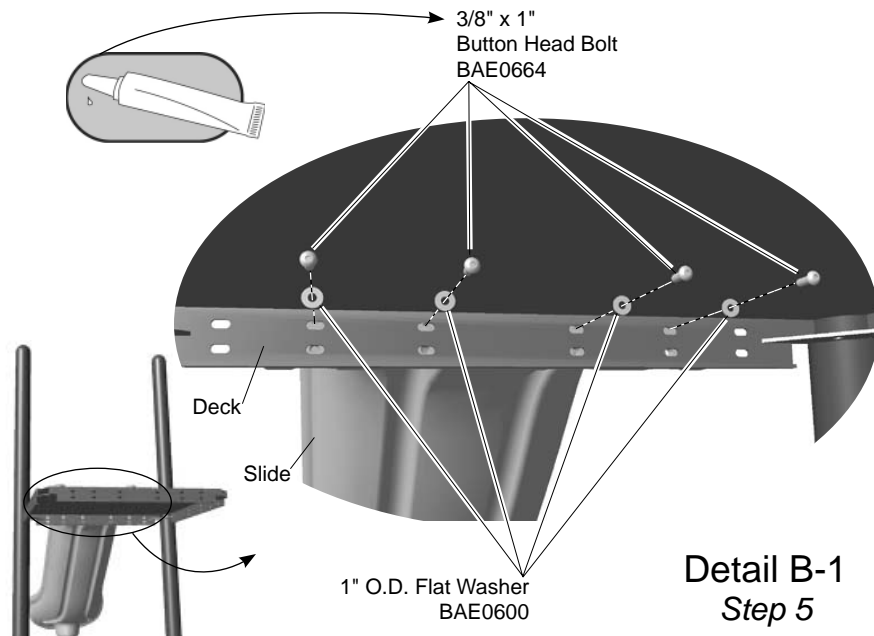
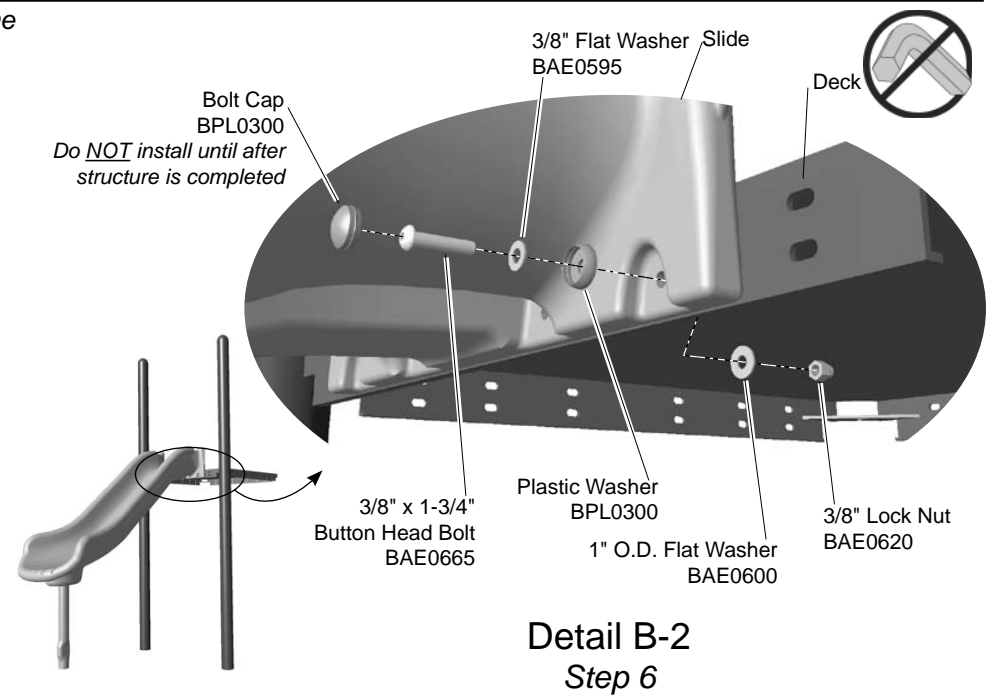
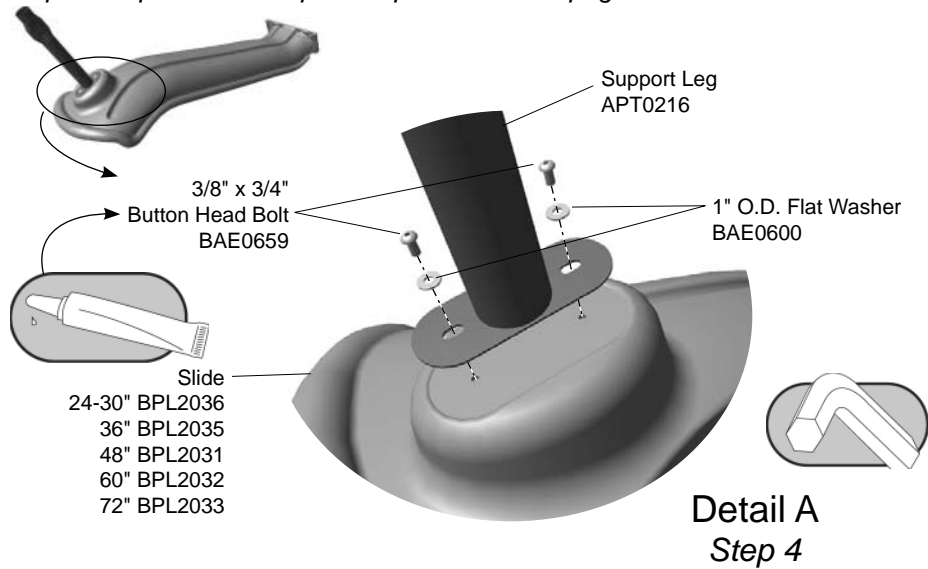
Elevation View PM2696 - 72" Glide Slide



(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

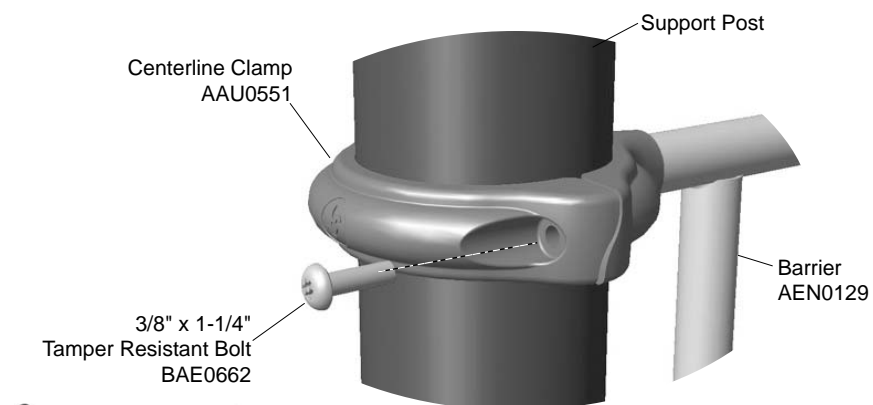
# Installation Instructions

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

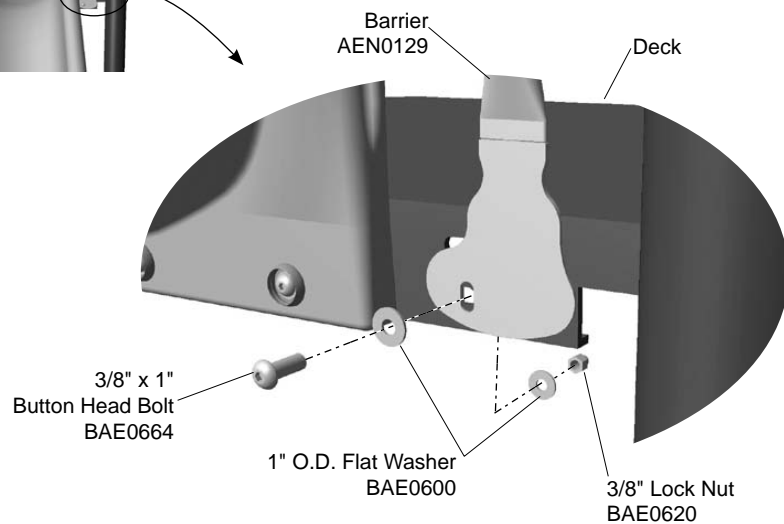
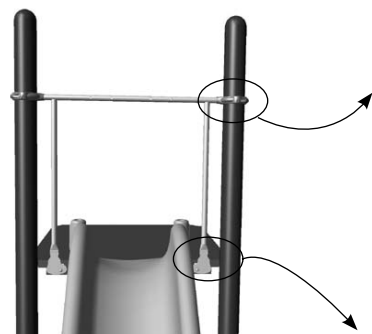




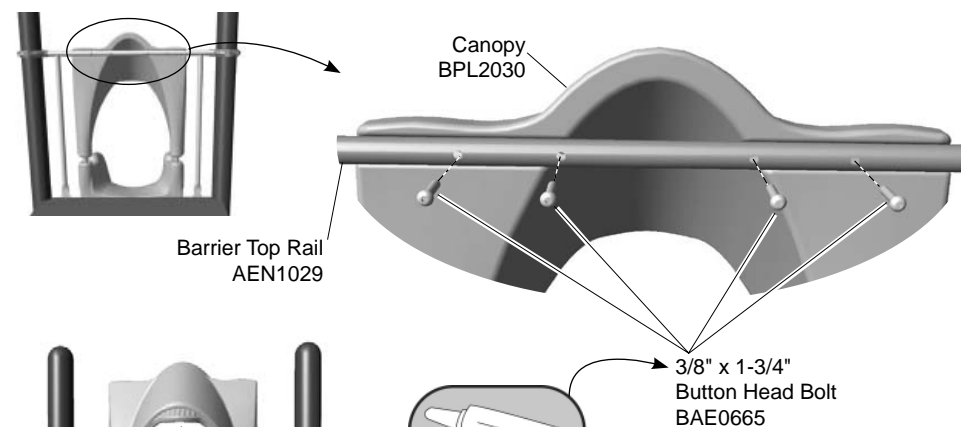
# Installation Instructions



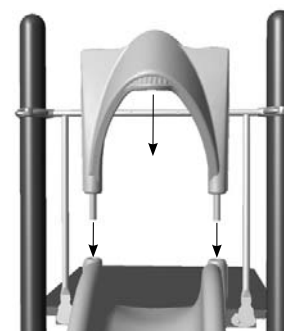
**Detail D-1**  
*Step 8*



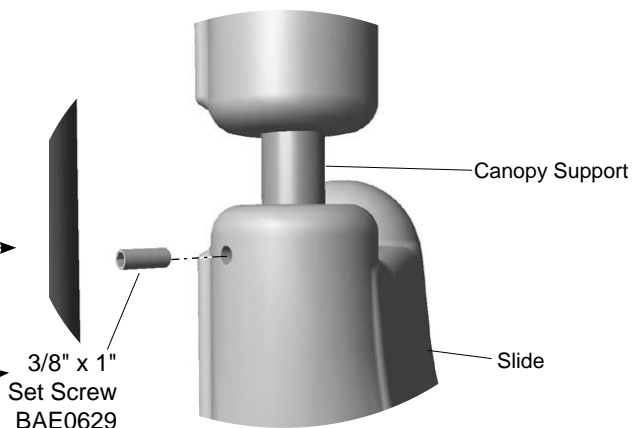
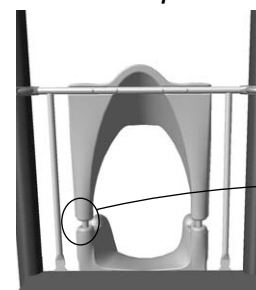
**Detail D-2**  
*Step 9*



**Detail E-2**  
*Step 10*



**Detail E-1**  
*Step 10*

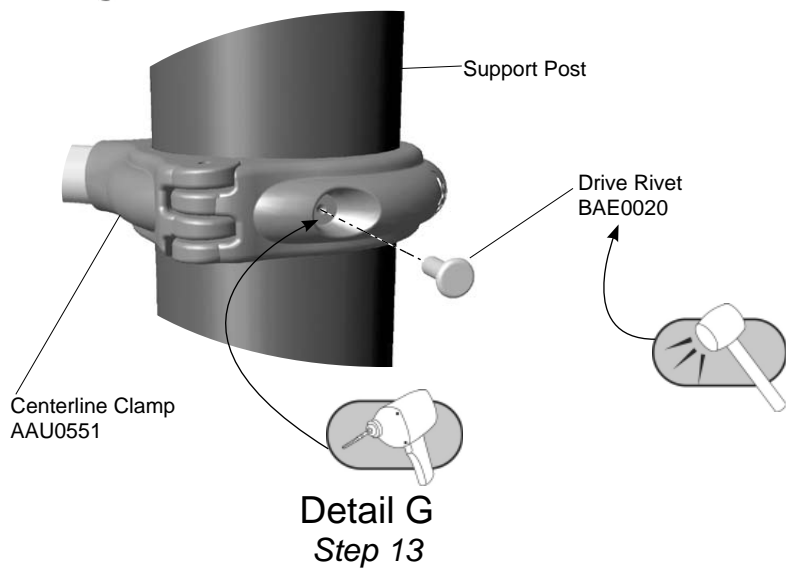
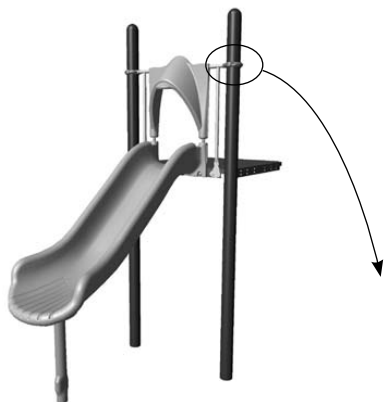


**Detail F**  
*Step 11*

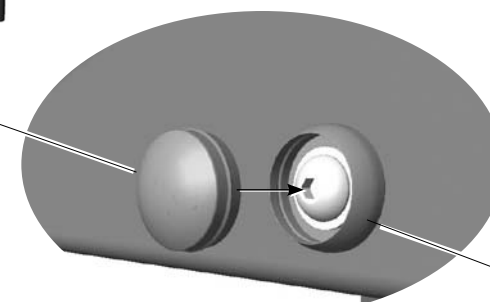
# Installation Instructions



Step 12



Bolt Cap  
BPL0300



Plastic Washer  
BPL0300

Detail H  
Step 14  
(refer to Detail B-2 also)

# 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 bedway 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.

## 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

## 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

## 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

## 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

## 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" TMRP 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

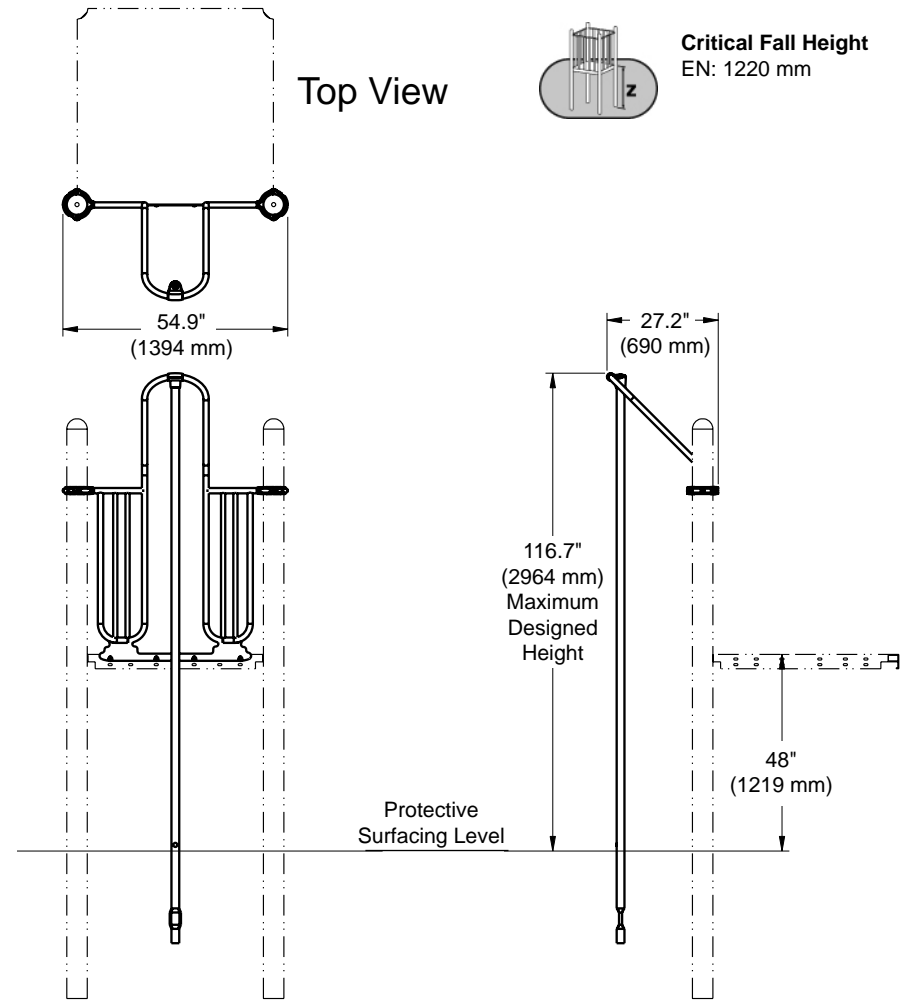
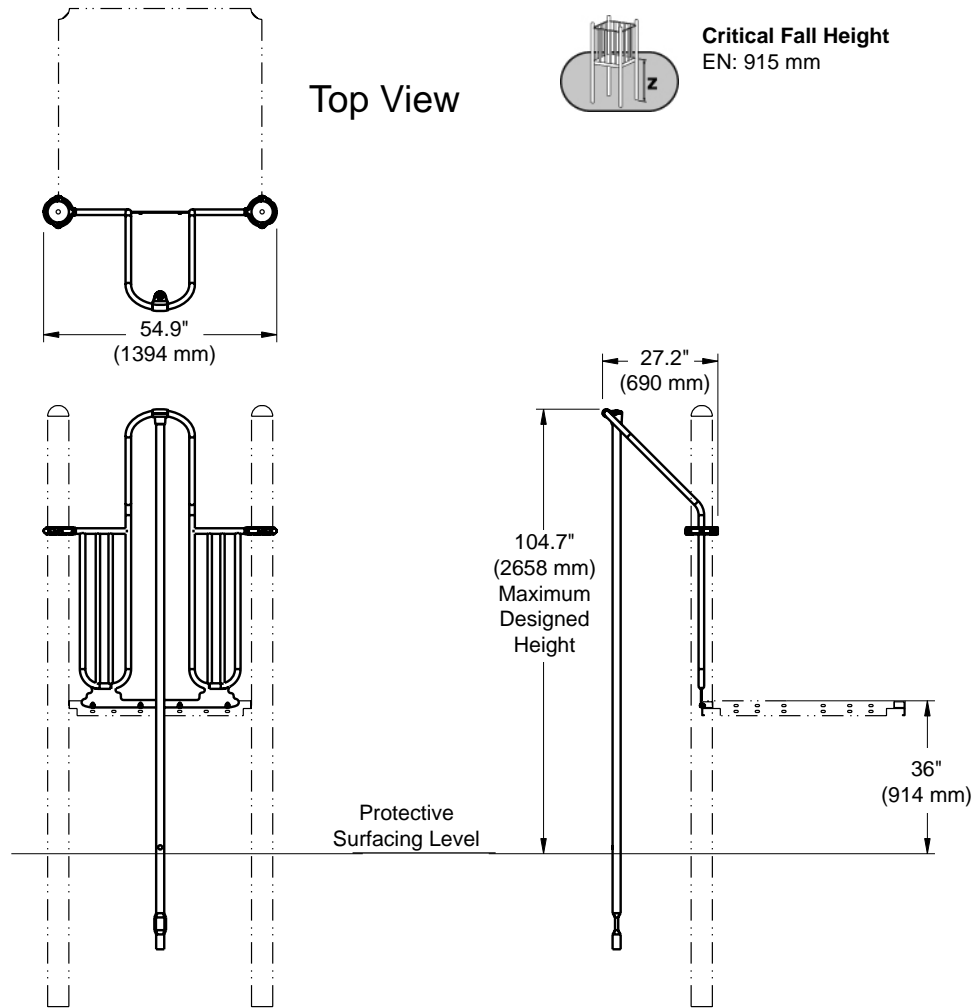
## Installation Preparation

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

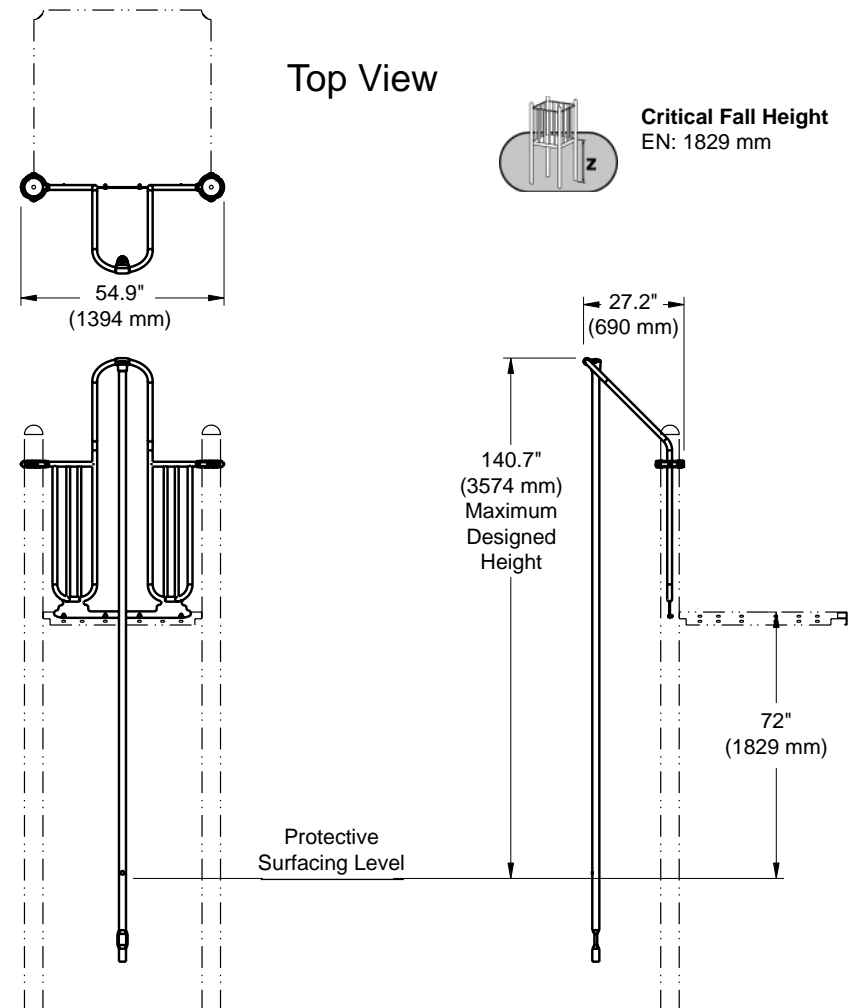
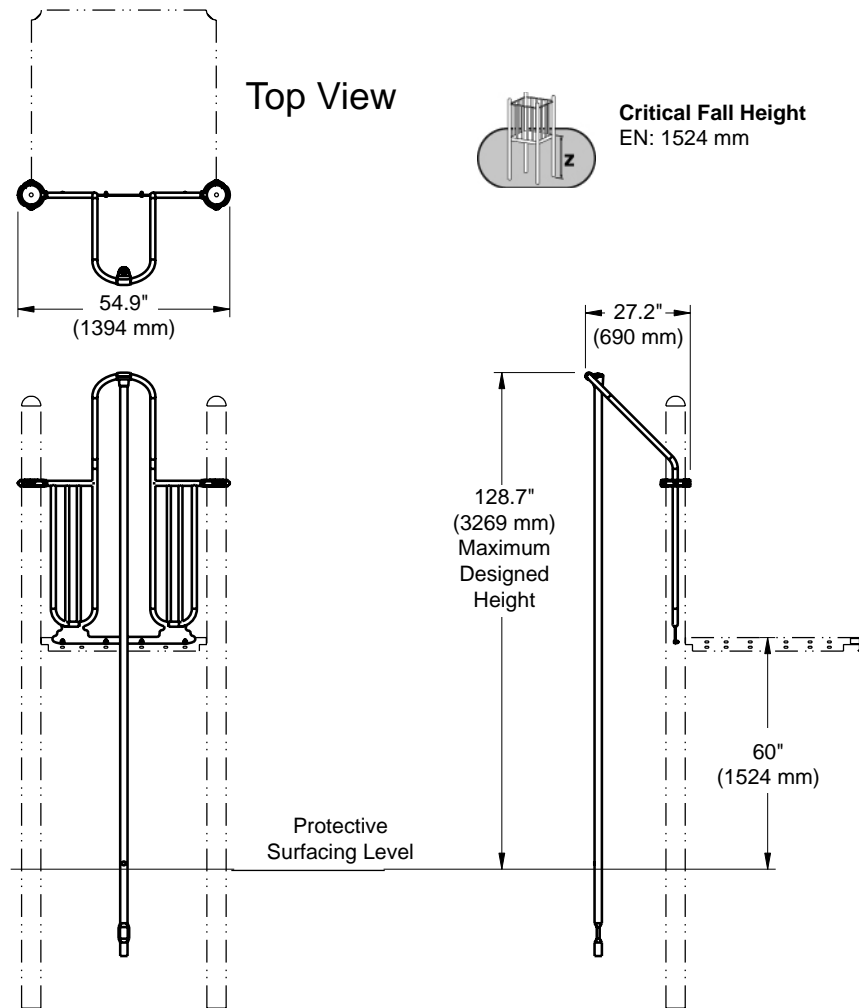
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions



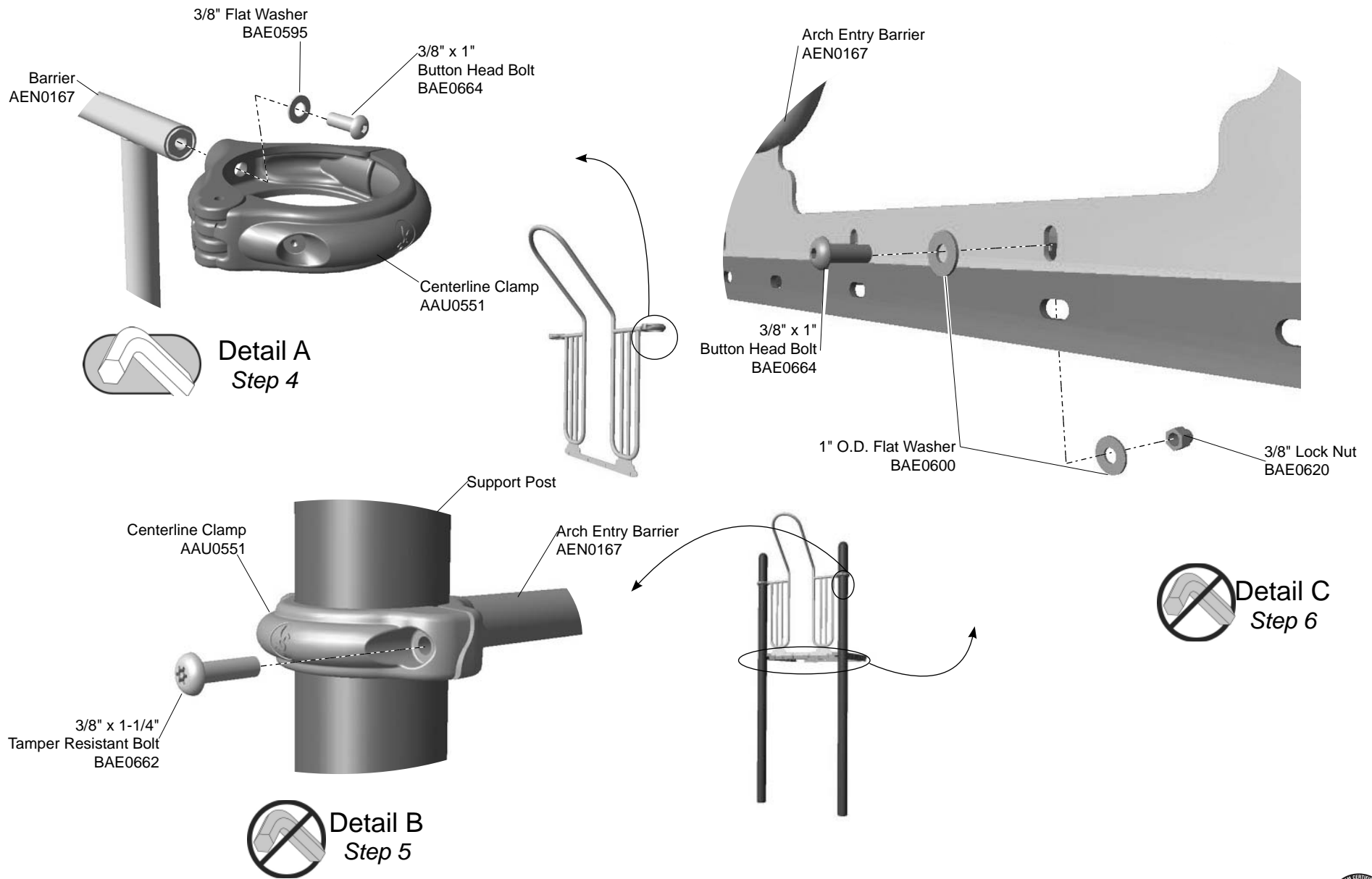


# Installation Instructions

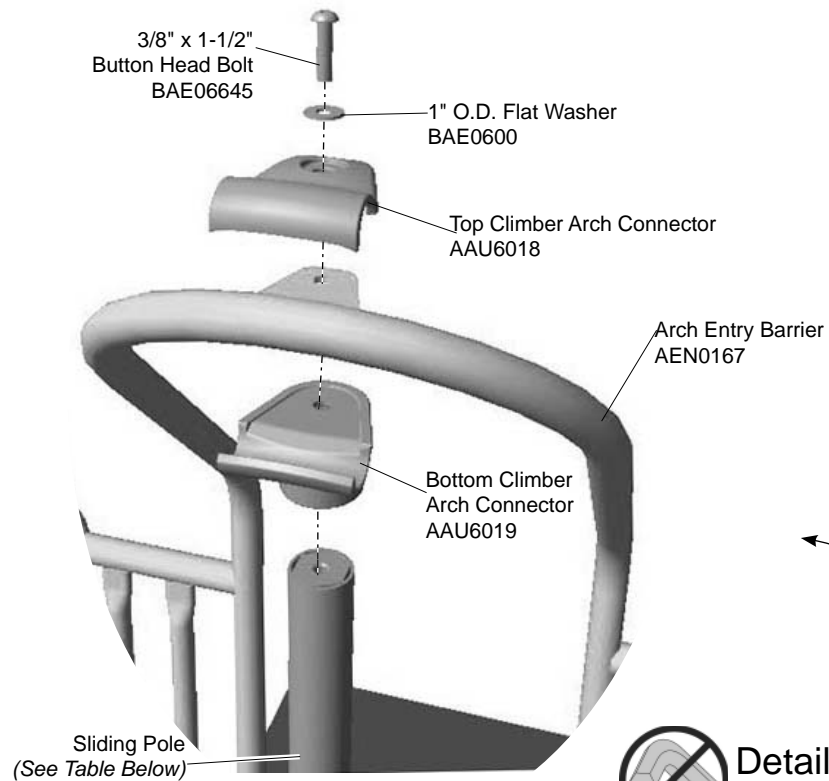


# Installation Instructions

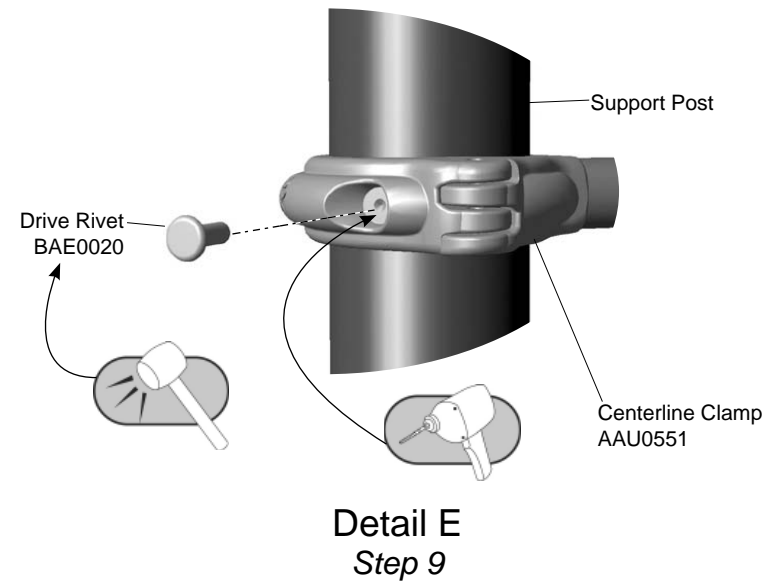
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



# 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 (ZZPM8060)

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 48 in. (1219 mm) DECK (ZZPM8070)

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 60 in. (1524 mm) DECK (ZZPM8080)

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 72 in. (1829 mm) DECK (ZZPM8090)

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



Frog Button  
(example of one  
of ten buttons)

## Installation Instructions

### Playmakers® Model PM4546


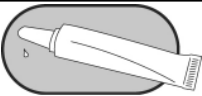

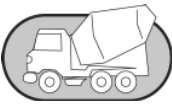
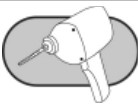


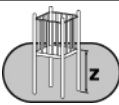
### Scavenger Hunt

### 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

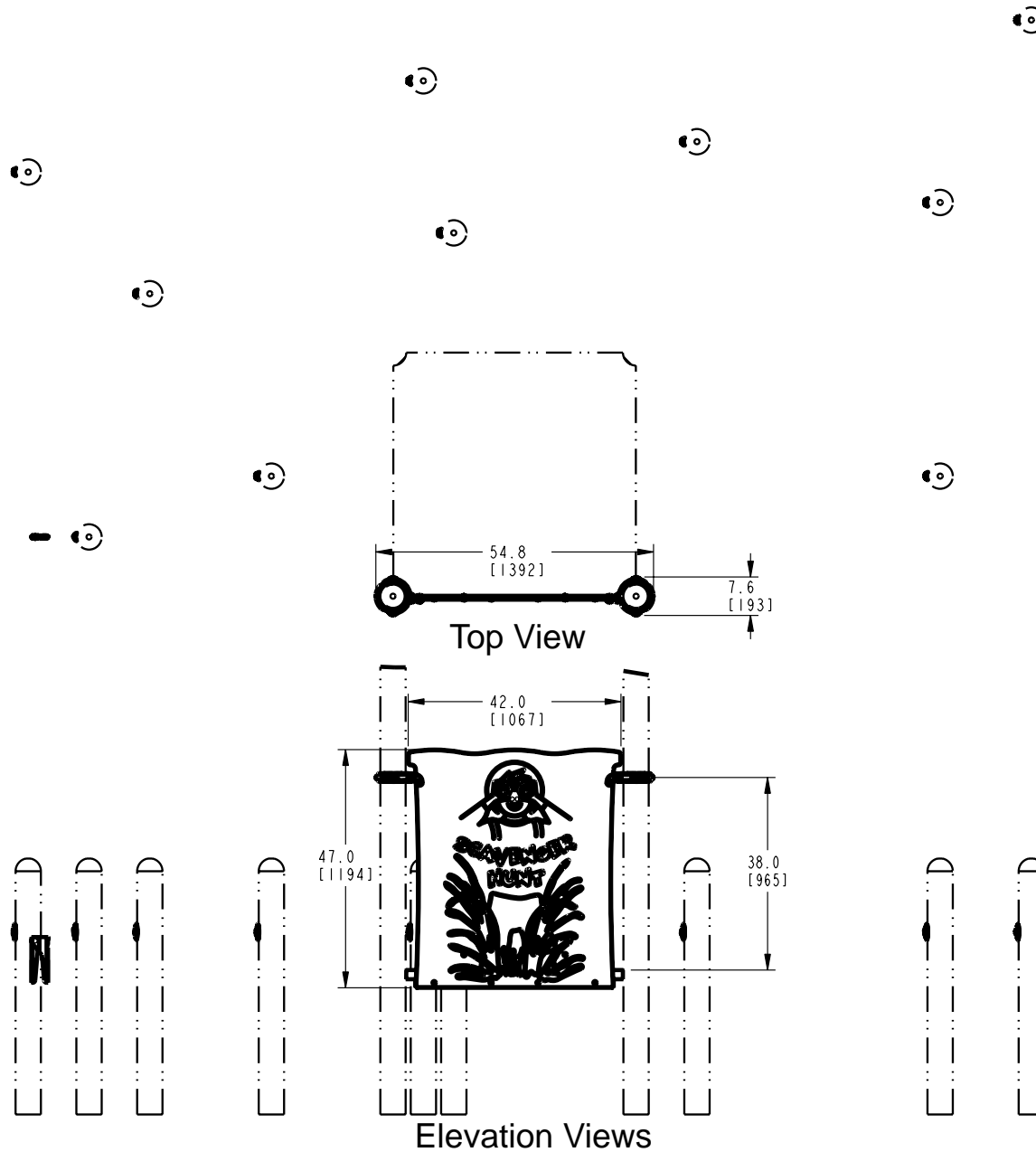
*\*Weights are approximate for determining manpower.*

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



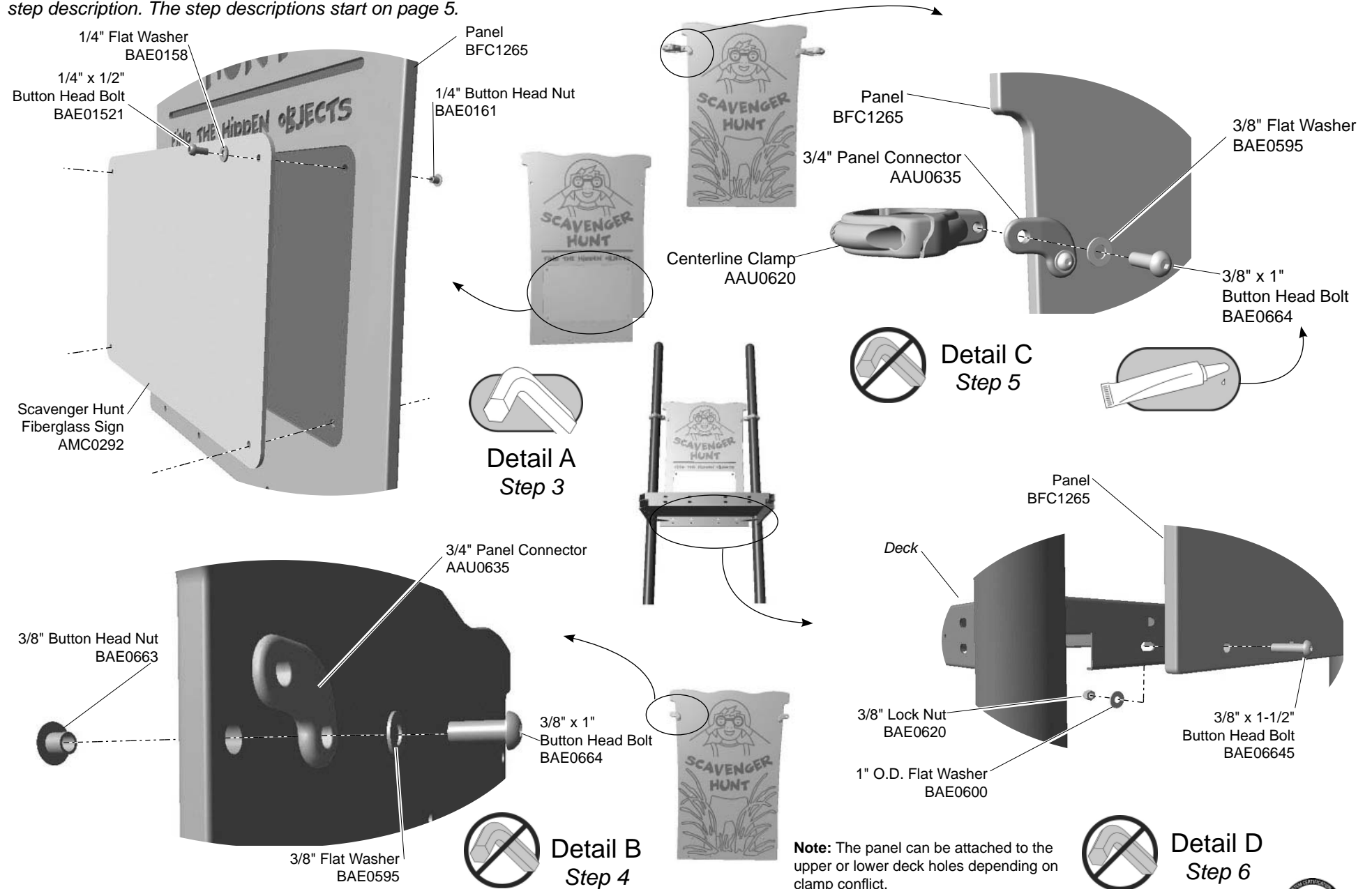
# Installation Instructions

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



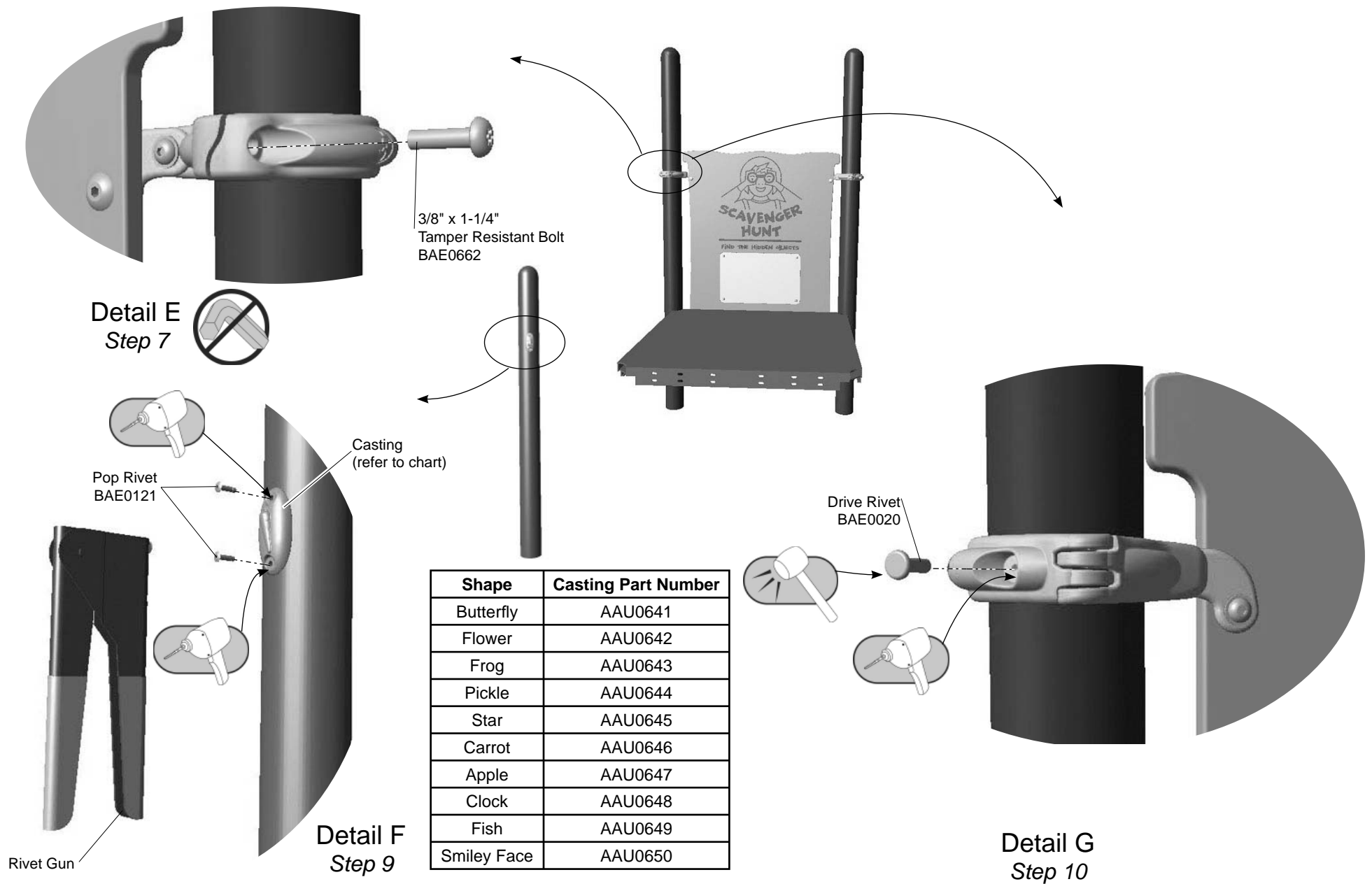
# Installation Instructions

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" TPR 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

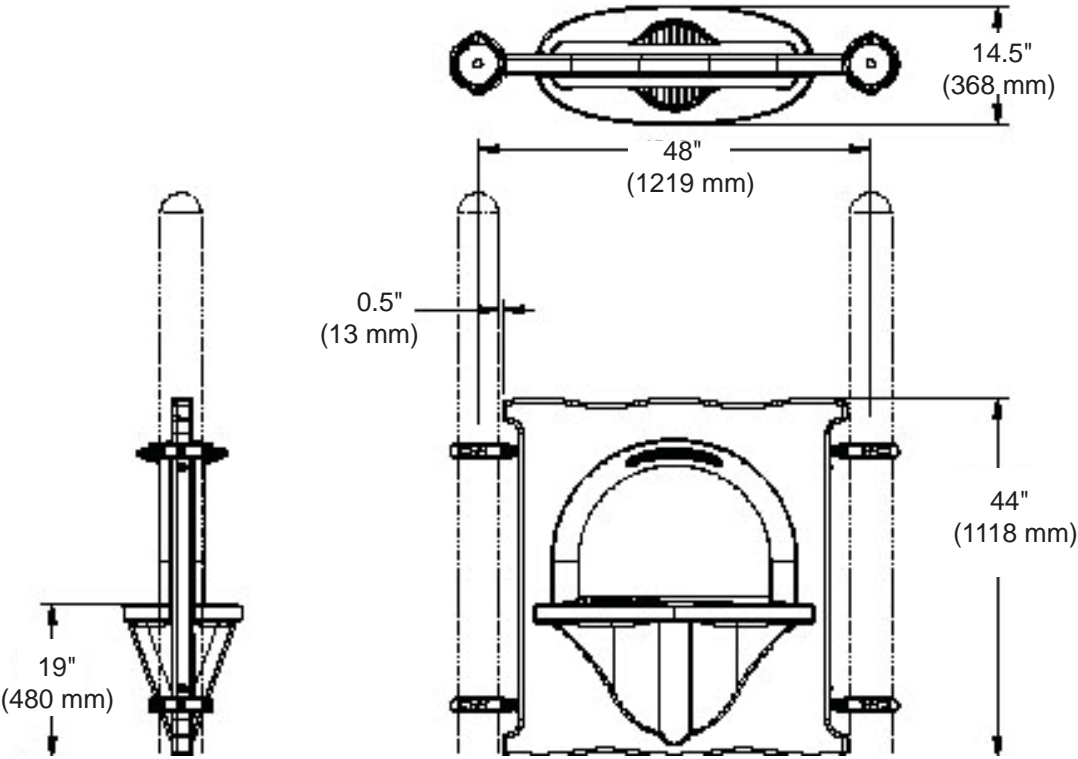
**Installation Preparation**

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

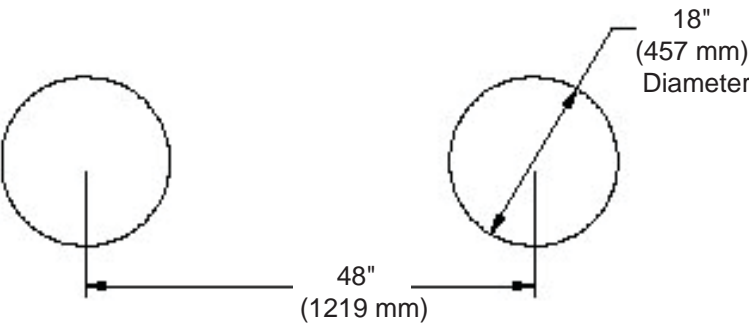
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

# Installation Instructions

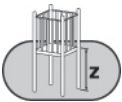
Top View



Footing Diagram



Elevation Views

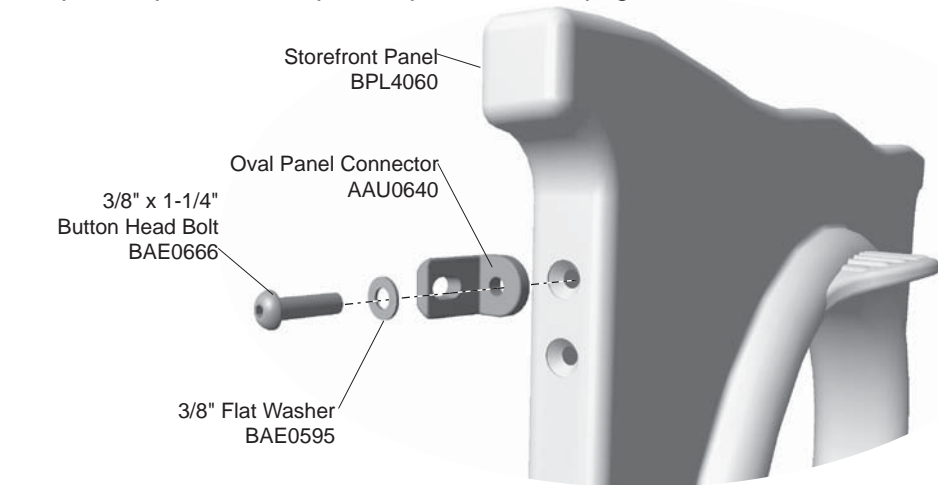


EN: 480 mm

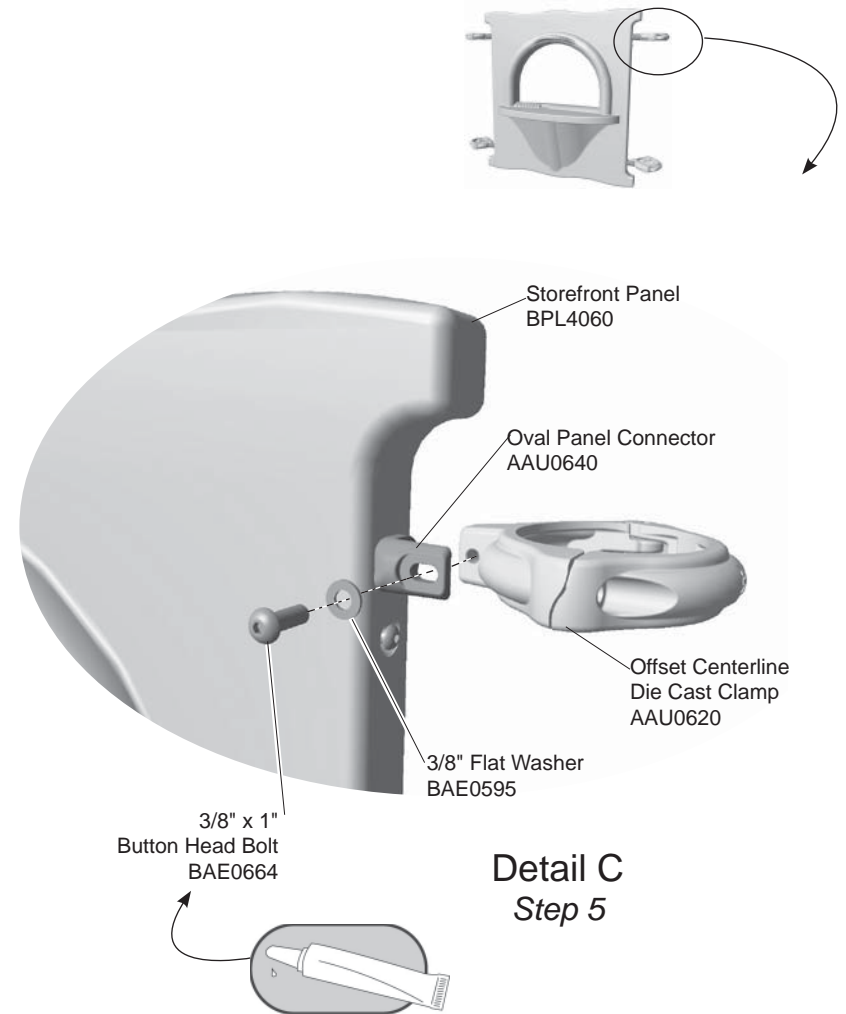
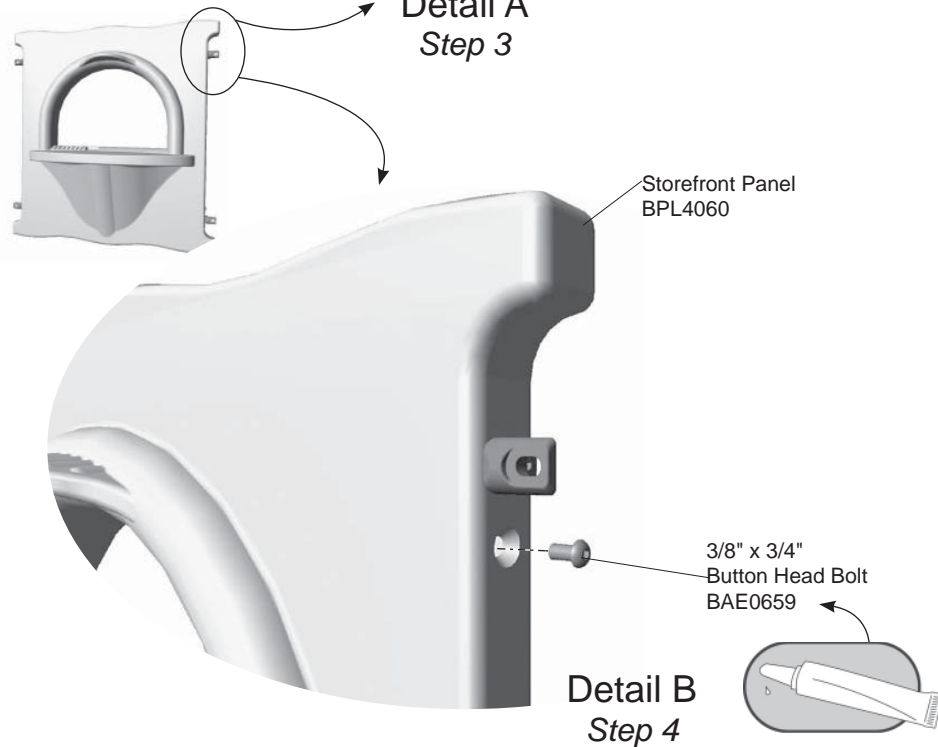


# Installation Instructions

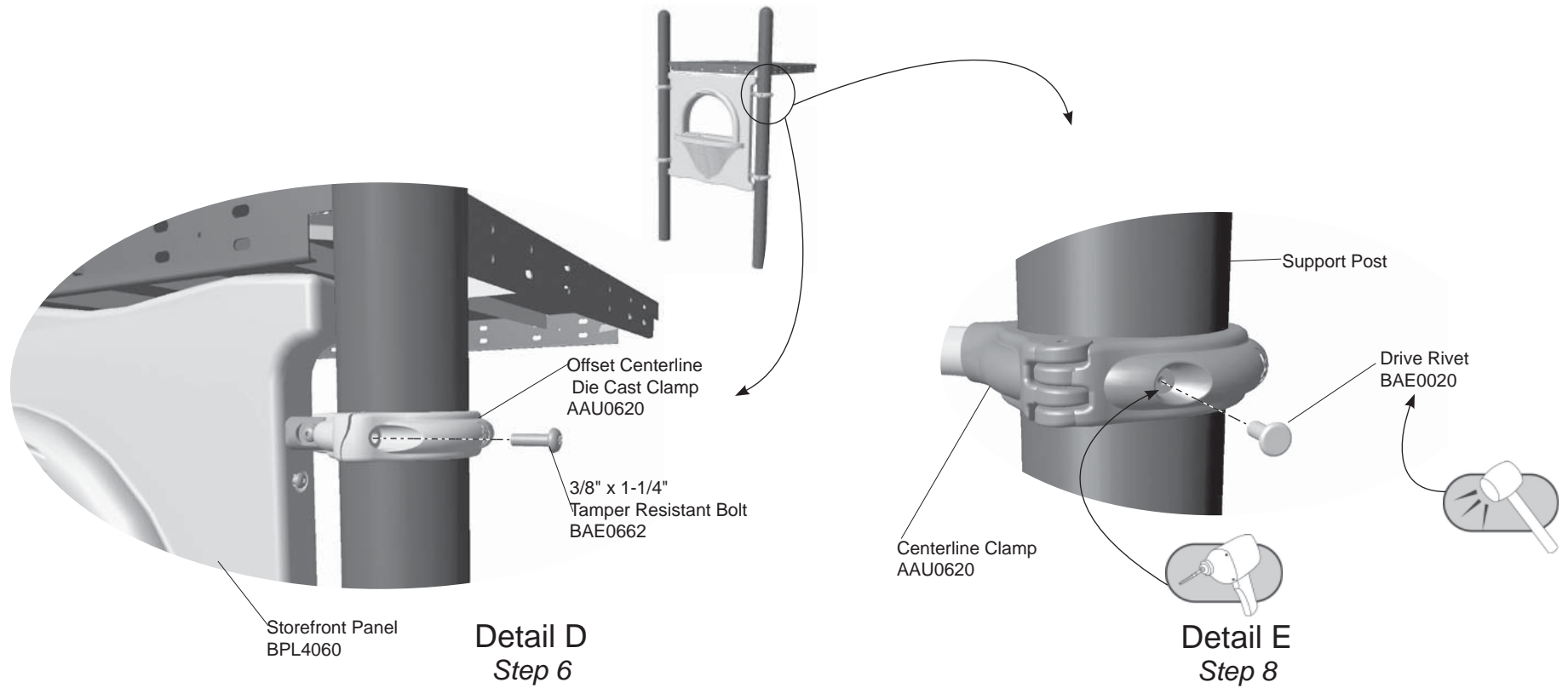
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



**Detail A**  
Step 3



# 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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Assembly View

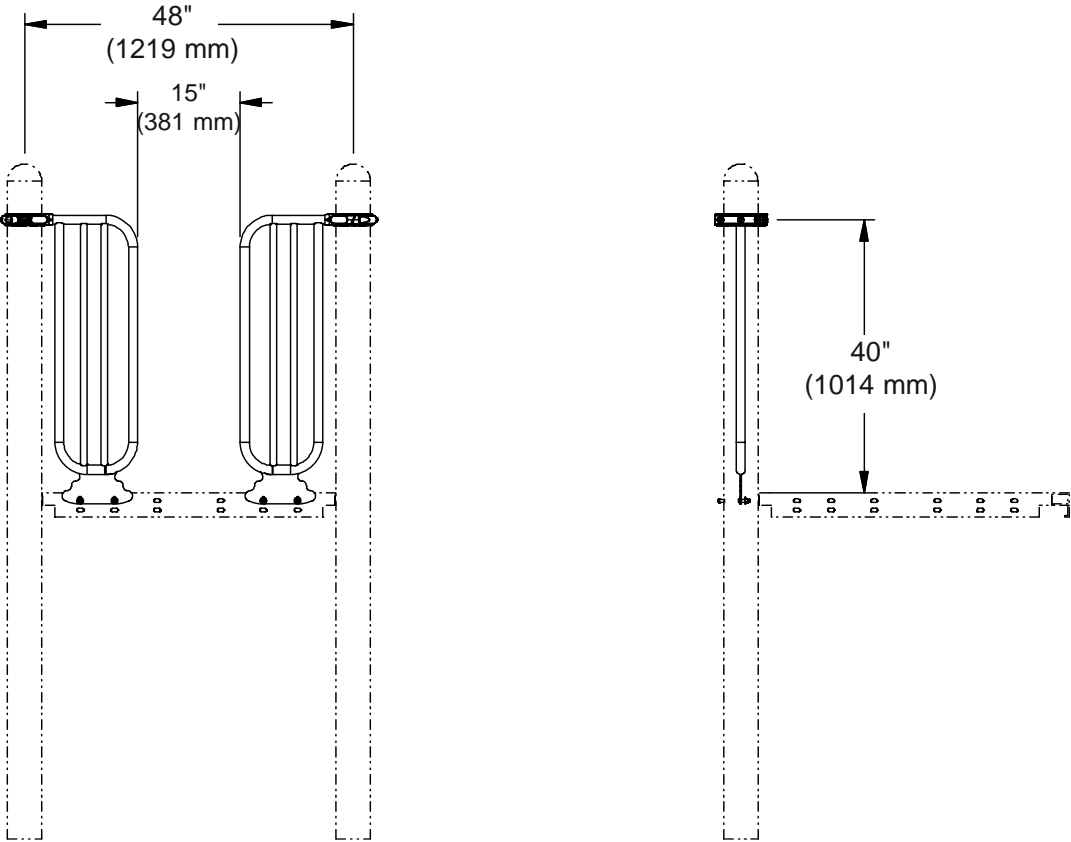
Installation Instructions  
Playmakers® Model PM4288  
Compliance Access Gate

**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
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

# Installation Instructions

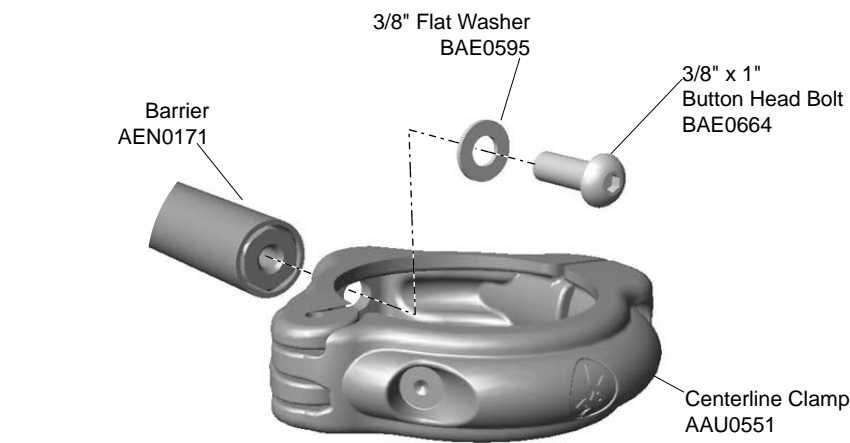


Elevation View

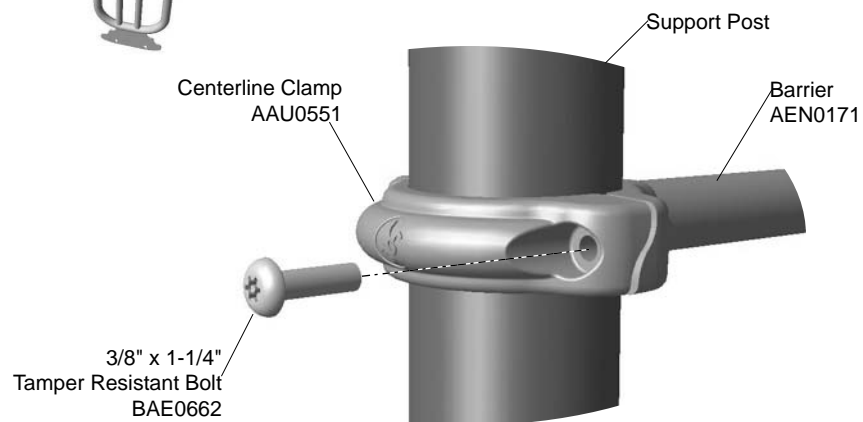


# Installation Instructions

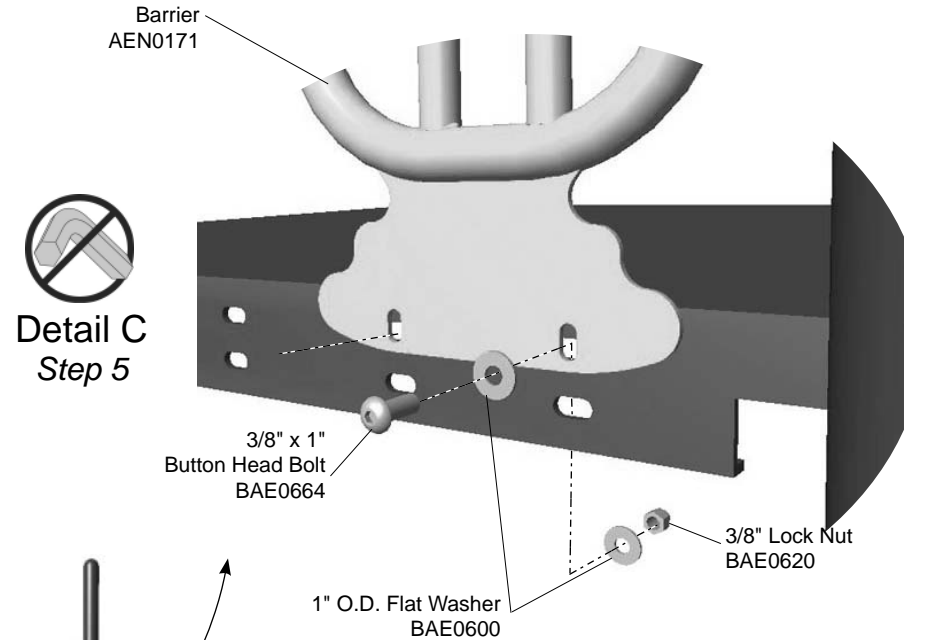
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



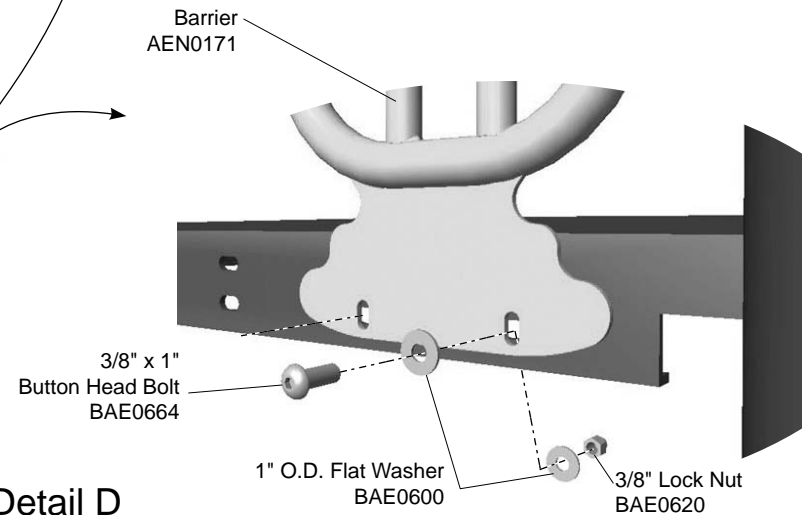
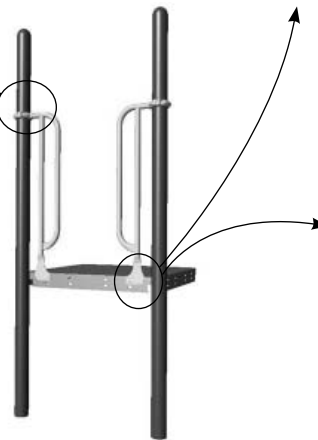
**Detail A**  
Step 3



**Detail B**  
Step 4



**Detail C**  
Step 5



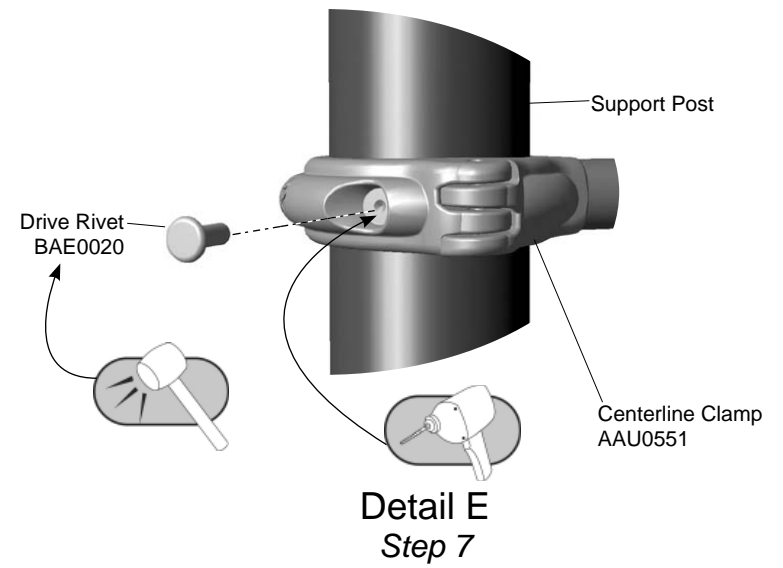
**Detail D**  
Step 5

# Installation Instructions

---



*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.

**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.

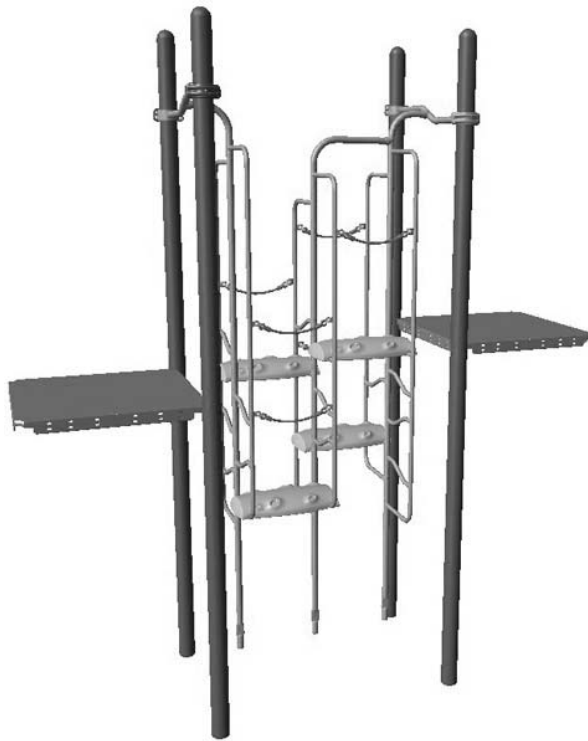


## PM4288 - COMPLIANCE ACCESS GATE

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	Weight
ZZPM6836	314.1 lbs. (142,8 kg)
ZZPM6836S	313.7 lbs. (142,6 kg)

## Installation Instructions

Playmakers® Models PM6836 and PM6836S

6 ft. (1829 mm) Vine Climber

In-Ground and Surface Mount

### Installation Preparation

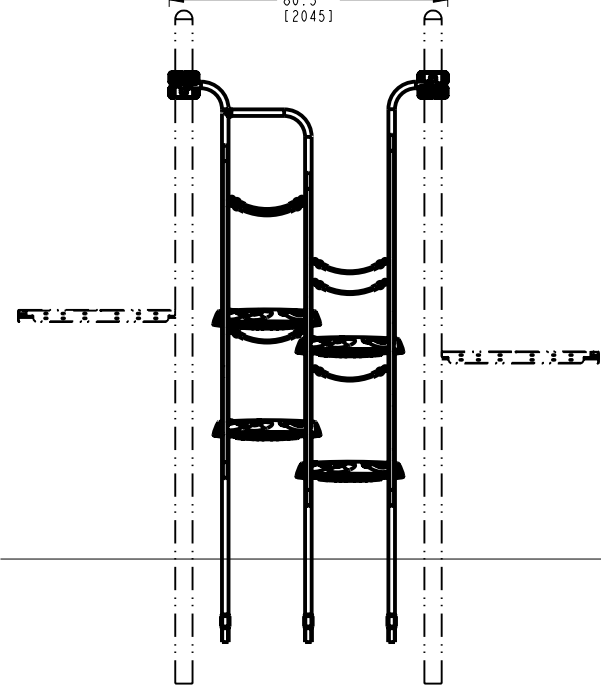
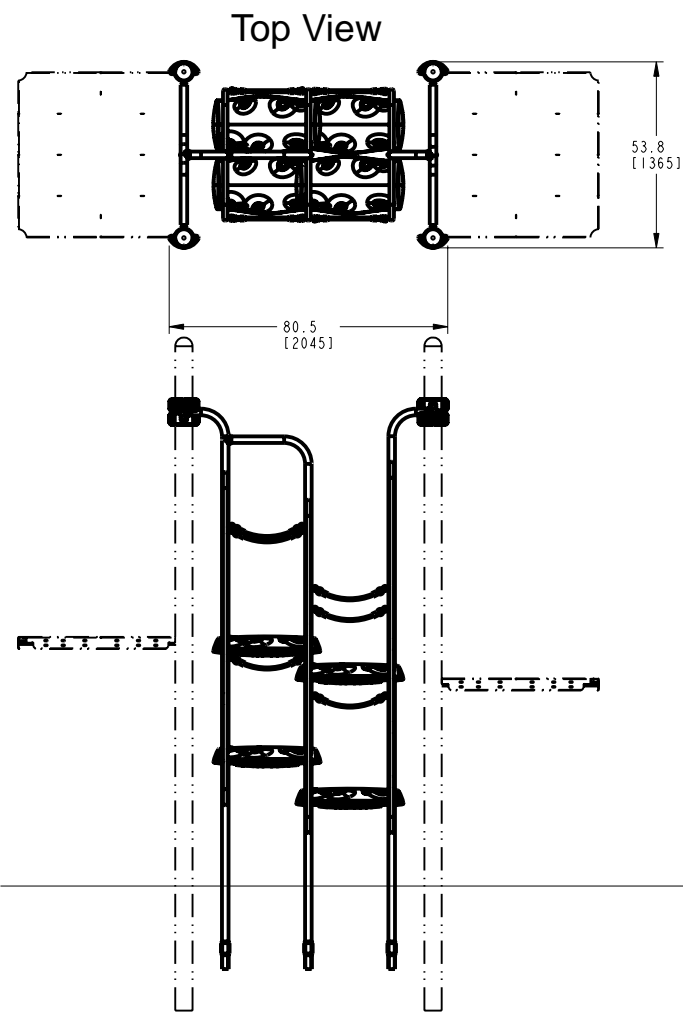
Recommended Crew: ..... Two (2) adults  
 Installation Time (in-ground): ..... 3 man-hours  
 Installation Time (surface mount): ..... 1.5 man-hours  
 Weight: ..... (refer to table)  
 Concrete Required (in-ground only): ..... 0.09 cubic yard (0,07 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

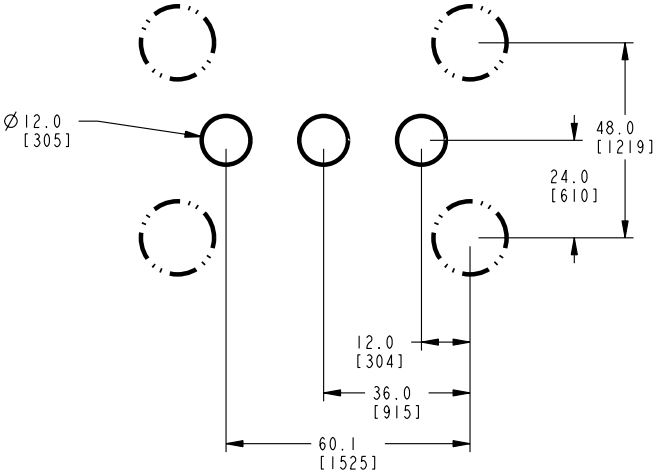
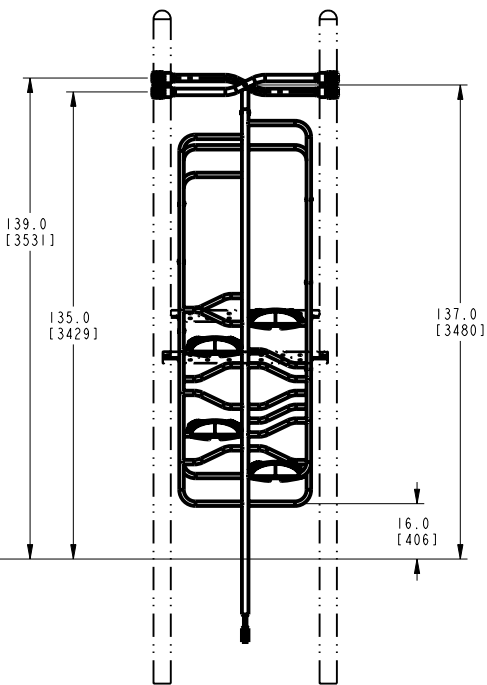
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

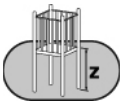
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views  
PM6836



Footing Diagram  
Both Models



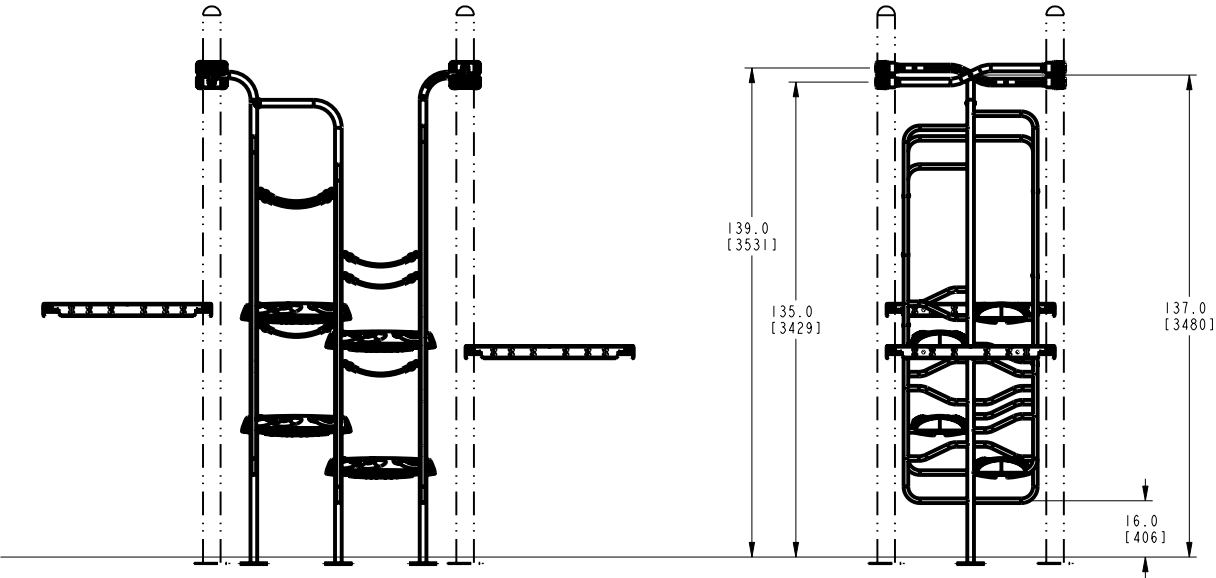
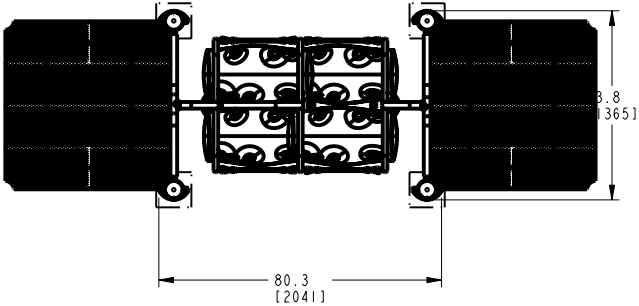
EN: 3300 mm



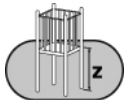
# Installation Instructions

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

Top View



Elevation Views  
PM6836S

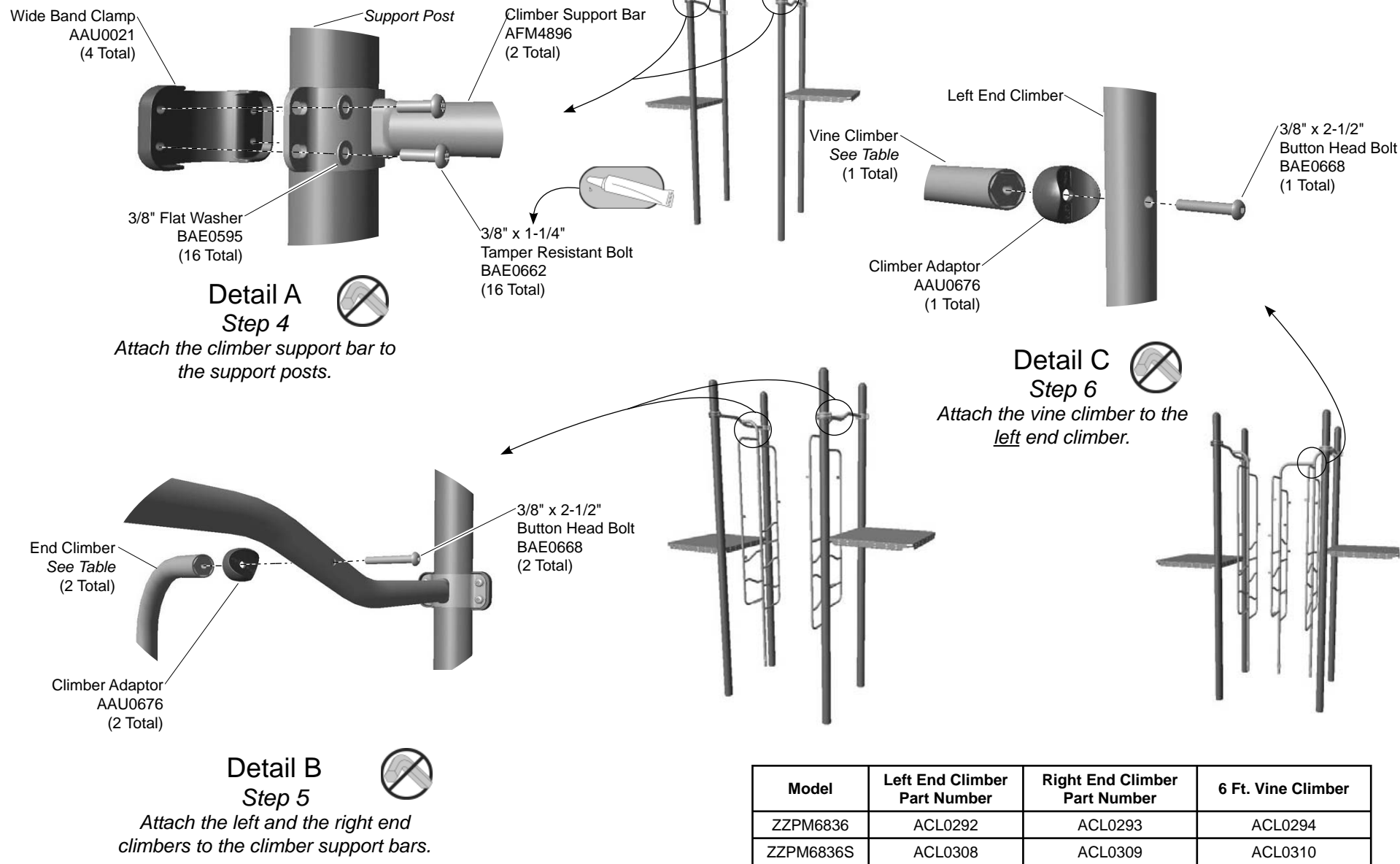


EN: 3300 mm

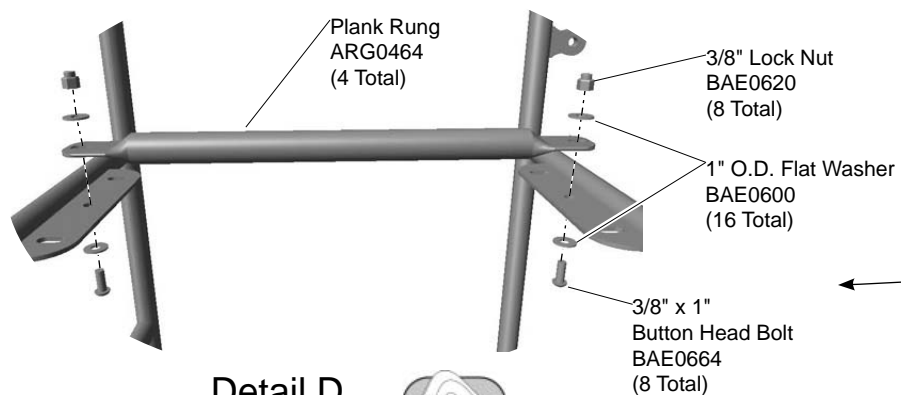


# Installation Instructions

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



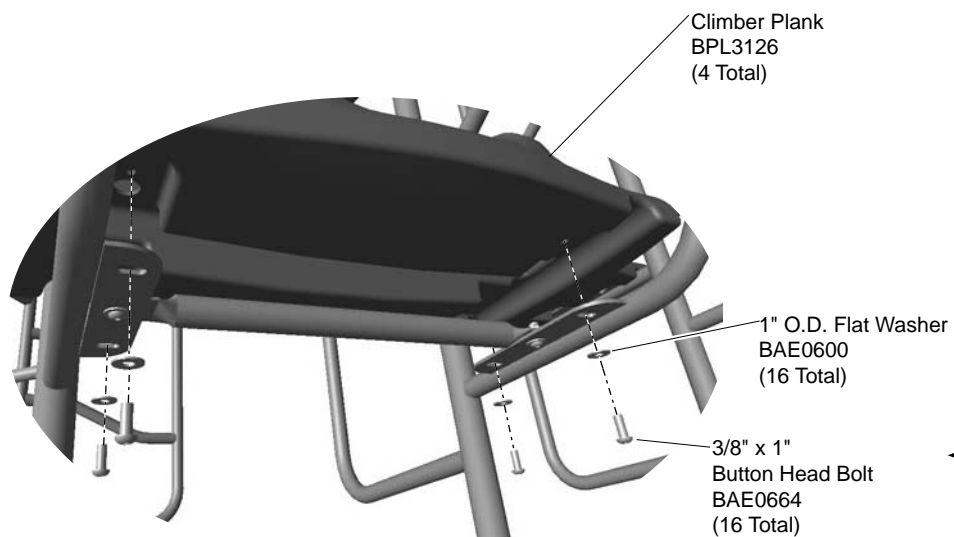
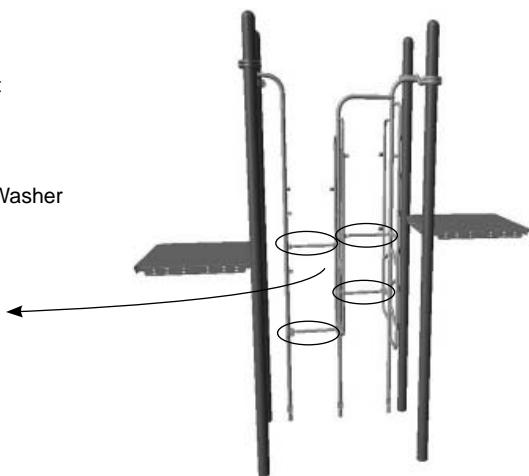
# Installation Instructions



## Detail D

### Step 7

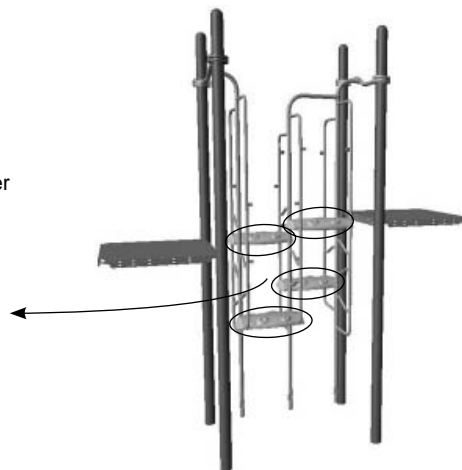
*Attach the plank rungs to the climbers.*



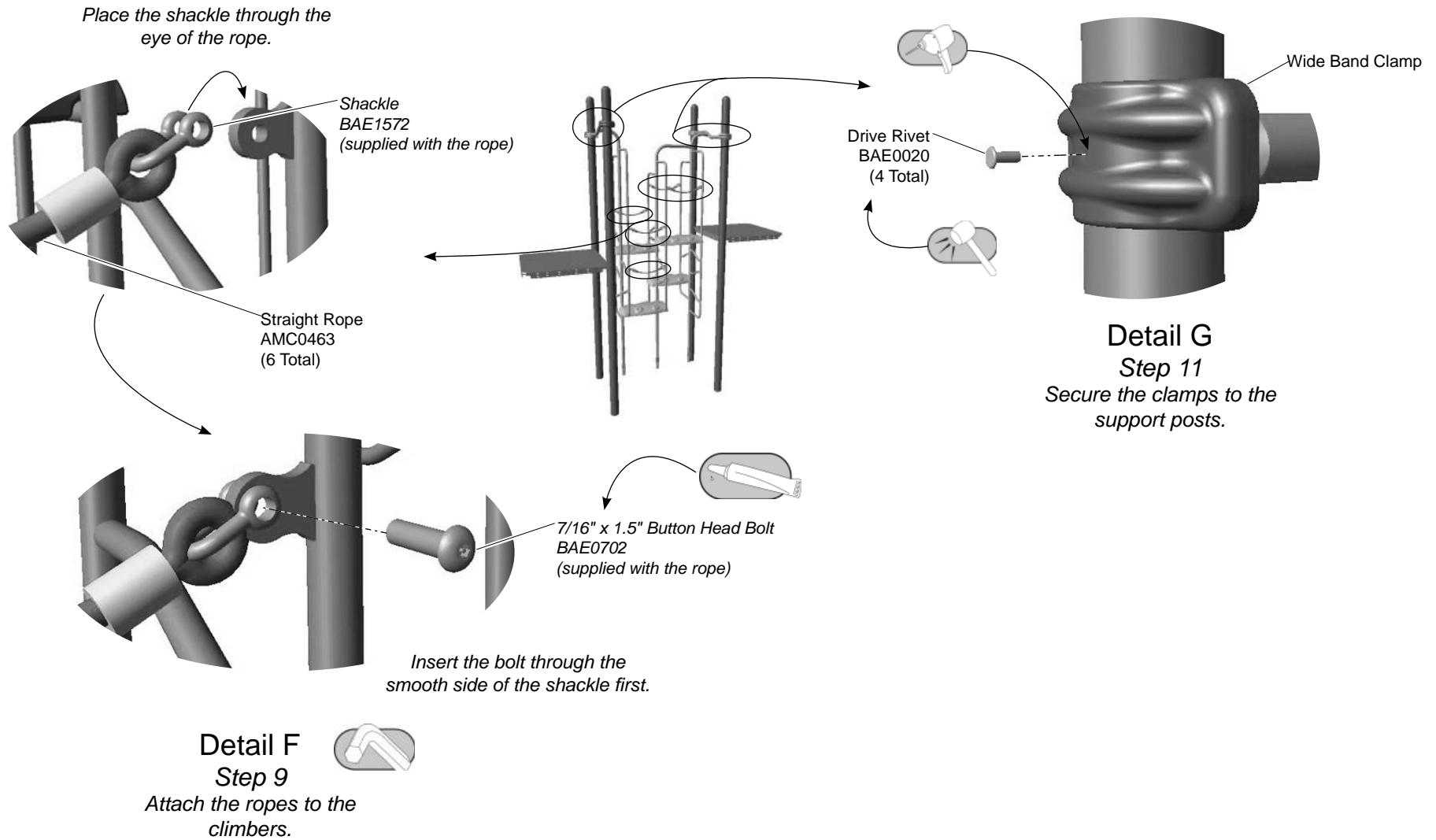
## Detail E

### Step 8

*Attach the planks to the plank rungs.*



# 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** or **Surface Mount Footing Details** in the *Challenger Guidelines*.

**Step 4:** Attach the climber support bars to the support posts. See **Detail A**. Position the climber support bars between the support posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

**Step 5:** Attach the left and the right end climbers to the climber support bars. See **Detail B**. Position a climber adaptor against the top of each end climber and then against the climber support bar, and attach as shown. Coped end of the adaptor must be flush against the support bar.

**Step 6:** Attach the 6 ft. vine climber to the **left** end climber. See **Detail C**. Position the climber adaptor against the top of the vine climber and then against the end climber, and attach as shown. Coped end of the adaptor must be flush against the end climber.

**Step 7:** Attach the plank rungs to the mounting brackets on the climbers. See **Detail D**. Position the rungs between the climbers and on top of the brackets. Attach as shown. Fully tighten the connections.

**Step 8:** Attach the planks to the plank rungs. See **Detail E**. Position each plank onto a rung and attach as shown. Fully tighten the connections.

**Step 9:** Attach the ropes to the climbers. See **Detail F**. Position each rope between the mounting tabs on two climbers, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

## 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.

## PM6836 - 6 ft. (1829 mm) VINE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AAU0676	CASTING - GEO CLIMBER ADAPTER	3
ACL0292	CLIMBER - 72" DECK TO DECK VINE END LEFT	1
ACL0293	CLIMBER - 72" VINE DECK TO DECK END RIGHT	1
ACL0294	CLIMBER - 72" VINE DECK TO DECK CENTER	1
AFM4896	FAB METAL - 7.01" x 6.31" x 35.74"	2
AMC0463	21.50" STRAIGHT ROPE w/2 SHACKLES	6
ARG0464	RUNG - 1.315" x 21.88" w/FLAT ENDS	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPL3126	PLANK - VINE CLIMBER	4

## PM6836S - 6 ft. (1829 mm) VINE CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AAU0676	CASTING - GEO CLIMBER ADAPTER	3
ACL0308	CLIMBER - 72" DECK TO DECK VINE END LEFT	1
ACL0309	CLIMBER - 72" VINE DECK TO DECK END RIGHT	1
ACL0310	CLIMBER - 72" VINE DECK TO DECK CENTER	1
AFM4896	FAB METAL - 7.01" x 6.31" x 35.74"	2
AMC0463	21.50" STRAIGHT ROPE w/2 SHACKLES	6
ARG0464	RUNG - 1.315" x 21.88" w/FLAT ENDS	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPL3126	PLANK - VINE CLIMBER	4



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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

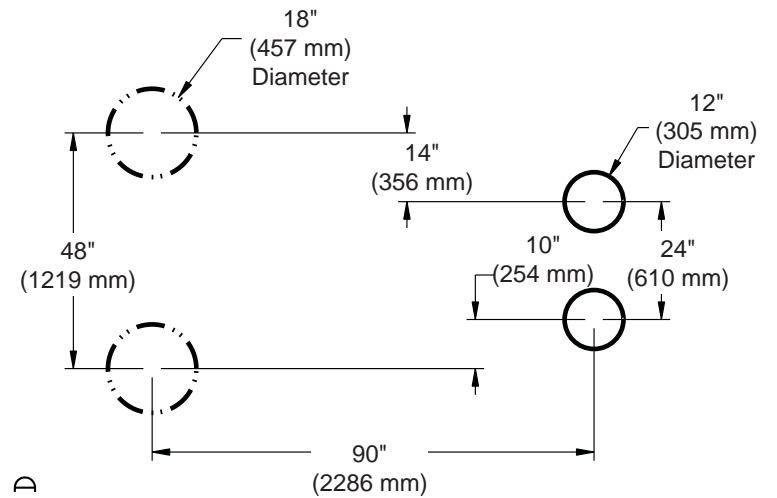
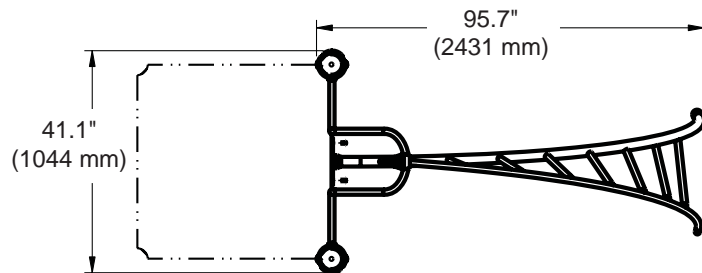
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 2 installation-hours  
 Weight: ..... (refer to table)  
 Concrete Required: ..... 0.6 cubic yard (0,4 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

### ICON KEY

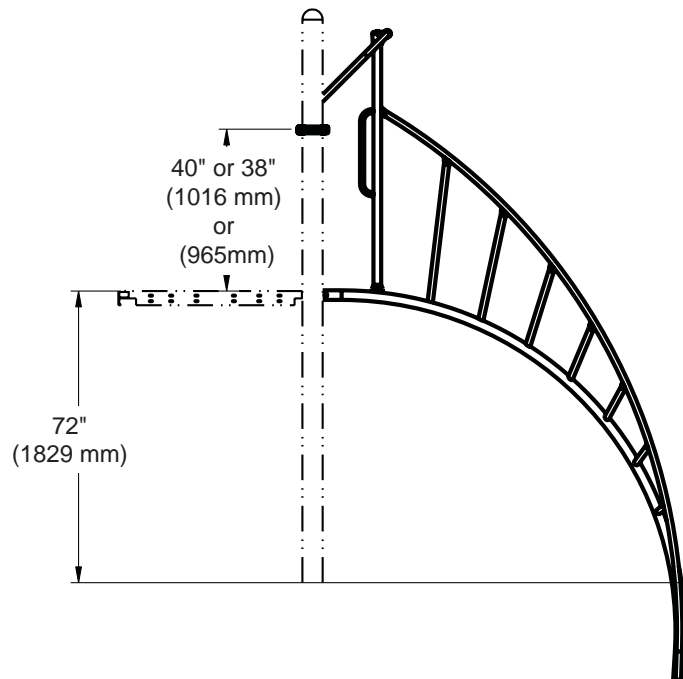
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

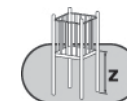
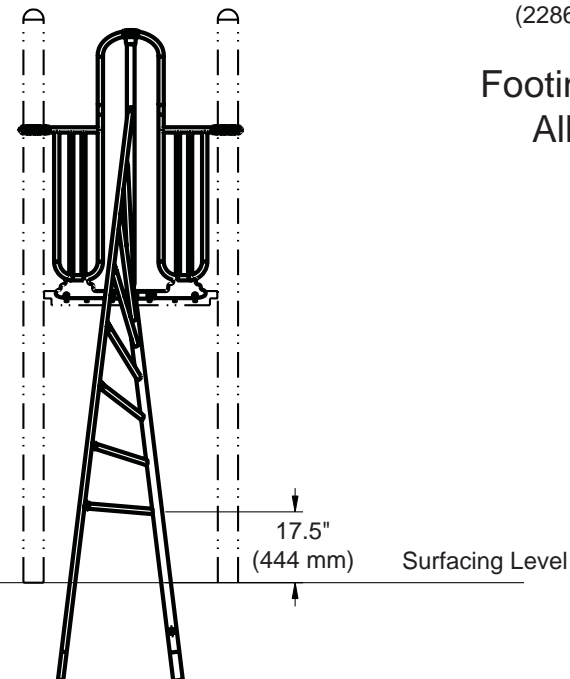
Top View



Footing Diagram  
All Models



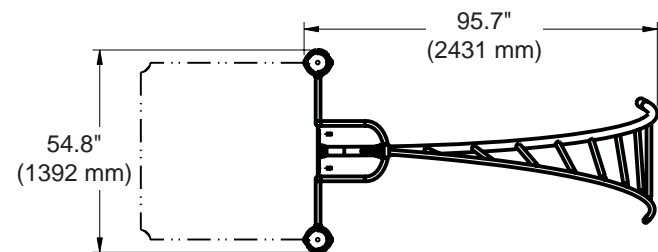
Elevation Views  
ZZPM7160



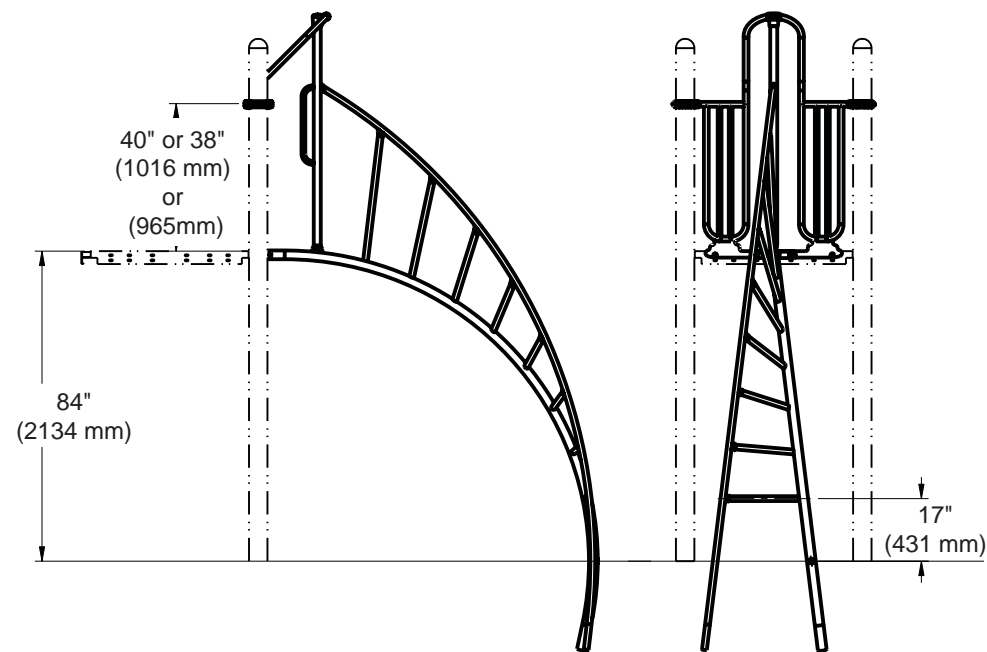
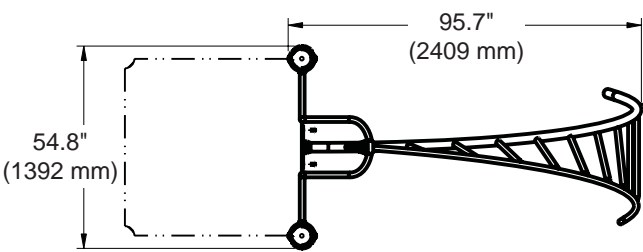
EN: 1829 mm

# Installation Instructions

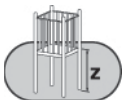
Top View



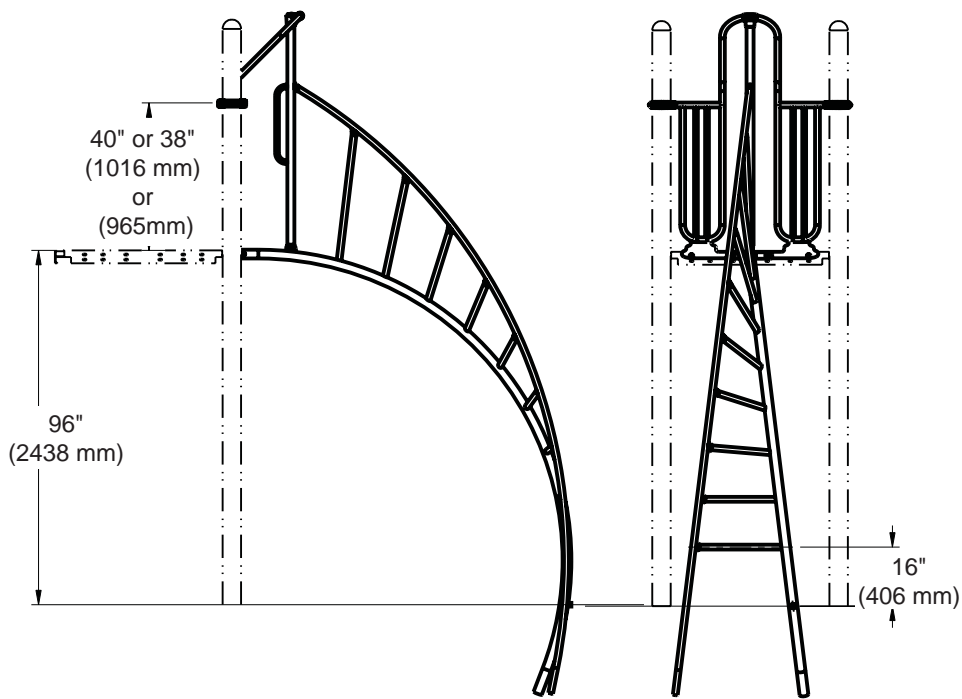
Top View



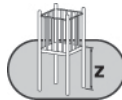
Elevation Views  
ZZPM7166



EN: 2134 mm



Elevation Views  
ZZPM7167

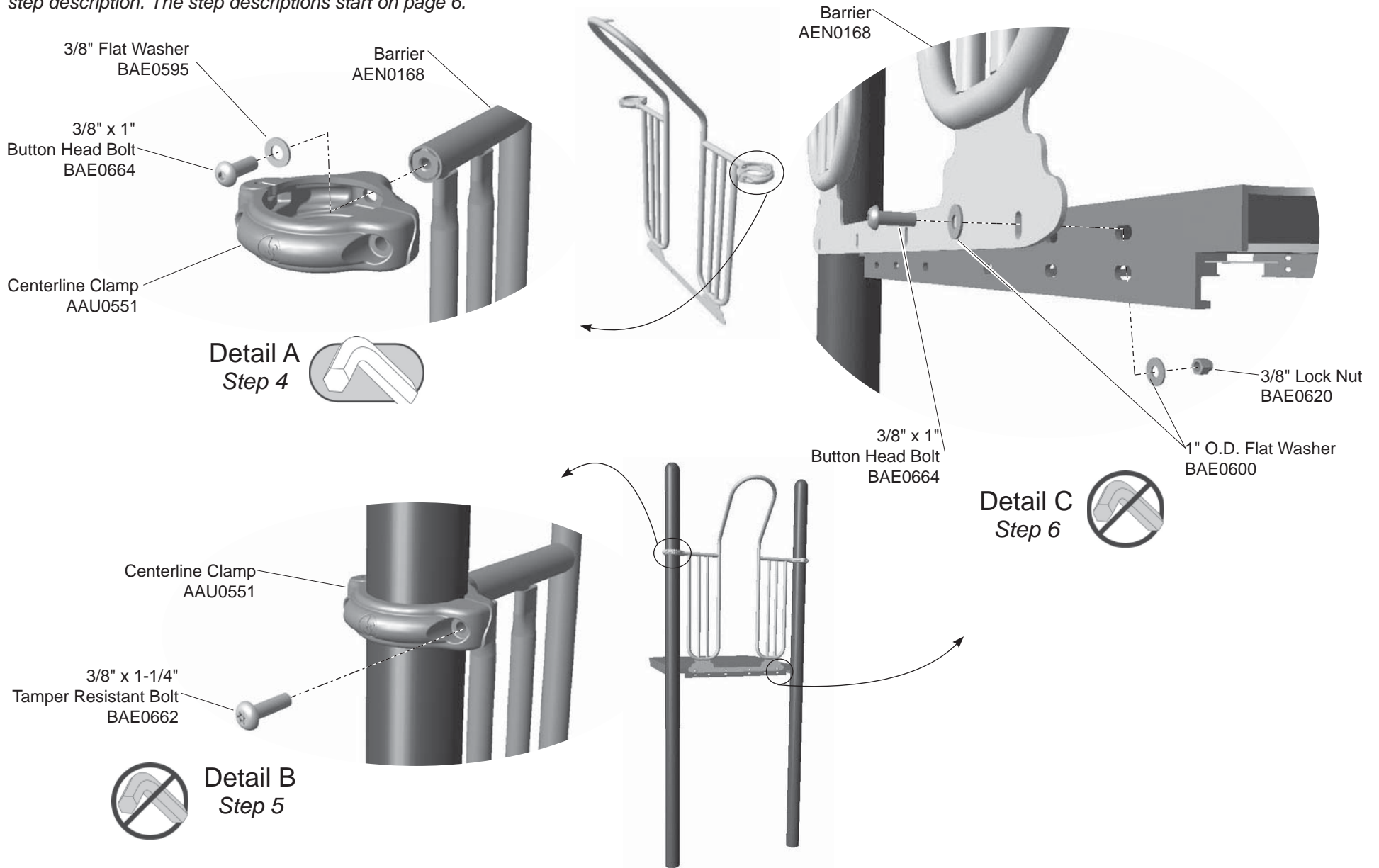


EN: 2438 mm



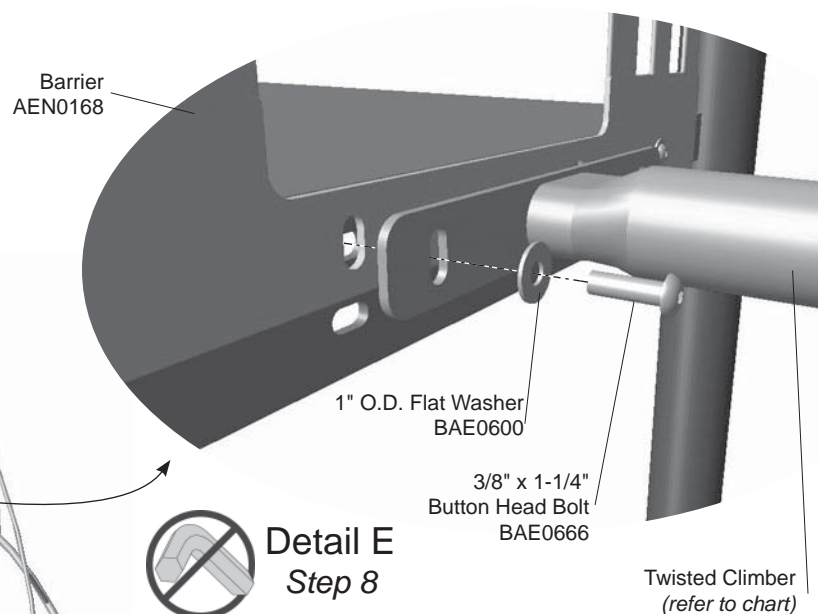
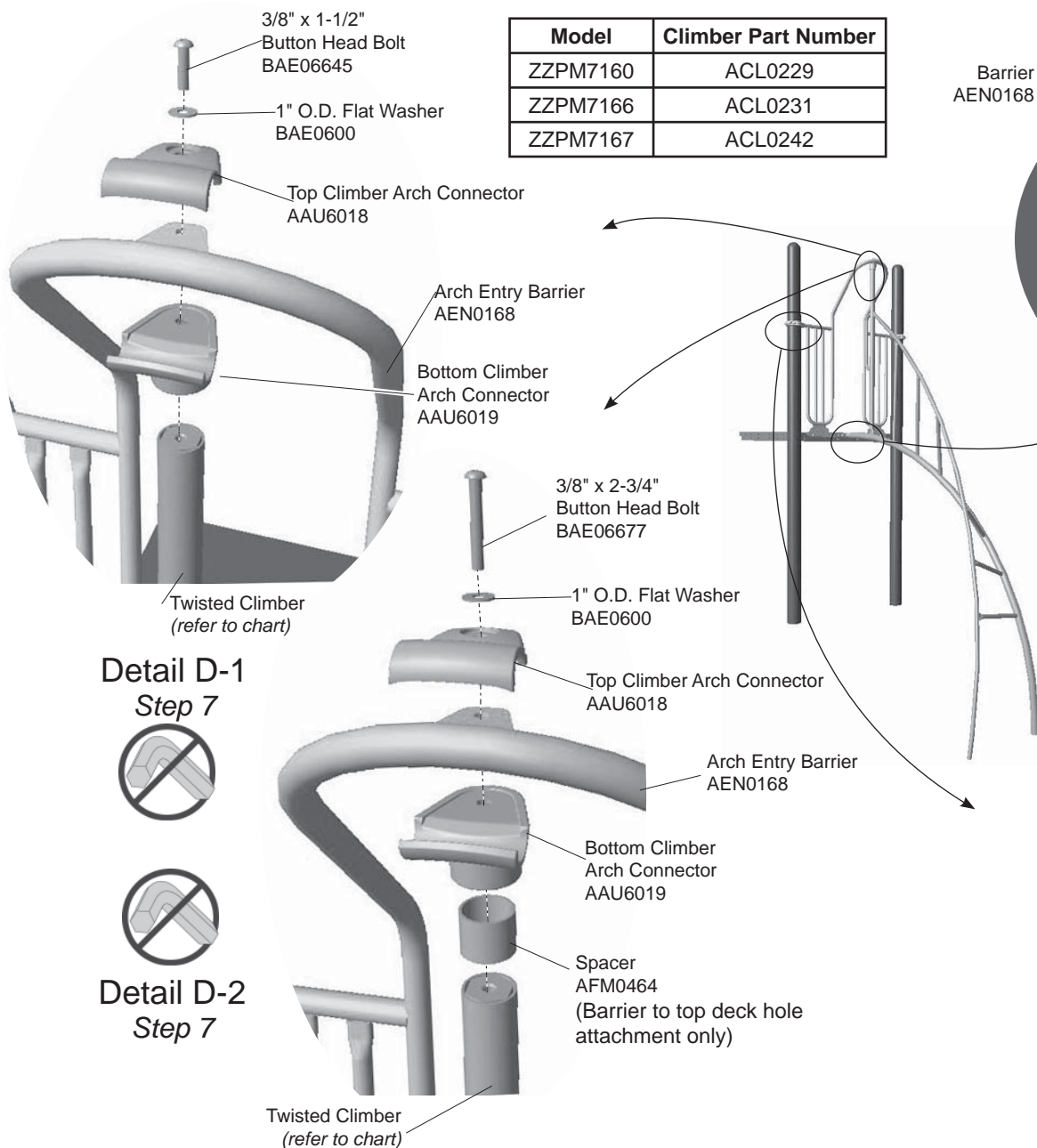
# Installation Instructions

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



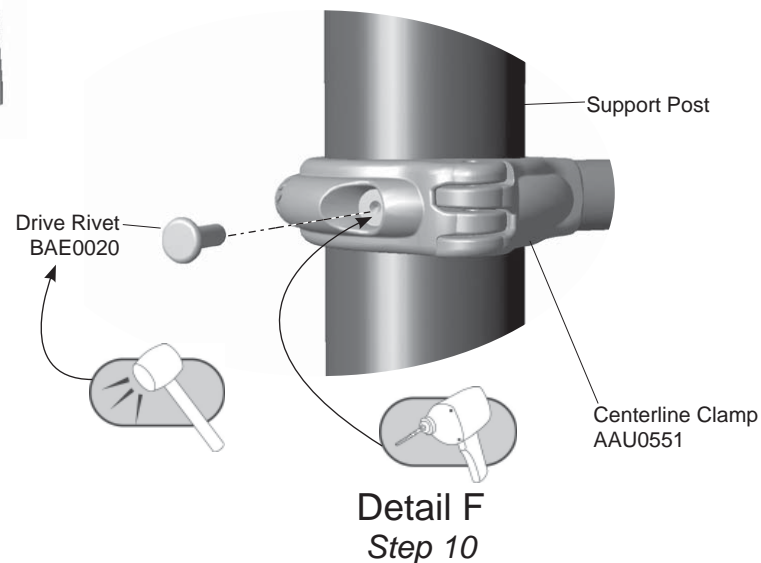
**Detail E**  
**Step 8**

**Important Note:** If attaching the barrier through the lower hole, the climber will attach to the upper deck hole with a 1" bolt (BAE0664).

