

TOWN OF LABRADOR CITY

FORM OF TENDER TLC-13-20

INSTALLATION OF PLAYGROUND EQUIPMENT

Tenderer _____

Address _____

Telephone # _____

The undersigned bidder has carefully examined the Form of Tender, Instructions to Bidders, and agrees to supply the system as per the attached specifications.

Quotation _____

H.S.T. 15% _____

Total Quotation _____

The above quotation shall include all freight charges, F.O.B., Tamarack Drive, Labrador City, NL.

The tenderer, if awarded the contract, agrees begin work within _____ weeks following notification of award of the contract.

Authorized Signature: _____ Date: _____

Contact Name: _____ Fax # _____

Email Address: _____

INSTRUCTIONS TO BIDDERS

1. TENDERS

- (a) Tenders shall be in a sealed envelope and clearly marked as per the following:

“TENDER FOR: Installation of Playground Equipment

addressed to the attention of the Town Clerk, Town Hall, P.O. Box 280, Labrador City, NL A2V 2K5.

Include Bidders Name and Return Address on Envelope

- (b) Tenders shall close at **3:00 p.m. local time**, Labrador City on:

July 8th, 2020

- (c) Before submitting a tender, tenderers shall carefully examine the tender documents and fully inform themselves of the contract requirements and existing conditions.
- (d) The Town will not defray any expenses incurred by the tenderers in the preparation and submission of their tenders.
- (e) Quotation shall be valid for acceptance for ninety (90) days from the tender closing date.
- (f) This tender is subject to the *Access to Information and Protection of Privacy Act, 2015*.
- (g) The financial value of this tender will be publicly released as part of the award notification.
- (h) If applicable, this tender is subject to trade agreements.

2. UNACCEPTABLE TENDERS

- (a) Tenders not submitted on the Tender Form provided will not be considered.
- (b) E-mail or facsimile tenders will not be accepted.
- (c) Tenders received after the tender closing time will not be considered.
- (d) Incomplete tenders will be rejected.
- (e) Tenders containing qualifications or additional clauses to the Tender Form may be rejected.

3. **SUBSTITUTIONS**

- (a) Tenders shall be based upon using the materials or products as specified without substitution. Where two or more brand names are specified, the choice shall be left to the successful bidder. Where only one brand name is stated, there shall be no substitution.
- (b) Where the specifications include the **OR APPROVED EQUAL** clause, substitutions may be proposed provided that:
 - (i) The request for substitution is made in writing at least seven (7) days prior to the tender closing date.
 - (ii) The request shall clearly define and describe the products for which the substitution is requested.
 - (iii) The substitution item is equivalent to the described item with regard to design, function, appearance, durability, operation and quality.
 - (iv) Approval of the substitution by the Town shall be in the form of an Addendum to the specifications issued to all the tenderers listed as having received a copy of the contract documents.

4. **ACCEPTANCE OF TENDERS**

- (a) The Town will not necessarily accept the lowest or any tender.
- (b) Upon acceptance of the tender, the Tender Form becomes part of the Contract Documents and the successful tenderer becomes the Contractor.
- (c) One payment shall be made in accordance with the contract as follows:
 - (i) Upon acceptance of all material or products, or upon substantial completion of the work.
 - (ii) Within thirty (30) days of receipt of the invoice by the Town.
- (d) The Town reserves the right to accept a non-compliant bid.

5. **PERSON TO CONTACT**

For further information contact Adam Smith at the following telephone number **709-944-7172** or fax number **709-944-2443**

6. Workers Compensation & Insurance

The Contractor covenants with the Town that its employees shall be fully covered within Worker's Compensation Regulations, and the Company shall on request furnish to the Town satisfactory proof that its employees are fully covered under the Worker's Compensation Act.

Prior to performing work hereunder, the Company agrees to provide the Town with confirmation of full insurance coverage including, without restricting the generality of the foregoing, Comprehensive General Liability Insurance of at least two million dollars (\$2,000,000.) covering the equipment. The Company shall be required to add the Town Council of Labrador City to this insurance policy as a named insured. The Town shall require thirty (30) days written notice of any material change in or cancellation of the insurance policy.

7. Safety

The Town of Labrador City will strictly enforce safety requirements as per the Occupational Health & Safety Act. All items of safety apparel/equipment shall be the responsibility of the contractor.

8. Taxes

- (a) Business Tax – In accordance with the Municipalities Act, 1999 as amended, all businesses carrying on business in the municipality shall be charged an annual tax to be known as “the business tax”. All companies doing business in the Town of Labrador City who are not subject to a property tax payable to either the Town of Labrador City or the Town of Wabush or a place of business that cannot be assessed under the Assessment Act, shall be assessed as “no fixed place of business” and billed at the rate of 3% of gross revenue with a minimum of \$300 and a maximum of \$5,500 per calendar year.
- (b) The Town of Labrador City is subject to the Harmonized Sales Tax at the rate of 15%.
- (c) Above referenced tax shall be shown separately on all invoices presented to the Town of Labrador City for payment.

The sums herein tendered include all taxes, royalties, custom duties, foreign exchange charges, transportation, traveling costs, all overhead and profit, all co-ordination fees, insurance premiums and all other charges.

The Town of Labrador requires the installation of the following Playground Equipment and Concrete slab.

General

The project involves the installation of four pieces of playground equipment and one access ramp.

A 24ft by 60ft concrete slab will be cast in place once playground equipment foundations are completed. The Concerto Vibes and Concerto Five Congas can be integral to the slab (surface mounted). See attached Sketch.

Specifications

1.0 Playground Equipment

- 1.1 **Accessible Whirl, by Little Tikes Commercial**
- 1.2 **Concerto Vibes, Model Number: 200203438 by Little Tikes Commercial**
- 1.3 **Rock n Ship, by Little Tikes Commercial**
- 1.4 **Concerto Five Congas, by Little Tikes Commercial**

2.0 Installation

The playground equipment will be installed at the Centennial Playground in Labrador City. Exact locations to be determined after tender closing and provided to the successful bidder through a site visit with a Town representative.

2.1 Foundations for the playground equipment shall be installed as per the manufacturer's instructions. Foundation plans shall be submitted with tender. Detailed foundation plans from the supplier is attached.

Comply: Yes_____, No_____. If No Explain_____

2.2 Assembly of the equipment shall be as per the manufacturer's instructions. Instructions supplied by owner.

Comply: Yes_____, No_____. If No Explain_____

2.3 Erect and maintain a safety enclosure around the work site. Snow fencing attached to reinforcing steel rods or other enclosure methods as approved by the Owner may be used for this purpose.

Comply: Yes_____, No_____. If No Explain_____

2.4 Maintain the worksite in a neat and tidy condition. Remove all debris and dispose of in an approved location.

Comply: Yes_____, No_____. If No Explain_____

2.5 Confirm the location of the foundation(s) with the Owner before proceeding with the work.

Comply: Yes_____, No_____. If No Explain_____

2.6 Removal and disposal of unsuitable excavated material shall be the responsibility of the bidder.

Comply: Yes_____, No_____. If No Explain_____

2.7 All materials and equipment required for the construction of the playground equipment foundation(s) will be the responsibility of the bidder.

Comply: Yes_____, No_____. If No Explain_____

3.0 Concrete - Slab on Grade

3.1 It is assumed that the existing sub base material is suitable as concrete base material. If there are areas of unsuitable concrete base material, the contractor shall remove. It shall be the responsibility of the owner to supply the needed sub base material if required. Placement of the supplied concrete base material shall be done by contractor.

Comply: (Yes)____ (No)____ (If no explain)_____

3.2 Removal of unsuitable sub base material shall be the responsibility of the contractor, unsuitable shall be disposed at a designated on site location. Final disposal of unsuitable material will be the responsibility of owner.