**Detail D-1**  
**Step 7**



**Detail D-2**  
**Step 7**



**Detail F**  
**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 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 (BAE0664).

**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.

## PM7160 - 6 ft. (1829 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
ACL0229	CLIMBER - 6' 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" TPR 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

## PM7167 - 8 ft. (2438 mm) TWISTED CLIMBER

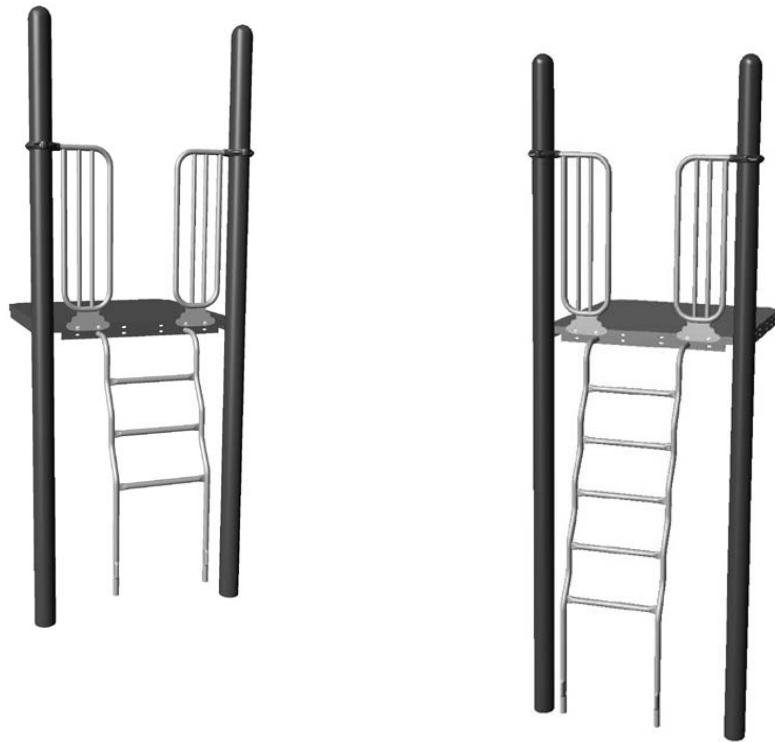
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0242	CLIMBER - 8' TWISTED	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAD0085	THREAD LOCKING ADHESIVE	1
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" TPR 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

## 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" TPR 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 models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	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

### 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)

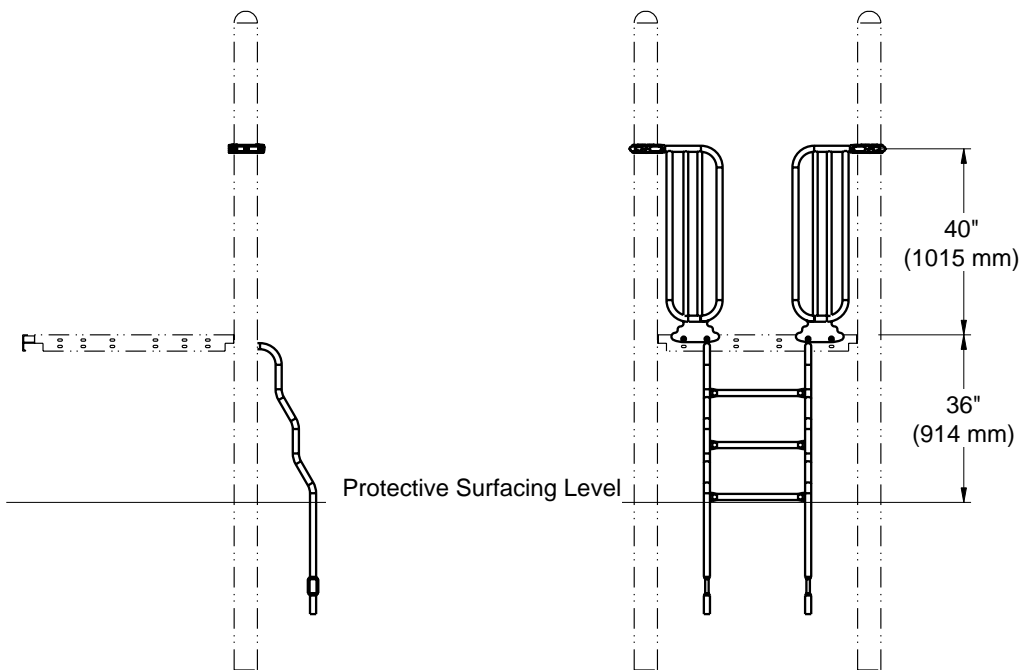
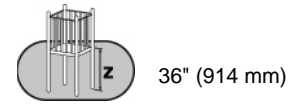
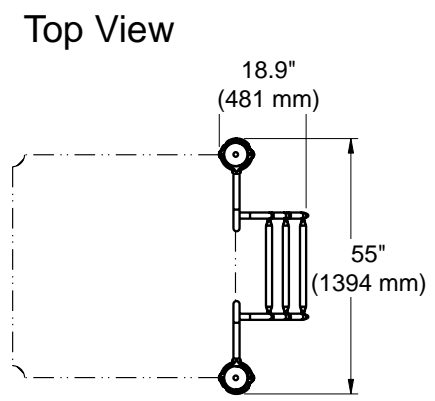
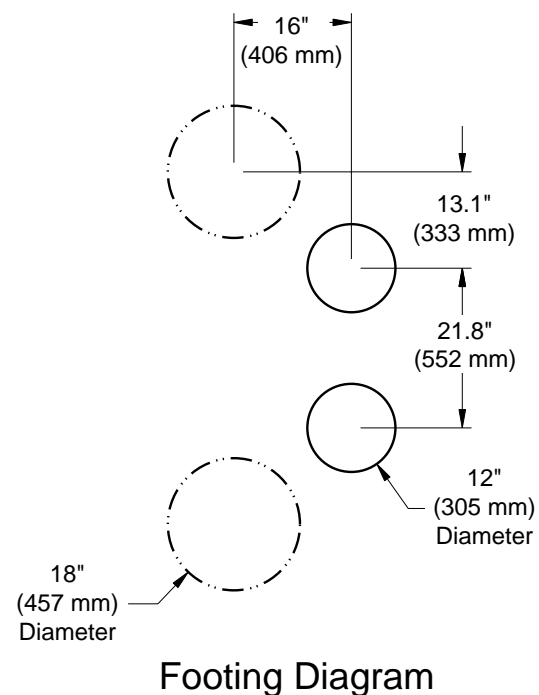
### Installation Preparation

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 <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

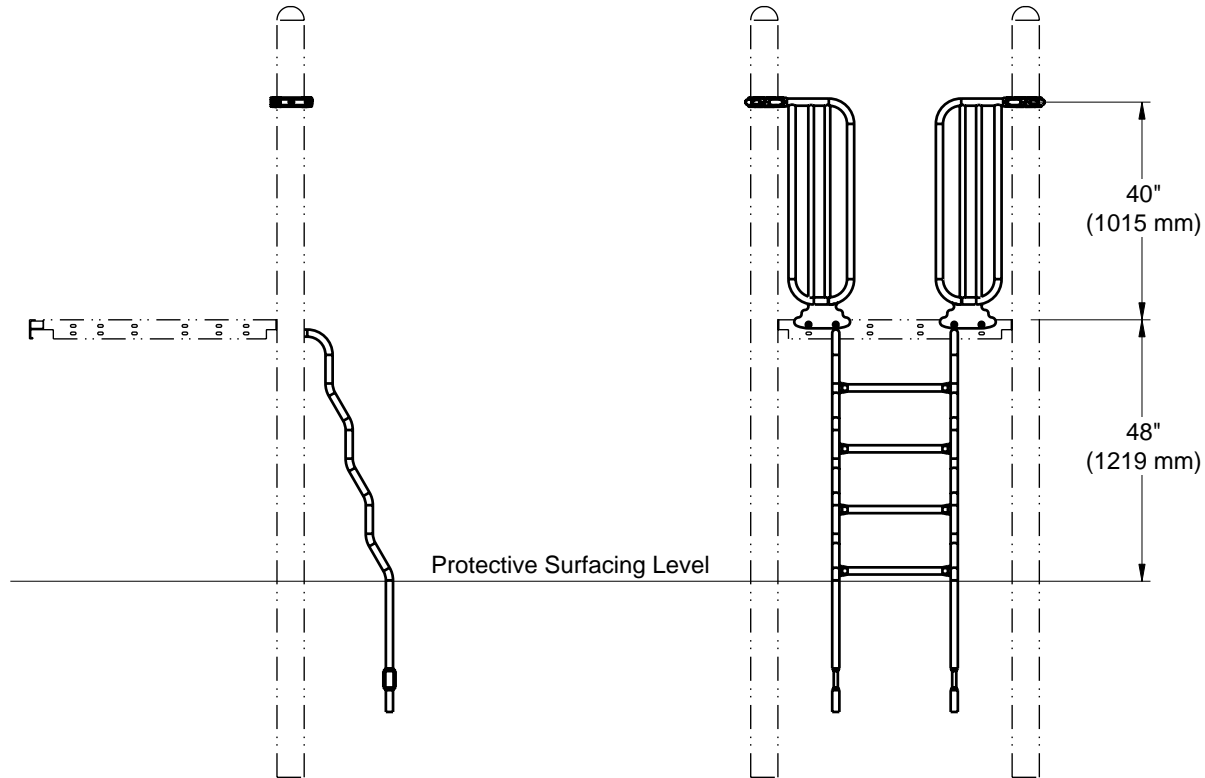
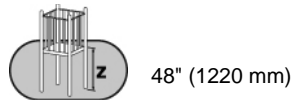
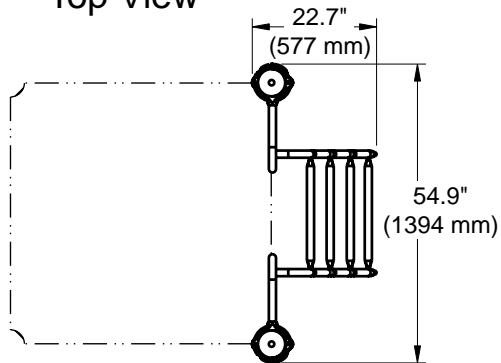
# Installation Instructions



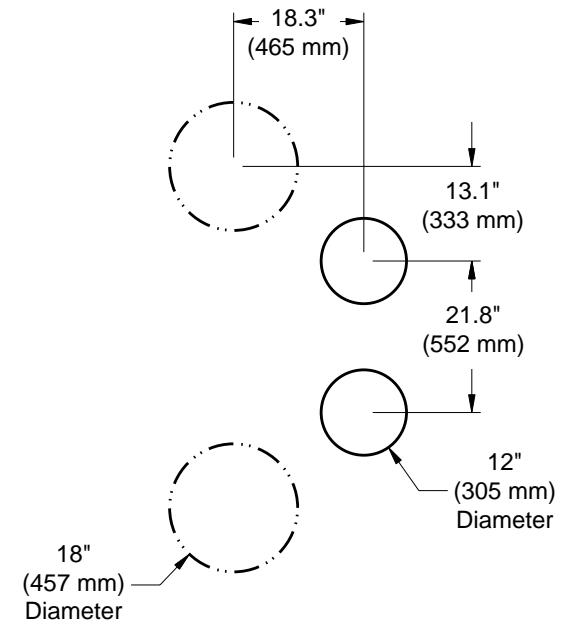
Elevation View  
36" (914 mm) Deck

# Installation Instructions

Top View



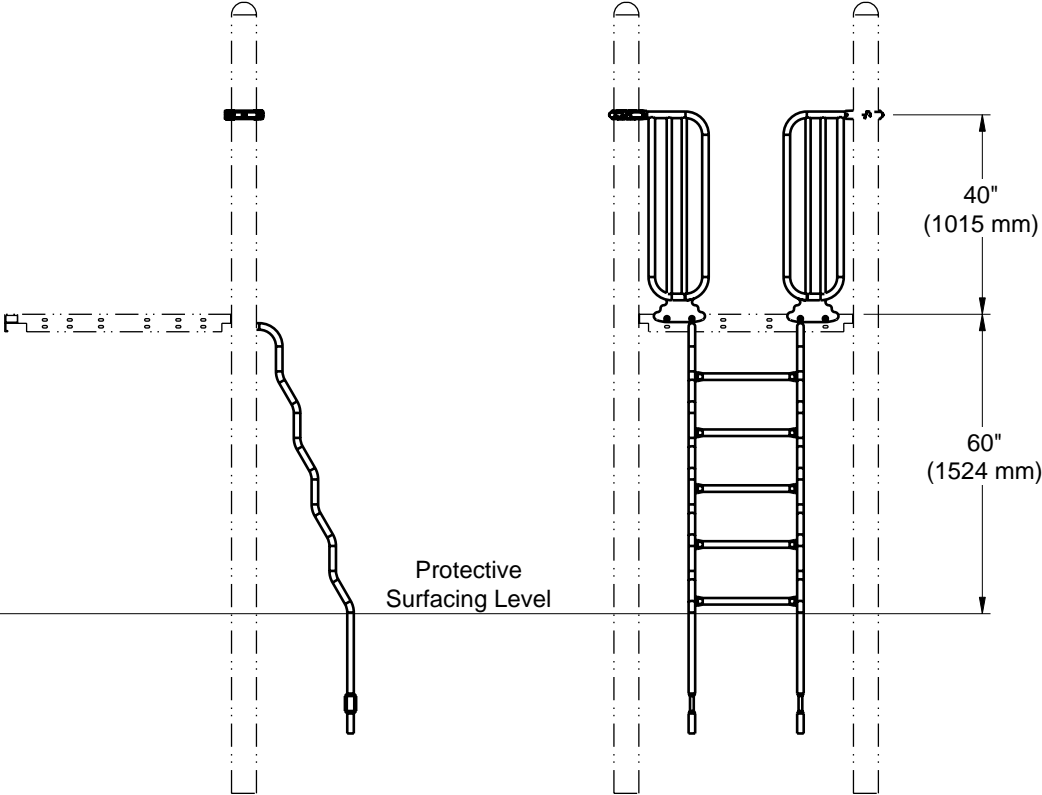
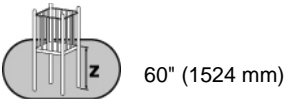
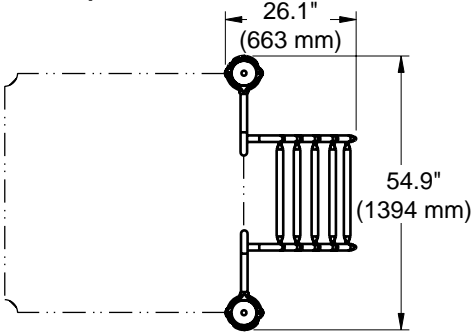
Elevation View  
48" (1219 mm) Deck



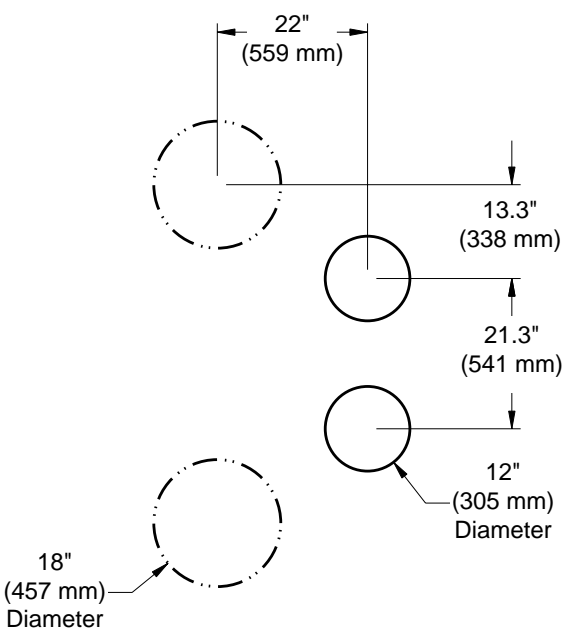
Footing Diagram

# Installation Instructions

Top View



Elevation View  
60" (1524 mm) Deck

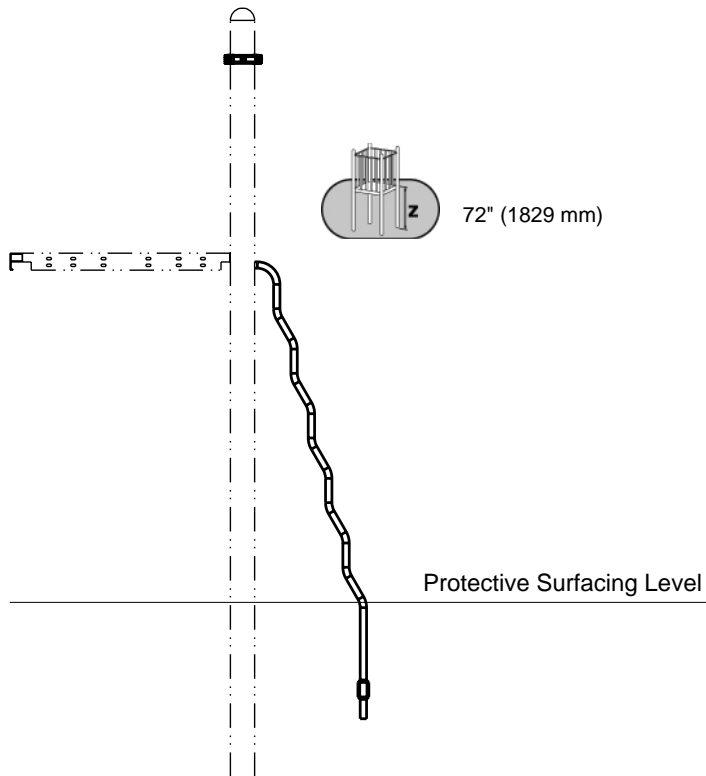
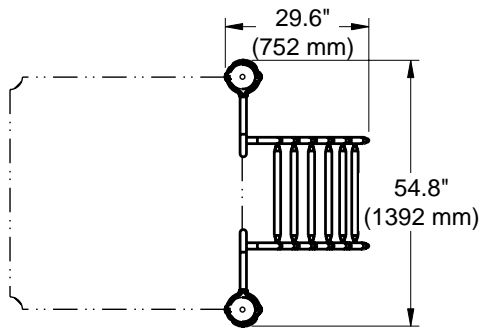


Footing Diagram

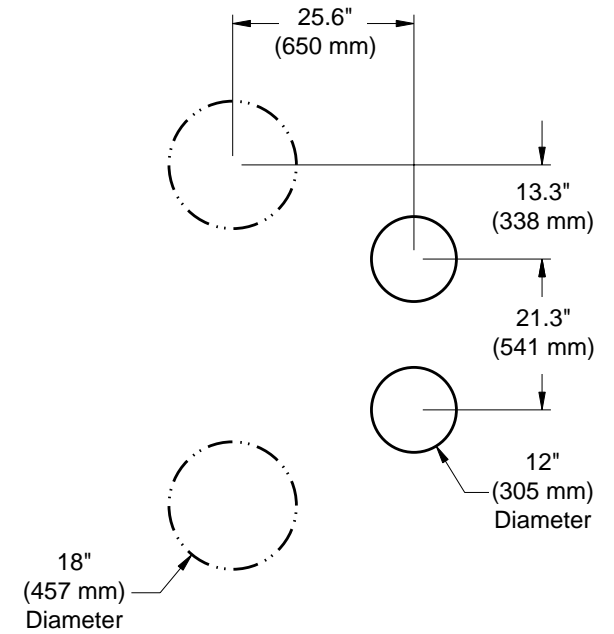
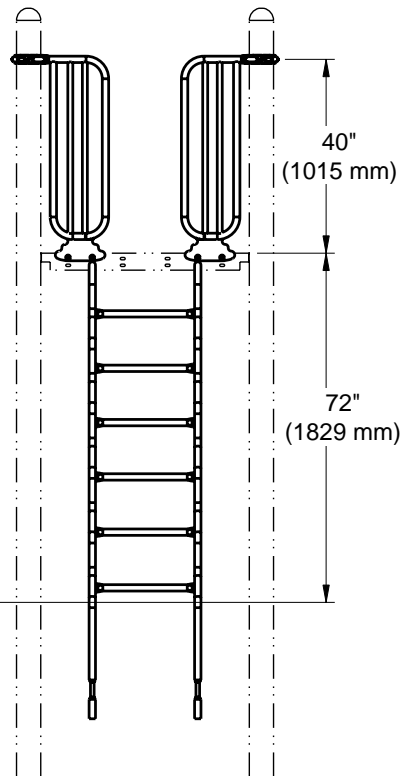


# Installation Instructions

## Top View



## Elevation View 72" (1829 mm) Deck

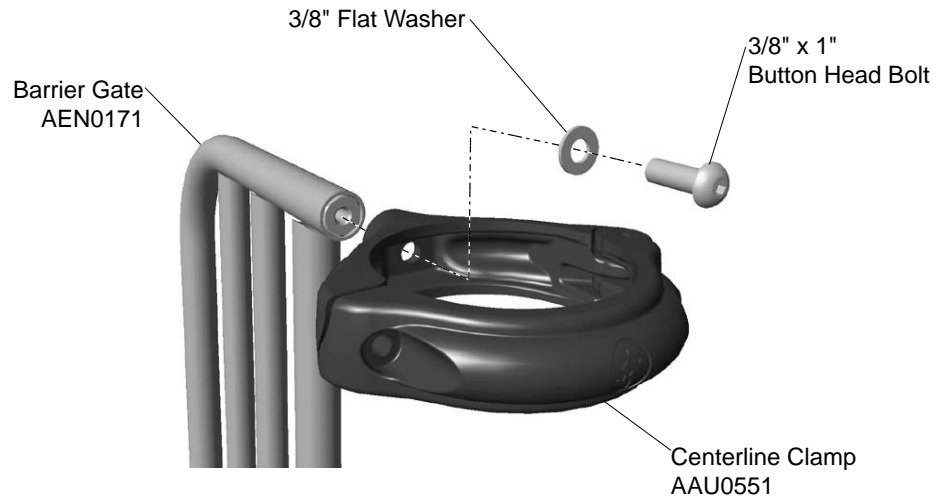


## Footing Diagram

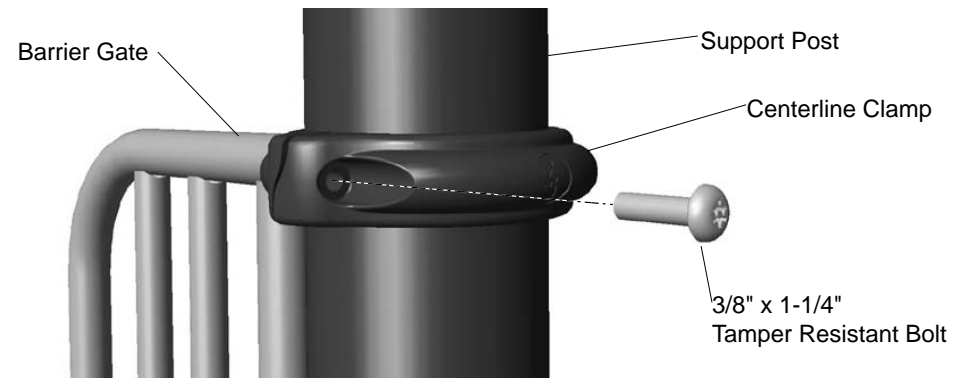


# Installation Instructions

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

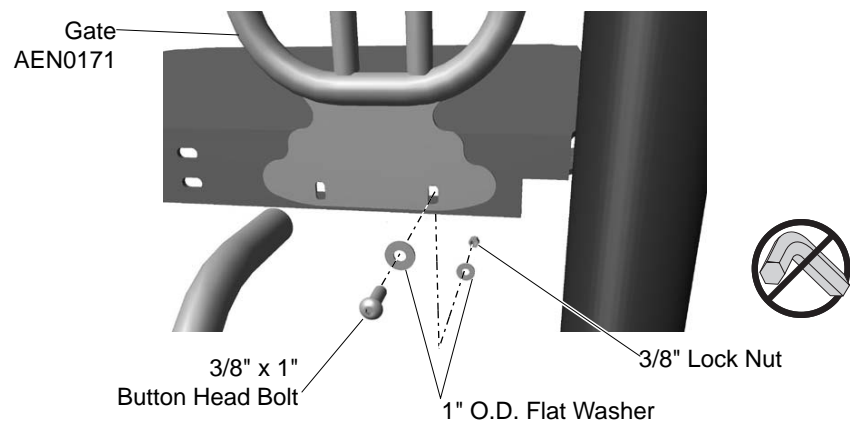


Detail A  
Step 5

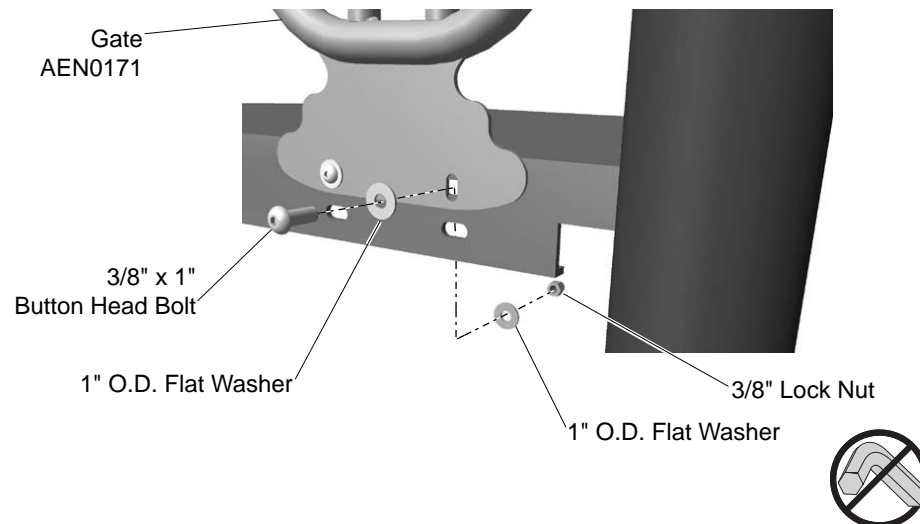


Detail B  
Step 6

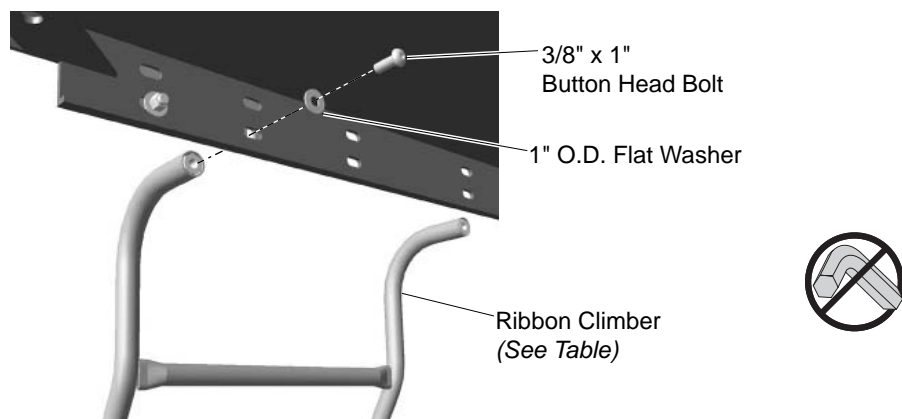
# Installation Instructions



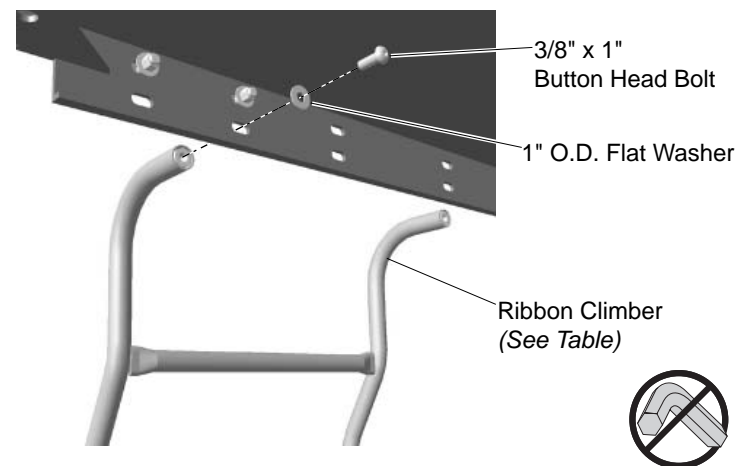
Gates in lower position



Gates in upper position

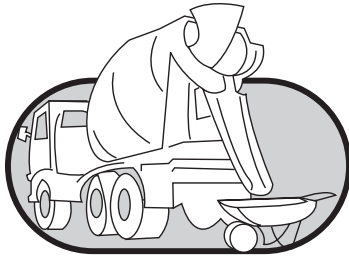


**Detail C**  
**Step 7**

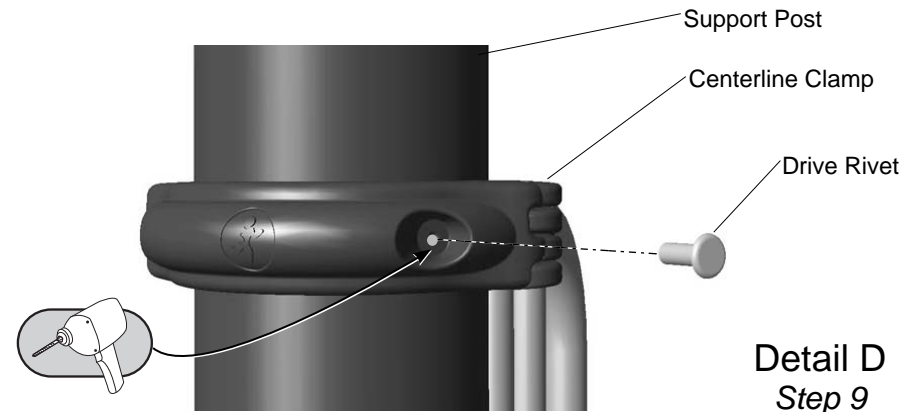


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

# 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 - 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

## 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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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

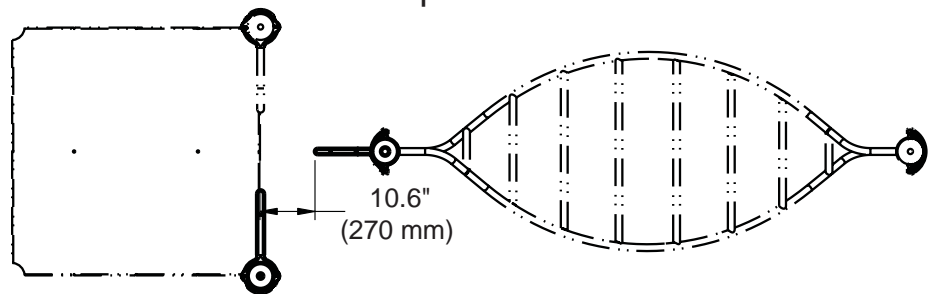
Recommended Crew: ..... One (1) adult  
 Installation Time: ..... 0.5 man-hour  
 Weight: ..... (refer to table)  
 Concrete Required: ..... 0.13 cubic yard (0,10 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

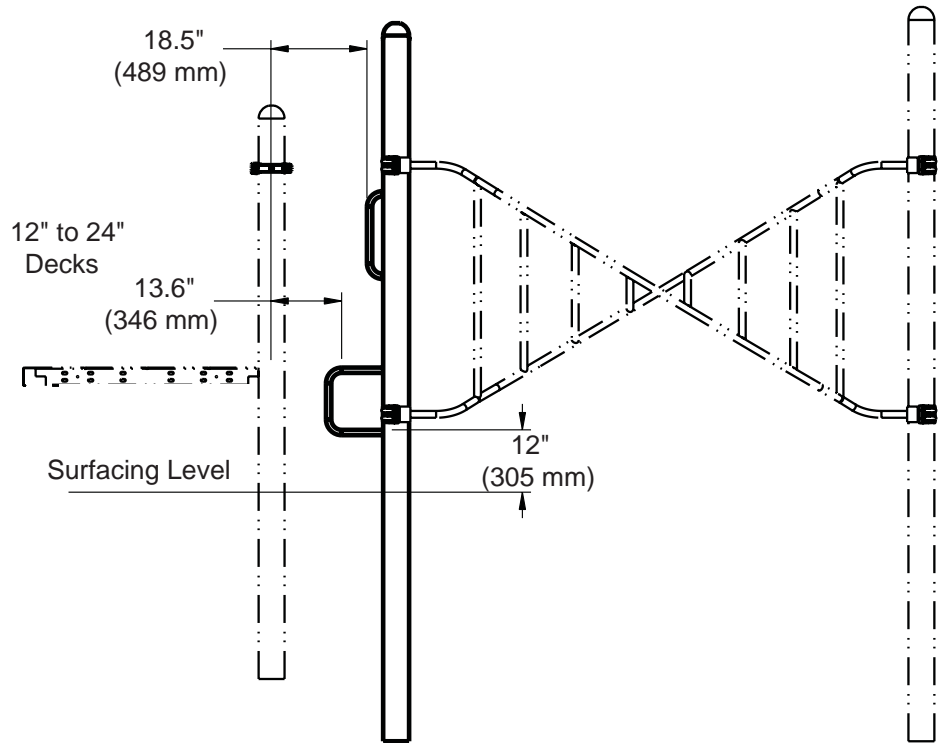
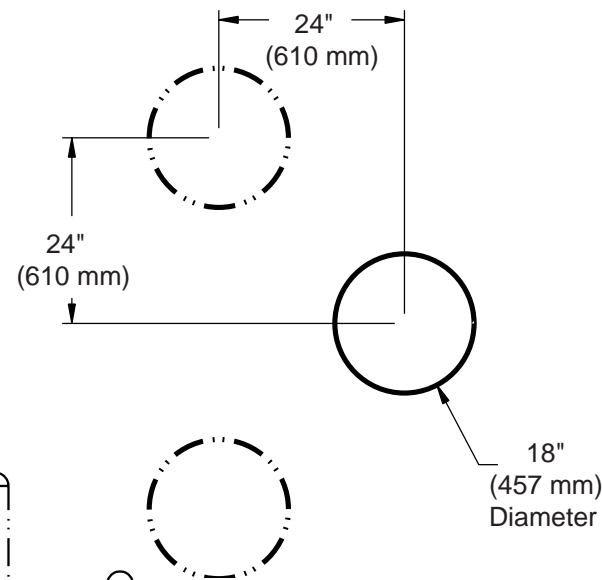
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

# Installation Instructions

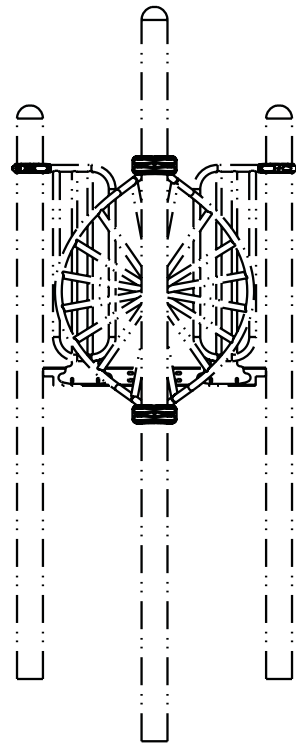
Top View



Footing Diagram



Elevation Views  
ZZPM0296

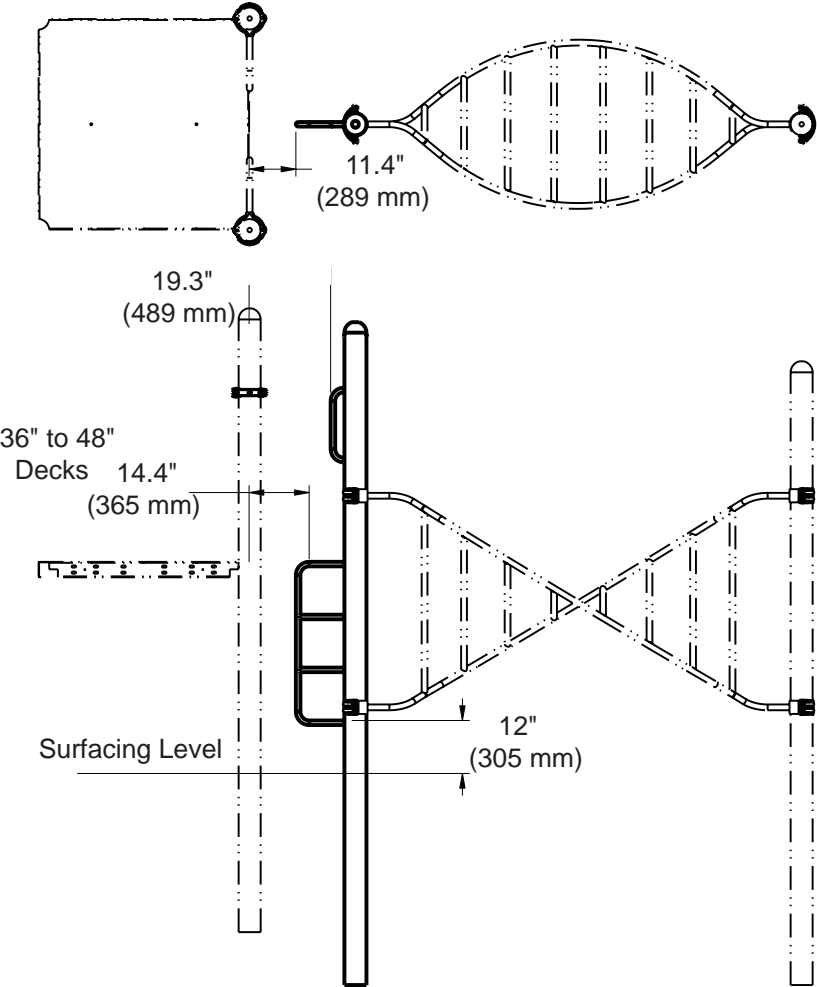


EN: 635 mm

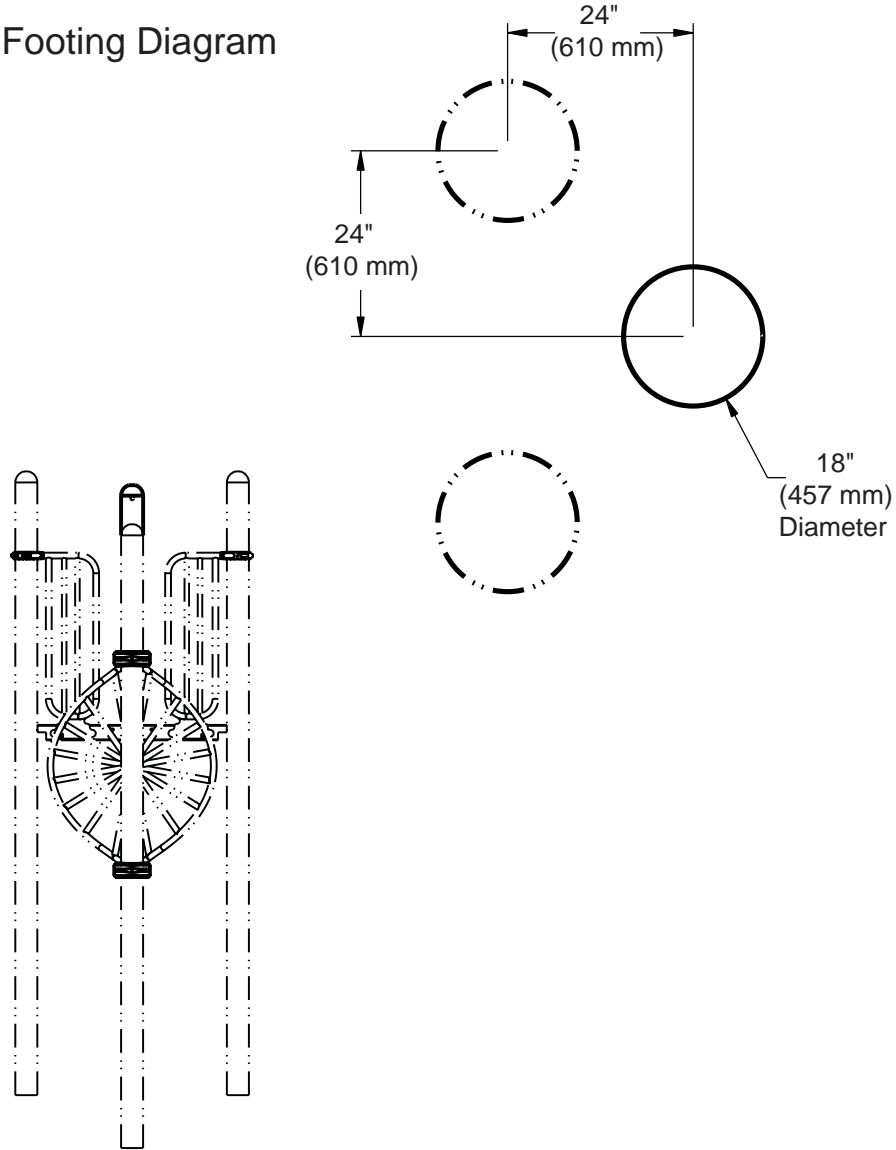


# Installation Instructions

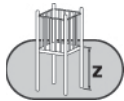
Top View



Footing Diagram



Elevation Views  
ZZPM0297

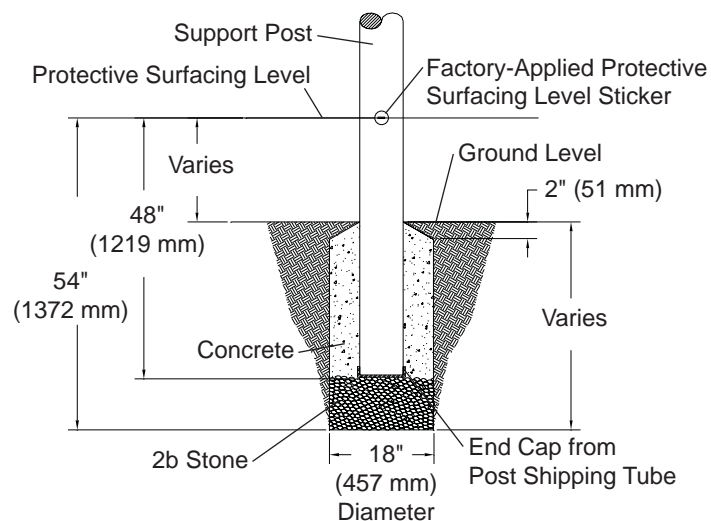


EN: 1219 mm

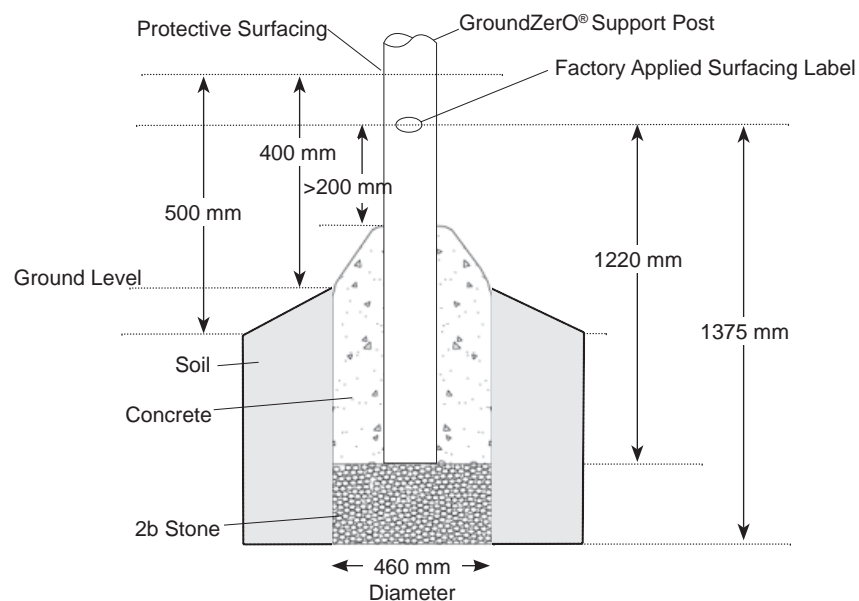




# Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



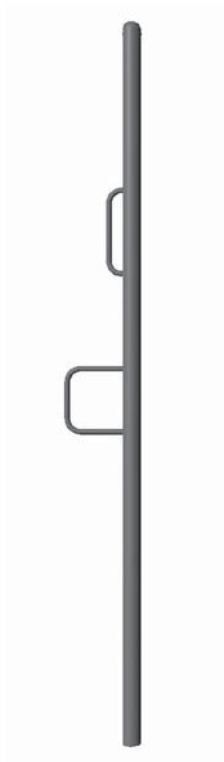
Footing Detail - GroundZero® Support Post (EN)

## 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.



Detail A  
Step 4



Step 3



Step 5

**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.

## PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

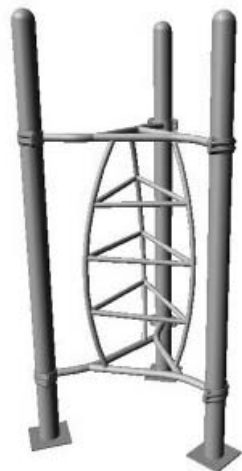
## PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1

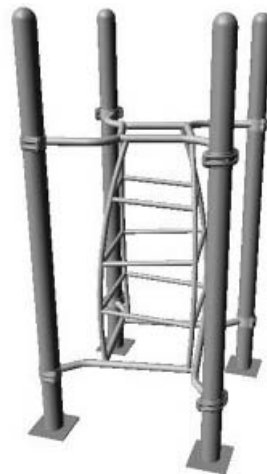


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PM9079  
TRI-JUNCTION



PM9080  
QUAD JUNCTION

Assembly View

## Installation Instructions

### Playmakers® Models PM9079 and PM9080

#### Adventure Series

#### Tri-Junction and Quad Junction Climbers

### Installation Preparation

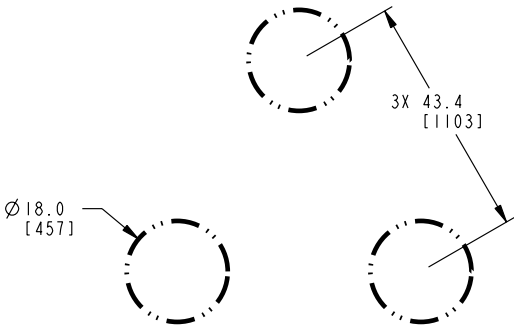
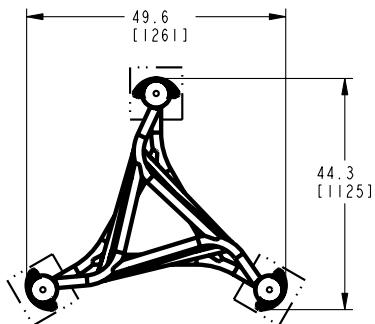
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 0.5 man-hour  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

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

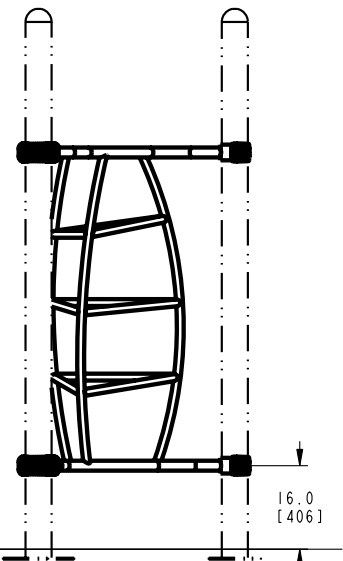
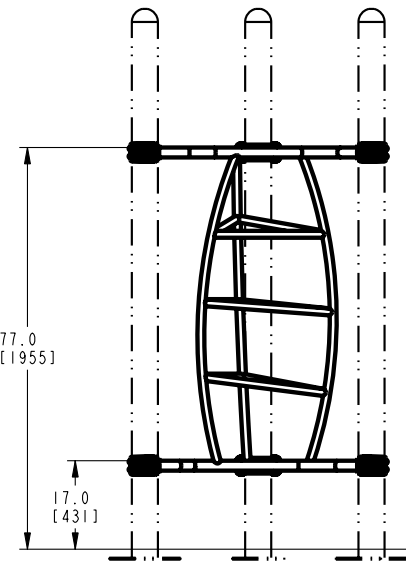
# Installation Instructions

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

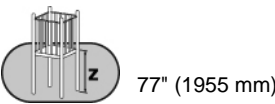
Top View



Footing Diagram



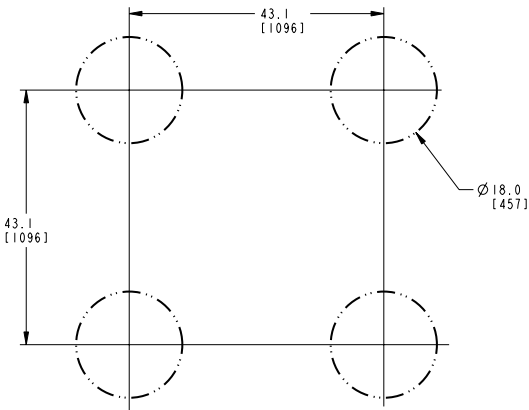
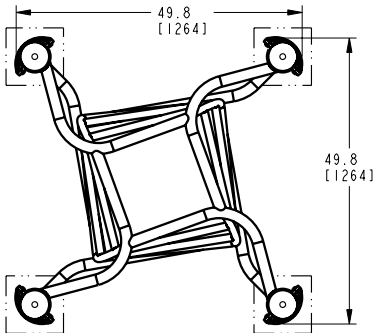
Elevation Views  
PM9079



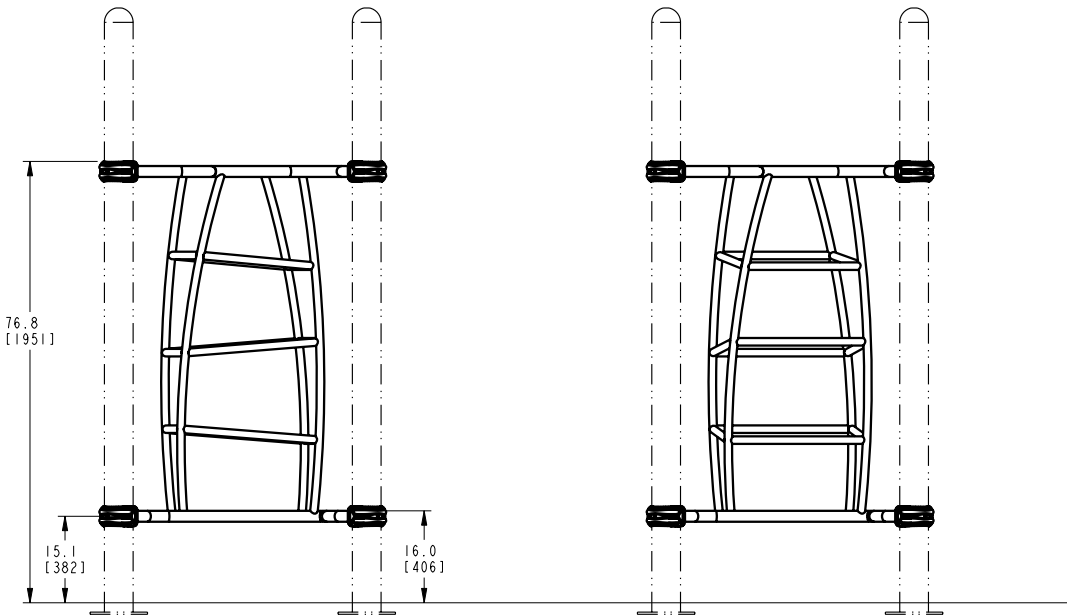
# Installation Instructions

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

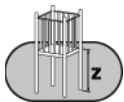
Top View



Footing Diagram



Elevation Views  
PM9080

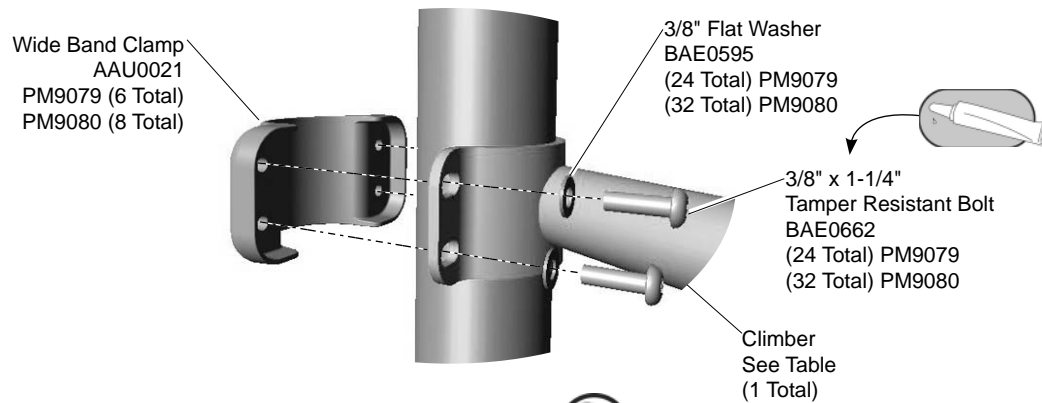


77" (1955 mm)



# Installation Instructions

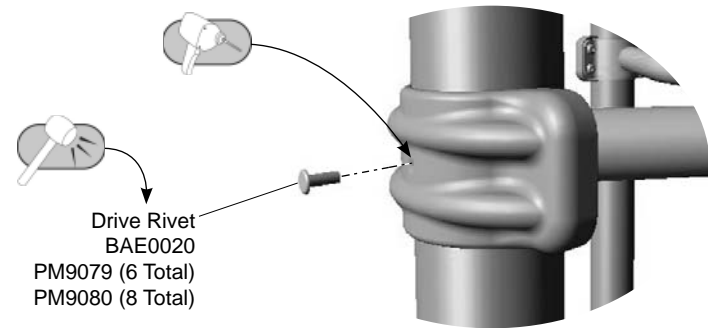
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



**Detail A**  
**Step 4**

*Attach the climber to the support posts.*

Model	Climber Number	Climber Name
PM9079	ACL0360	Tri-Junction
PM9080	ACL0362	Quad Junction



**Detail B**  
**Step 6**

*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:** Refer to the master plan top view for the location of your equipment.

**Step 4:** Attach the climber to the support posts. See **Detail A**. Position the climber between the support posts at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

## **Final Details.**

**Step 5:** 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 6:** 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.

## PM9079 - ADVENTURE SERIES TRI-JUNCTION CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	6
ACL0360	CLIMBER - TRI JUNCTION (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	24

## PM9080 - ADVENTURE SERIES QUAD JUNCTION CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	8
ACL0362	CLIMBER - QUAD JUNCTION (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	32



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## SUPERVISION INSTRUCTIONS

# PLAYWORLD SYSTEMS® THE SKY LINK & THE SKY ARCH

### **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



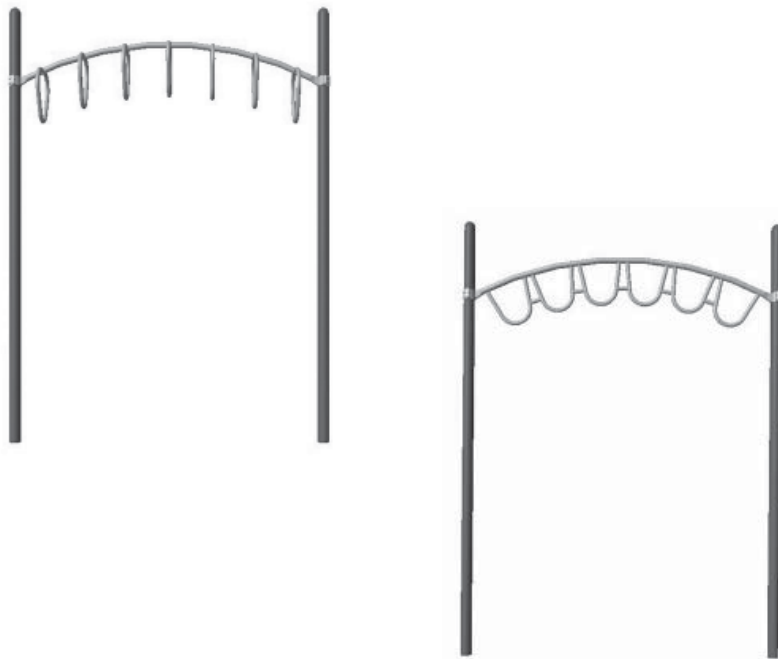
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet



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 Instructions

### Playmakers® Models PM8450 & PM8456

#### The Sky Link & The Sky Arch

### Installation Preparation

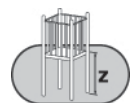
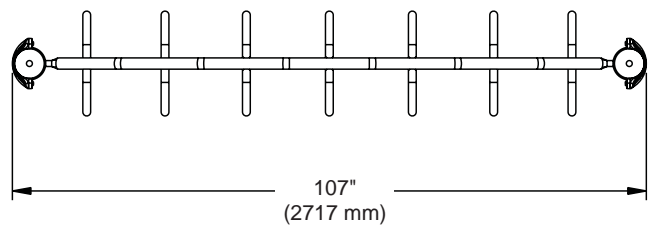
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 0.5 installation-hours  
 Weight: ..... (refer to table)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

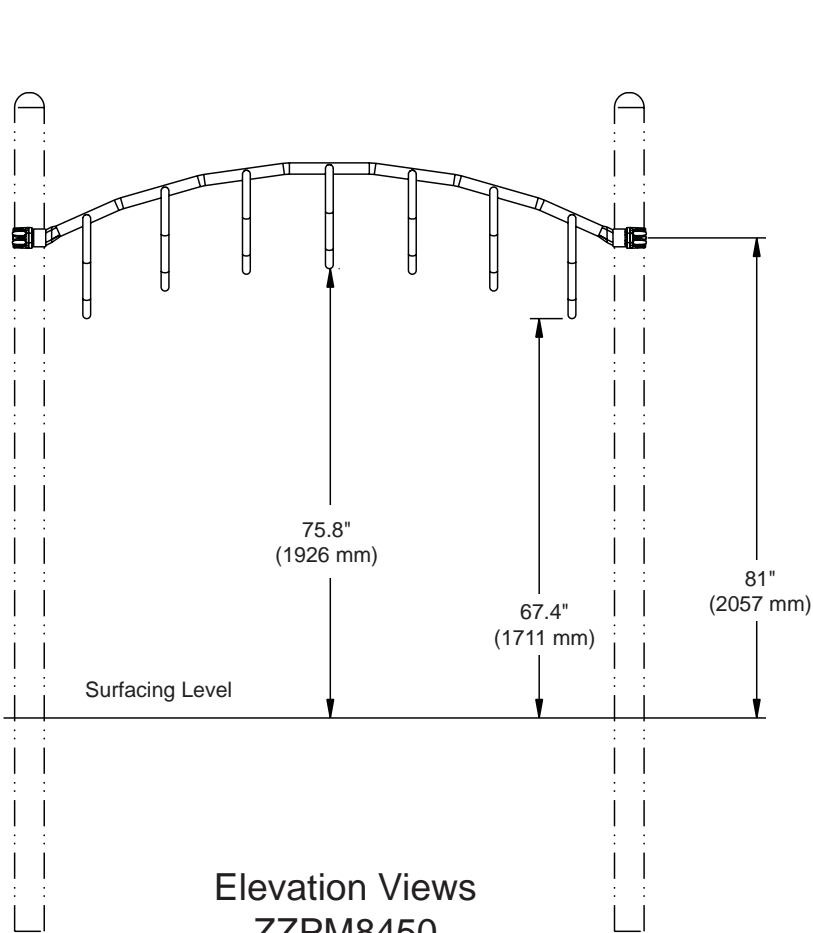
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

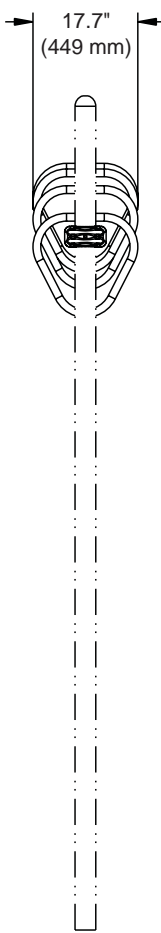
Top View



EN: 1926 mm



Elevation Views  
ZZPM8450



18"  
(457 mm)  
Diameter

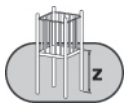
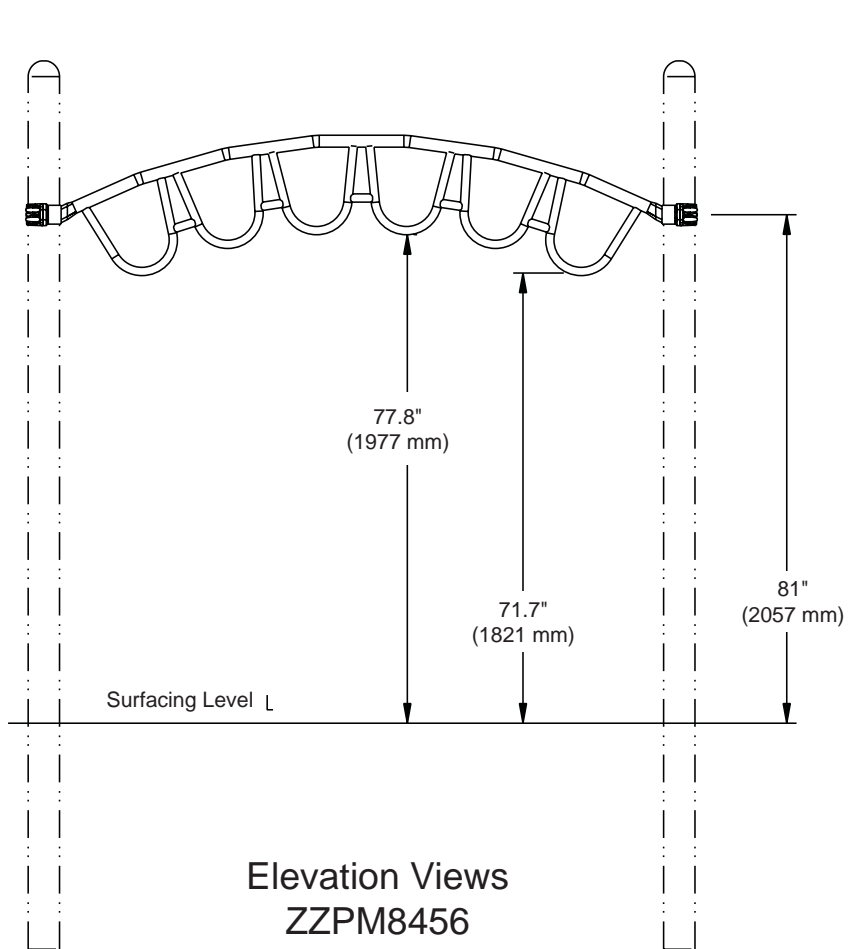
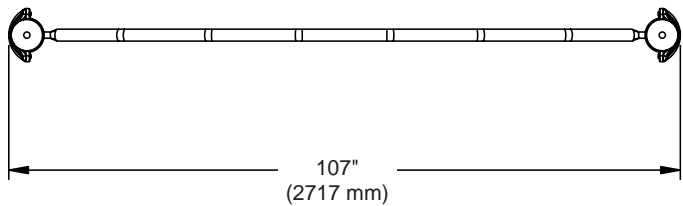
101.2"  
(2571 mm)

Footing Diagram  
Both Models



# Installation Instructions

Top View

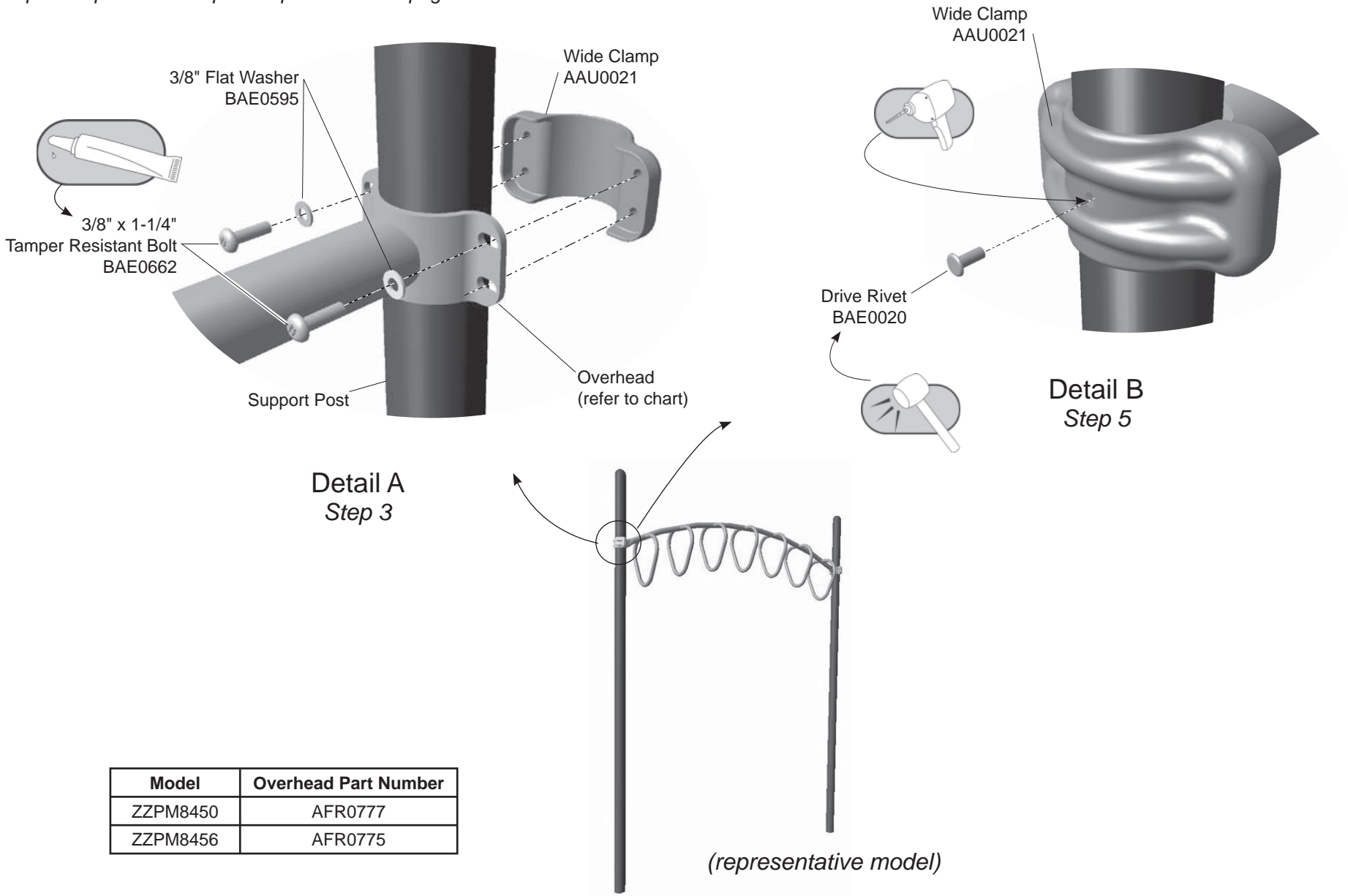


EN: 1977 mm



# Installation Instructions

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



Model	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" TPR 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" TPR RESISTANT w/TORX DRIVE	8



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Assembly View

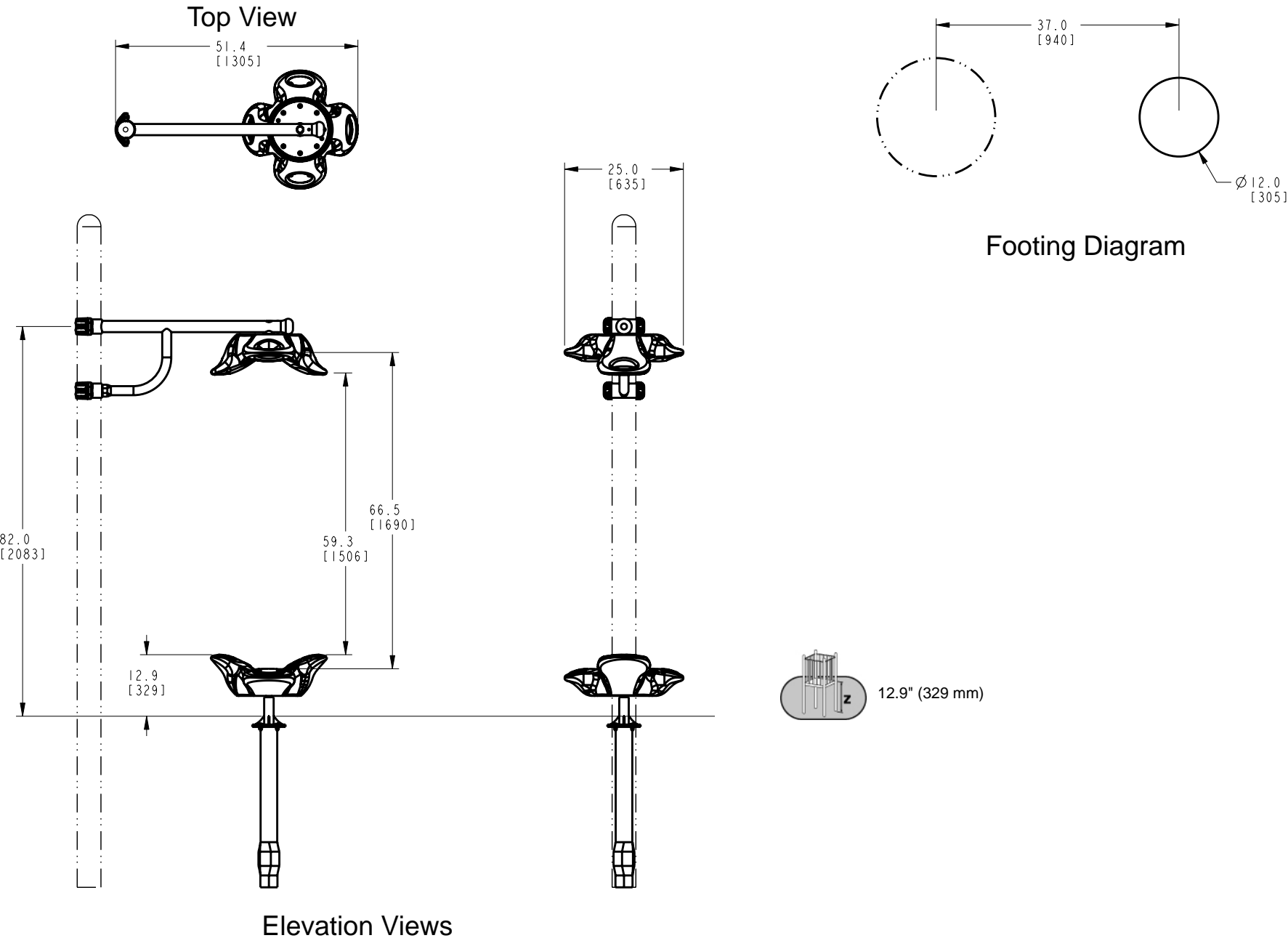
Installation Instructions  
Playmakers® Model PM6809  
Twister

Installation Preparation

Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 2 man-hours  
Concrete Required: ..... 0.05 cubic yard (0,04 cubic meters)  
Use Zone: ..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

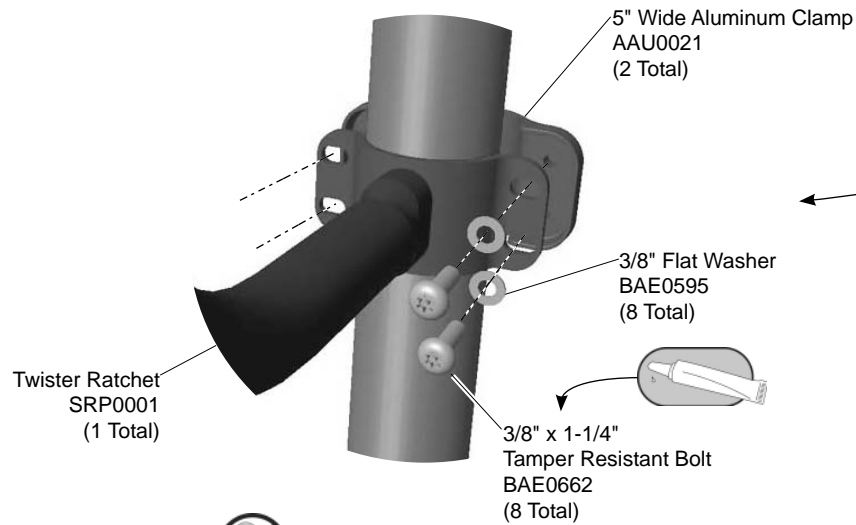
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

# Installation Instructions



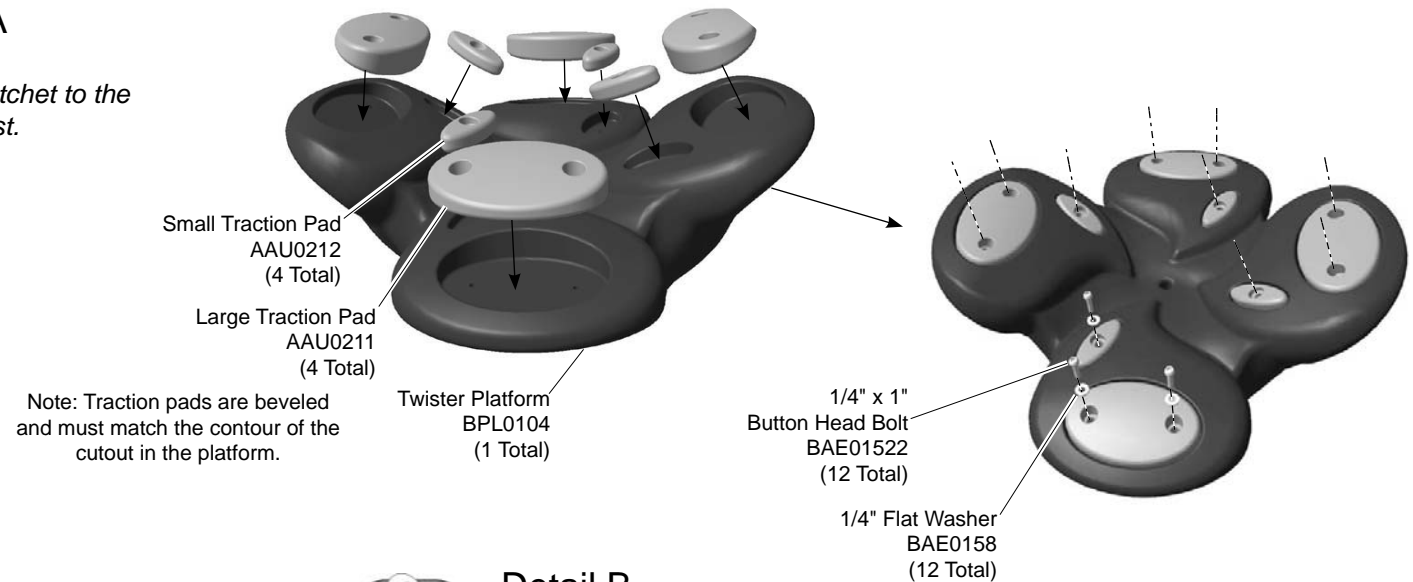
# Installation Instructions

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



## Detail A Step 4

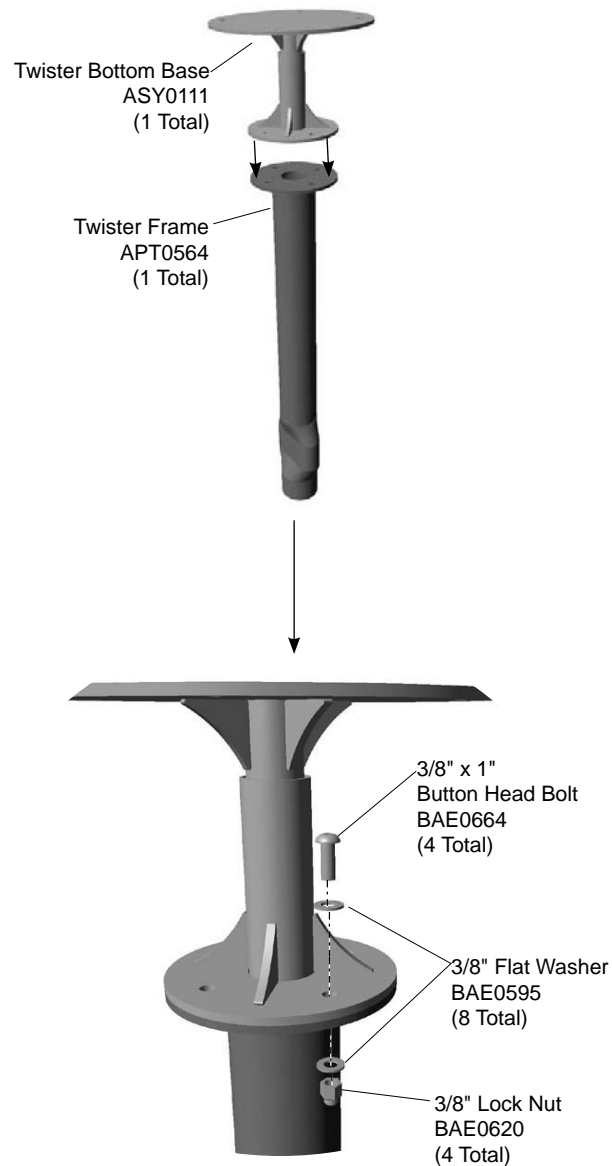
Attach the Twister ratchet to the support post.



## Detail B Step 5

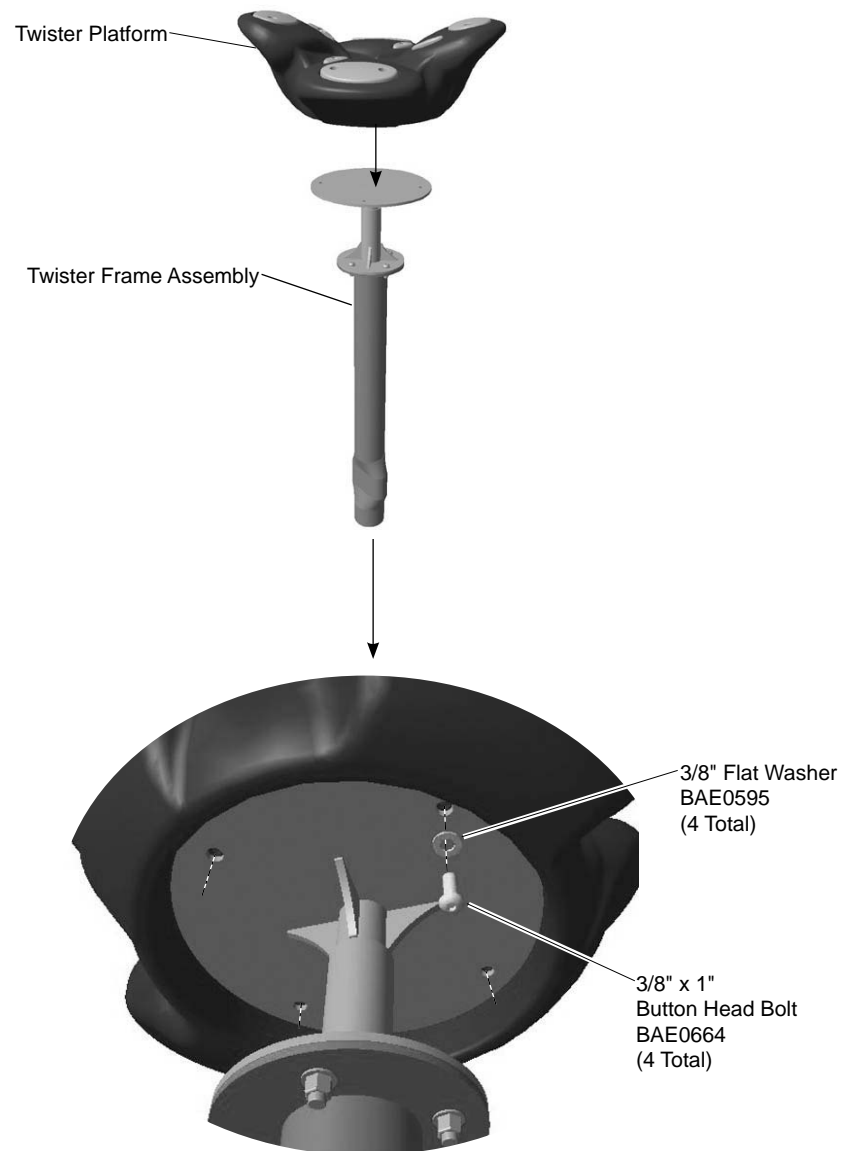
Attach the traction pads to the Twister platform.

# Installation Instructions



**Detail C**  
**Step 6**

*Attach the bottom base to the Twister frame.*



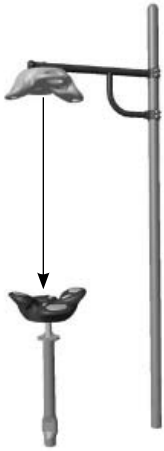
**Detail D**  
**Step 7**

*Attach the platform to the frame.*

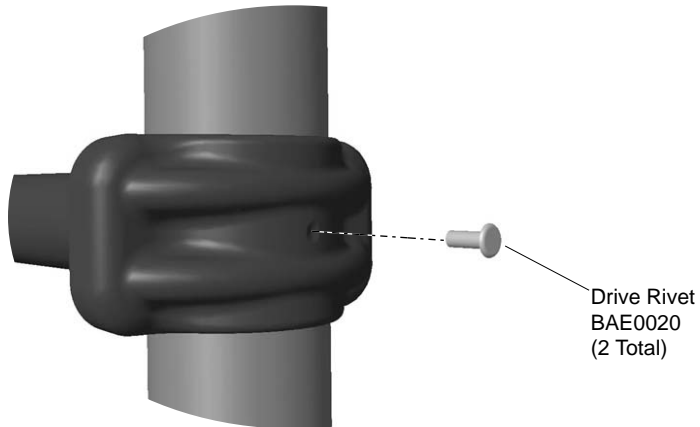


# Installation Instructions

---



**Detail E**  
**Step 8**  
*Align the ratchet with the platform.*



**Detail F**  
**Step 9**  
*Secure the clamps to the support post.*

# 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 Detail** illustrated on **page 8** of this document.

**Step 4:** Attach the Twister ratchet assembly to the support post. See **Detail A**. Raise the Twister ratchet assembly to the appropriate height as shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

**Step 5:** Attach the traction pads to the Twister platform. See **Detail B**. Place the traction pads into the appropriate recesses in the platform and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Note: The traction pads are beveled and must match the contour of the cutout in the platform.

**Step 6:** Attach the Twister bottom base to the Twister frame. See **Detail C**. Lower the base onto the frame, align the holes, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

**Step 7:** Attach the Twister platform to the Twister frame assembly. See **Detail D**. Lower the platform onto the frame assembly, align the holes, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

## Final Details.

**Step 8:** Place the Twister platform assembly in it's footing. Plumb and level the component. Make sure the Twister ratchet is aligned over the platform. See **Detail E**. 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 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.

**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.

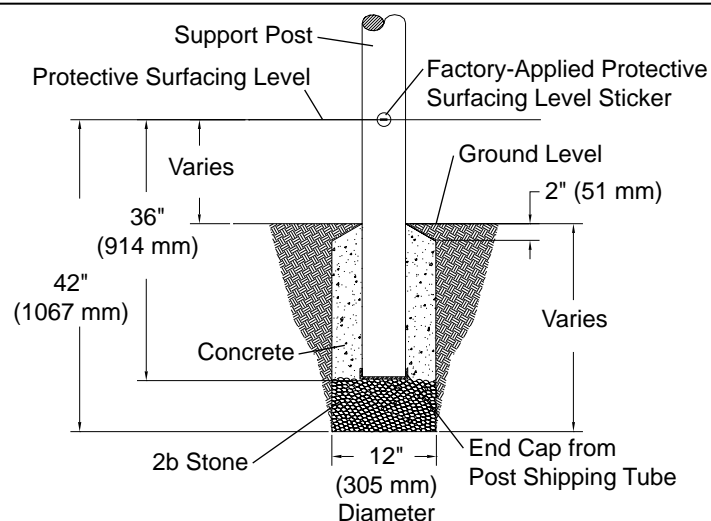
## PM6809 - TWISTER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0211	6.38" TRACTION PAD	4
AAU0212	3.38" TRACTION PAD	4
APT0564	POST - 7.00" O.D. x 34.00"	1
ASY0111	SPIN CENTRAL - BOTTOM PLATFORM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	12
BAE0158	WASHER - 1/4" SAE FLAT	12
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0104	PLATFORM - SPIN CENTRAL	1
SRP0001	SPIN CENTRAL RATCHET (PM)	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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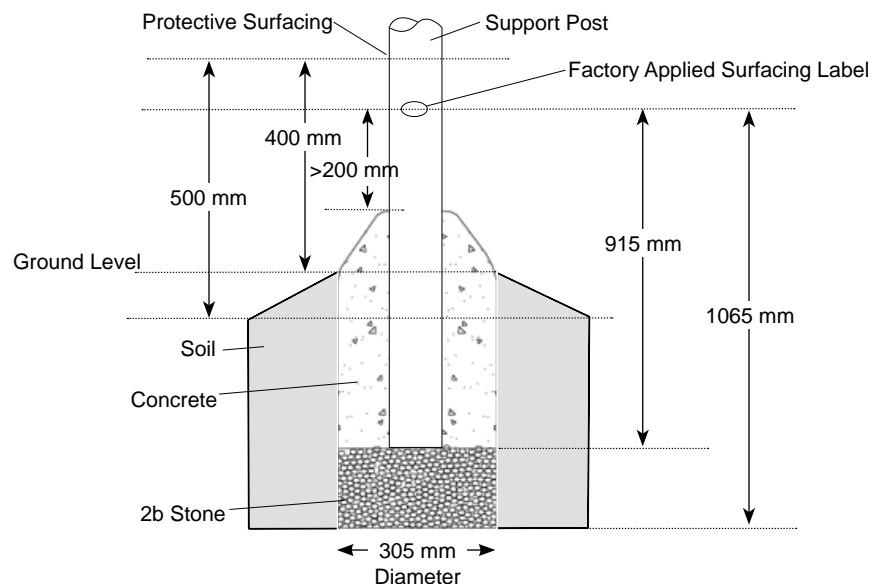
# Installation Instructions



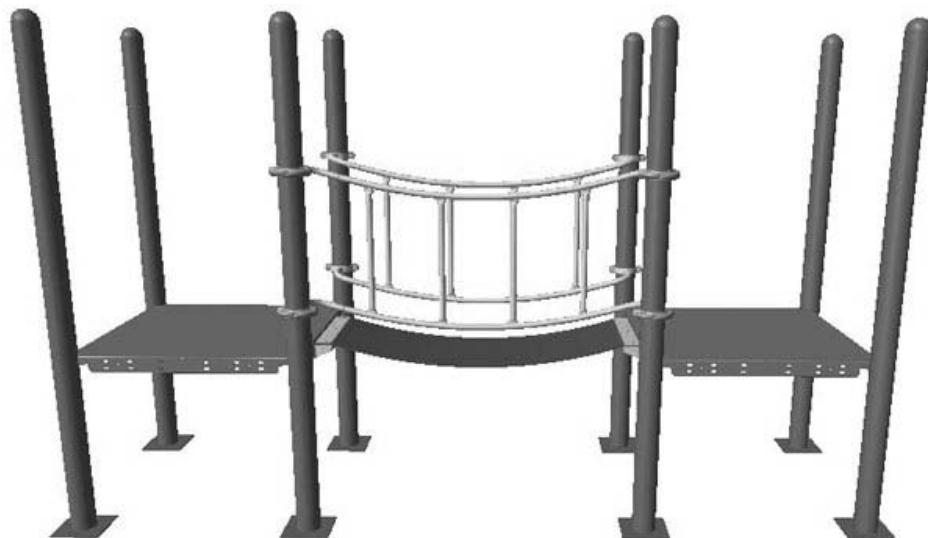
**Support Post Footing Detail (ASTM/CSA)**

## 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.



**Footing Detail - Support Post (EN)**



Assembly View (representative model)

## Installation Instructions

### Playmakers® Models PM8480 and PM8486

6 ft. (1829 mm) and 10 ft. (3048 mm)

### Ripple Bridge

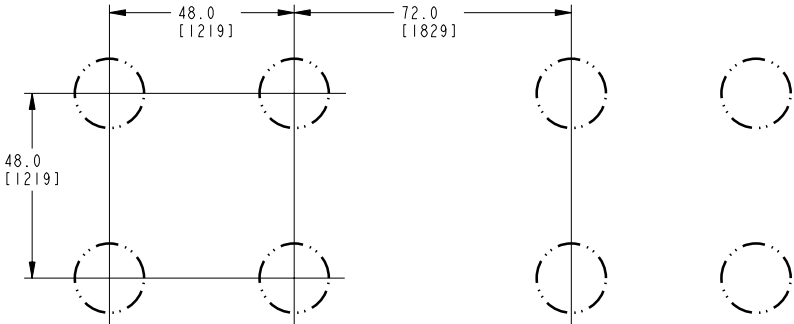
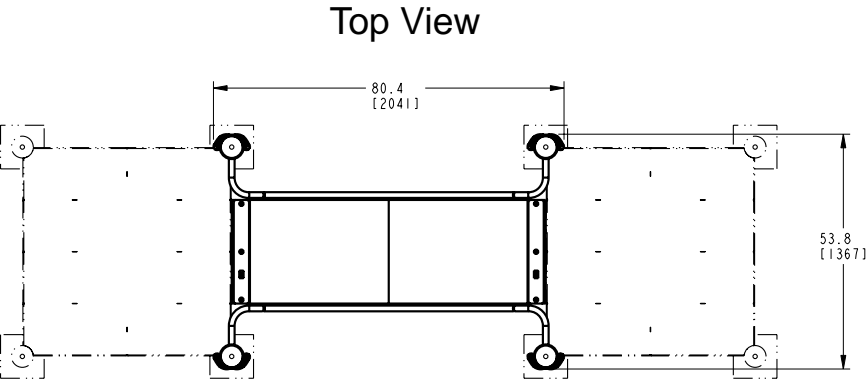
#### Installation Preparation

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

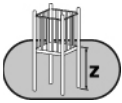
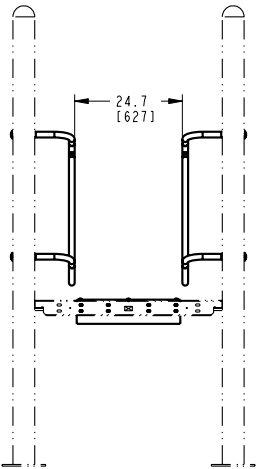
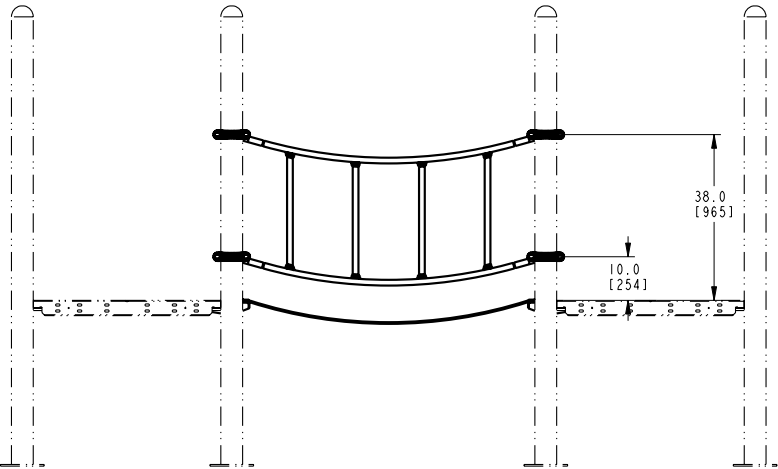
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

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



Footing Diagram



Equal to the height of the deck.

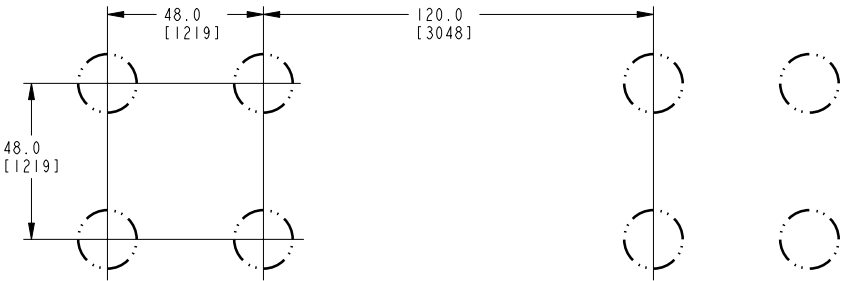
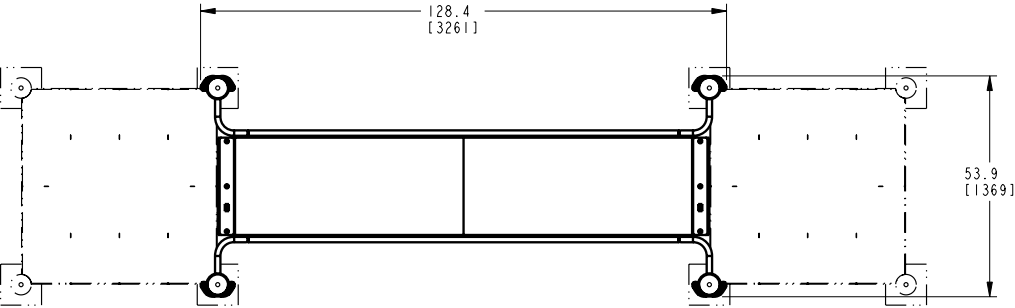
Elevation Views  
PM8480



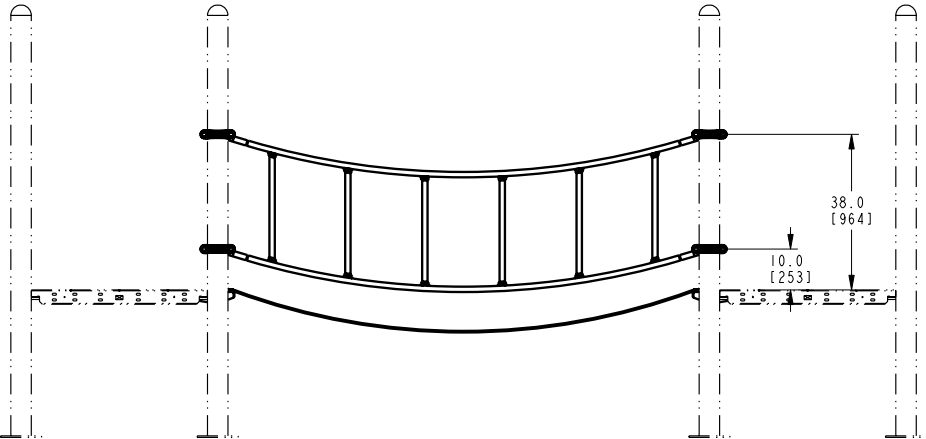
# Installation Instructions

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

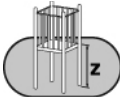
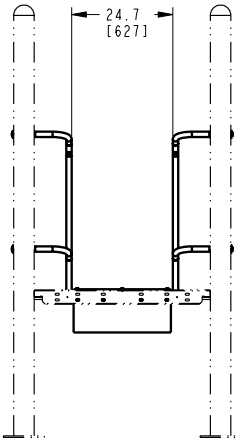
Top View



Footing Diagram



Elevation Views  
PM8486



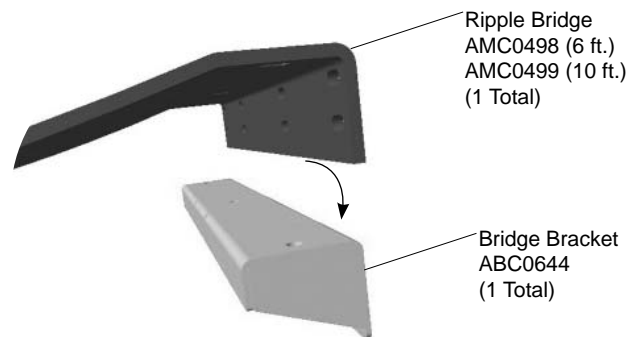
Equal to the height of the deck.