Comply: (Yes)____ (No)____ (If no explain)_____

3.3 Concrete shall be cast in place, 30 Mpa compressive strength and supplied by Contractor.

Comply: (Yes)____ (No)____ (If no explain)_____

3.4 Concrete slab shall be 4" thick. Control/expansion joints shall be installed at a minimum of 20 feet apart.

Comply: (Yes)____ (No)____ (If no explain)_____

3.5 Concrete slab shall be reinforced by 6x6x6/6 welded wire mesh. The Contractor shall supply and install the wire mesh.

Comply: (Yes)____ (No)____ (If no explain)_____

4.0 **Safety**

The Town of Labrador City being the principle contractor must ensure subcontractors work safely and comply with the OH&S Legislation. In order to accomplish this, the Supervisor or his or her designate shall receive the following documentation prior to awarding a job, but not limited to:

- Compliance Profile (History of subcontractor obtained from Service NL OH&S Division)
- Copy of Safety records before hiring/ awarding work
- Copy of OH&S documents e.g. programs/ safe work procedures, etc.
- Copy of names and contact information of adequate supervision
- Copy of all accidents after job starts
- Copies of safety meetings once the job starts
- Copy of maintenance records of tools/ equipment
- Copy of Hazard assessment
- Copy of training certificates
- Copy of Permits/ Utility clearances where required
- Emergency Plan (Strictly for Confined Space and working at heights using fall protection) where required.
- Copy of Letter of good standing
- Copy of Safe Work Practices
- Applicable standards and guidelines
- Copy of inspections once the work starts

Comply: Yes _____, No _____. If No Explain _____

5.0 **Warranty**

5.1 The Contractor shall warrant for one year from date of completion of work that the equipment, material, and workmanship be free from defects.

Comply: (Yes)____ (No)____ (If no explain)_____

6.0 **Exceptions to bid specifications**

Clause #	Explanation
_____	_____
_____	_____
_____	_____
_____	_____



Project Number: 10005190181

PlayArea: PlayArea_1 | KidBuilders

Project Name:

Project Location:

Sales Representative:

Coastline Specialties Ltd
46 Robin Hood Bay Road
St. John's, NL A1A 5V3
(709) 726-9155

Installation Instructions

Please, read all information in this manual before starting to install your equipment.

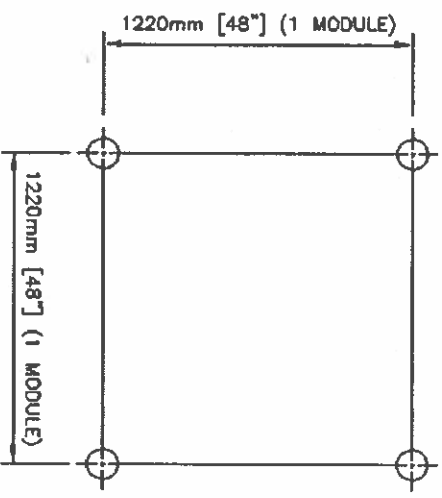
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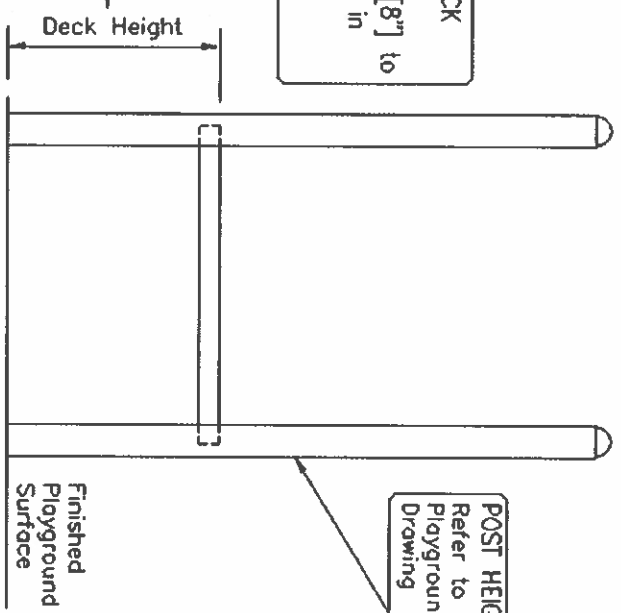
INTRODUCTION

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KB000001A

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



STANDARD DECK HEIGHTS:
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



POST HEIGHTS:
Refer to Playground Layout Drawing

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, PLEASE READ INSTRUCTIONS THOROUGHLY

AUTHORIZED BY:
Chris M. McInnes 15MAR01

SITE REQUIREMENTS:

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions, i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

MAINTENANCE:

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

INSTALLATION MANUAL:

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.