# Installation Instructions

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



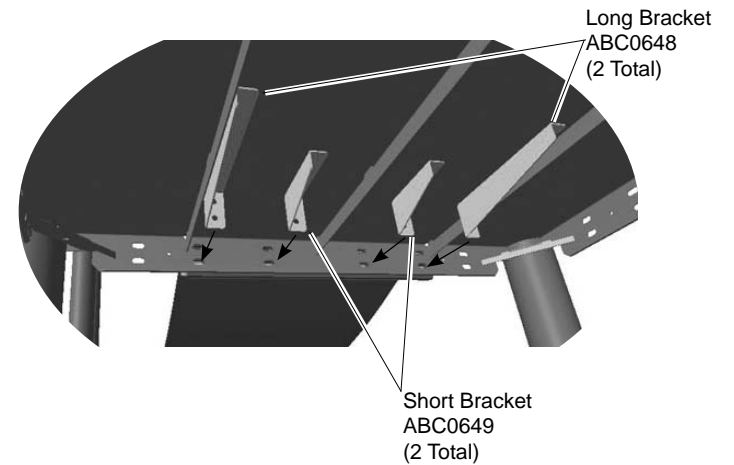
## Detail A-1

*Fold one end of the bridge down over the bracket and align the holes.*



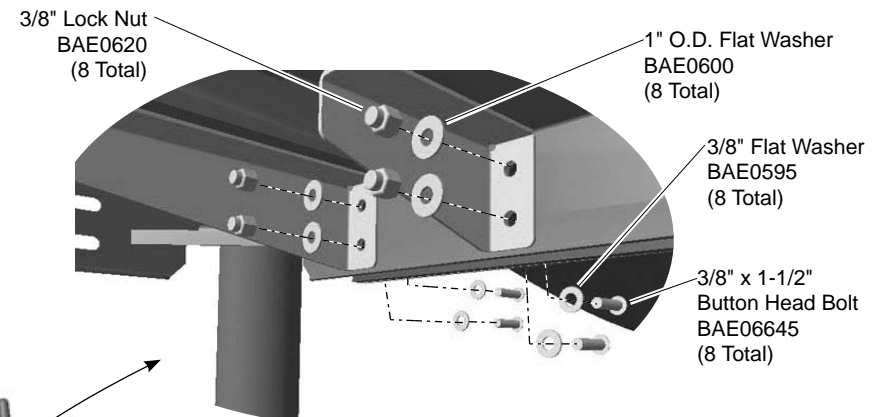
## Detail A-2

*Position the bridge and bracket against a deck and align the holes.*



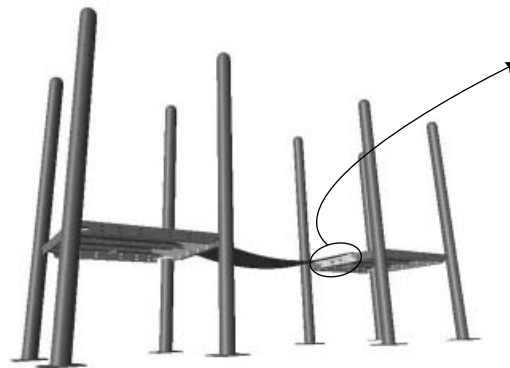
## Detail A-3

*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

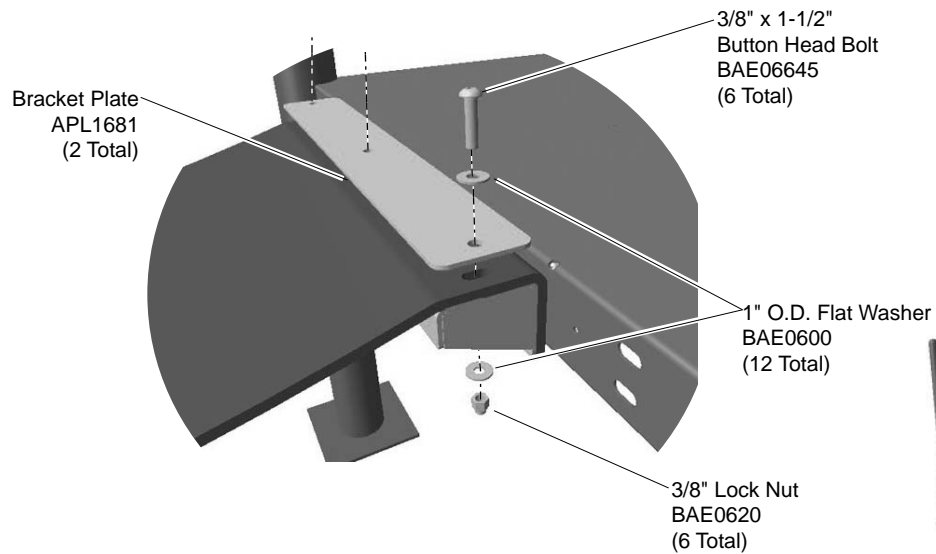
*Attach one end of the bridge to a deck.*



# Installation Instructions

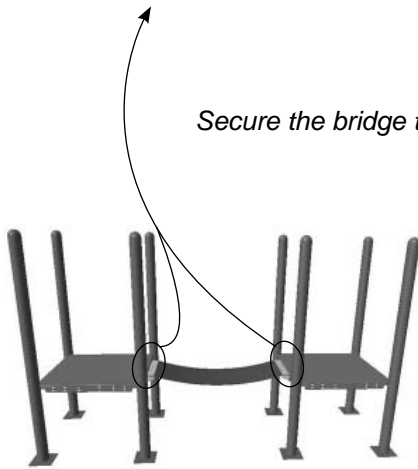
## Step 4

**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.**



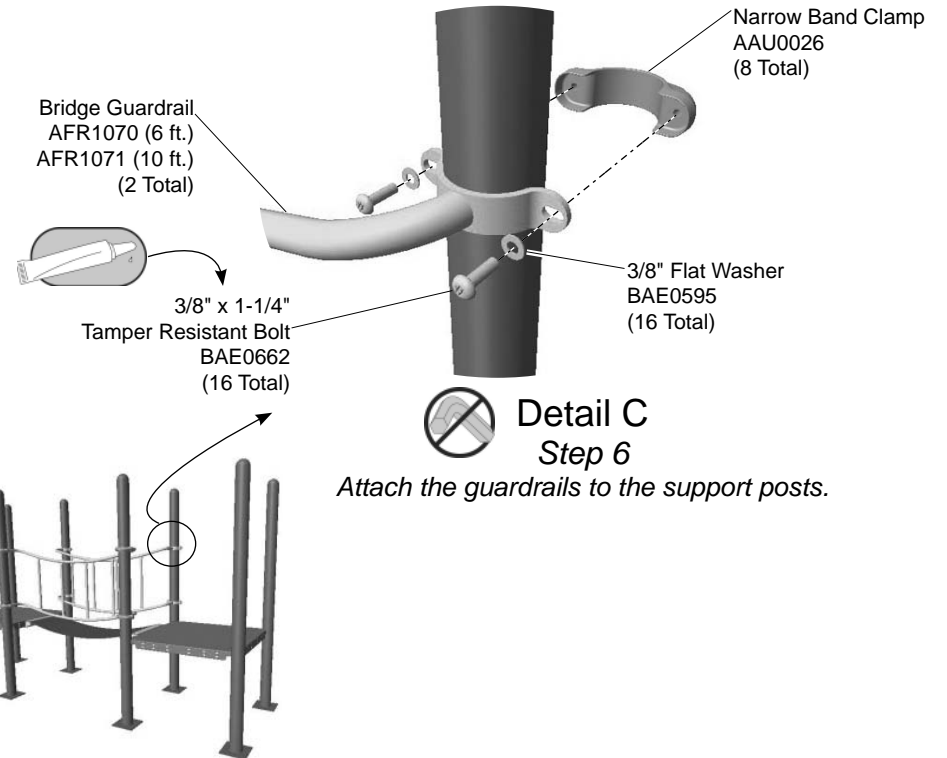
## Detail B Step 5

**Secure the bridge to the top of the bridge bracket.**



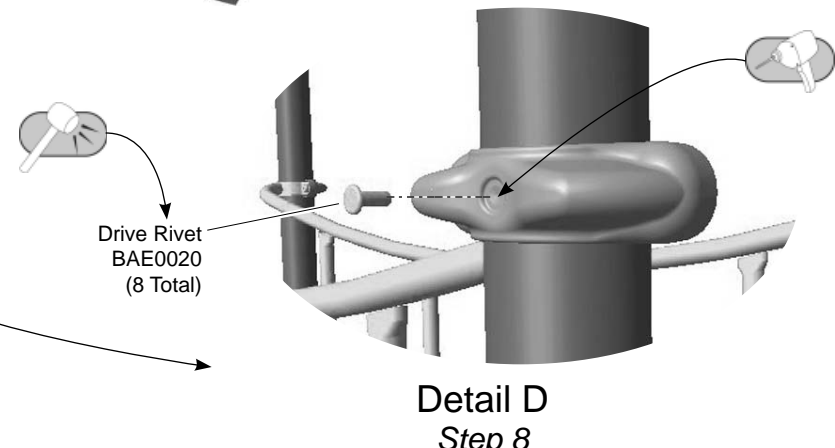
## Detail C Step 6

**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" TPR 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" TPR 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

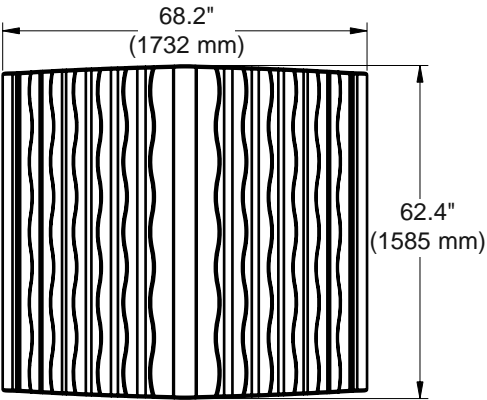
Installation Instructions  
Playmakers®  
Model PM9846  
Cabana Roof

Installation Preparation

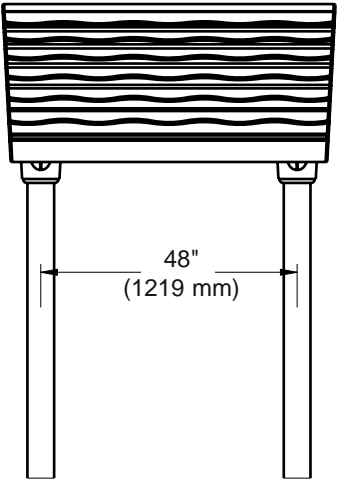
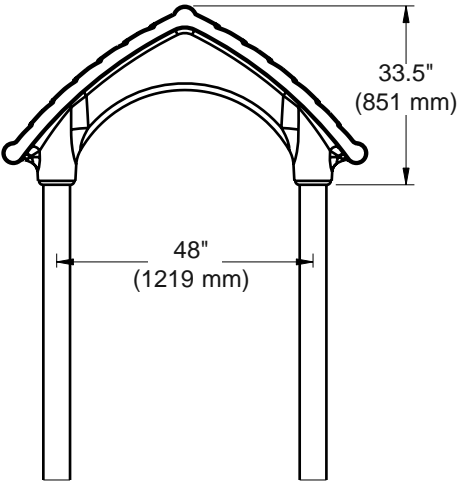
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 123 lbs. (55,9 kg)

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

# Installation Instructions



Top View



Elevation Views  
ZZPM9846

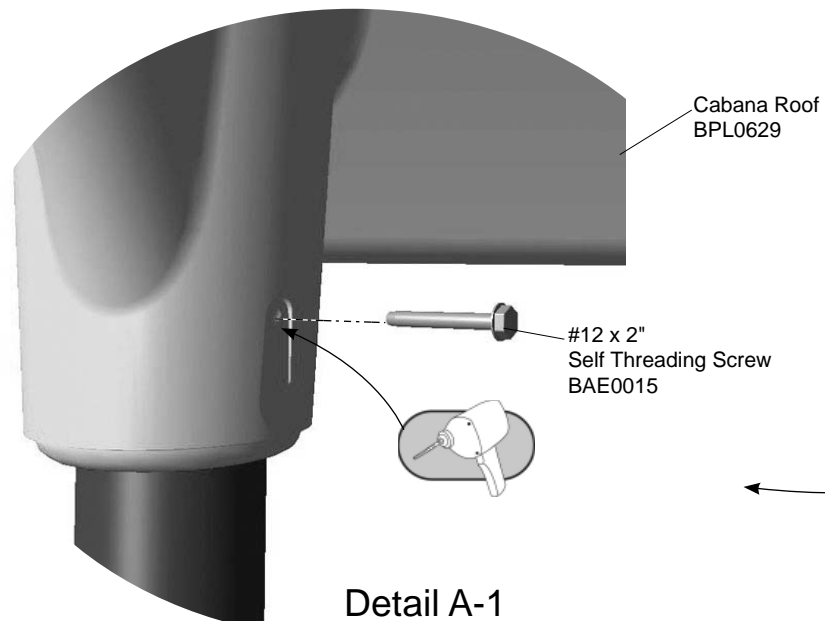


# Installation Instructions

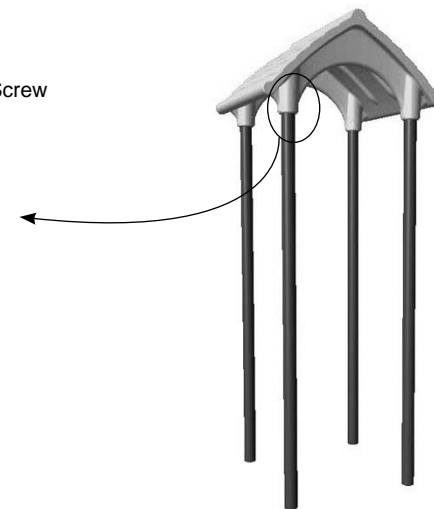
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1  
Step 3



Detail A-1  
Step 3





# 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.

## 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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--



# STEVENS STREET PARK

2 TO 5 YEAR OLD, OPTION #5

**LR**  
**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





# STEVENS STREET PARK

2 TO 5 YEAR OLDS, OPTION #5



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: PW111714-2

Use Zone:

# of Users: 24

# of Active Play Events: 9

Age: 2 to 5

Colors Shown:



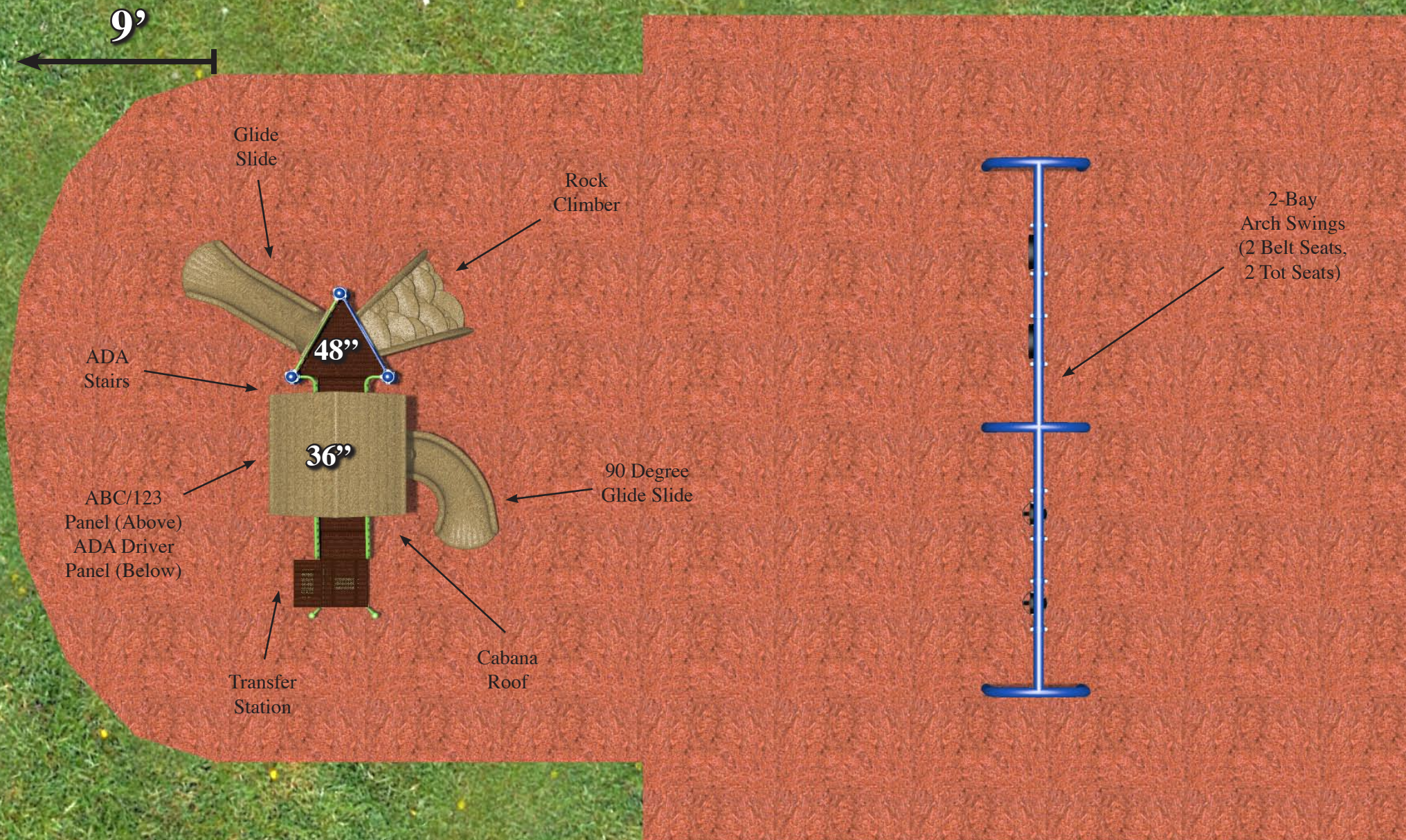
Blue



Brownstone

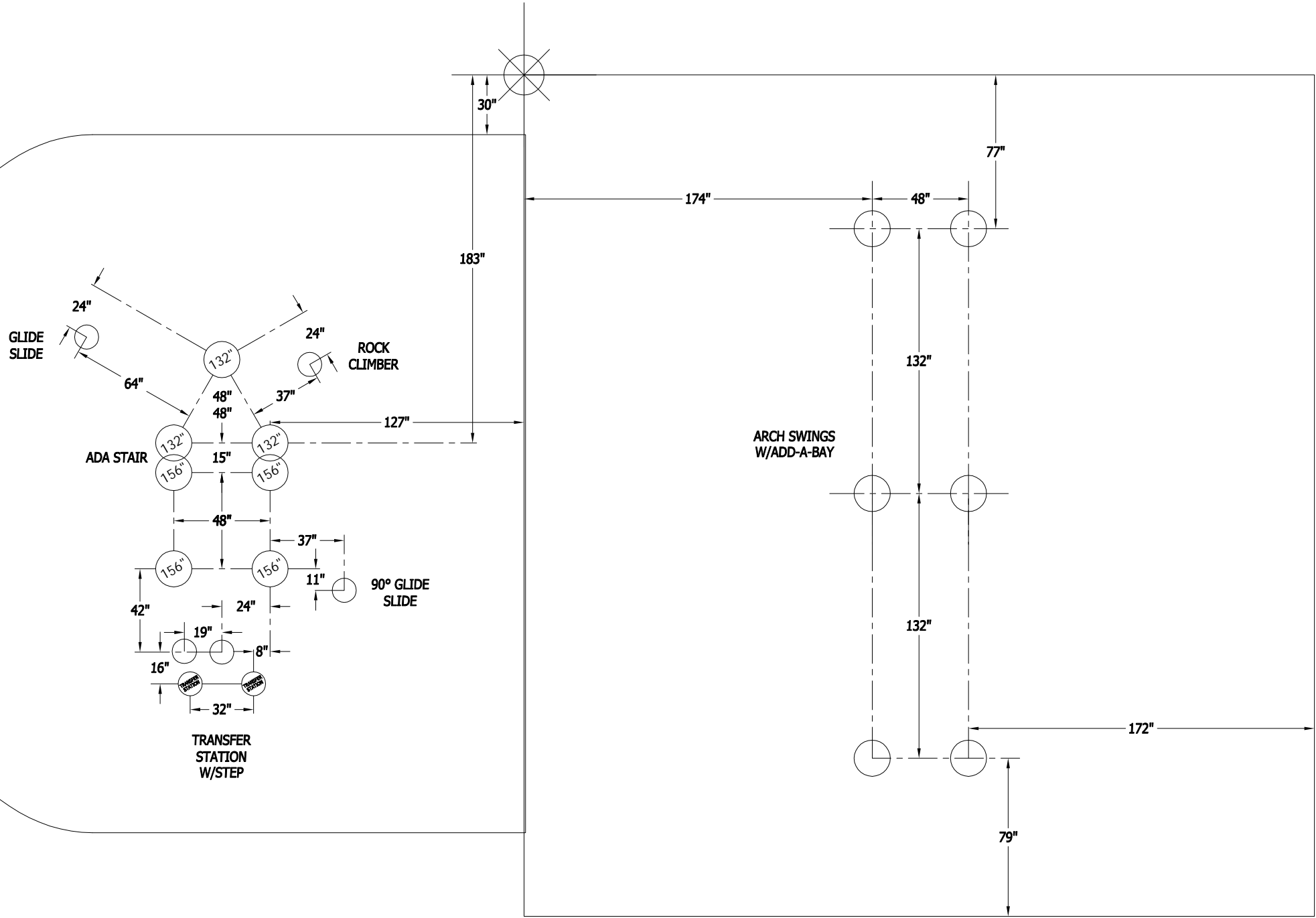


Lime





\*Playground Supervision Required



PROJECT NO: SS5-2.LEE	REV: -	DATE: 08-JAN-15
SYSTEM: PLAYMAKERS		SCALE: 3/16" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

LEE RECREATION  
809 Bluebird Pass  
Cambridge, WI 53523

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FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3659mm) INDICATES POST LENGTH)

# STEVEN STREET 5-2

FOOTINGS ONLY



## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

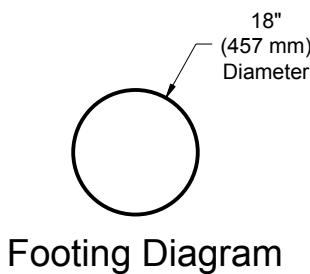
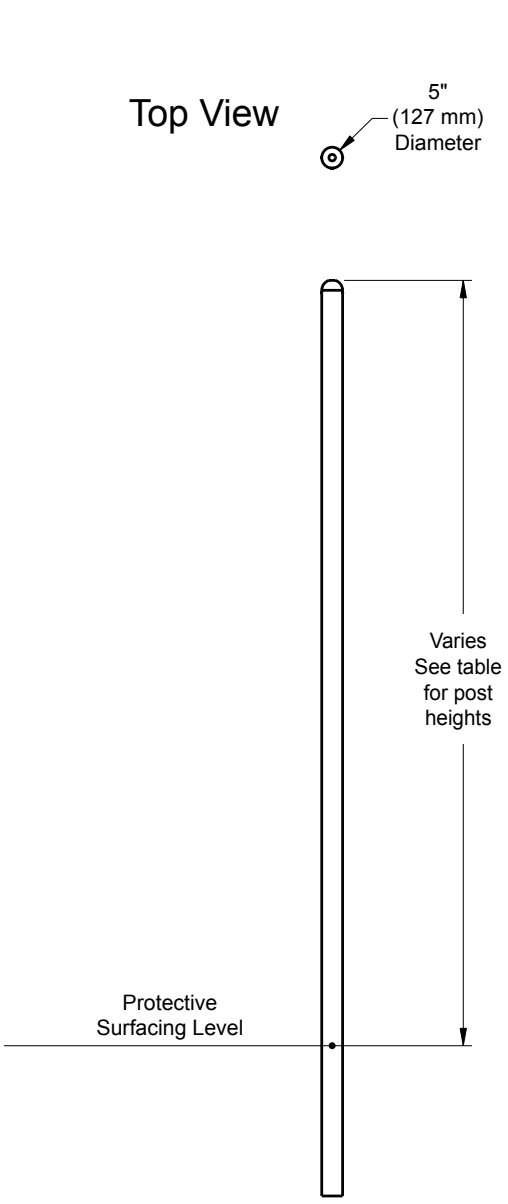


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A

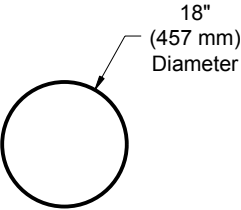
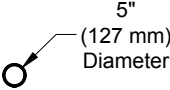
Aluminum Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

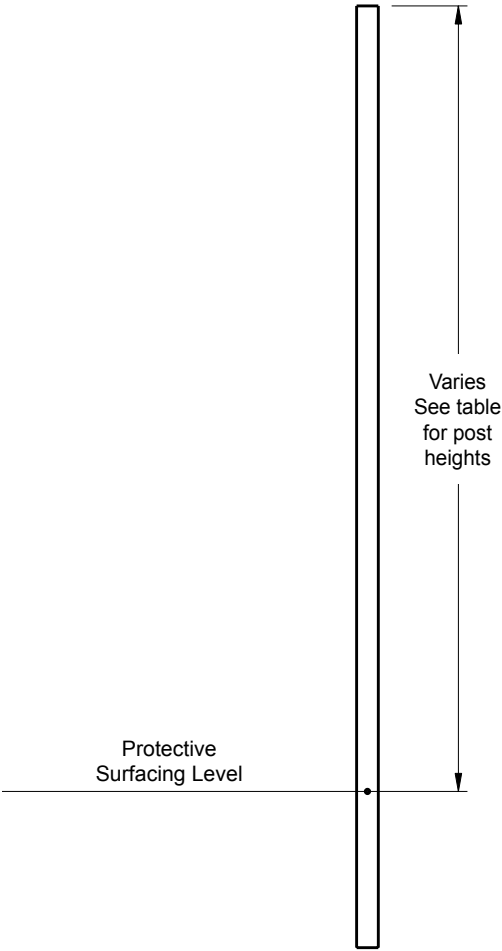
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 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

## PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1

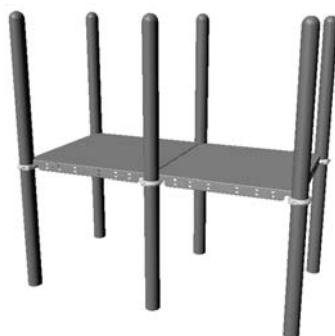


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## Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



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

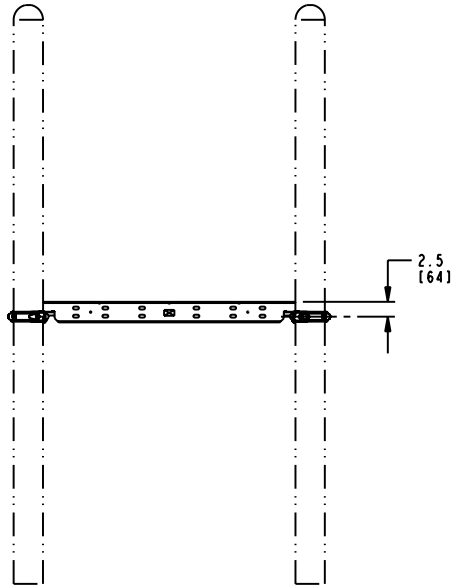
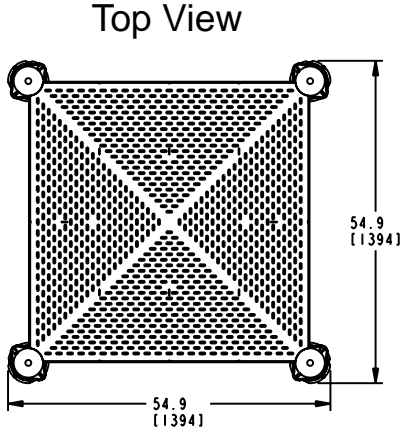
### ICON KEY

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

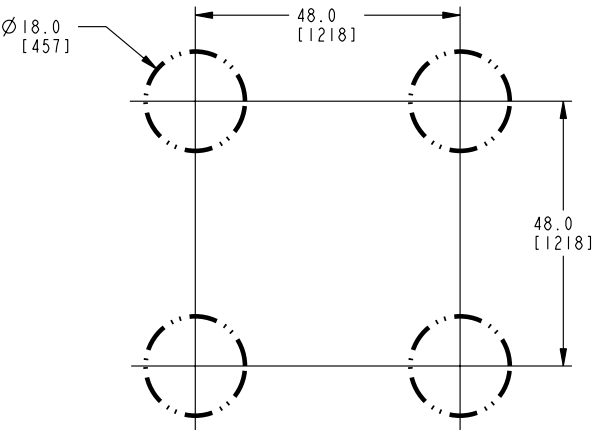


# Installation Instructions

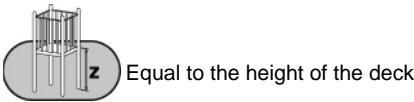
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0616

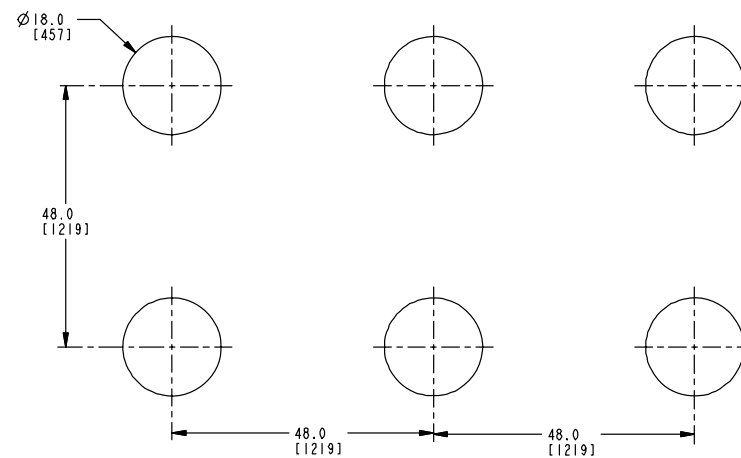
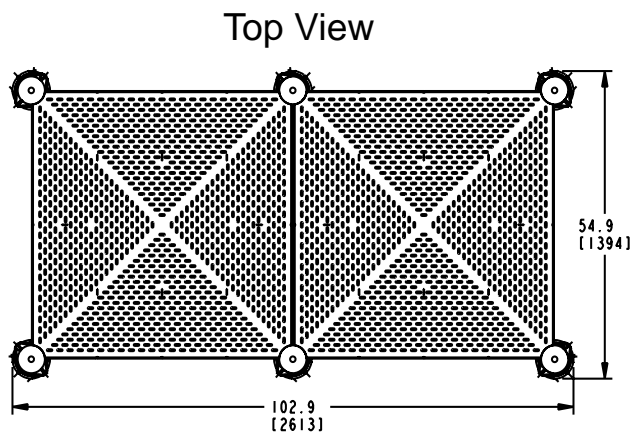


Footing Diagram

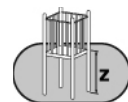
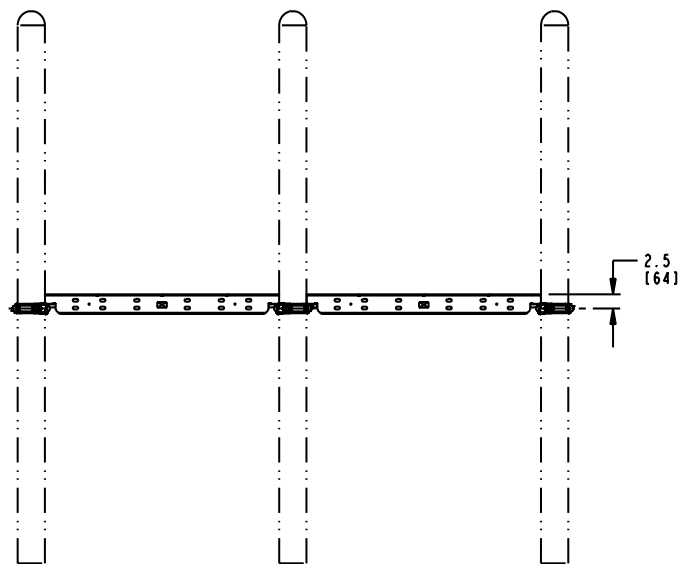


# Installation Instructions

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



Footing Diagram



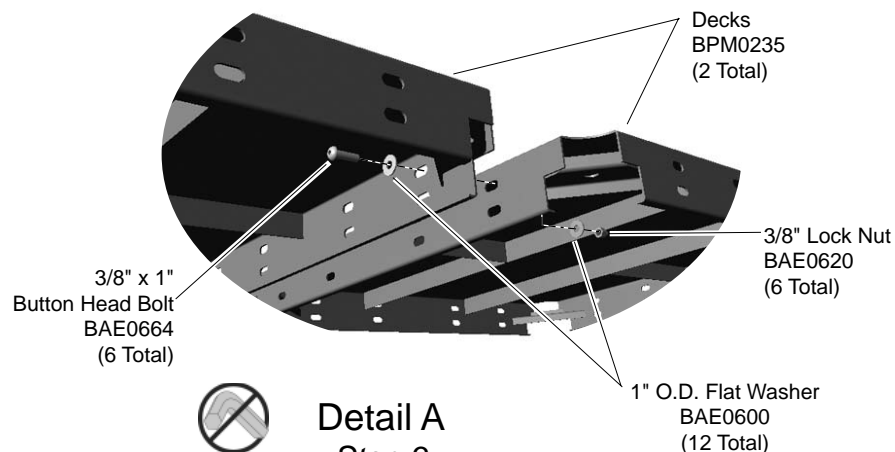
Equal to the height of the deck

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.

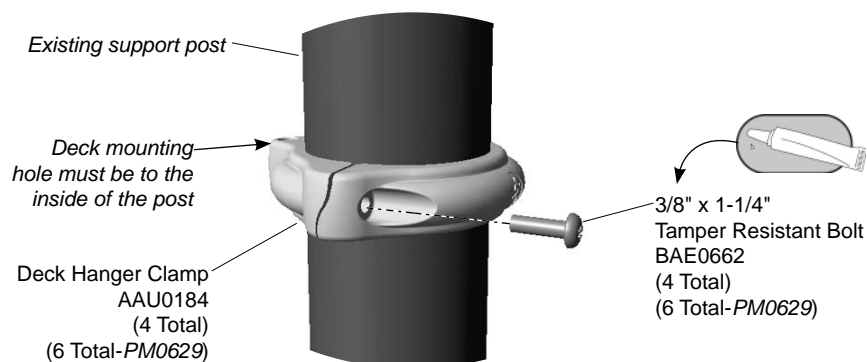


## Detail A

### Step 3

(Model PM0629 Only)

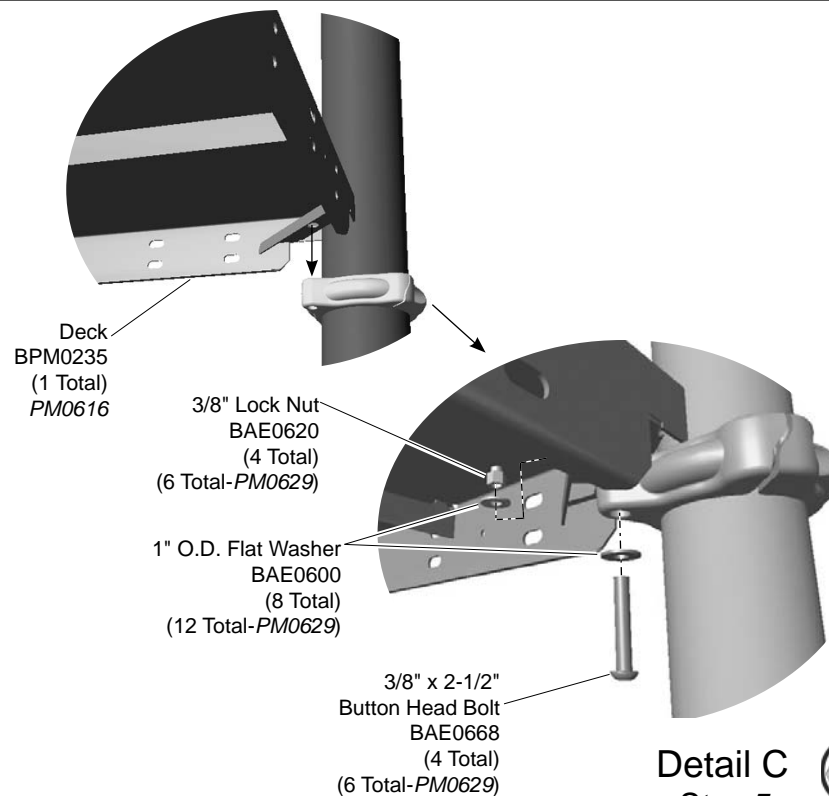
Attach the two decks together.



## Detail B

### Step 4

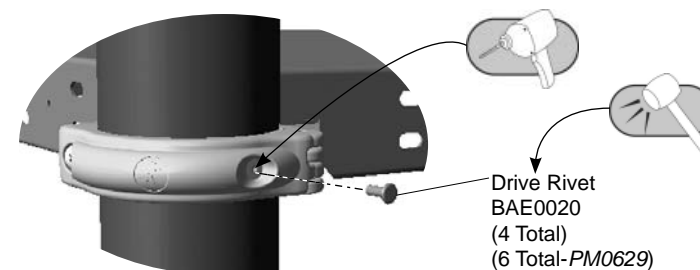
Attach the deck clamps to the support posts.



## Detail C

### Step 5

Attach the decks to the clamps.



## 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
BPM0235	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
BPM0235	PLATFORM - PM SQUARE PERF	2



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## Installation Instructions

Playmakers® PM0617, and PM0639  
Triangular and 45 Degree Tri-Deck  
Coated Perforated Decks



ZZPM0617  
Triangular Deck



ZZPM0639  
45 Degree Tri-Deck

Assembly View

### Installation Preparation

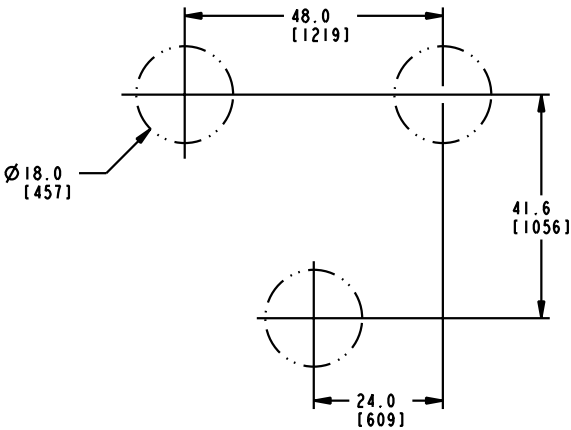
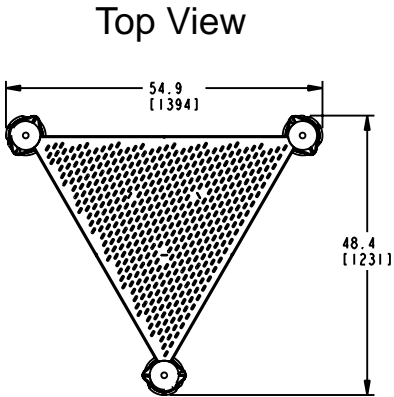
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Use Zone: ..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

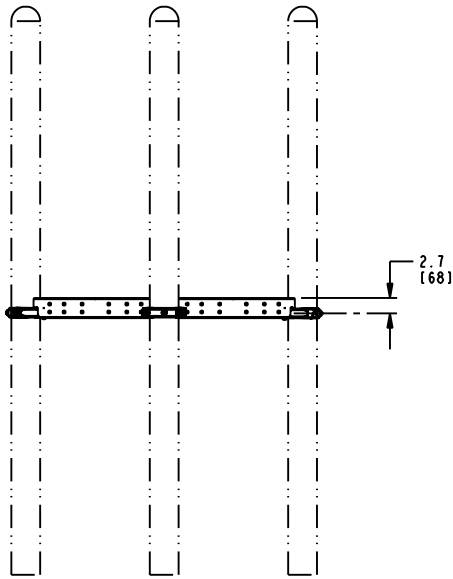
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

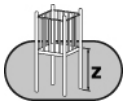
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View  
Model PM0617



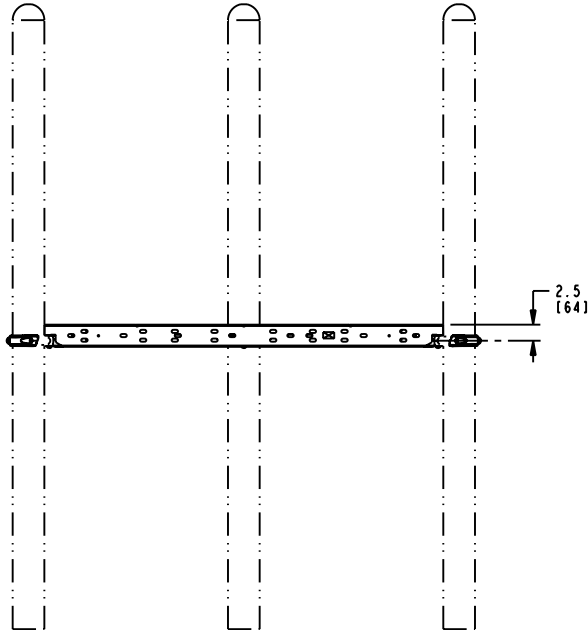
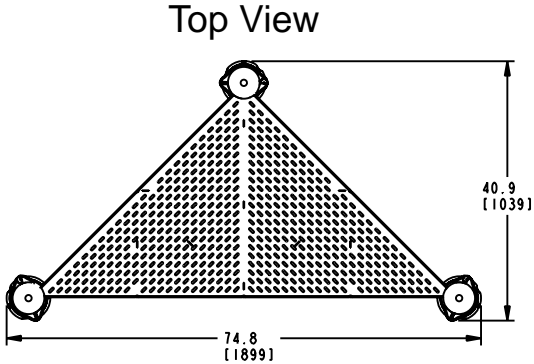
Equal to the height of the deck



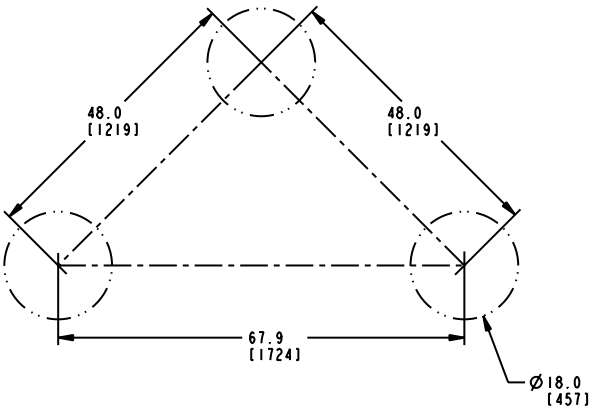


# Installation Instructions

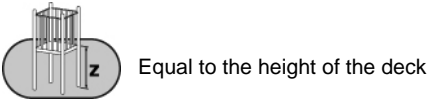
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0639

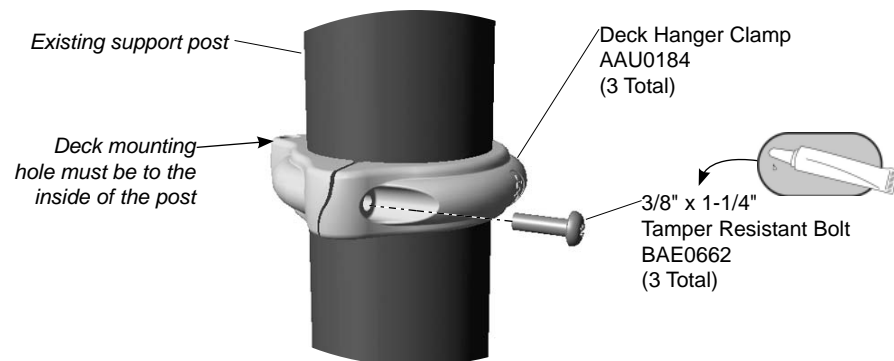


Footing Diagram



# Installation Instructions

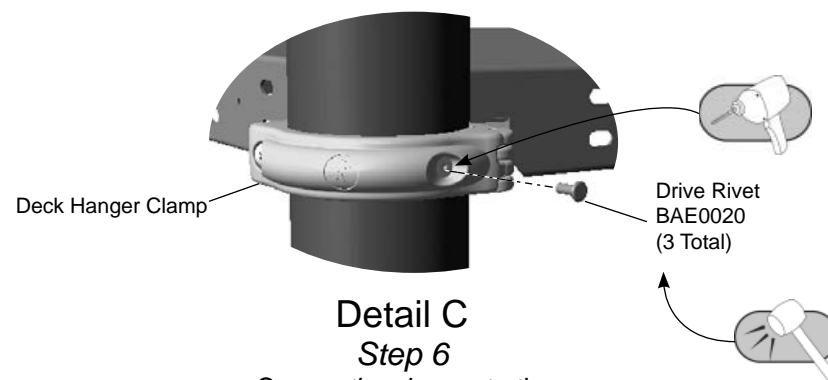
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



## Detail A

### Step 3

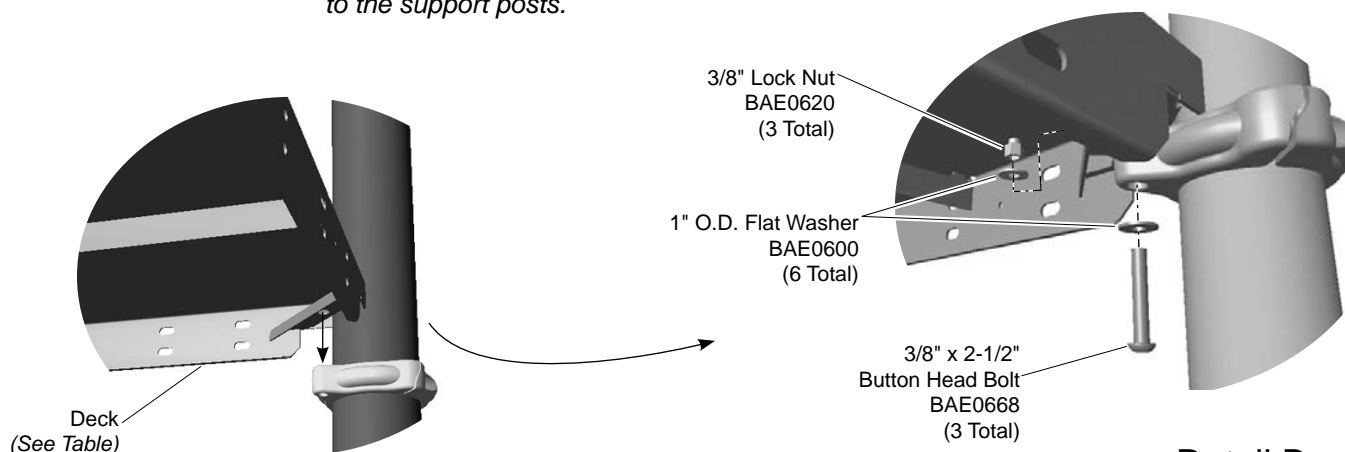
Attach the deck hanger clamps to the support posts.



## Detail C

### Step 6

Secure the clamps to the support posts.



## Detail B

### Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

# 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**. 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**. 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
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

## PM0639 - 45 DEGREE TRI-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
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

## Installation Instructions

Playmakers® Models PM2008 and PM2008S  
36 in. (914 mm) Transfer Station w/Barriers  
In-Ground and Surface Mount

### Installation Preparation

Recommended Crew: ..... Two (2) adults  
Installation Time (In-Ground): ..... 3 man-hours  
Installation Time (Surface Mount): ..... 1.5 man-hours  
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

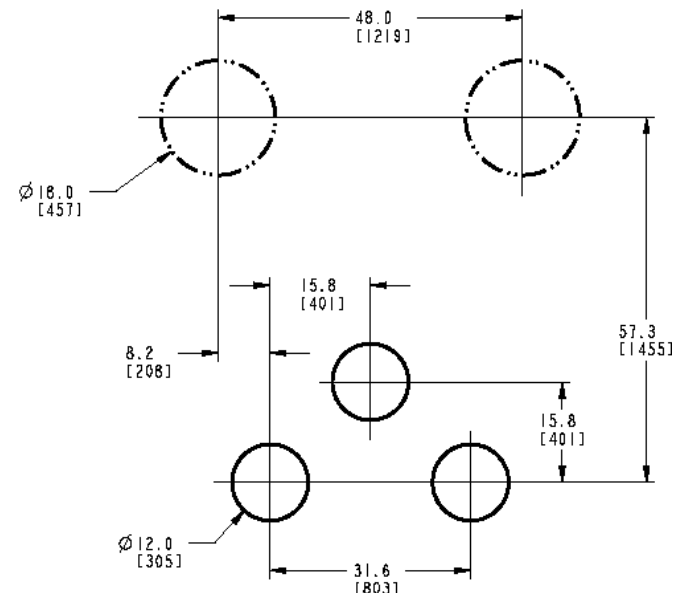
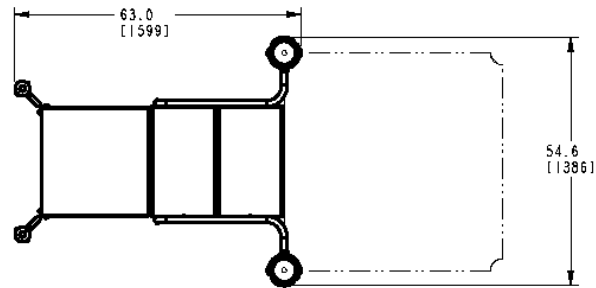
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

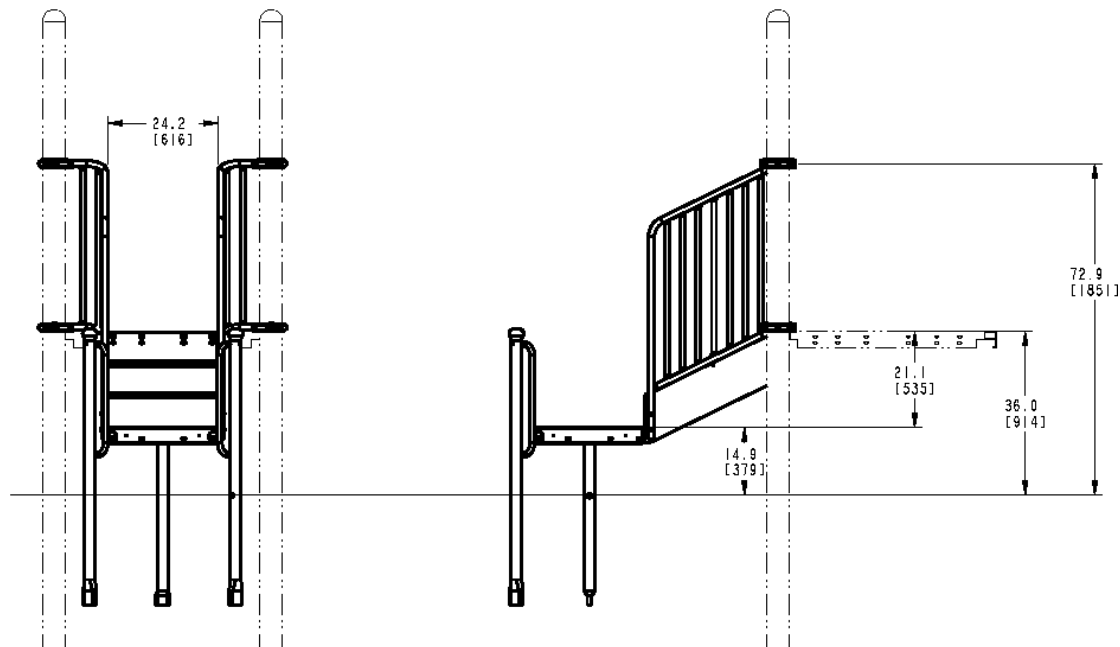
## KEY

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Top #	Inches
Bottom #	[Millimeters]

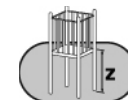
Top View



Footing Diagram



Elevation View  
PM2008



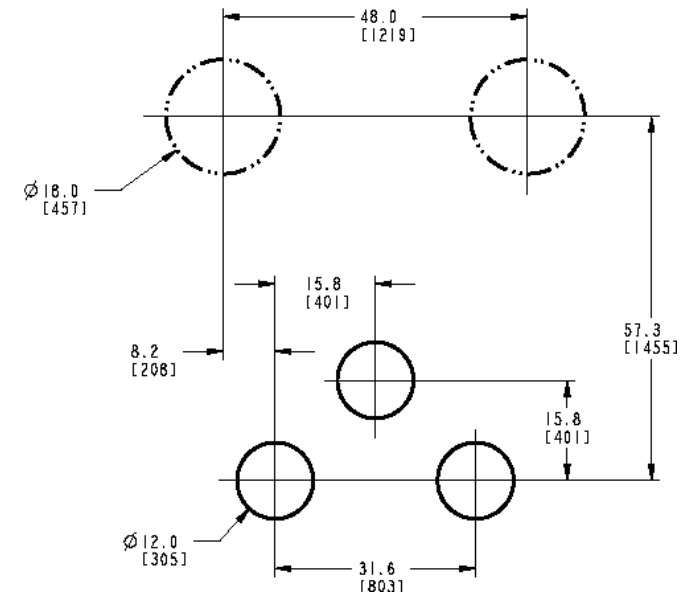
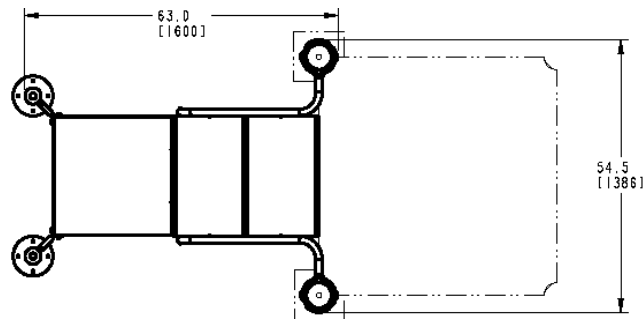
27" (685 mm)

# Installation Instructions

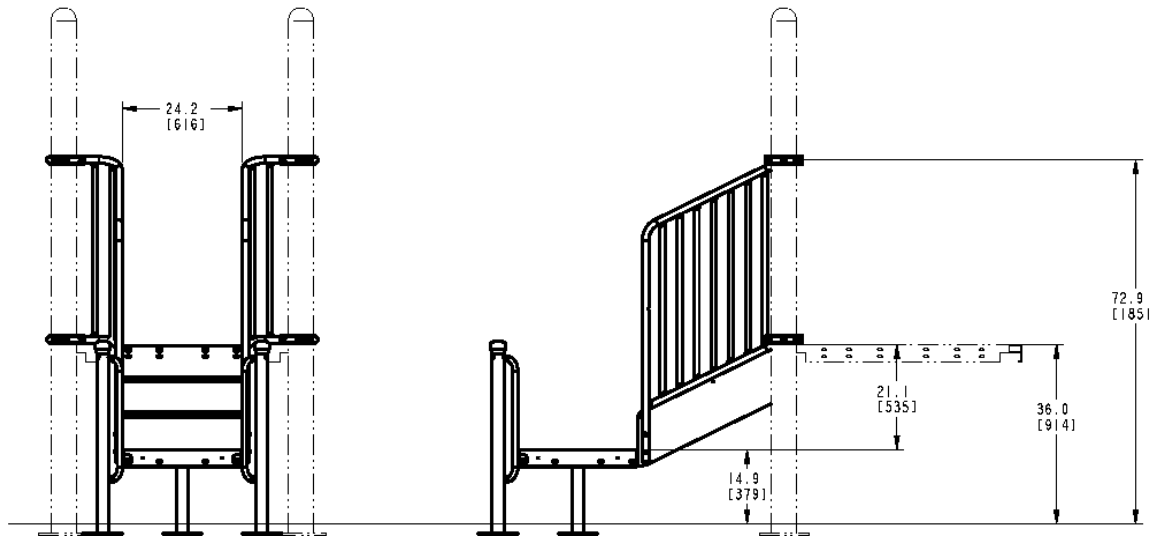
## KEY

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

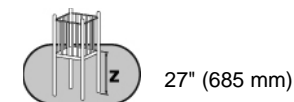
Top View



Footing Diagram



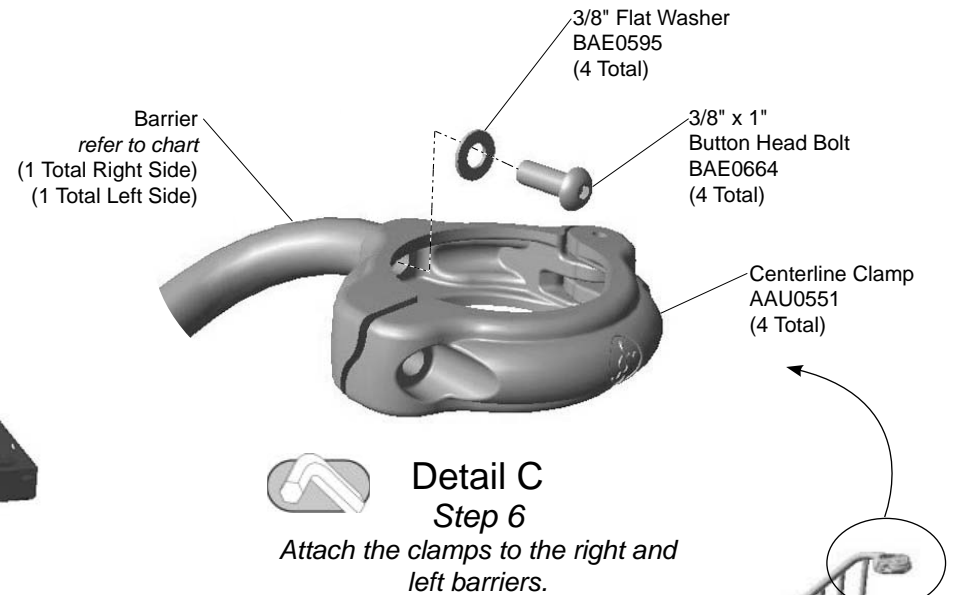
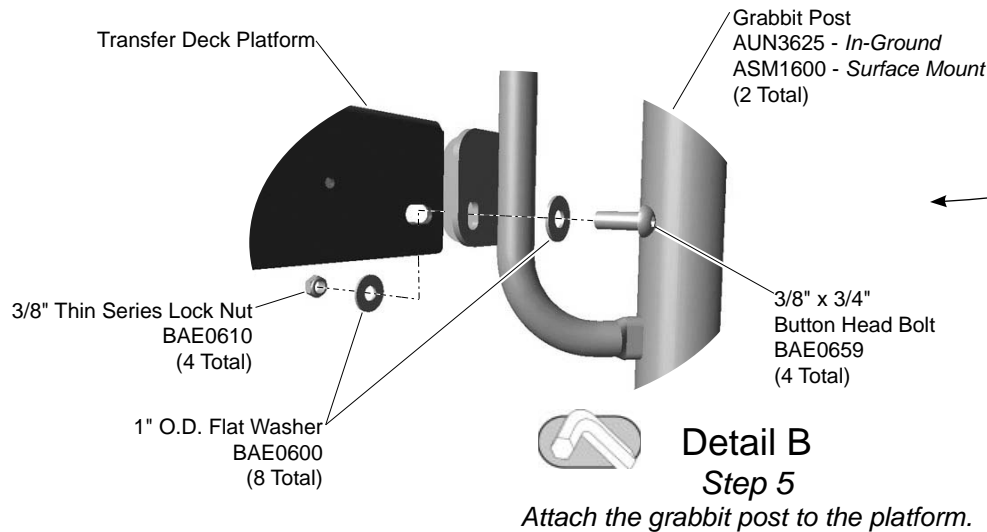
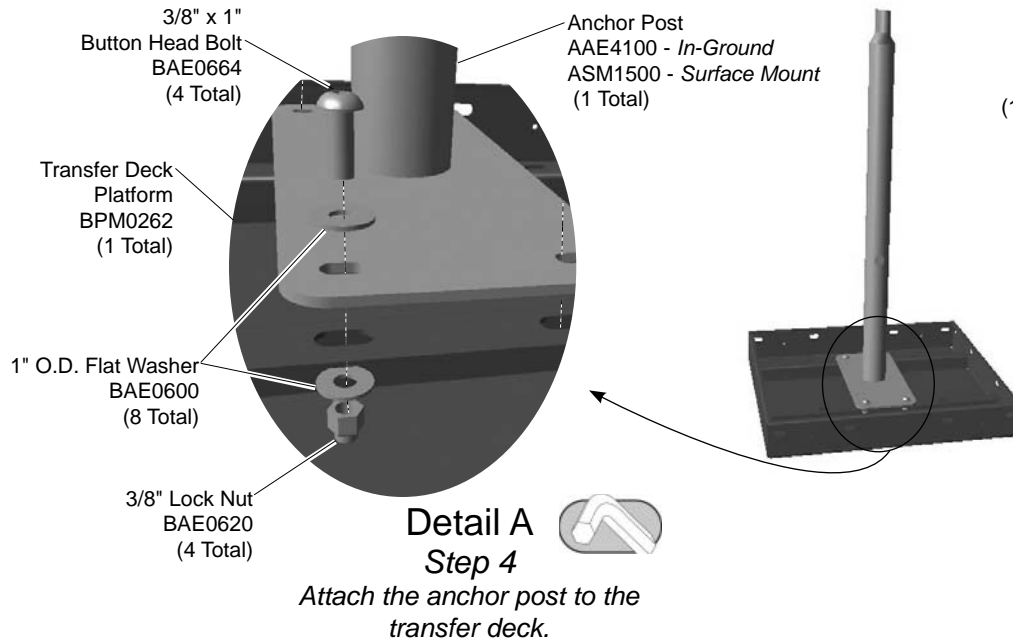
Elevation View  
PM2008S





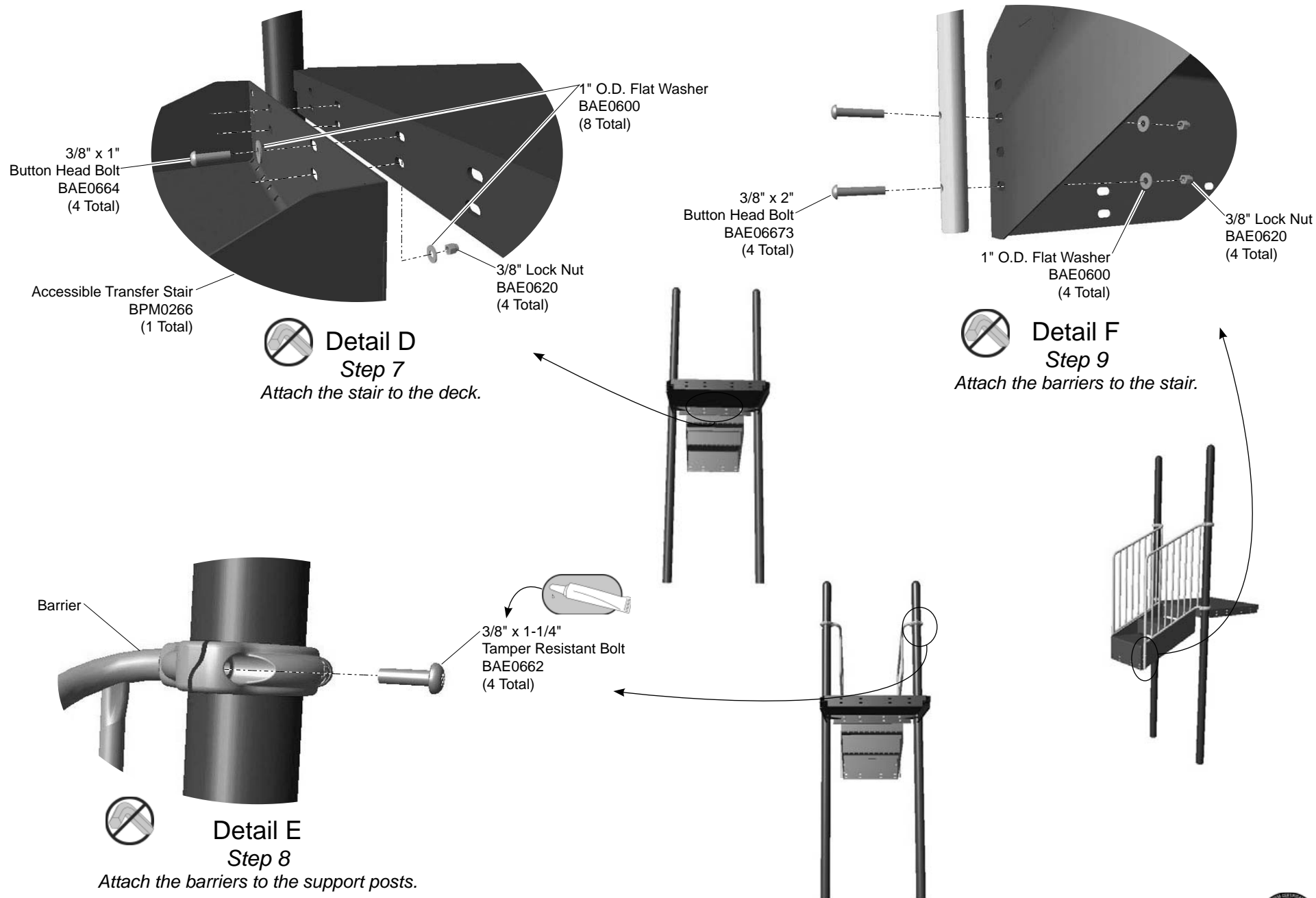
# Installation Instructions

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

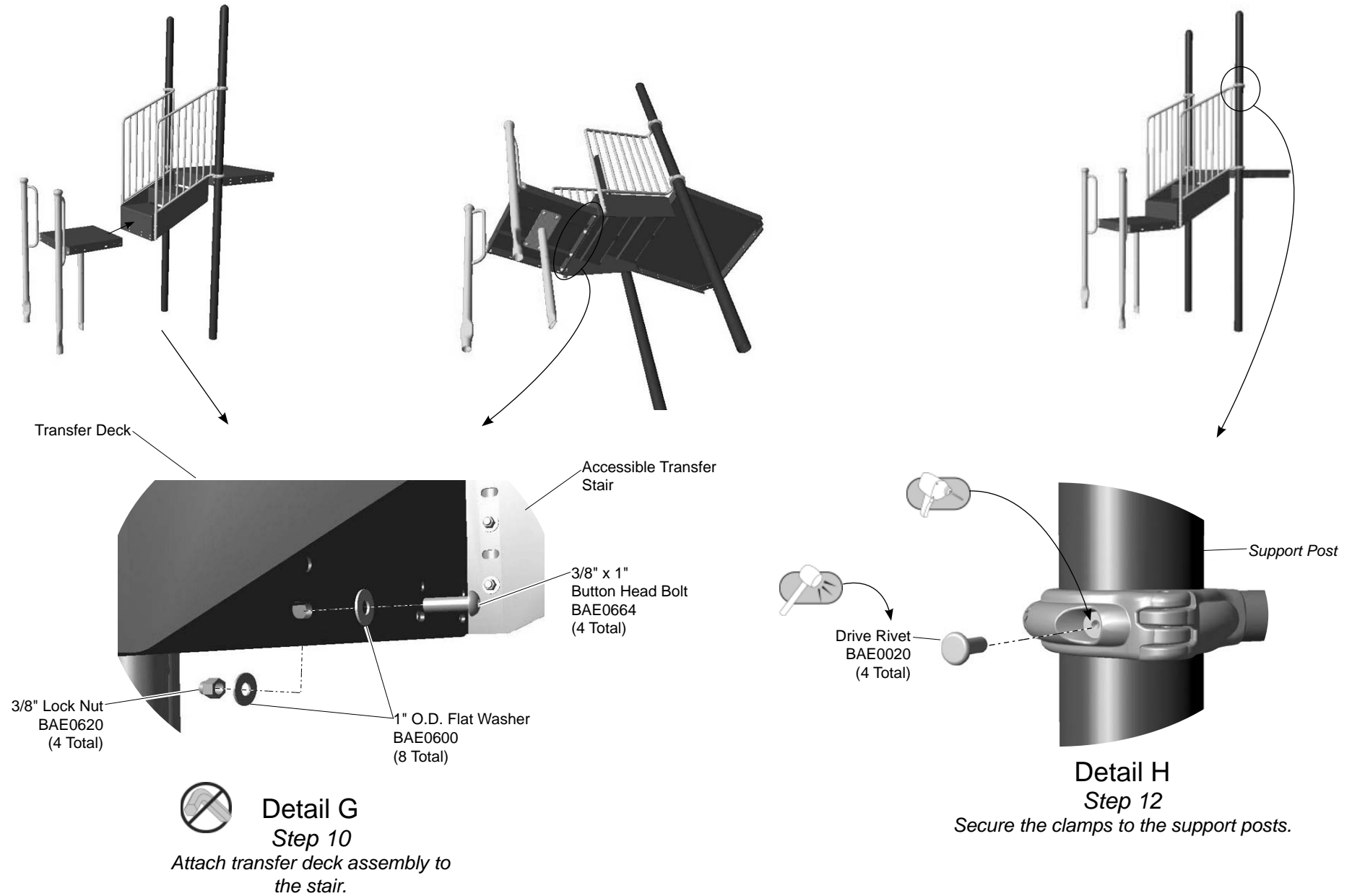


Part Number	Side	Barrier Part Number
ZZPM2008	Left	AEN0358
ZZPM2008	Right	AEN0357
ZZPM2008S	Left	AEN0358
ZZPM2008S	Right	AEN0357

# 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 *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

**Attach the anchor post to the transfer deck.**

**Step 4:** Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post 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**. 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 barriers.**

**Step 6:** Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and 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**. 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 barriers to the support posts.**

**Step 8:** Attach barriers to the support posts. See **Detail E** and **Elevation View**. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

**Attach barriers to the stair.**

The barriers 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 barriers should be mounted at the same height.

**Step 9:** Attach the barriers to the stair. See **Detail F**. Align the barrier 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 **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

**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.

# Installation Instructions

---

**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.

## ZZPM2008 - 36 in. (914 mm) TRANSFER STATION w/ BARRIERS

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0357	BARRIER - 29-3/16" x 8-1/4" x 61-7/32" (RIGHT)	1
AEN0358	BARRIER - 29-3/16" x 8-1/4" 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	4
BAE0595	WASHER - 3/8" SAE FLAT	4
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" TPR RESISTANT w/TORX DRV	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0266	STAIR - 21" ACCESSIBLE TRANSFER	1

## ZZPM2008S - 36 in. (914 mm) TRANSFER STATION w/ BARRIERS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0357	BARRIER - 29-3/16" x 8-1/4" x 61-7/32" (RIGHT)	1
AEN0358	BARRIER - 29-3/16" x 8-1/4" 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	4
BAE0595	WASHER - 3/8" SAE FLAT	4
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" TPR RESISTANT w/TORX DRV	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0266	STAIR - 21" ACCESSIBLE TRANSFER	1



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Assembly View

## Installation Instructions







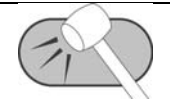
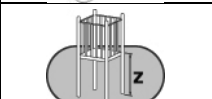
### Universal Model UN2019

### Platform Approach Step

#### Installation Preparation

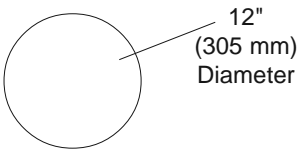
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1 man-hour  
 Weight: ..... 40.4 lbs. (18,2 kg)  
 Concrete Required: ..... 0.03 cubic yard (0,02 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

#### ICON KEY

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

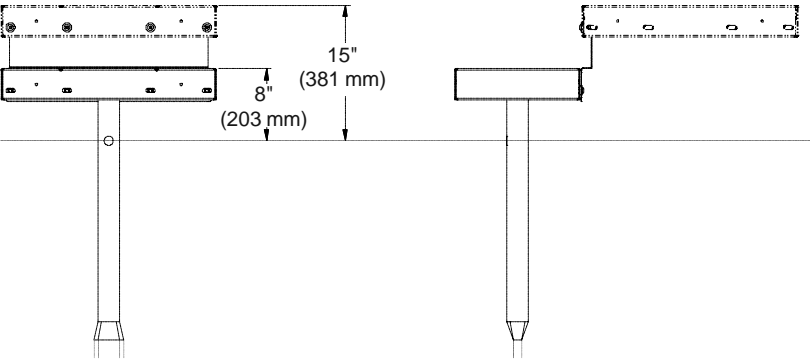
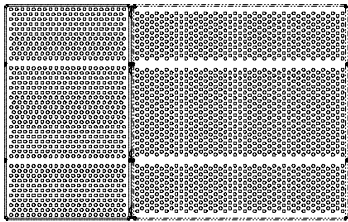


# Installation Instructions

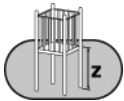


Footing Diagram

Top View



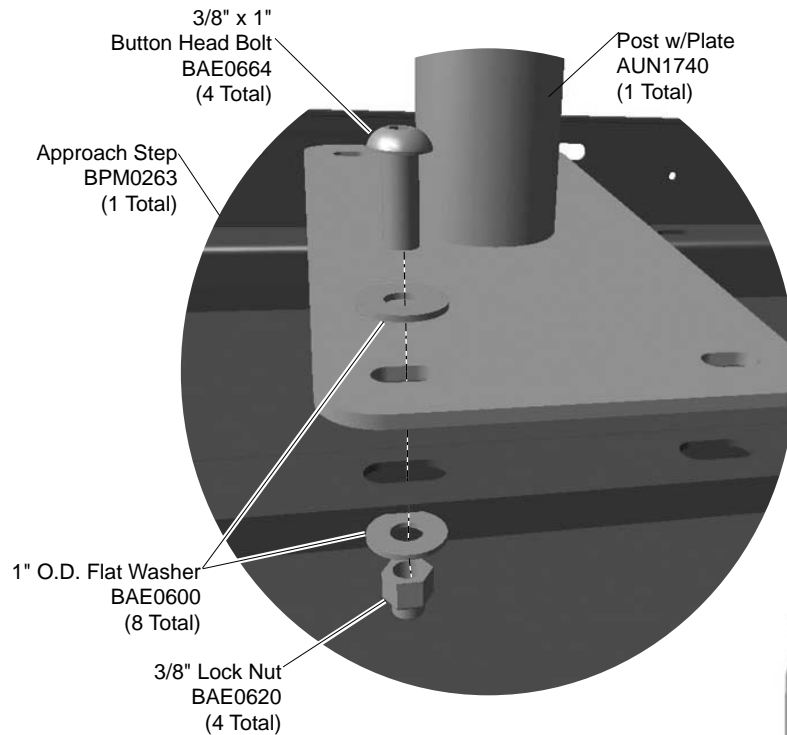
Elevation Views



15" (381 mm)

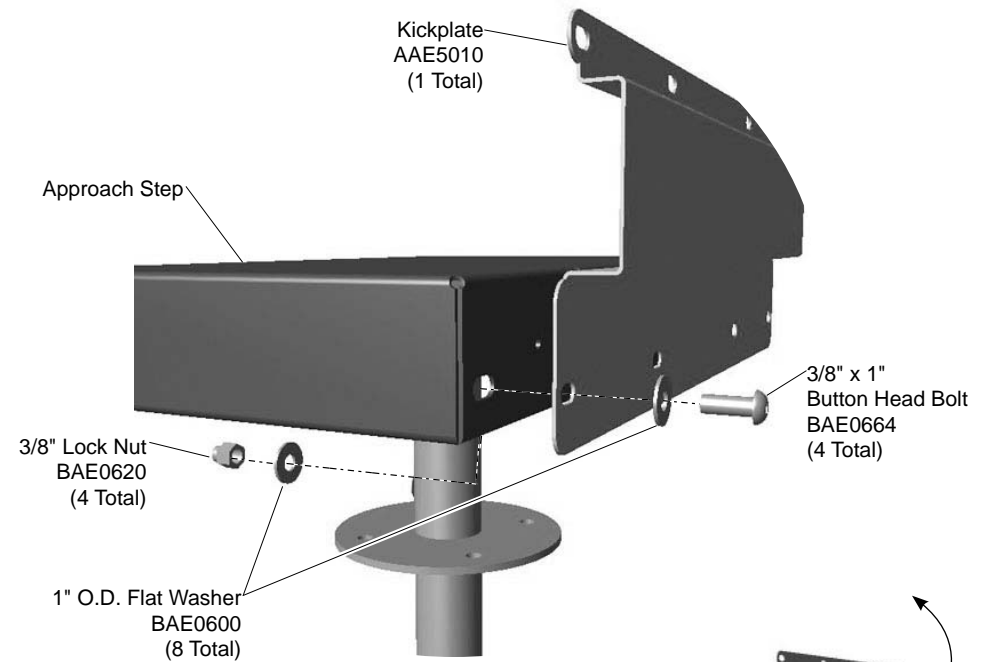
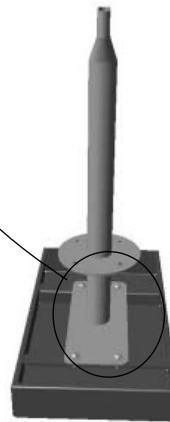
# Installation Instructions

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



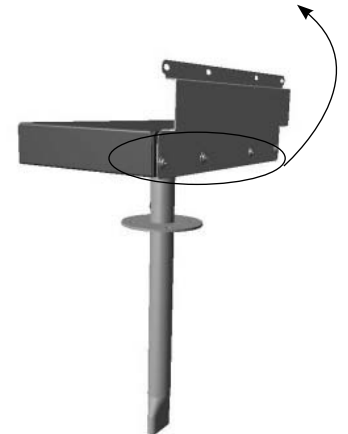
## Detail A Step 4

Attach the anchor post to the approach step.

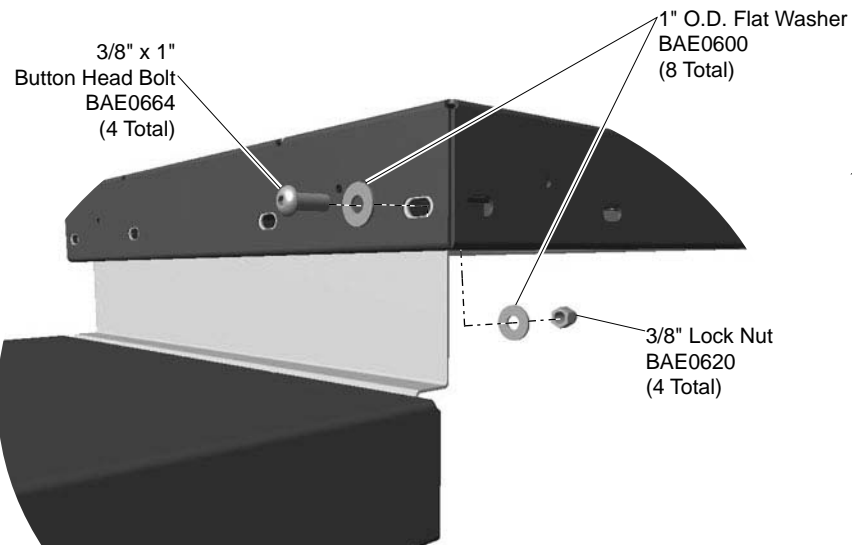
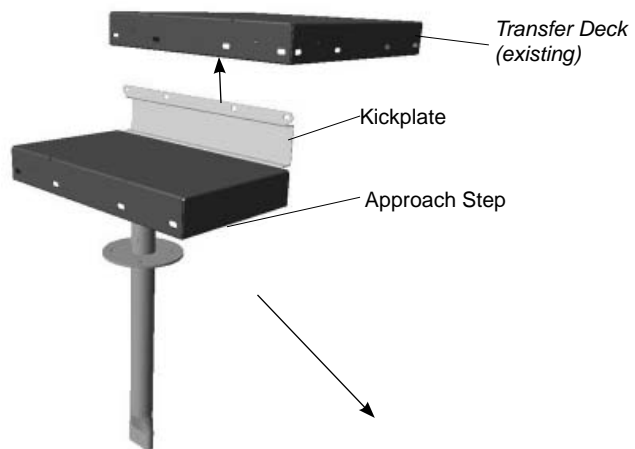


## Detail B Step 5

Attach the kickplate to the approach step.



# Installation Instructions



## Detail C Step 6

Attach the kickplate to the  
transfer deck.



## Step 7



# 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**. 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**. 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**. 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
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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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 Instructions

### Playmakers®

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

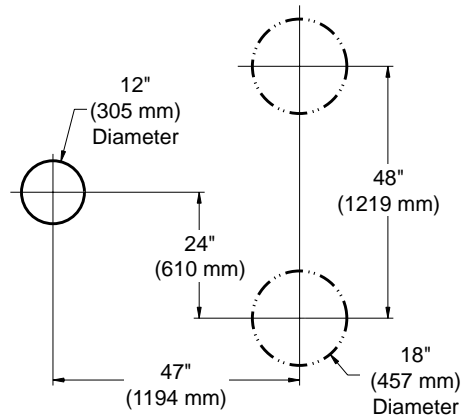
### Installation Preparation

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

### ICON KEY

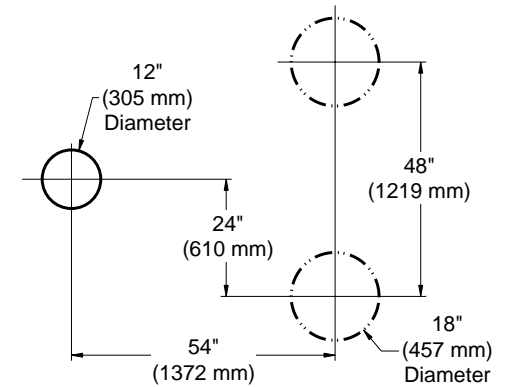
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

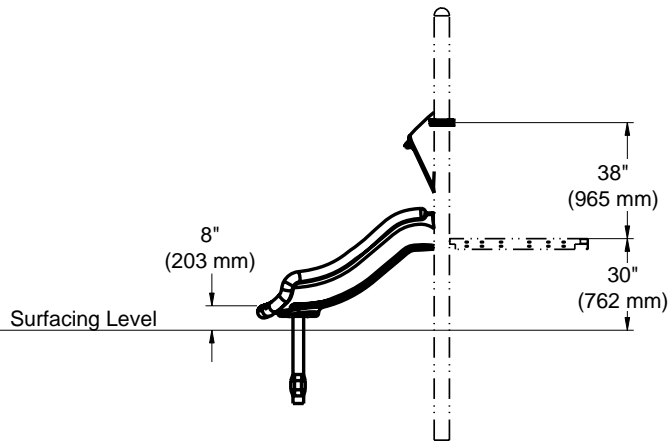
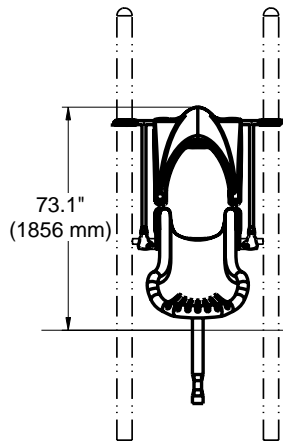


**Footing Diagram**

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

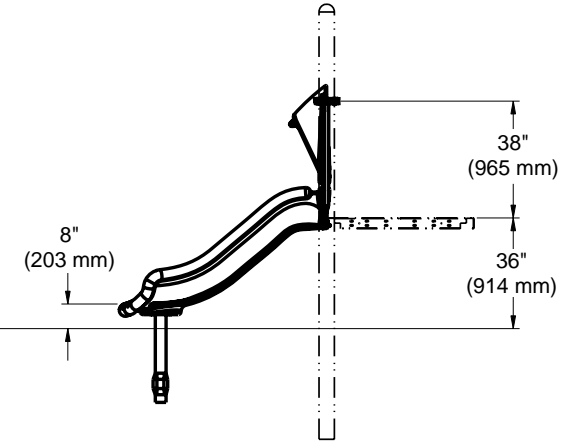
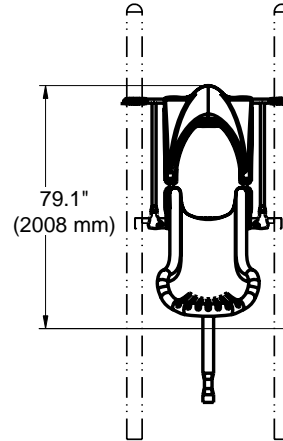


**Footing Diagram**



**Elevation View PM3128 - 30" Glide Slide**

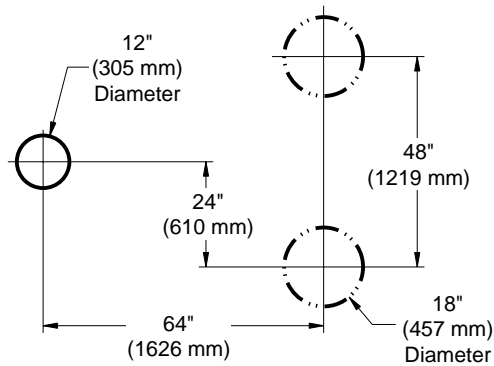
*(24" slide: exit will be 2" (50mm) above the surfacing level)*



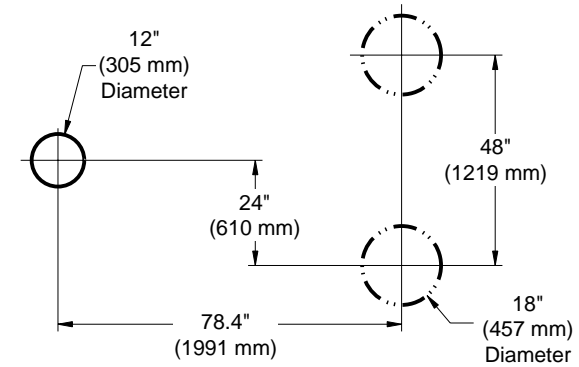
**Elevation View PM3127 - 36" Glide Slide**



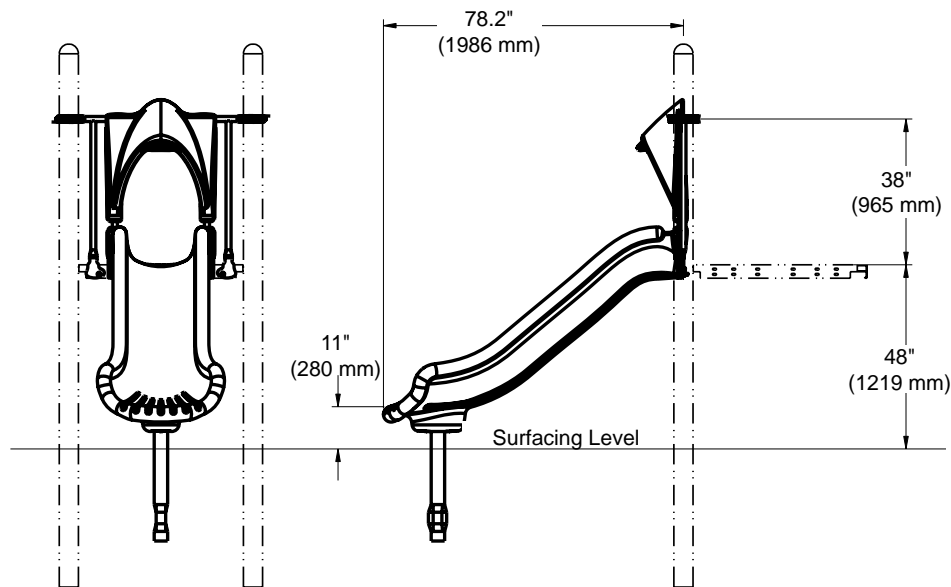
# Installation Instructions



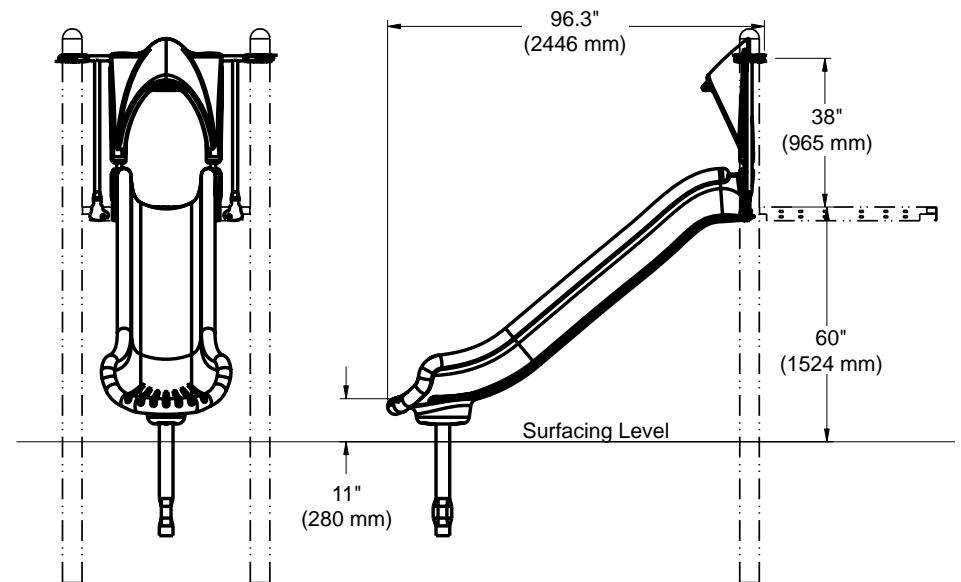
Footing Diagram



Footing Diagram

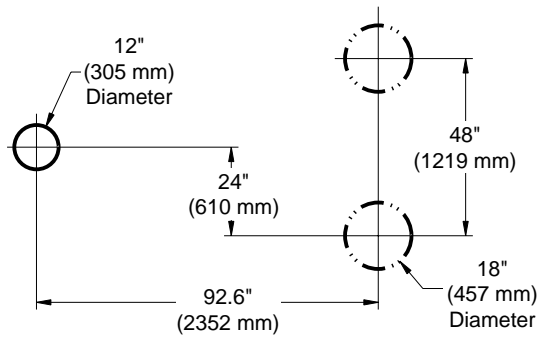


Elevation View PM3126 - 48" Glide Slide

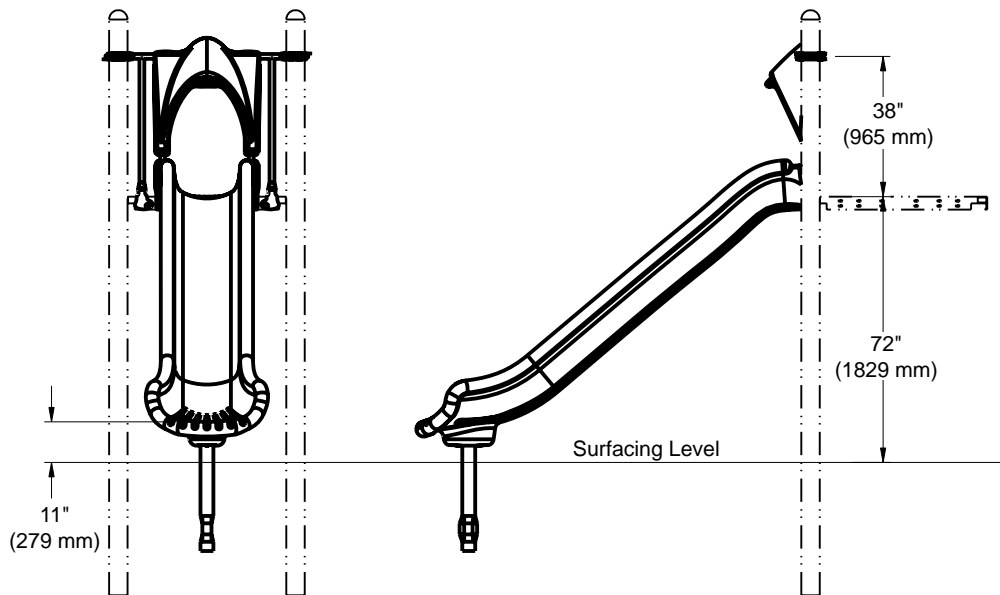


Elevation View PM2658 - 60" Glide Slide

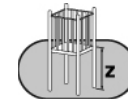
# Installation Instructions



Footings Diagram



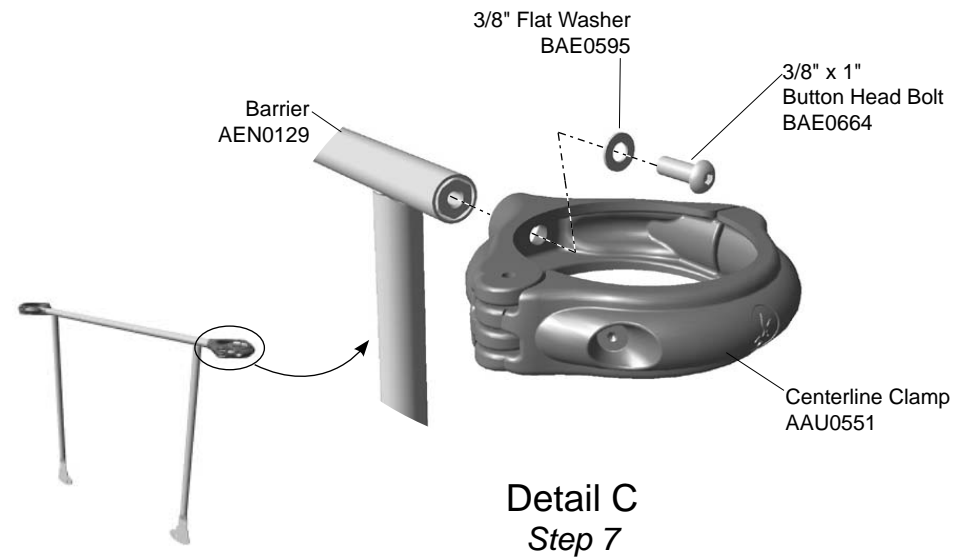
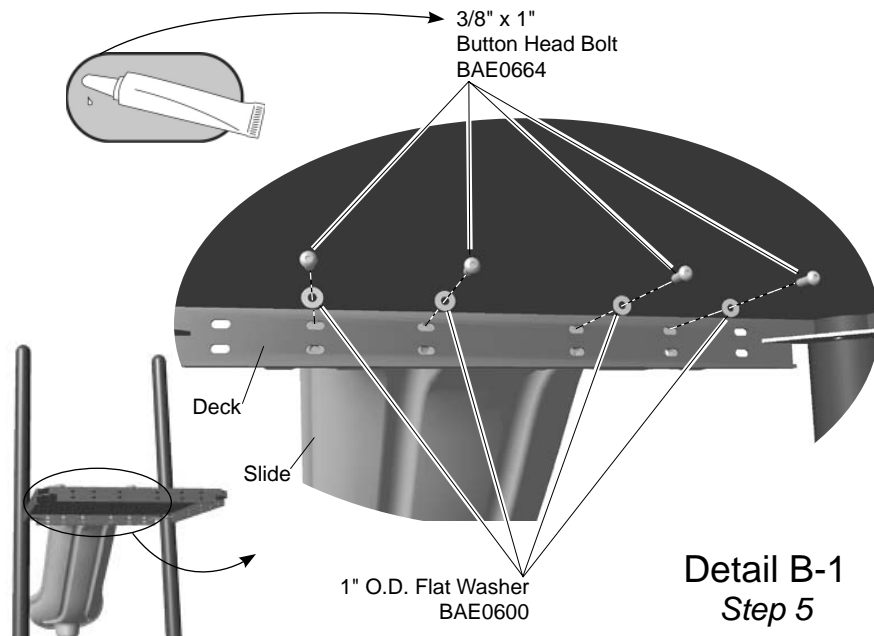
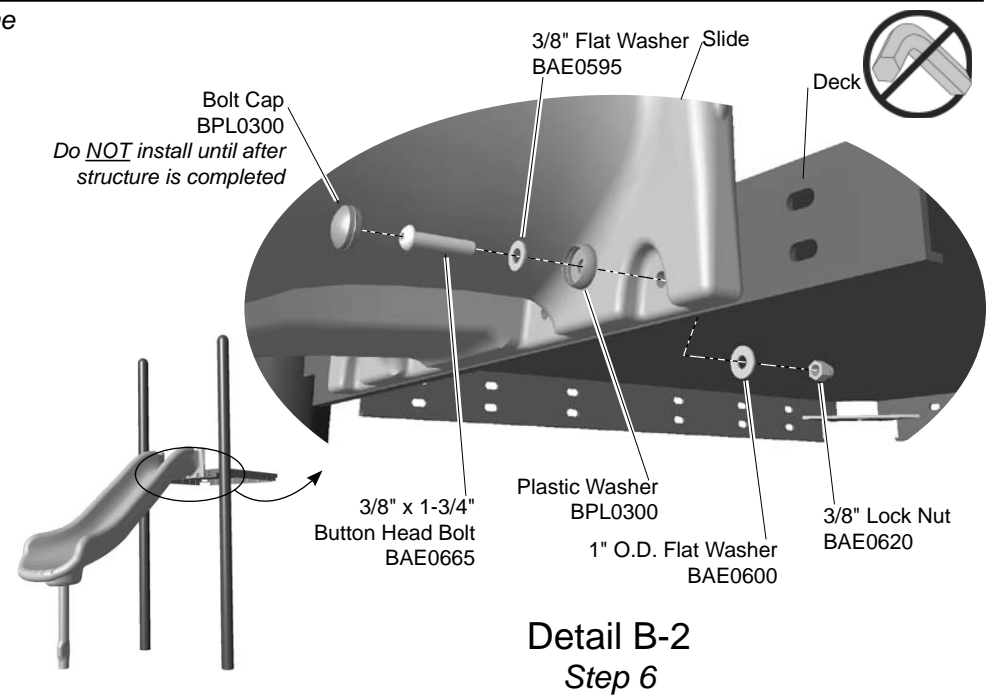
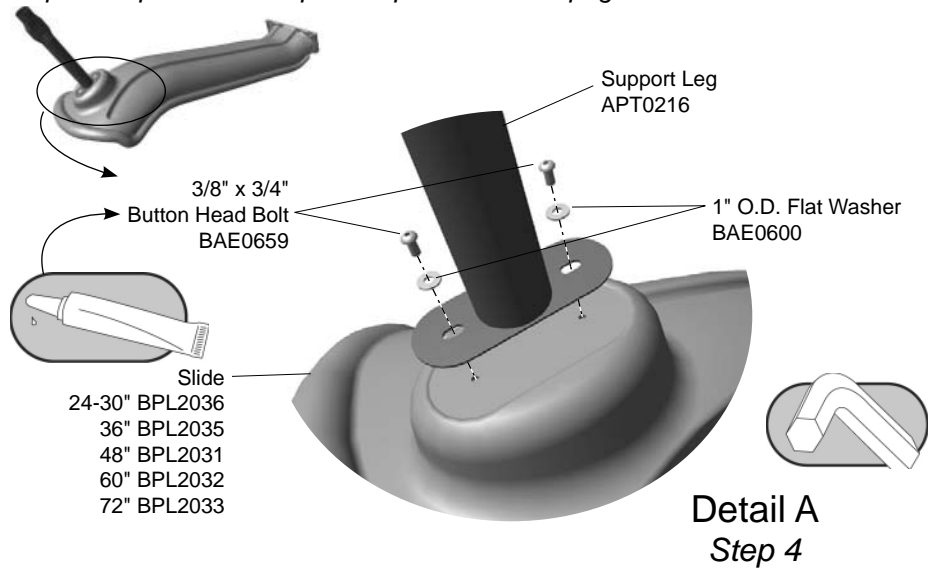
Elevation View PM2696 - 72" Glide Slide



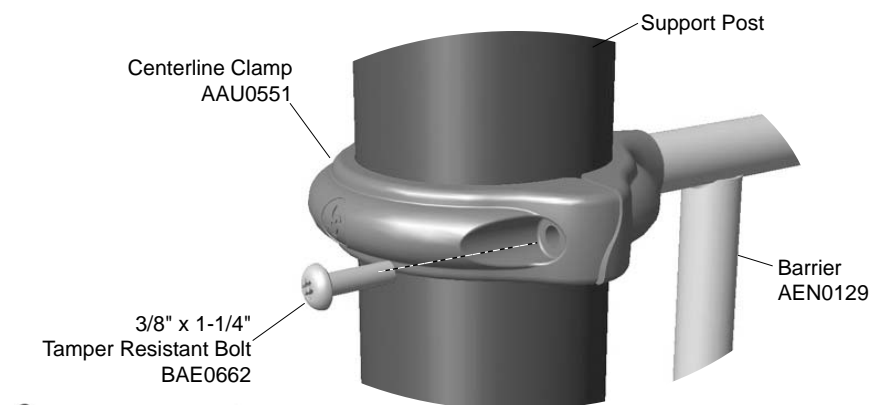
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

# Installation Instructions

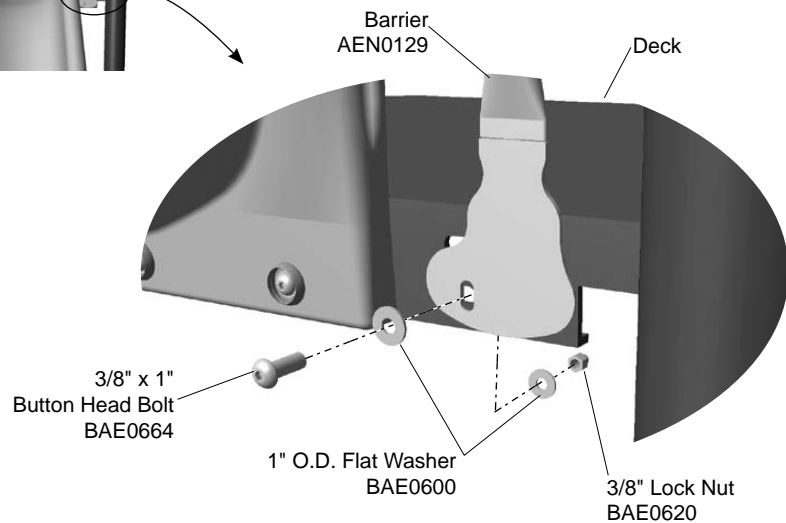
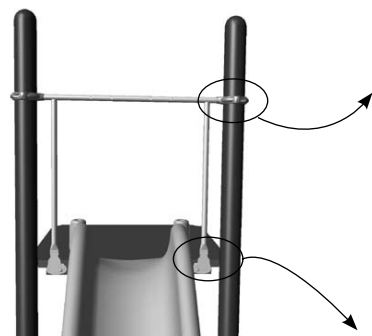
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



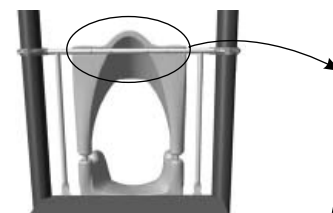
# Installation Instructions



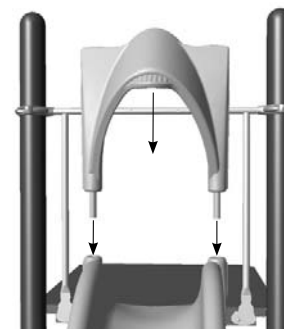
**Detail D-1**  
*Step 8*



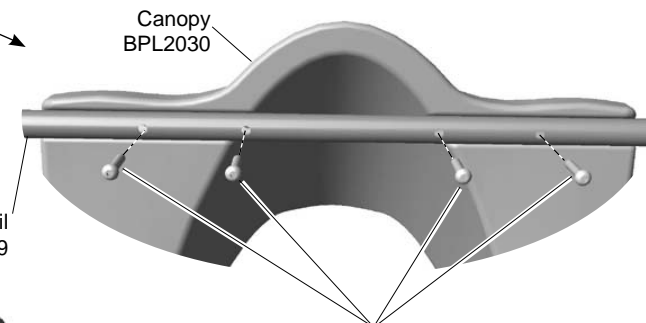
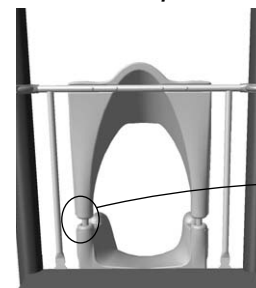
**Detail D-2**  
*Step 9*



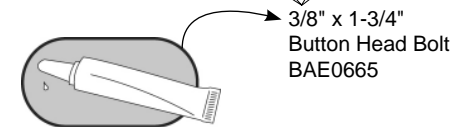
Barrier Top Rail AEN1029



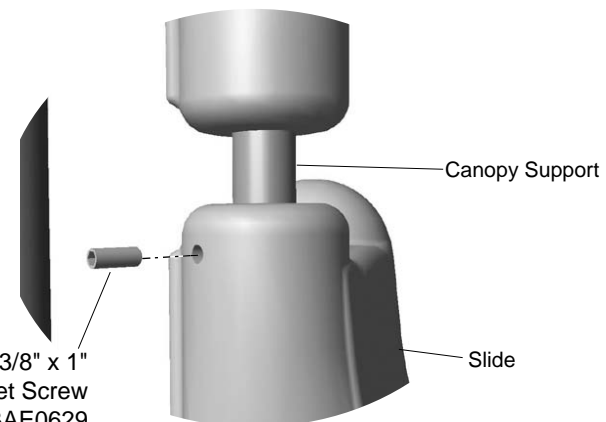
**Detail E-1**  
*Step 10*



Canopy BPL2030



**Detail E-2**  
*Step 10*

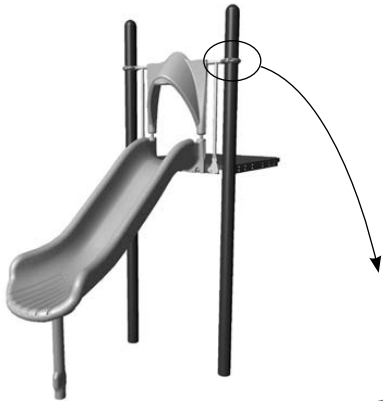


**Detail F**  
*Step 11*

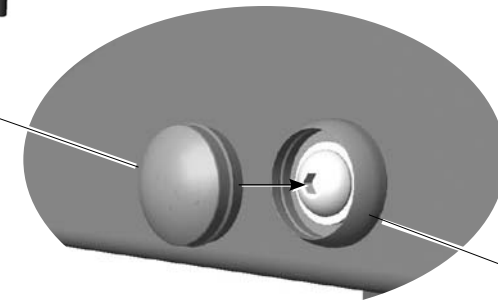
# Installation Instructions



Step 12

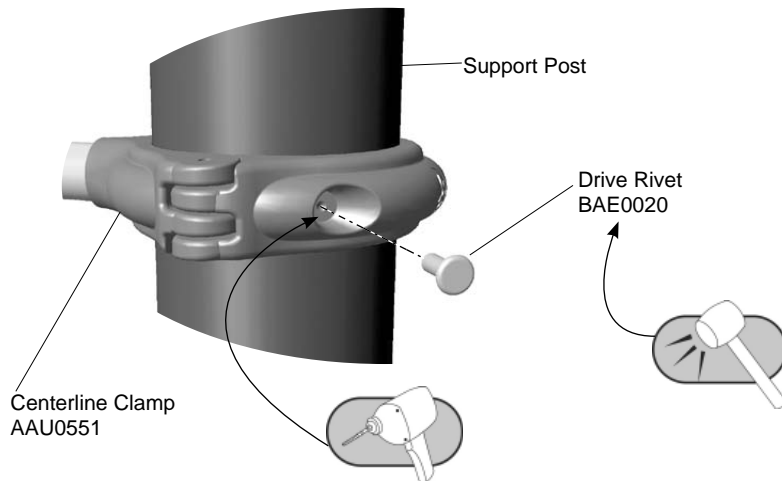


Bolt Cap  
BPL0300



Plastic Washer  
BPL0300

Detail H  
Step 14  
(refer to Detail B-2 also)



Centerline Clamp  
AAU0551

Drive Rivet  
BAE0020

Detail G  
Step 13

# 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 bedway 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.



## 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

## 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

## 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

## 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

## 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® Model PM3129

### 90° Glide Slide

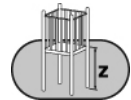
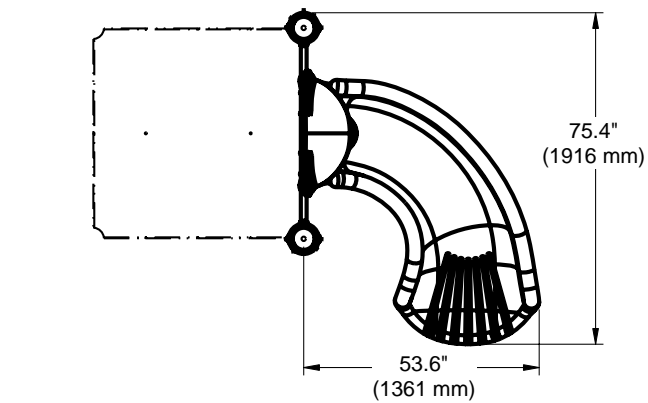
#### Installation Preparation

Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1.5 man-hours  
 Weight: ..... 108.4 lbs (49,3 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

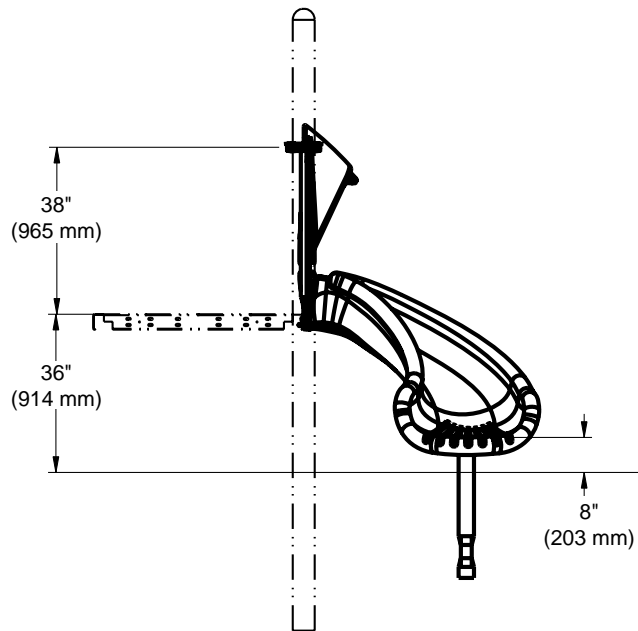
#### ICON KEY

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

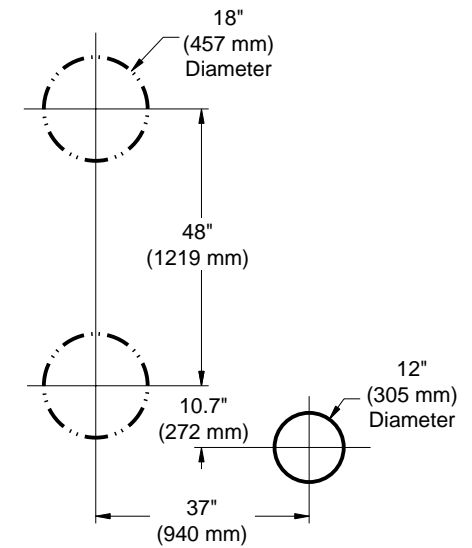
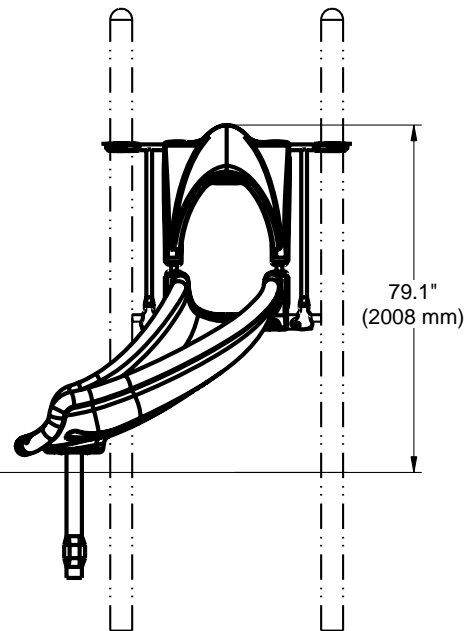
# Installation Instructions



36" (914 mm)



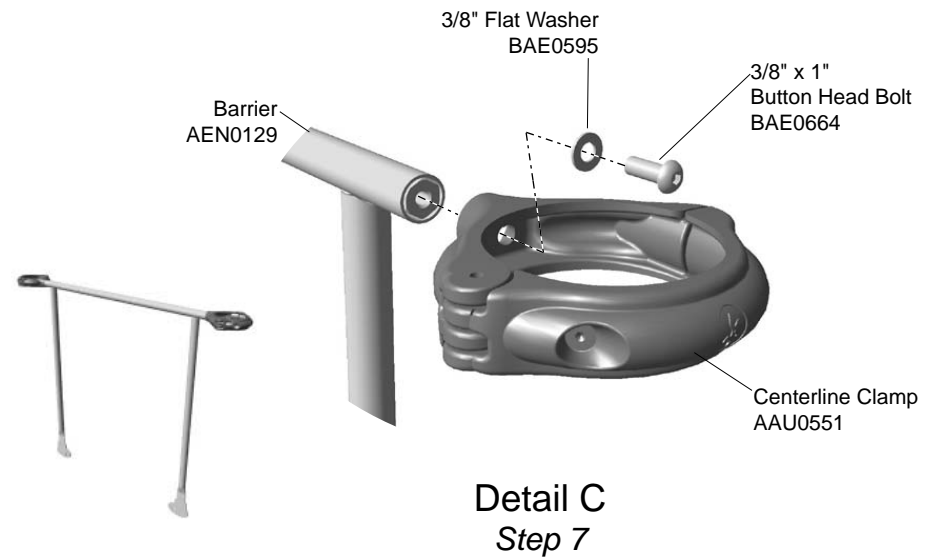
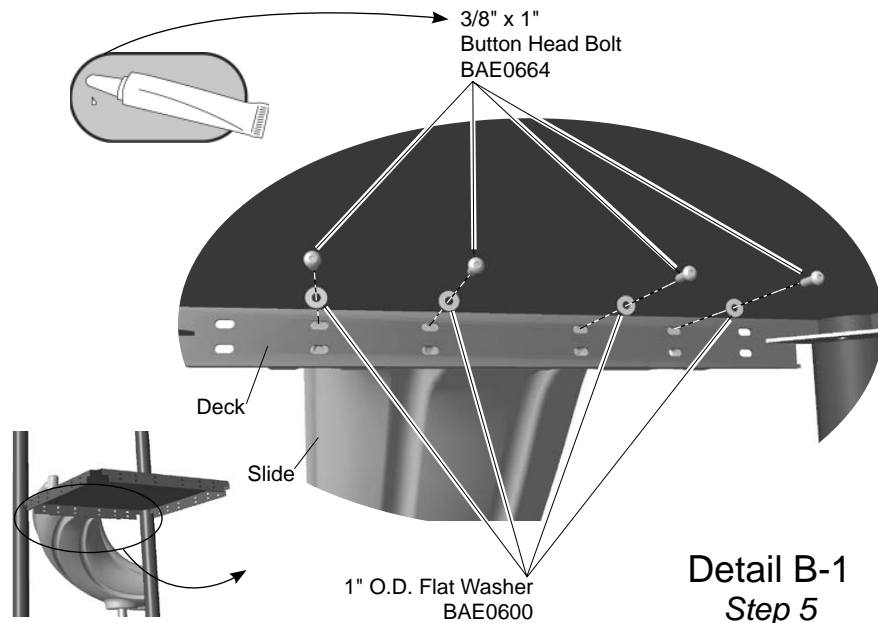
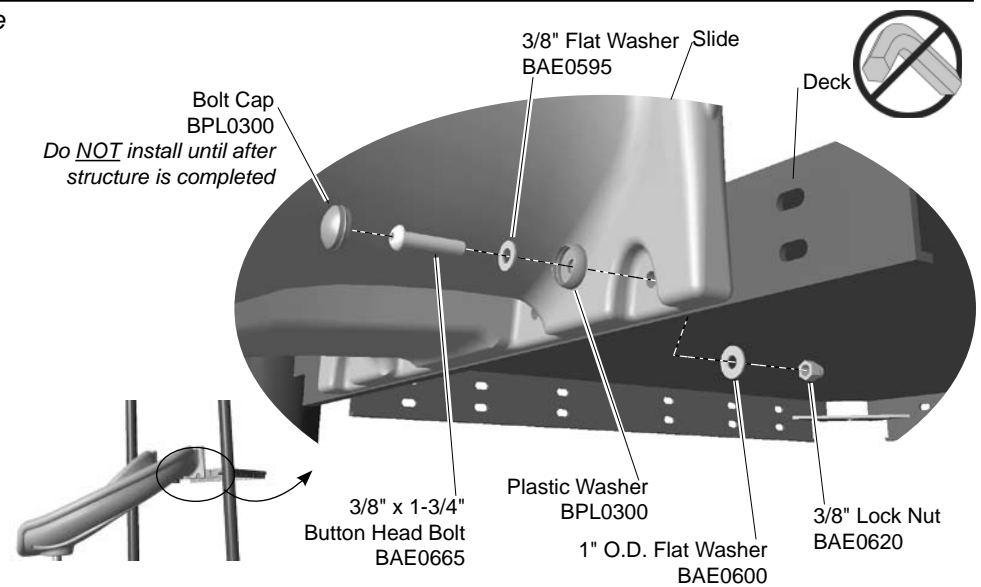
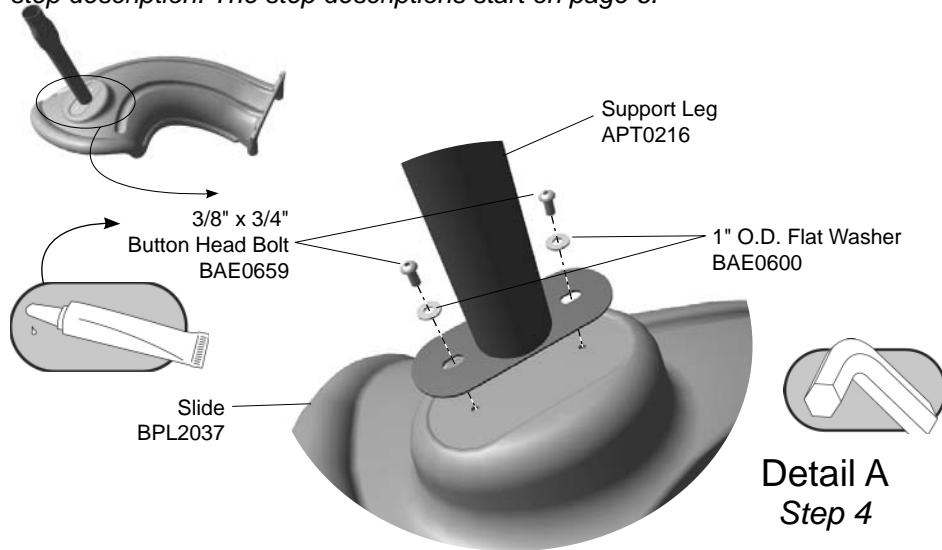
Elevation View



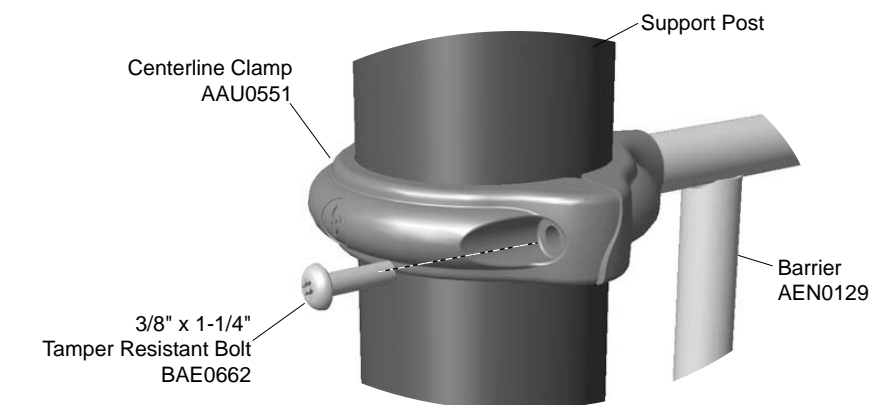
Footing Diagram

# Installation Instructions

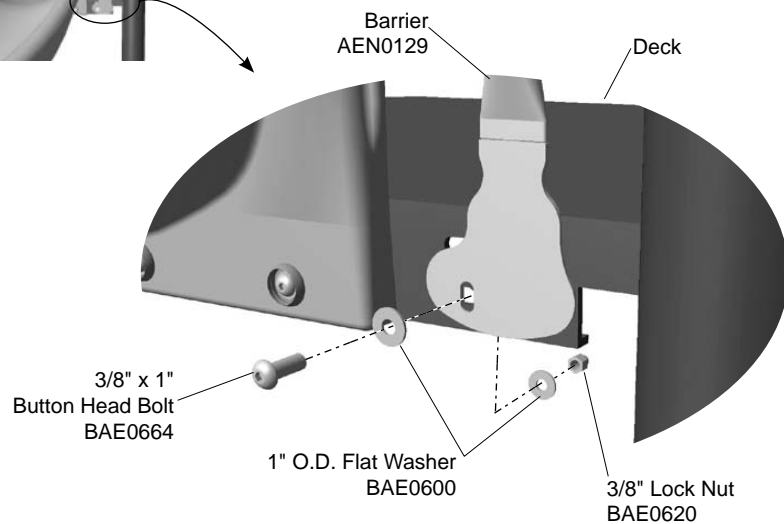
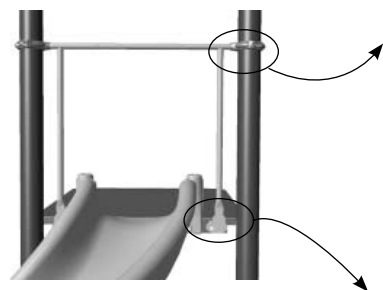
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



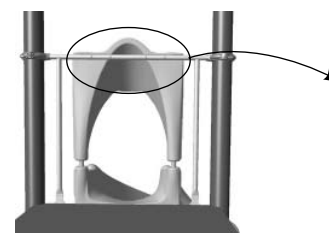
# Installation Instructions



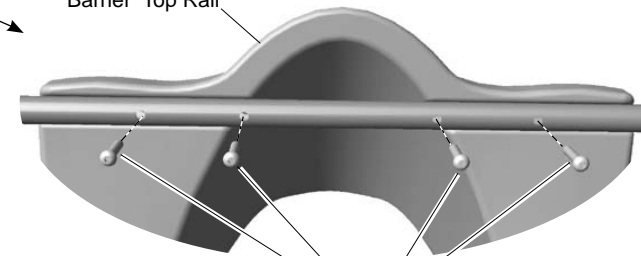
**Detail D-1**  
*Step 8*



**Detail D-2**  
*Step 9*

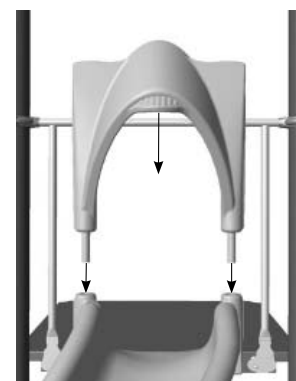


Barrier Top Rail

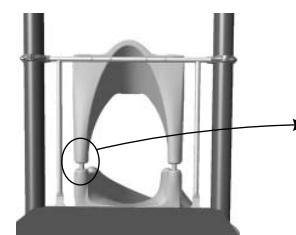


3/8" x 1-3/4" Button Head Bolt BAE0665

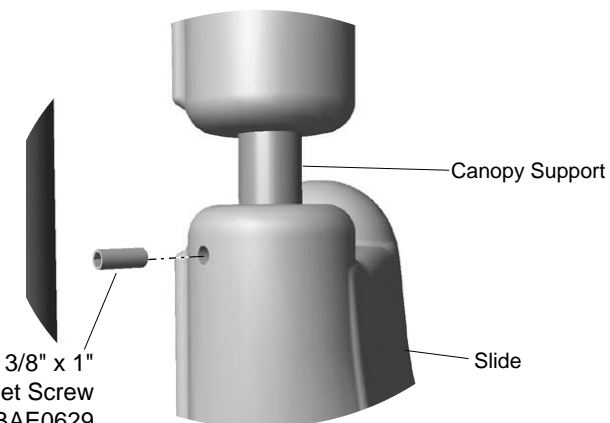
**Detail E-2**  
*Step 10*



**Detail E-1**  
*Step 10*

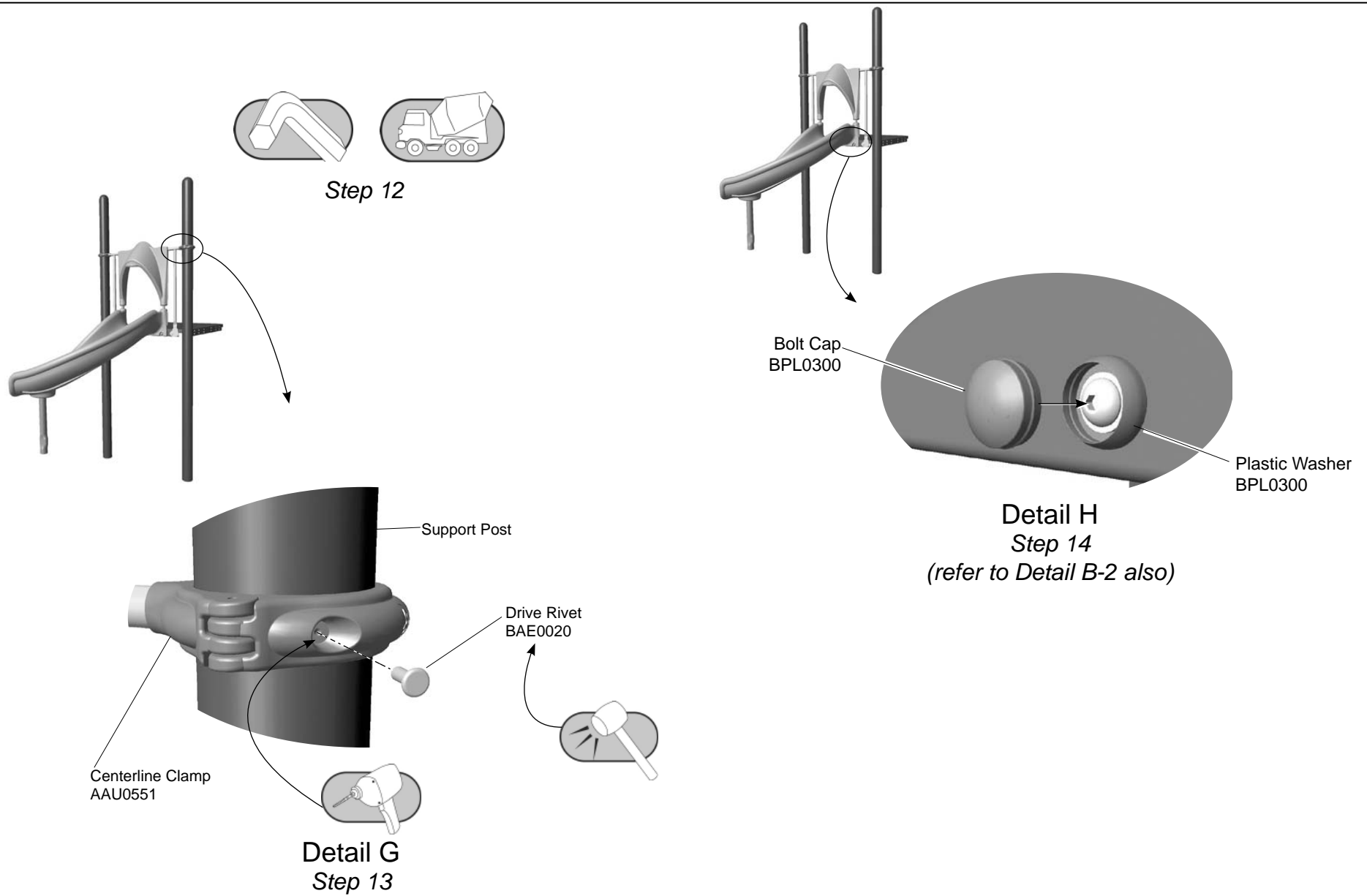


3/8" x 1" Set Screw BAE0629



**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* in the beginning of this instruction 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 bedway 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**. The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 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

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\_\_**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.

## PM3129 - 90° 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" TPR 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
BPL2037	SLIDE - 36" 90° GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

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Assembly View (representative model)

Model	Description	Weight
ZZPM4297	ABC and 123	53.4 lbs. (24,3 kg)
ZZPM4318	Find the Way Home	53.4 lbs. (24,3 kg)
ZZPM4359	Design-A-Panel	49.8 lbs. (22,6 kg)

## Installation Instructions

Playmakers® Models PM4297, PM4318, PM4359  
ABC and 123 Panel, Find the Way Home Panel,  
and Design-A-Panel

### Installation Preparation

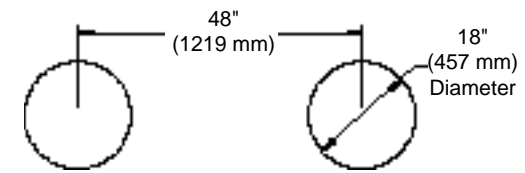
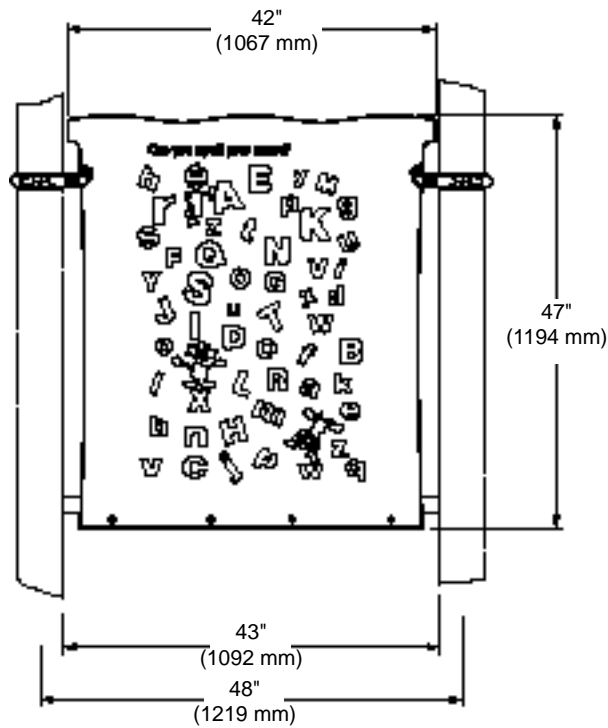
Recommended Crew: ..... One (1) adult  
 Installation Time: ..... 0.5 hour  
 Weight: ..... Refer to Chart  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

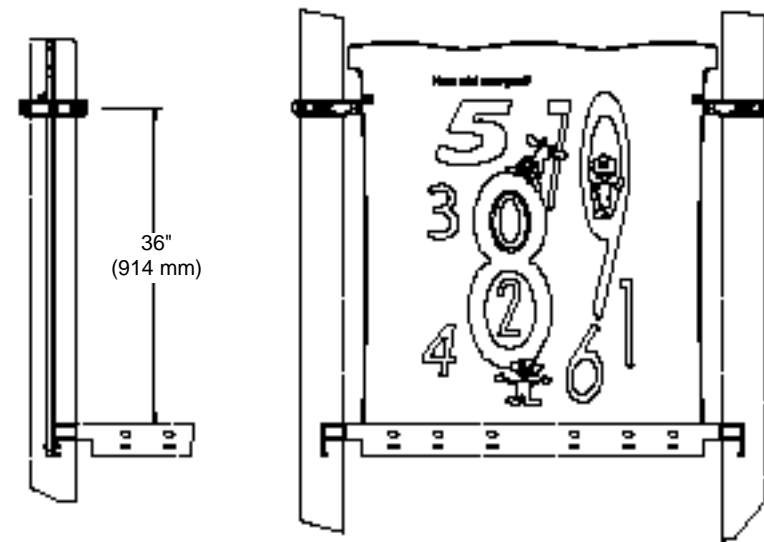
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

Top View

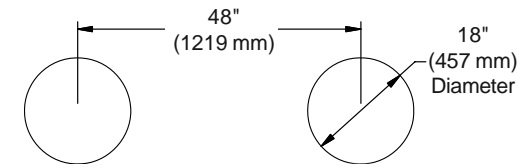


Footing Diagram

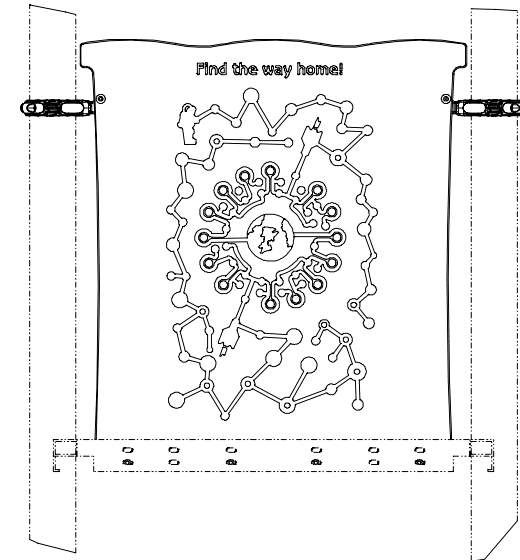
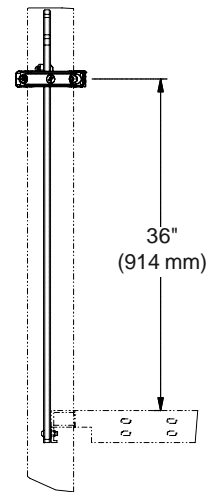
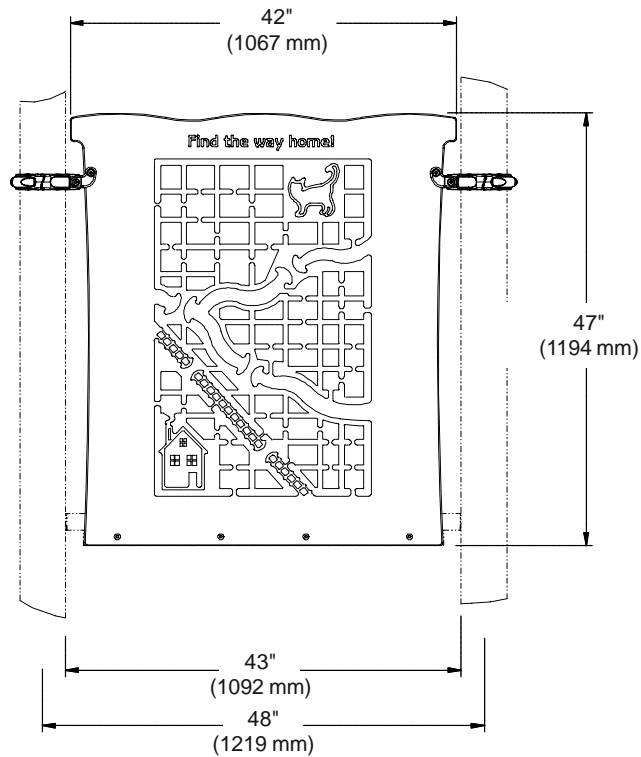


Elevation Views  
ZZPM4297

# Installation Instructions



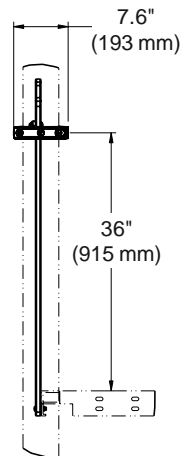
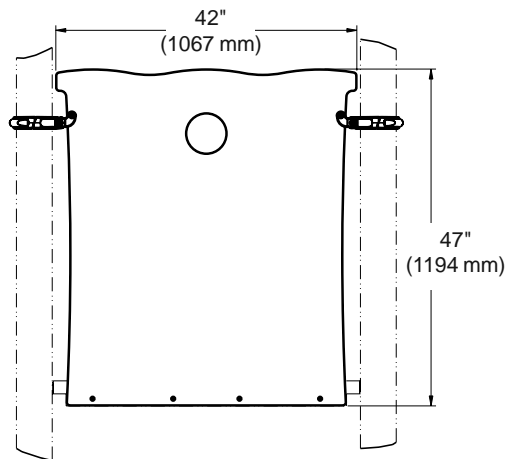
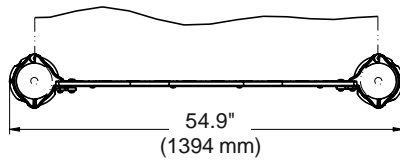
Footing Diagram



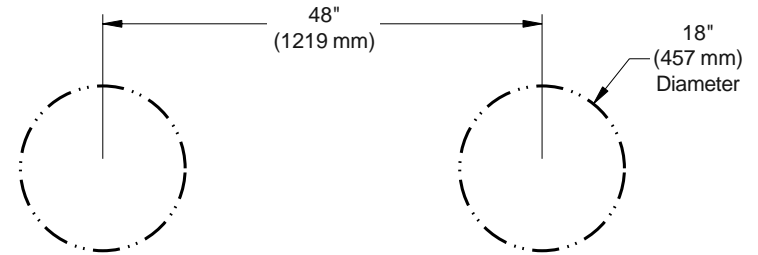
Elevation Views  
ZZPM4318

# Installation Instructions

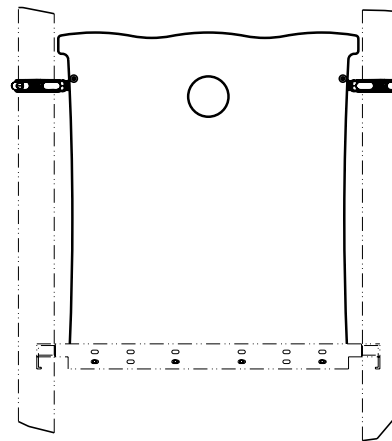
Top View



Elevation Views  
ZZPM4359

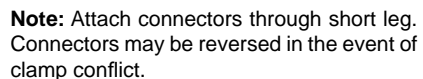


Footing Diagram





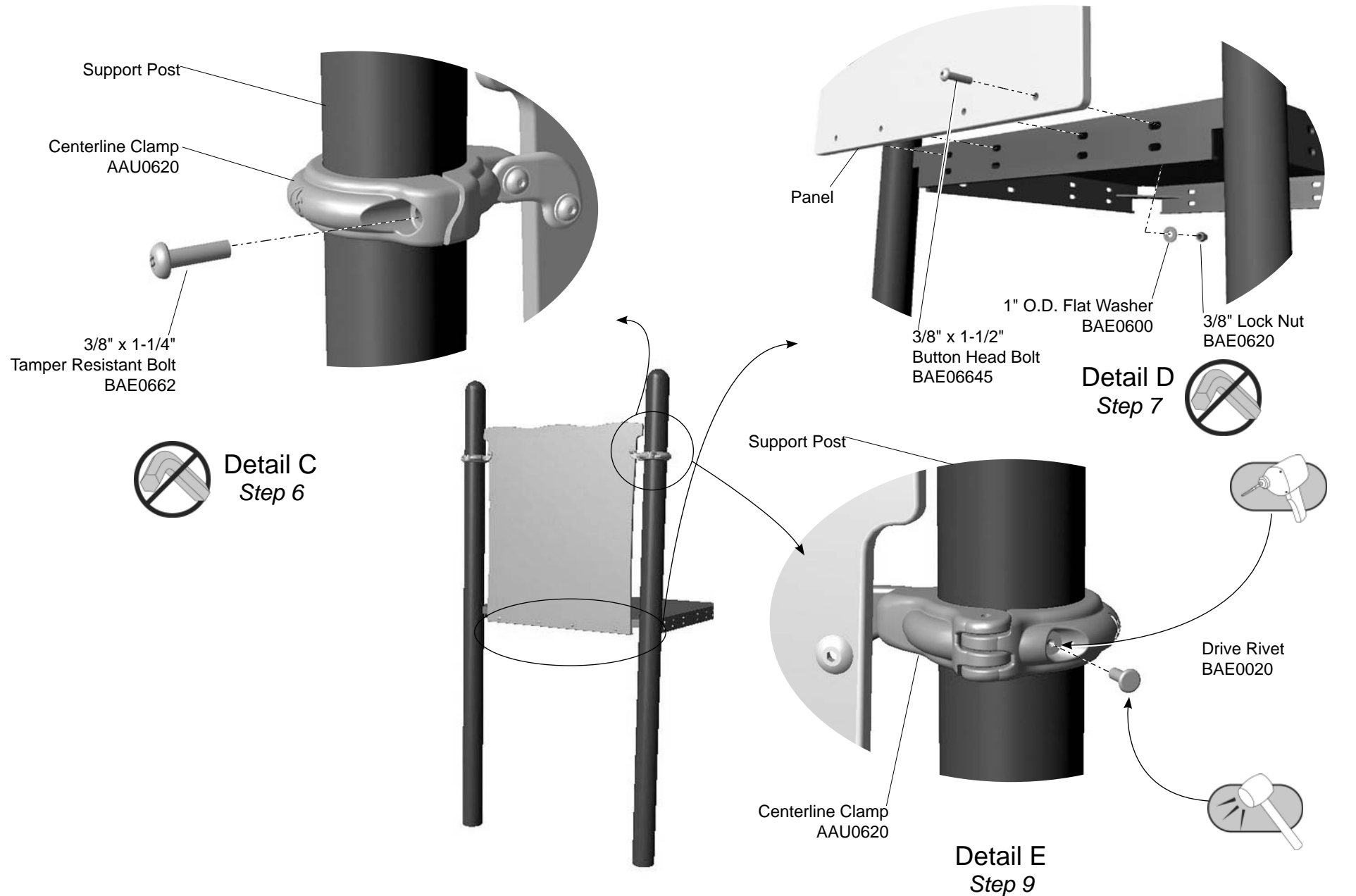
*Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.*



Model	Panel Part Number
ZZPM4297	BFC0353
ZZPM4318	BFC0341
ZZPM4359	CFD0002



# Installation Instructions



# Installation Instructions

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**\_\_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 (2) two 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 (2) two 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 (2) two 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.

**Attach the panel to the deck.**

**\_\_Step 7:** Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Align the holes. Attach as shown. Leave the connections loose for alignment adjustment.

**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.

**\_\_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.

## PM4297 - ABC AND 123 PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	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	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	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
BFC0353	SHEET - 42" x 47" ABC and 123 PANEL	1

## PM4359 - DESIGN-A-PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	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	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	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
CFD0002	SHEET - 42.00" x 47.00" DESIGN-A-PANEL (DECK MNT.)	1

## PM4318 - FIND THE WAY HOME PANEL

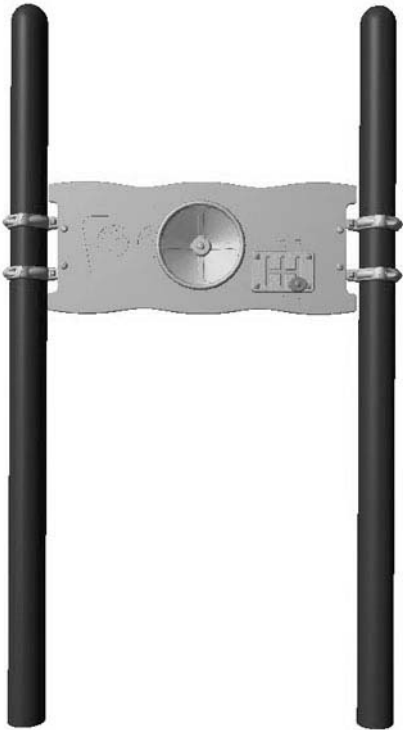
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	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
BFC0341	SHEET - 42" x 47" FIND THE WAY HOME PANEL	1

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Assembly View

# Installation Instructions

## Playmakers® Model PM4406

### Accessible Driving Panel

#### Installation Preparation

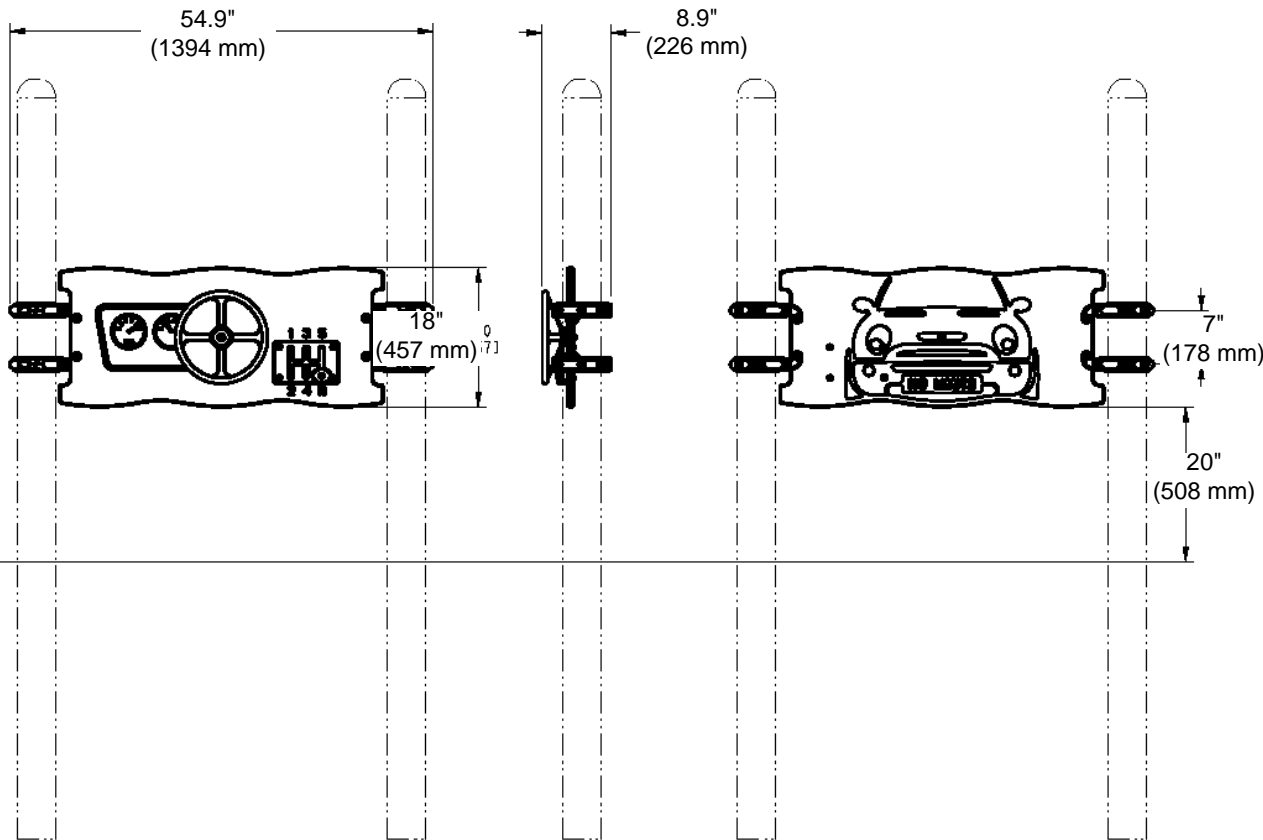
- Recommended Crew: ..... One (1) adult  
Installation Time: ..... 0.5 hour  
Weight: ..... \*31.6 lbs. (14.4 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

*\*Weights are approximate for determining manpower.*

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

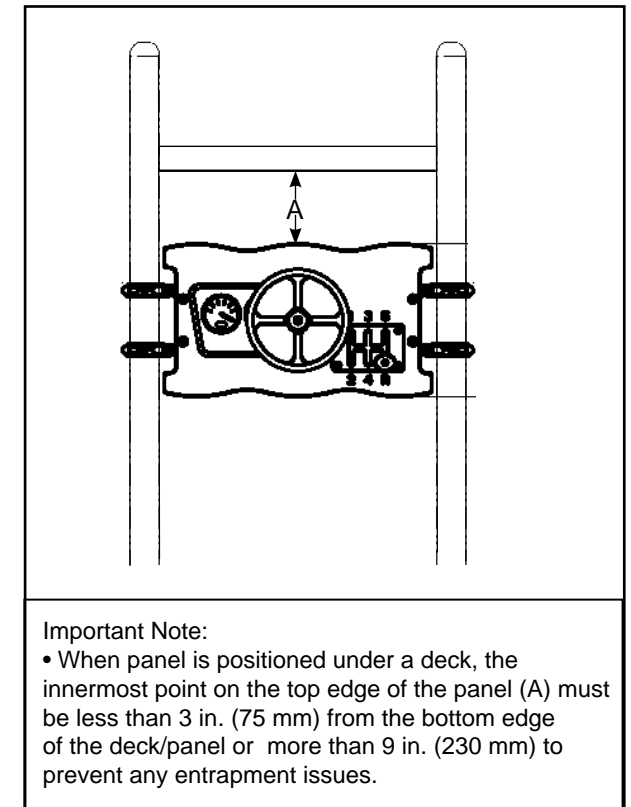
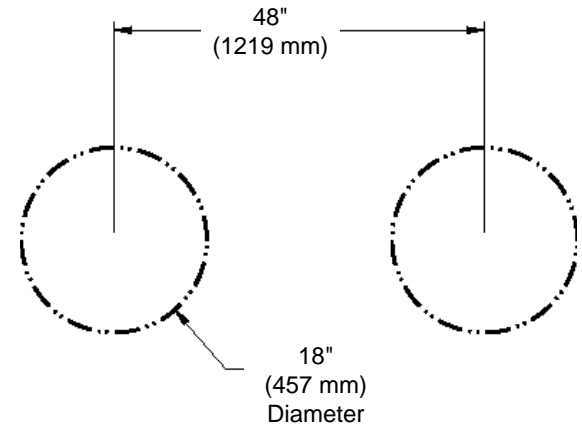
# Installation Instructions

Top View



Elevation Views

Footing Diagram



# Installation Instructions

## Note:

When panel is used as a guardrail, the maximum deck height above surfacing is:

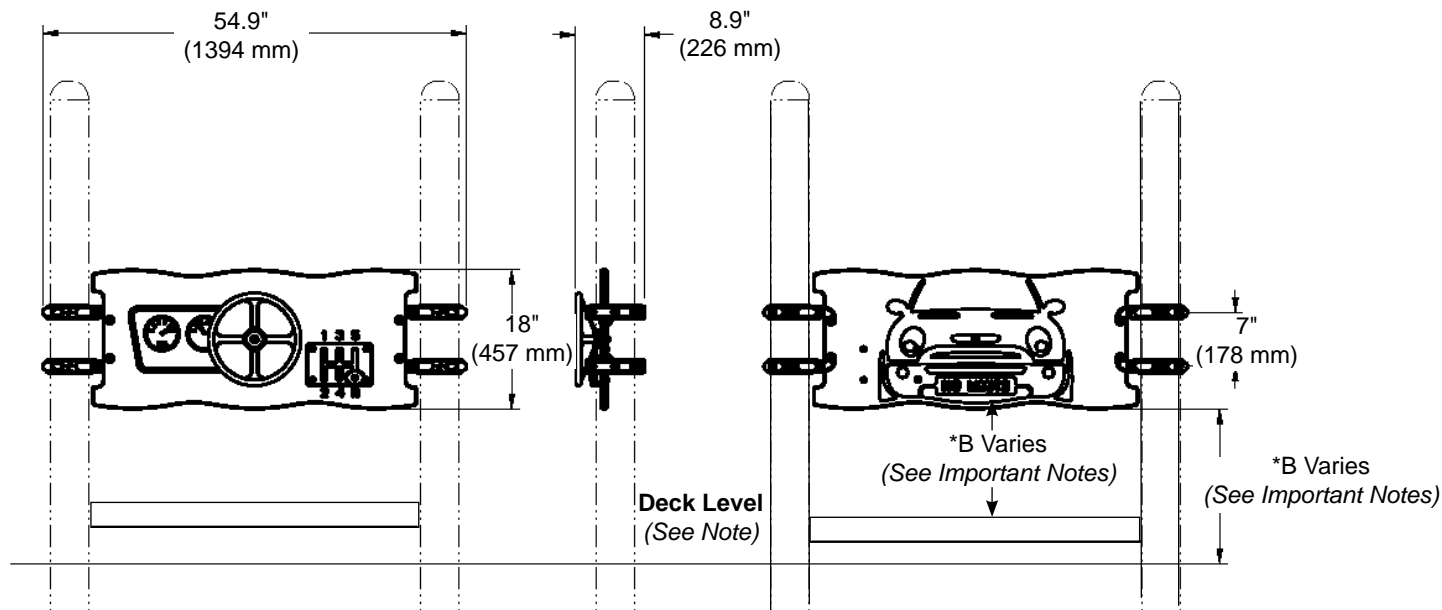
- 30" (762 mm) for 2 to 5 years old.
- 48" (1219 mm) for 5 to 12 years old.

## Deck / Platform Installation

### \*Important Notes:

When panel is used as a guardrail, the minimum height requirements must be maintained to prevent unintentional falls from a platform.

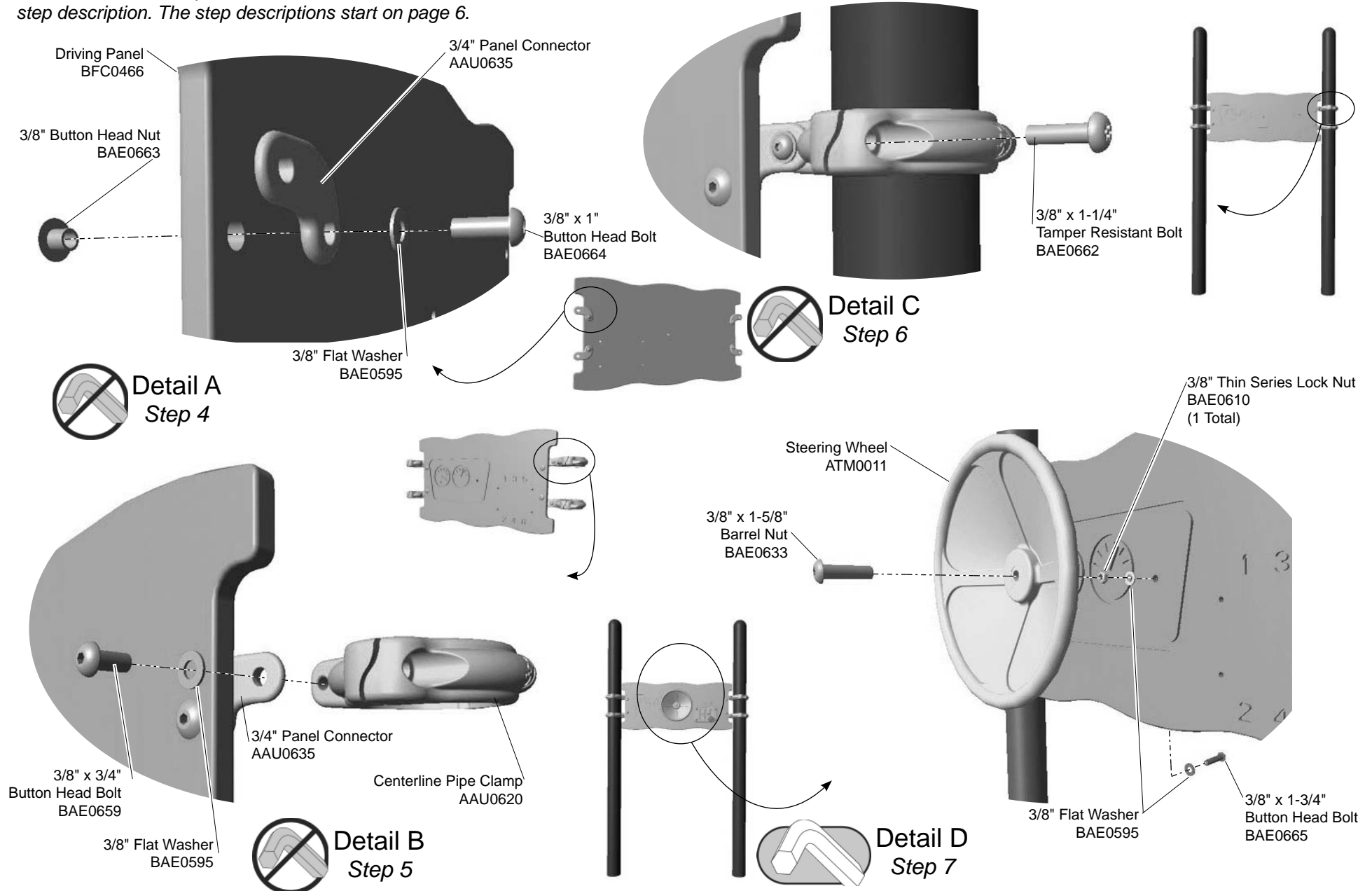
- Ages 2 to 5 years old: The top (A) innermost surface of the guardrail should be at least 29" (737 mm) high and the lower (B) innermost edge should be no more than 23" (584 mm) above the platform.
- Ages 5 to 12 years old: The top (A) innermost surface of the guardrail should be at least 38" (965 mm) high and the lower (B) outermost edge should be no more than 28" (711 mm) above the platform.



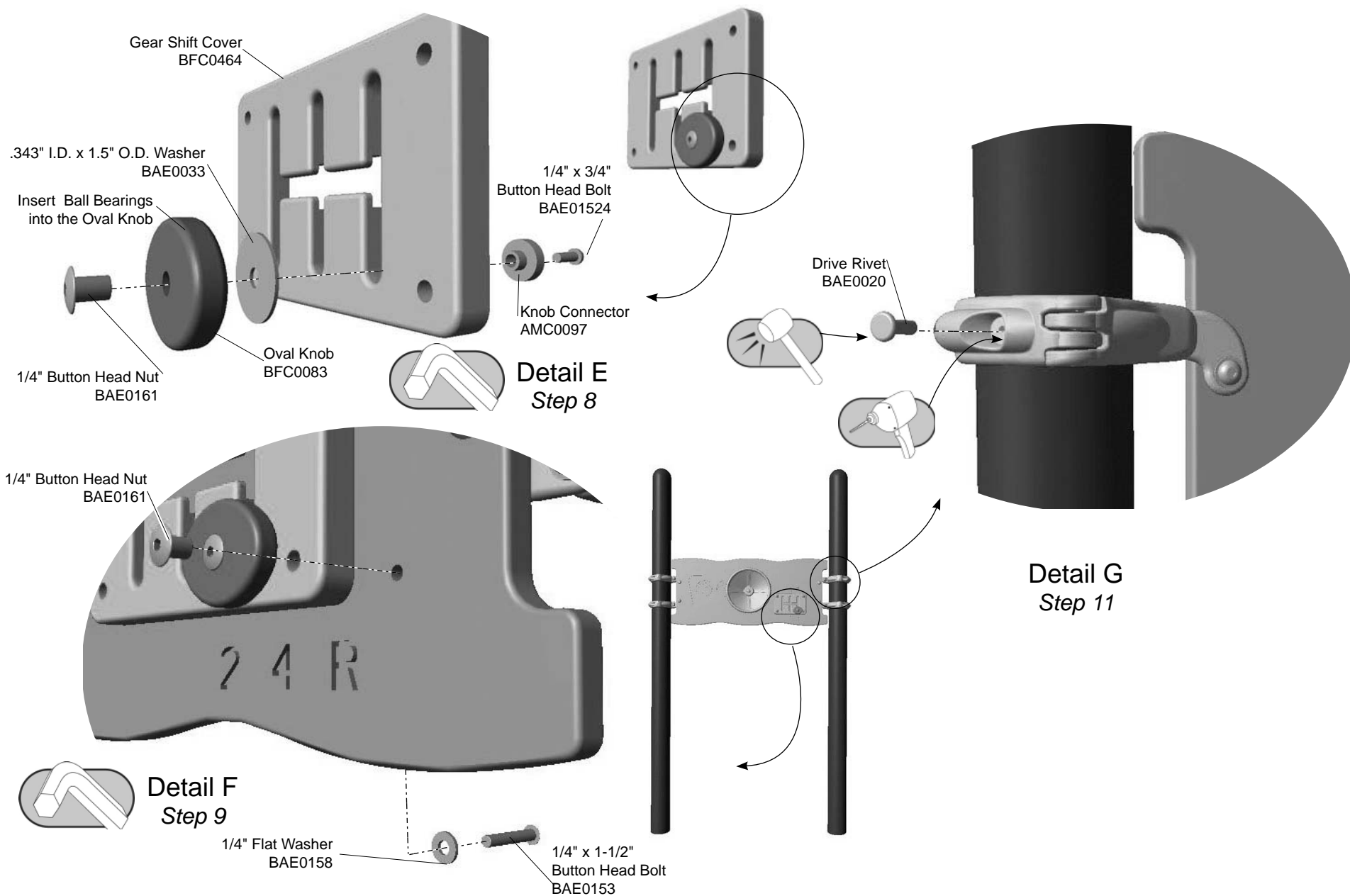


# Installation Instructions

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

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**\_\_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

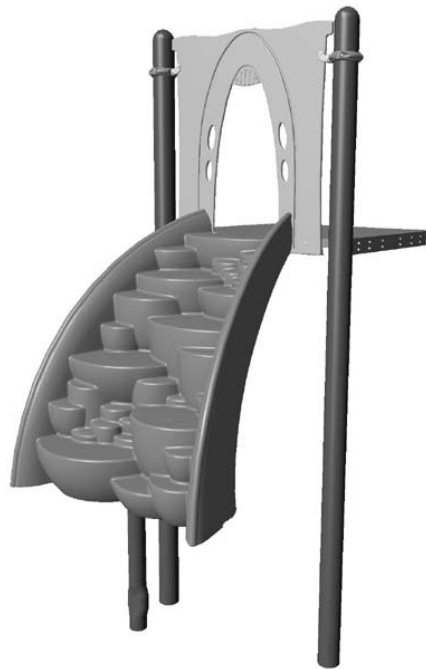
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
AMC0032	MISC - BAG OF 15, 1/4" S.S. BALL BEARINGS	1
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 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

## Installation Instructions Playmakers® Model PM7439 Rock Climber To Deck

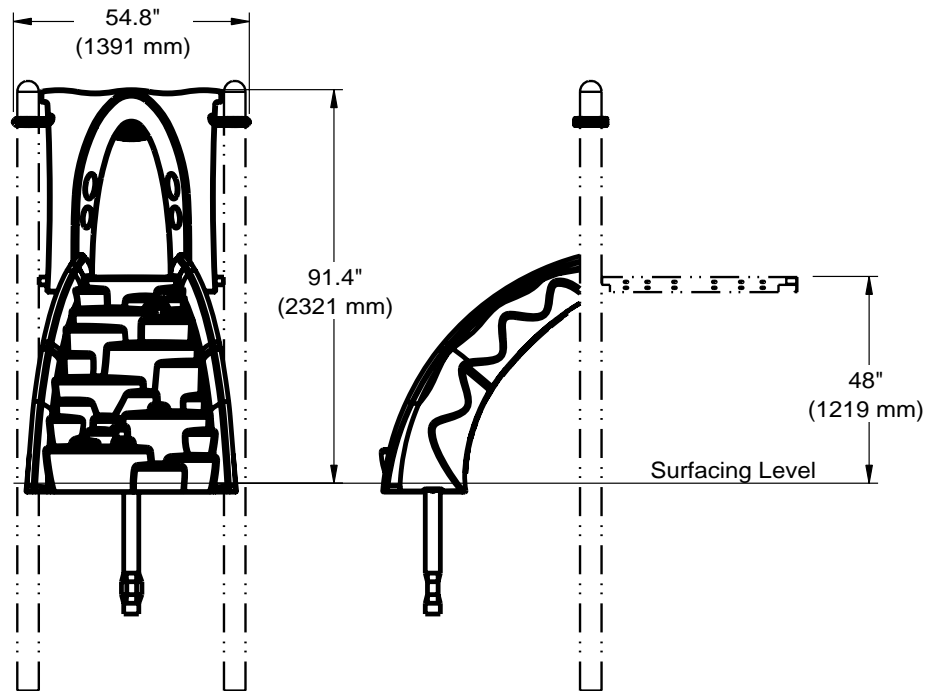
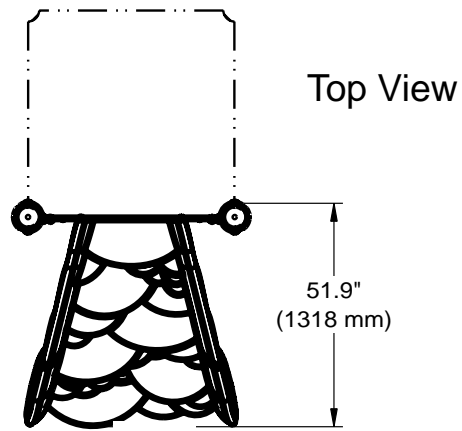
### Installation Preparation

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

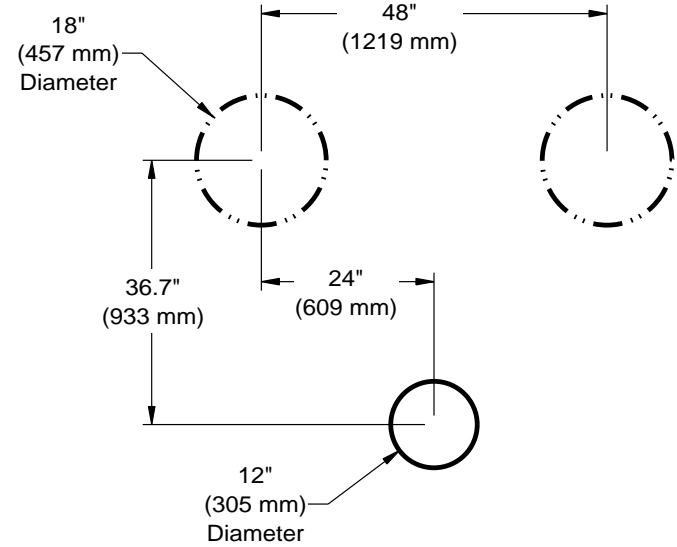
### ICON KEY

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

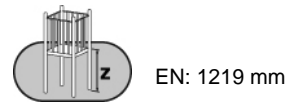
# Installation Instructions



Elevation Views



Footing Diagram



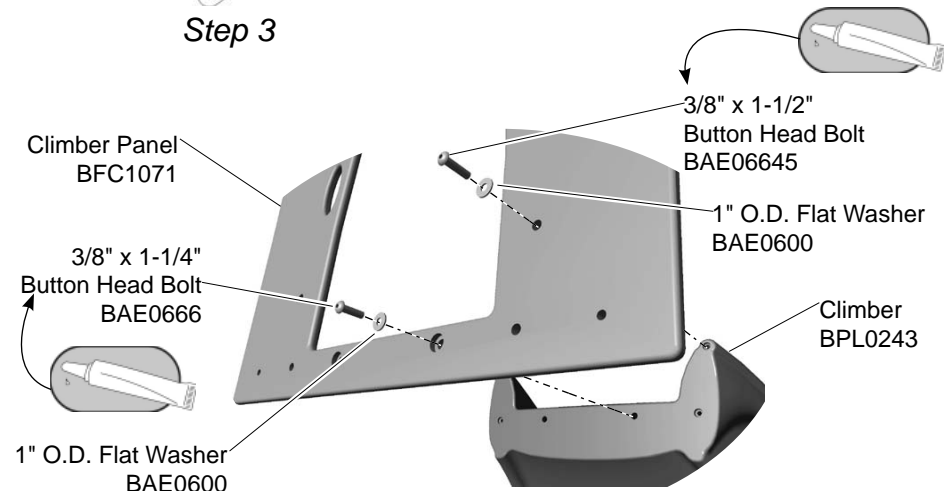


# Installation Instructions

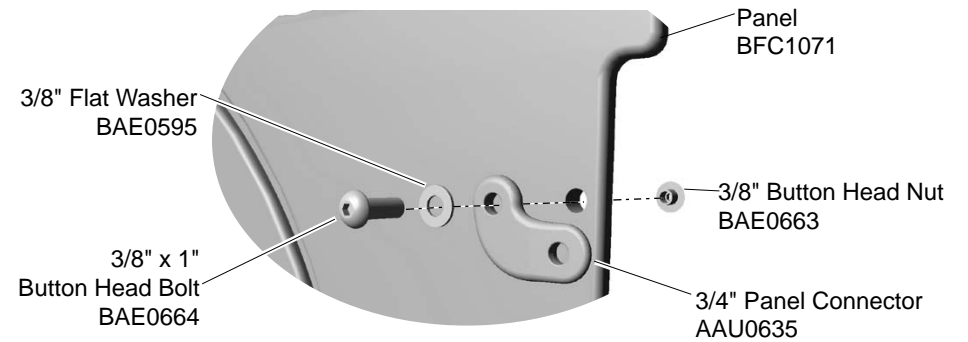
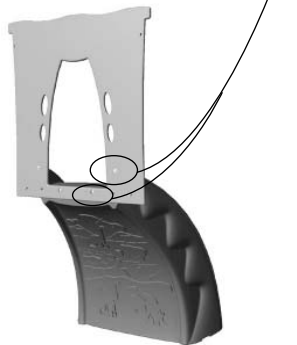
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



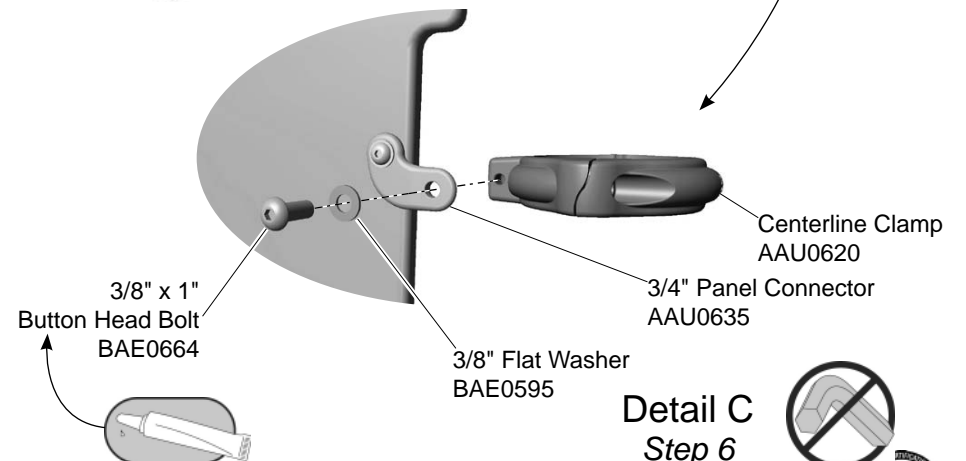
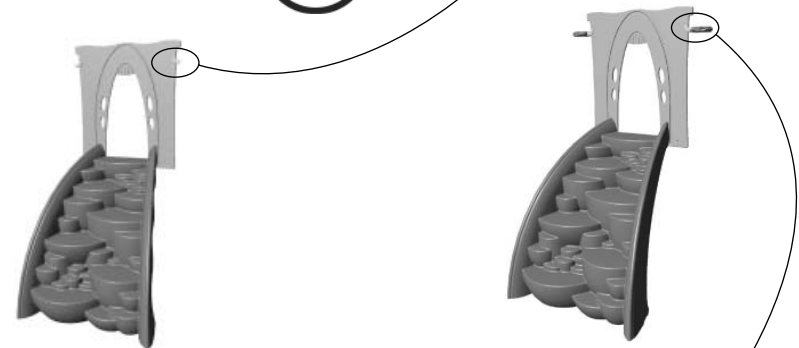
Step 3



Detail A  
Step 4



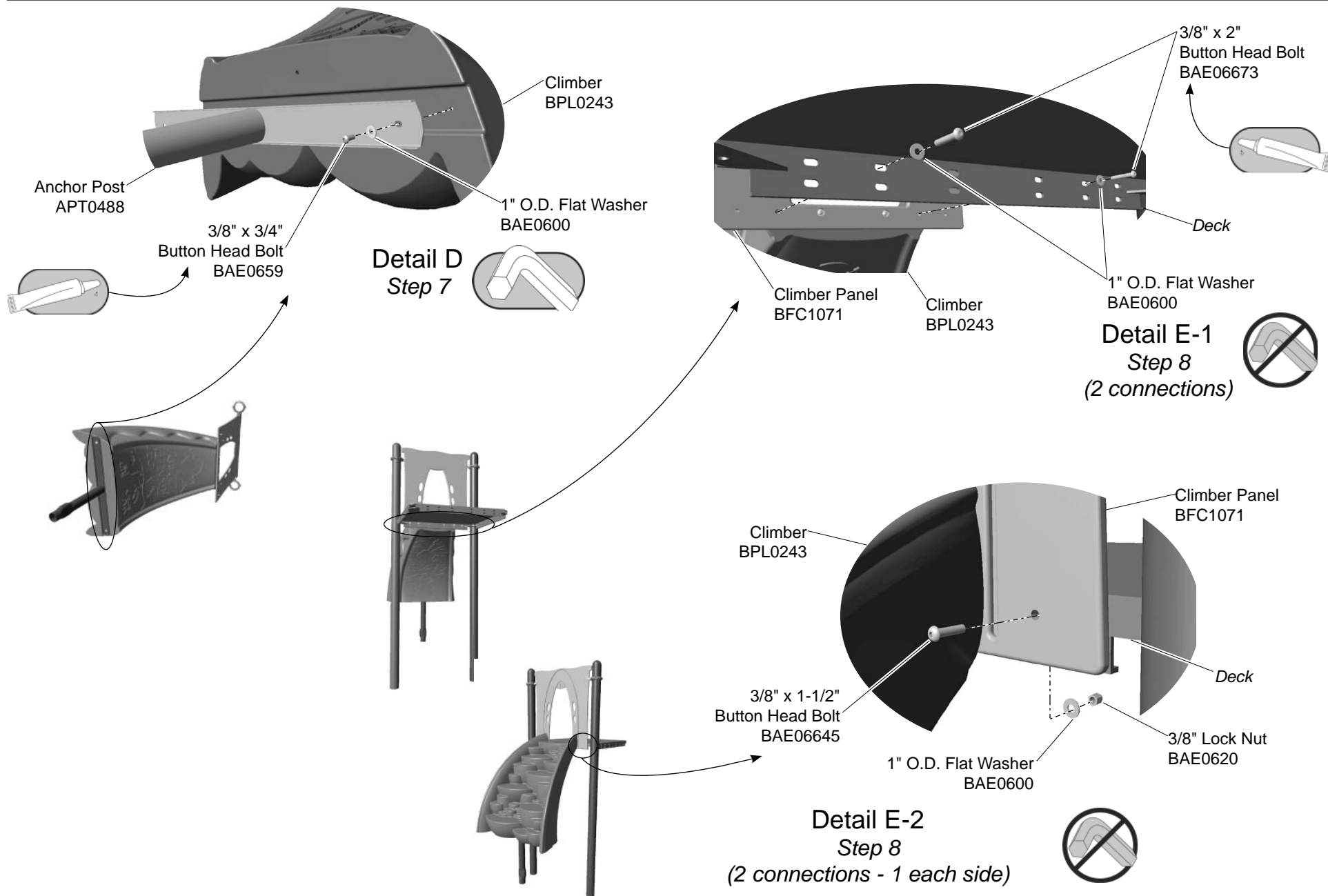
Detail B  
Step 5



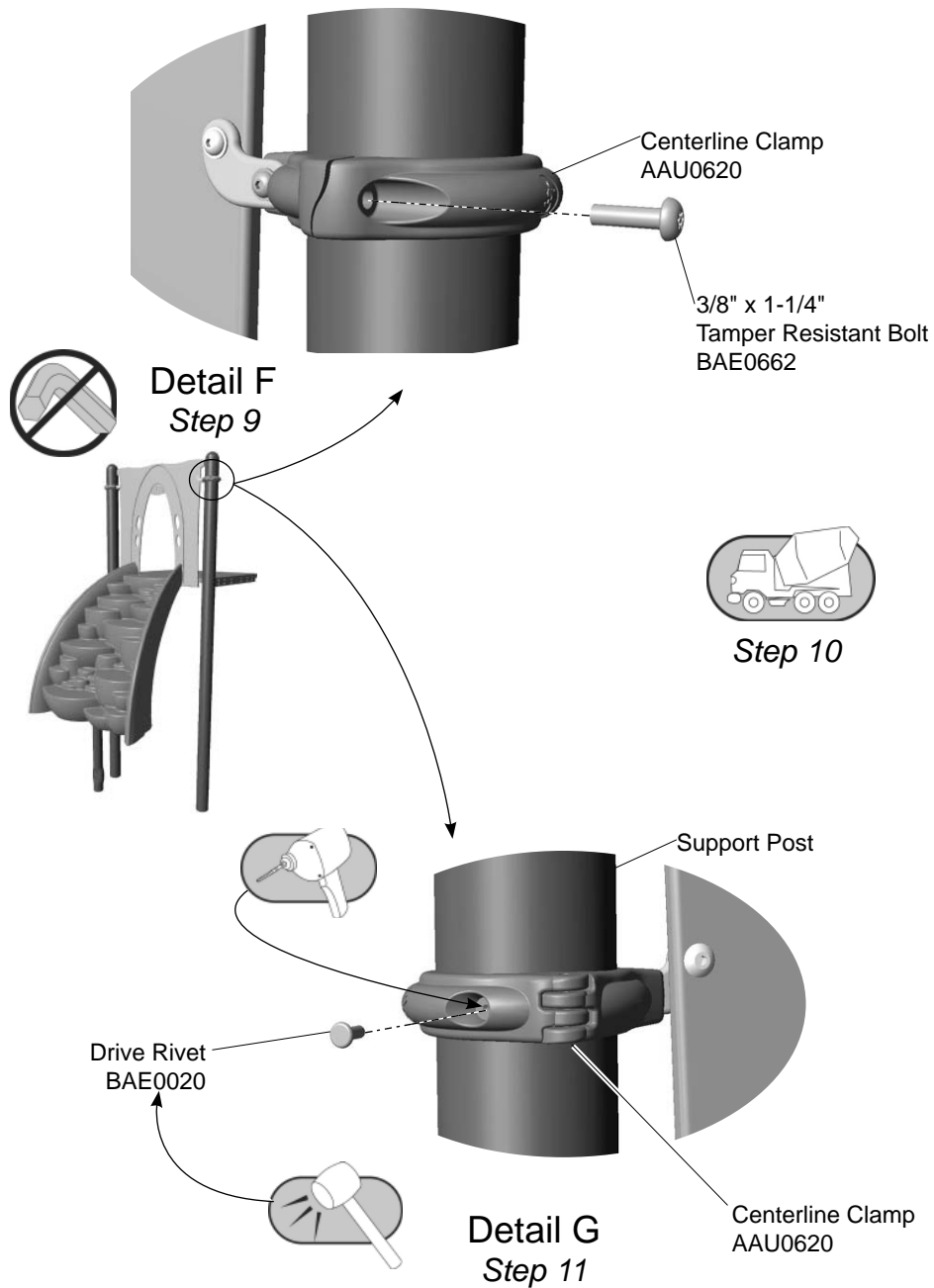
Detail C  
Step 6



# 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 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" TPR 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

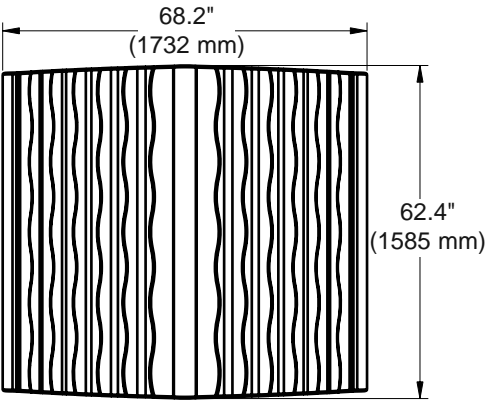
Installation Instructions  
Playmakers®  
Model PM9846  
Cabana Roof

**Installation Preparation**

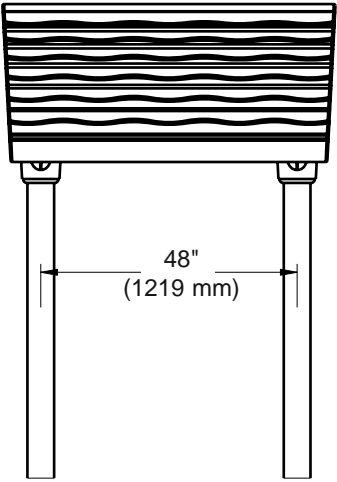
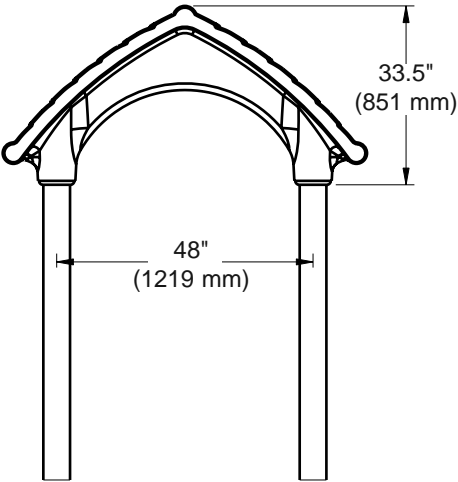
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 123 lbs. (55,9 kg)

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

# Installation Instructions



Top View



Elevation Views  
ZZPM9846



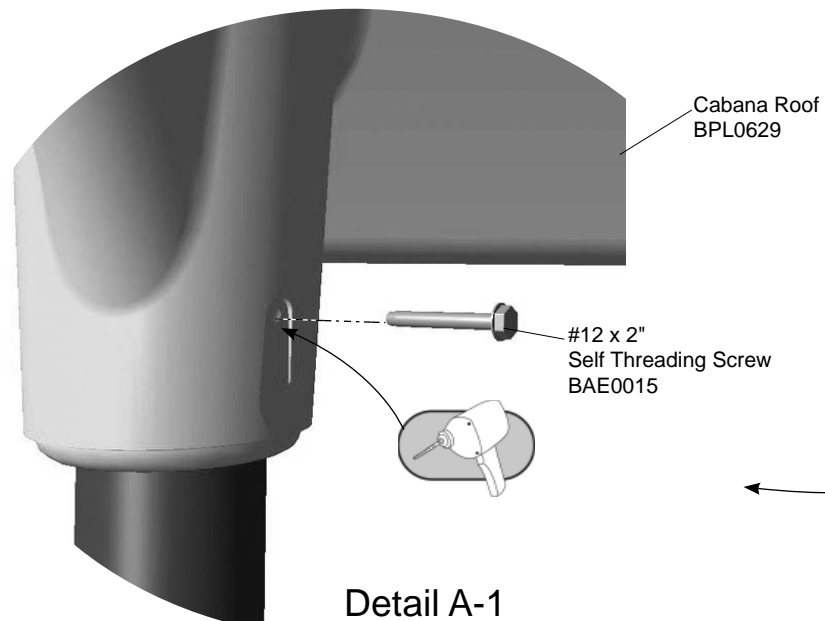


# Installation Instructions

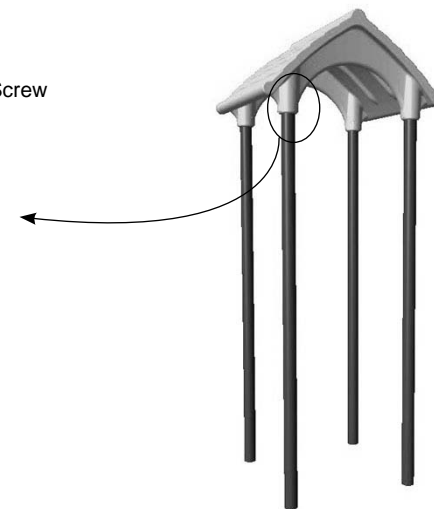
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1  
Step 3



Detail A-1  
Step 3



# 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.

## 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 (representative model)

## Installation Instructions

### Playmakers®

Models PM9168, PM9170 and PM9177  
Deck to Deck Accessible Tiered Platform  
12 in. (305 mm), 24 in. (610 mm) and  
36" (914 mm) Rise Height

### Installation Preparation

Recommended Crew: ..... Two - Three (2-3) adults  
Installation Time: ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

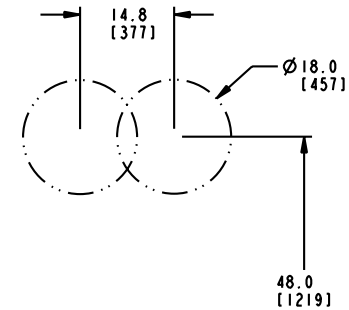
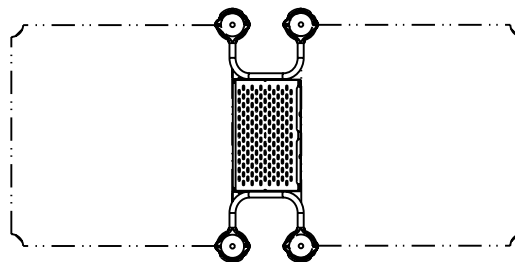
#### ICON KEY

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

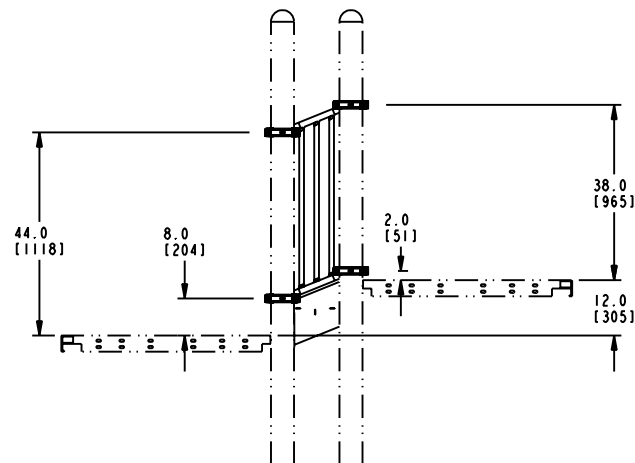
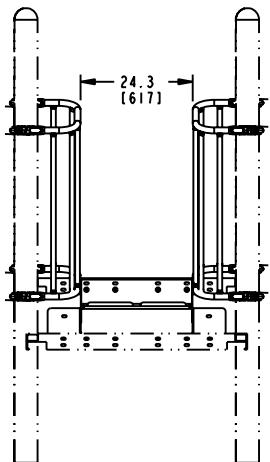
# Installation Instructions

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

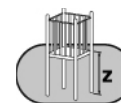
Top View



Footing Diagram



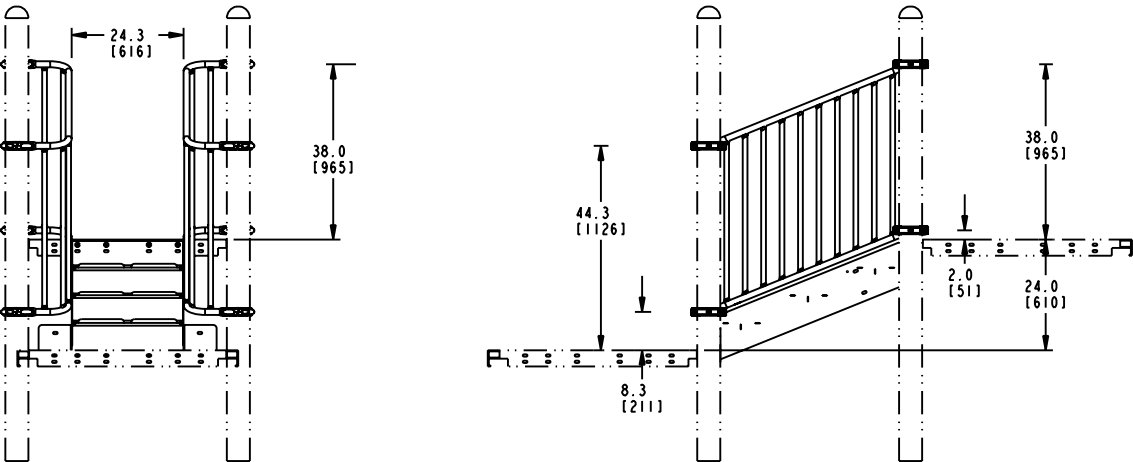
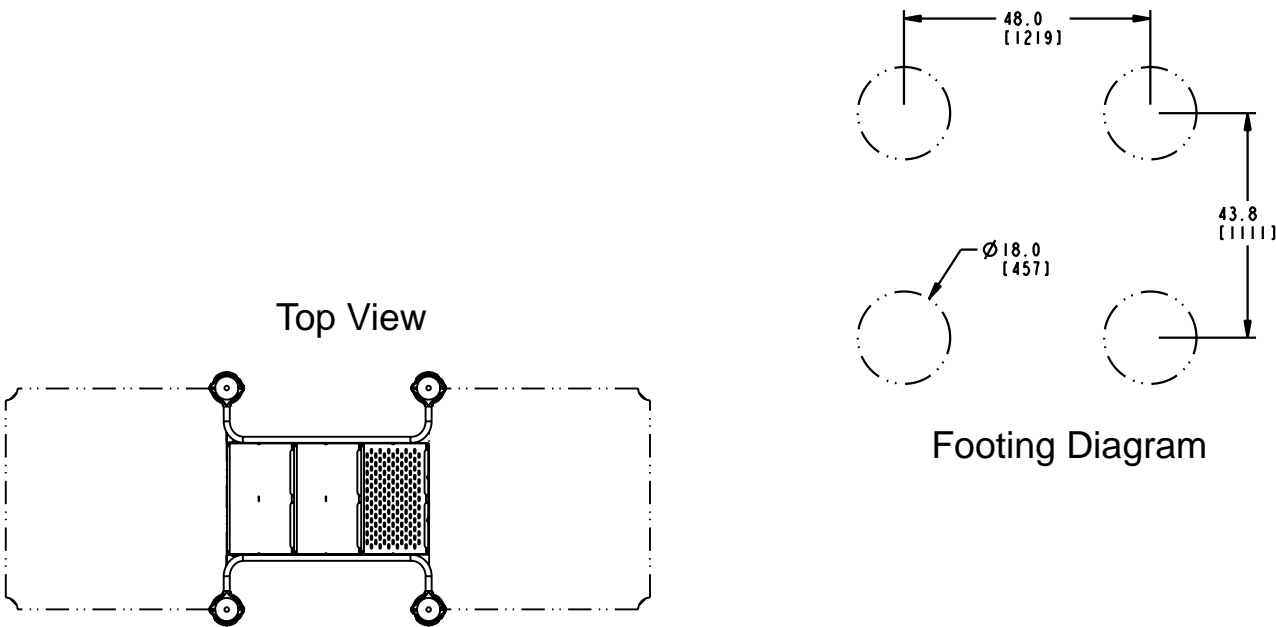
Elevation Views  
PM9168



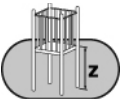
Height of the upper deck  
minus 6" (152 mm)

# Installation Instructions

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



Elevation Views  
PM9170



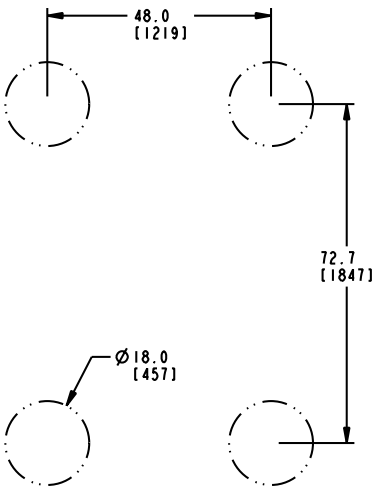
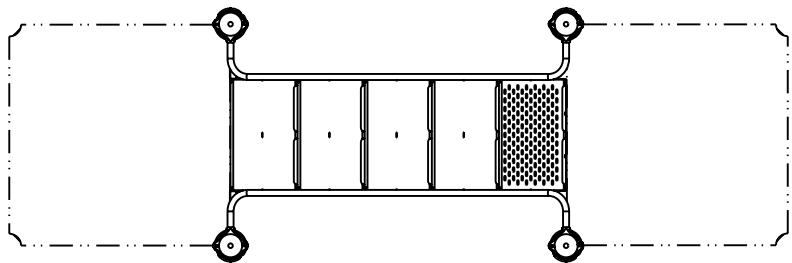
Height of the upper deck  
minus 6" (152 mm)



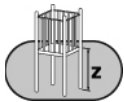
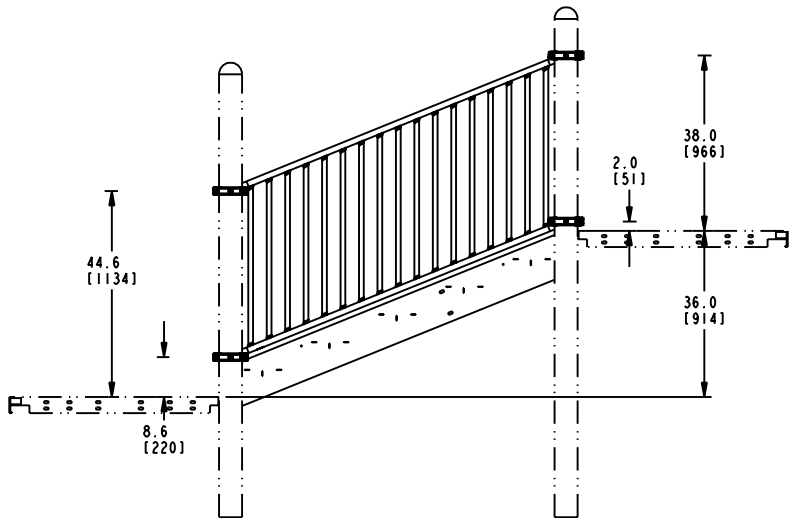
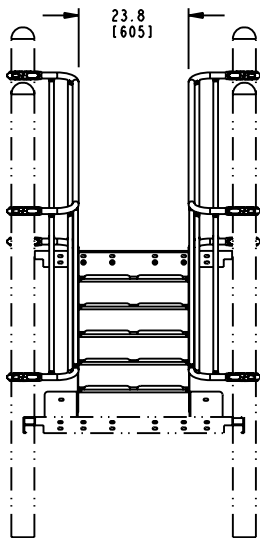
# Installation Instructions

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

Top View



Footing Diagram



Height of the upper deck  
minus 6" (152 mm)

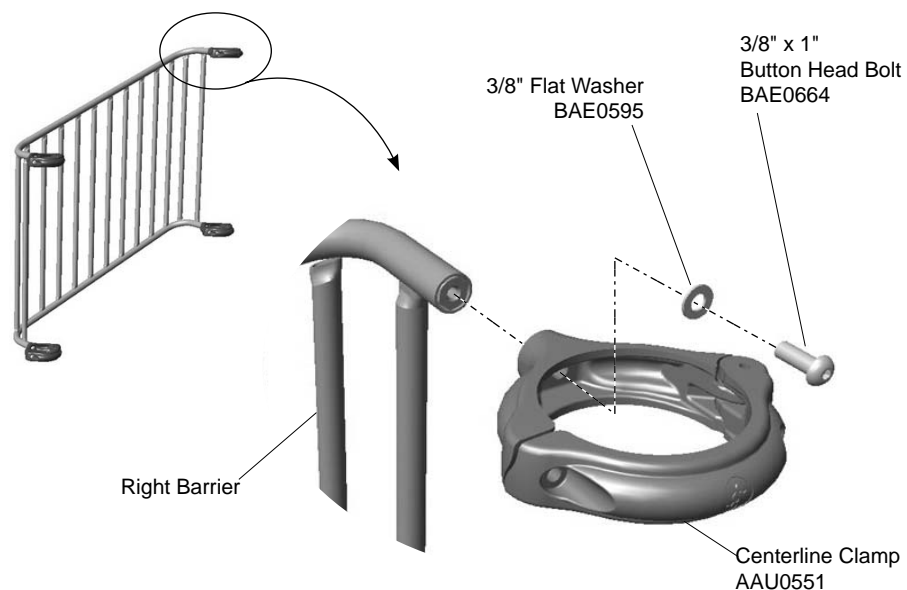
Elevation Views  
PM9177





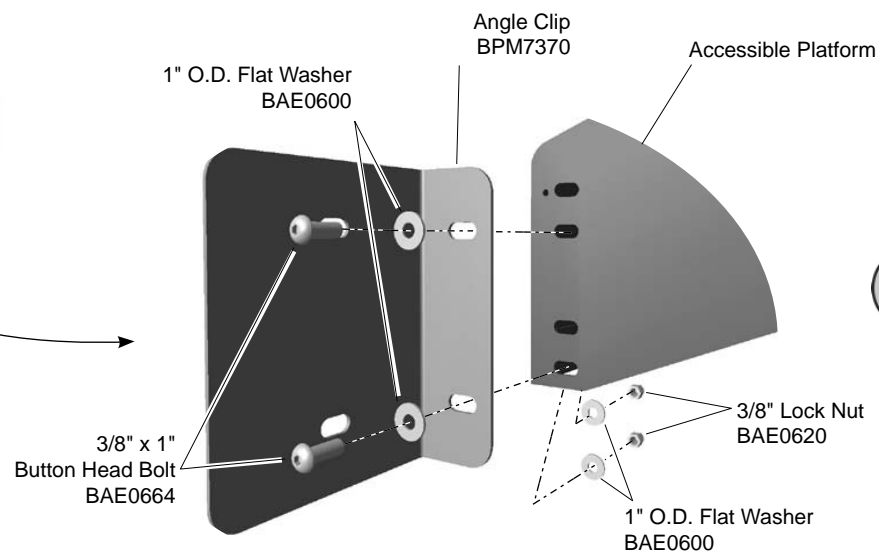
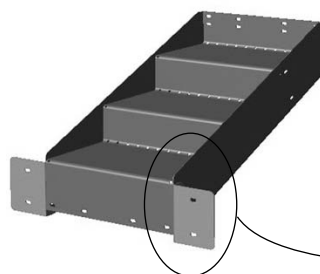
# Installation Instructions

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

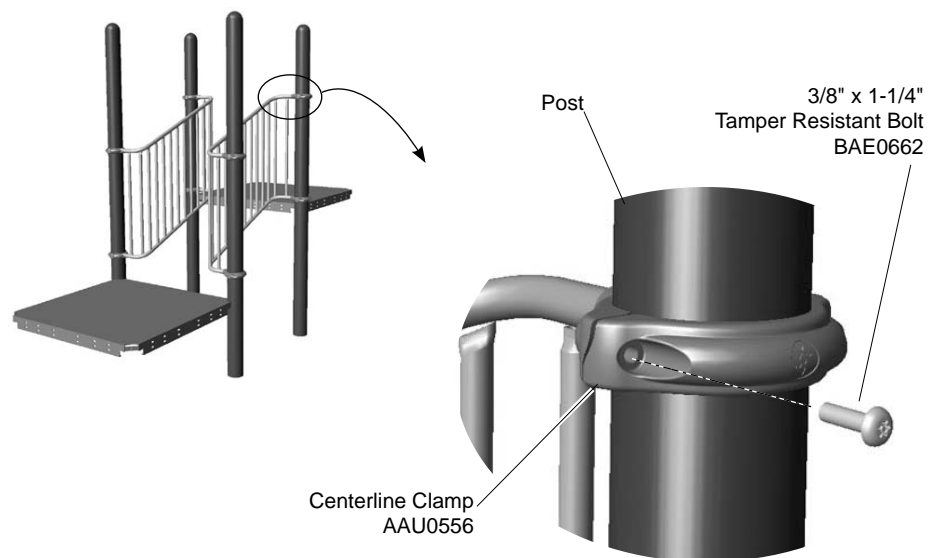


**Detail A**  
Step 4

The front of angle clip should be even with the face of the platform



**Detail C**  
Step 6

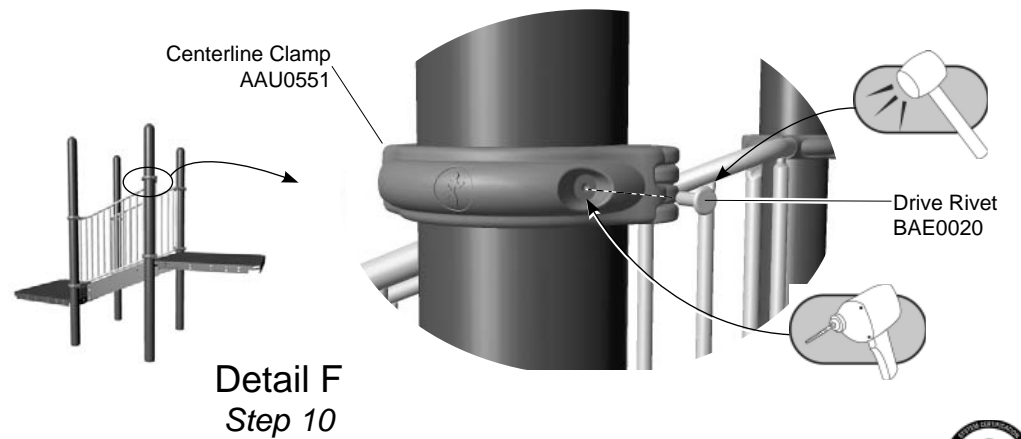
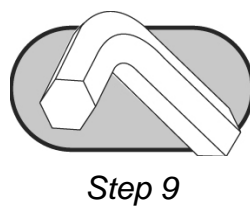
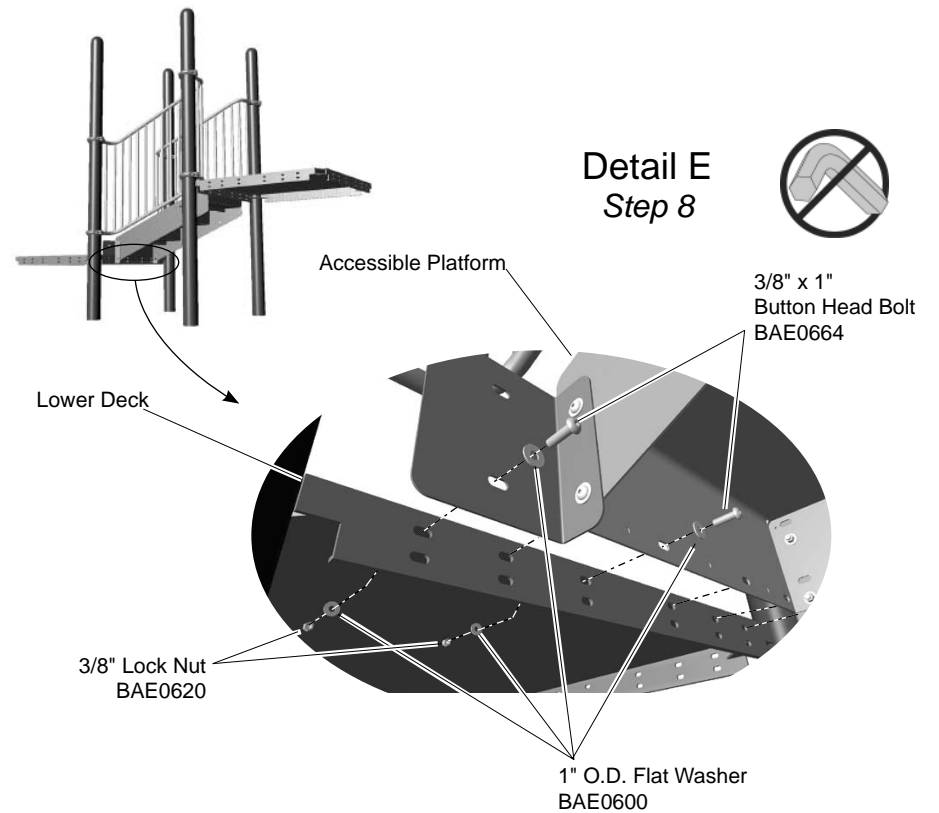
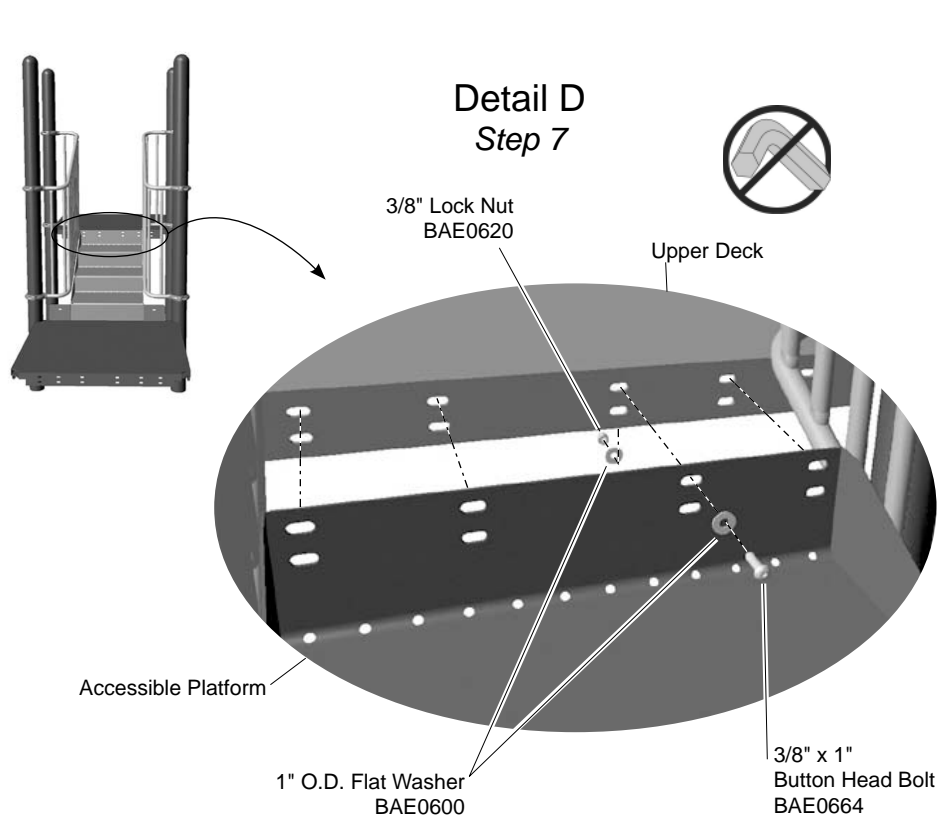


**Detail B**  
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

# 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.

## 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
BPM0296	STAIR - 12" ACCESSIBLE	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
BPM0299	STAIR - 36" ACCESSIBLE	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
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



For Customer Service, Call  
**800-233-8404** or  
**570-522-9800** OUTSIDE U.S.  
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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

Playworld Systems®




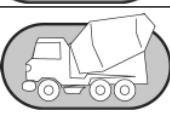
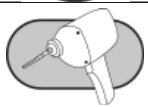

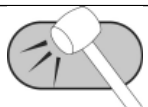
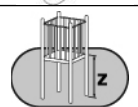
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

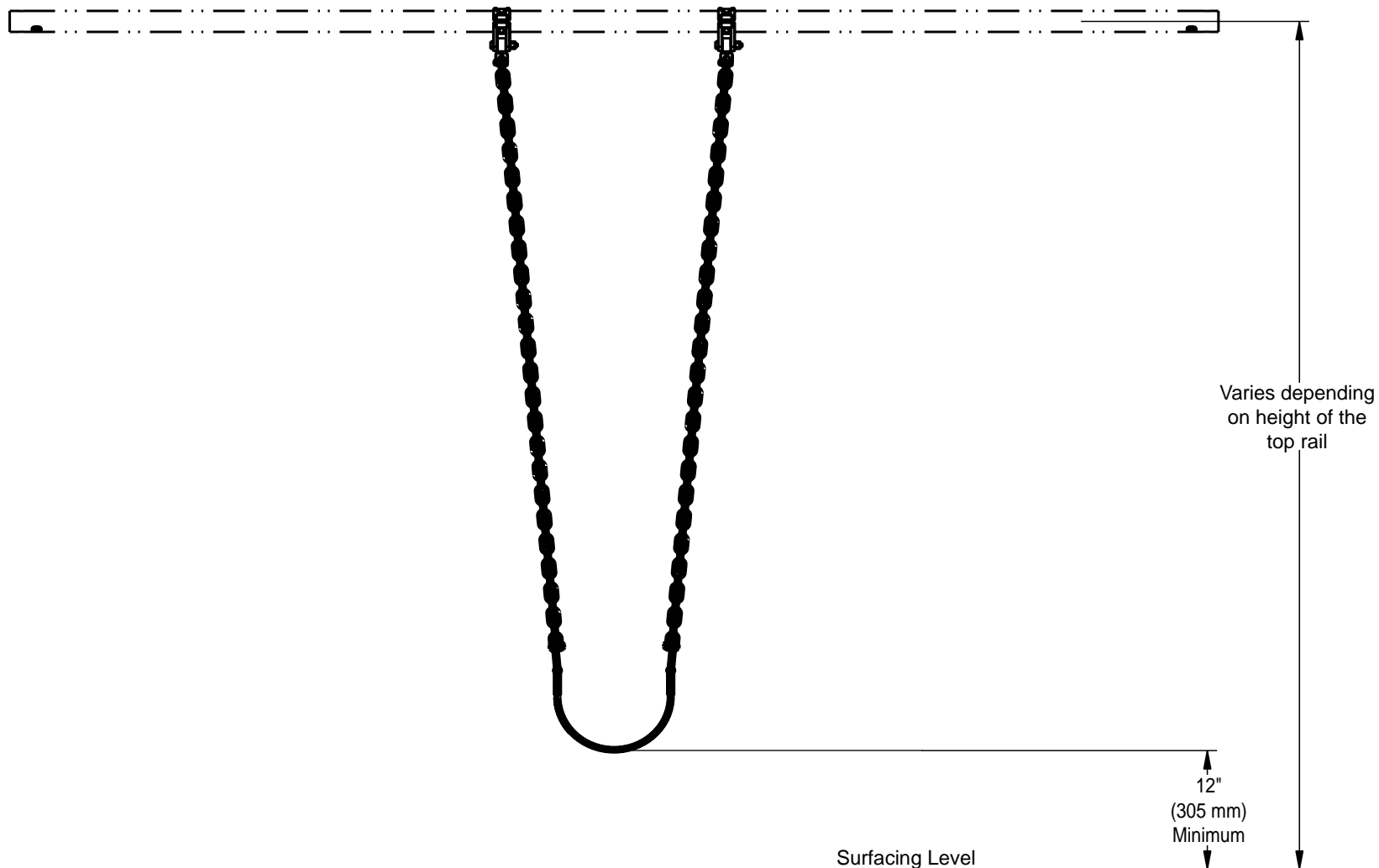
### Installation Preparation

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 <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

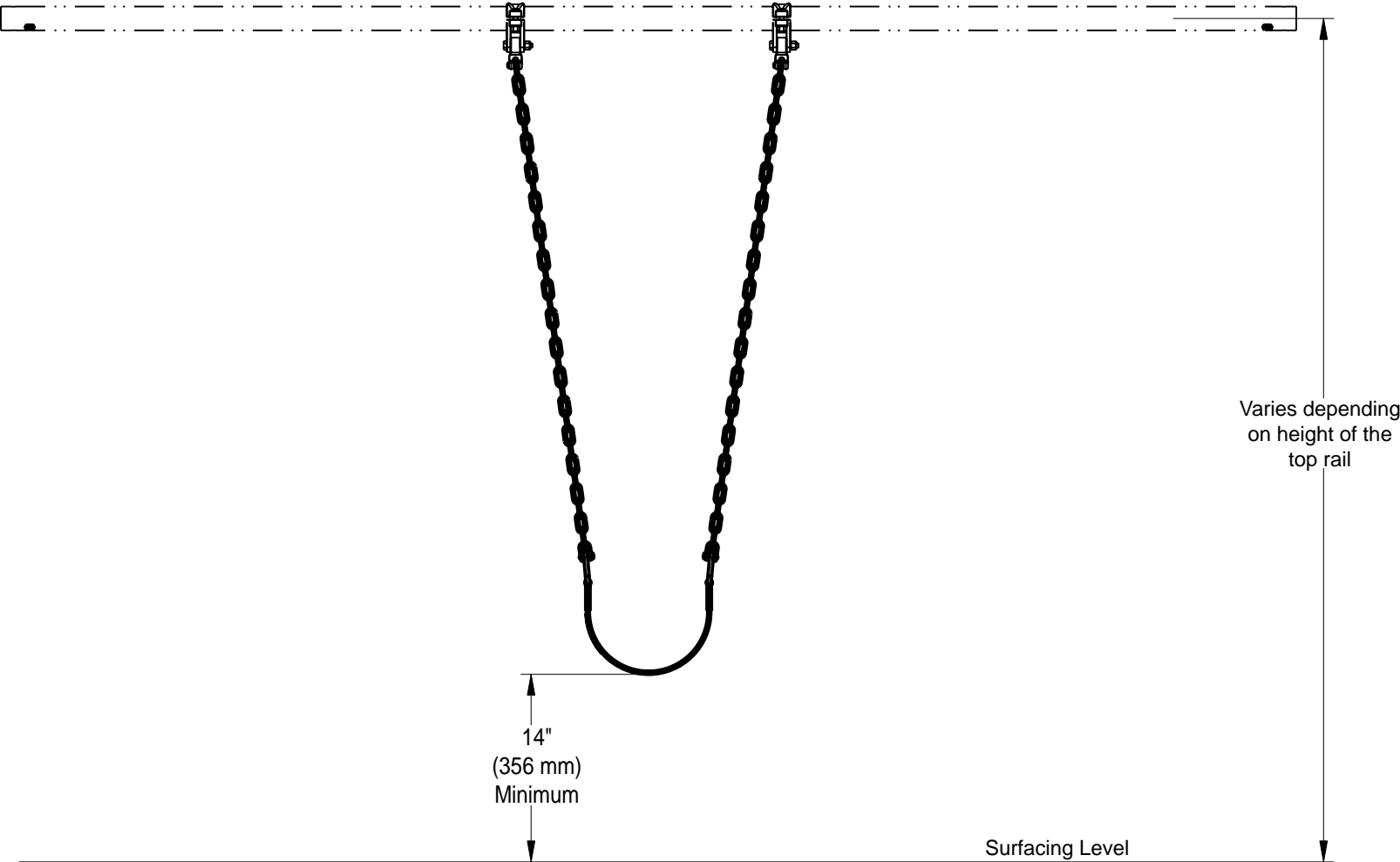
# Installation Instructions



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)

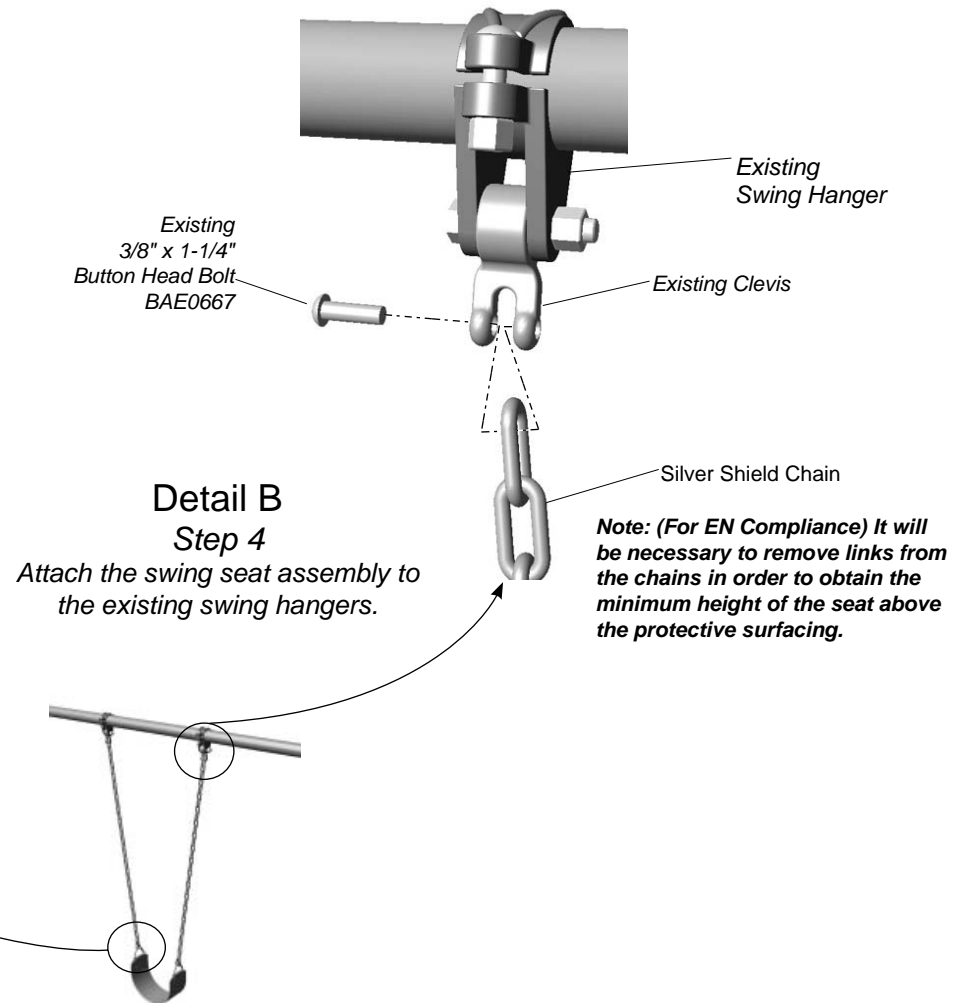
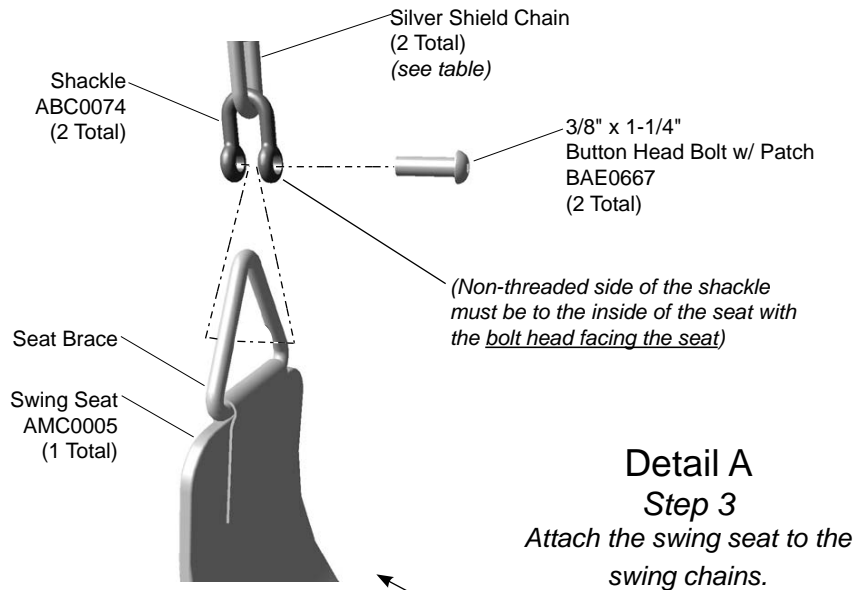
Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)





# Installation Instructions

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



Model Number	Swing 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 SWING 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 SWING 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 SWING 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



### 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.

## Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



# 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 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: \_\_\_ / \_\_\_ / \_\_\_





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing 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

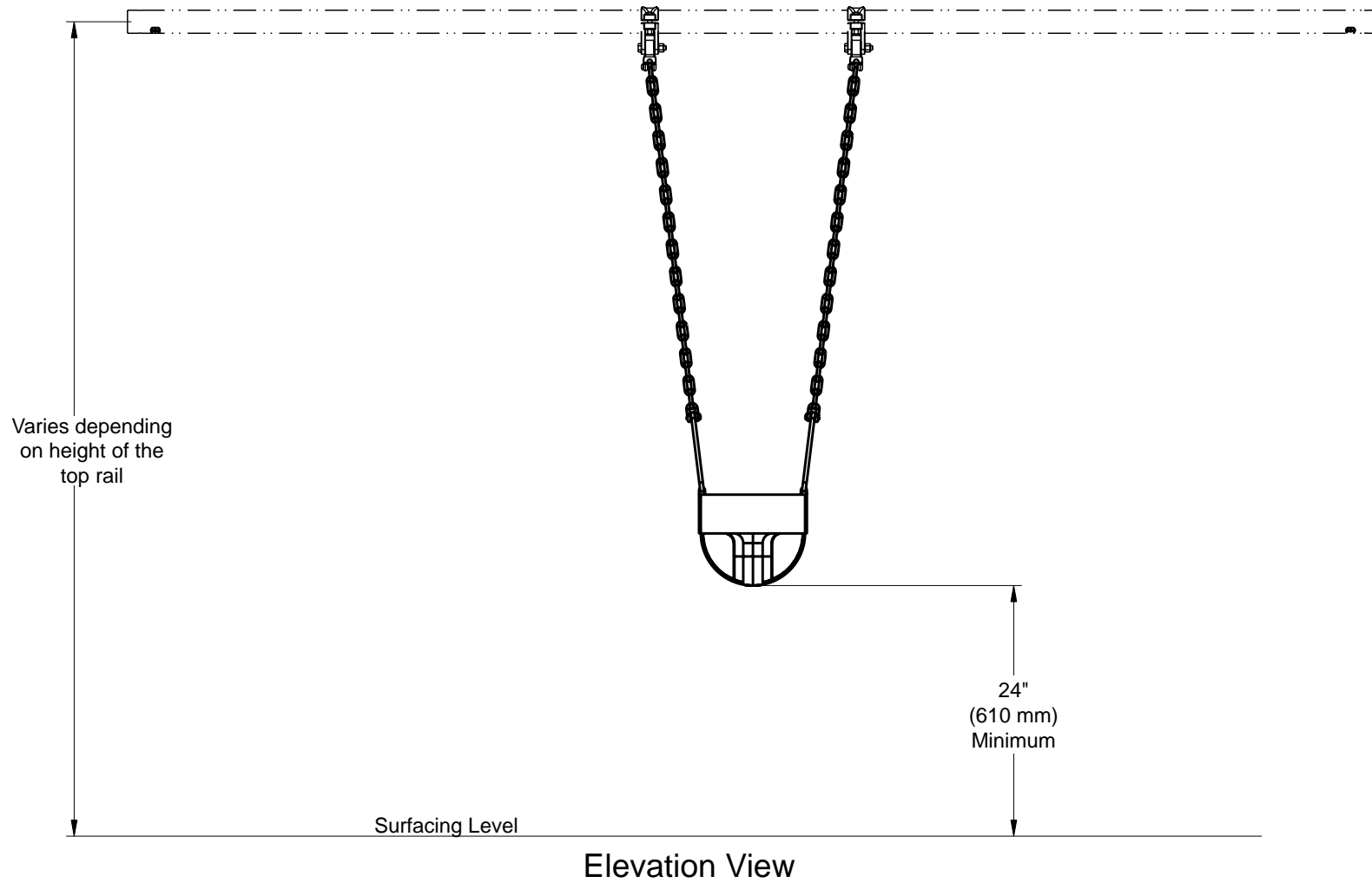
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

### ICON KEY



Fully Tighten  
Hardware

# Installation Instructions

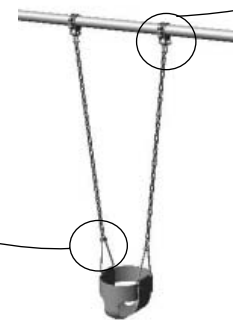
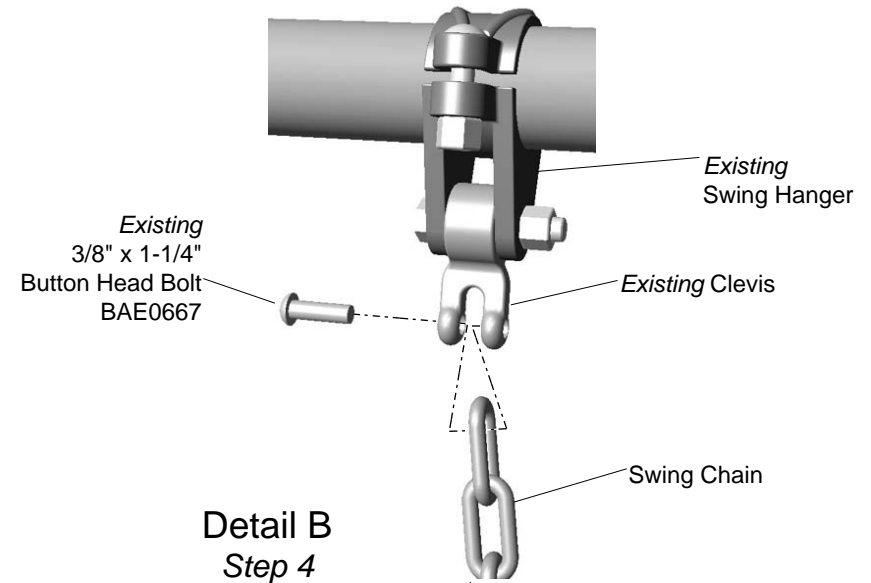
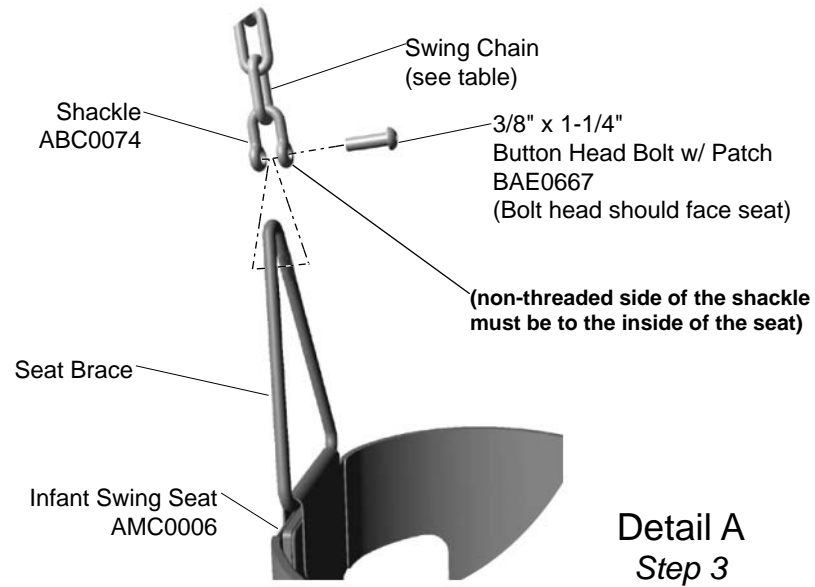


Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)



# 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	Swing 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

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**\_\_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.