GENERAL INFORMATION

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KB000002A-S1
Sheet 1 of 2

AUTHORIZED BY:
Steve M. Williams 15MAR01

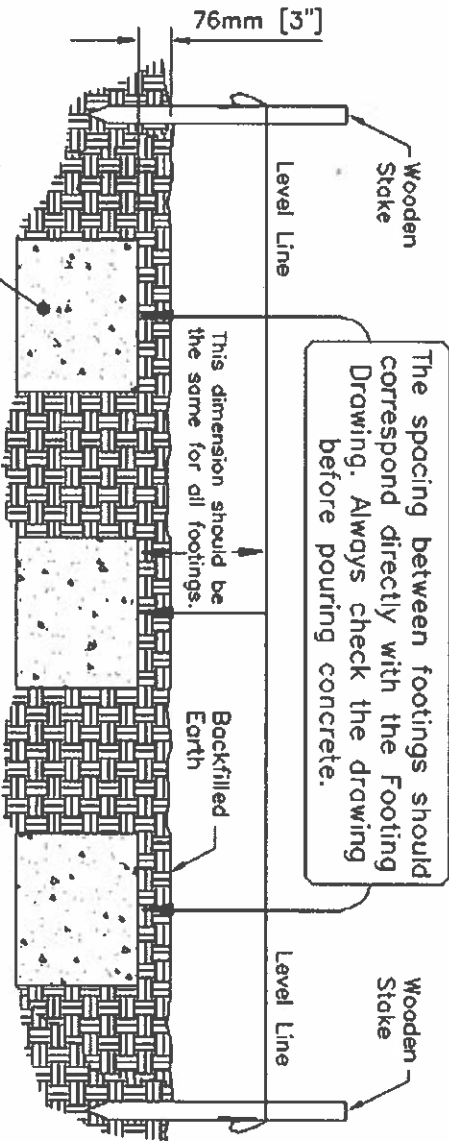
THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install all roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm[3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft³
207 grams = 0.041m³

If installing with the Inground method, you must always backfill footings with at least 76mm[3"] of earth after concrete has cured (not shown).

SUGGESTED TOOLS:

- | | |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels | - Extension Cords |
| - 1 1220[48"] Carpenter's Level | - Water Supply/Garden Hose |
| - 2 Measuring Tapes | - Wooden Stakes |
| - 1 Felt Tip Pen | - Concrete (in some cases) |
| - 1 Sledge Hammer or Rubber Mallet | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit |
| - 1 Roll of String | - Adjustable Wrenches |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set |
| - Electric Drill | - Various Drill Bits |
| - C-Clamps | - Wheel Barrow |
| - Saw Horses | - Ladders |
| - Resilient Ground Cover | - Generator/ Power Source |



GENERAL INFORMATION

200002522
KB000002A-S2
Sheet 2 of 2

AUTHORIZED BY: *Chris M. Anderson* 15MAR01



WARNING

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO. PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tiles Commercial Play Systems Inc.
P.O. Box 897
Farmington, MO 63640

For more information, call Little Tiles Commercial Play Systems Inc. at 1-888-458-2737 or 1-573-756-4591



This label has been provided by Little Tiles Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