## ZZXX0325 - INFANT SWING SEAT WITH SWING 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 Swing	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 SWING 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 Swing	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 SWING 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 Swing	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 Swing Chain



**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](http://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!

<b>INSPECTION CHECKLIST</b>	<b>Frequency</b>	<b>Inspection Code</b>	<b>Date</b>	<b>Date Repairs Completed</b>
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

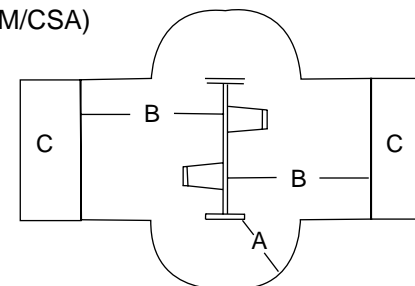
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

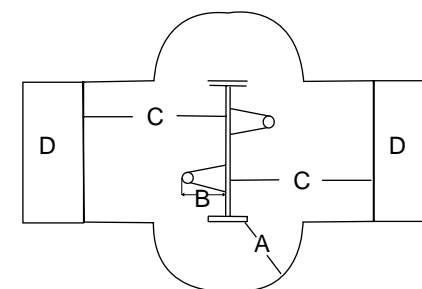
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of 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

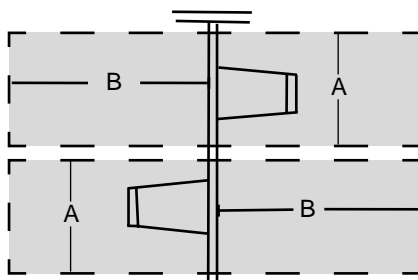
## (EN)

- 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 absorbency. 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

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- 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.

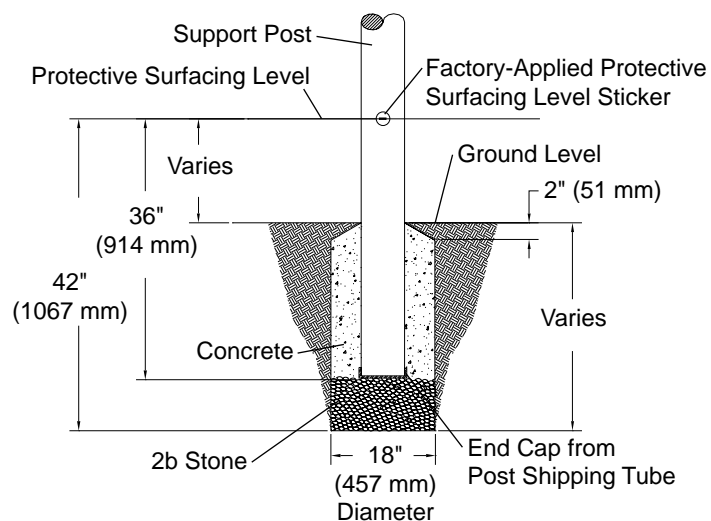
## Maintenance

- 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.

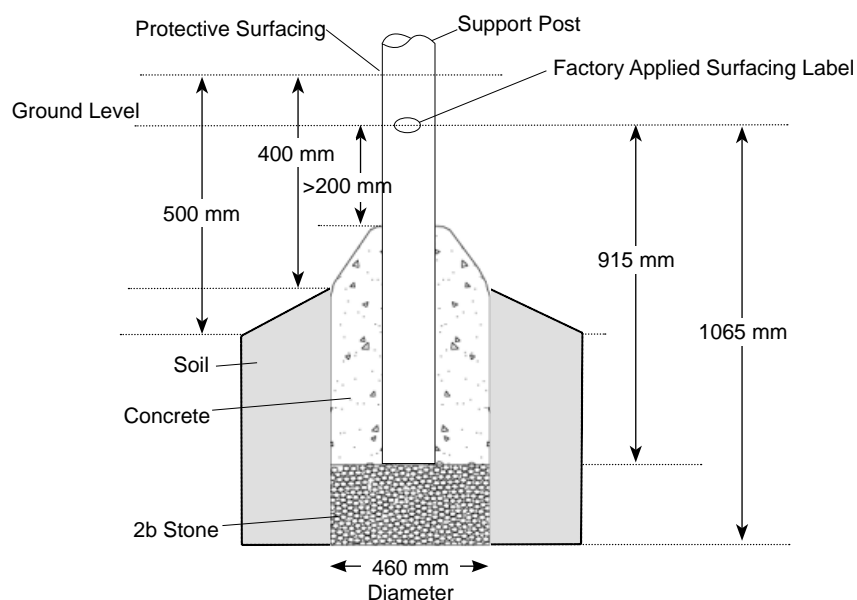
# Installation Instructions



Support Post Footing Detail (ASTM/CSA)

## FOOTING 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.



Footing Detail Support Post (EN)



Assembly View (representative model)

## Installation Instructions


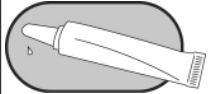

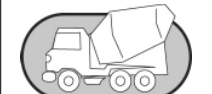



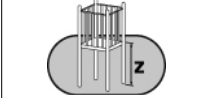
Playworld Systems® Model XX0287  
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing  
8 ft. (2438 mm) Top Rail

### 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.*

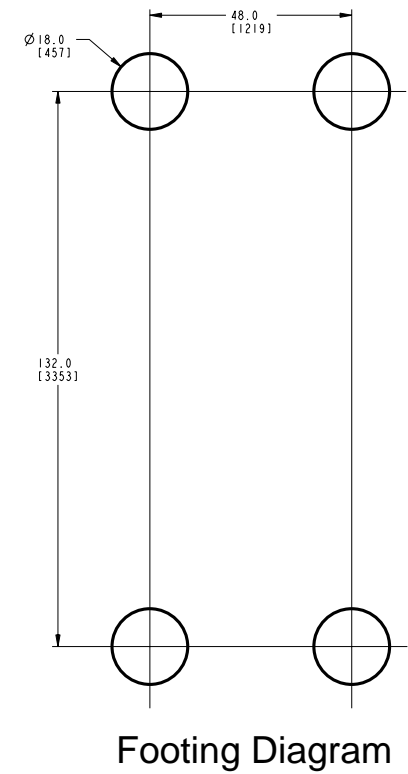
### ICON KEY

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

## Page 6 of 14

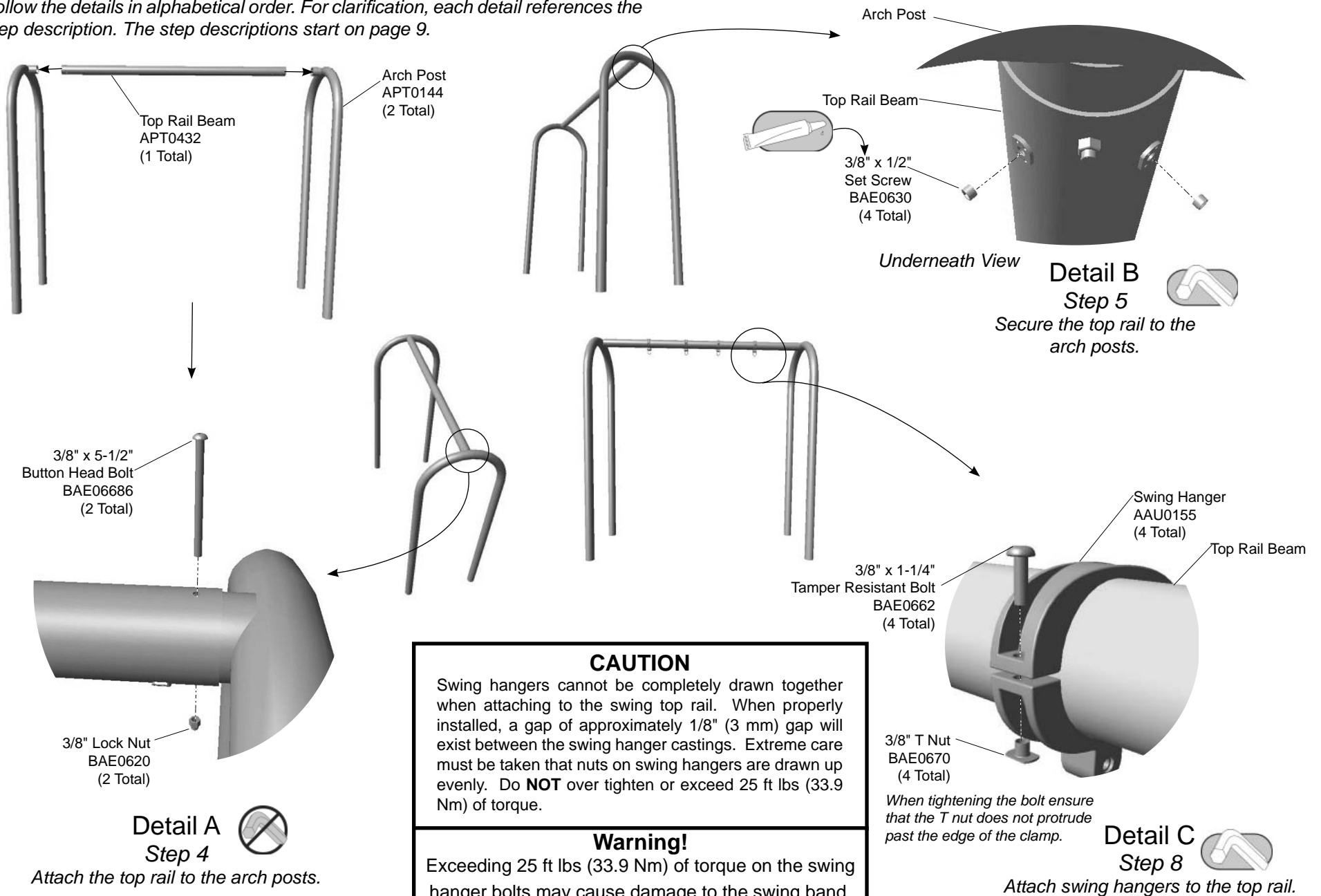
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

**Critical Fall Height**  
EN: belt seat - 1390 mm (mounted as shown)  
tot seat - 1545 mm (with seat at 610 above surfacing)

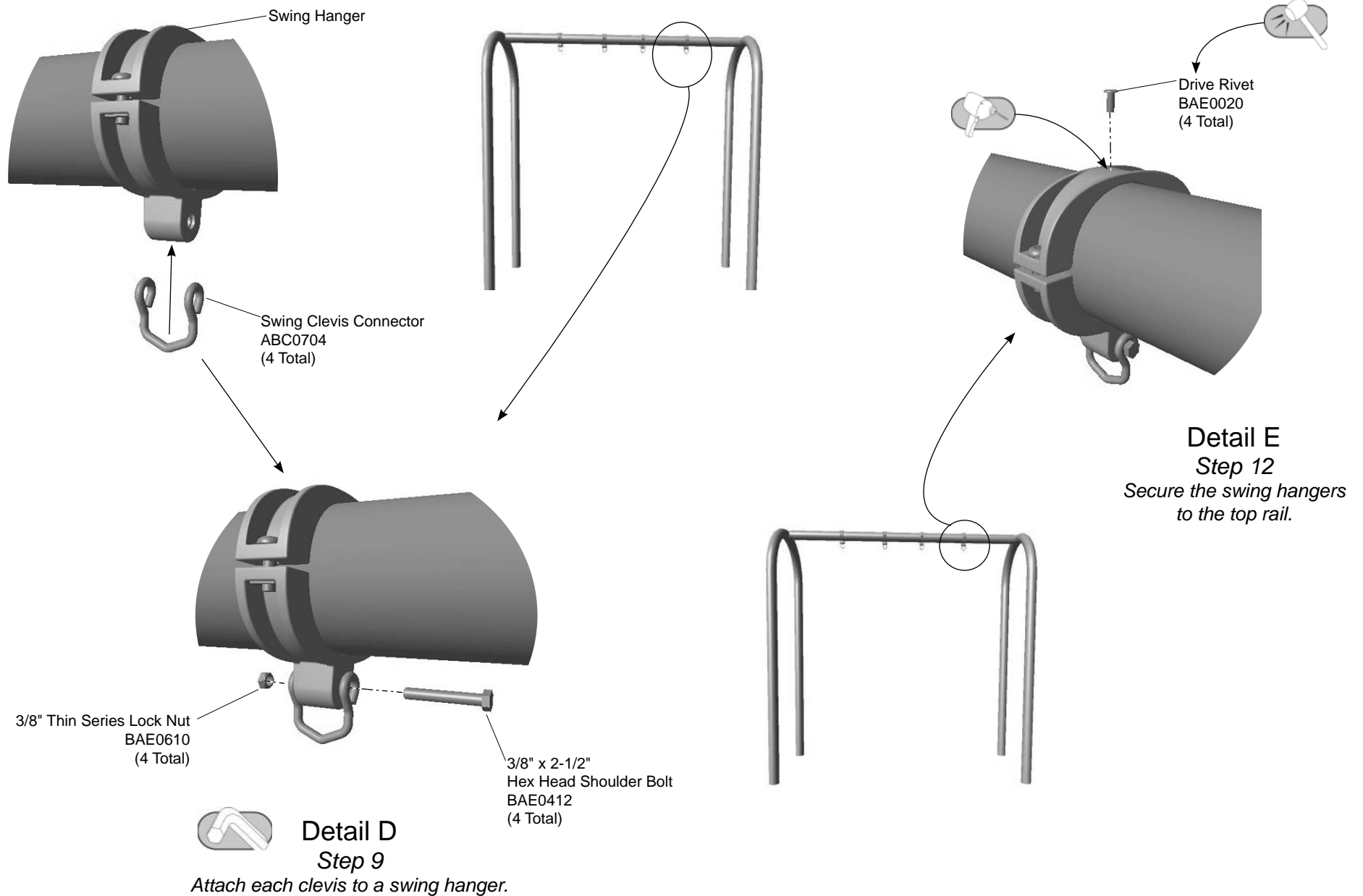


# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



# Installation Instructions





# Installation Instructions

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**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

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**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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.

# 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

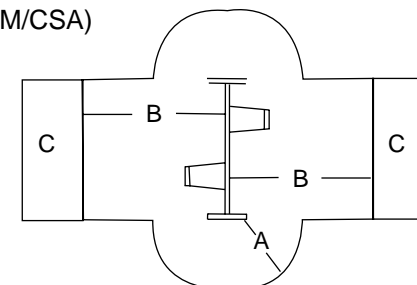
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

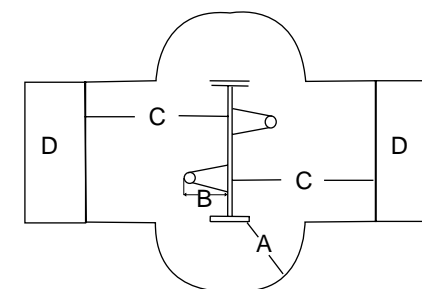
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

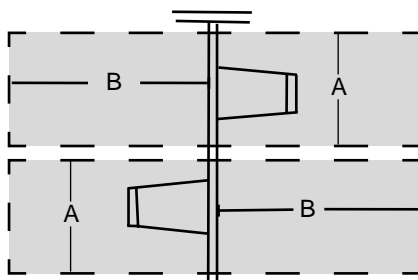
## (EN)

- 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 absorbency. 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

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- 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.

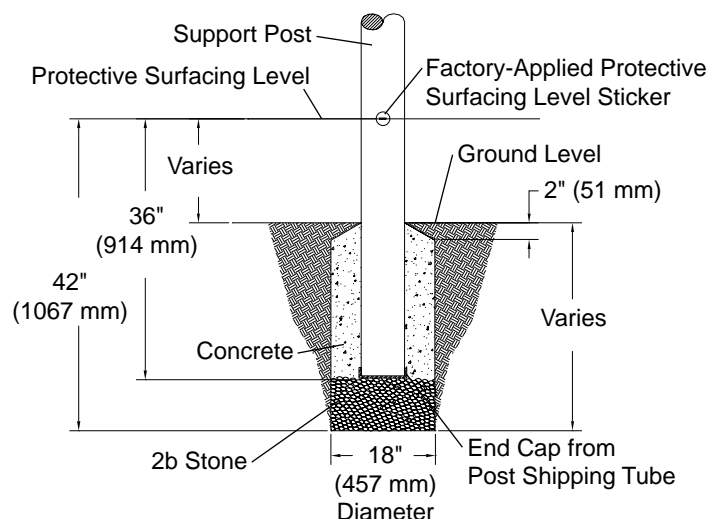
## Maintenance

- 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.

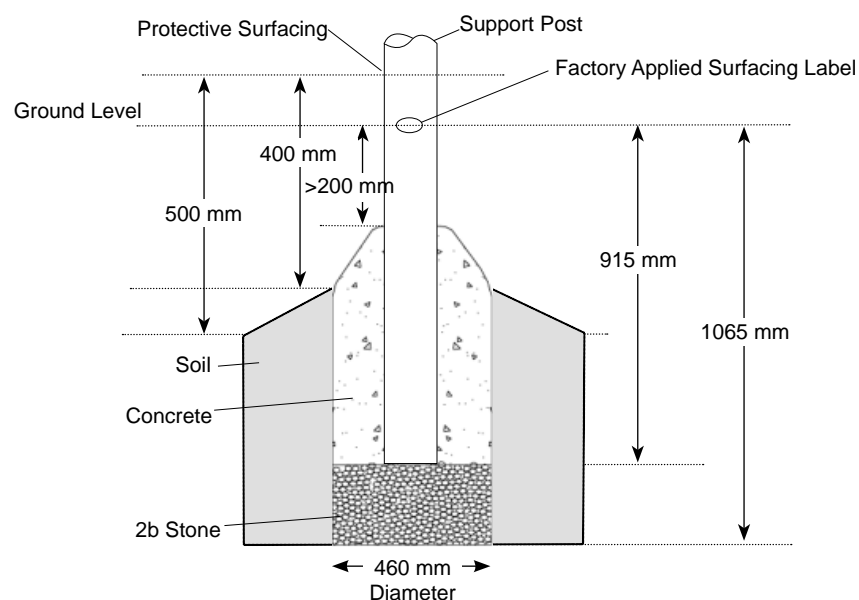
## Supervision Guidelines

- 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.



Assembly View

## Installation Instructions




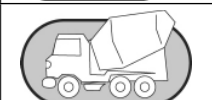



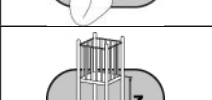
Playworld Systems® Model XX0370  
5 in. (127 mm) O.D. Aluminum Arch Swing  
2-Unit Add-A-Bay

### 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.*

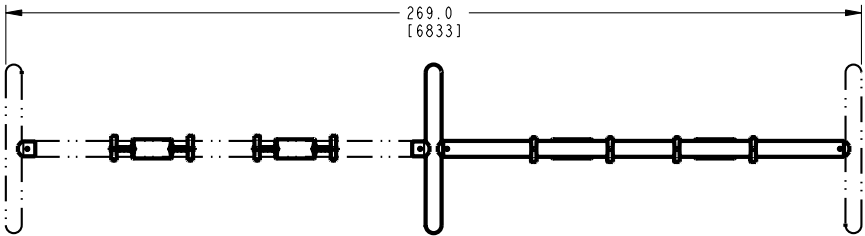
### ICON KEY

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

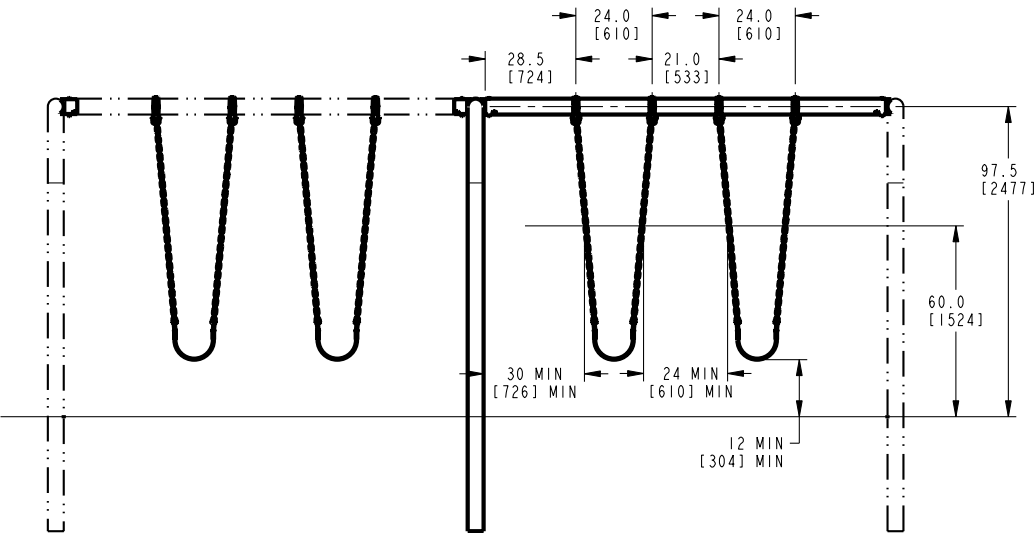
# Installation Instructions

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

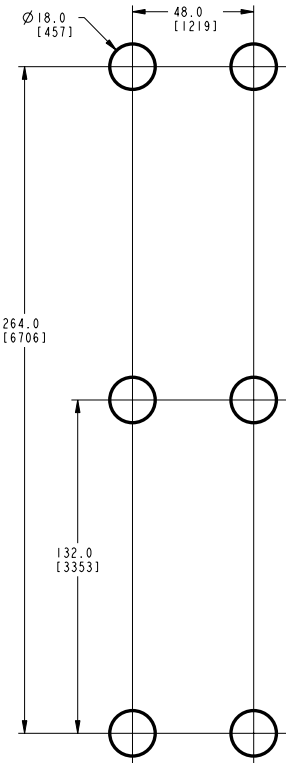
Top View



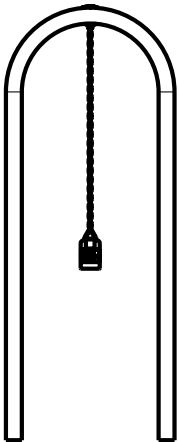
**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

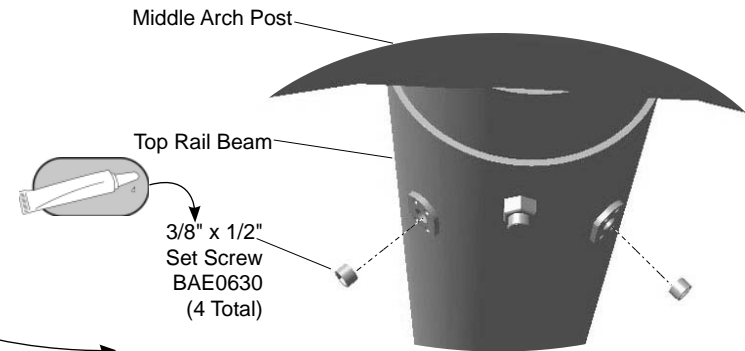
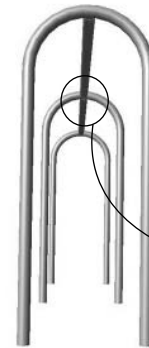
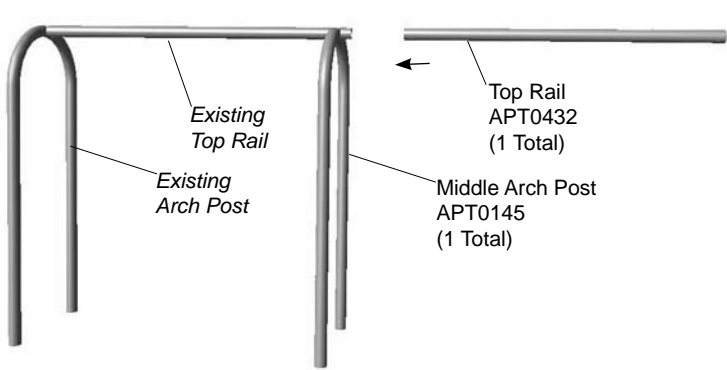


Footing Diagram



# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

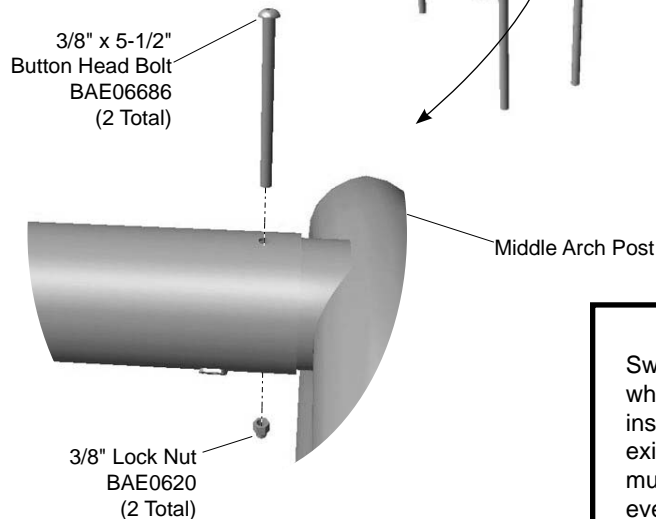


Underneath View

Detail B

Step 7

Secure the top rails to the middle arch post.



Detail A

Step 5

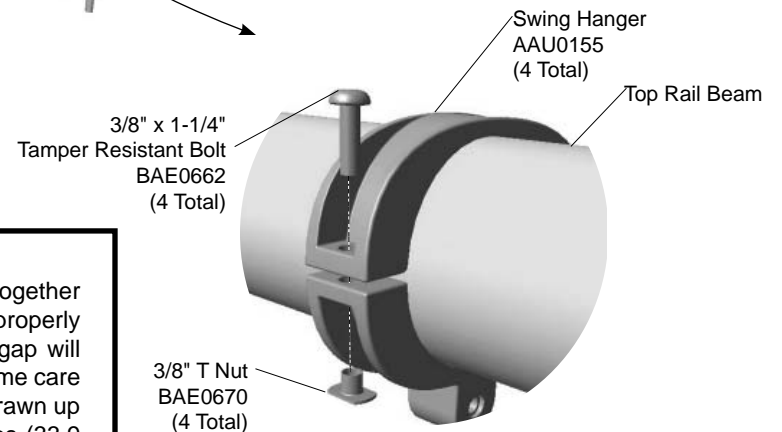
Attach both top rails (new and existing) to the middle arch support.

## 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.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

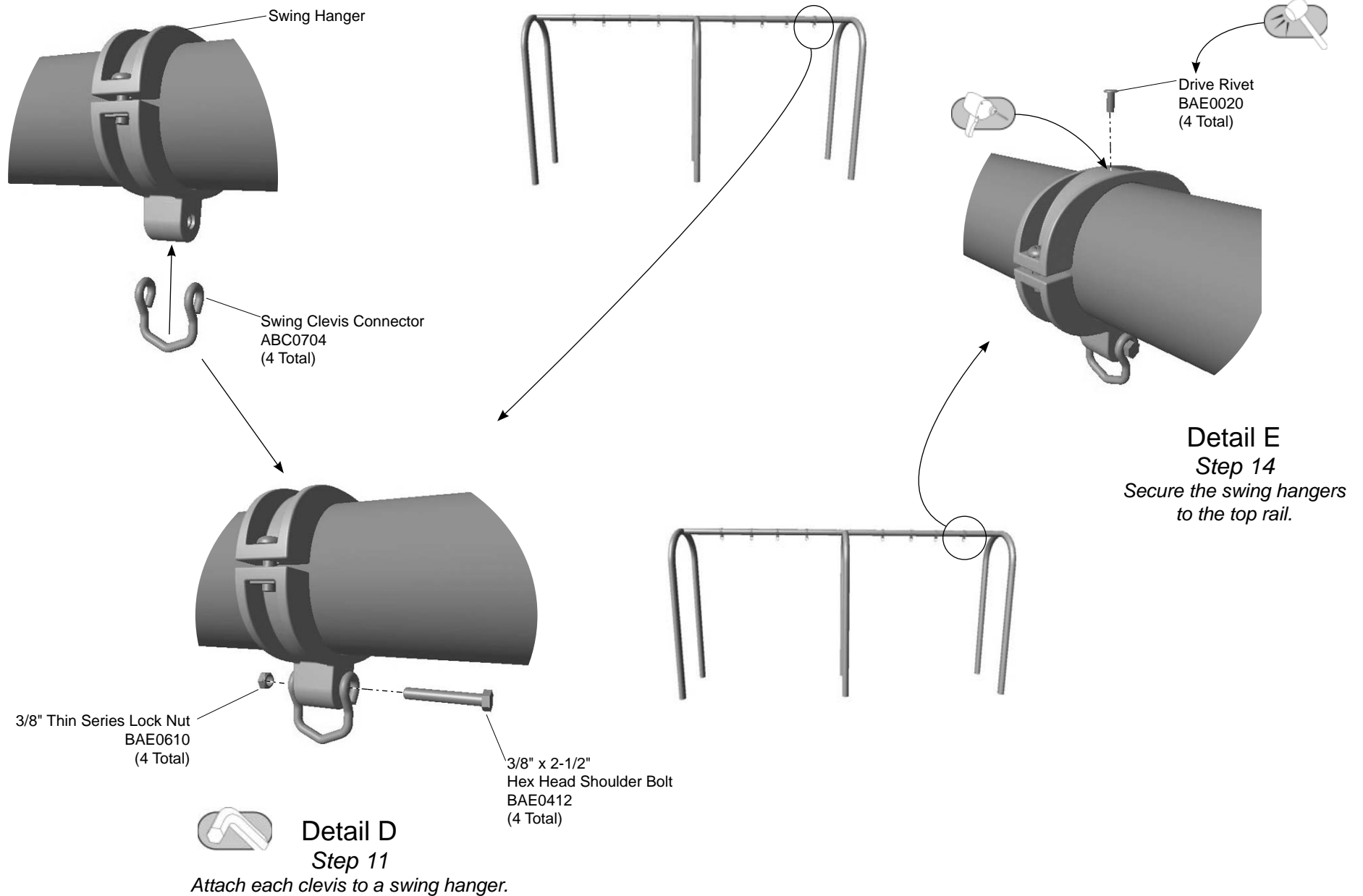
Detail C

Step 10

Attach swing hangers to the top rail.



# 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:** 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 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 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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.

# 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: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



# WALTHAM PARK

MADISON, WI

OPTION #1

**LR**  
**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

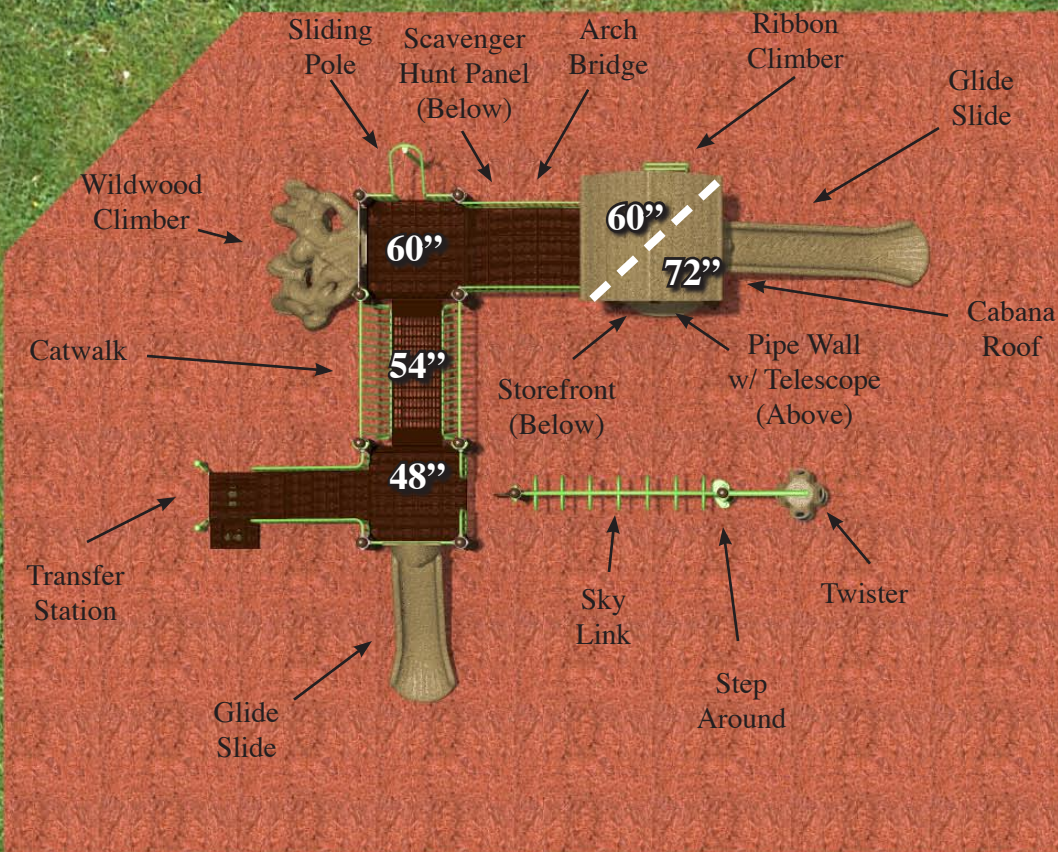




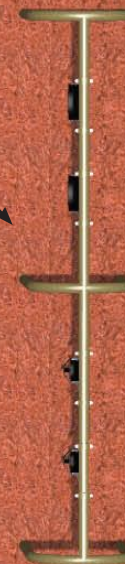
# WALTHAM PARK

MADISON, WI

OPTION #1



2-Bay  
Arch Swings  
(2 Belt Seats,  
2 Tot Seats)



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: PW121514

Use Zone:

# of Users: 49

# of Active Play Events: 17

Age: 5 to 12

Colors Shown:



Chocolate



Brownstone

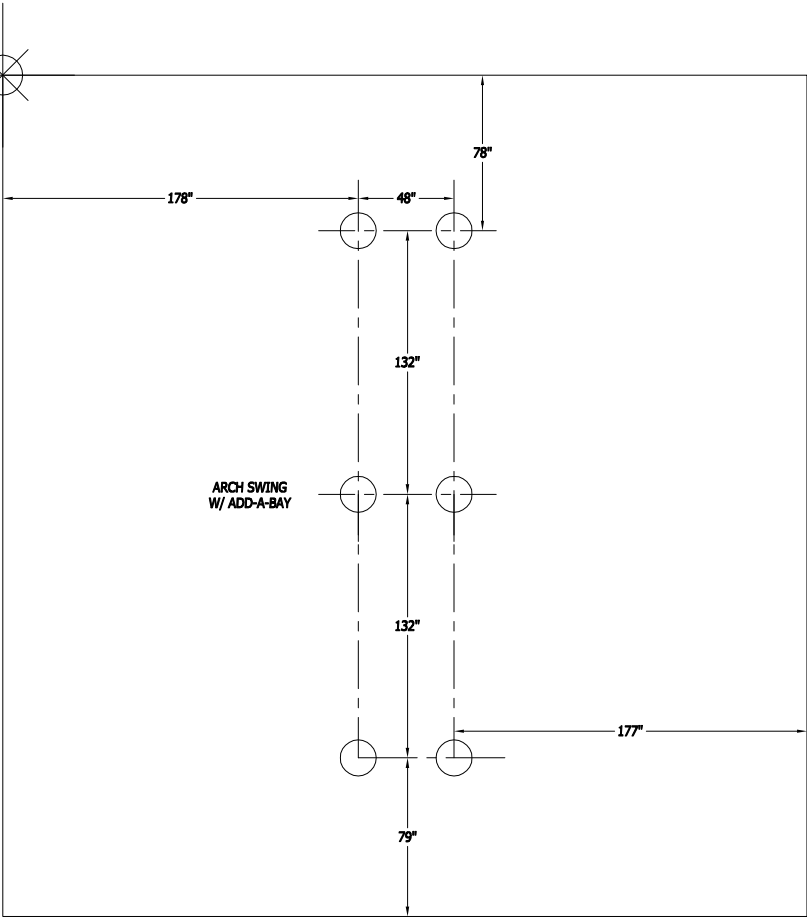
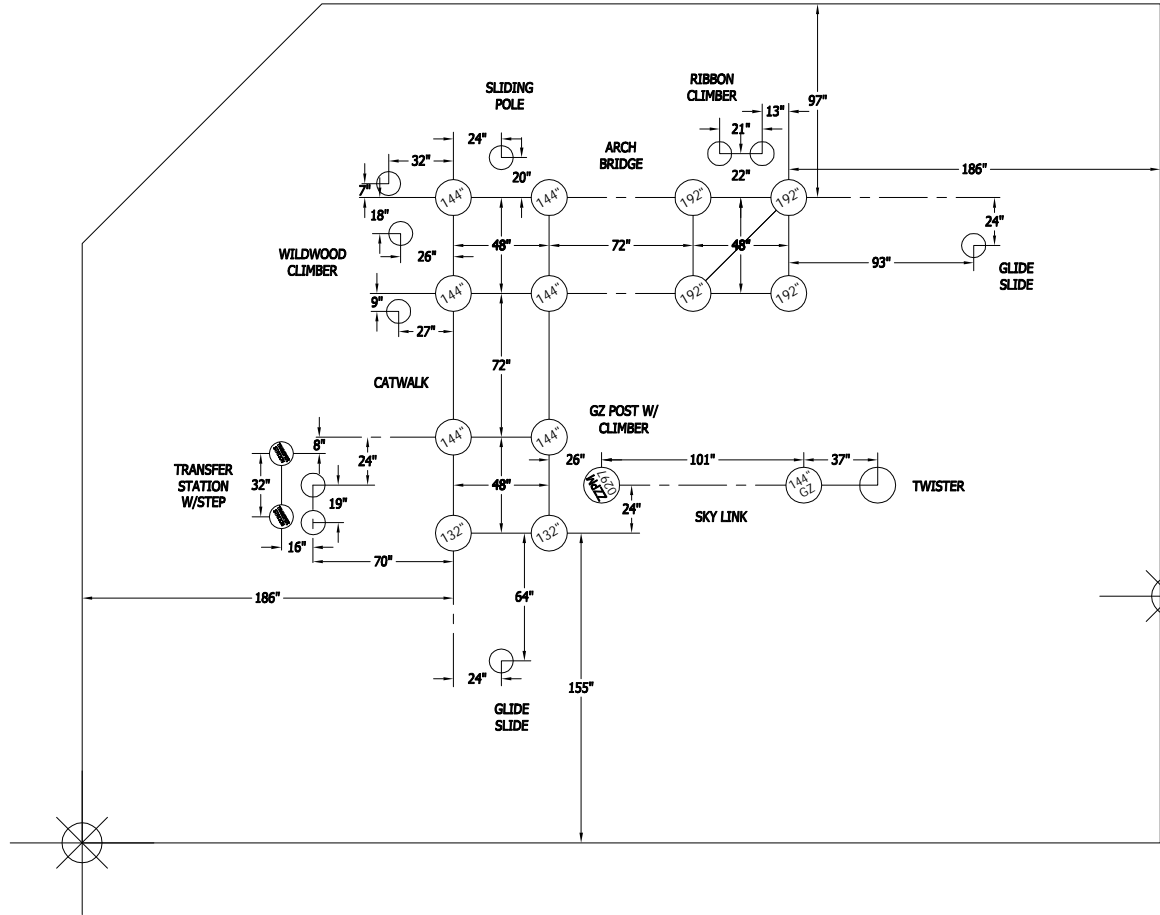


Lime





\*Playground Supervision Required



PROJECT NO: <b>WALT1-2.LEE</b>	REV: -	DATE: <b>09-JAN-15</b>
SYSTEM: <b>PLAYMAKERS</b>	SCALE: <b>1/8" = 1'-0"</b>	
FOOTING PLAN	DRAWN BY: <b>DANA GRUBBS</b>	

LEE RECREATION  
809 Bluebird Pass  
Cambridge, WI 53523

**PLAYWORLD**<sup>TM</sup>

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FOOTING LEGEND

- = COMPONENT FOOTING (DETAIL 3)
- = SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
- = SUPPORT POST FOOTING (DETAIL 1 or 4)  
(112" (2845mm) INDICATES POST LENGTH)
- = CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2)  
(ZCCH1850 INDICATES PART NUMBER)
- = GROUND ZERO POST FOOTING (DETAIL 2)  
(144" (3658mm) INDICATES POST LENGTH)

WALTHAM 1-2

FOOTINGS ONLY



## Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,  
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,  
PM0078A, PM0128A, PM0266A, PM0268A  
Aluminum Support Post w/ Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

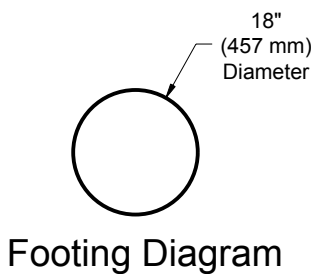
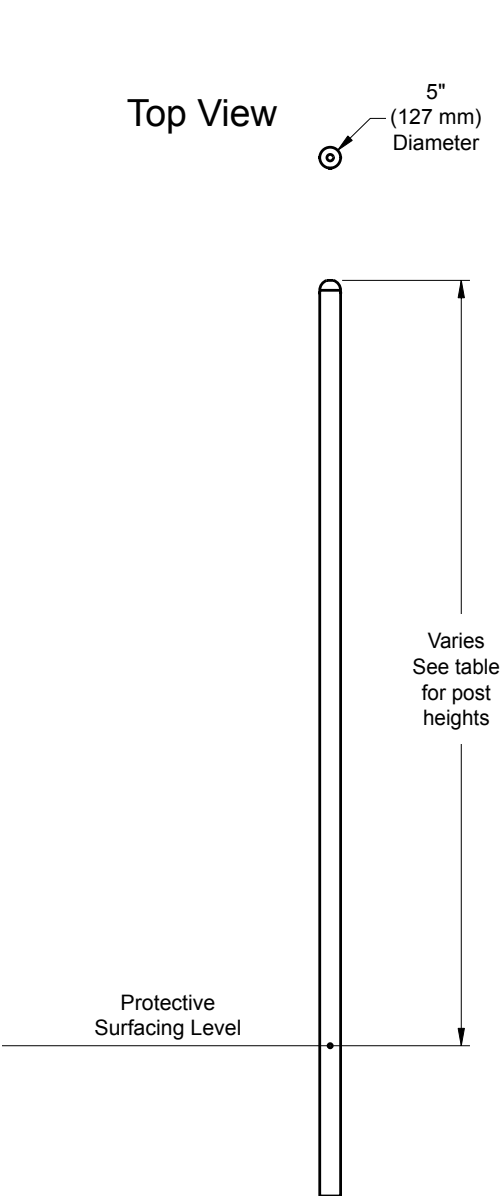


Assembly View (*representative model*)

## 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



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 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

## PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

## PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

## 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)

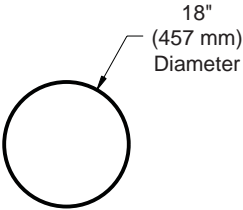
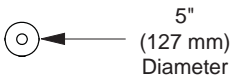
## Installation Preparation

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)

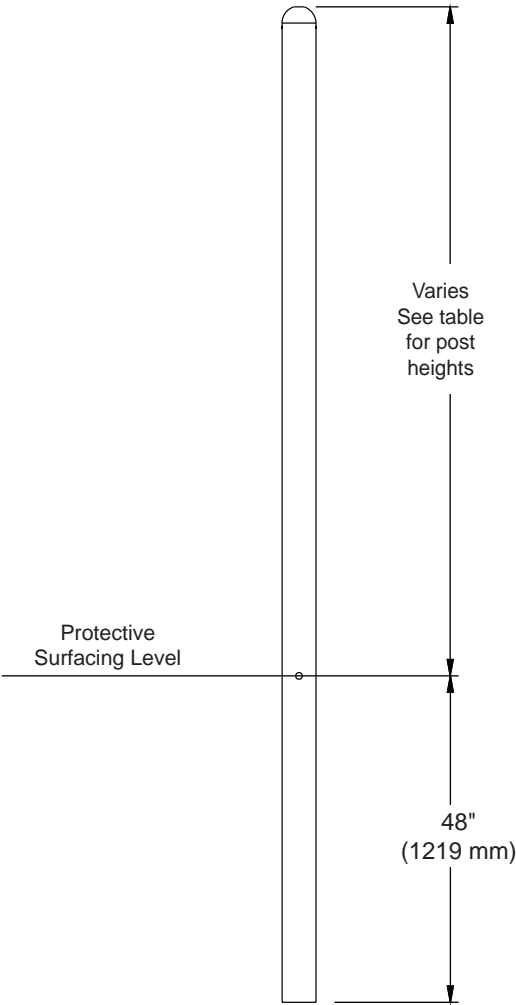


# Installation Instructions

Top View



Footing Diagram



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.

## 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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Assembly View *(representative model)*

## Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A

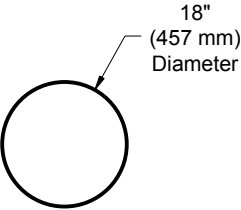
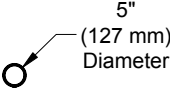
Aluminum Support Post w/o Cap  
96 in. (2438 mm) to 229 in. (5817 mm)

## Installation Preparation

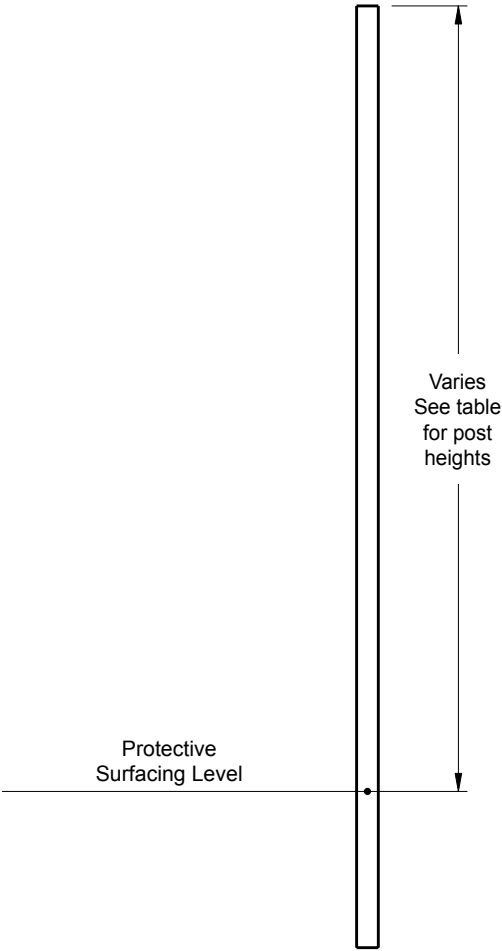
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... (refer to table on the next page)  
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

# Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 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

## PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

## PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



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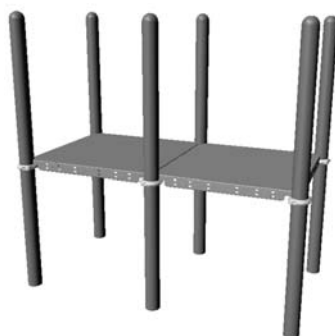




## Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616  
Square Deck



ZZPM0629  
Long Deck

Assembly View

### Installation Preparation

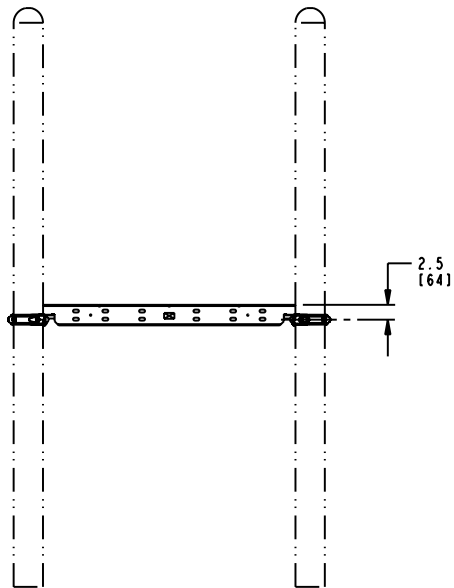
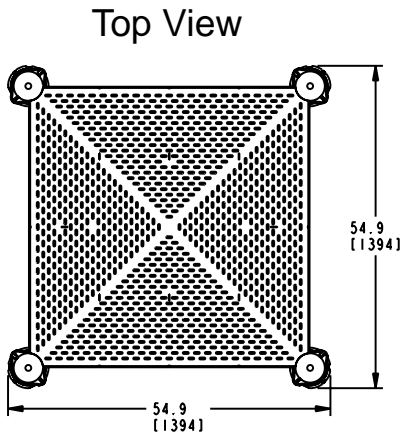
Recommended Crew (PM0616):..... Two (2) adults  
Recommended Crew (PM0629):..... Four (4) adults  
Installation Time (PM0616): ..... 1 man-hour  
Installation Time (PM0629): ..... 2 man-hours  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

### ICON KEY

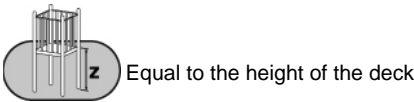
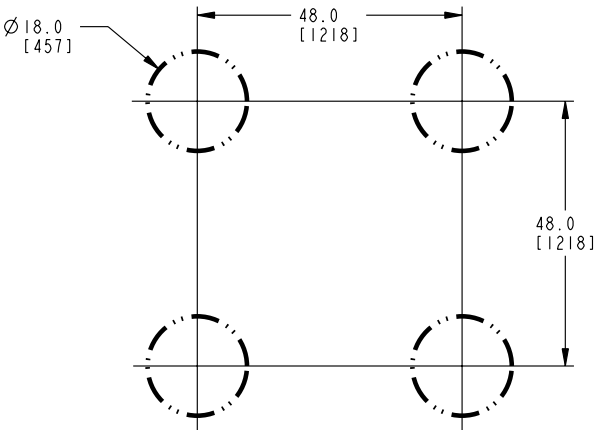
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

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

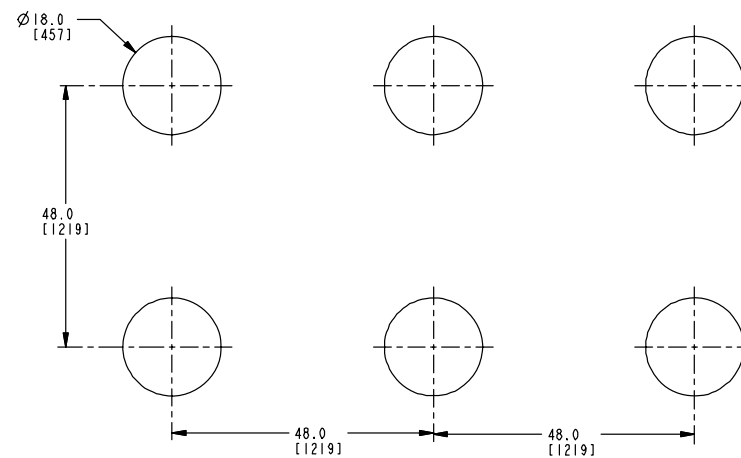
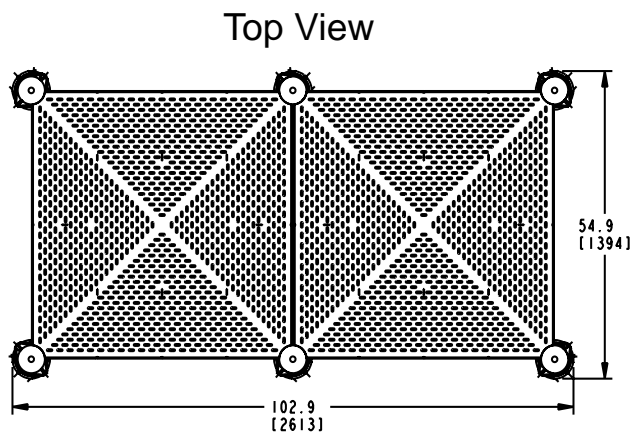


Elevation View  
Model PM0616

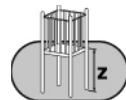
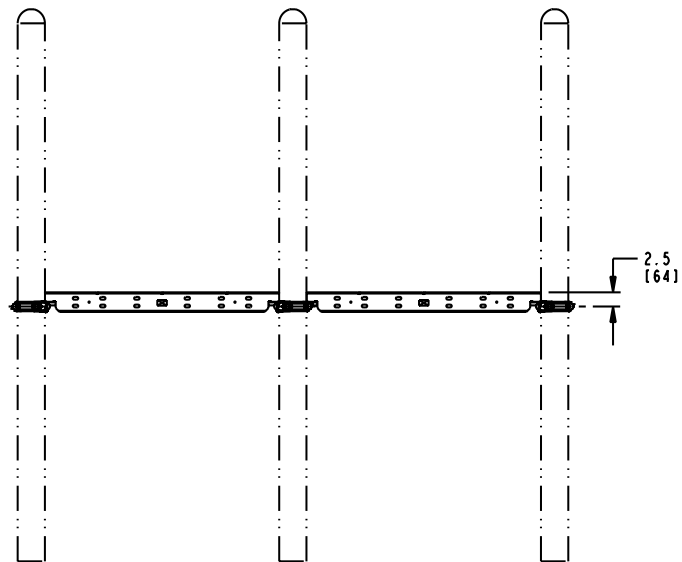


# Installation Instructions

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



Footing Diagram



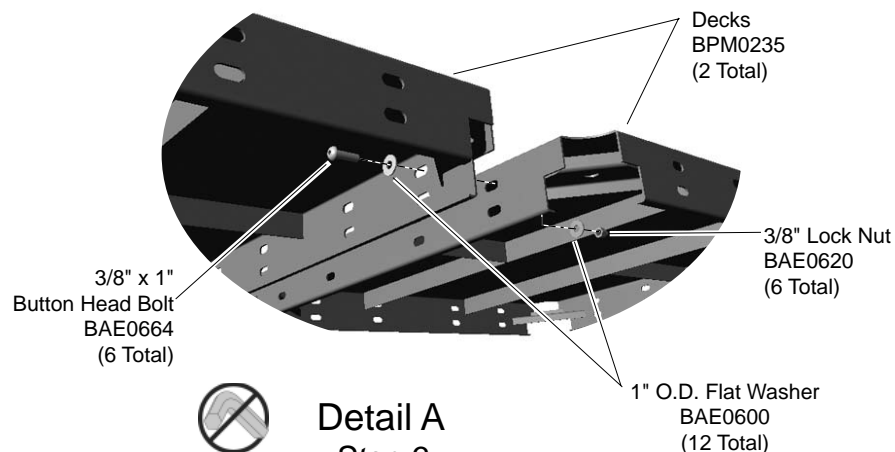
Equal to the height of the deck

Elevation View  
Model PM0629

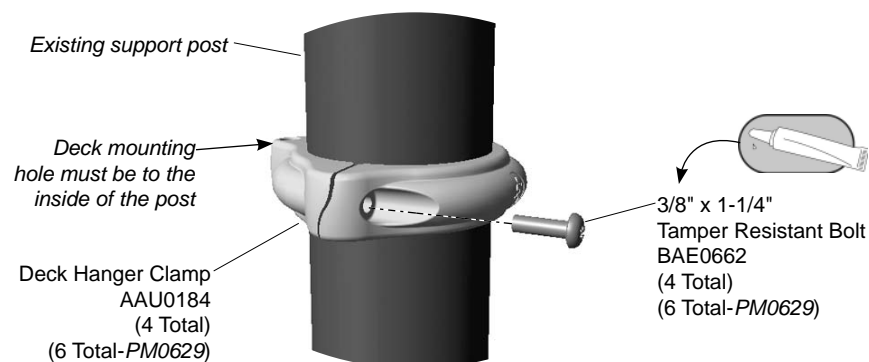


# Installation Instructions

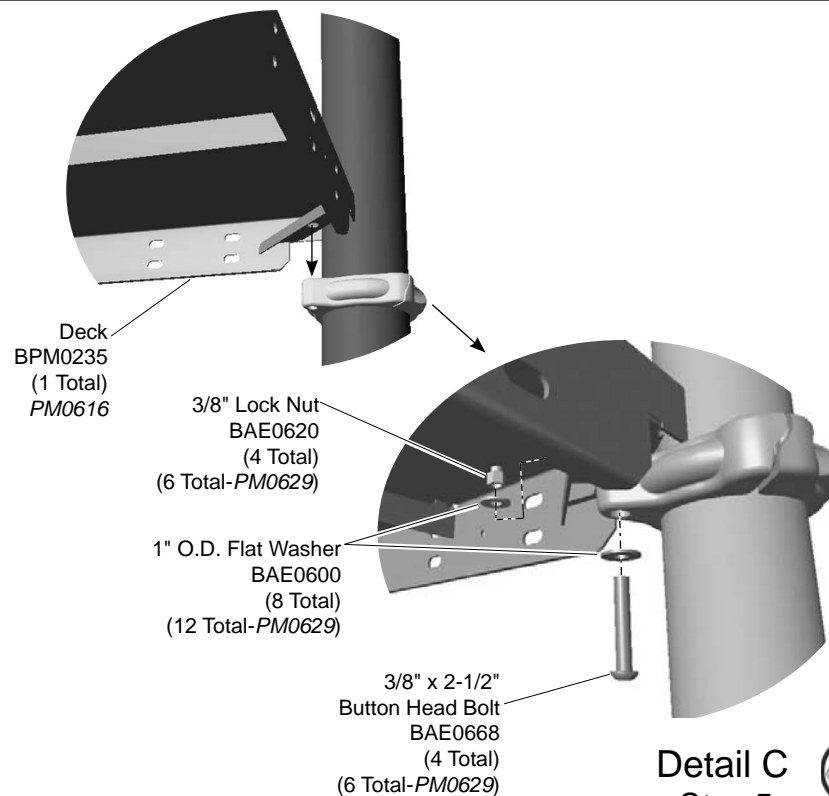
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



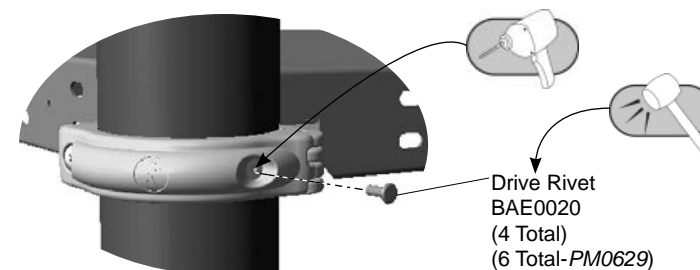
**Detail A**  
**Step 3**  
*(Model PM0629 Only)*  
Attach the two decks together.



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



**Detail C**  
**Step 5**  
Attach the decks to the clamps.



**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
BPM0235	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
BPM0235	PLATFORM - PM SQUARE PERF	2



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## Installation Instructions

Playmakers® PM0617, and PM0639  
Triangular and 45 Degree Tri-Deck  
Coated Perforated Decks



ZZPM0617  
Triangular Deck



ZZPM0639  
45 Degree Tri-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

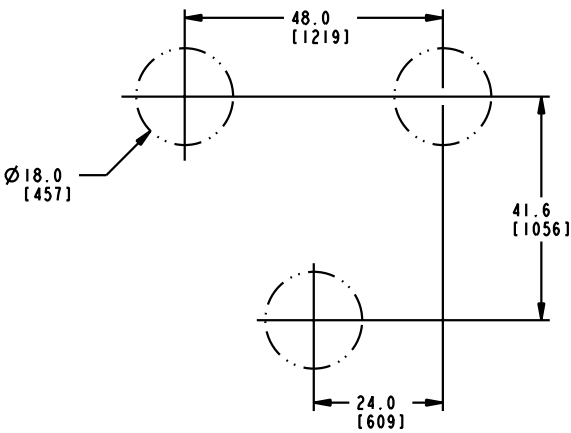
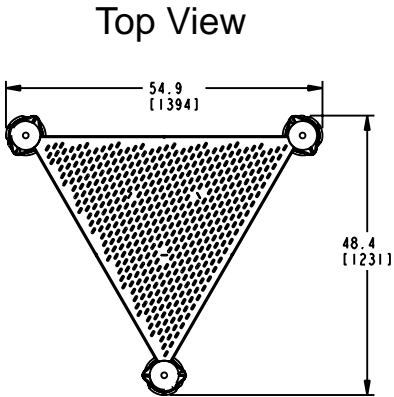
### ICON KEY

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

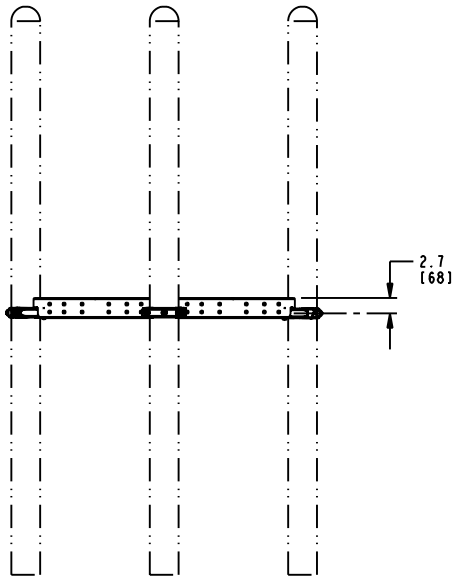


# Installation Instructions

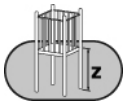
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View  
Model PM0617

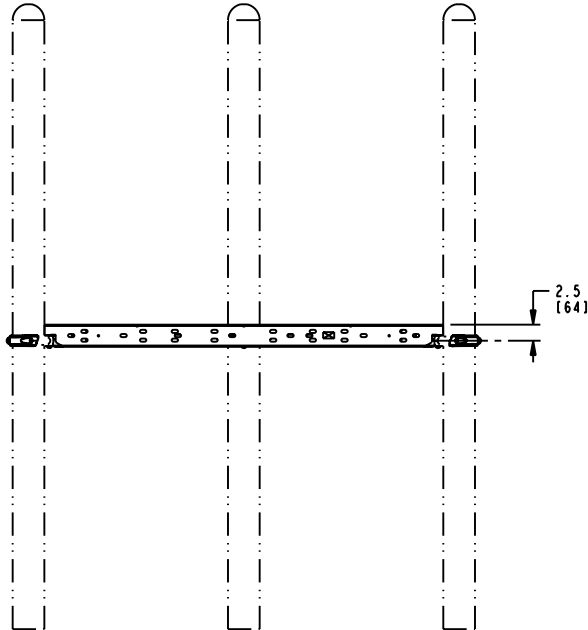
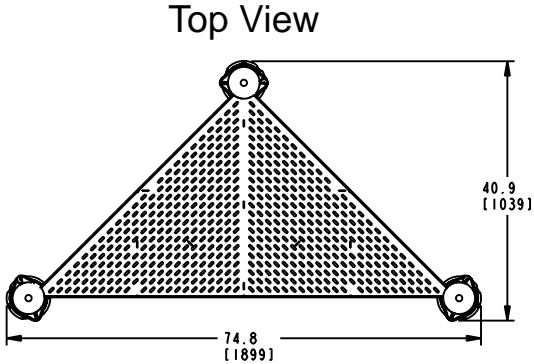


Equal to the height of the deck

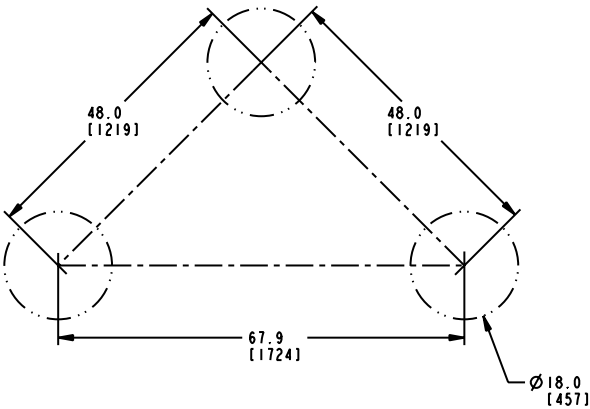


# Installation Instructions

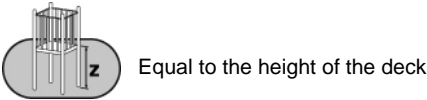
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View  
Model PM0639

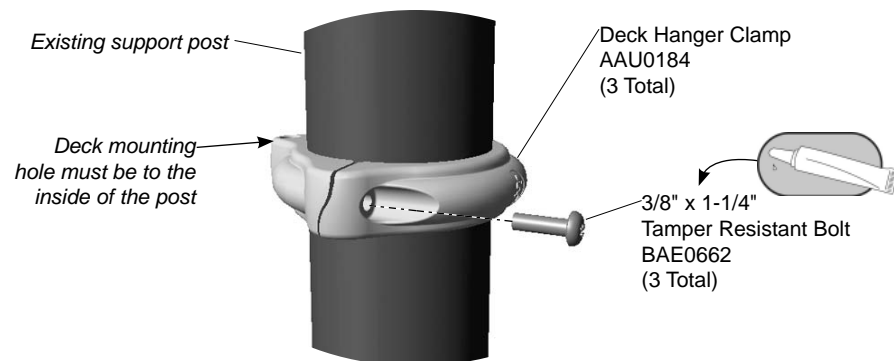


Footing Diagram



# Installation Instructions

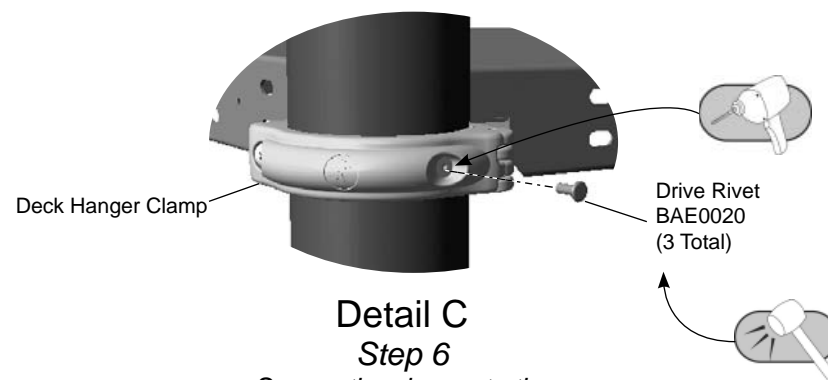
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



## Detail A

### Step 3

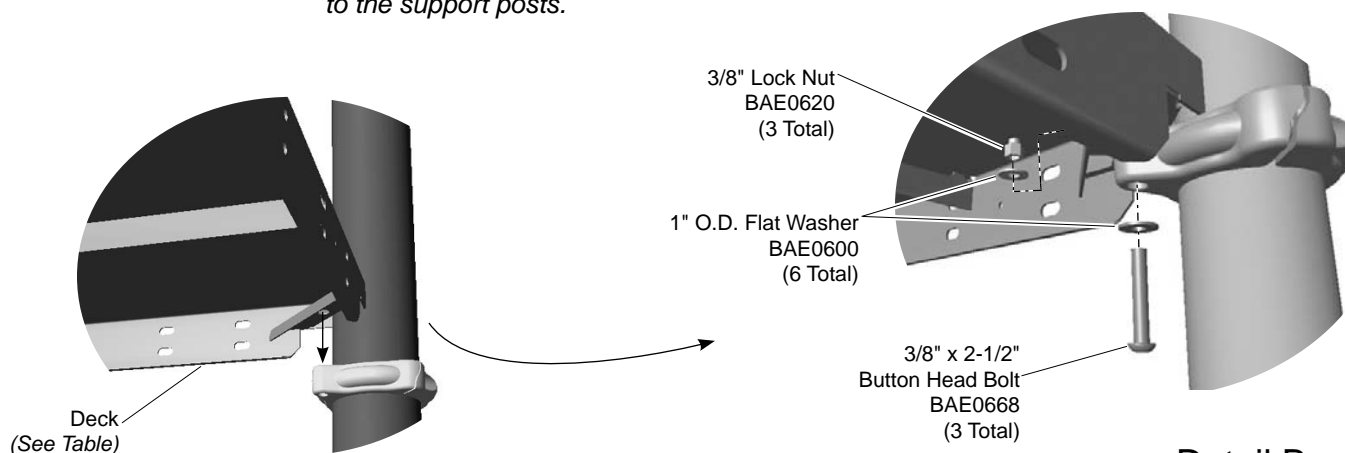
Attach the deck hanger clamps to the support posts.



## Detail C

### Step 6

Secure the clamps to the support posts.



## Detail B

### Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

# 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**. 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**. 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
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

## PM0639 - 45 DEGREE TRI-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
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Model	Weight
ZZPM2517	9.6 lbs. (4.3 kg)
ZZPM2537	16.3 lbs. (7.4 kg)

## Installation Instructions

Playmakers® Model PM2517 and PM2537

6 in (152 mm) and 12 in (305 mm)

45 Degree Tri Deck Kickplate

### Installation Preparation

Recommended Crew: ..... One (1) adults

Installation Time: ..... 0.25 man-hours

Weight: ..... (refer to table)

### ICON KEY



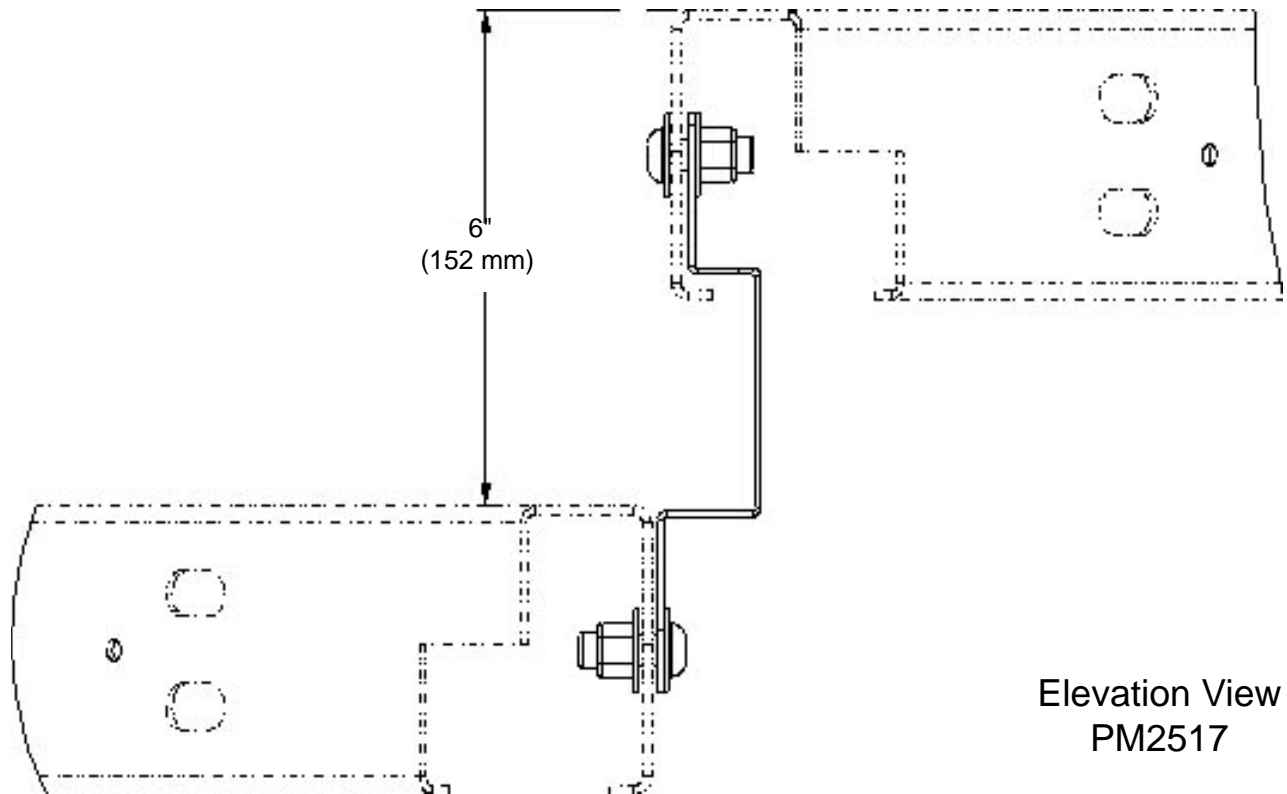
Fully Tighten  
Hardware



Do **Not** Fully Tighten  
Hardware

# Installation Instructions

---

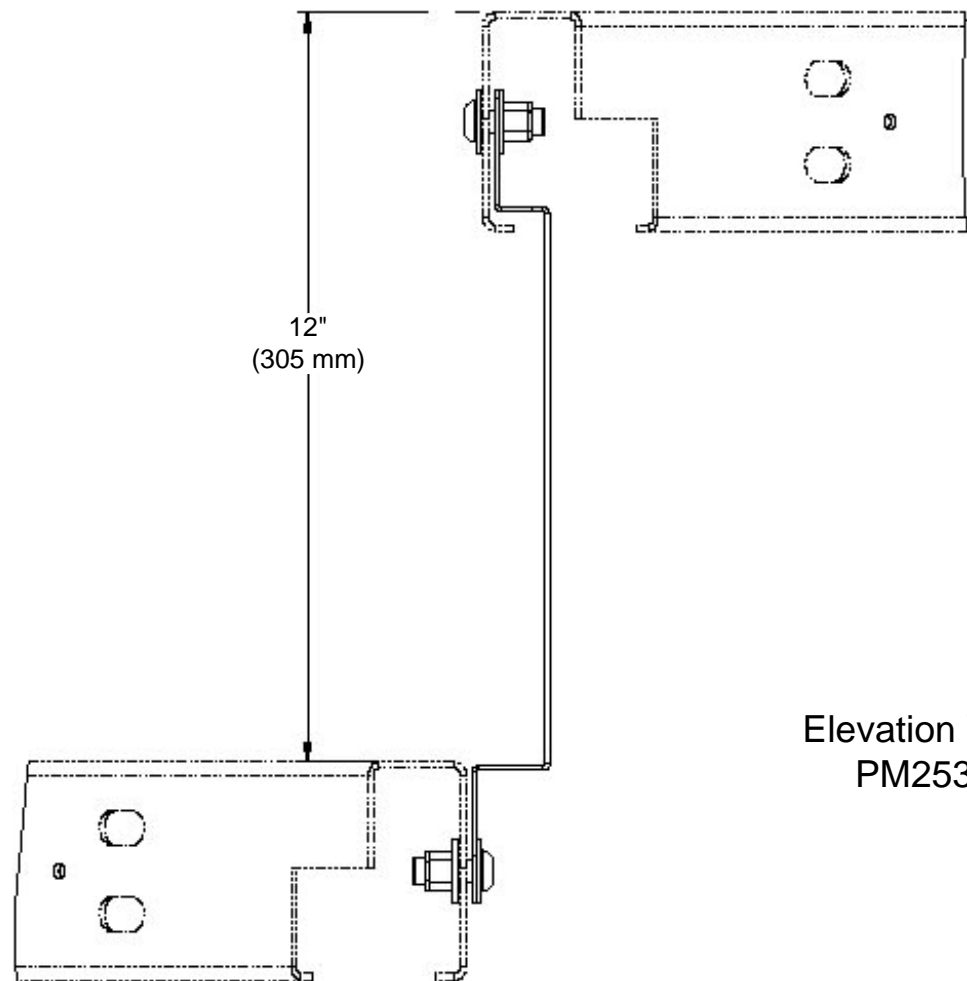


Elevation View  
PM2517



# Installation Instructions

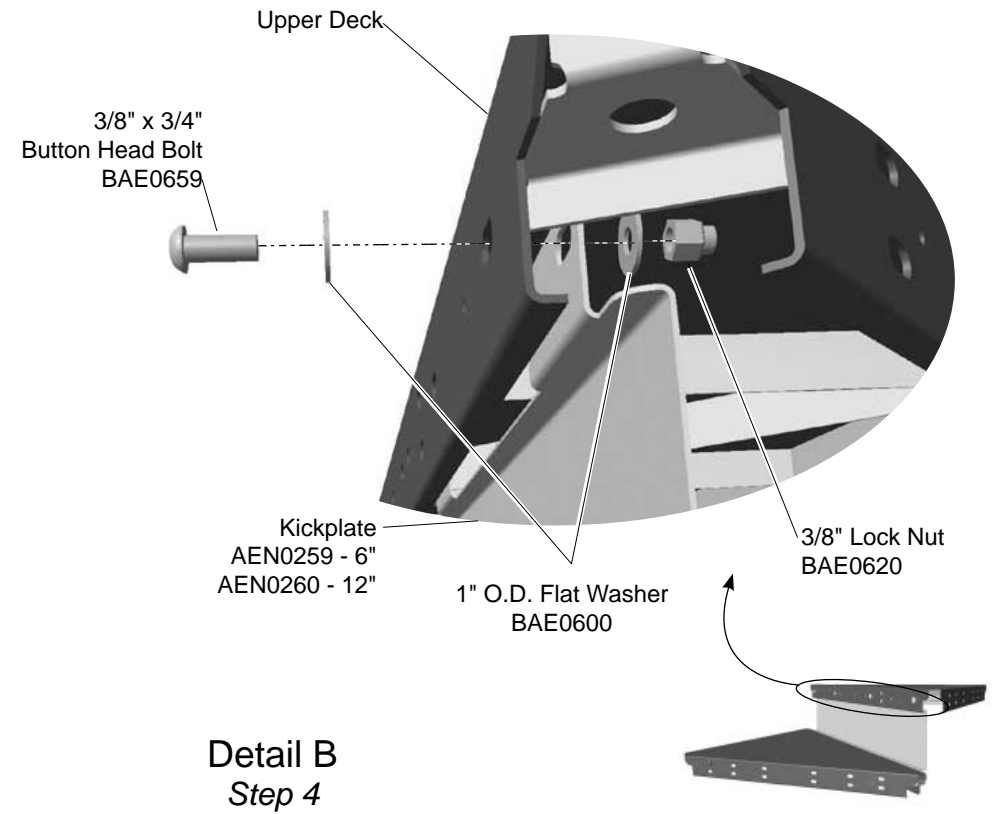
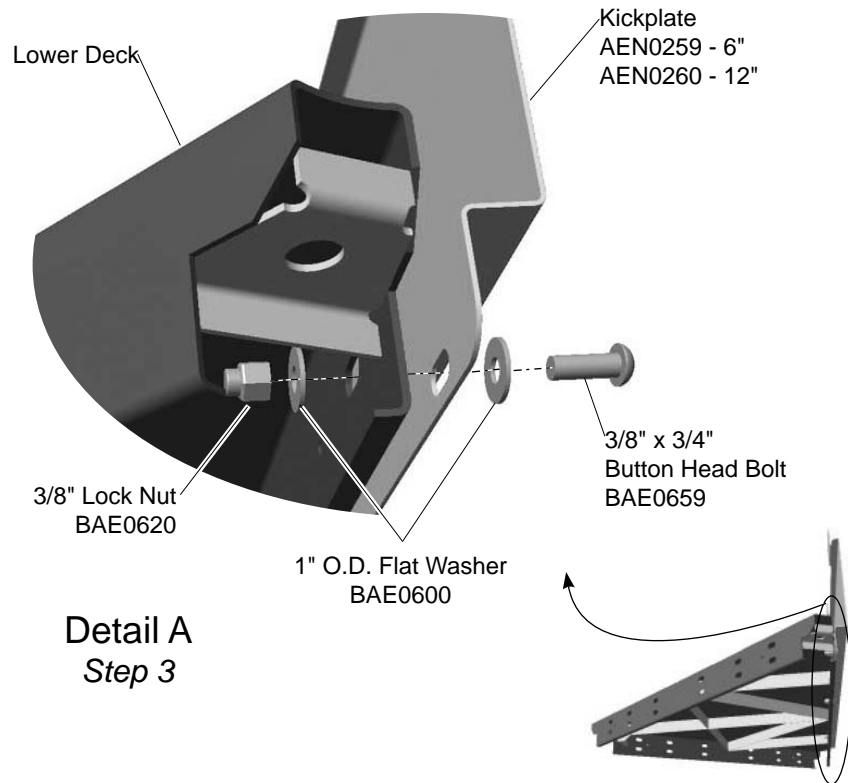
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Elevation View  
PM2537

# 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:** Attach the kickplate to the lower deck. **See Detail A.** Select the kickplate and appropriate hardware. There are (4) four connections. The kickplate must be attached to the *bottom* holes in the lower deck. Position the kickplate as shown in the **Elevation View** with the lip facing the lower deck.

\_\_\_ **Step 4:** Attach kickplate to the upper deck. See **Detail B** and **Elevation View**. Select the appropriate hardware. There are (4) four connections. Align the holes in the tabs with the *bottom* holes in the upper deck.

## **Final Details.**

\_\_\_ **Step 5 :** 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.

## PM2517 - 6 in (152 mm) 45 DEGREE TRI DECK KICK PLATE

PART NO.	DESCRIPTION	QTY.
AEN0259	KICKPLATE - 1.25" x 7.00" x 58.32"	1
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8

## PM2537 - 12 in (305 mm) 45 DEGREE TRI DECK KICK PLATE

PART NO.	DESCRIPTION	QTY.
AEN0260	KICKPLATE - 1.25" x 13.00" x 58.32"	1
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8



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Assembly View (representative model)

Installation Instructions  
Playmakers® Models PM2027 and PM2027S  
48 in. (1219 mm) Transfer Station  
In-Ground and Surface Mount

**Installation Preparation**

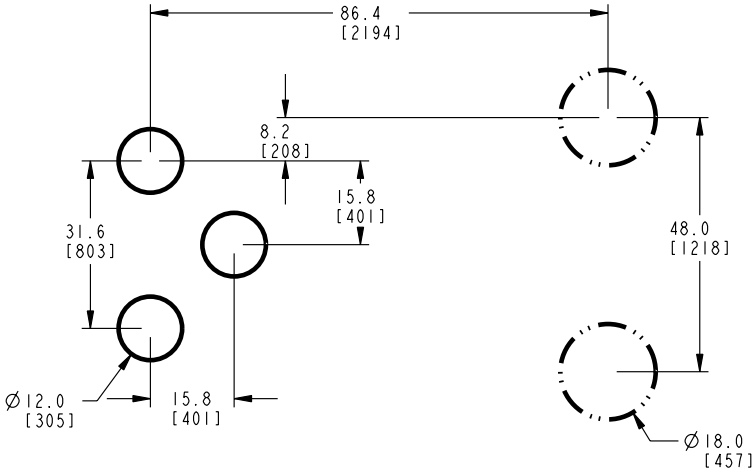
- Recommended Crew: ..... Two (2) adults  
Installation Time (In-Ground):..... 3 man-hours  
Installation Time (Surface Mount): ..... 1.5 man-hours  
Concrete Required: ..... 0.09 cubic yard (0,07 cubic meters)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

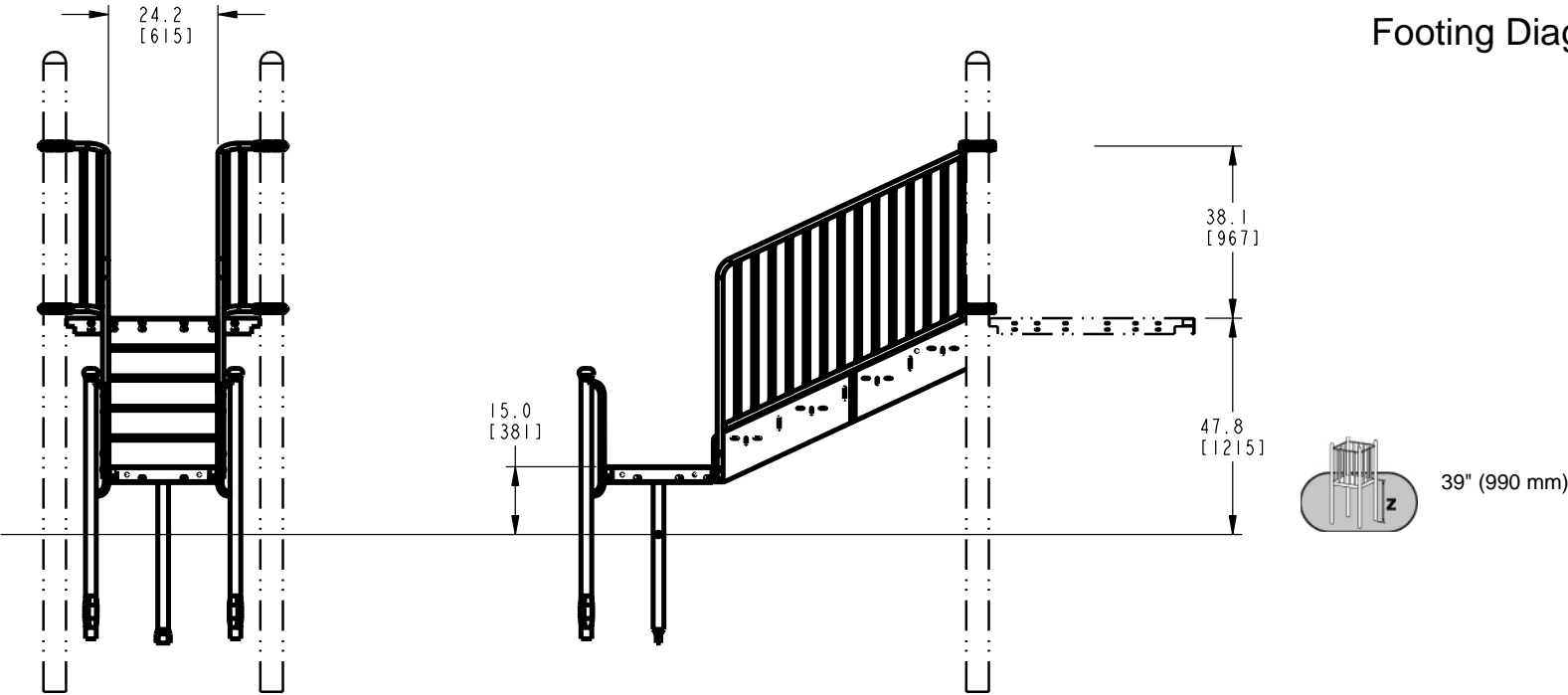


# Installation Instructions

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



Footing Diagram

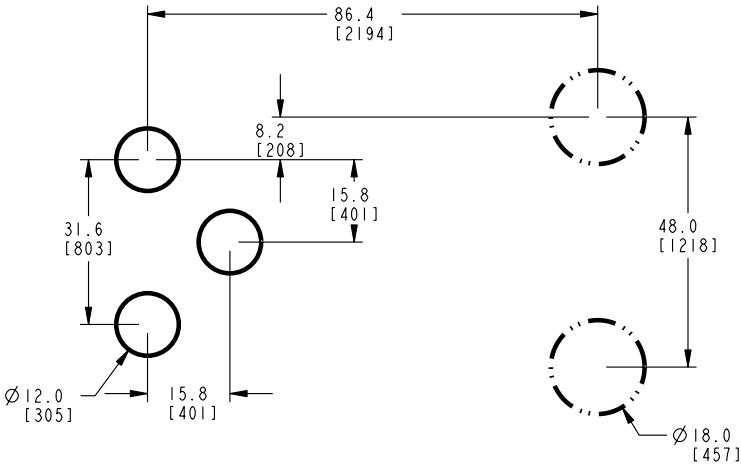


Elevation Views  
PM2027

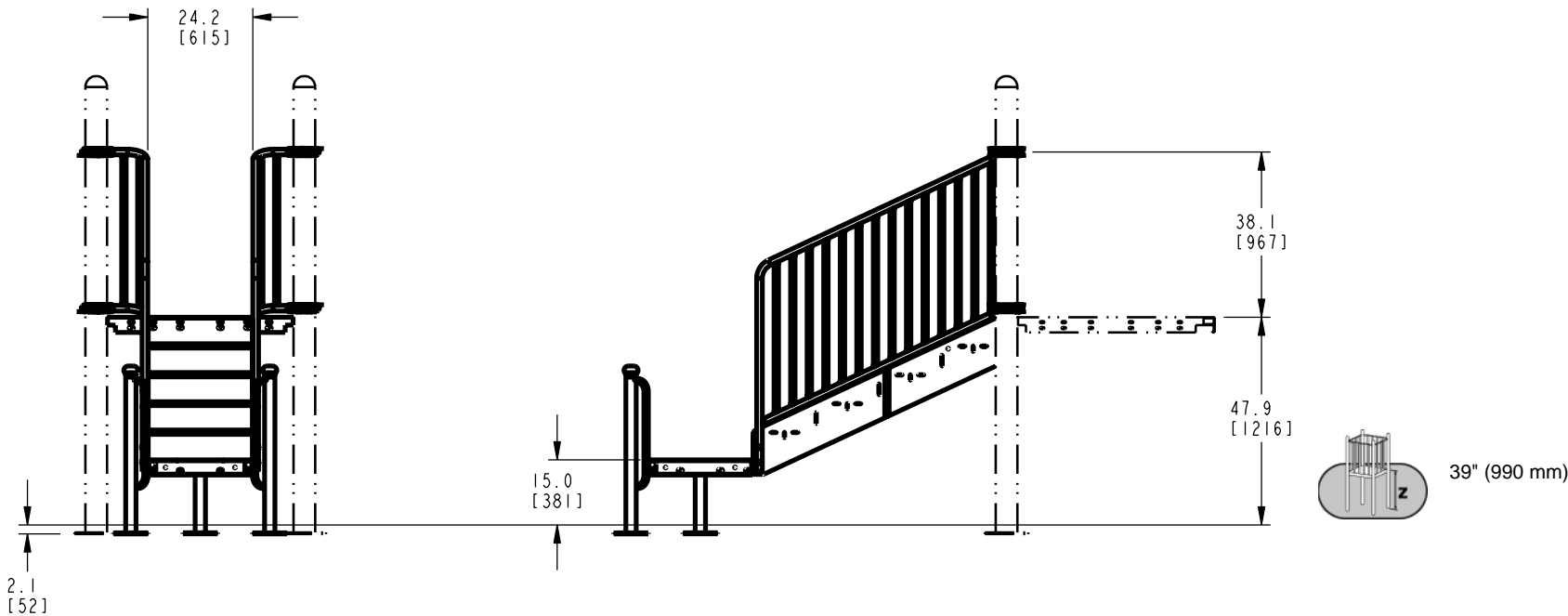


# Installation Instructions

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



Footing Diagram



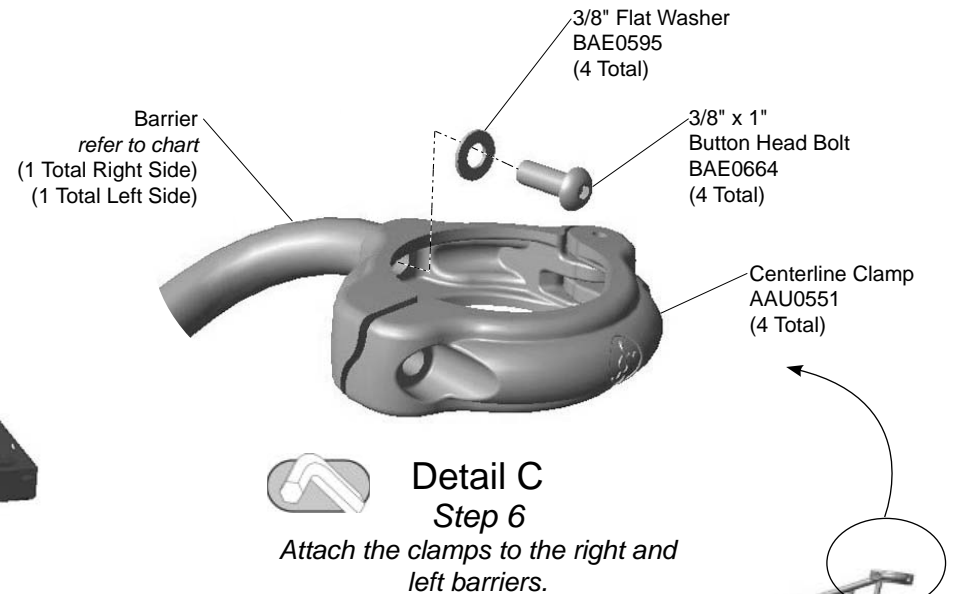
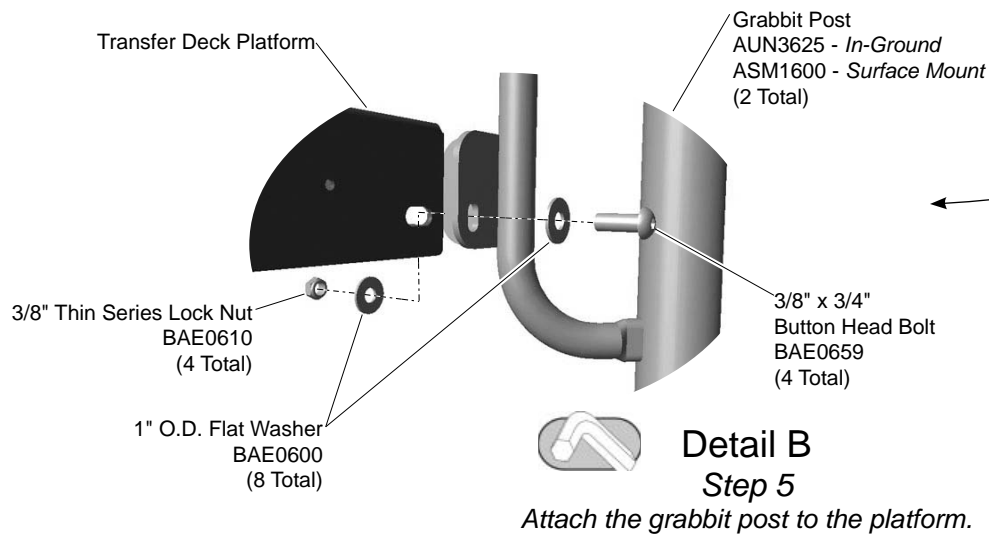
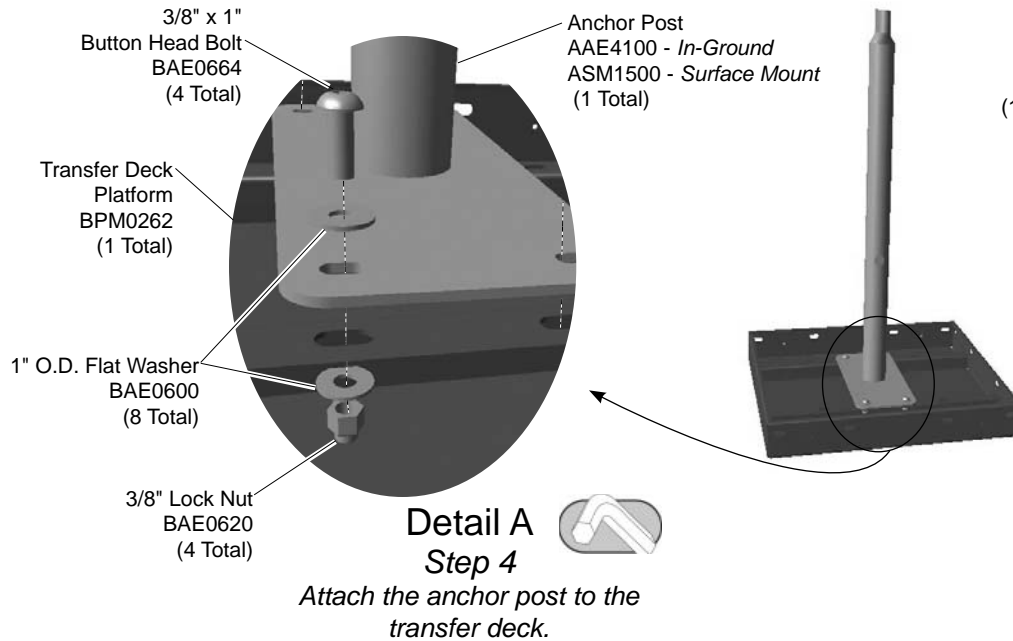
Elevation Views  
PM2027S





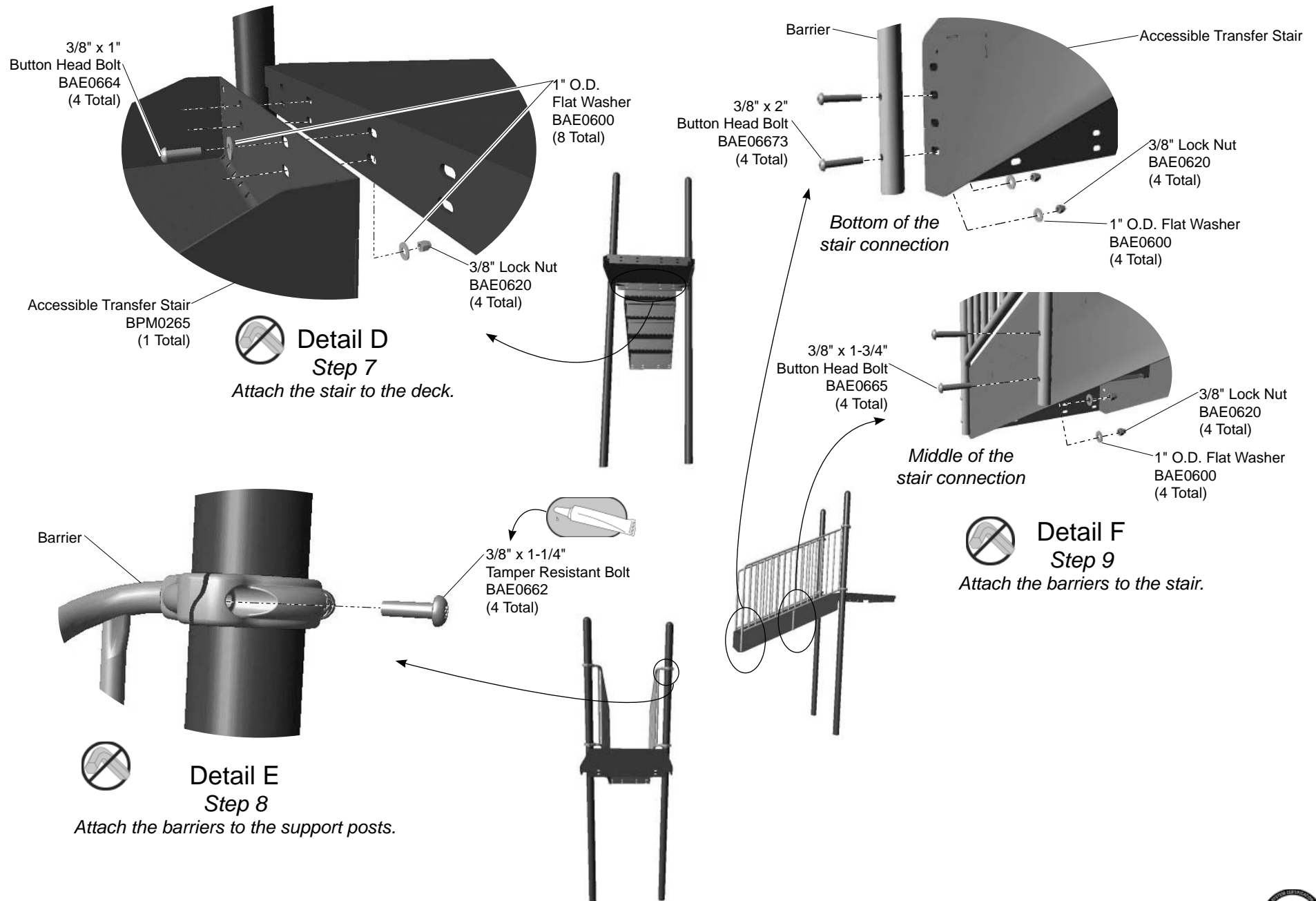
# Installation Instructions

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

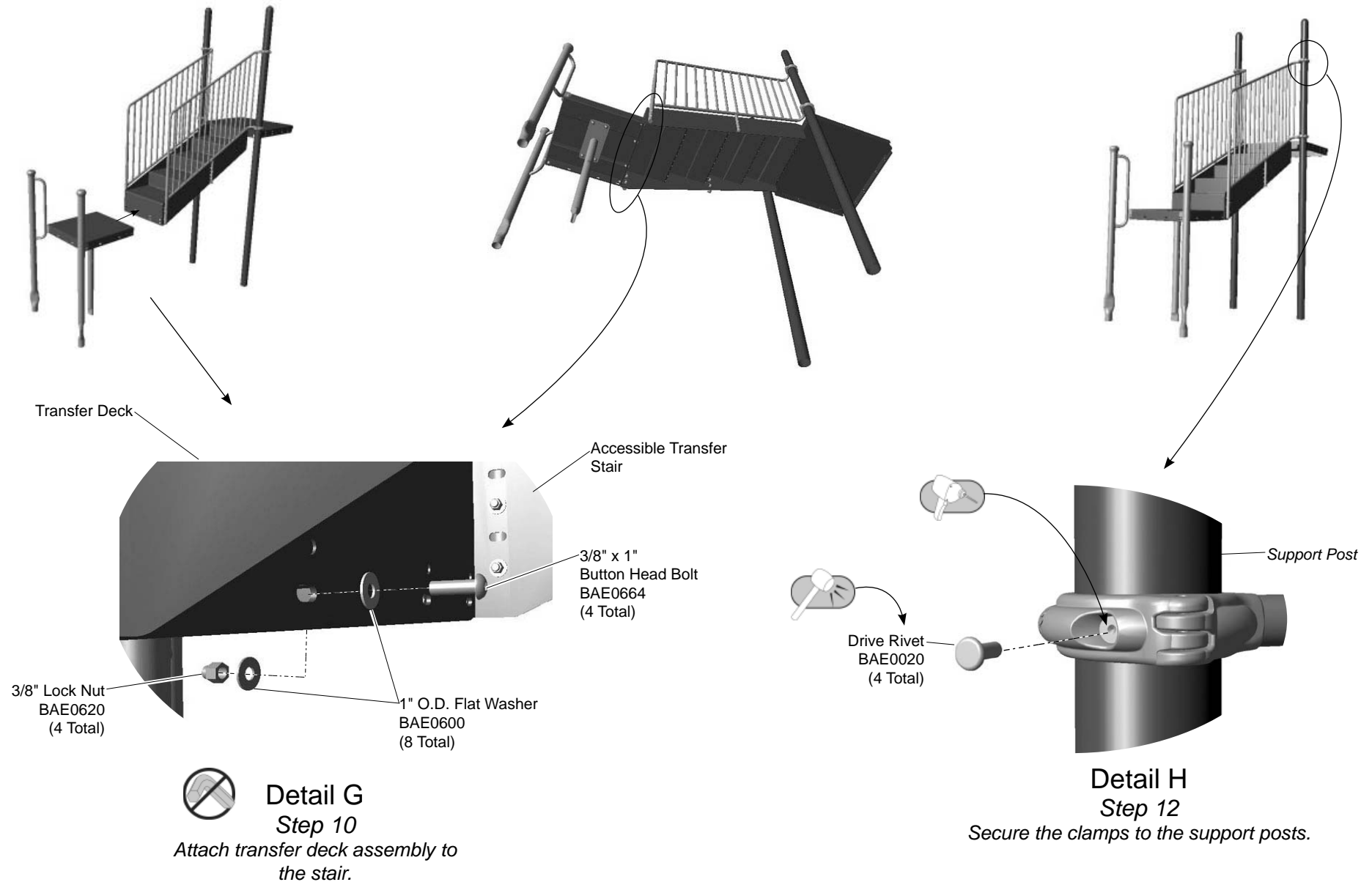


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

# 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 *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

**Attach the anchor post to the transfer deck.**

**Step 4:** Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post 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**. 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 barriers.**

**Step 6:** Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and 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**. 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 barriers to the support posts.**

**Step 8:** Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

**Attach barriers to the stair.**

The barriers 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 barriers should be mounted at the same height.

**Step 9:** Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier 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 **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

**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.

# Installation Instructions

---

**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.

## ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
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	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

## ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
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	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	1



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Assembly View








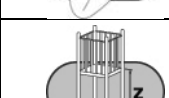
## Installation Instructions

### Universal Model UN2019

### Platform Approach Step

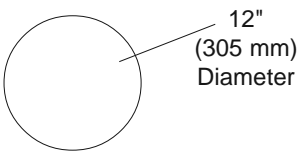
#### Installation Preparation

Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 1 man-hour  
 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
	Do <b>Not</b> Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

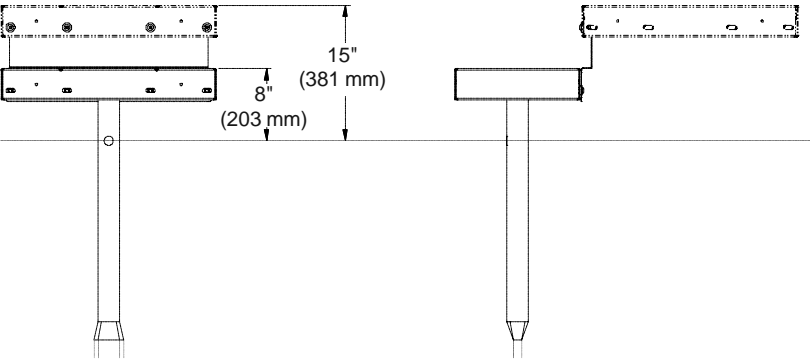
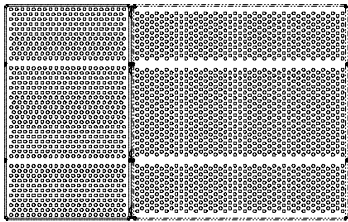


# Installation Instructions

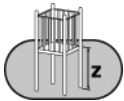


Footing Diagram

Top View



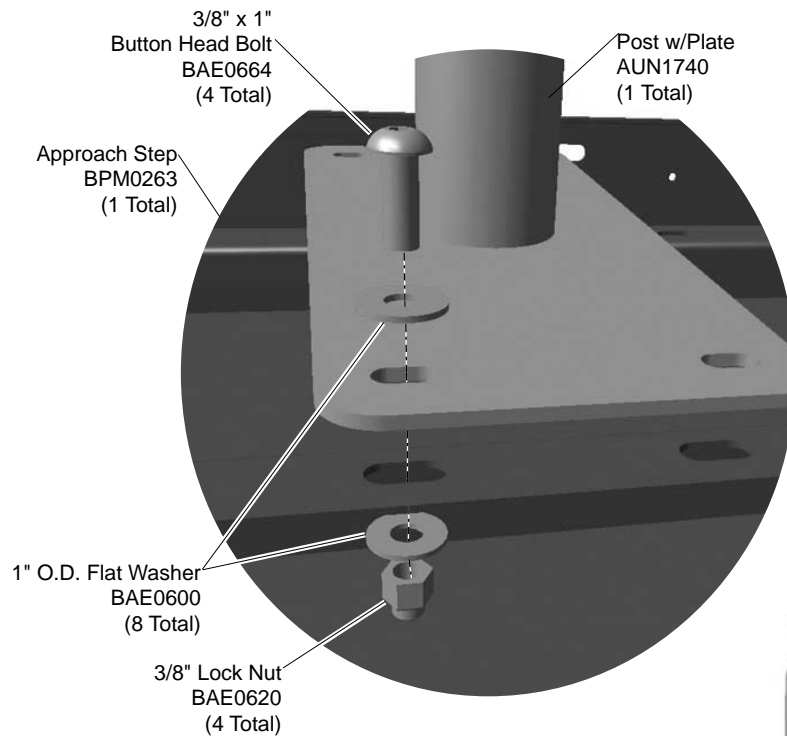
Elevation Views



15" (381 mm)

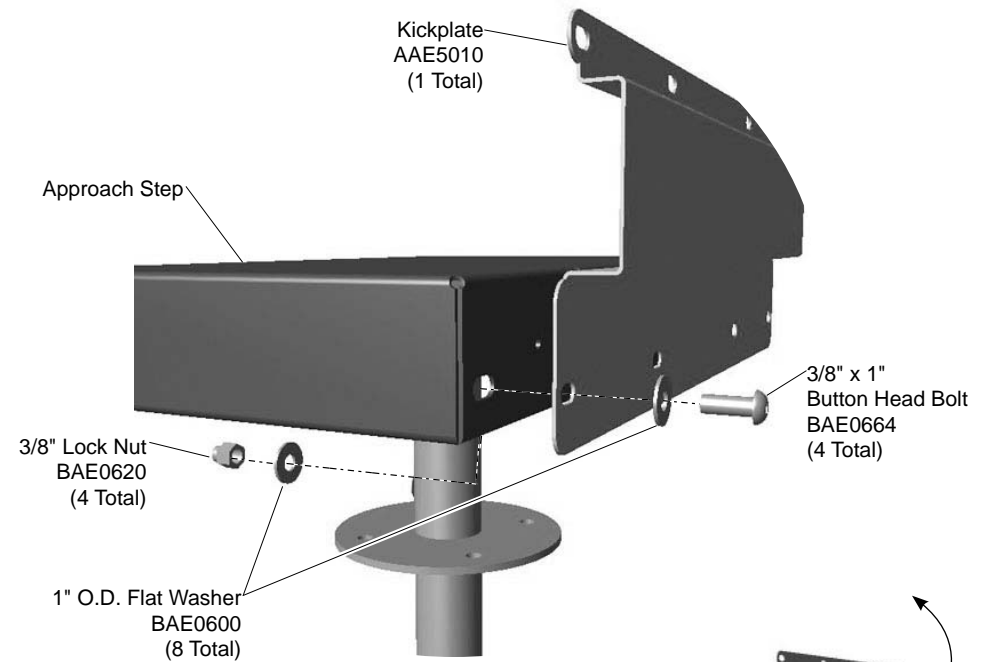
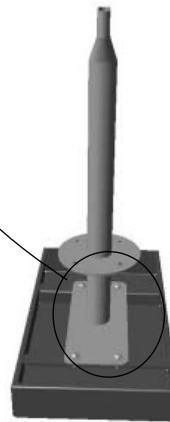
# Installation Instructions

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



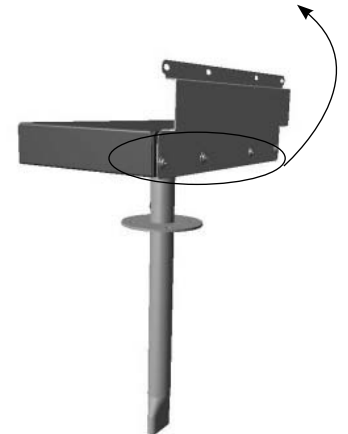
## Detail A Step 4

Attach the anchor post to the approach step.

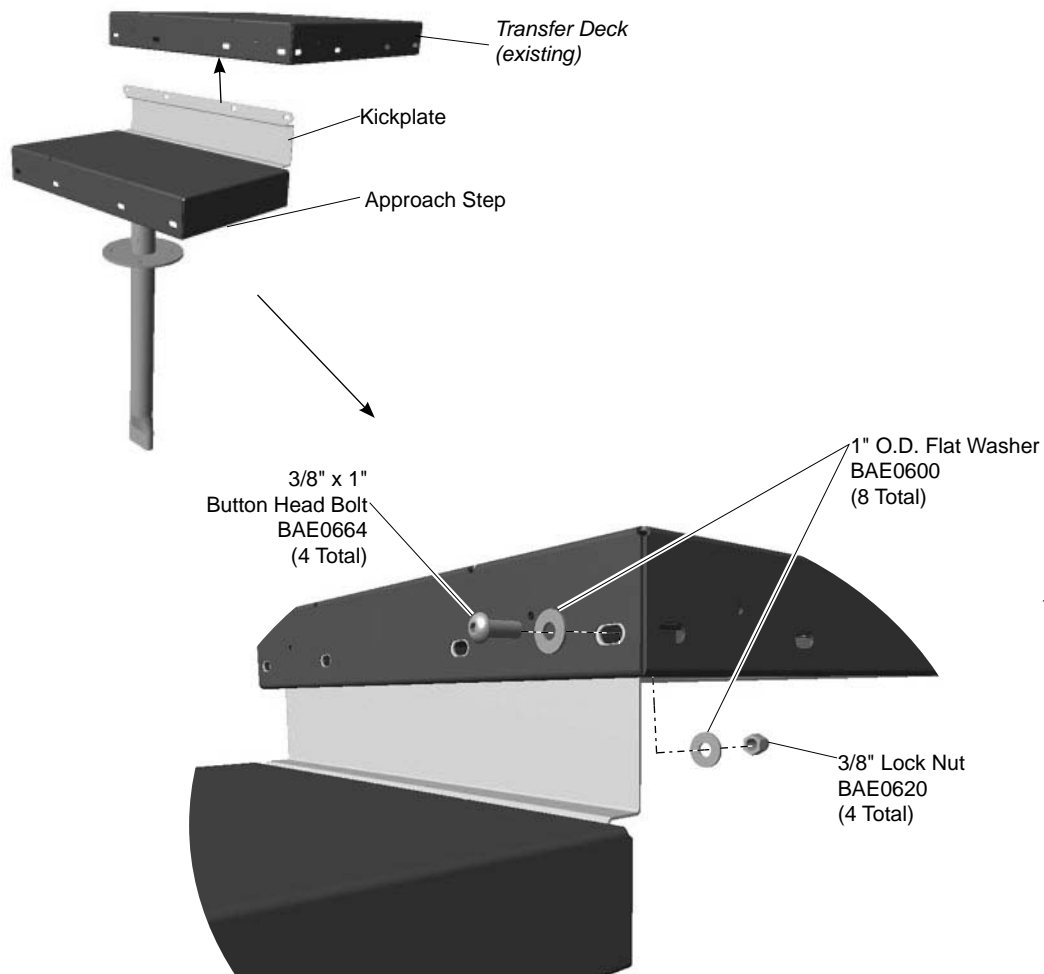


## Detail B Step 5

Attach the kickplate to the approach step.



# Installation Instructions



## Detail C Step 6

Attach the kickplate to the transfer deck.



## Step 7



# 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**. 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**. 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**. 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
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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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 Instructions

### Playmakers®

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

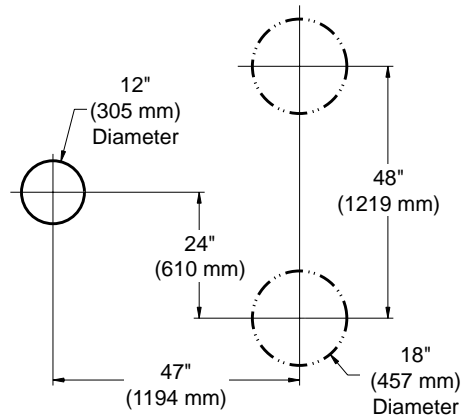
### Installation Preparation

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

### ICON KEY

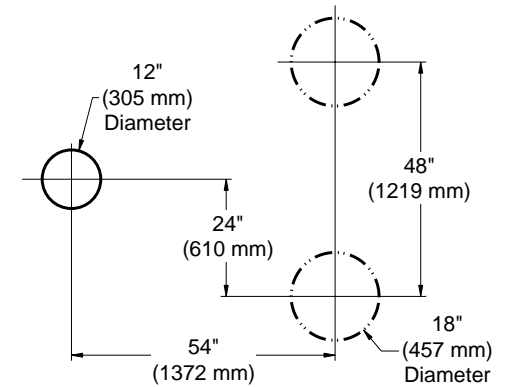
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

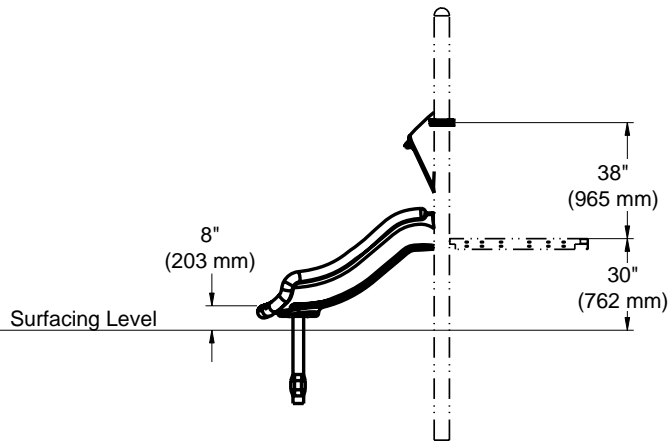
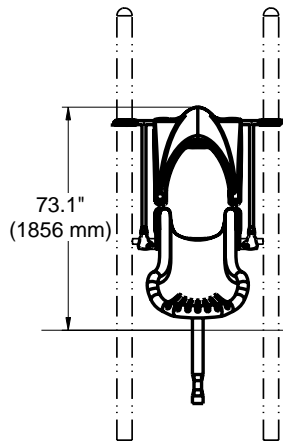


**Footing Diagram**

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

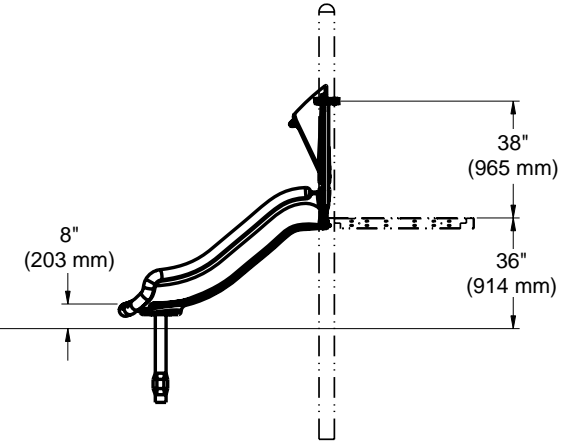
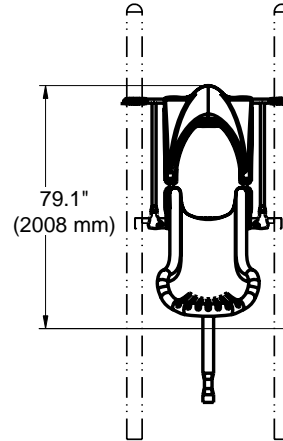


**Footing Diagram**



**Elevation View PM3128 - 30" Glide Slide**

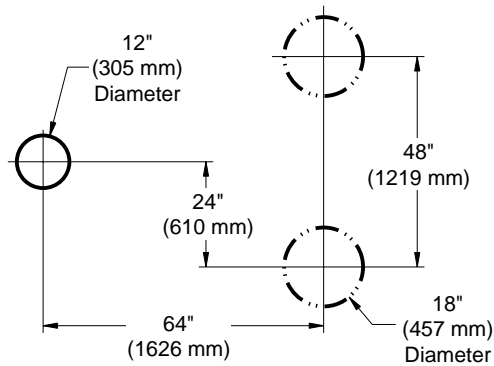
*(24" slide: exit will be 2" (50mm) above the surfacing level)*



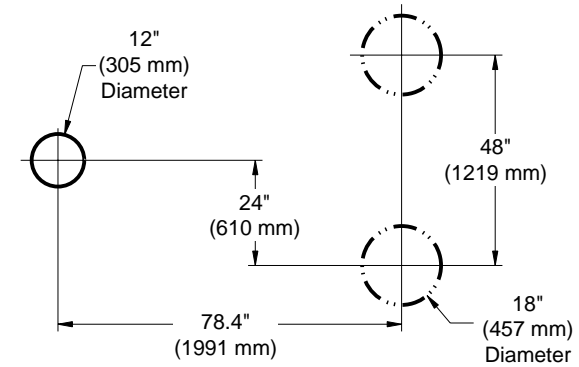
**Elevation View PM3127 - 36" Glide Slide**



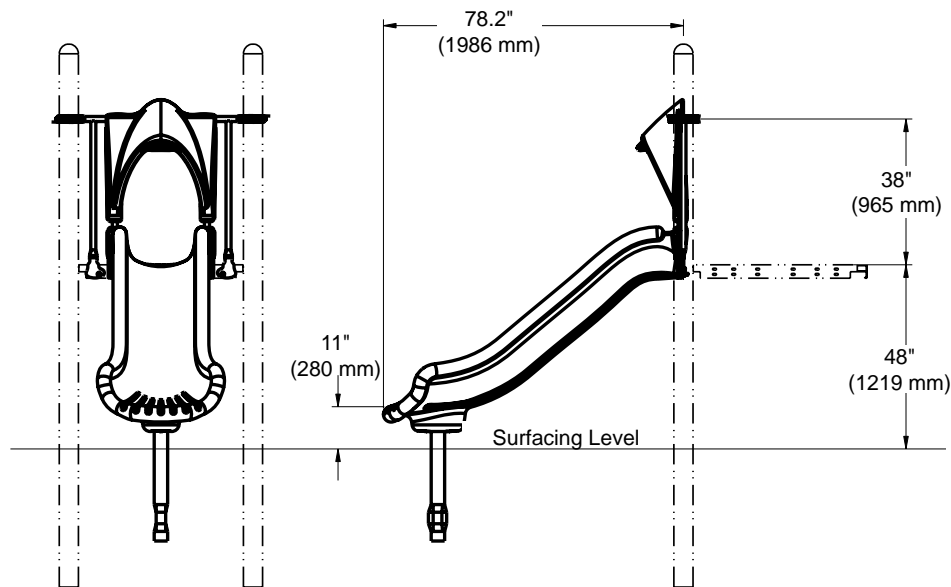
# Installation Instructions



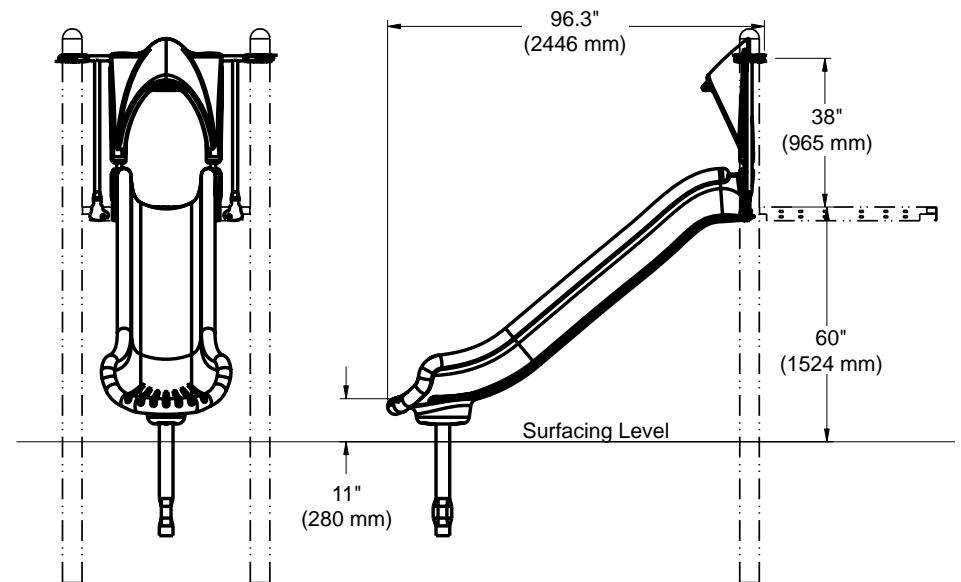
Footing Diagram



Footing Diagram

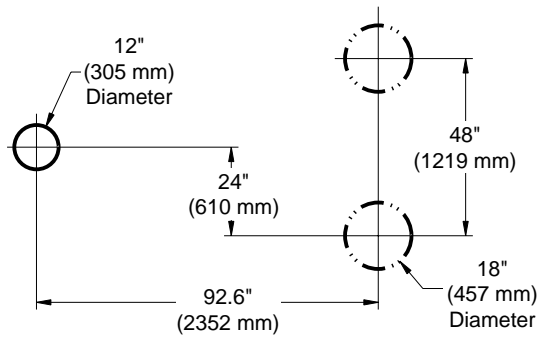


Elevation View PM3126 - 48" Glide Slide

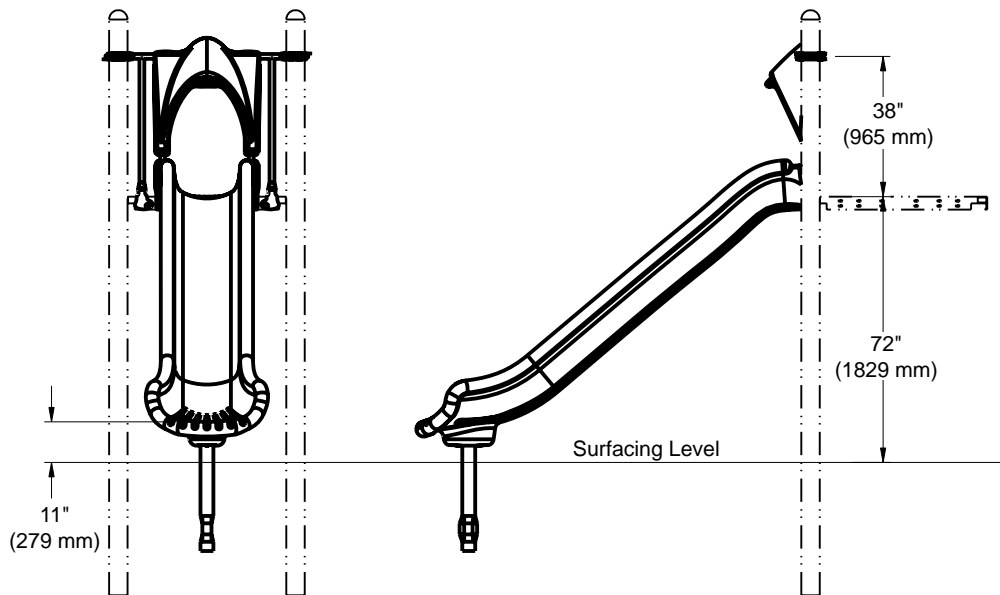


Elevation View PM2658 - 60" Glide Slide

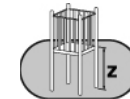
# Installation Instructions



Footings Diagram



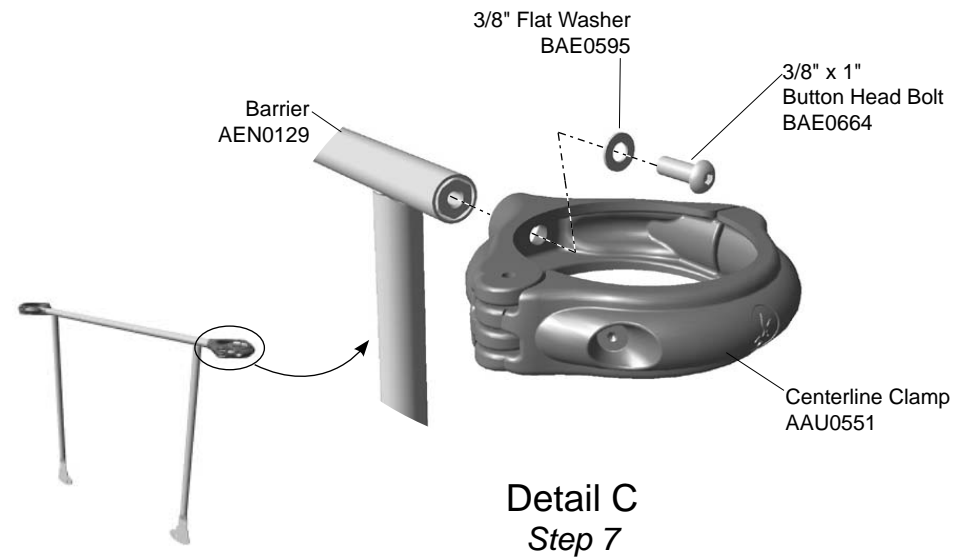
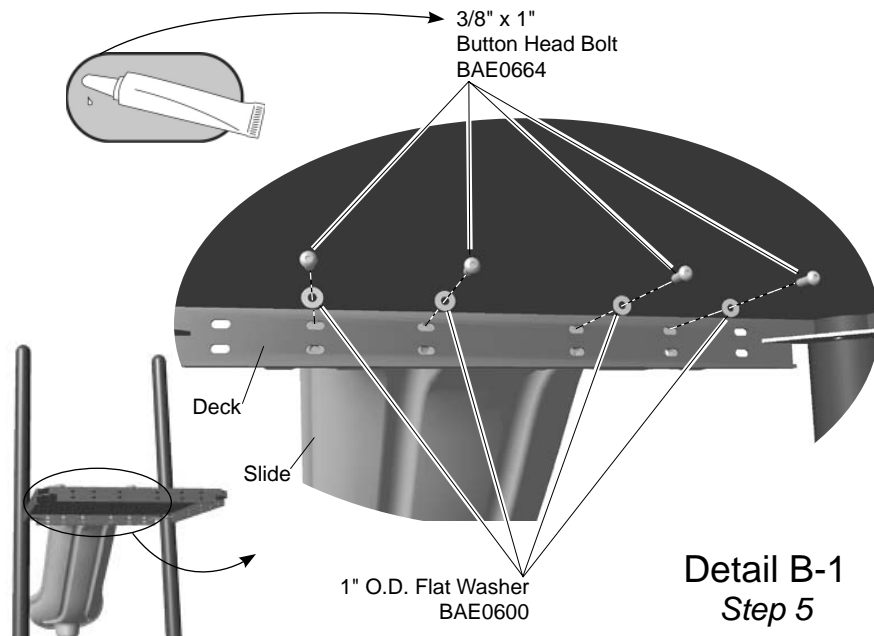
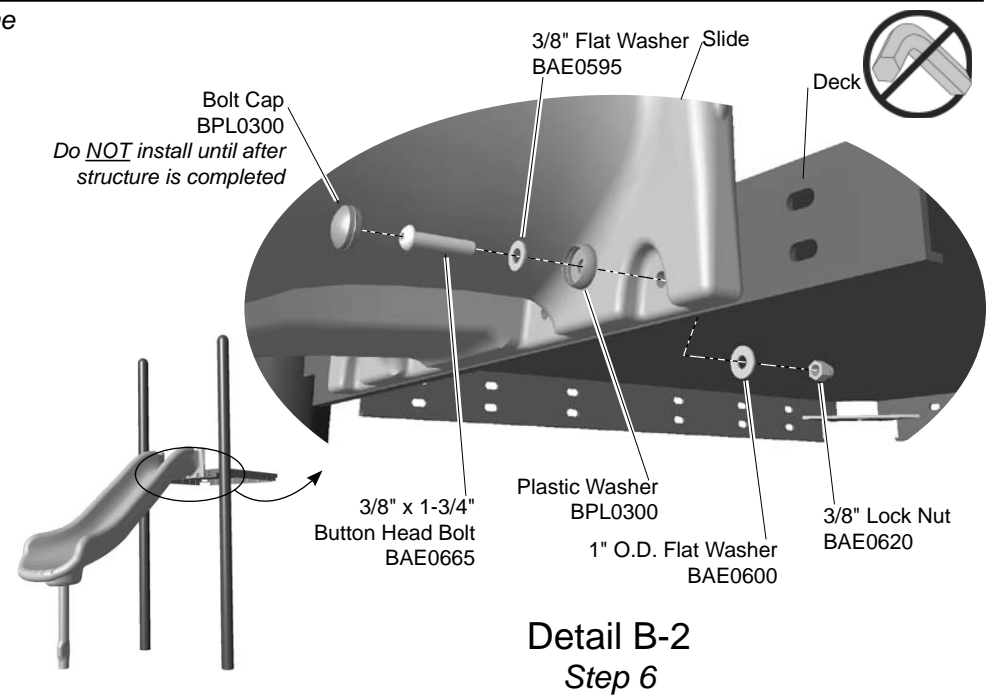
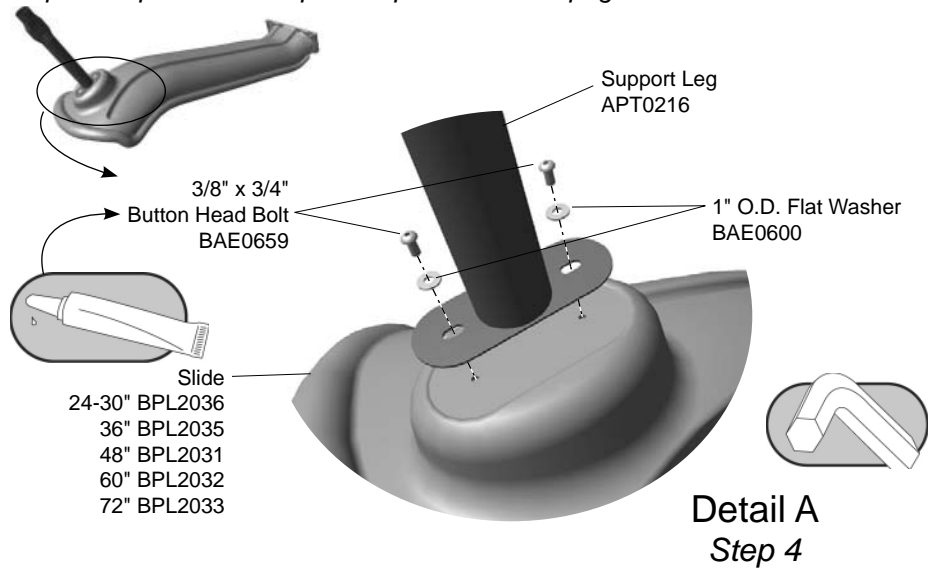
Elevation View PM2696 - 72" Glide Slide



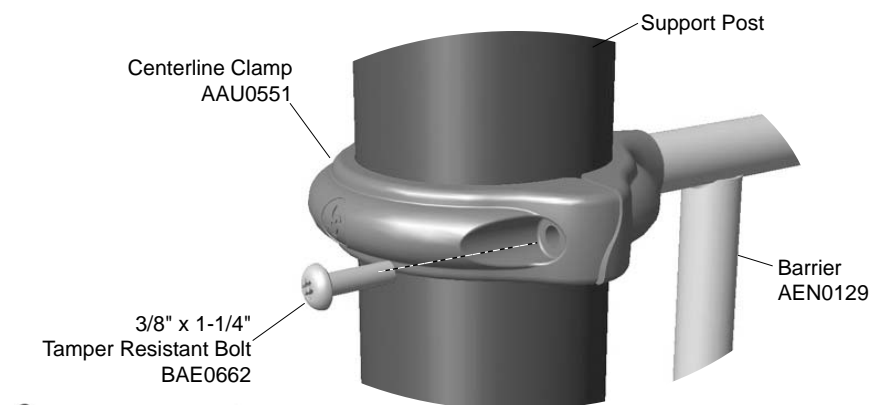
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

# Installation Instructions

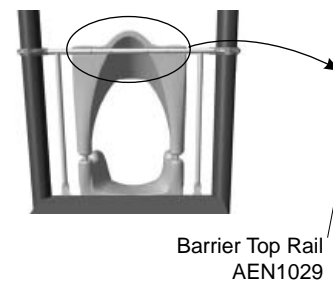
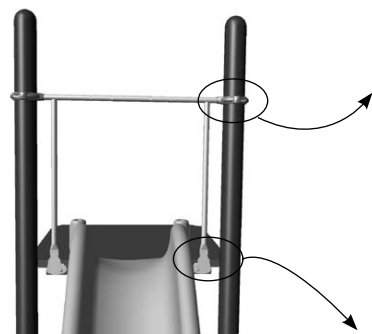
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



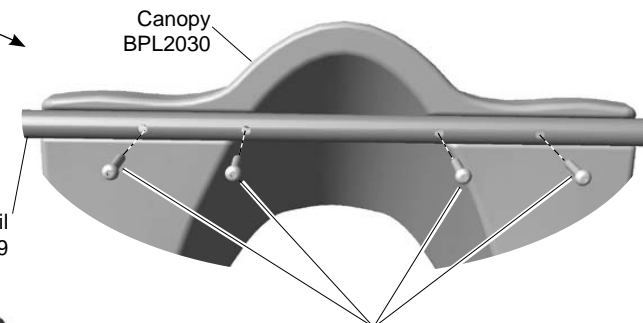
# Installation Instructions



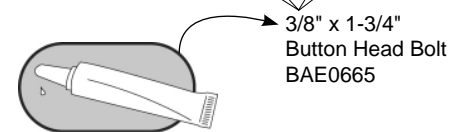
**Detail D-1**  
*Step 8*



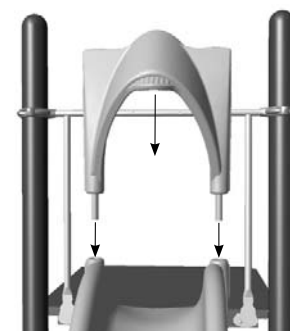
Barrier Top Rail  
AEN1029



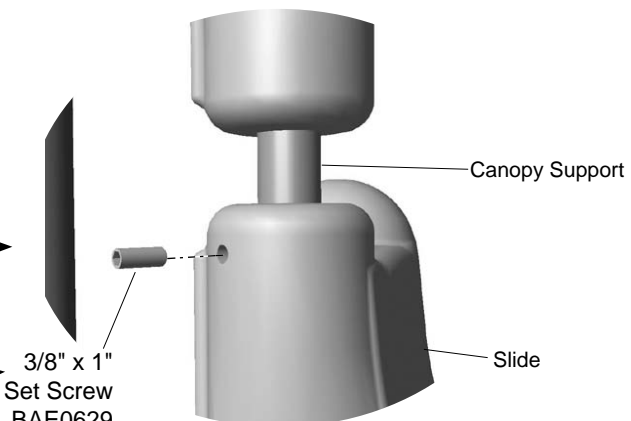
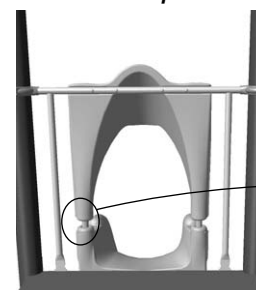
Canopy  
BPL2030



**Detail E-2**  
*Step 10*



**Detail E-1**  
*Step 10*

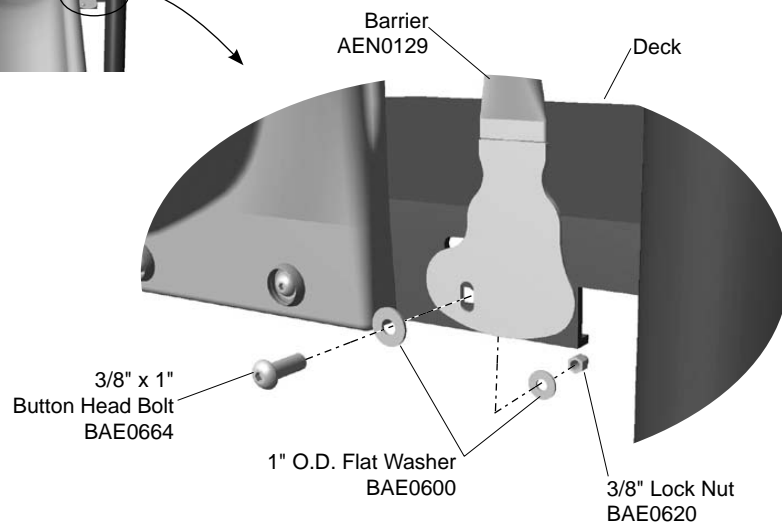


Canopy Support

Slide

3/8" x 1"  
Set Screw  
BAE0629

**Detail F**  
*Step 11*

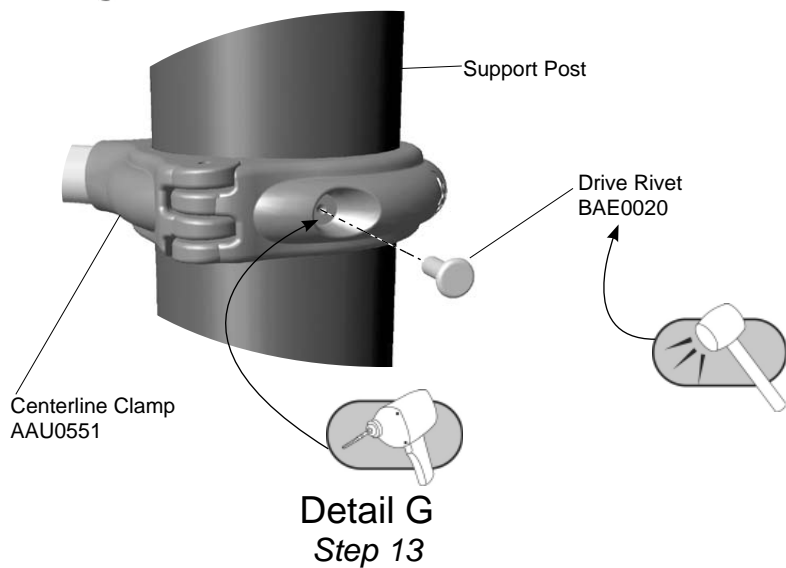
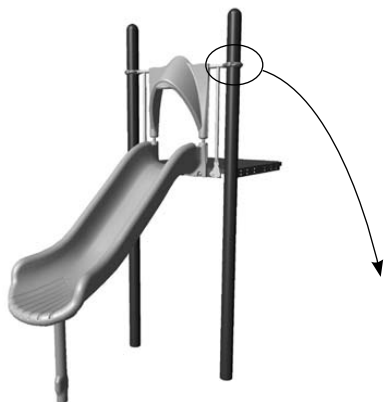


**Detail D-2**  
*Step 9*

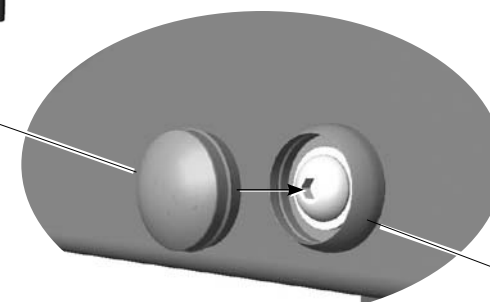
# Installation Instructions



Step 12



Bolt Cap  
BPL0300



Plastic Washer  
BPL0300

Detail H  
Step 14  
(refer to Detail B-2 also)

# 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 bedway 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.



## 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

## 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

## 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

## 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

## 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" TMR 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 PM2805  
Entry Support Bracket

Installation Preparation

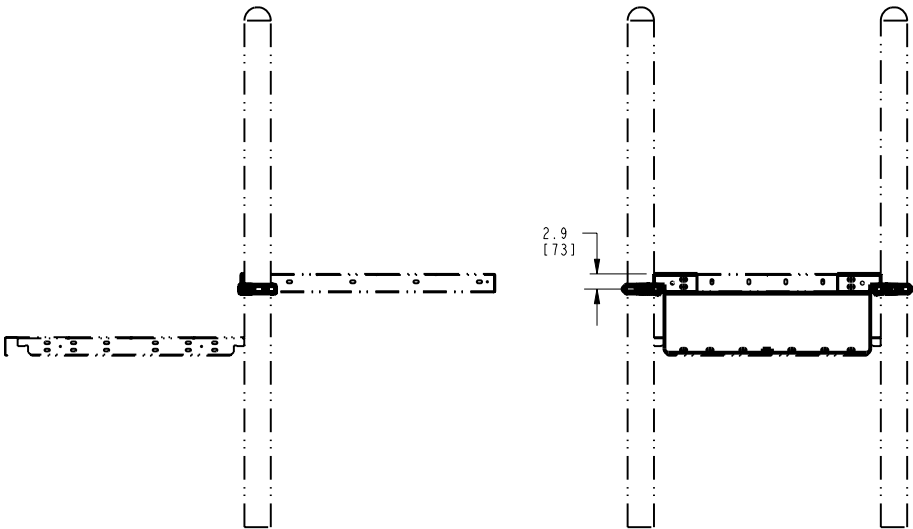
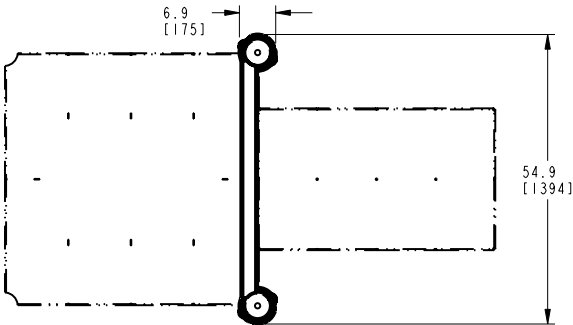
- Recommended Crew: ..... One (1) adult  
Installation Time: ..... 0.5 man-hours  
\*Weight:..... 19.8 lbs. (9 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14
- \*Weights are approximate for determining manpower.*

ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> 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

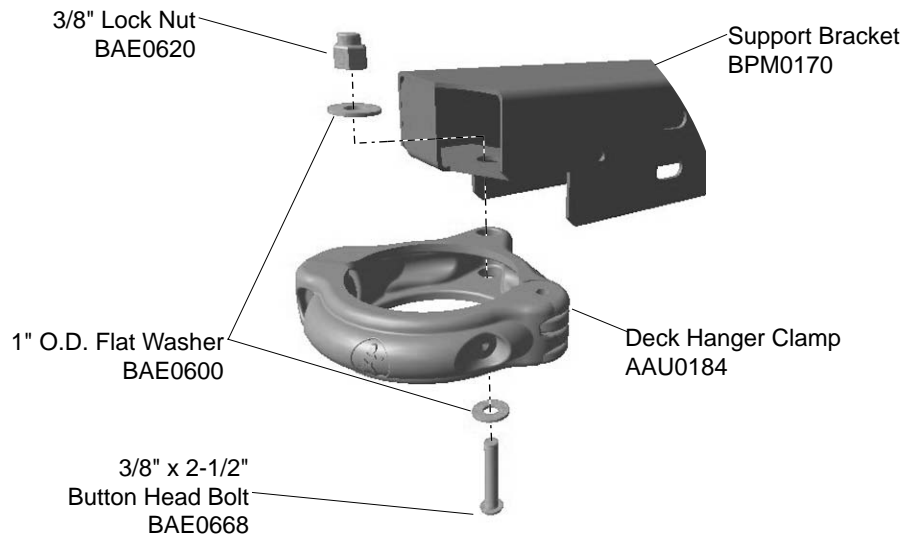


Elevation Views



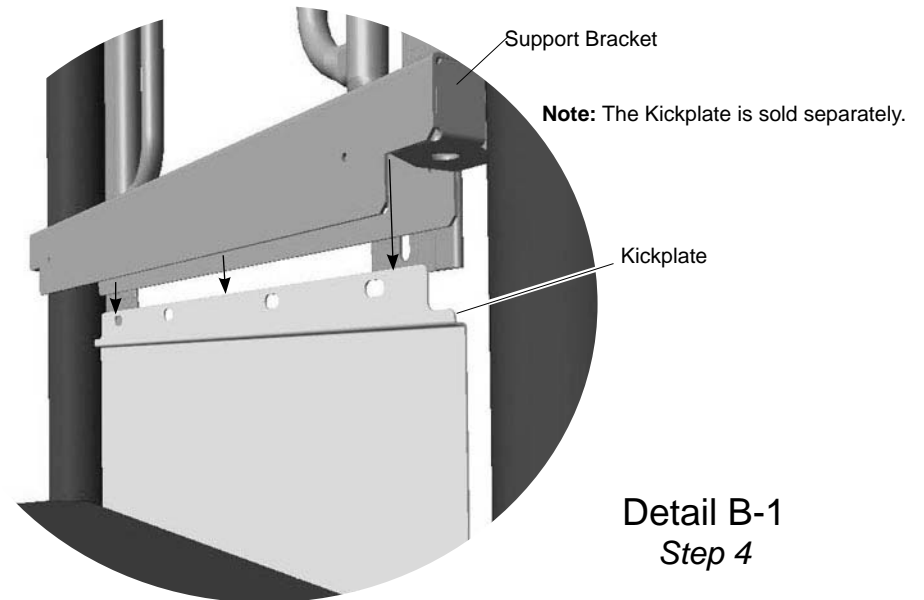
# Installation Instructions

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

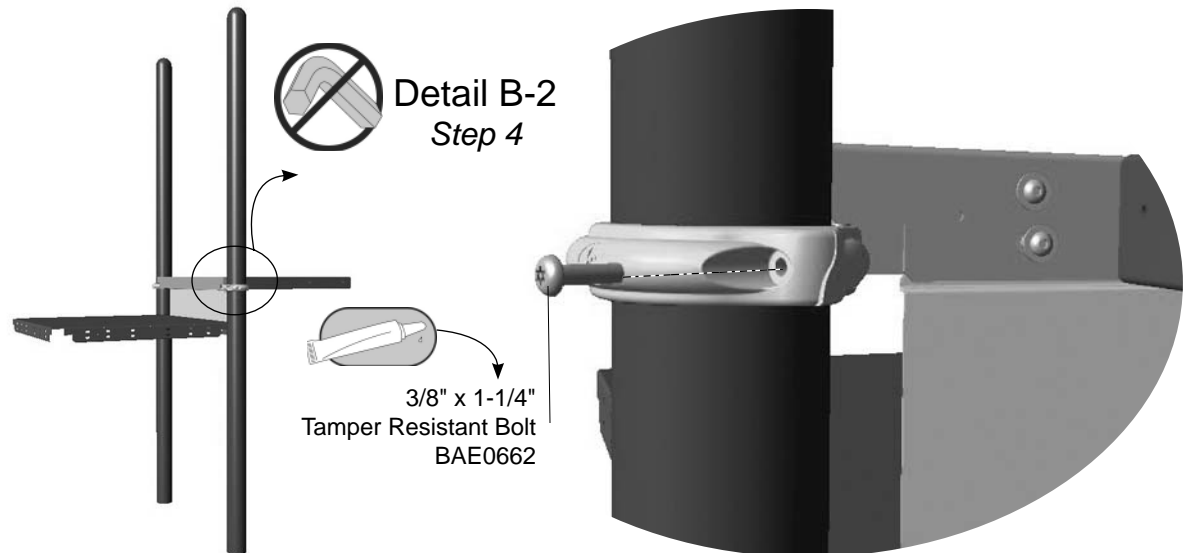


Detail A  
Step 3

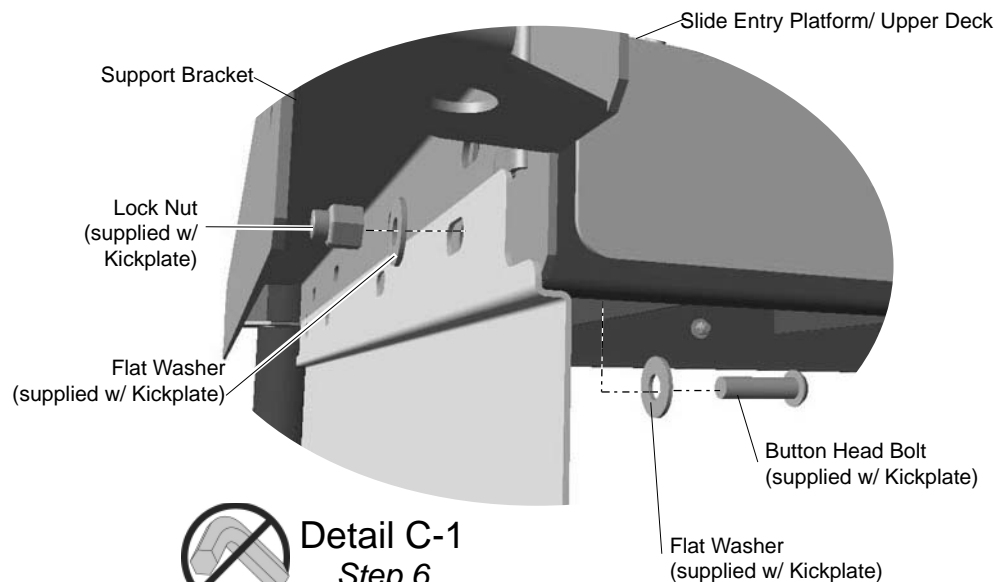
Detail A  
Step 3



**Important Note:** The Kickplate fits inside of the support bracket with the bracket resting on the lip of the kickplate.

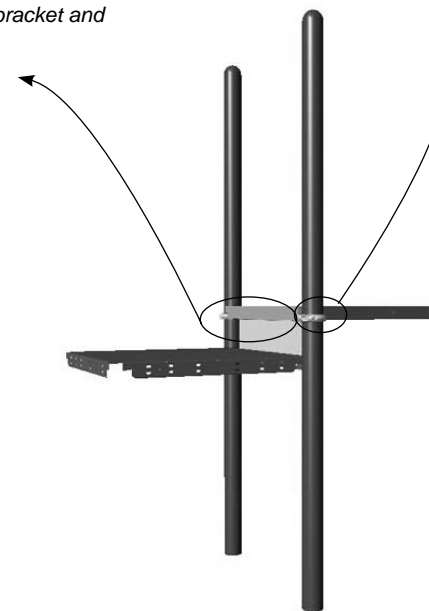
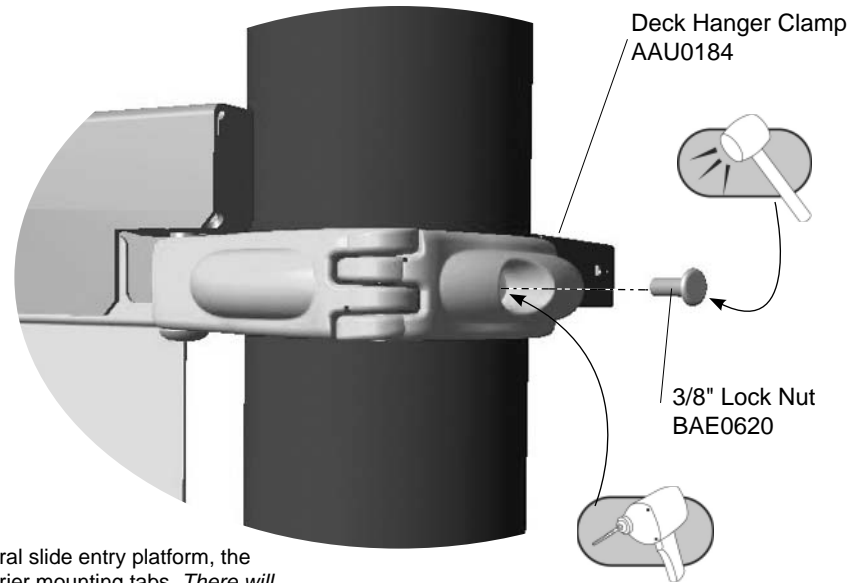
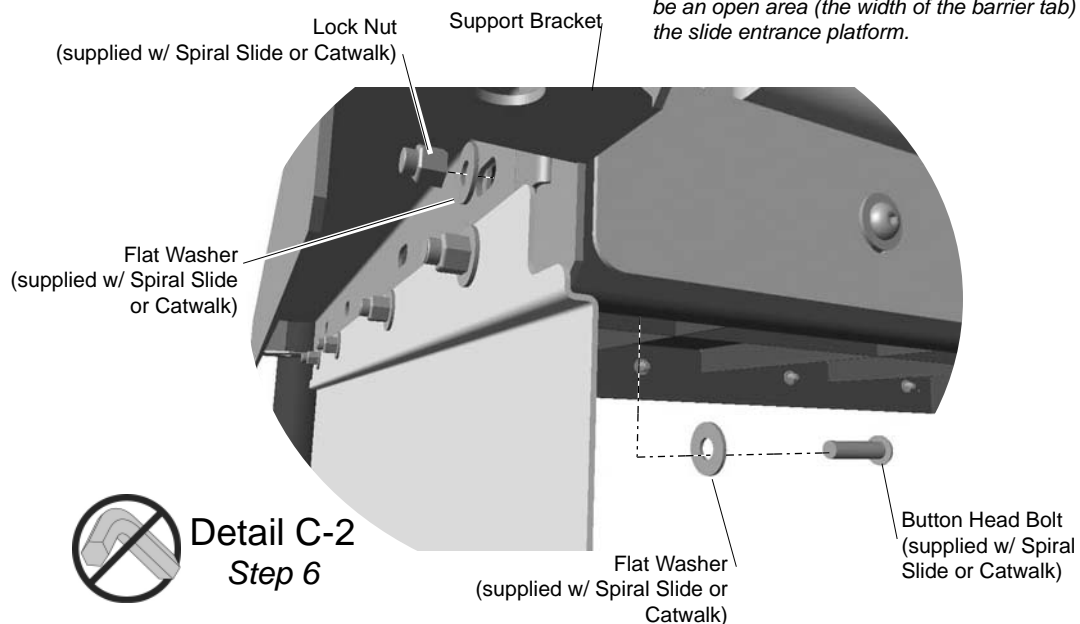


# Installation Instructions



**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.*



# 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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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

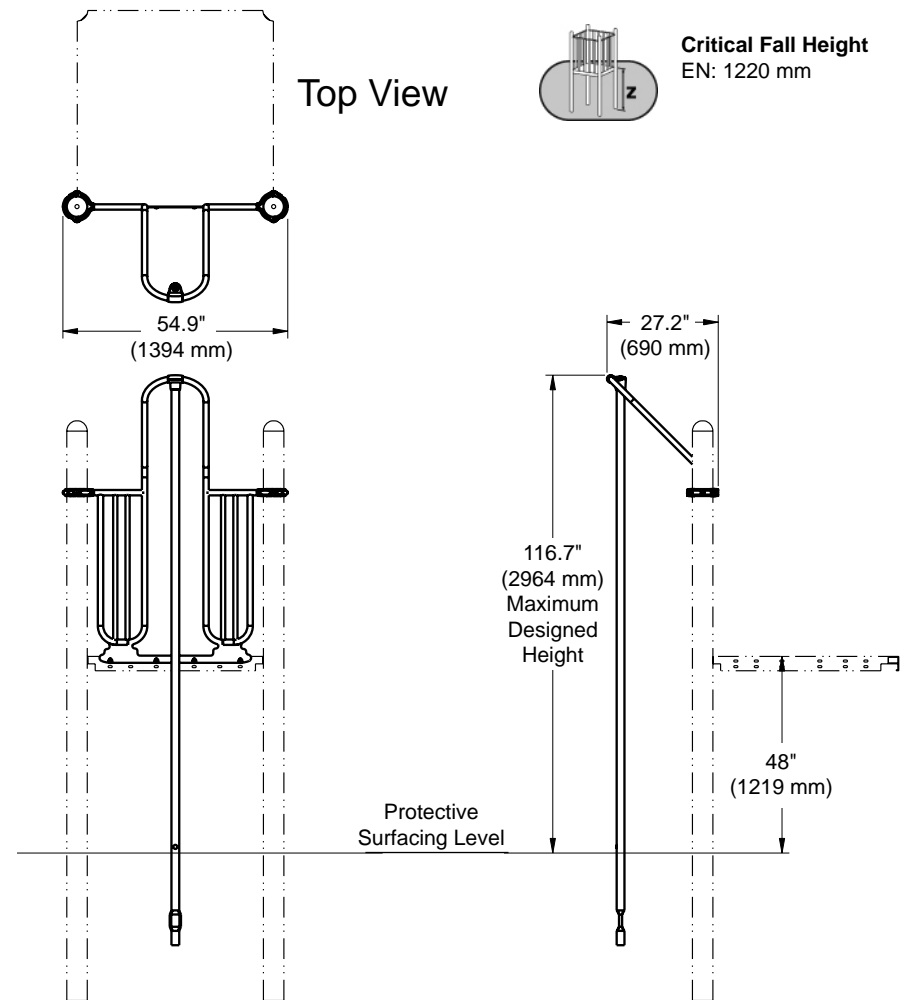
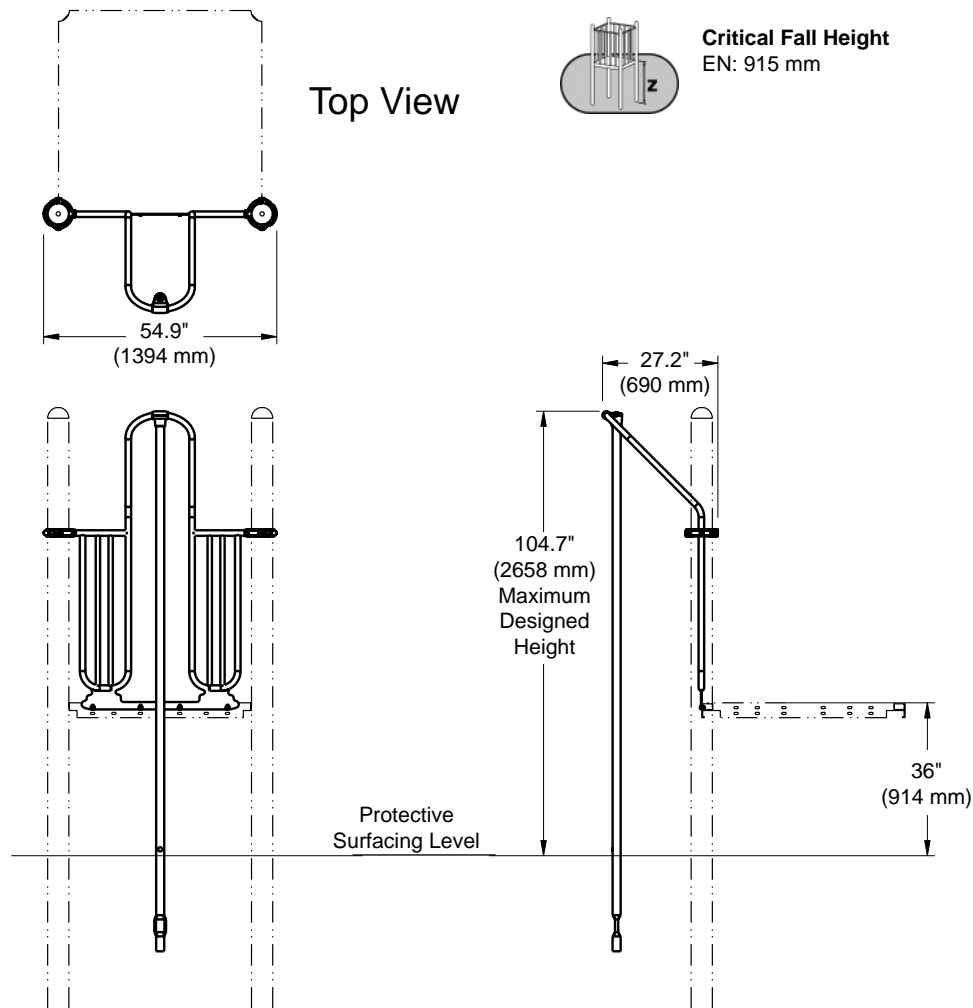
## Installation Preparation

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

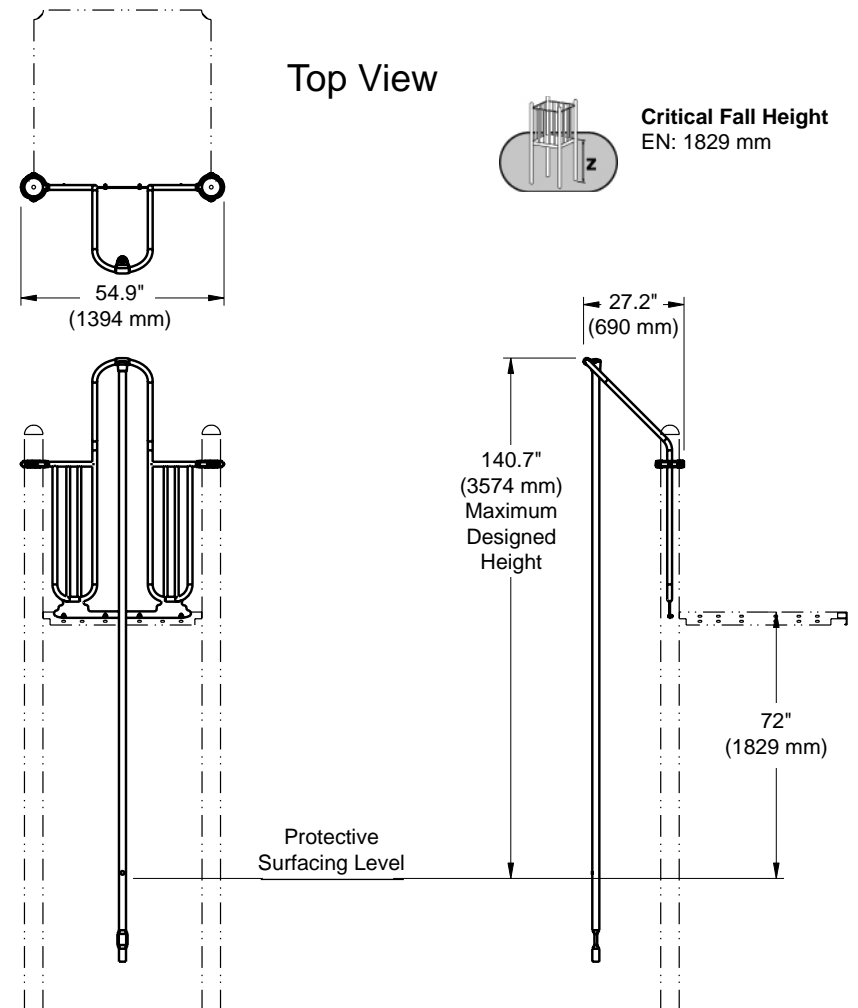
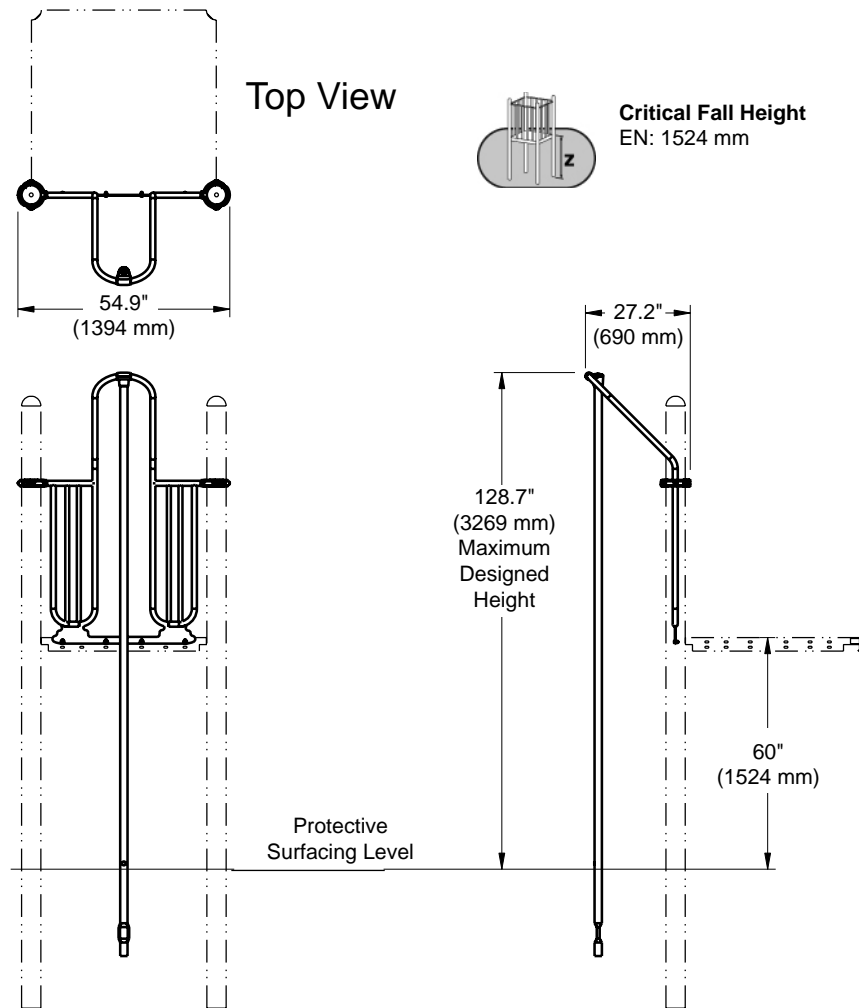
## ICON KEY

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

# Installation Instructions

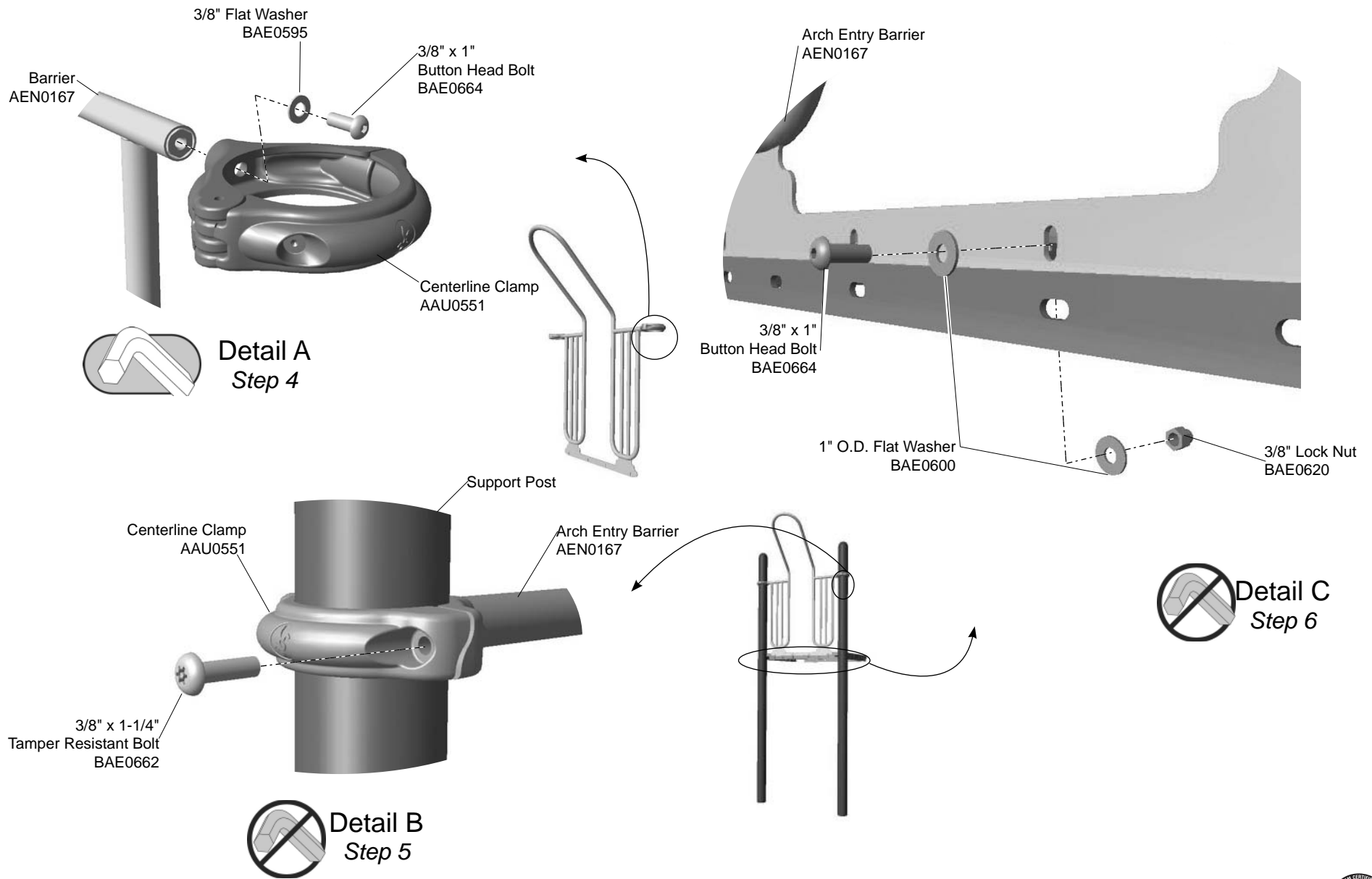


# Installation Instructions

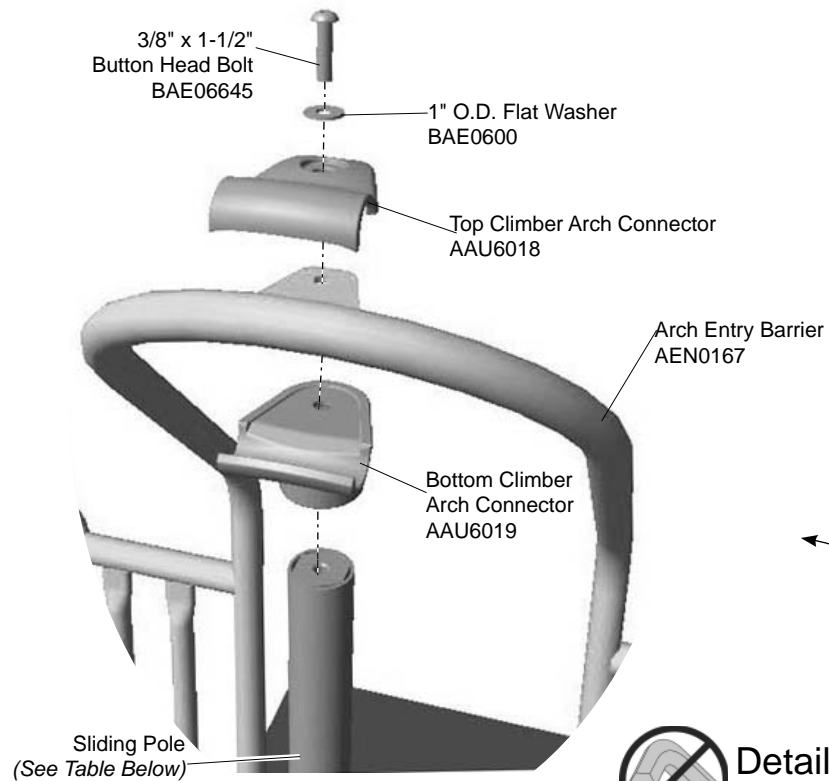


# Installation Instructions

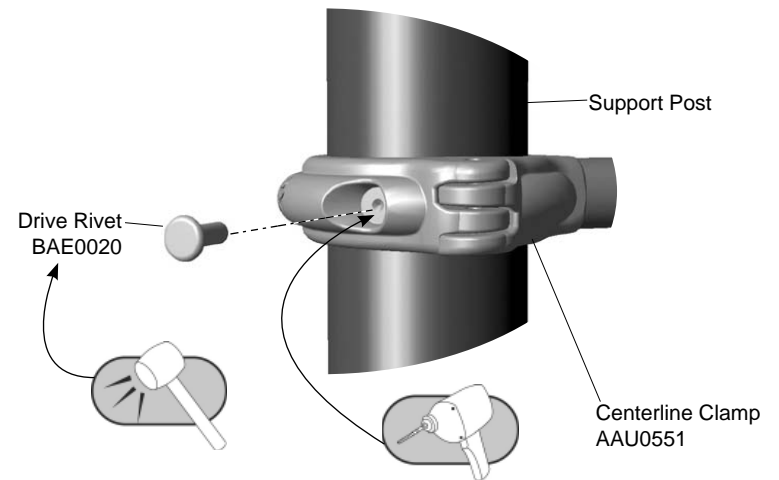
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



# Installation Instructions



**Detail D**  
Step 7



**Detail E**  
Step 9

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 (ZZPM8060)

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 48 in. (1219 mm) DECK (ZZPM8070)

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 60 in. (1524 mm) DECK (ZZPM8080)

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 72 in. (1829 mm) DECK (ZZPM8090)

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






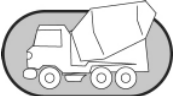
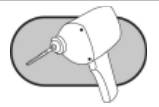


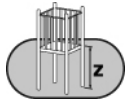
Frog Button  
(example of one  
of ten buttons)

## Installation Instructions Playmakers® Model PM4547 Scavenger Hunt Ground Level

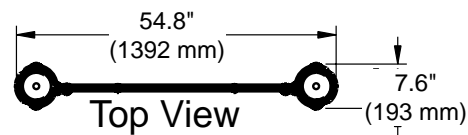
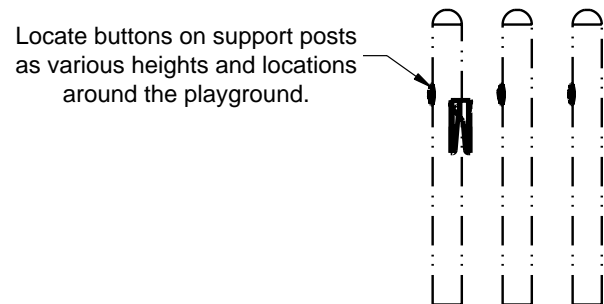
### Installation Preparation

Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 2 man-hours  
Weight: ..... \*56.4 lbs. (25,6 kg)  
Use Zone:..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

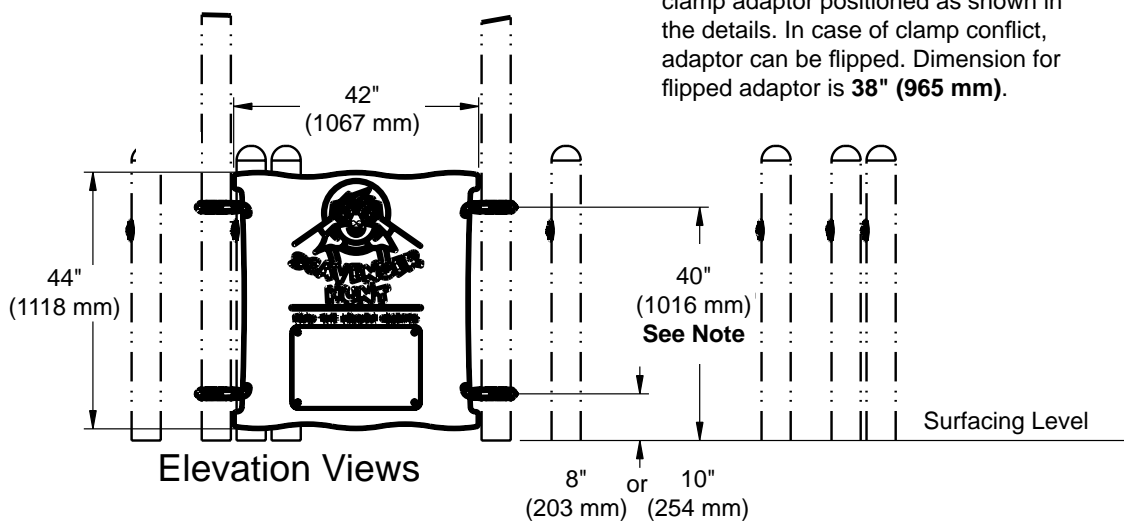
*\*Weights are approximate for determining manpower.*

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

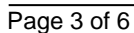
# Installation Instructions



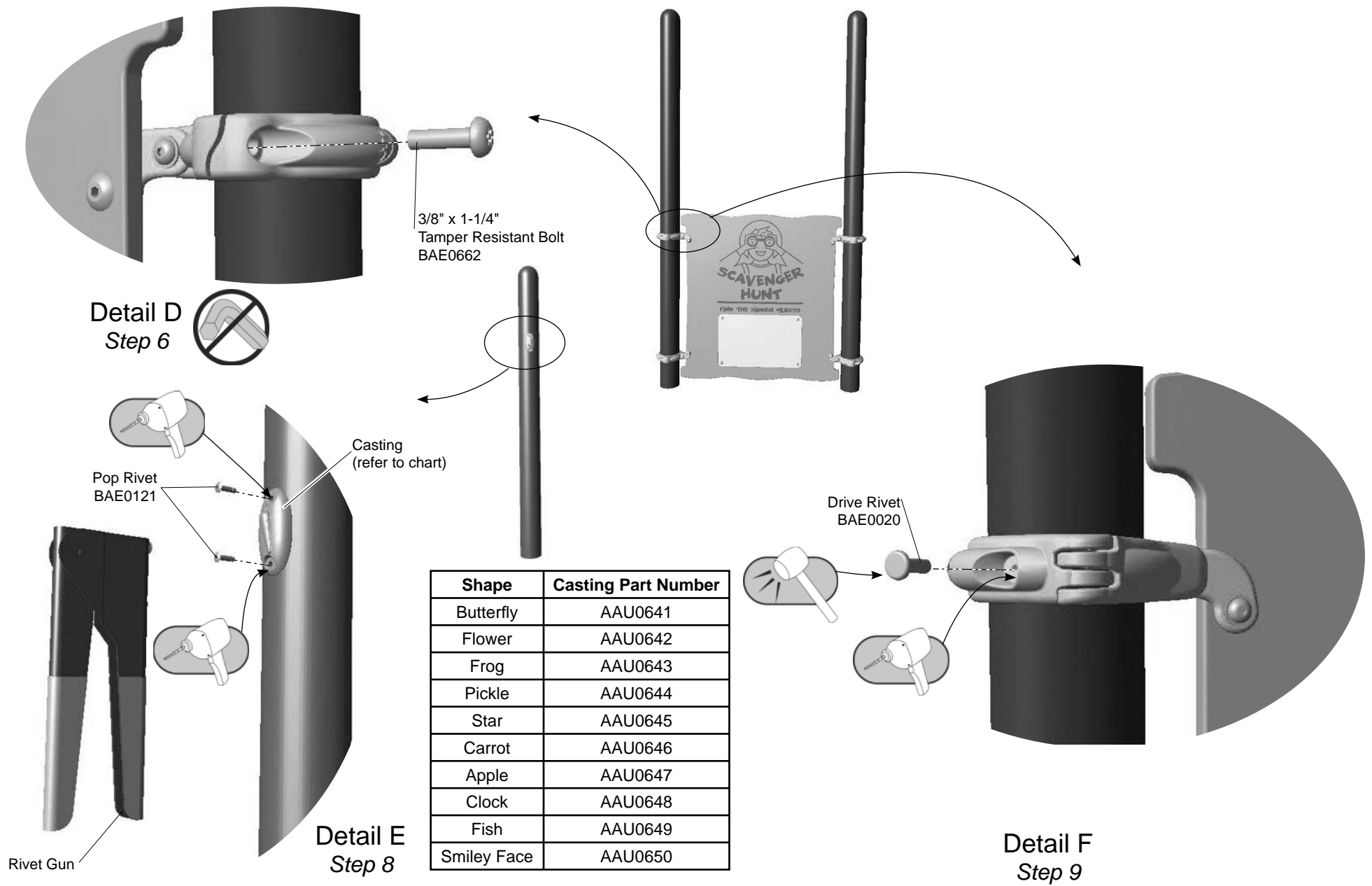
**Note:** Dimension 40" (1016 mm) for clamp adaptor positioned as shown in the details. In case of clamp conflict, adaptor can be flipped. Dimension for flipped adaptor is 38" (965 mm).



*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 (4) four 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 (4) four 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 support posts.**

**Step 6:** Attach the panel to support posts. See **Detail D** 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.

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

**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.

**Attach the castings to support posts.**

**Step 8:** Attach the castings to the support posts. See **Detail E**. 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 the supplied 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 9:** Install drive rivets in the clamps. 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.

**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.

## ZZPM4547 - SCAVENGER HUNT GROUND LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
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	4
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	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1266	SHEET - 42.00" x 44.00" SCAVENGER HUNT (GL)	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

## Installation Instructions

### Playmakers® Model PM4646

### Storefront Panel

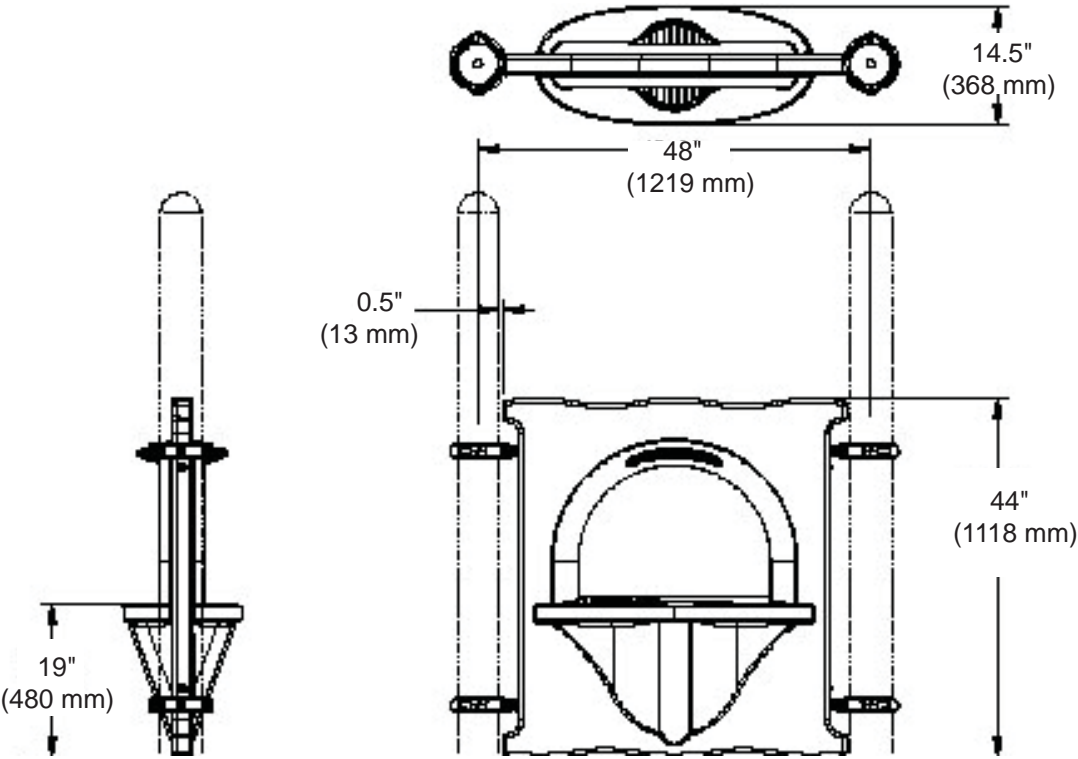
#### Installation Preparation

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

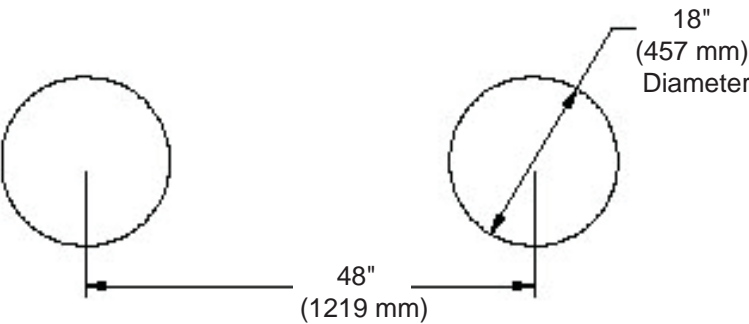
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

# Installation Instructions

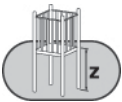
Top View



Footing Diagram



Elevation Views

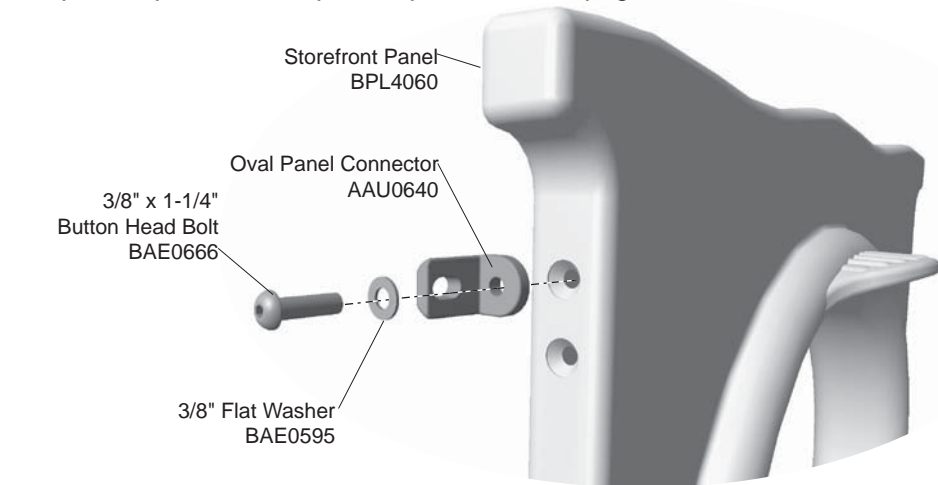


EN: 480 mm

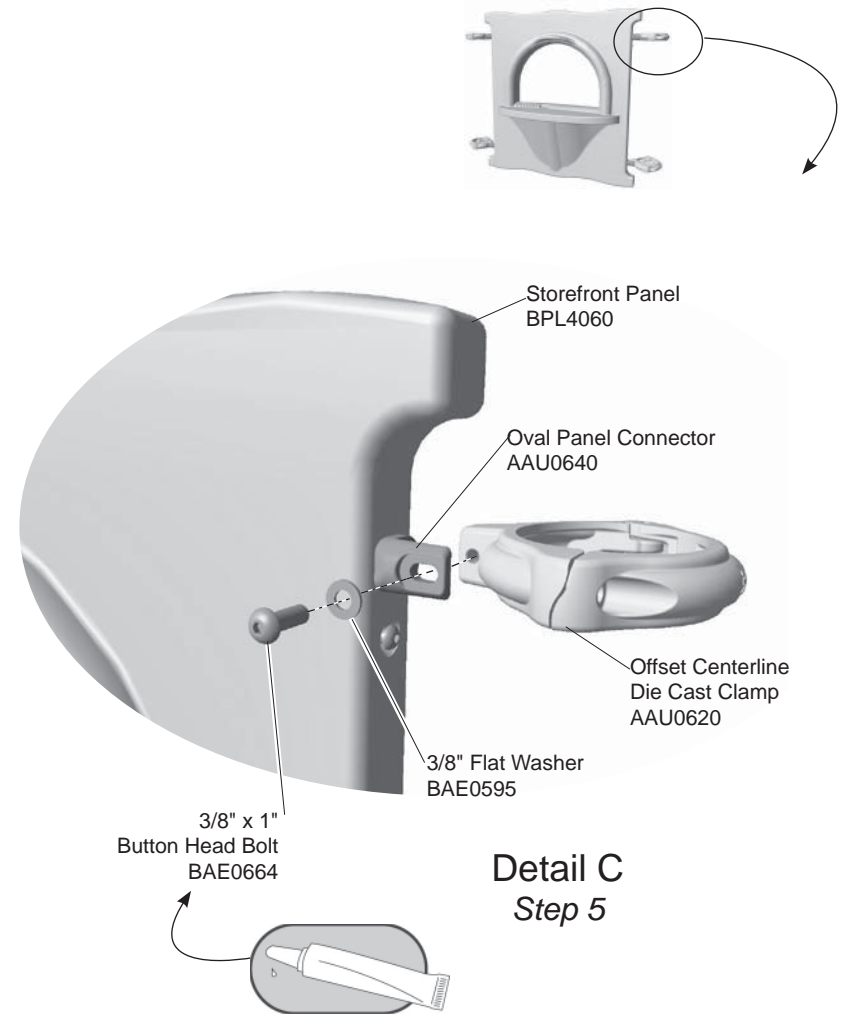
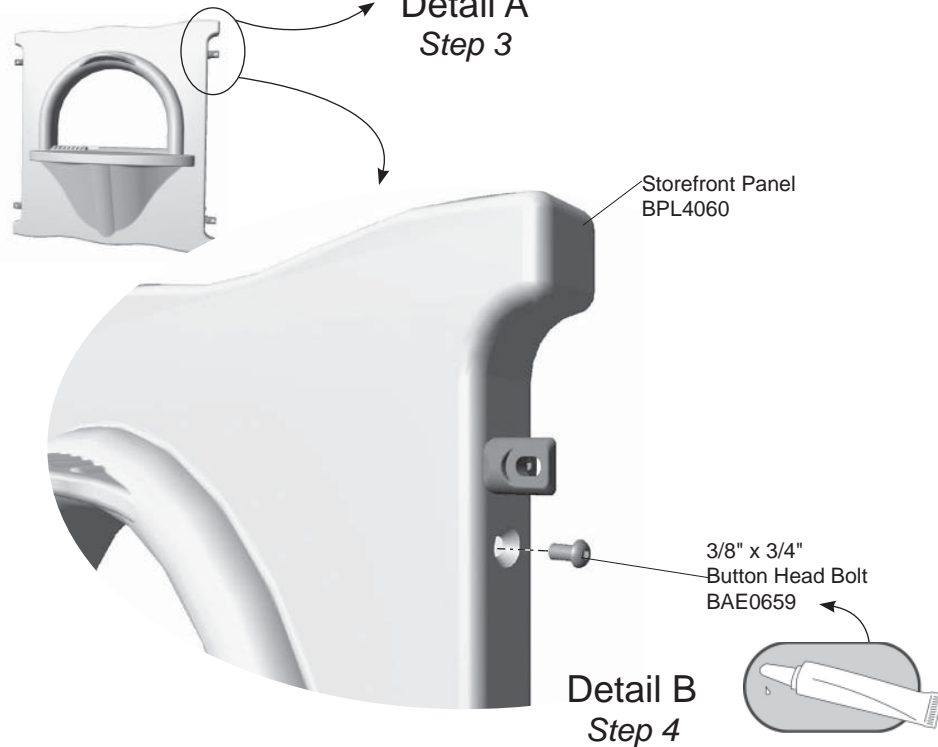


# Installation Instructions

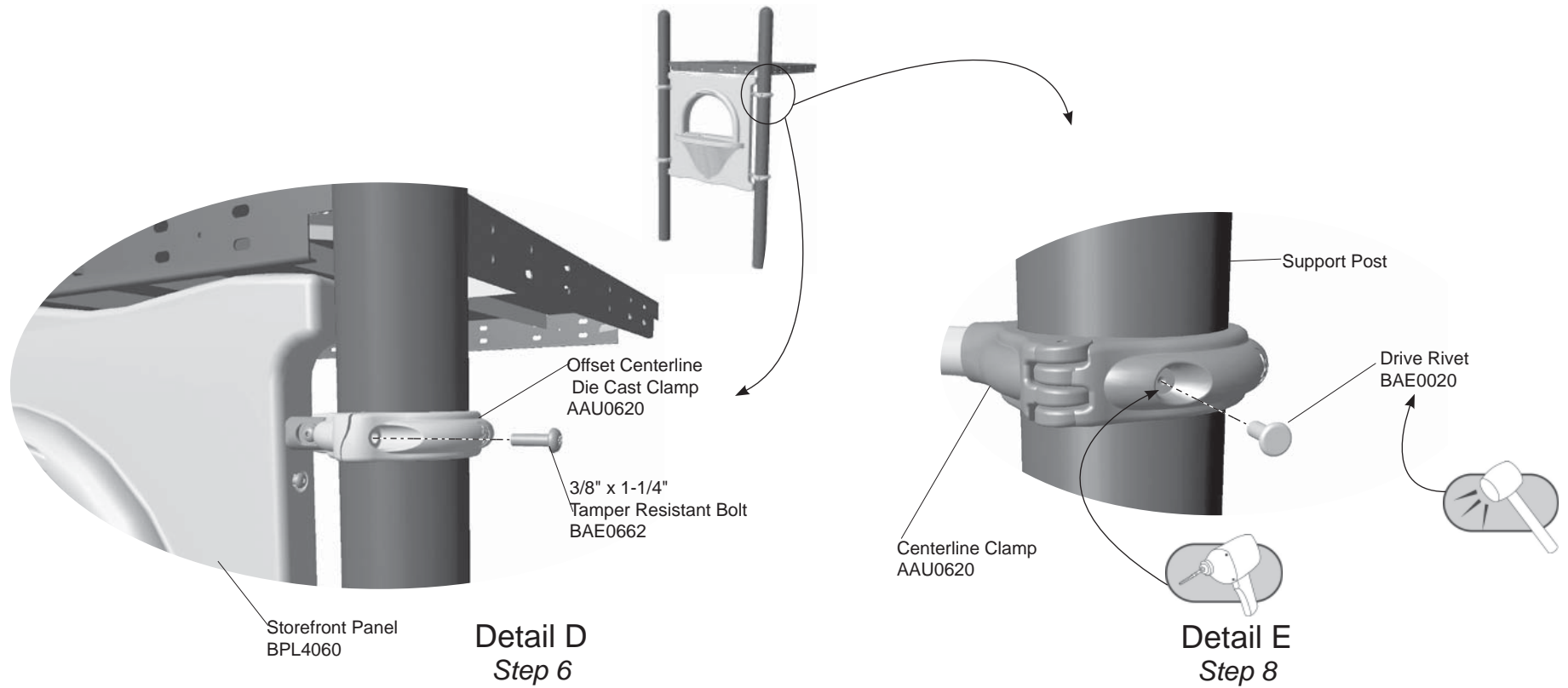
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



**Detail A**  
Step 3



# 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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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




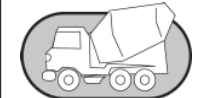
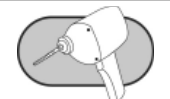

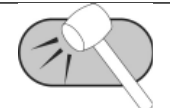
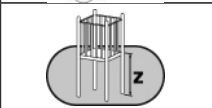
Universal Models UN4279, UN4280,  
UN4438, & UN4439

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

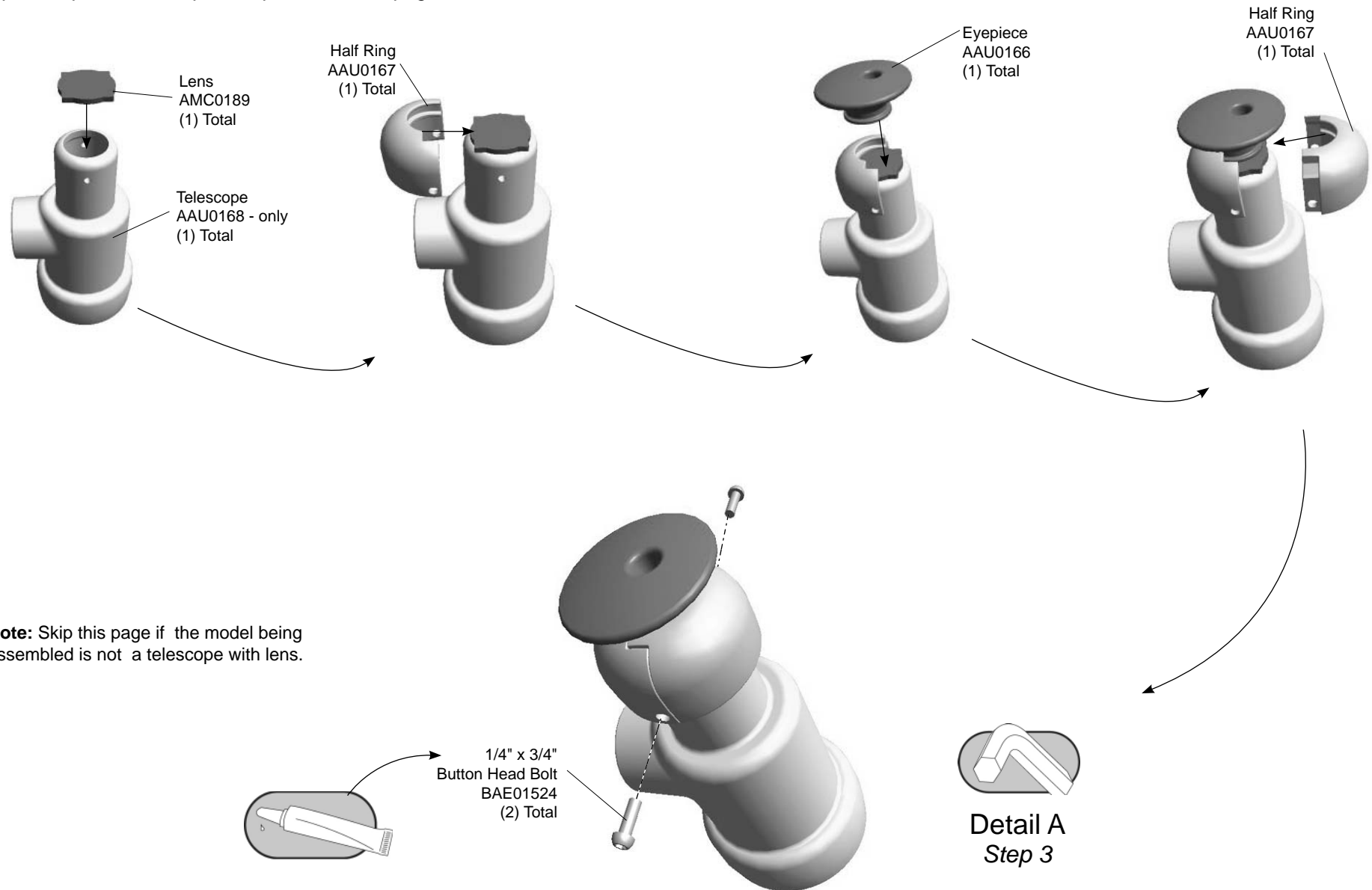
### ICON KEY

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

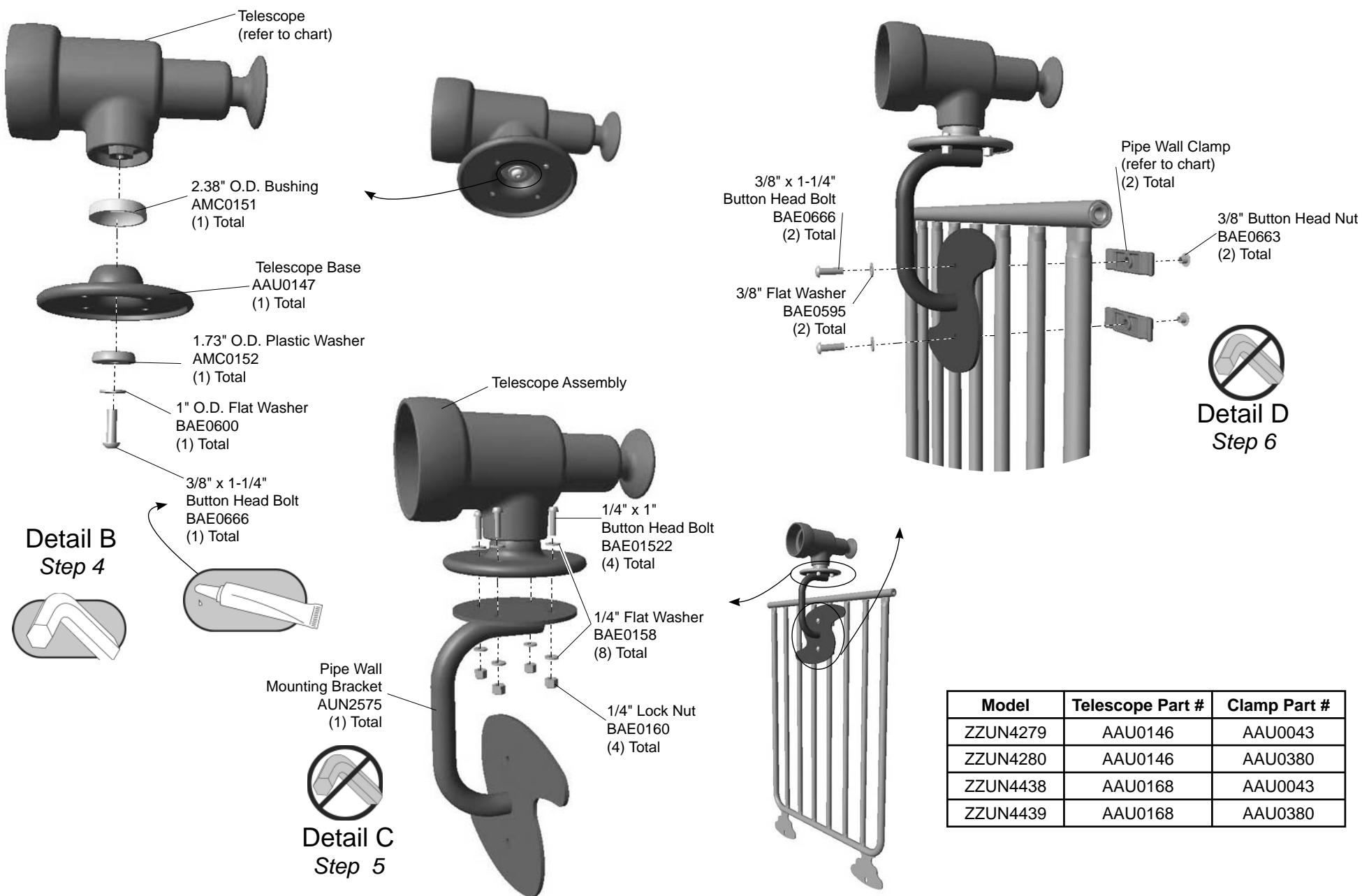


# Installation Instructions

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



# 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.

**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.

## 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

## 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

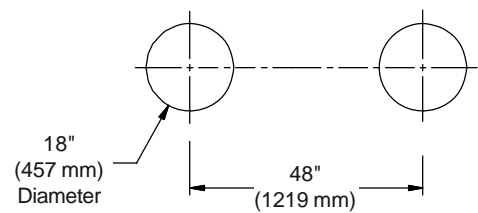
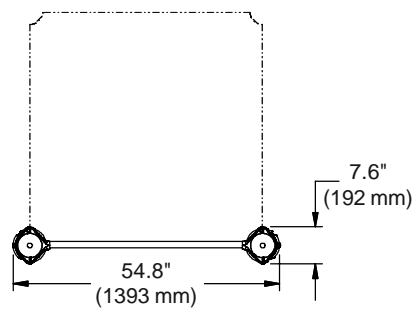
**Installation Preparation**

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

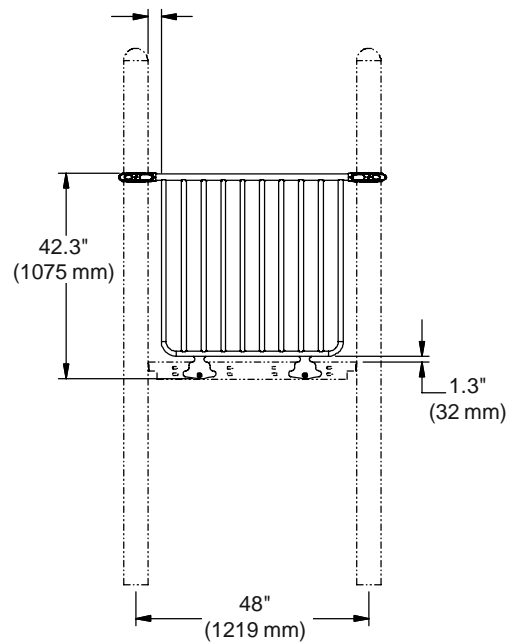
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

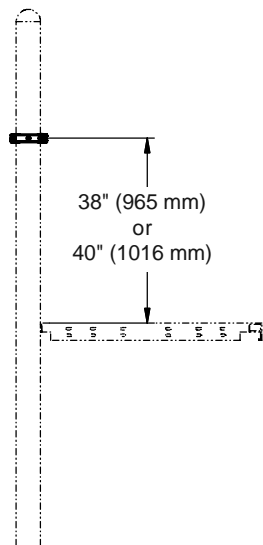
Top View



Footing Diagram

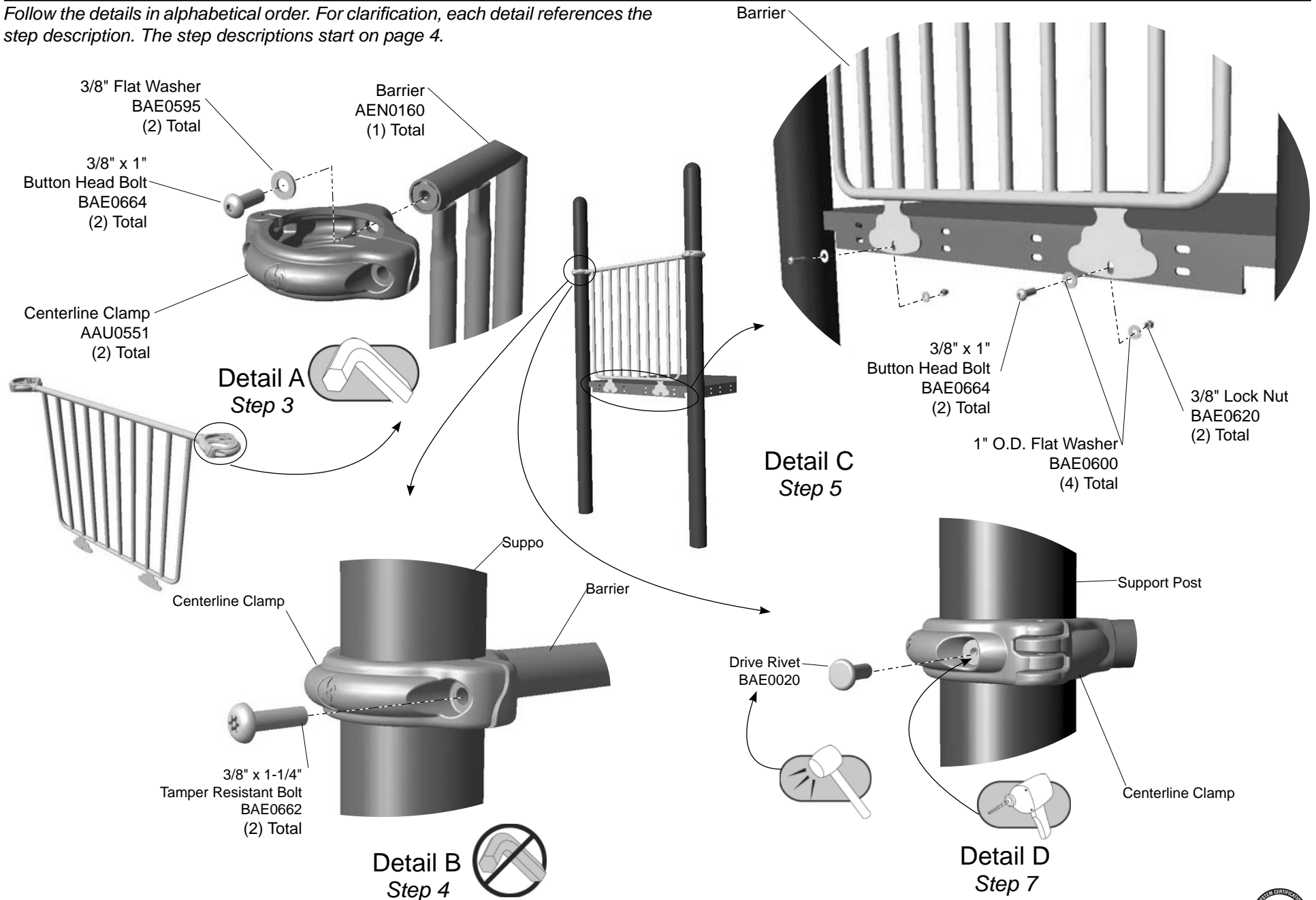


Elevation View



# 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.

**Attach the clamps to the barrier.**

**Step 3:** See **Detail A**. Attach as 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.

## 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

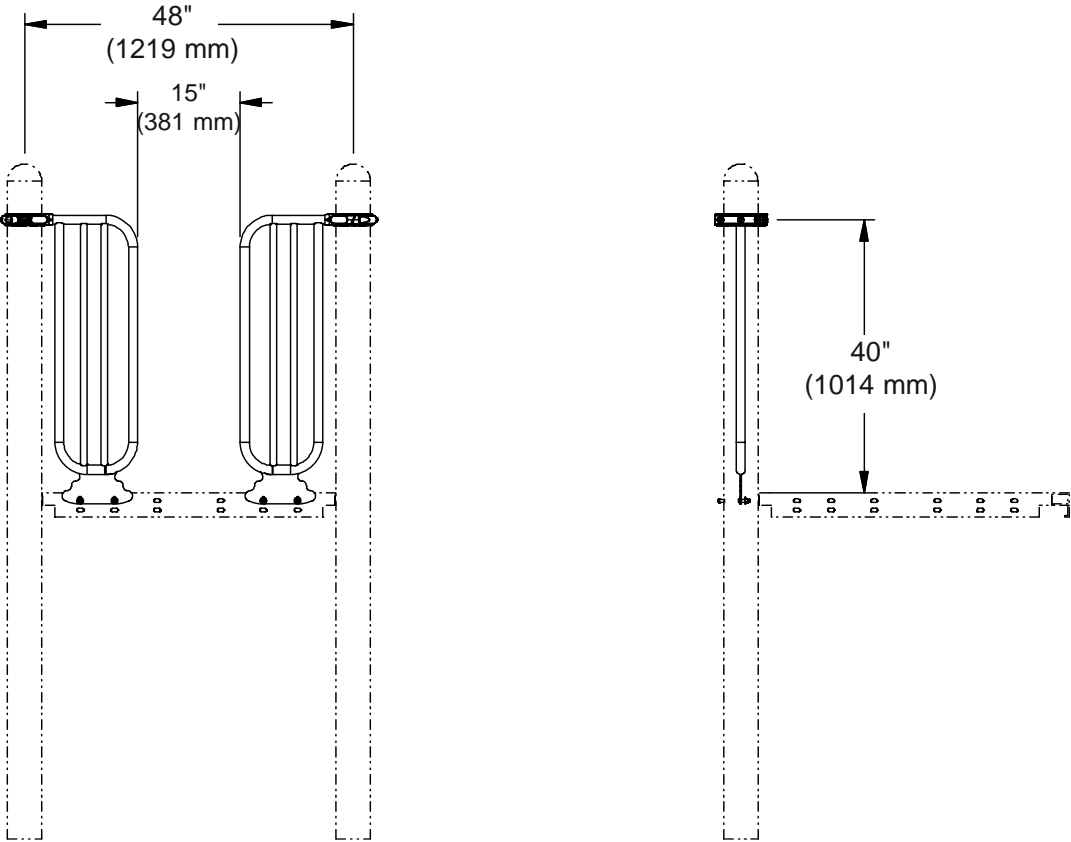
Installation Instructions  
Playmakers® Model PM4288  
Compliance Access Gate

**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
	Do <b>Not</b> Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

# Installation Instructions

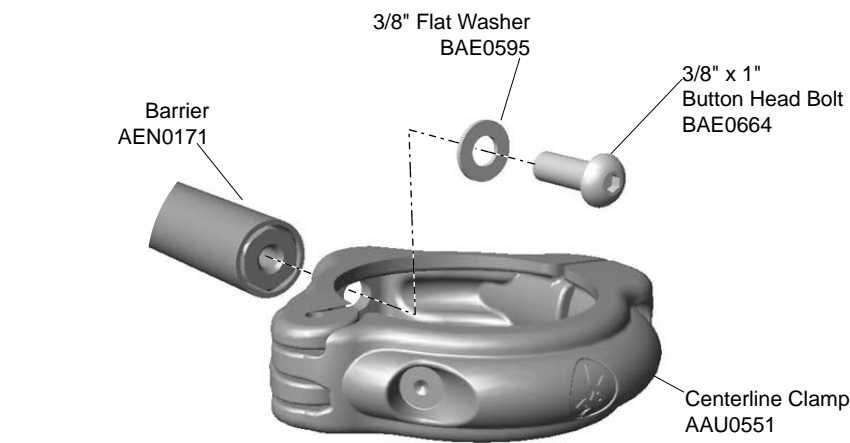


Elevation View

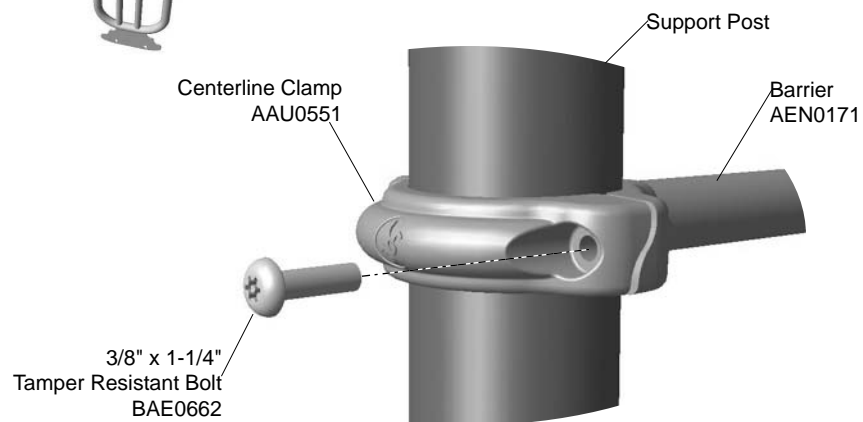


# Installation Instructions

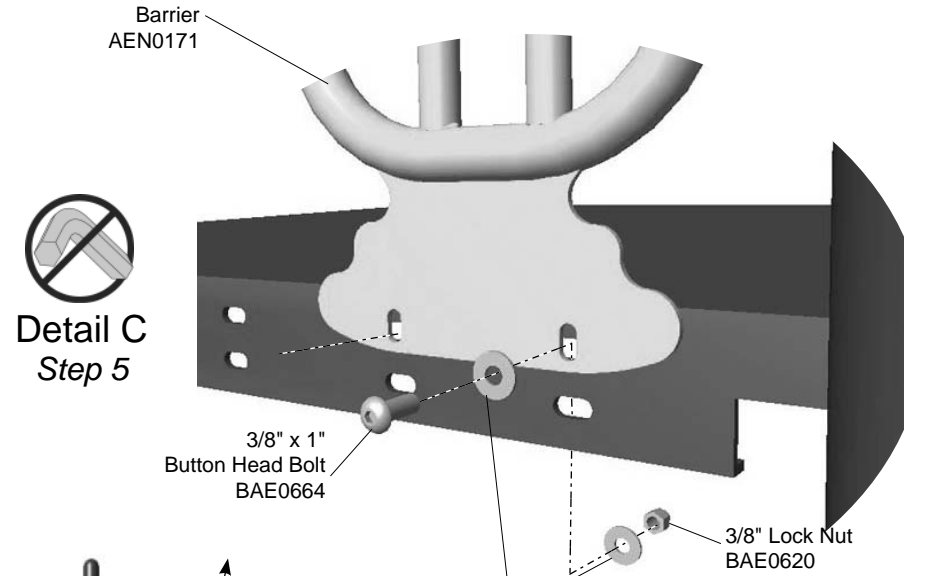
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



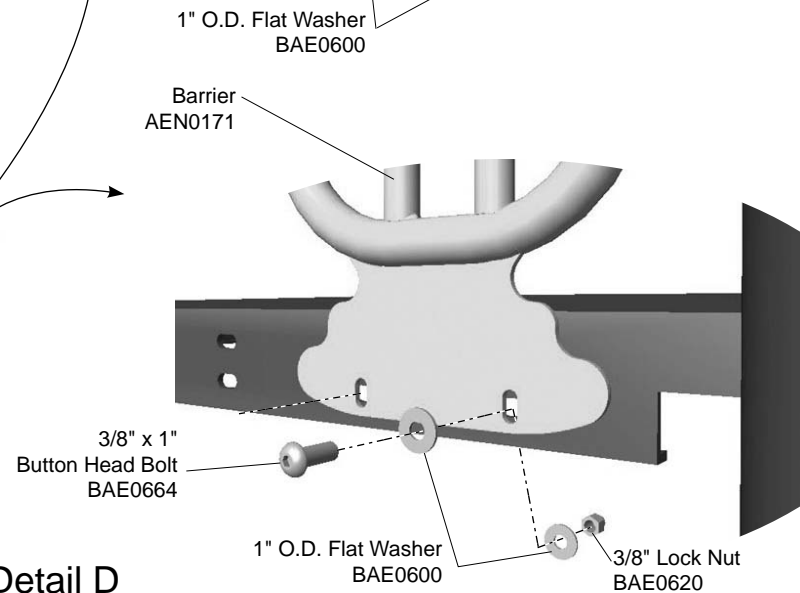
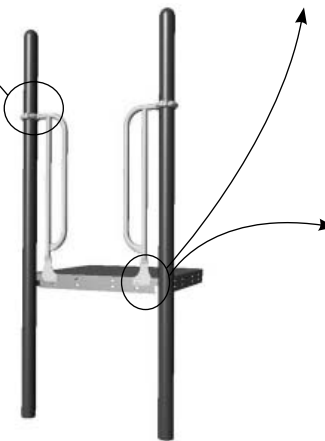
**Detail A**  
Step 3



**Detail B**  
Step 4



**Detail C**  
Step 5



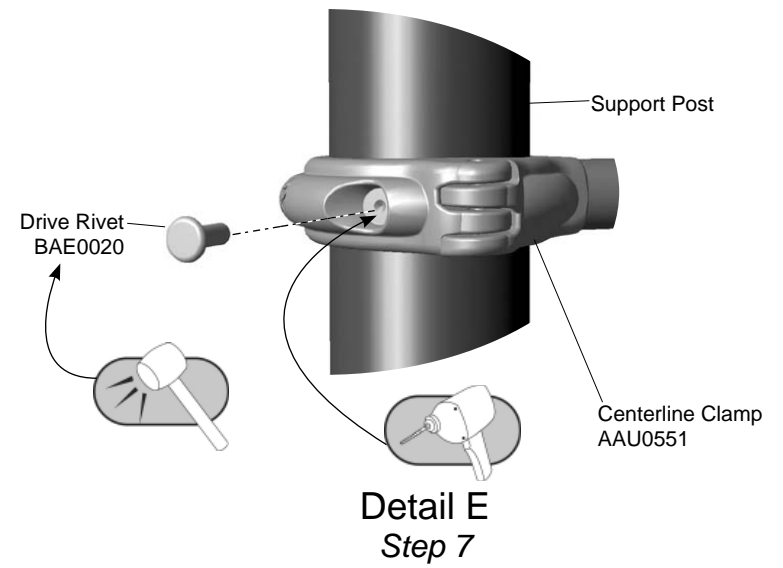
**Detail D**  
Step 5

# Installation Instructions

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*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.

**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.

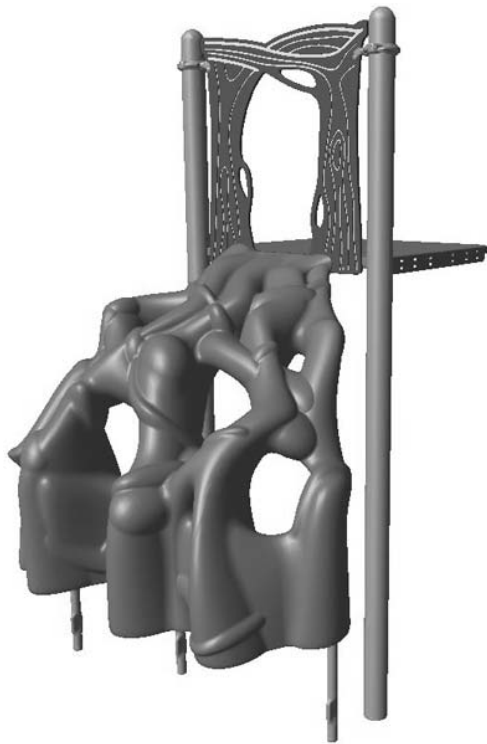


## PM4288 - COMPLIANCE ACCESS GATE

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	Weight
ZZPM6827	156 lbs. (70,9 kg)
ZZPM6827S	154 lbs. (70 kg)

## Installation Instructions

Playmakers® Models PM6827 and PM6827S

Wildwood Climber 5 ft. (1524 mm) Deck

In-Ground and Surface Mount

### Installation Preparation

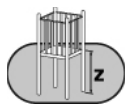
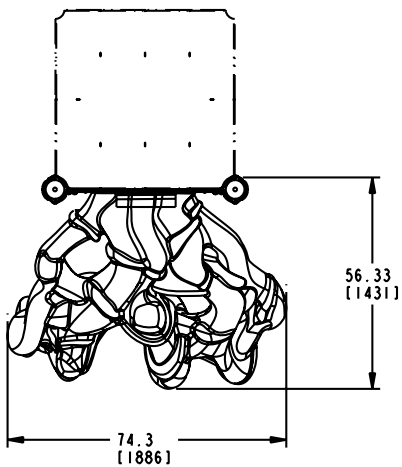
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 2.5 man-hours (in-ground)  
 Installation Time: ..... 1 man-hour (surface mount)  
 Weight: ..... (refer to table)  
 Concrete Required: ..... 0.09 cubic yard (0,06 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

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

# Installation Instructions

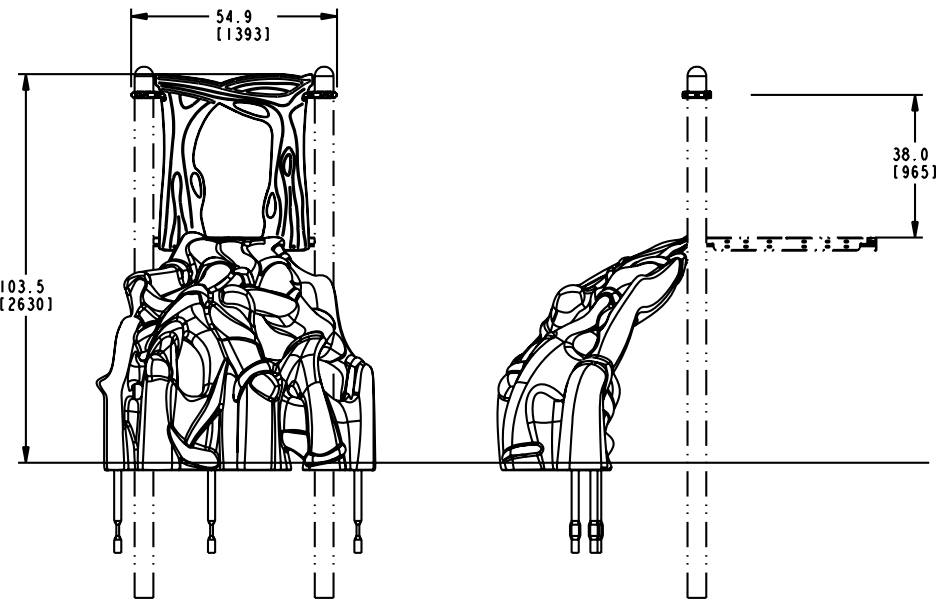
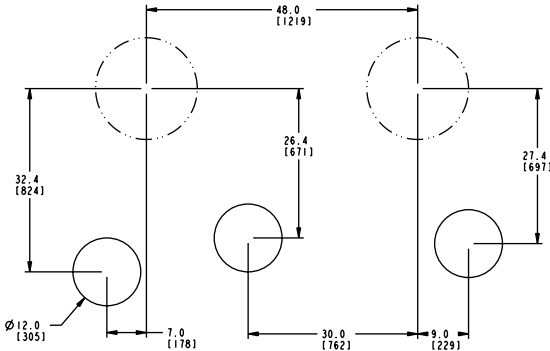
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

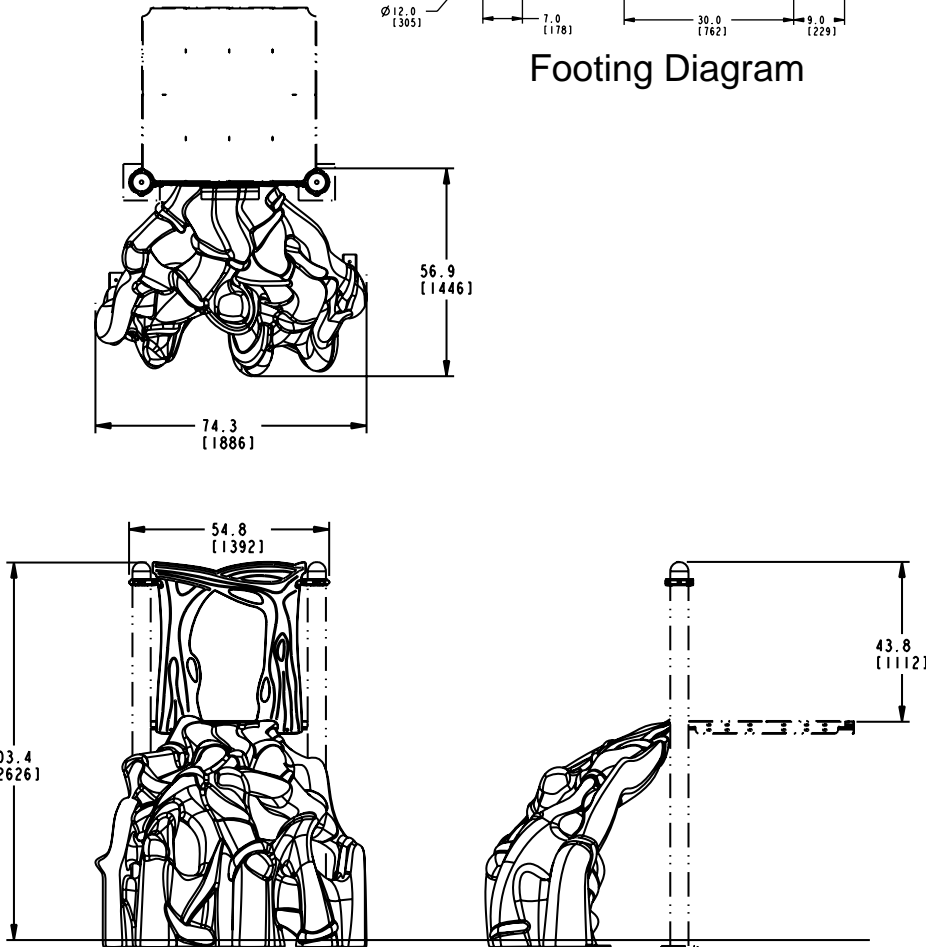


EN: 1525 mm

Footing Diagram



Elevation Views (PM6827)

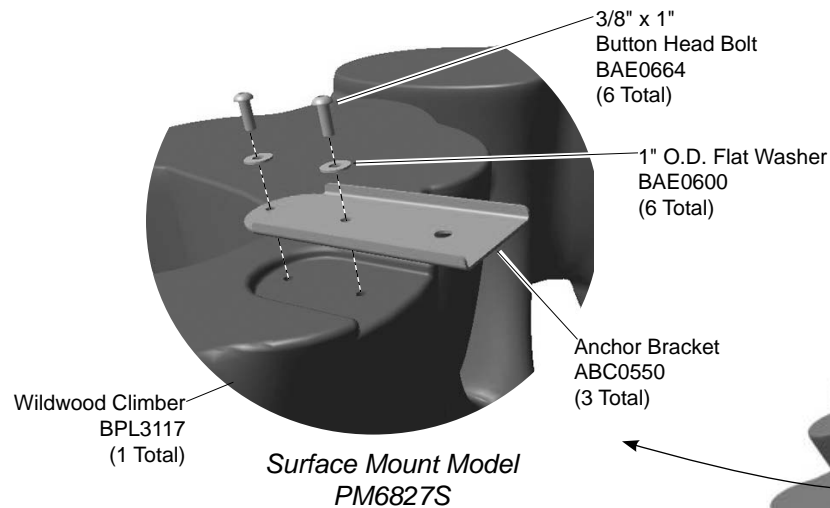
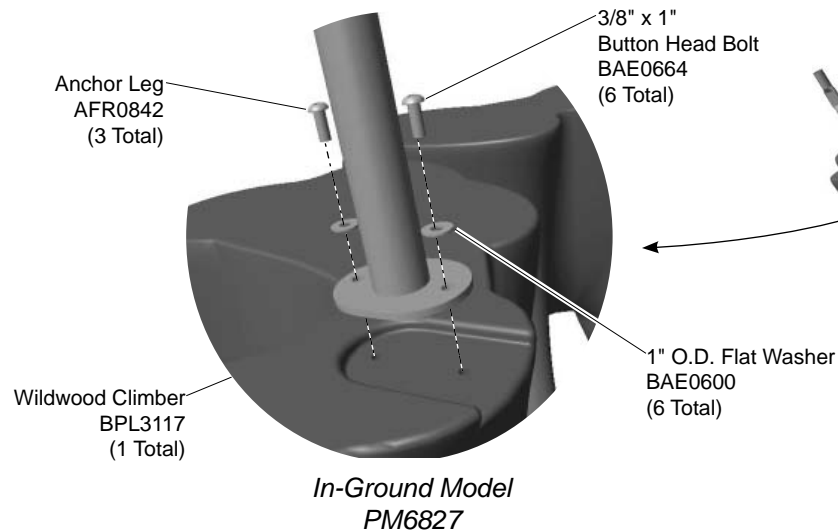


Elevation Views (PM6827S)

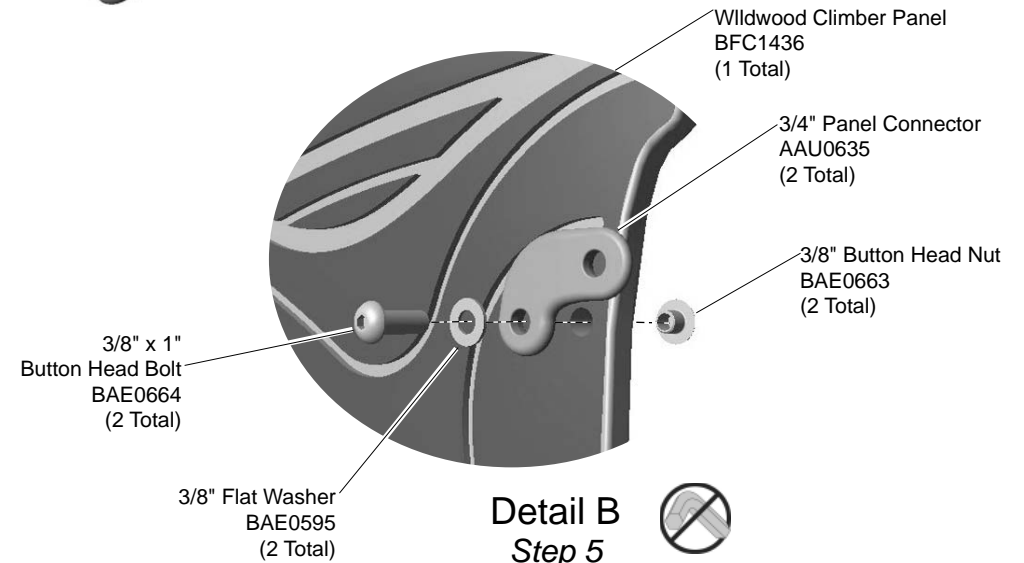
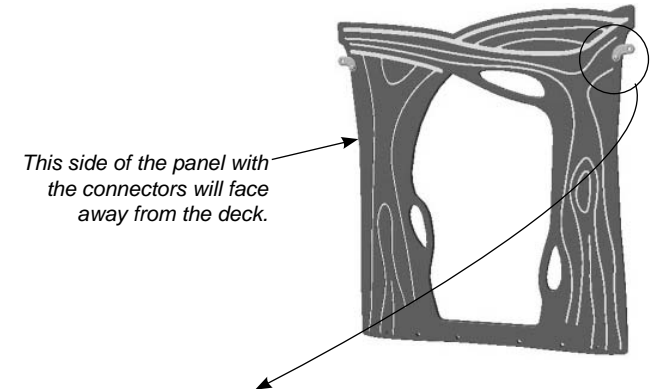
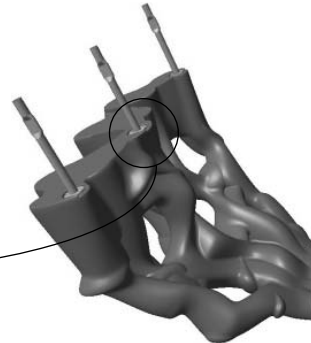


# Installation Instructions

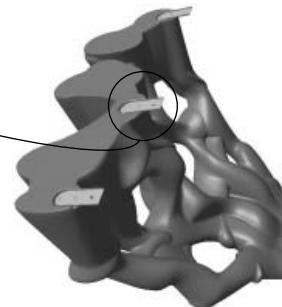
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



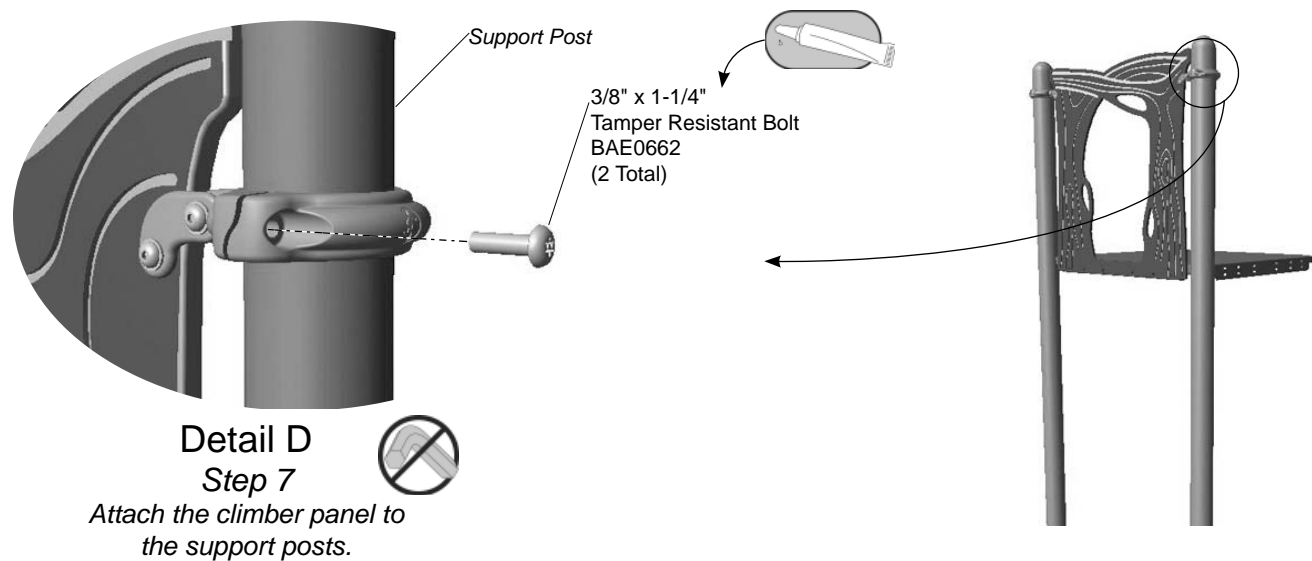
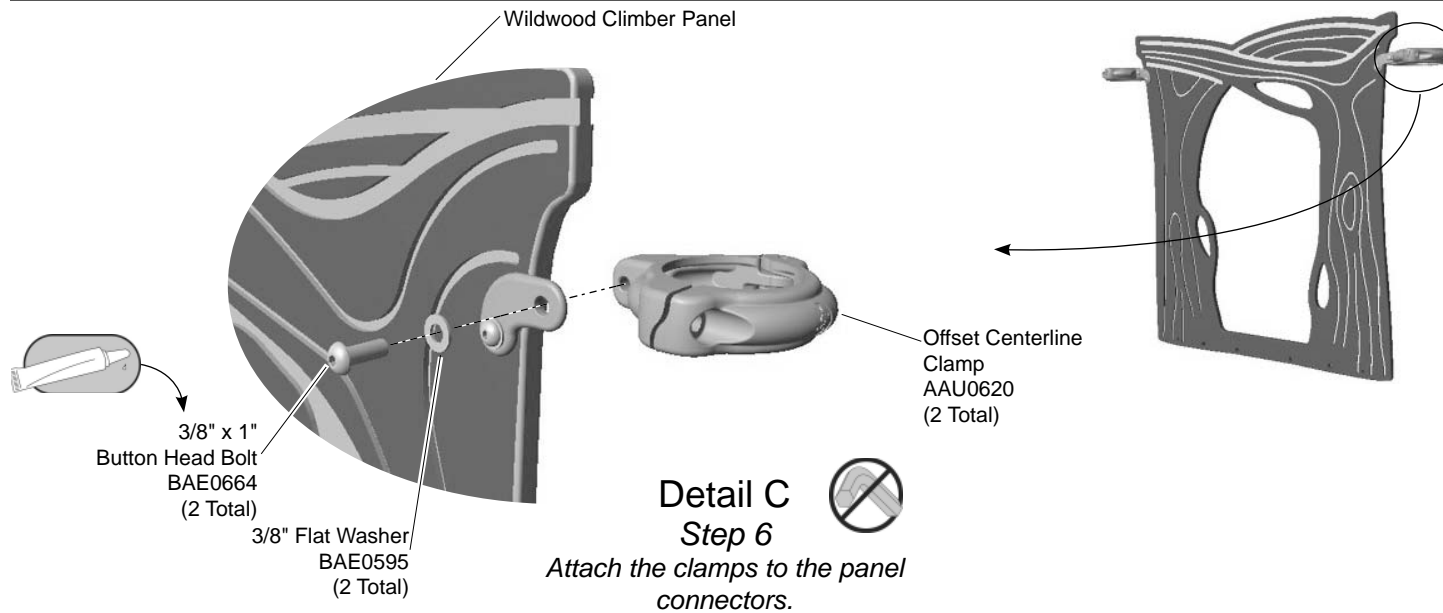
**Detail A**  
**Step 4**  
 Attach the anchor legs/brackets to the climber.



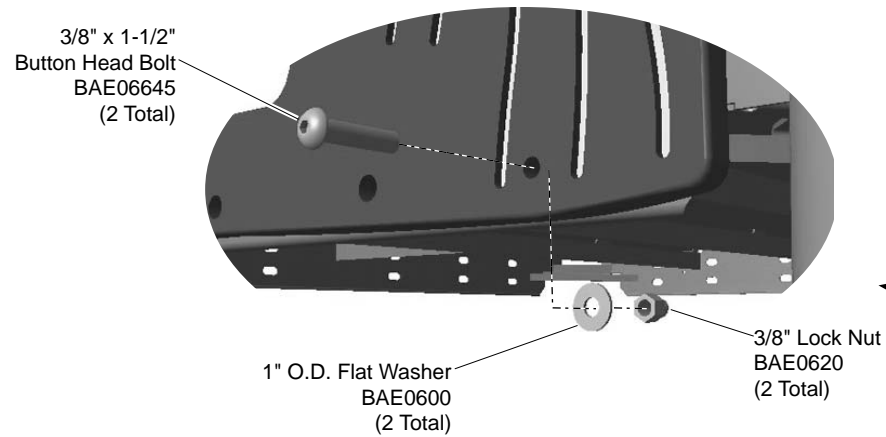
Attach the panel connectors to the climber panel.



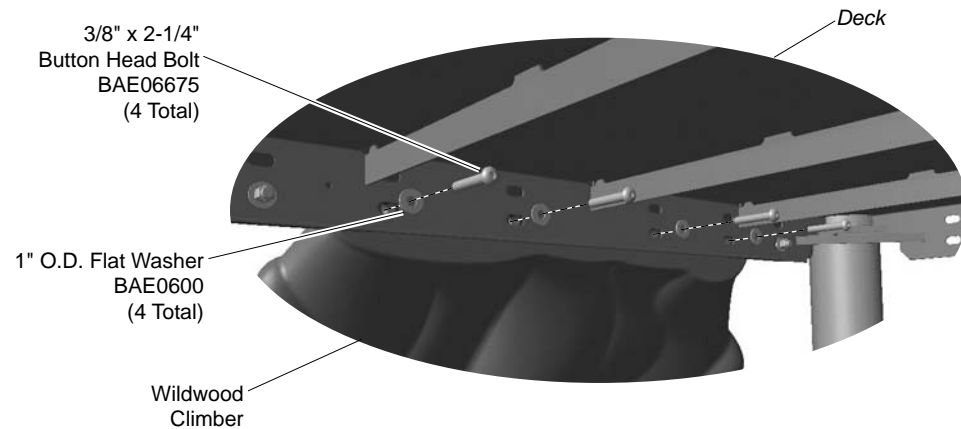
# Installation Instructions



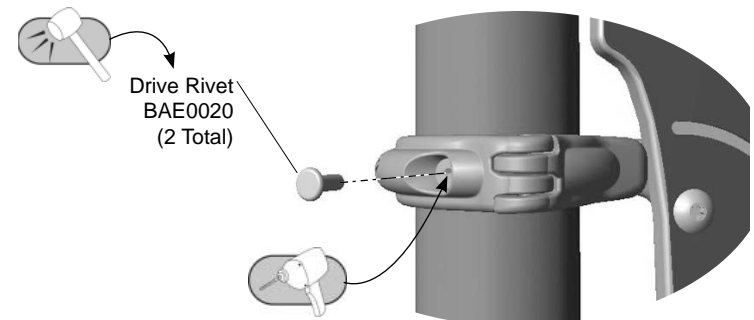
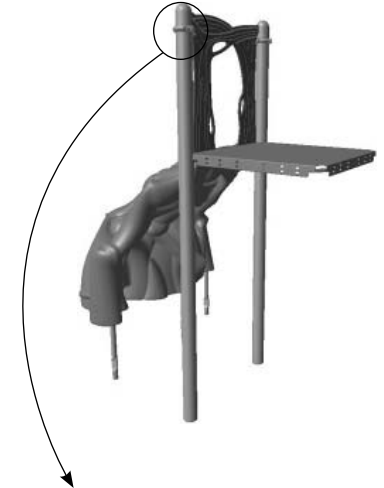
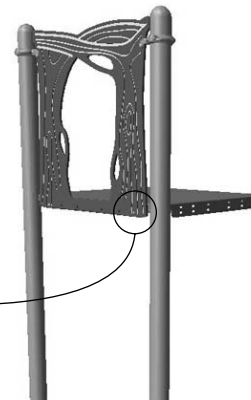
# Installation Instructions



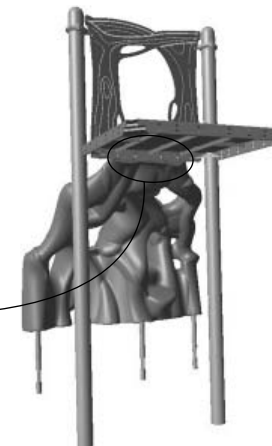
**Detail E**  
**Step 8**  
*Attach the climber panel to the deck.*



**Detail F**  
**Step 9**  
*Attach the climber to the climber panel and deck.*



**Detail G**  
**Step 11**  
*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 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 / prepare footings as shown in the **Footing Details** shown in the *Guidelines* at the beginning of the instruction booklet. Use the footing detail for a **Component** for the in-ground model.

**Step 4:** Attach the anchor leg, or bracket, to the Wildwood climber. See **Detail A** and reference the appropriate model. Position each anchor into an indent on the bottom of the climber and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

**Step 5:** Attach the panel connectors to the climber panel. See **Detail B**. Position the short leg on each panel connector against a top hole on the panel. Align the connectors with the holes and attach as shown. Leave the connections loose.

**Step 6:** Attach the clamps to the panel connectors. See **Detail C**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

**Step 7:** Attach the panel to support posts. See **Detail D** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and 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. Both 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.

**Step 8:** Attach the panel to the deck. See **Detail E**. Align the **bottom outside** holes in the panel with the **lower outside holes** in the deck and attach as shown.

**Step 9:** Attach the climber to the deck. See **Detail F**. Position the climber into, or onto, it's footings with the top of the climber against the panel and deck. Attach the climber and panel to the **lower holes in 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.



## PM6827 - WILDWOOD CLIMBER 5 ft. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0842	FRAME - 22.50" x 4.75" x 3.75"	3
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	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR 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	10
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BFC1436	PANEL - ROOTS CLIMBER (PM)	1
BPL3117	CLIMBER - NATURE THEME ROOTS	1

## PM6827S - SURFACE MOUNT WILDWOOD CLIMBER 5 ft. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
ABC0550	BRACKET - .50" x 3.75" x 10.00"	3
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	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR 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	10
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BFC1436	PANEL - ROOTS CLIMBER (PM)	1
BPL3117	CLIMBER - NATURE THEME ROOTS	1



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Assembly View (representative models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	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

### 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)

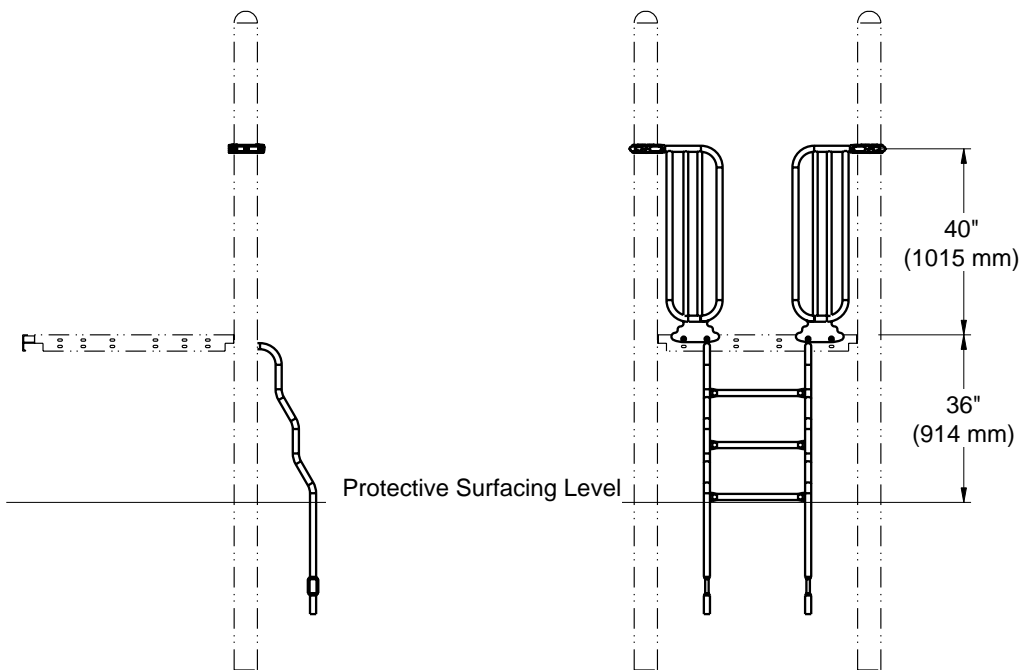
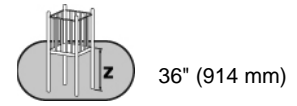
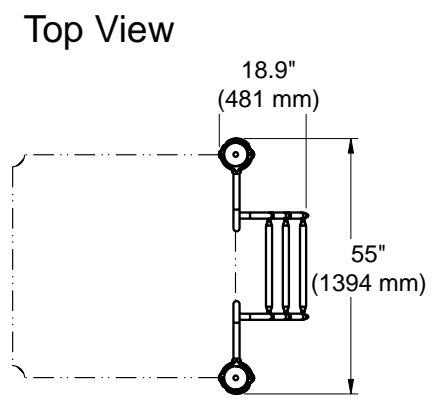
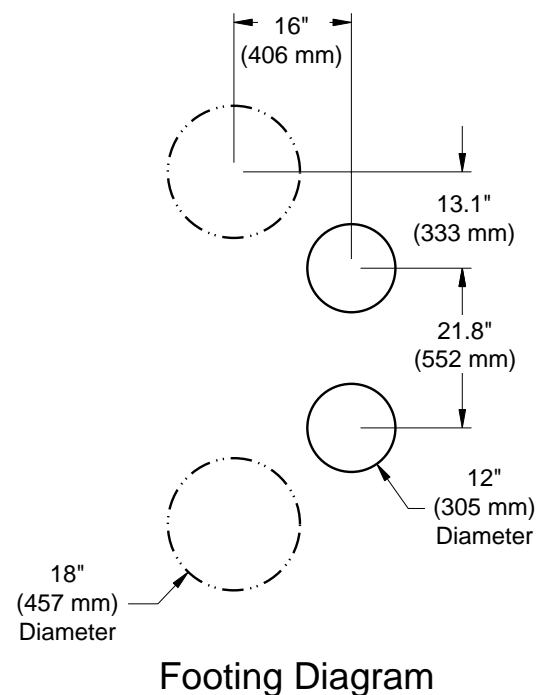
### Installation Preparation

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 <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

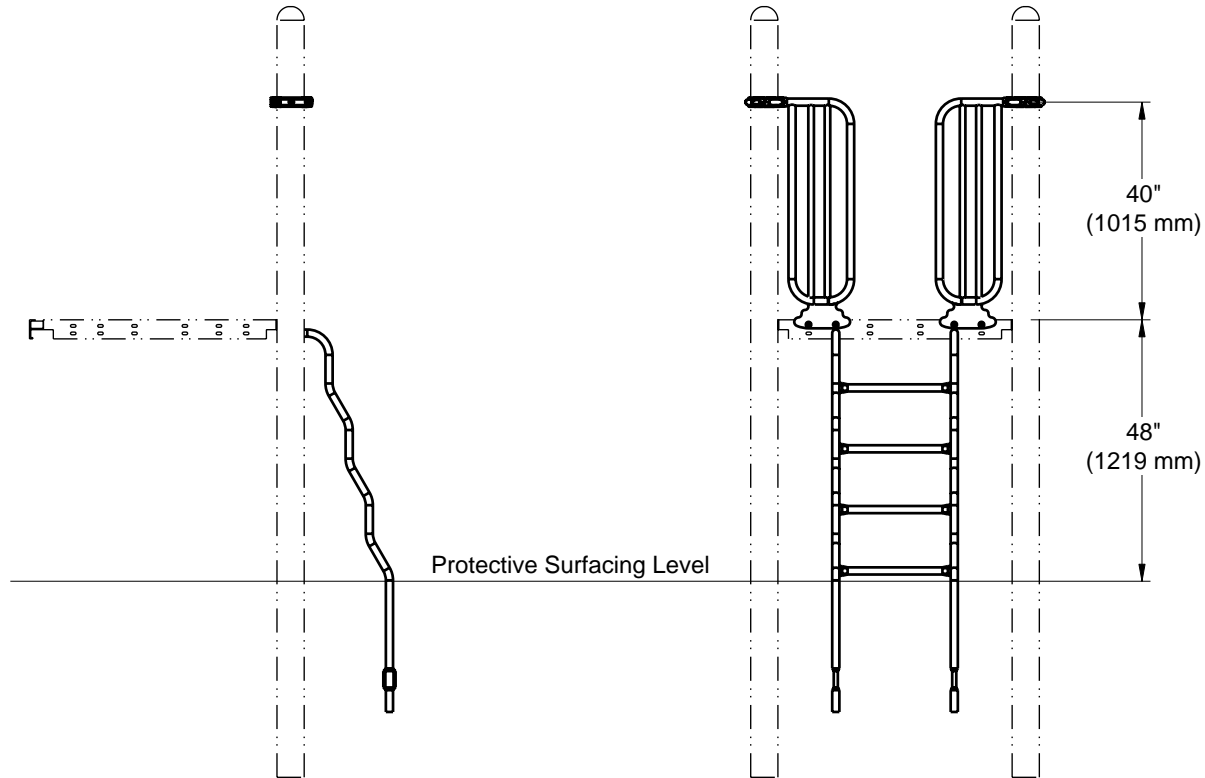
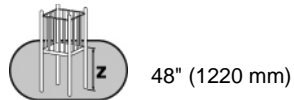
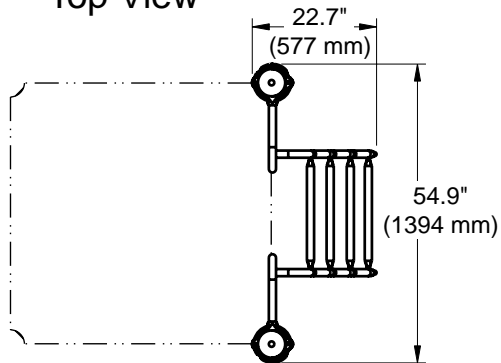
# Installation Instructions



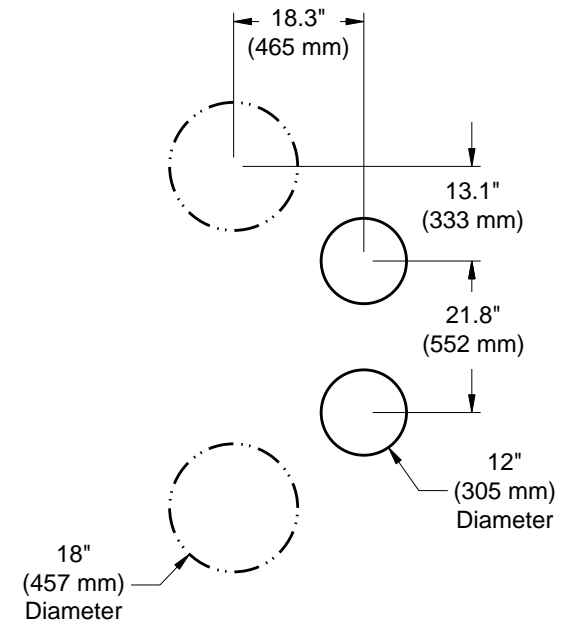
Elevation View  
36" (914 mm) Deck

# Installation Instructions

Top View



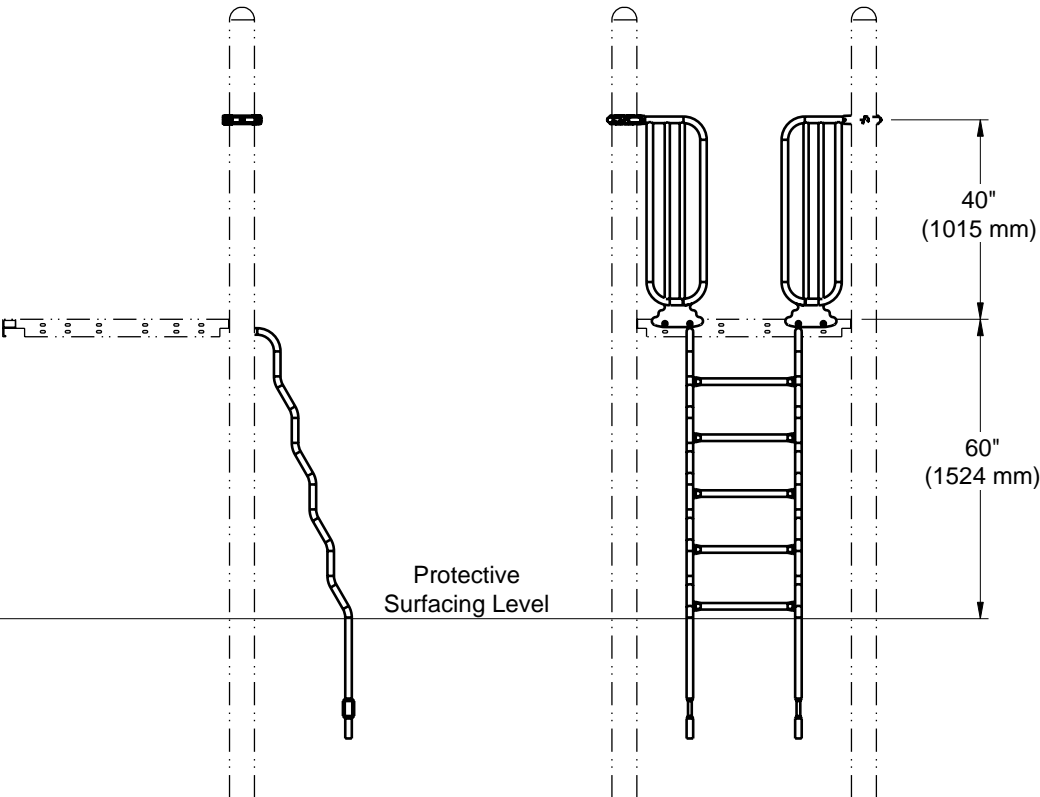
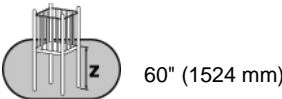
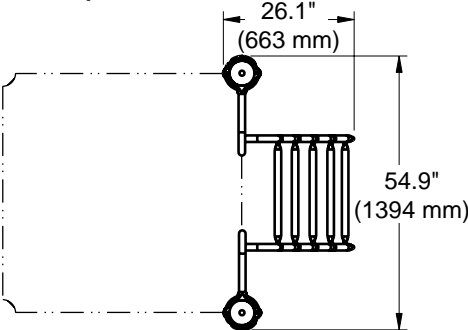
Elevation View  
48" (1219 mm) Deck



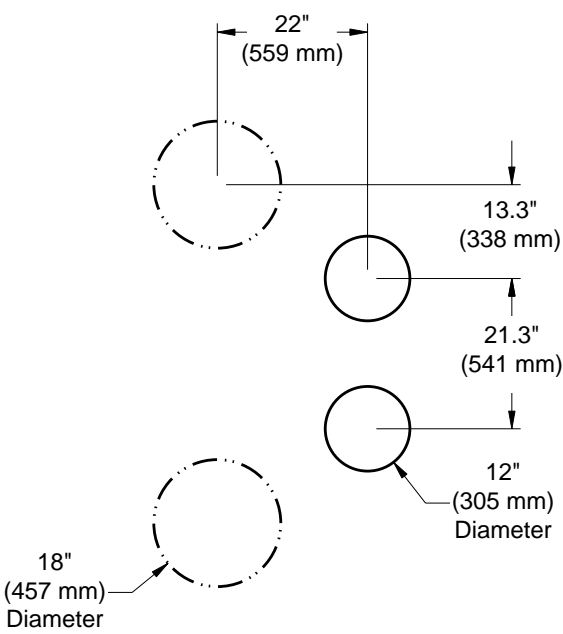
Footing Diagram

# Installation Instructions

Top View



Elevation View  
60" (1524 mm) Deck

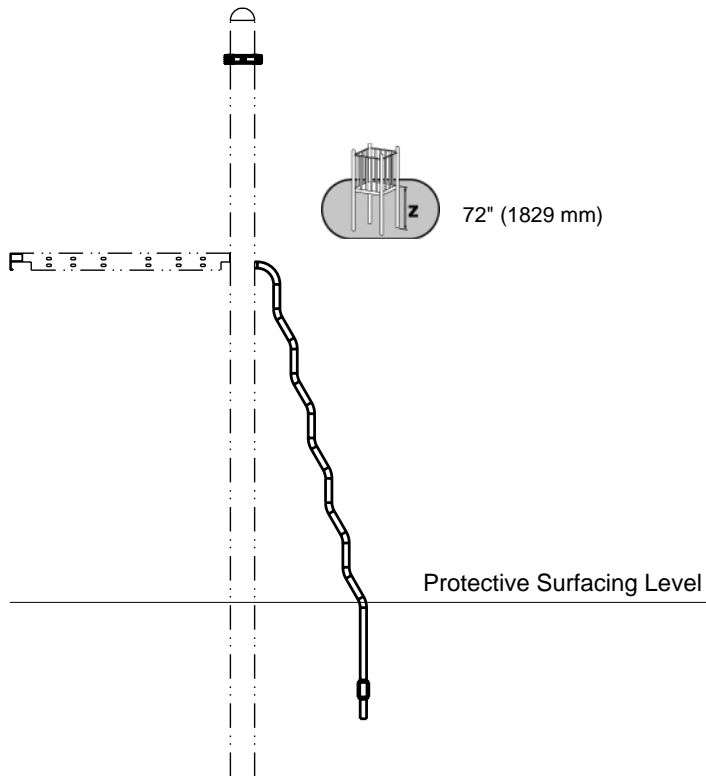
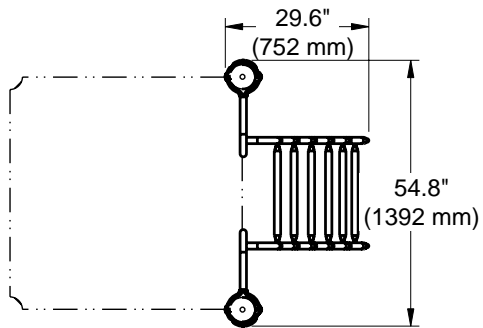


Footing Diagram

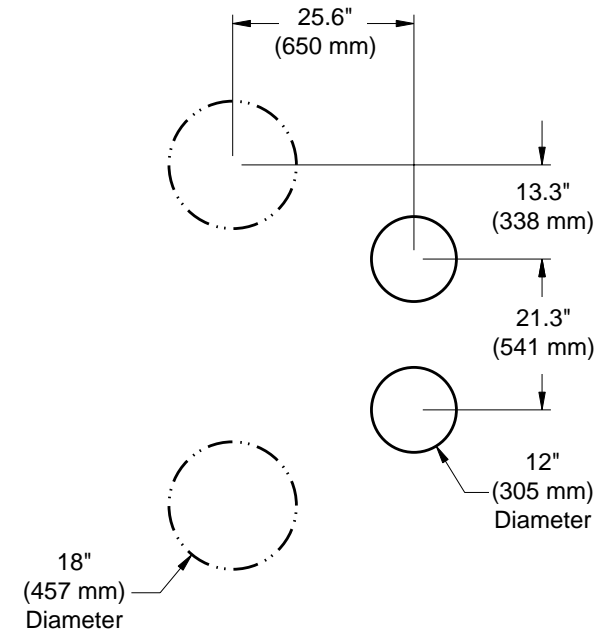
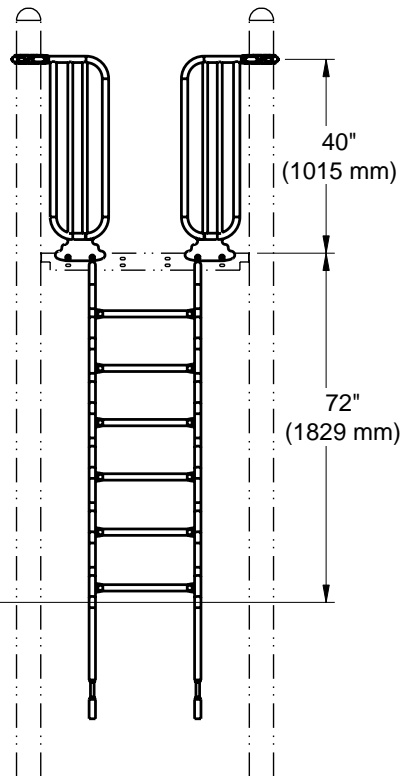


# Installation Instructions

Top View



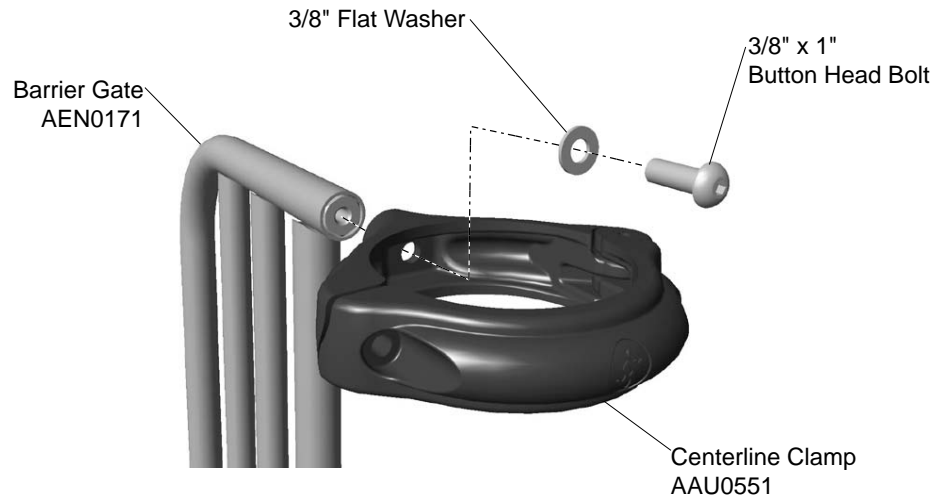
Elevation View  
72" (1829 mm) Deck



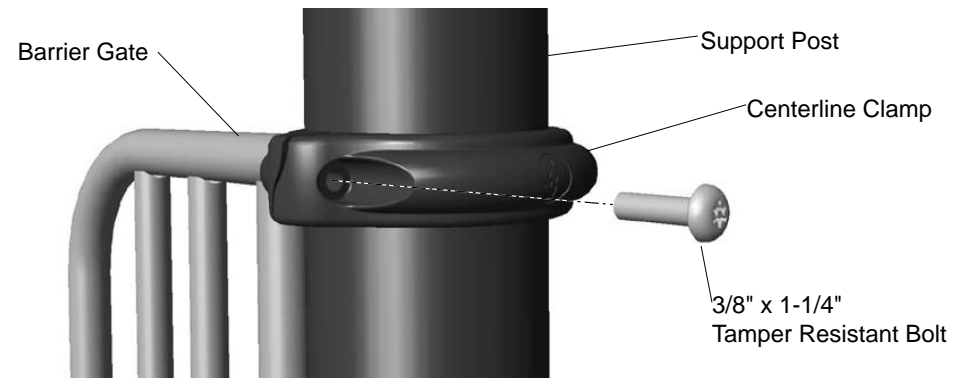
Footing Diagram

# Installation Instructions

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



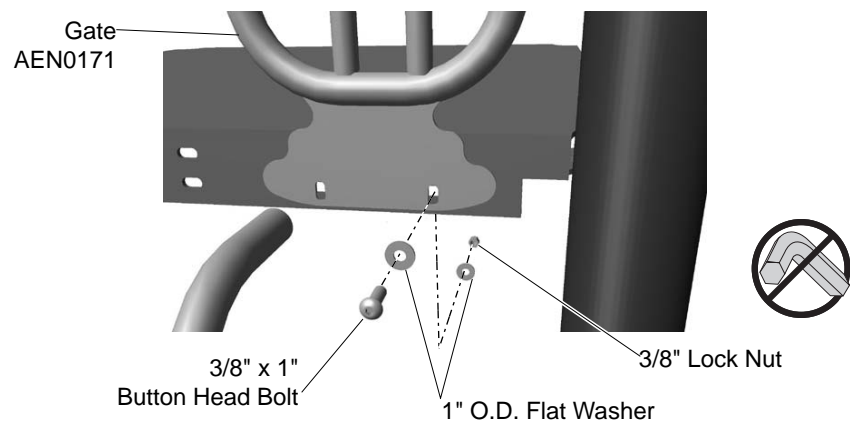
Detail A  
Step 5



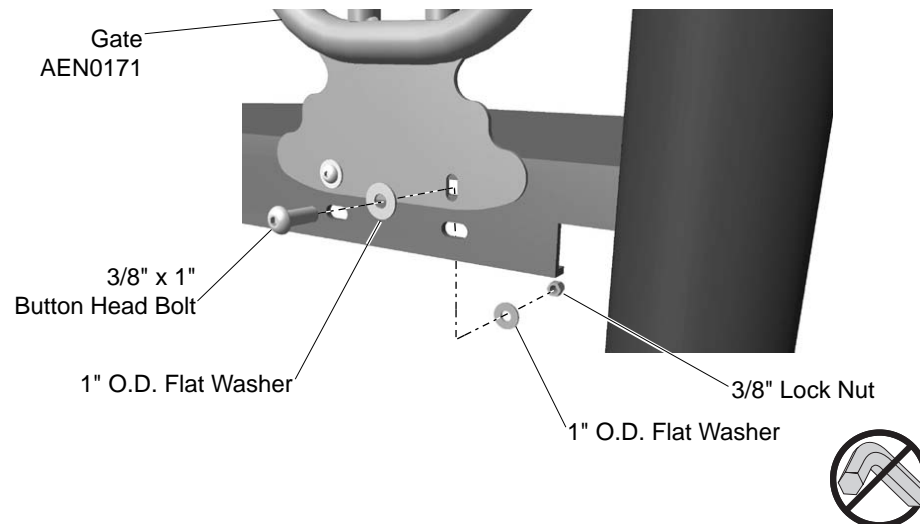
Detail B  
Step 6



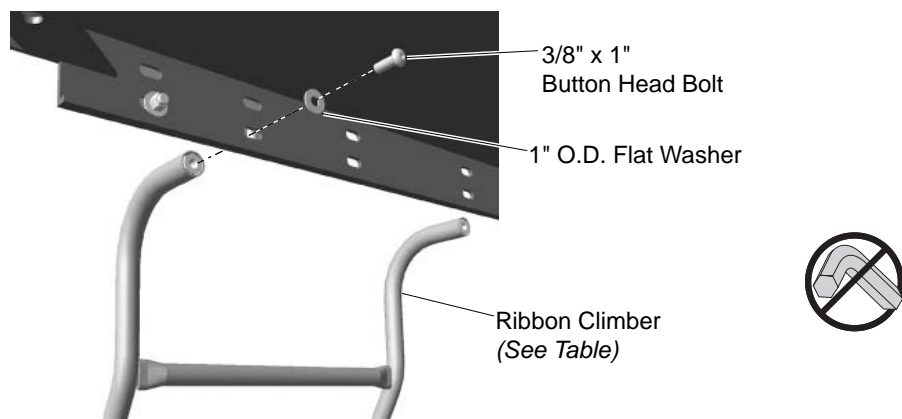
# Installation Instructions



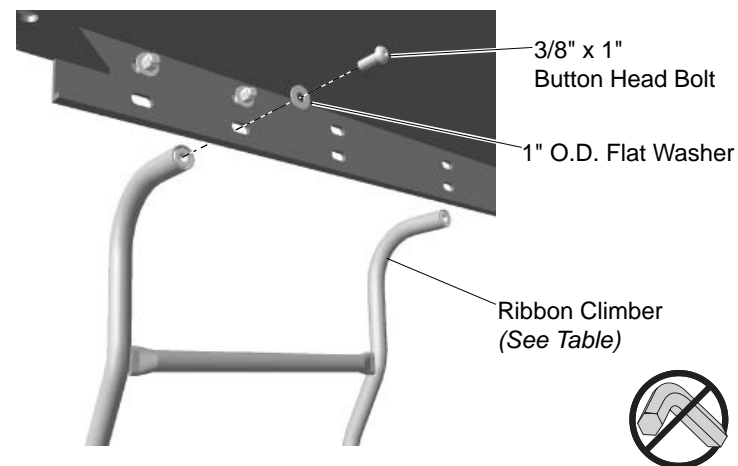
Gates in lower position



Gates in upper position

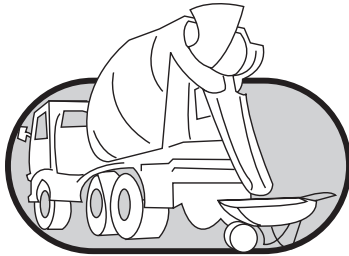


**Detail C**  
**Step 7**

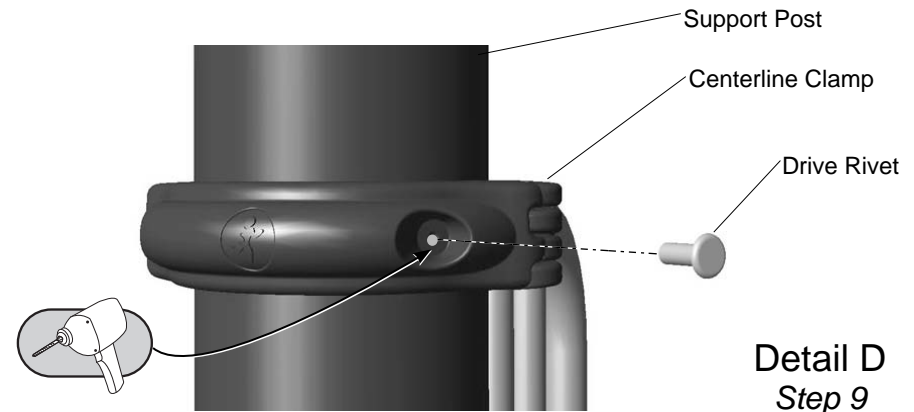


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

# Installation Instructions



*Step 8  
Pour Concrete*



*Detail D  
Step 9*

## 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 - 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

## 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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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

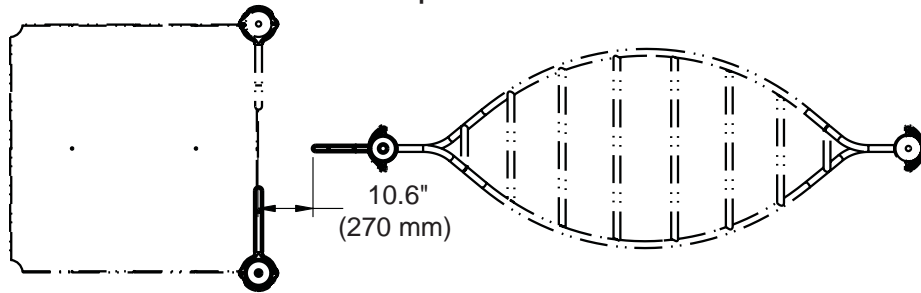
Recommended Crew: ..... One (1) adult  
 Installation Time: ..... 0.5 man-hour  
 Weight: ..... (refer to table)  
 Concrete Required: ..... 0.13 cubic yard (0,10 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

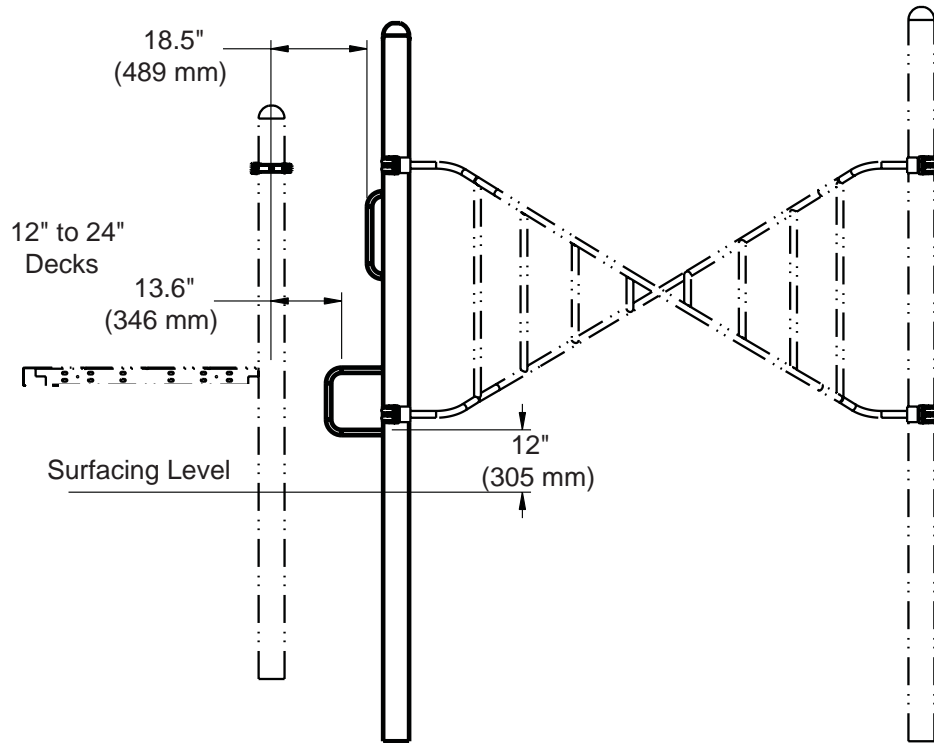
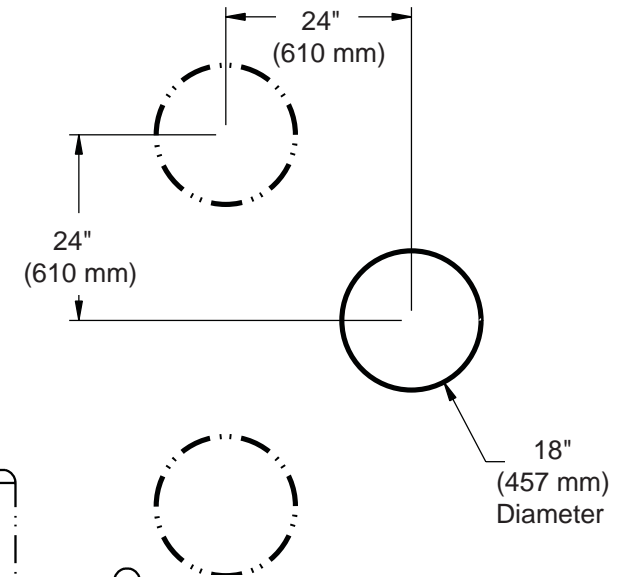
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

# Installation Instructions

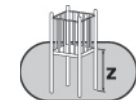
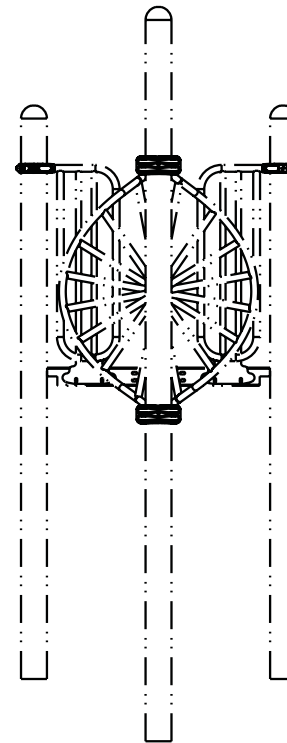
Top View



Footing Diagram



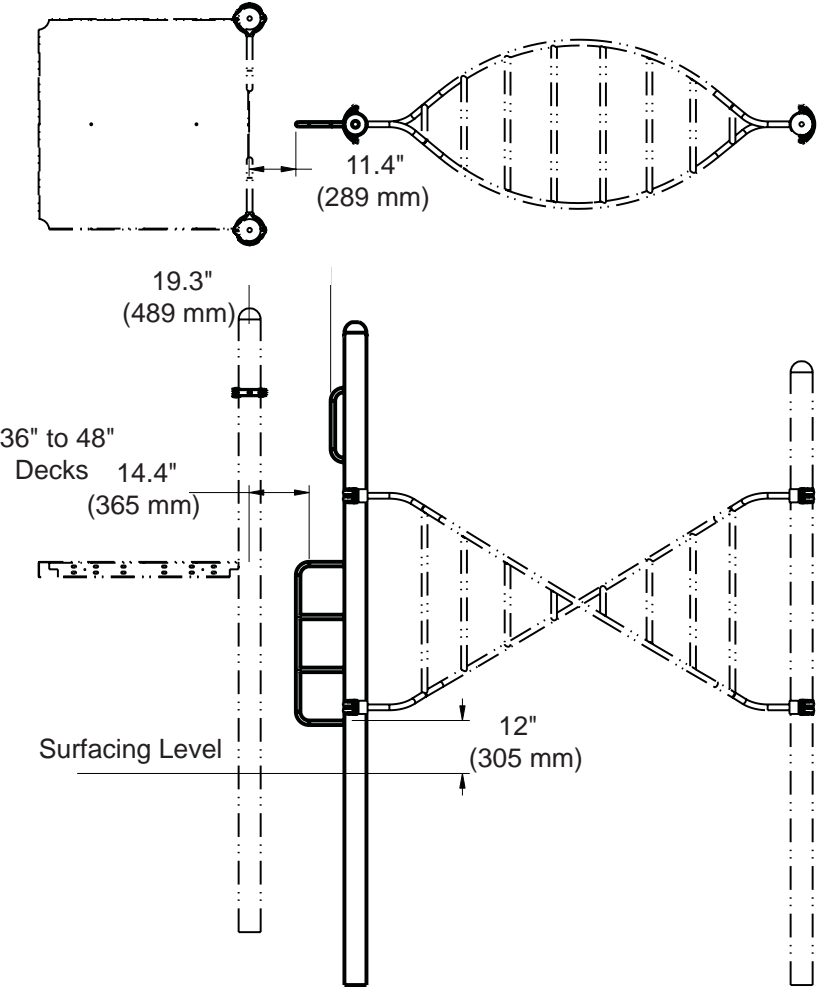
Elevation Views  
ZZPM0296



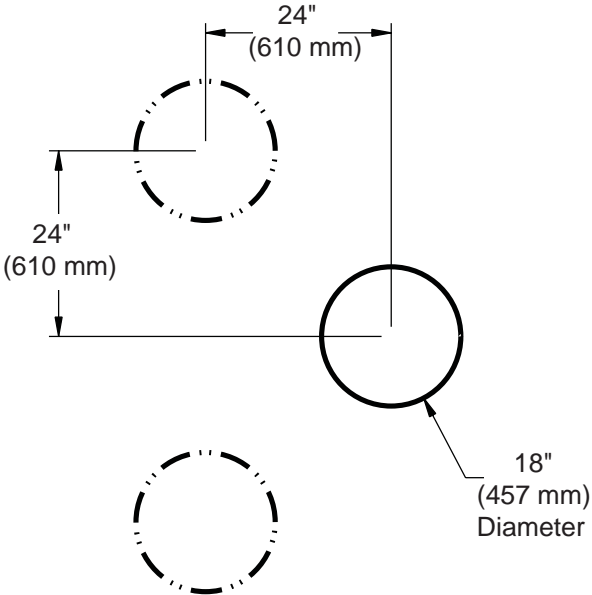
EN: 635 mm

# Installation Instructions

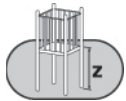
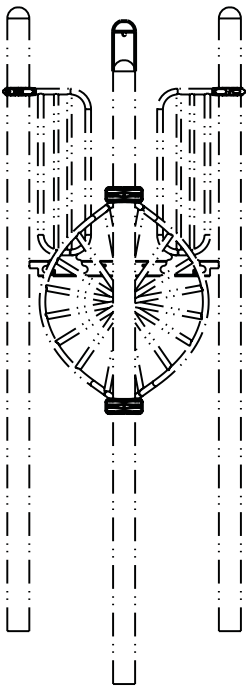
Top View



Footing Diagram



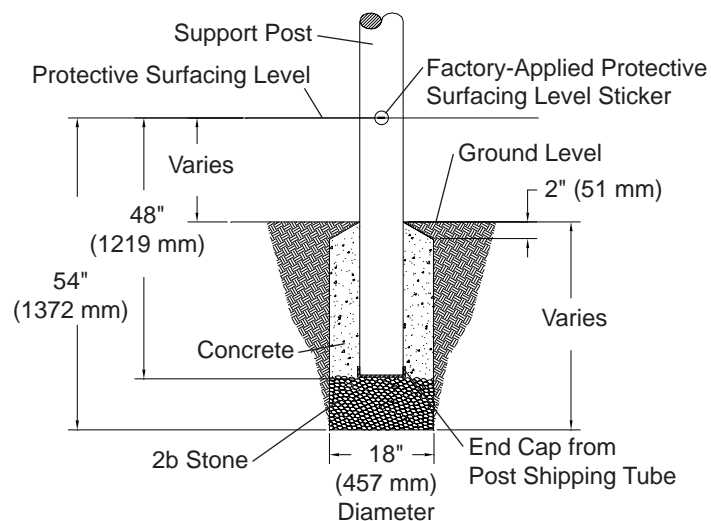
Elevation Views  
ZZPM0297



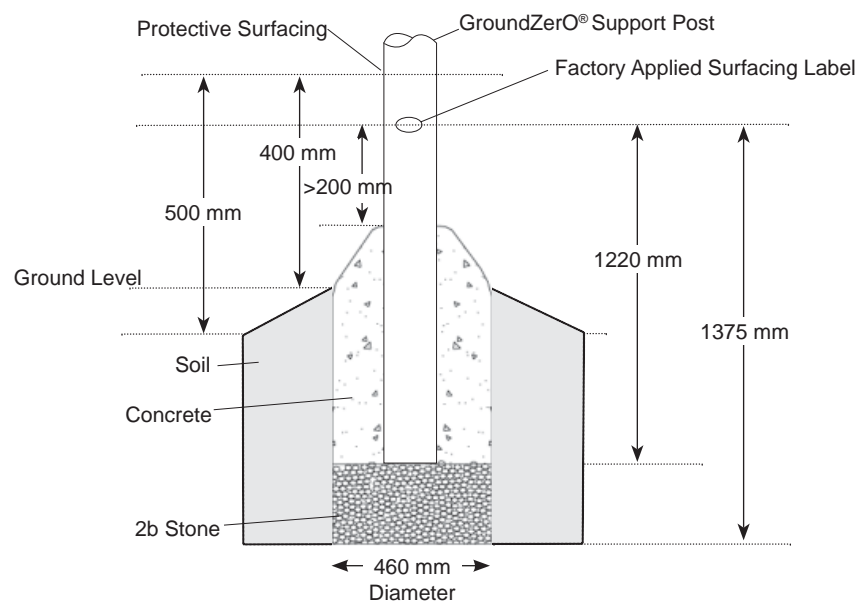
EN: 1219 mm



# Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



Footing Detail - GroundZero® Support Post (EN)

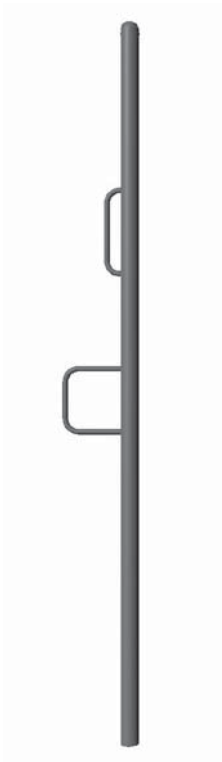
## FOOTING NOTES

- 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.



Detail A  
Step 4



Step 3



Step 5

**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.

## PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

## PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1



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## SUPERVISION INSTRUCTIONS

# PLAYWORLD SYSTEMS® THE SKY LINK & THE SKY ARCH

### **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



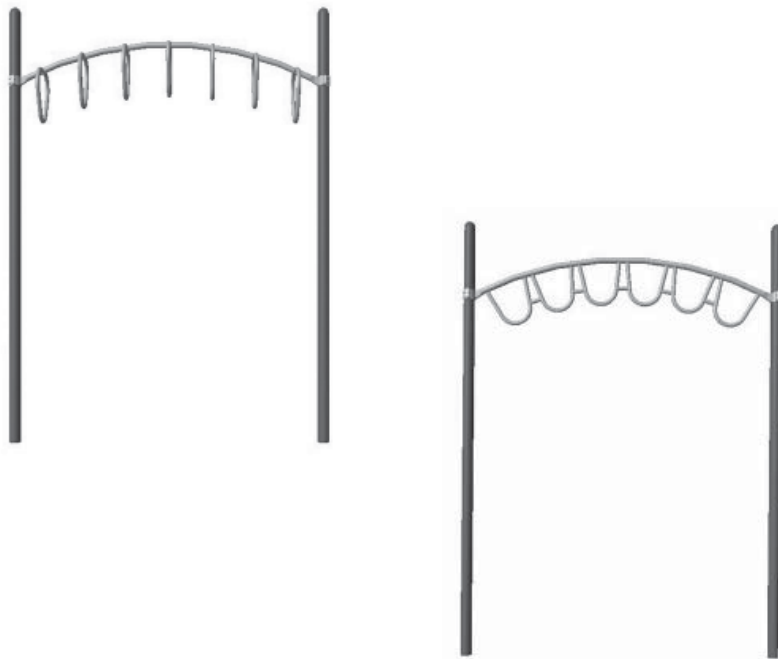
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet



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 Instructions

### Playmakers® Models PM8450 & PM8456

#### The Sky Link & The Sky Arch

### Installation Preparation

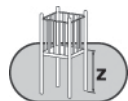
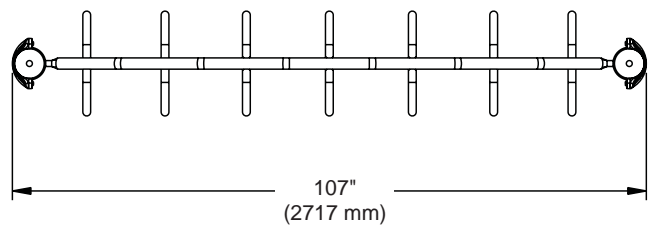
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 0.5 installation-hours  
 Weight: ..... (refer to table)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

### ICON KEY

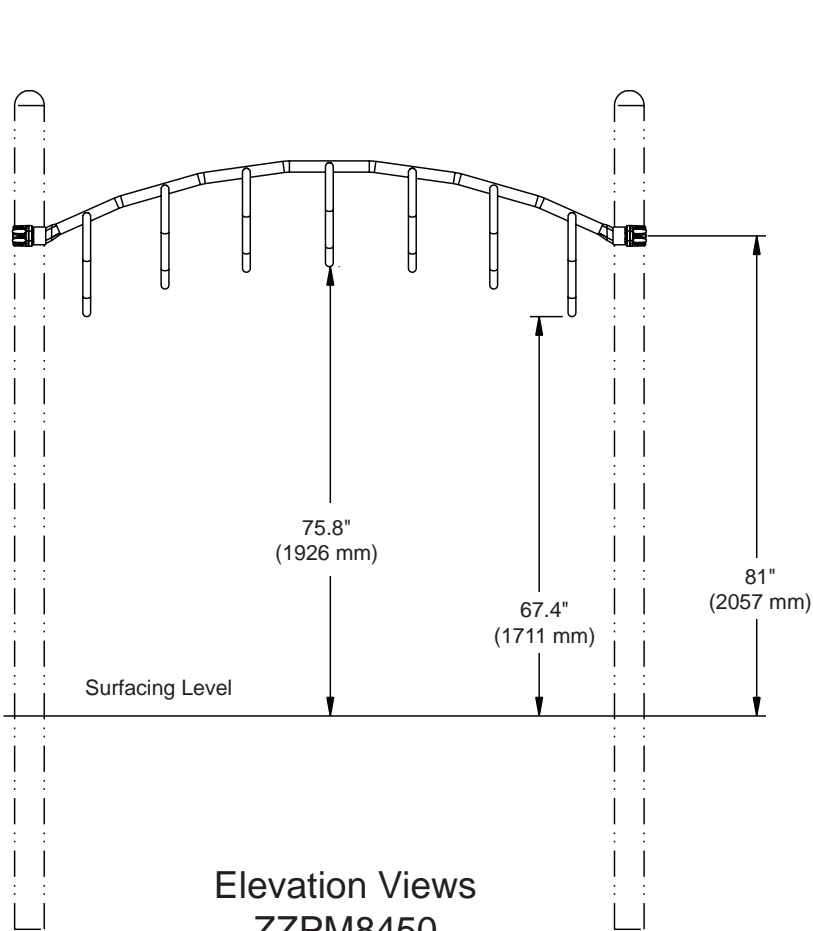
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

# Installation Instructions

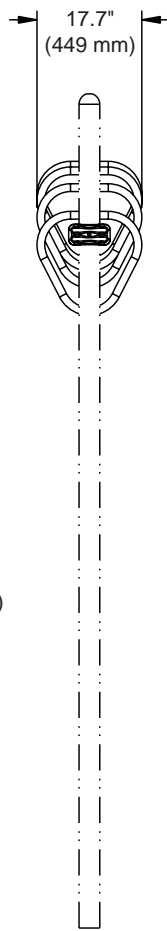
Top View



EN: 1926 mm



Elevation Views  
ZZPM8450



18"  
(457 mm)  
Diameter

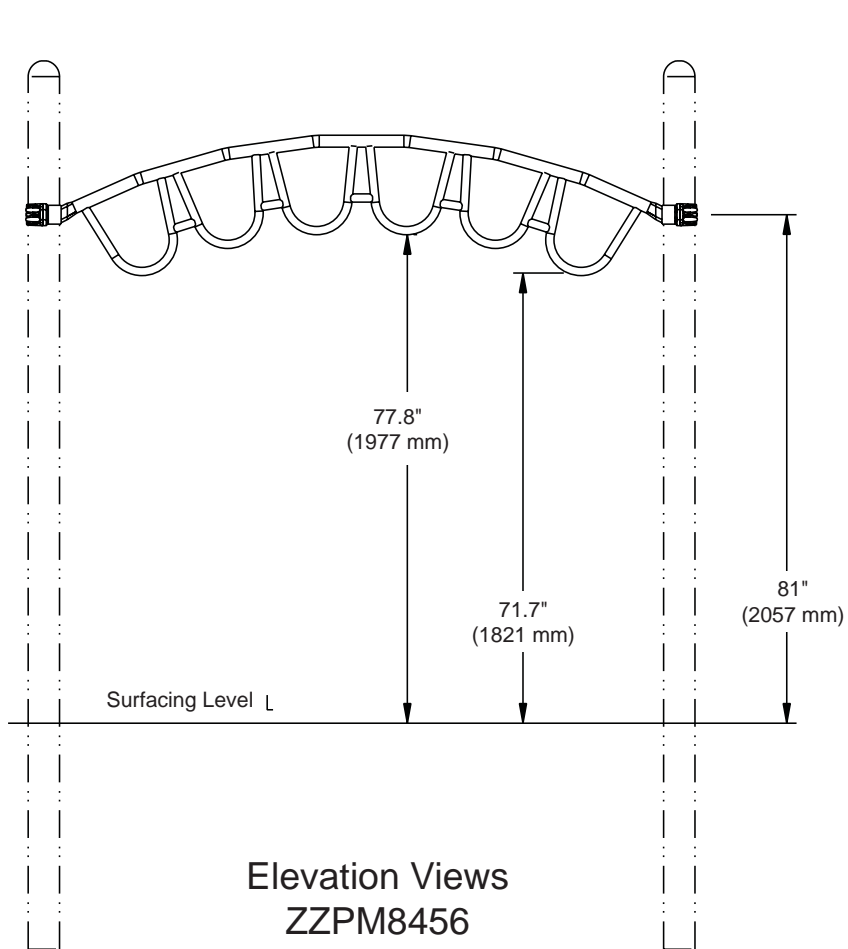
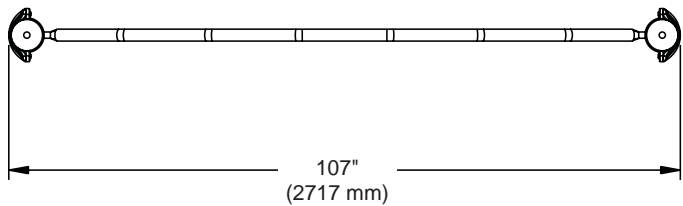
101.2"  
(2571 mm)

Footing Diagram  
Both Models

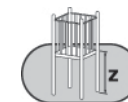


# Installation Instructions

Top View



7"  
(178 mm)

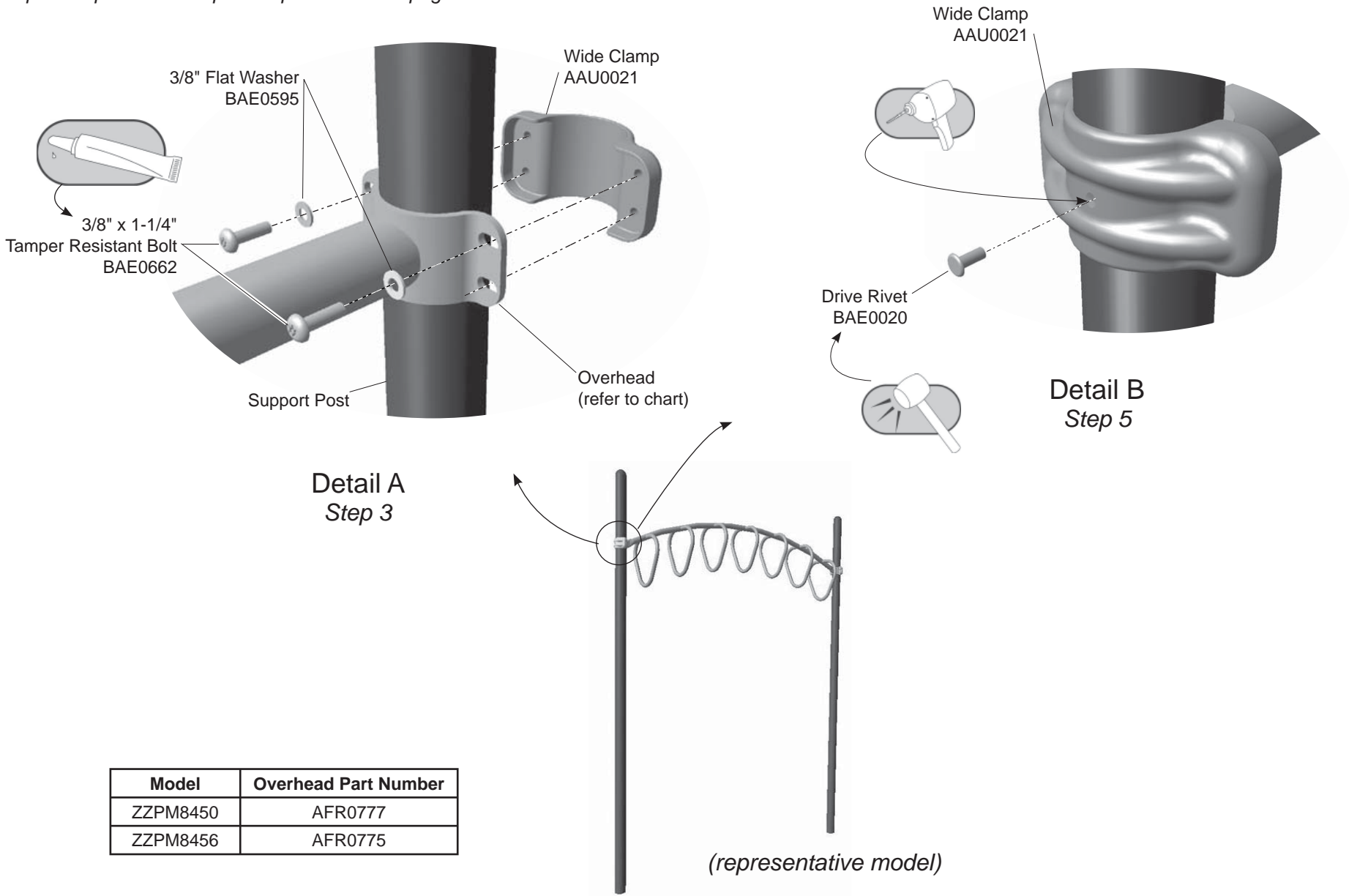


EN: 1977 mm



# 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

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**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" TPR 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" TPR RESISTANT w/TORX DRIVE	8



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## INSTALLATION INSTRUCTIONS

### PLAYMAKERS<sup>®</sup> MODEL PM0149 STEP AROUND



Assembly View

#### Installation Preparation . . .

Recommended Crew: One (1) adult  
Installation Time: 0.5 hour  
Weight: 8.4 Lbs. (3.8 Kilos)  
Use Zone: 72 in. (1829 mm) all sides  
User Group: Ages 2 - 12 years - (See Elevation View)

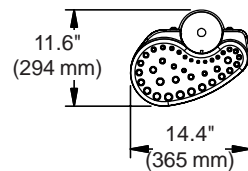
#### Torque Specification:

Bolts & Nuts: Snug tighten and  
tighten an additional one-half turn.  
Set Screws: Snug tighten and  
tighten an additional full turn.

#### Maintenance . . .

- Playworld Systems<sup>®</sup> 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<sup>®</sup> 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



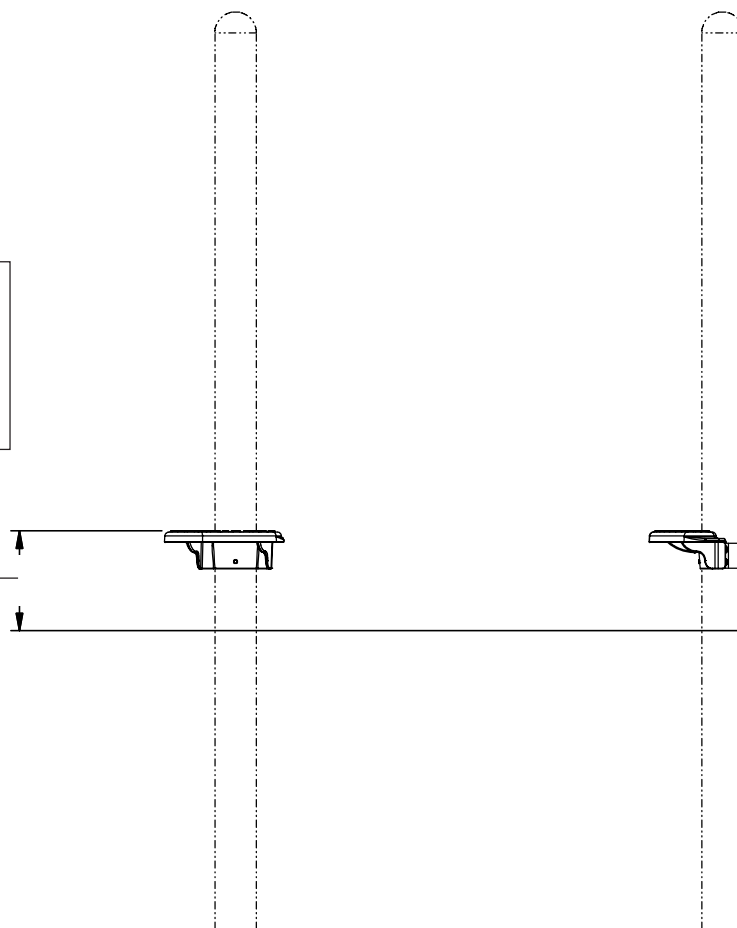
Top View

**Important Note:**

Ages 2-12 - maximum height of Step Around is 20 in. (508 mm).

Ages 5-12 - maximum height of Step Around is 30 in. (762 mm).

12" (305 mm)  
to  
30" (762 mm)  
See Note



Elevation View

## 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 reinstallation.

#### 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 of the Step Around by referring to the master layout drawing.

#### Attach the Step Around to the support post

**Step 4:** Attach the Step Around to the support post. See **Detail A**. Select the Step Around, a wide steel clamp band, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the Step Around and the wide clamp band and align the holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, the clamp band, and thread into the Step Around. Start all bolts before tightening any, and then only snug tighten to allow for height and position adjustments.

**Step 5:** Based on the intended user group move the Step Around to the appropriate height and orientation. See **Elevation View** and **Important Note** below. Tighten the bolts, drawing the clamp band up evenly. *The Step Around may be mounted at a lower height but may not exceed the maximum for the intended user group.*

#### Important Note:

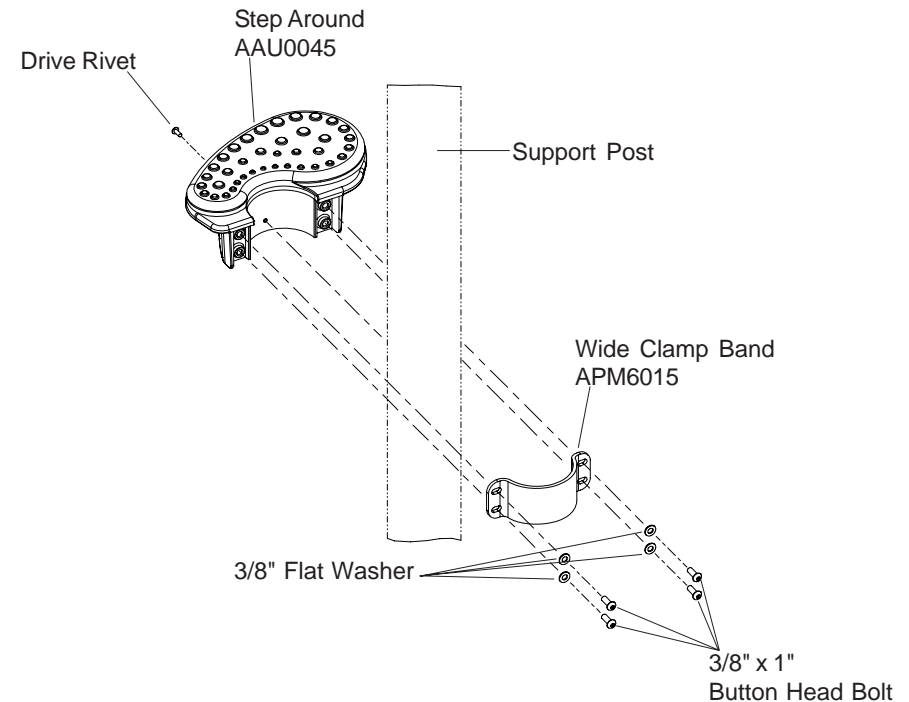
For a user group ages 2-12 the maximum height of the Step Around is 20 in. (508 mm).  
For a user group ages 5-12 the maximum height of the Step Around is 30 in. (762 mm).

#### Final Details.

**Step 6:** Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

**Step 7:** Install a drive rivet. See **Detail A**. After the equipment assembly is complete, install a drive rivet in the Step Around casting to permanently secure it to the support post. Using a 1/4" drill bit, using the indent in the casting as a guide, drill into the support post. Insert the drive rivet into hole until the head of the rivet is against the surface of the casting. 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.



Detail A

## INSTALLATION INSTRUCTIONS

### BILL OF MATERIAL

#### PM - STEP AROUND

PART NO.	DESCRIPTION	QTY.
AAU0045	CASTING - 5" STEP AROUND	1
APM6015	CLAMP - 5" DIA. x 3" WIDE STEEL	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

# Installation Instructions

## Playmakers® Model PM6809

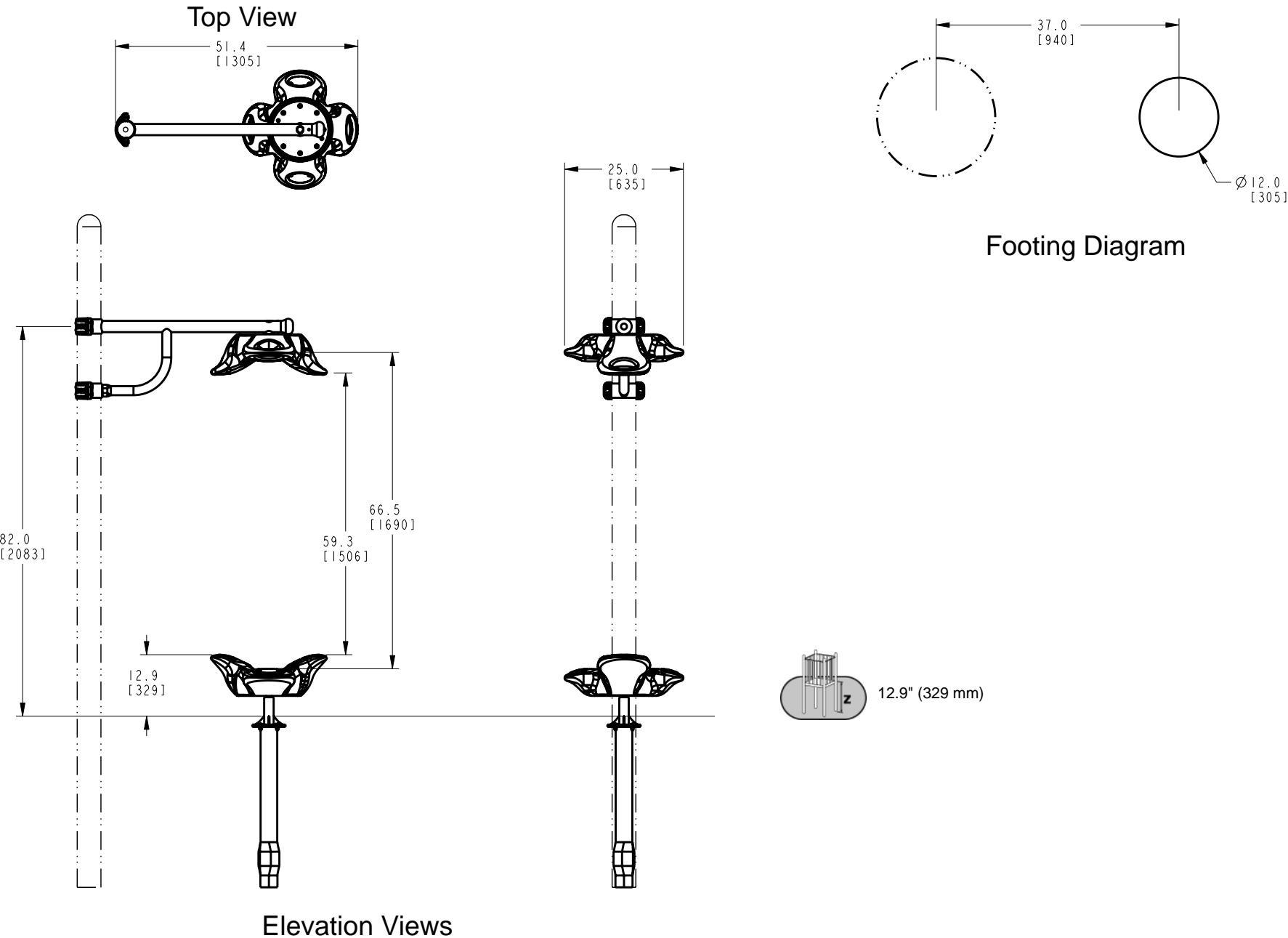
### Twister

#### Installation Preparation

- Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 2 man-hours  
Concrete Required: ..... 0.05 cubic yard (0,04 cubic meters)  
Use Zone: ..... Refer to Master Drawing  
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

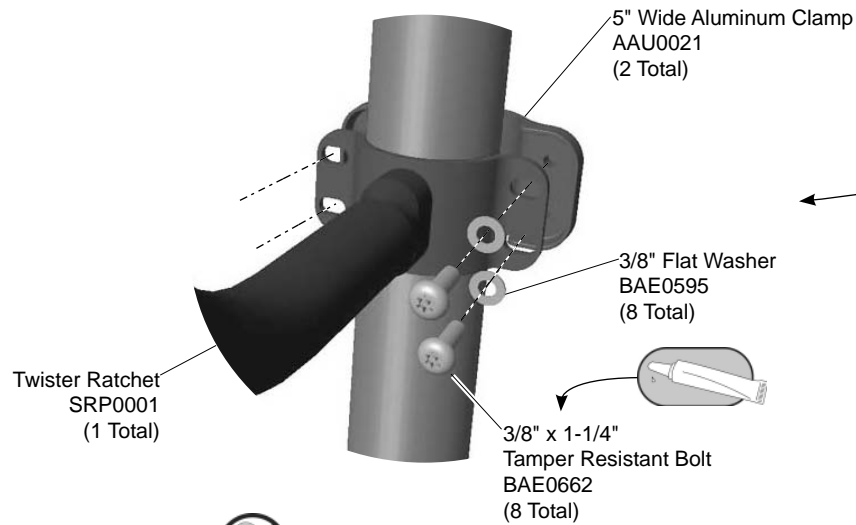
ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

# Installation Instructions



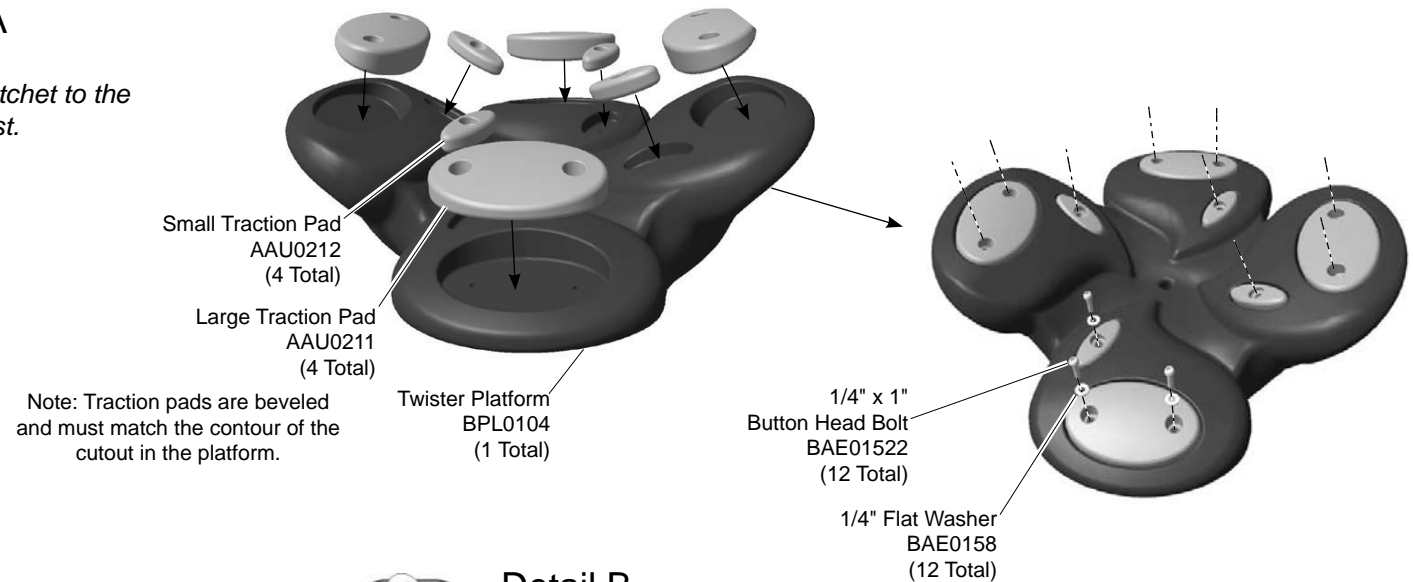
# Installation Instructions

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



## Detail A Step 4

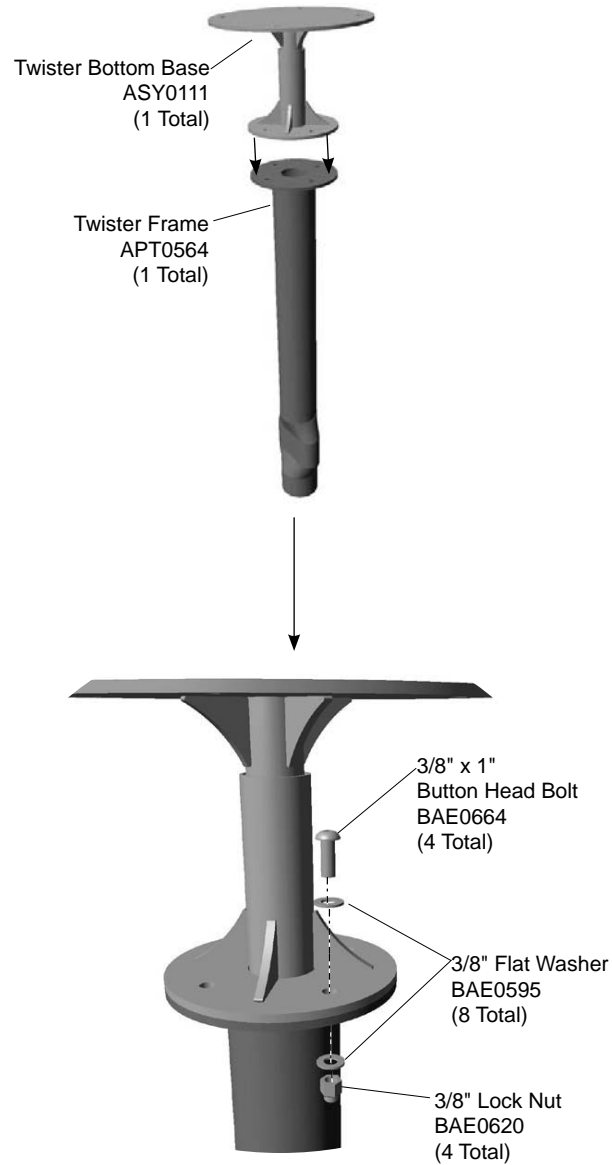
Attach the Twister ratchet to the support post.



## Detail B Step 5

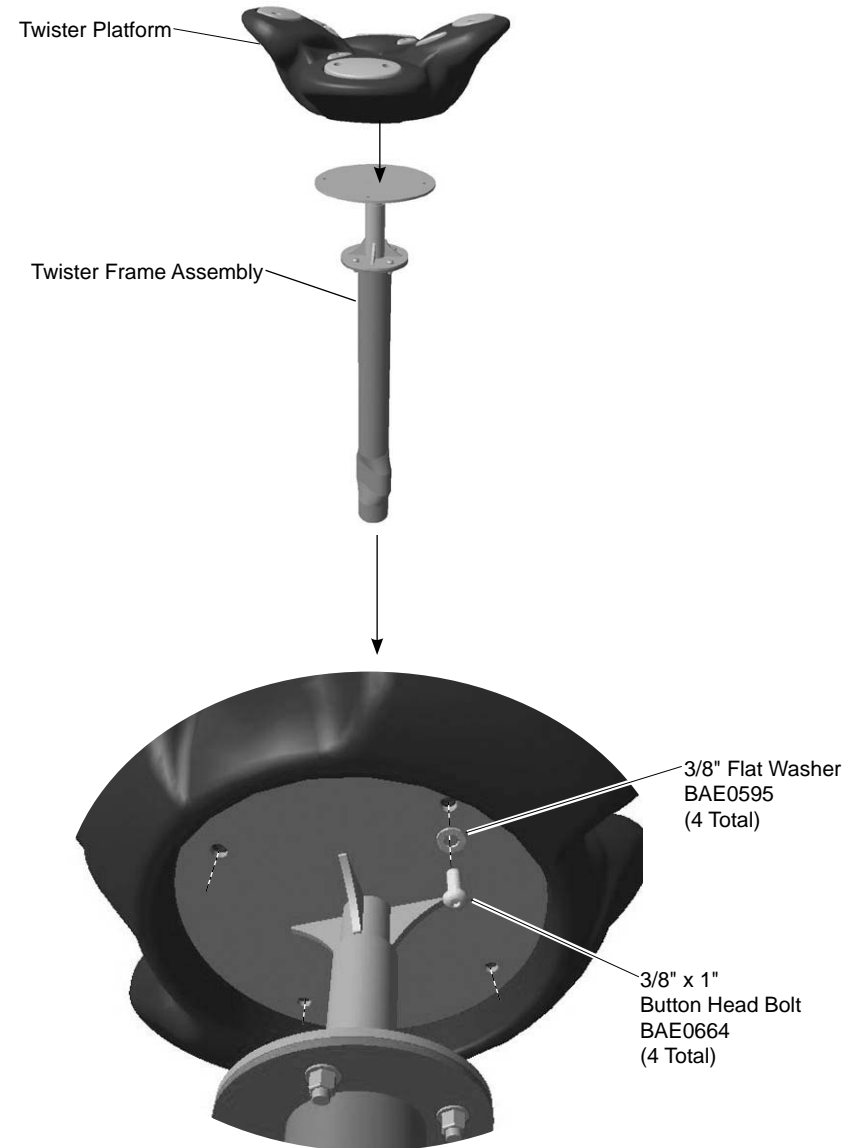
Attach the traction pads to the Twister platform.

# Installation Instructions



**Detail C**  
**Step 6**

*Attach the bottom base to the Twister frame.*

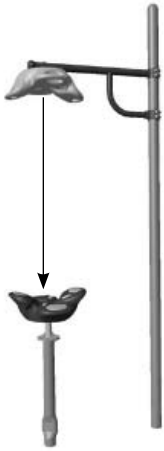


**Detail D**  
**Step 7**

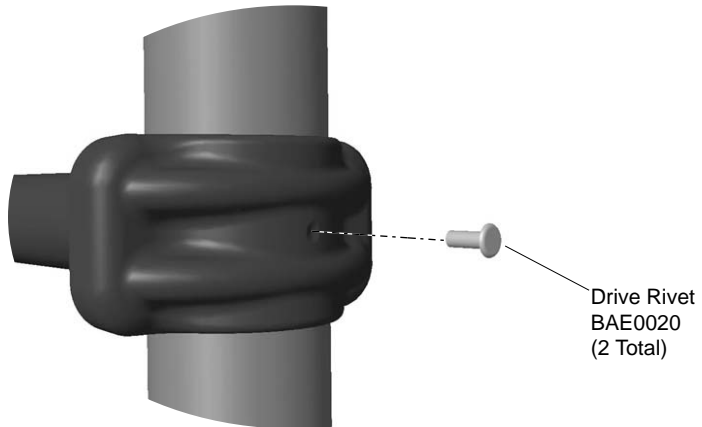
*Attach the platform to the frame.*

# Installation Instructions

---



**Detail E**  
**Step 8**  
*Align the ratchet with the platform.*



**Detail F**  
**Step 9**  
*Secure the clamps to the support post.*

# 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 Detail** illustrated on **page 8** of this document.

**Step 4:** Attach the Twister ratchet assembly to the support post. See **Detail A**. Raise the Twister ratchet assembly to the appropriate height as shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

**Step 5:** Attach the traction pads to the Twister platform. See **Detail B**. Place the traction pads into the appropriate recesses in the platform and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Note: The traction pads are beveled and must match the contour of the cutout in the platform.

**Step 6:** Attach the Twister bottom base to the Twister frame. See **Detail C**. Lower the base onto the frame, align the holes, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

**Step 7:** Attach the Twister platform to the Twister frame assembly. See **Detail D**. Lower the platform onto the frame assembly, align the holes, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

## Final Details.

**Step 8:** Place the Twister platform assembly in it's footing. Plumb and level the component. Make sure the Twister ratchet is aligned over the platform. See **Detail E**. 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 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.

**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.

## PM6809 - TWISTER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0211	6.38" TRACTION PAD	4
AAU0212	3.38" TRACTION PAD	4
APT0564	POST - 7.00" O.D. x 34.00"	1
ASY0111	SPIN CENTRAL - BOTTOM PLATFORM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	12
BAE0158	WASHER - 1/4" SAE FLAT	12
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0104	PLATFORM - SPIN CENTRAL	1
SRP0001	SPIN CENTRAL RATCHET (PM)	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

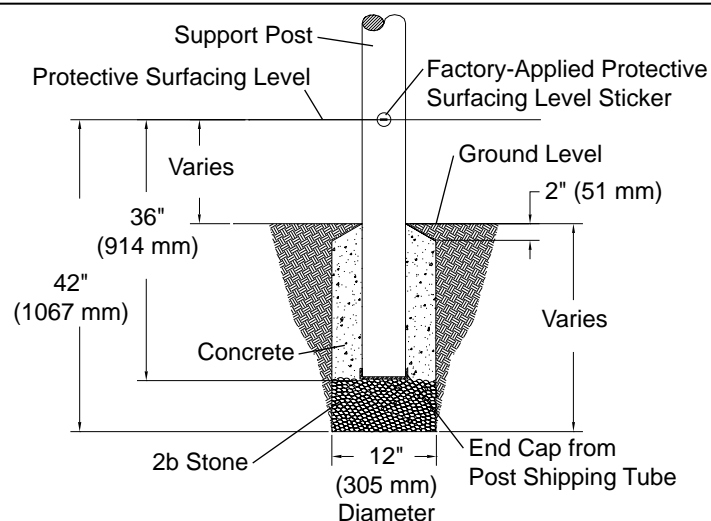


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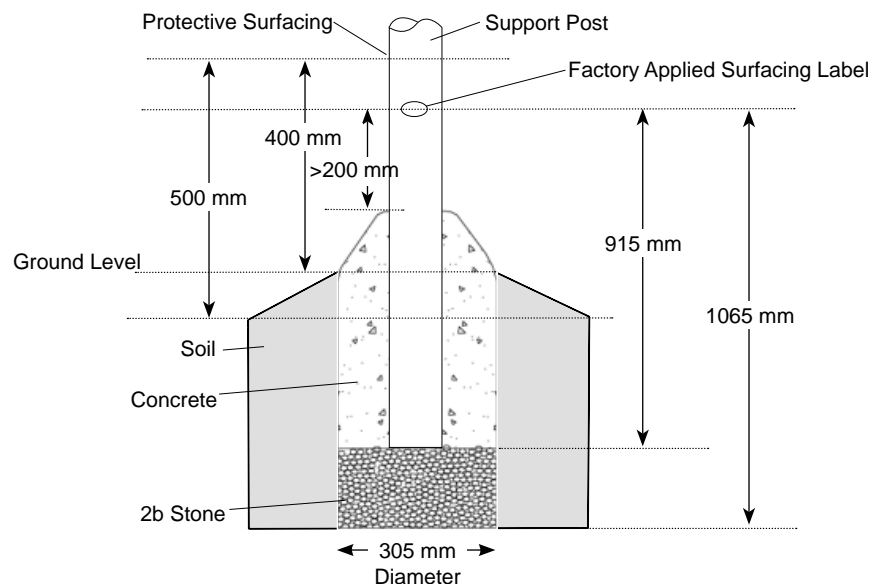
# Installation Instructions



**Support Post Footing Detail (ASTM/CSA)**

## 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.



**Footing Detail - Support Post (EN)**



Assembly View

Installation Instructions  
Playmakers® Model PM6590  
6 ft. (1829 mm) Arch Bridge

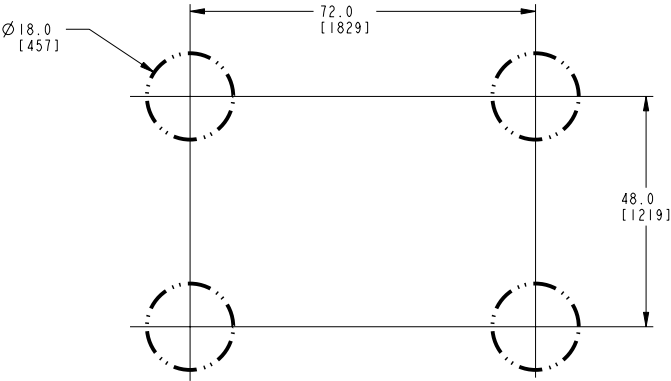
**Installation Preparation**

- 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

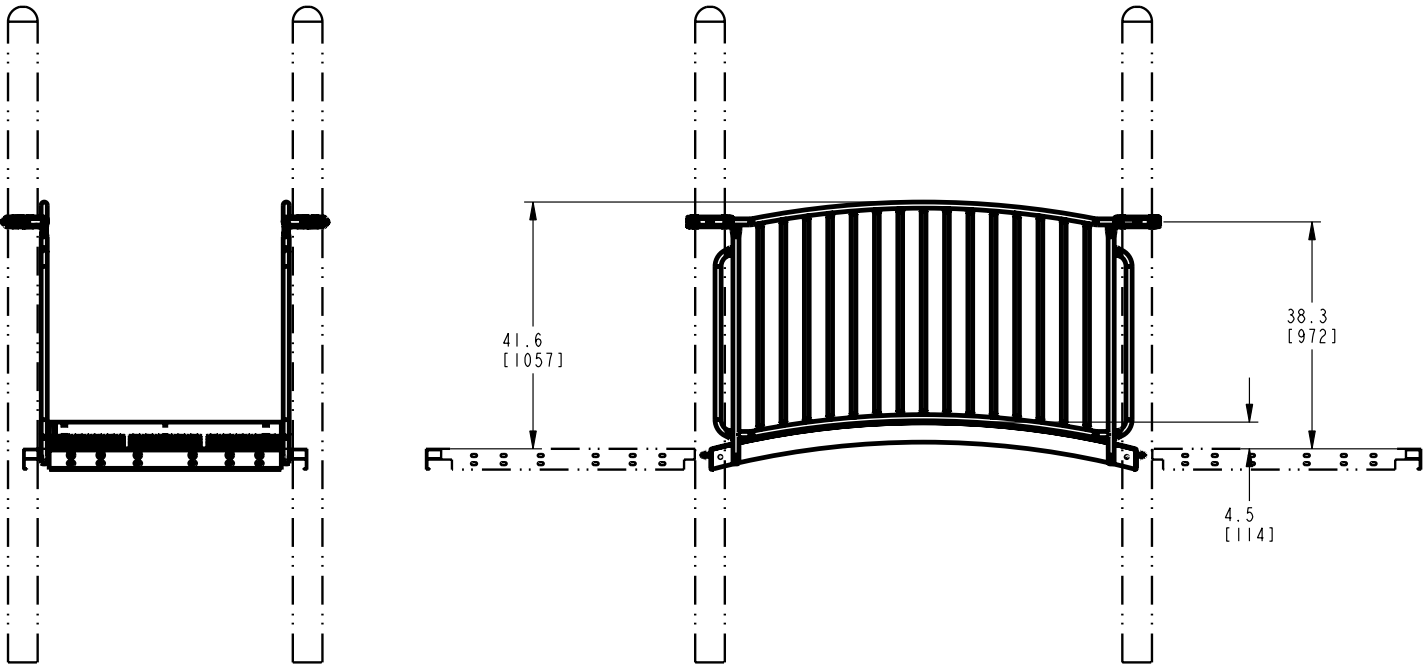
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do <b>Not</b> Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

# Installation Instructions

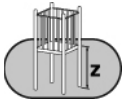
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View

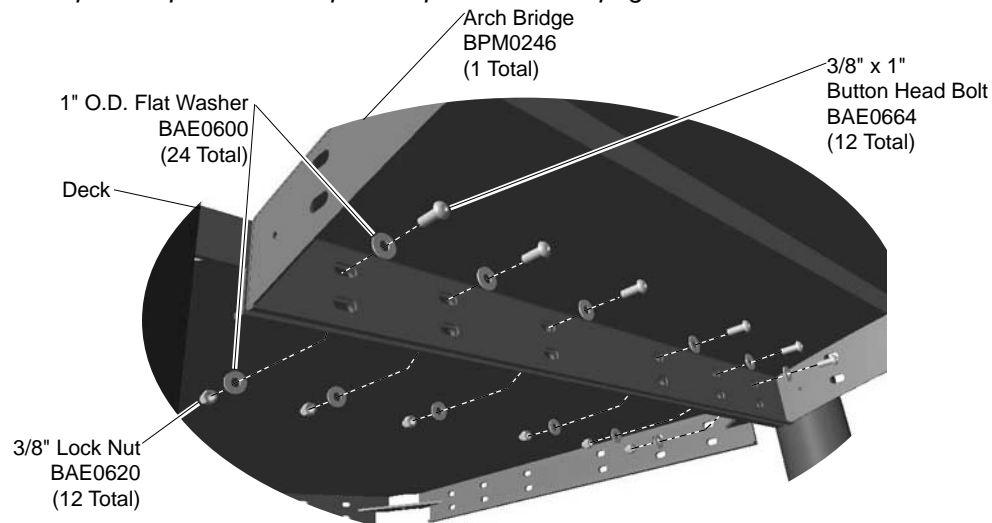


Height of the deck plus  
8.5" (215 mm)



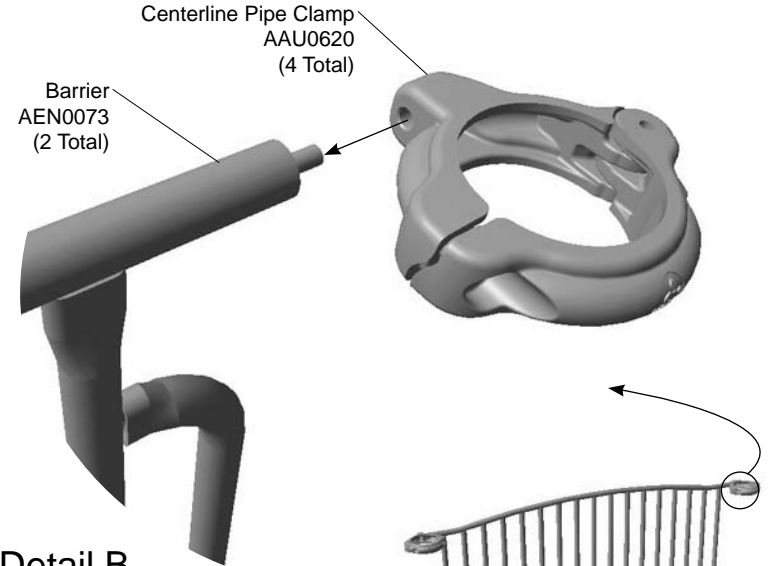
# Installation Instructions

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



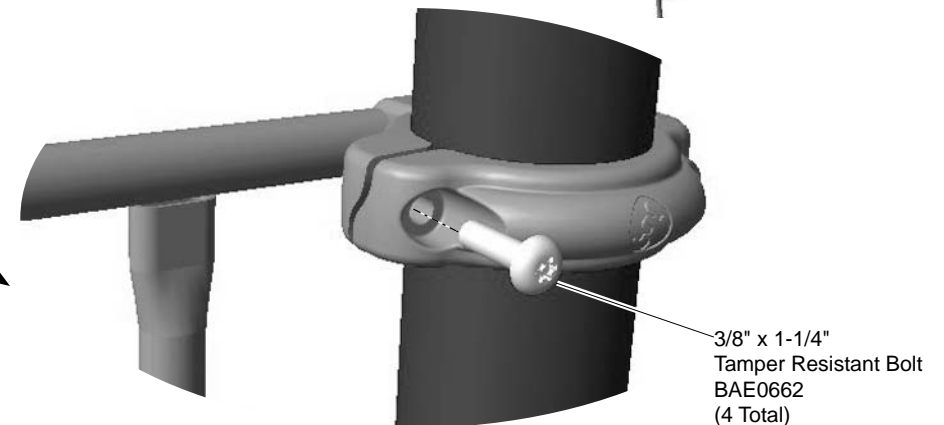
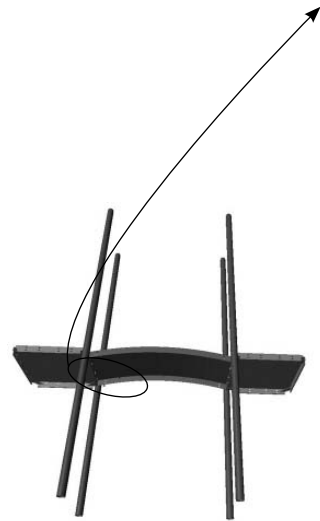
**Detail A**  
**Step 3**

*Attach the bridge section to the decks.*



**Detail B**  
**Step 4**

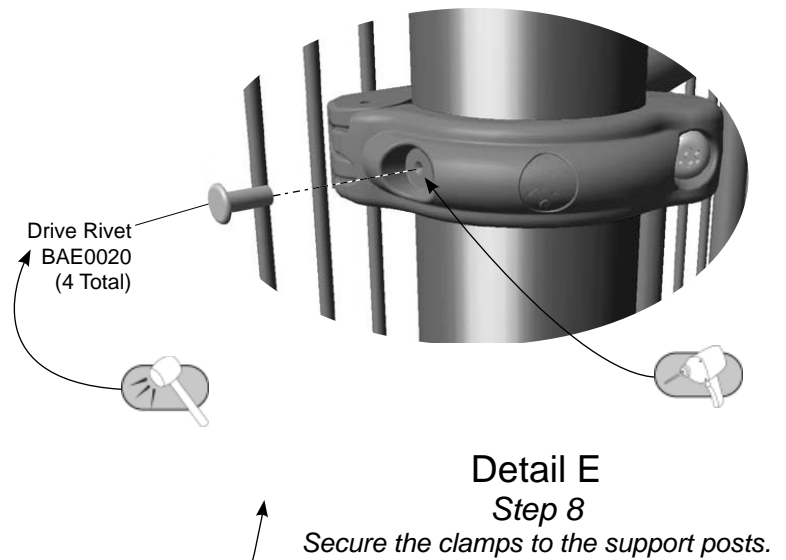
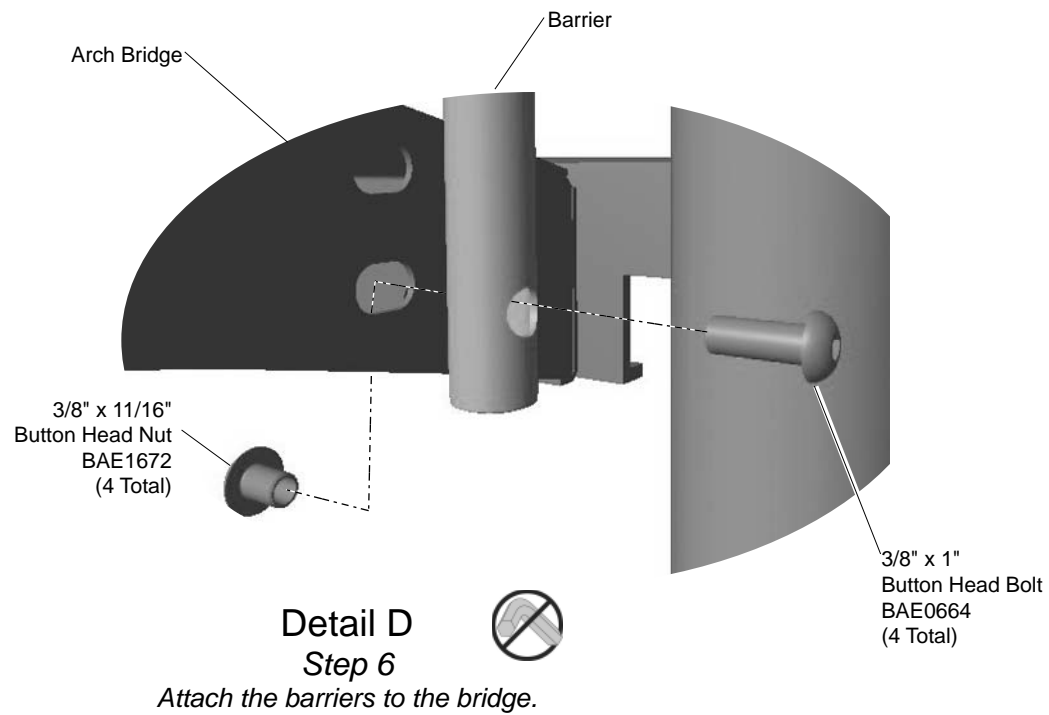
*Place the pipe clamps on the ends of the barriers.*



**Detail C**  
**Step 5**

*Attach the barriers to the support posts.*

# Installation Instructions



# 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
BPM0246	ARCH- 71.75" x 8" x 39.13" x 8.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View (representative model)

## Installation Instructions

Playmakers® Models PM7080 and PM6890

6 ft. (1829 mm) and 10 ft. (3048 mm)

Catwalk

### Installation Preparation

Recommended Crew: ..... Four (4) adults

Installation Time: ..... 4 man-hours

Use Zone: ..... Refer to Master Drawing

User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

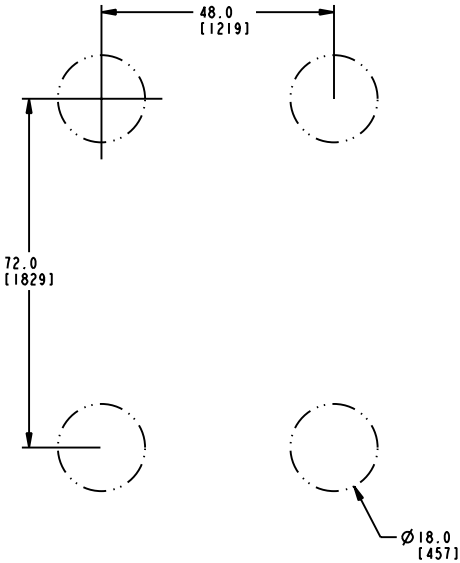
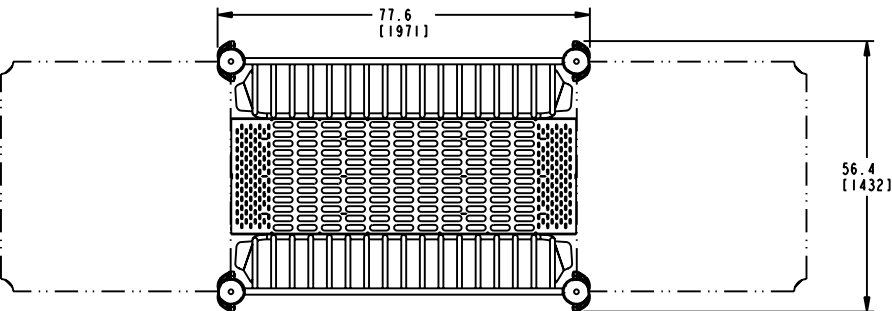
### ICON KEY

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

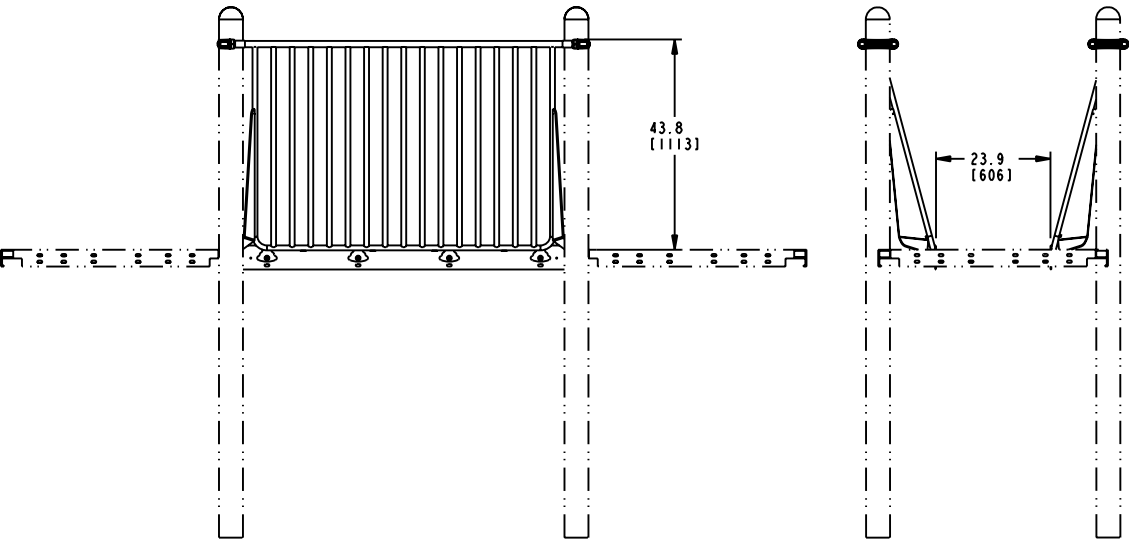
# Installation Instructions

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

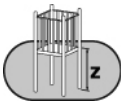
Top View



Footing Diagram



Elevation View  
PM7080



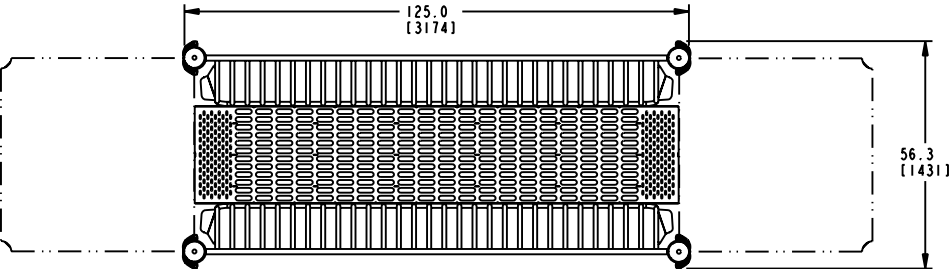
Equal to the height of the deck.



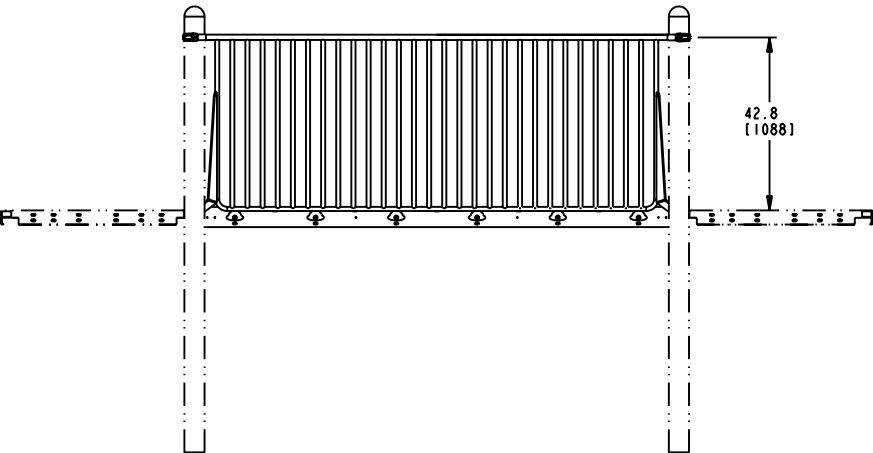
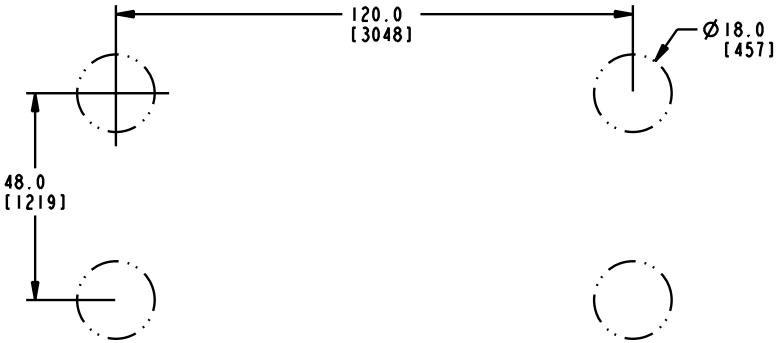
# Installation Instructions

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

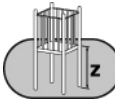
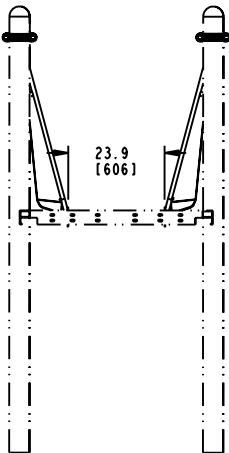
Top View



Footing Diagram



Elevation View  
PM6890

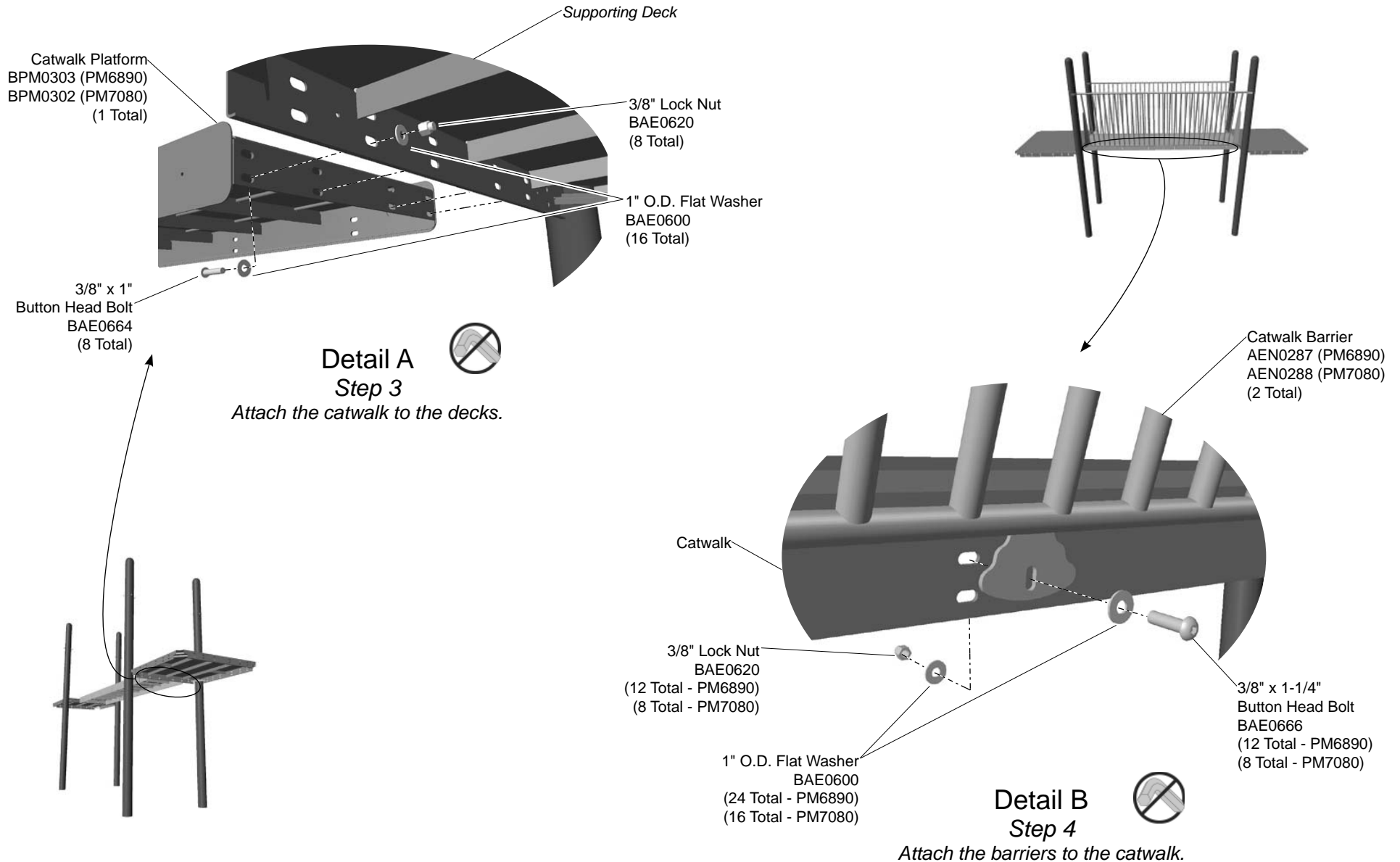


Equal to the height of the deck.

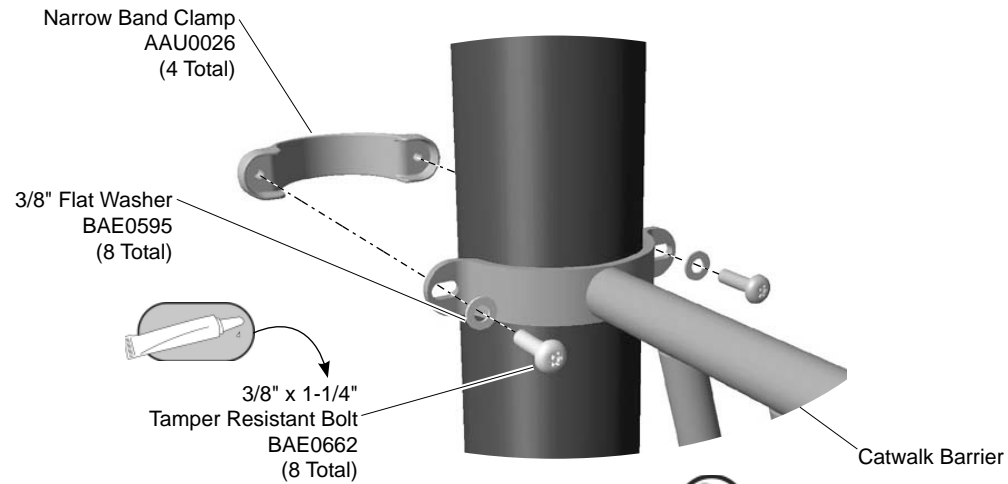


# Installation Instructions

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

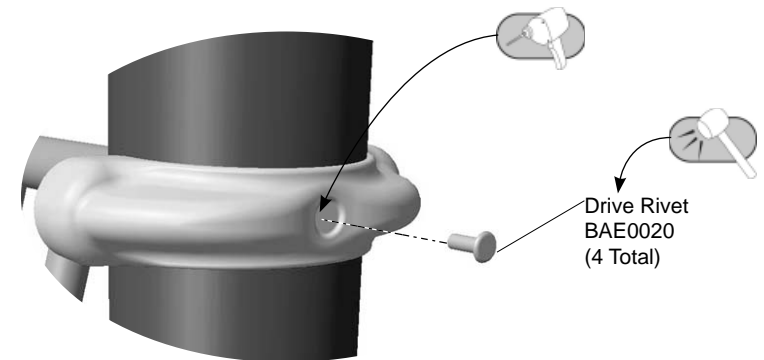
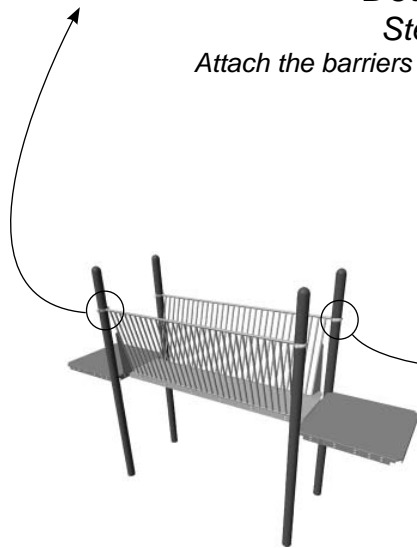


# Installation Instructions



**Detail C**  
**Step 5**

*Attach the barriers 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.

**Attach the catwalk to the decks.**

**Step 3:** Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

**Attach the barriers to the catwalk.**

**Important Note:** There are upper holes (preferred) and lower holes along the side of the catwalk for barrier attachment. Choose the hole set that will avoid adjacent clamp interference. Both barriers should be mounted at the same height.

**Step 4:** Attach the barriers to the catwalk. See **Detail B**. Position each barrier against the side of the catwalk with the top rail clamp bands around the support posts and attach as shown. Leave the connections loose. The barriers should be supported until the narrow clamp bands are attached.

**Attach the narrow clamp bands to the barriers.**

**Step 5:** Attach the narrow clamp bands to the barriers. See **Detail C**. Position each narrow clamp band around a support post and aligned with a barrier top rail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Snug tighten the connections.

**Final Details.**

**Step 6:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk is flush to and level with the deck.

**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, 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.

## 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" TPR 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
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

## PM6890 - 10 ft. (3048 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0287	BARRIER - 119-9/516 x 45-1/16" 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	40
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR 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	12
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1



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Assembly View

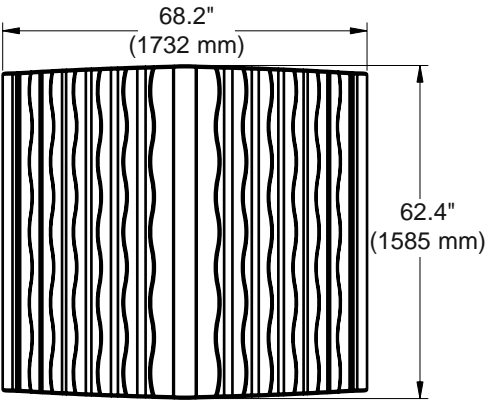
Installation Instructions  
Playmakers®  
Model PM9846  
Cabana Roof

**Installation Preparation**

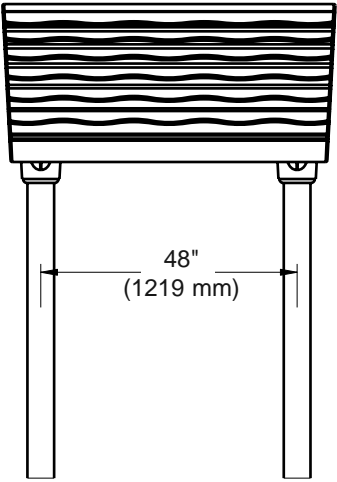
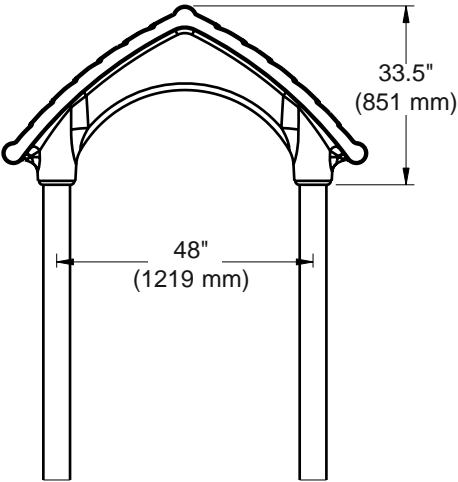
Recommended Crew: ..... Two (2) adults  
Installation Time: ..... 1 man-hour  
Weight: ..... 123 lbs. (55,9 kg)

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

# Installation Instructions



Top View



Elevation Views  
ZZPM9846

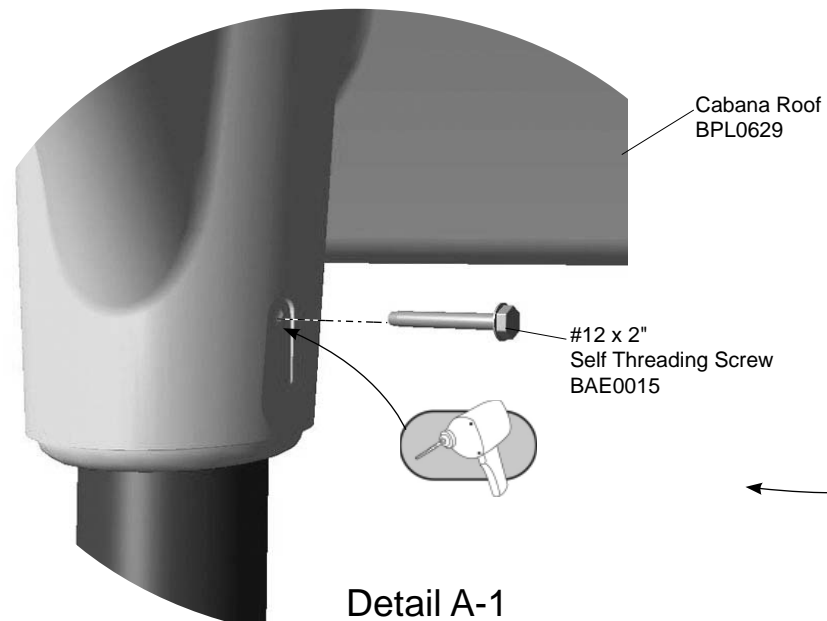


# Installation Instructions

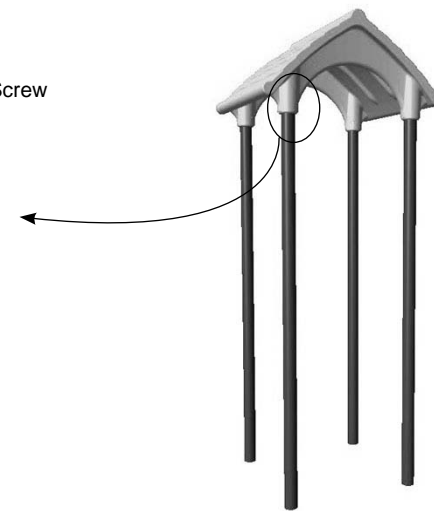
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1  
Step 3



Detail A-1  
Step 3



# 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.

## 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 Swing Chain






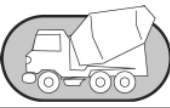

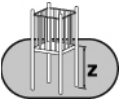
### Installation Preparation

Recommended Crew: ..... One (1) adult

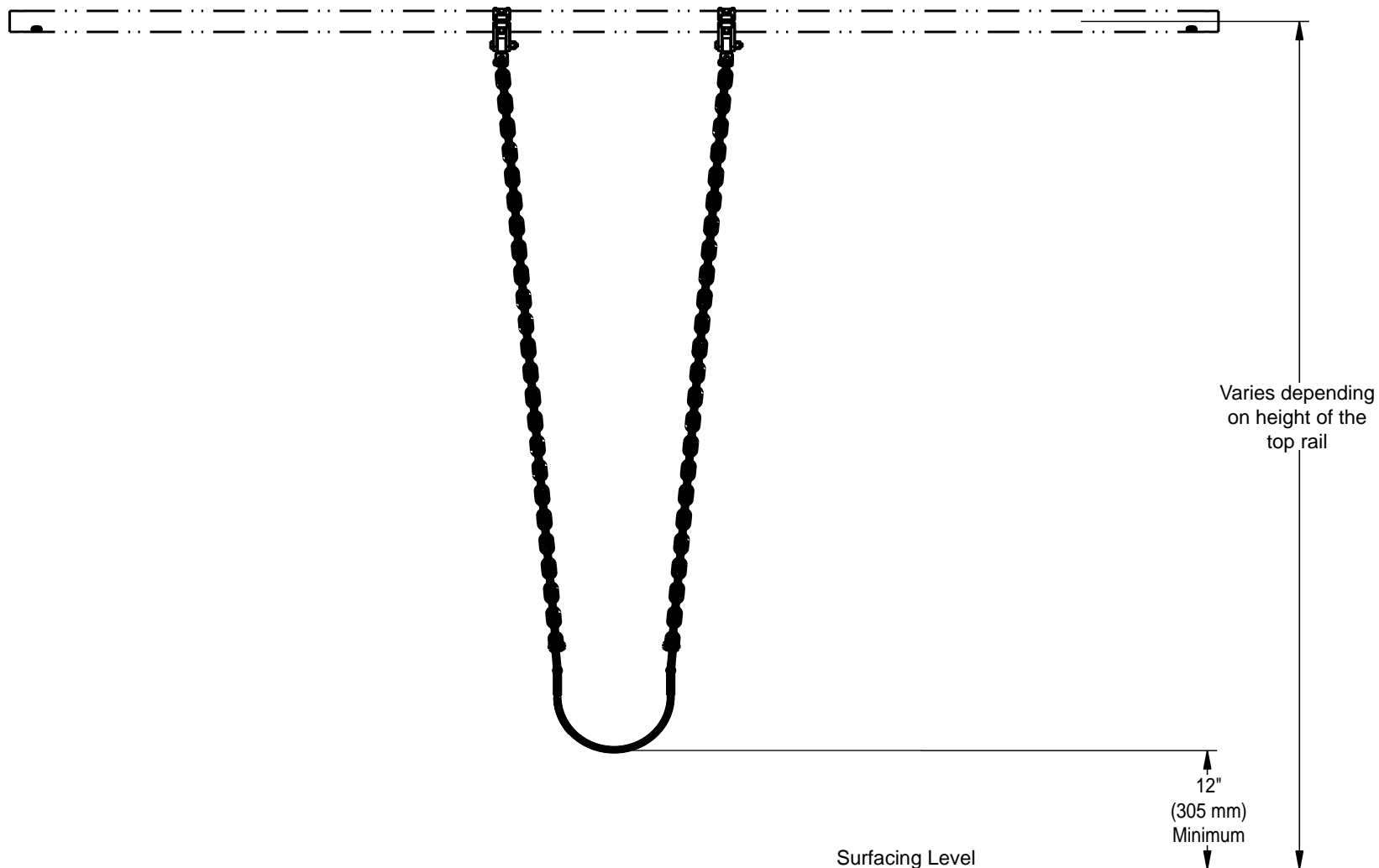
Installation Time: ..... 0.25 hour

Use Zone: ..... Refer to the swing frame instructions

User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

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

# Installation Instructions

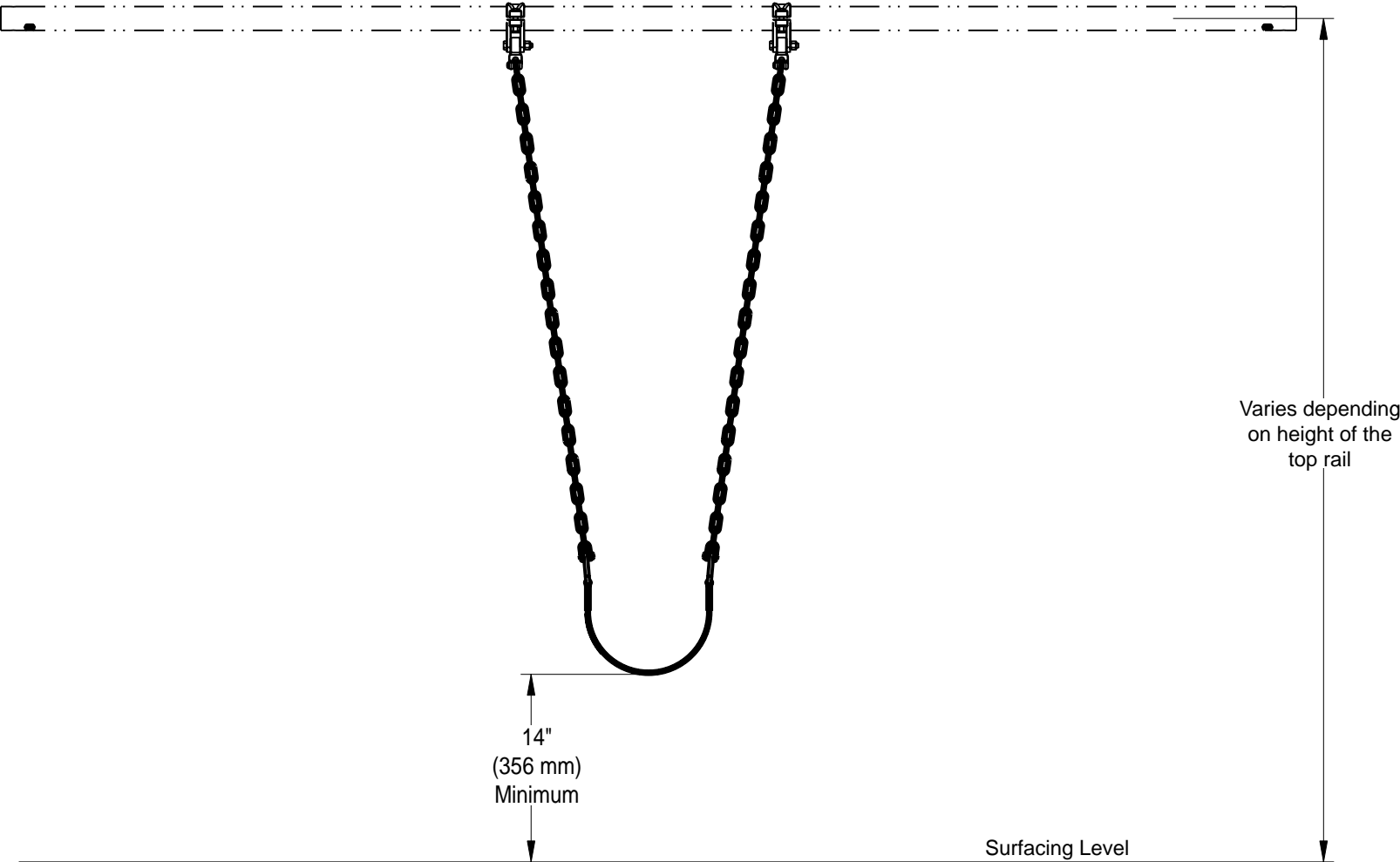


Elevation View  
(ASTM/CSA)

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



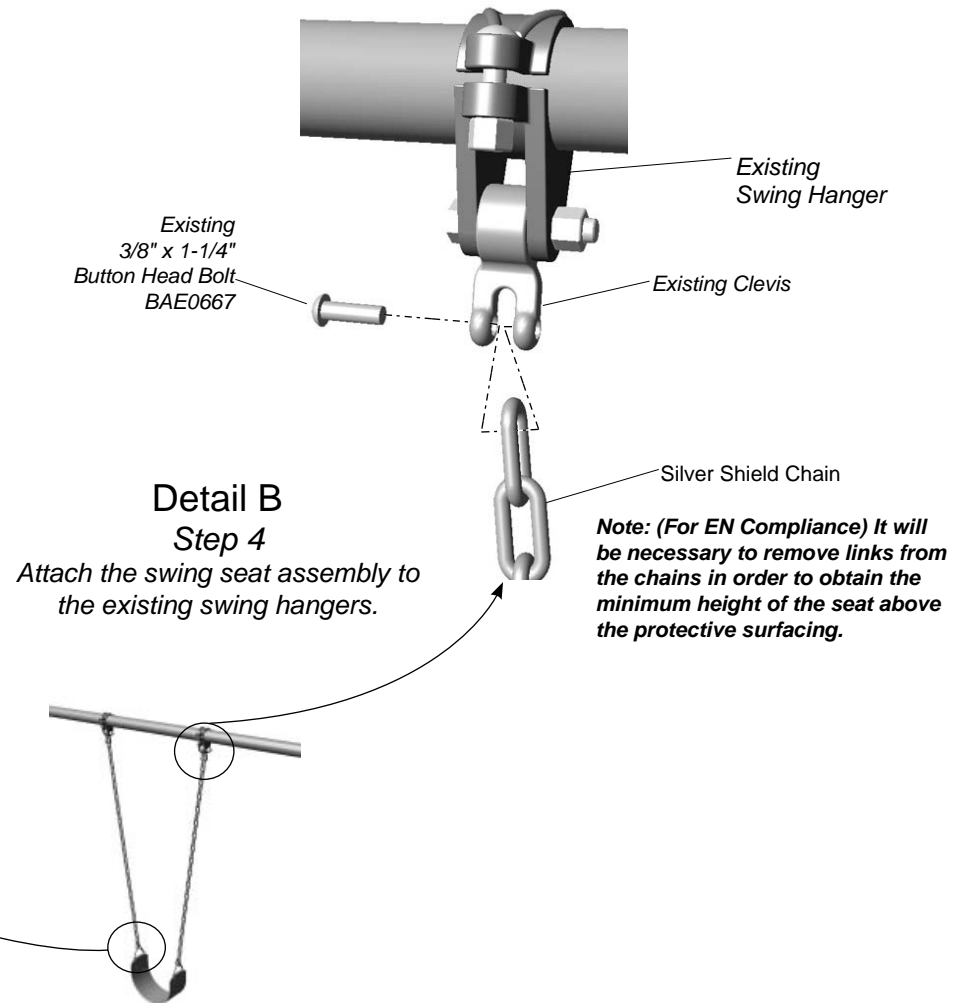
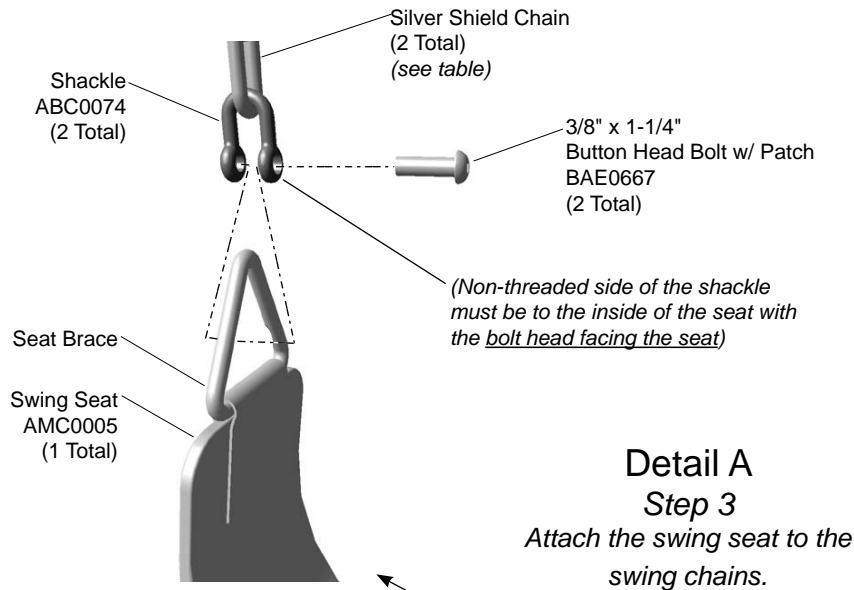
Elevation View  
(EN)

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.



Model Number	Swing 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 SWING 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 SWING 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 SWING 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



### 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.

## Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



# 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 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: \_\_\_ / \_\_\_ / \_\_\_





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

## Installation Instructions

Playworld Systems®  
Models XX0265, XX0266, & XX0325  
Infant Swing Seat with Swing 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

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)

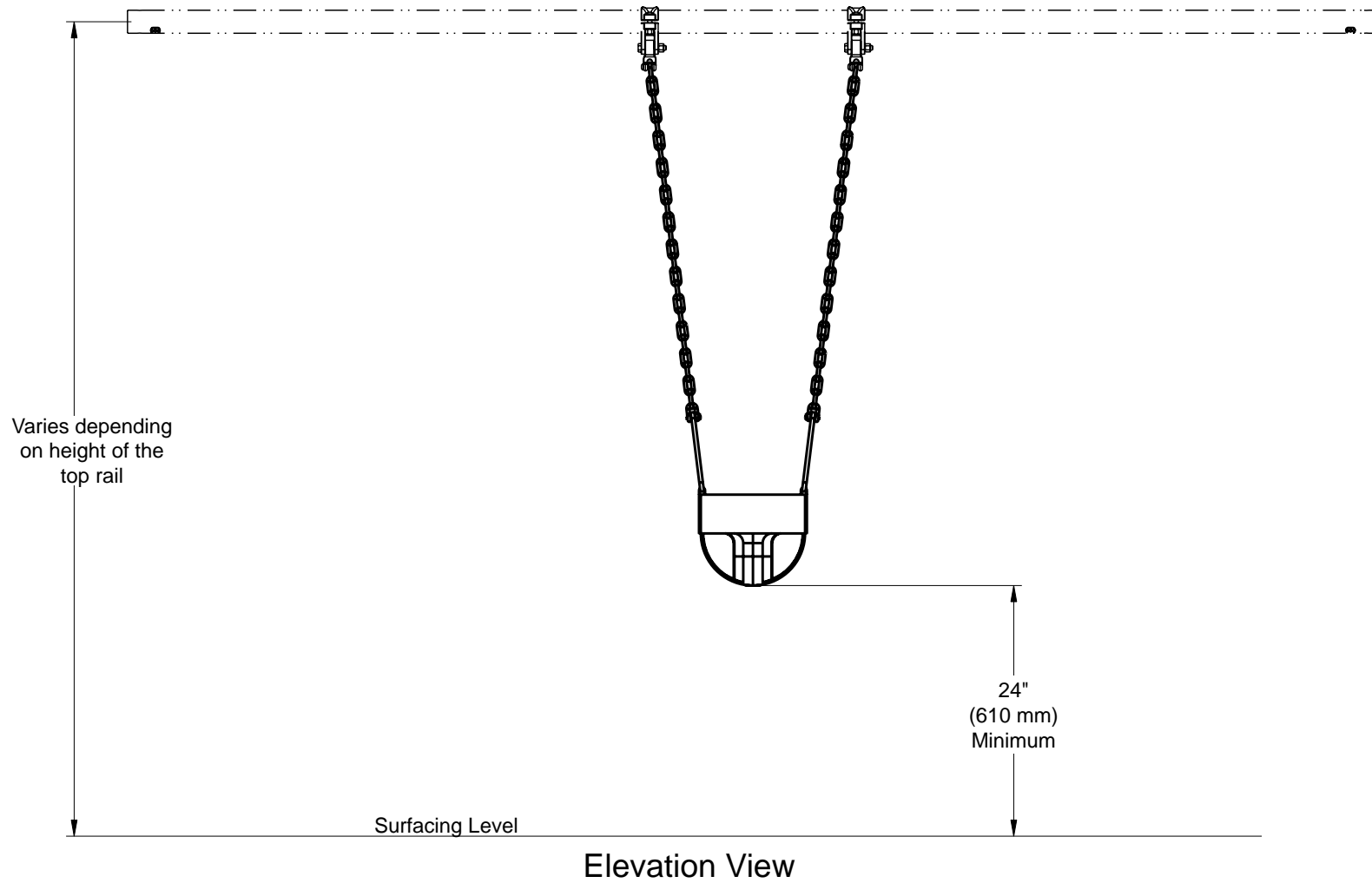
### ICON KEY



Fully Tighten  
Hardware



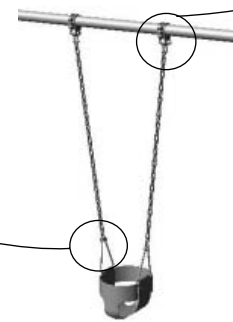
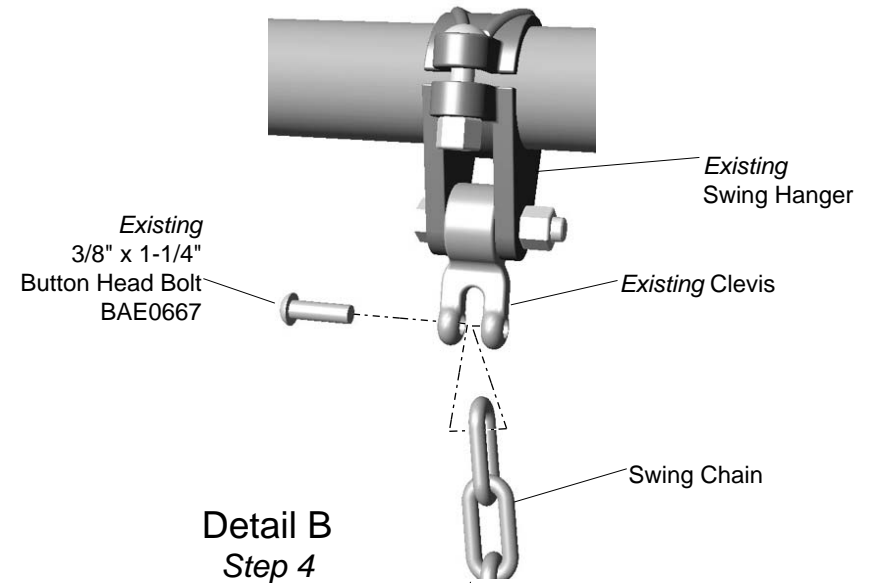
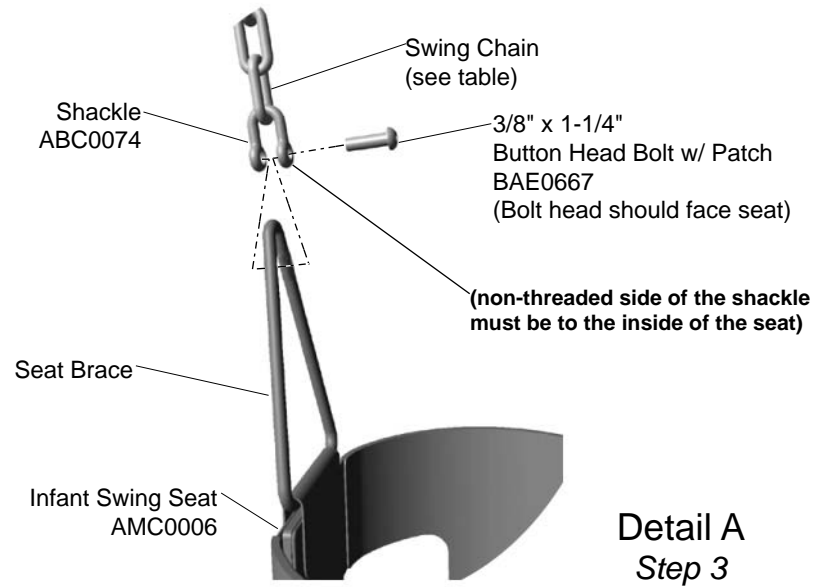
# Installation Instructions



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	Swing 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

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**\_\_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.

## ZZXX0325 - INFANT SWING SEAT WITH SWING 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 Swing	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 SWING 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 Swing	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 SWING 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 Swing	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 Swing Chain



**PLAYWORLD  
SYSTEMS®**  
The world needs play.™  
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**800-233-8404** or  
**570-522-9800** OUTSIDE U.S.  
1000 Buffalo Road • Lewisburg, PA 17837  
[www.playworldsystems.com](http://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!**

<b>INSPECTION CHECKLIST</b>	<b>Frequency</b>	<b>Inspection Code</b>	<b>Date</b>	<b>Date Repairs Completed</b>
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**

<b>Item in Question</b>	<b>Description of Problem</b>	<b>Corrective Action</b>	<b>Date</b>

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

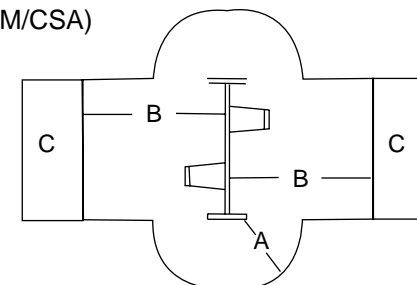
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

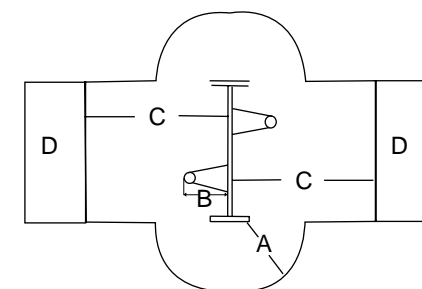
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

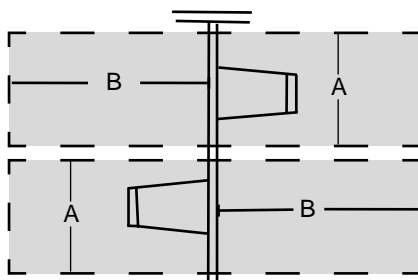
## (EN)

- 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 absorbency. 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

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- 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.

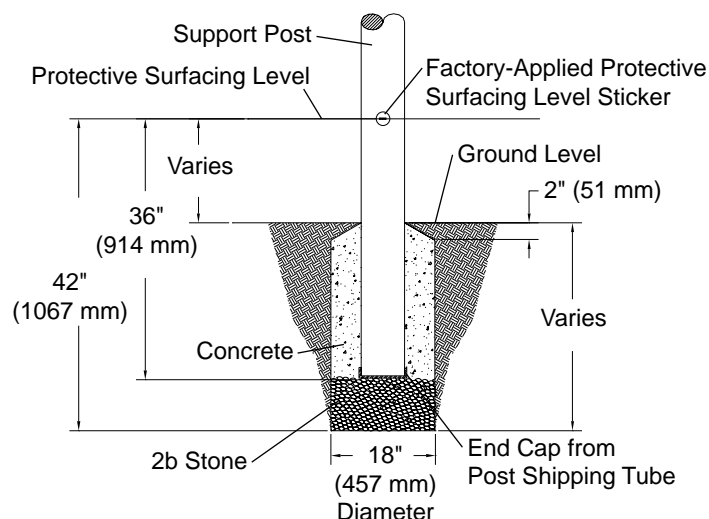
## Maintenance

- 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.

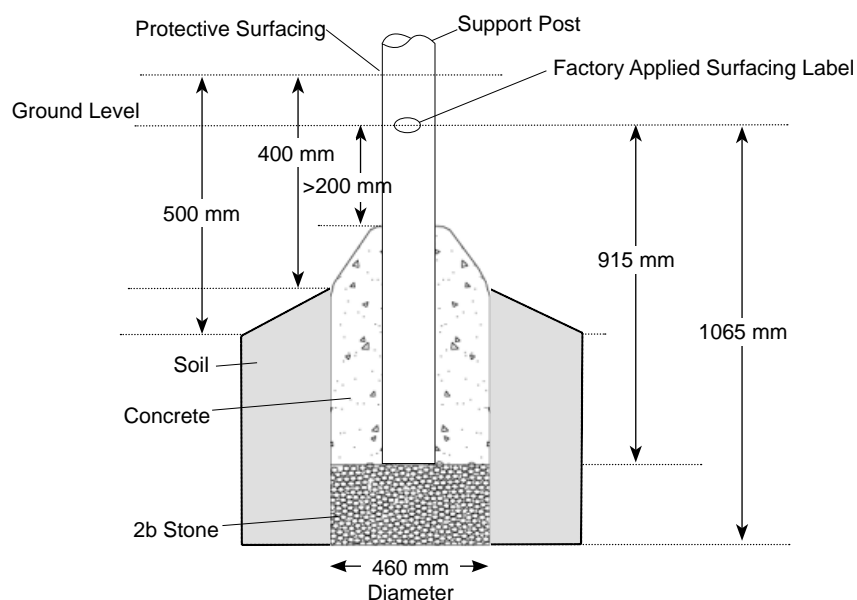
# Installation Instructions



Support Post Footing Detail (ASTM/CSA)

## FOOTING 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.



Footing Detail Support Post (EN)



Assembly View (representative model)

## Installation Instructions


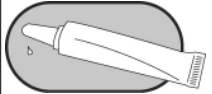

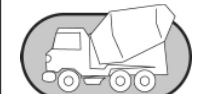



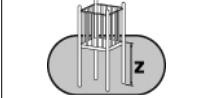
Playworld Systems® Model XX0287  
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing  
8 ft. (2438 mm) Top Rail

### 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.*

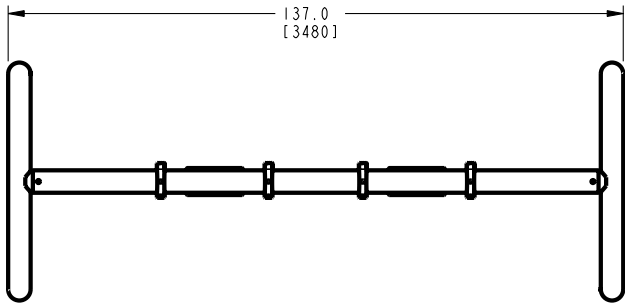
### ICON KEY

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

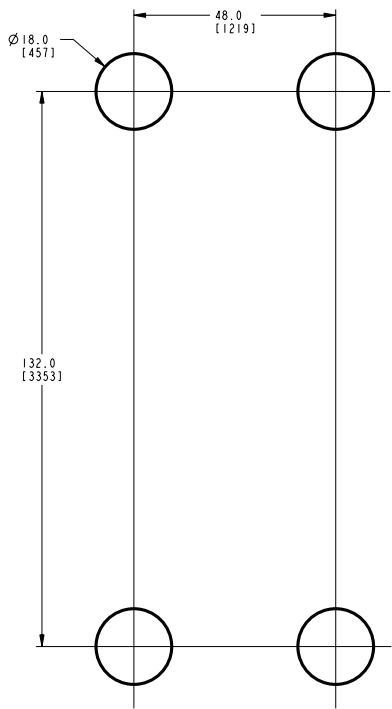
# Installation Instructions

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

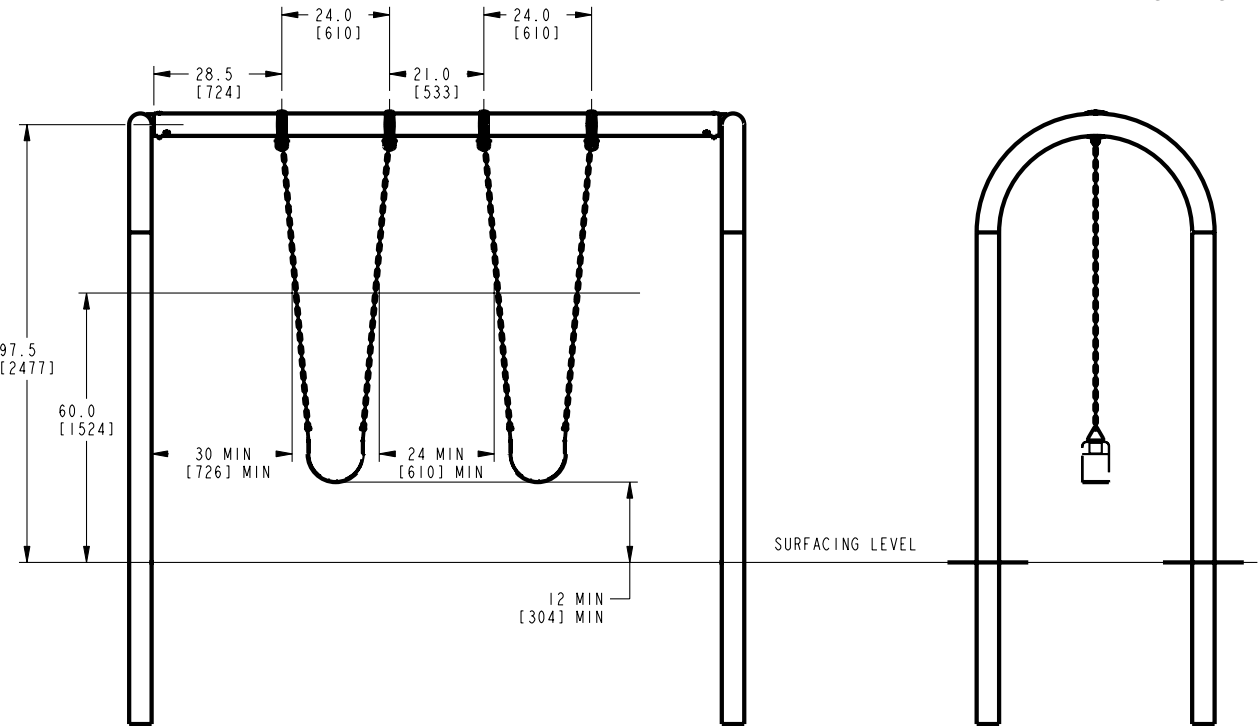
Top View



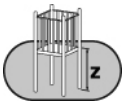
**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

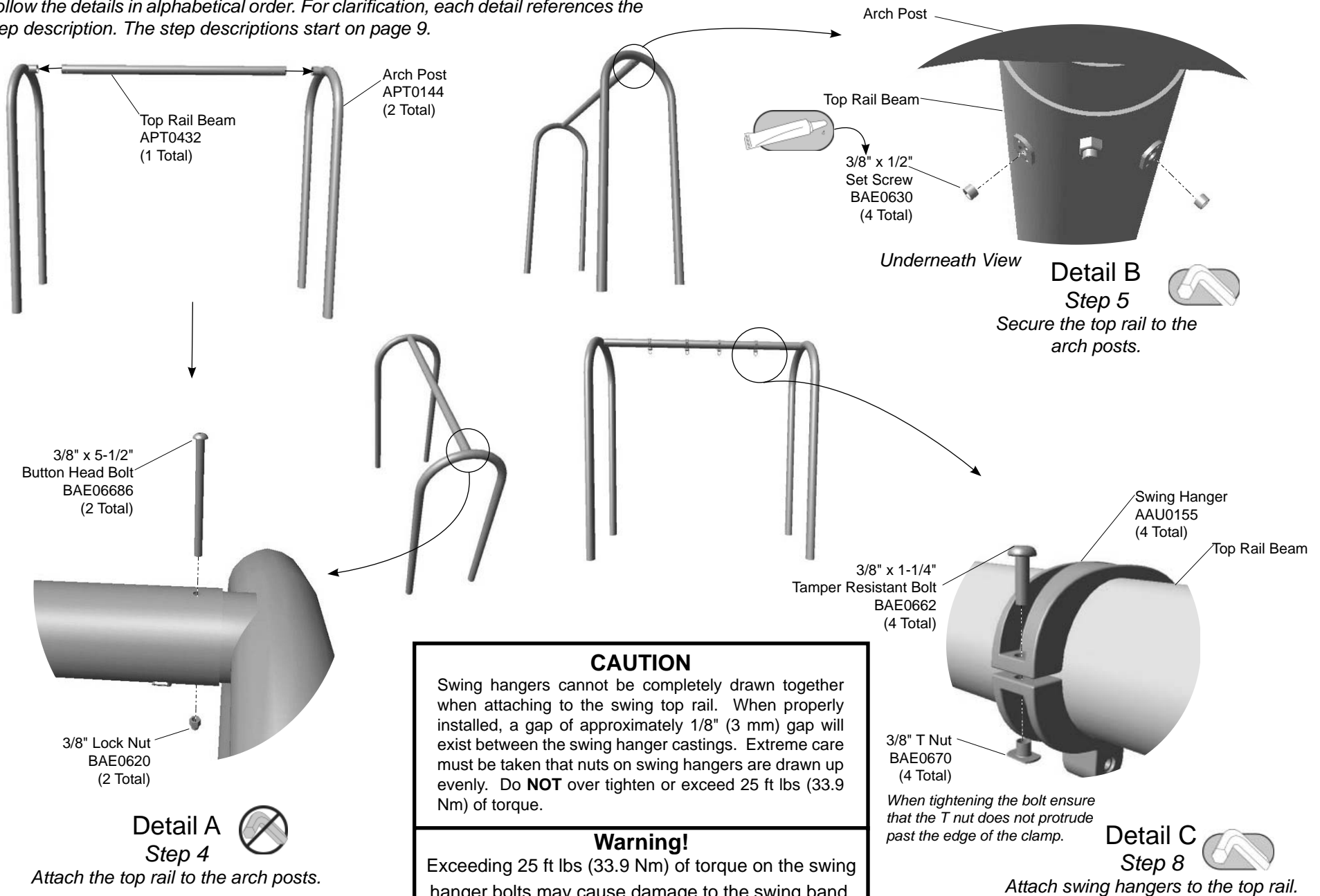


**Critical Fall Height**  
EN: belt seat - 1390 mm (mounted as shown)  
tot seat - 1545 mm (with seat at 610 above surfacing)



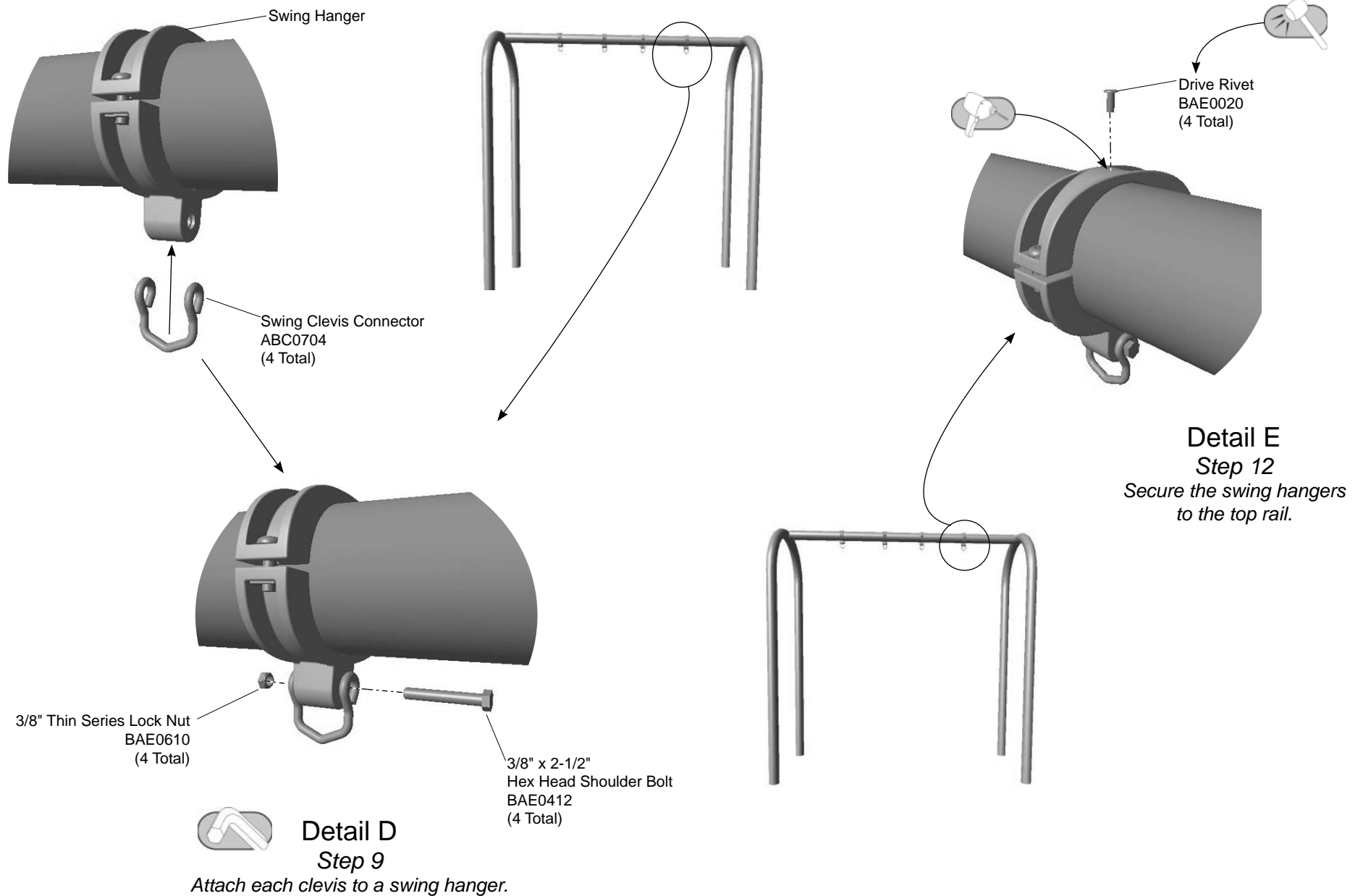
# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.





# Installation Instructions



# Installation Instructions

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**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

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**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**

<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.

# 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

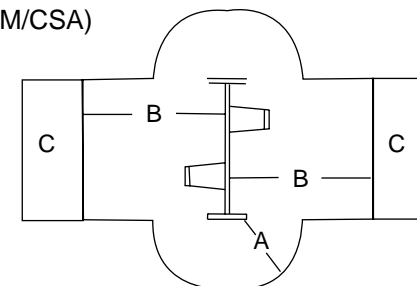
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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)

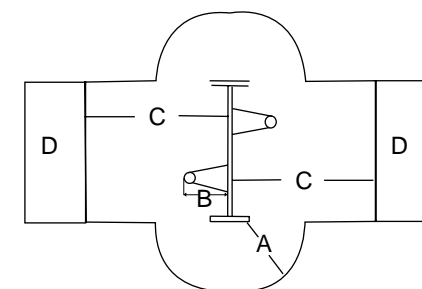
- A =** Side Use Zone  
72 in. (1829 mm)
- B =** End Use Zone  
Height of Pivot Point  
from Surfacing x 2  
Both Sides of Top Rail
- C =** No-encroachment Zone  
72 in. (1829 mm)



- 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

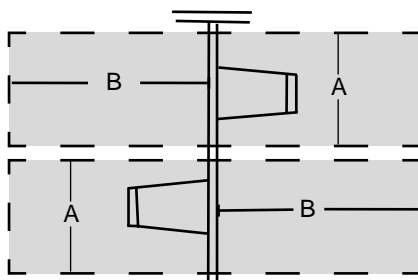
## (EN)

- 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 absorbency. 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

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- 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.

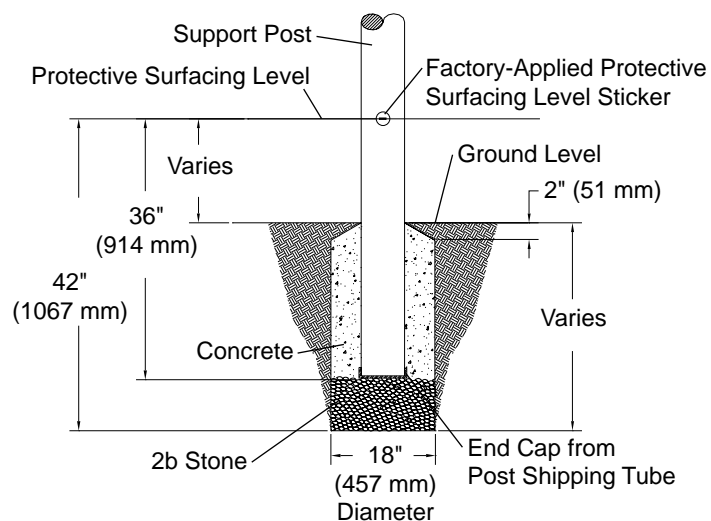
## Maintenance

- 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.

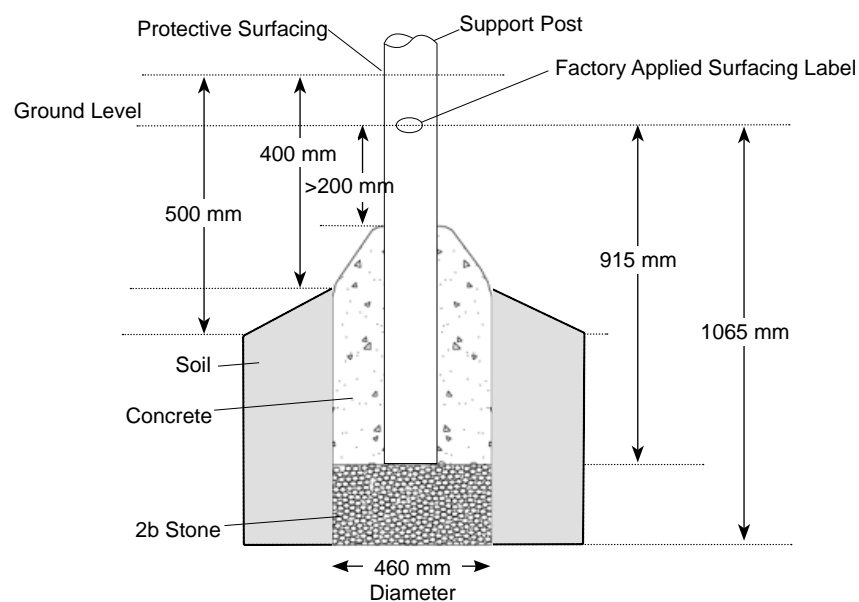
## Supervision Guidelines

- 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.



Assembly View

## Installation Instructions


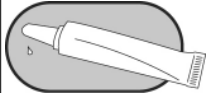

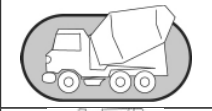


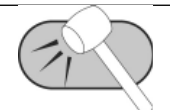
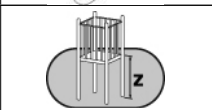
Playworld Systems® Model XX0370  
5 in. (127 mm) O.D. Aluminum Arch Swing  
2-Unit Add-A-Bay

### 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.*

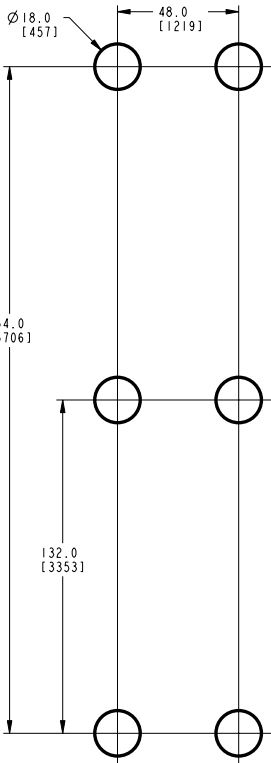
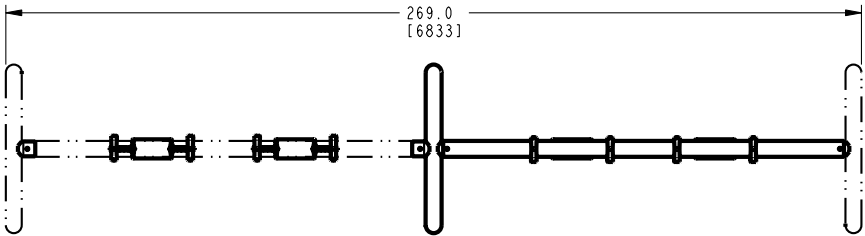
### ICON KEY

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

# Installation Instructions

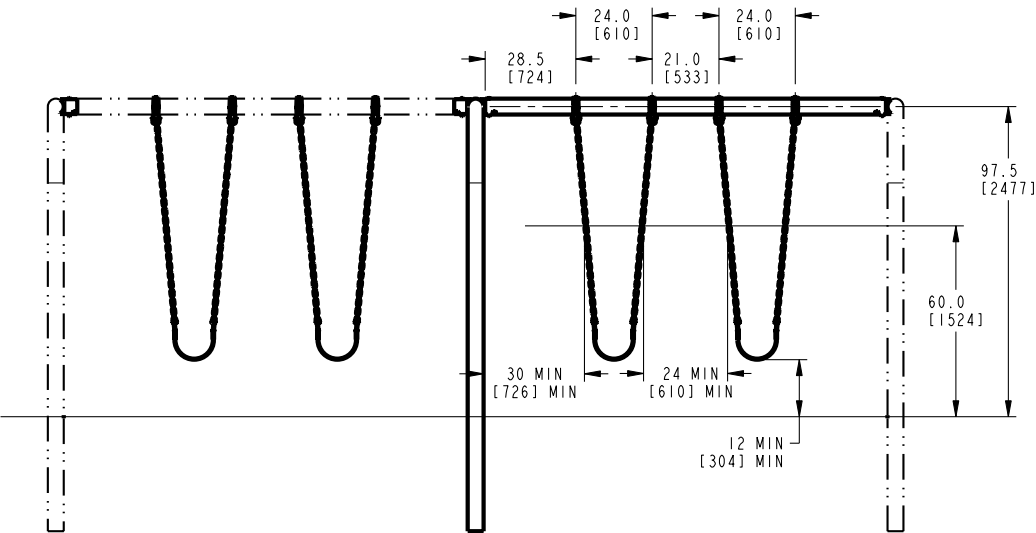
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

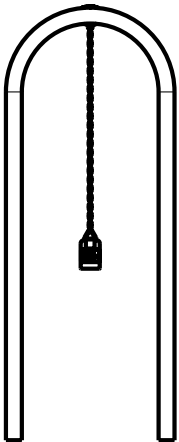


Footing Diagram

**Note:** Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.

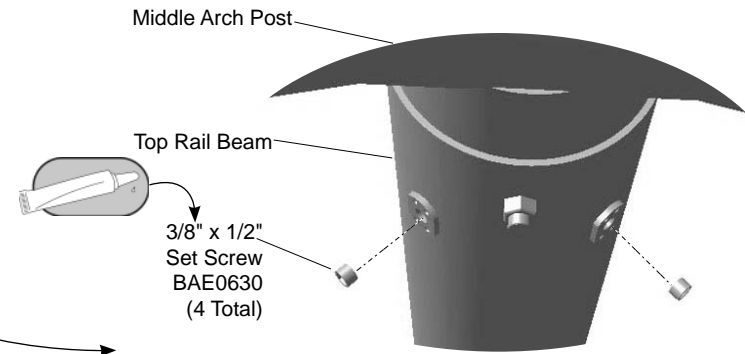
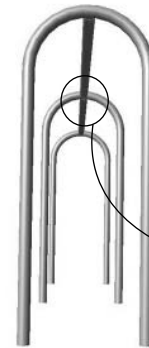
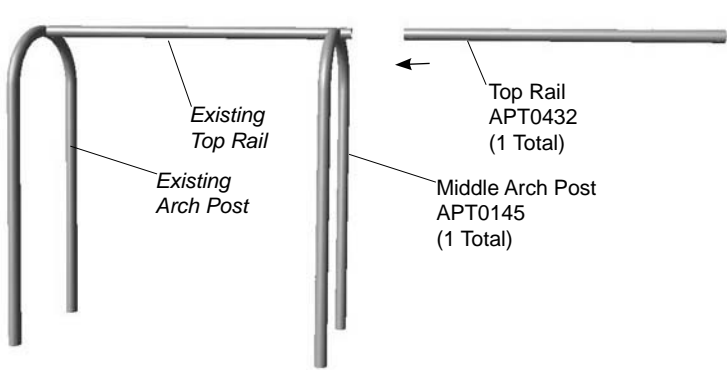


Elevation Views



# Installation Instructions

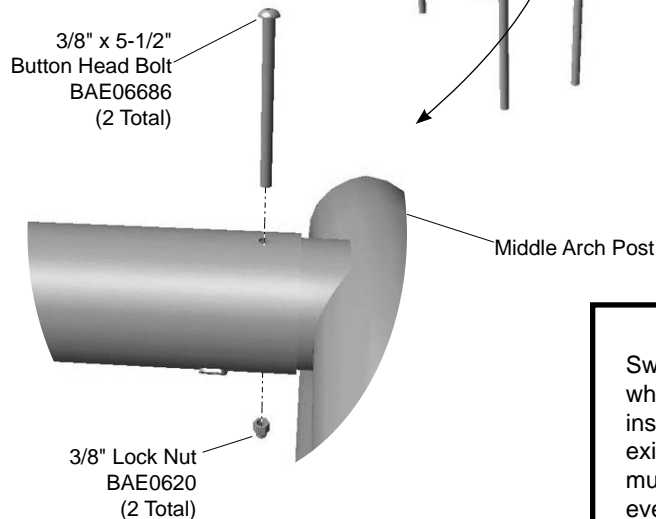
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

## Detail B Step 7

Secure the top rails to the middle arch post.



## Detail A Step 5

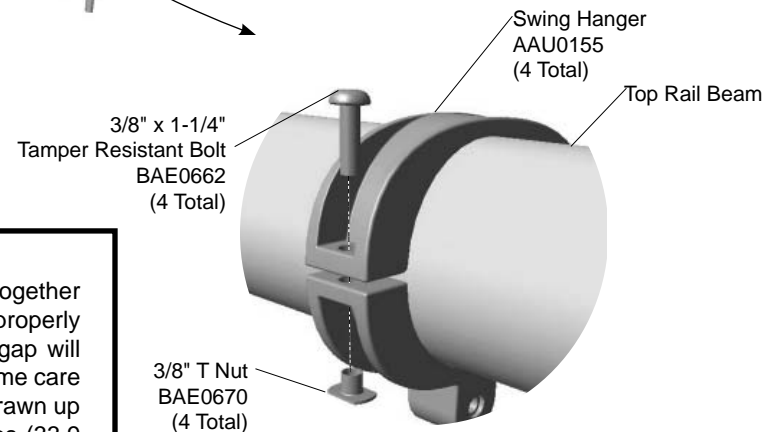
Attach both top rails (new and existing) to the middle arch support.

### 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.



When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

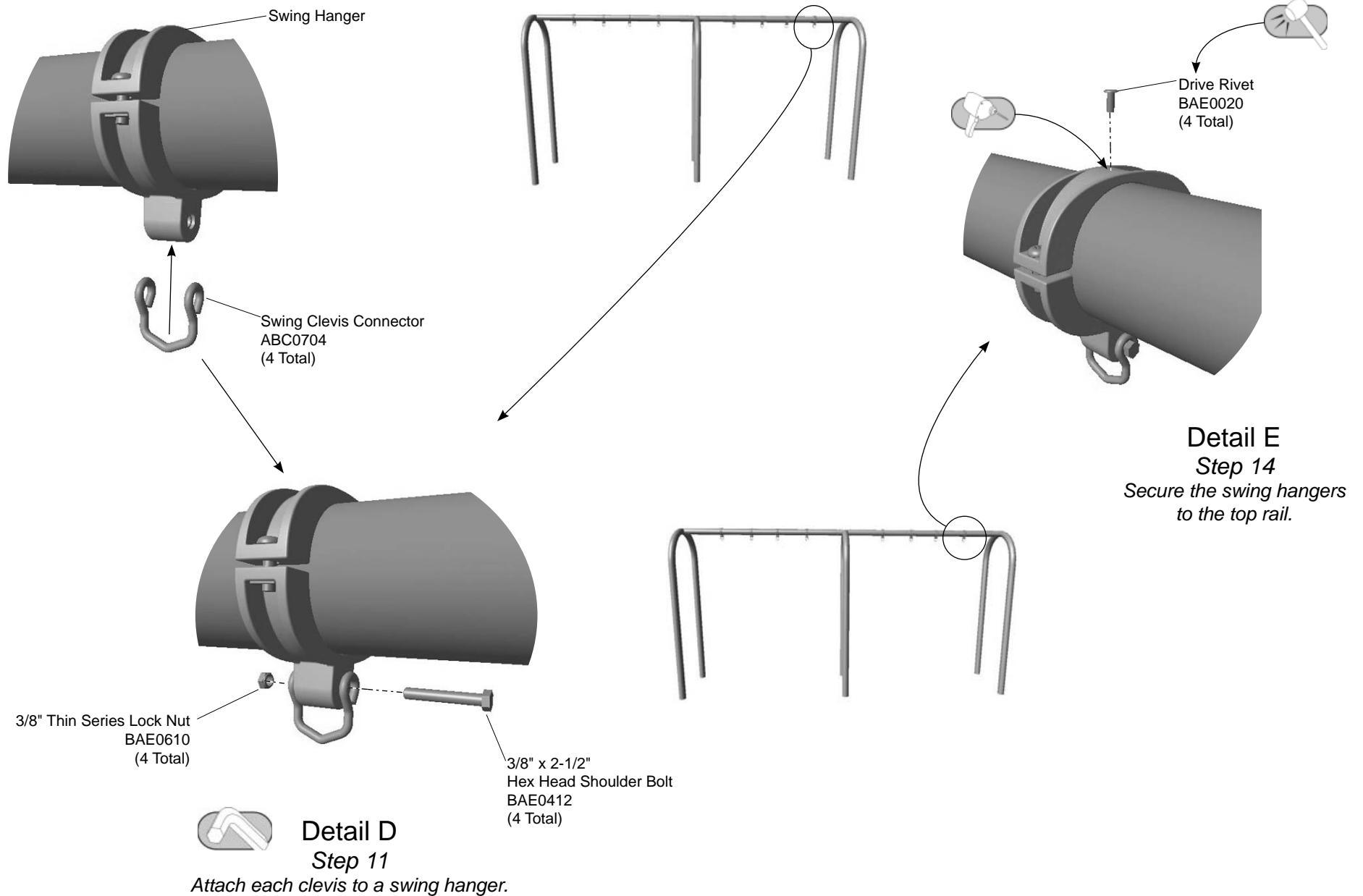
## Detail C Step 10

Attach swing hangers to the top rail.





# 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:** 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 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 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



# 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.

## Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



**Warning!**  
Exceeding 25 ft lbs (33.9 Nm) of torque  
on the swing hanger bolts may  
cause damage to the swing band.



# 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: \_\_\_\_ / \_\_\_\_ / \_\_\_\_