(1) Be readily visible to the intended viewer and,

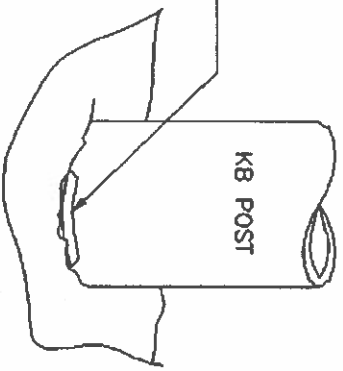
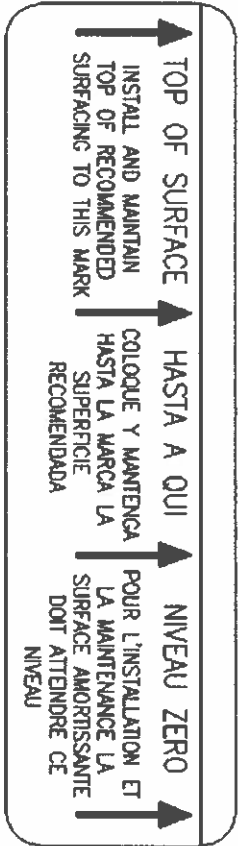
(2) Alert the viewer to the potential hazard in time to take appropriate action.

Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

SLIDE INSTALLATION:

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.



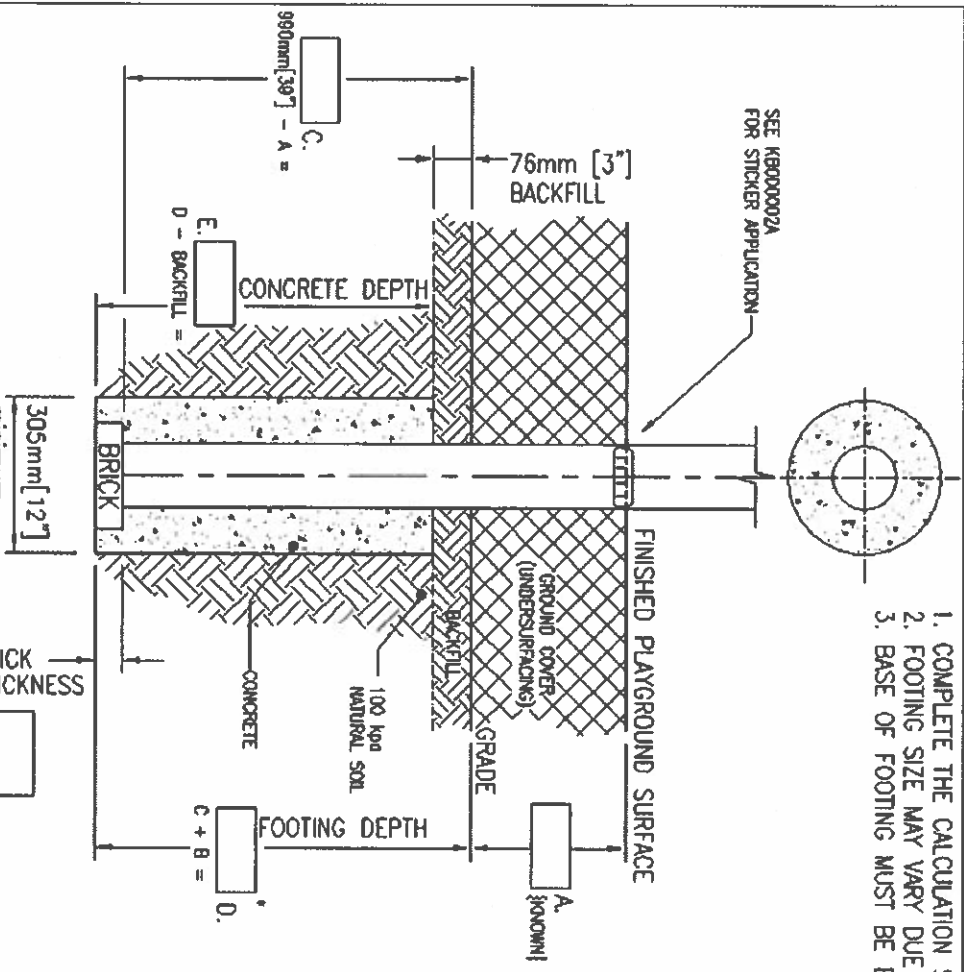
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

INGROUND FOOTINGS

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KB000003B

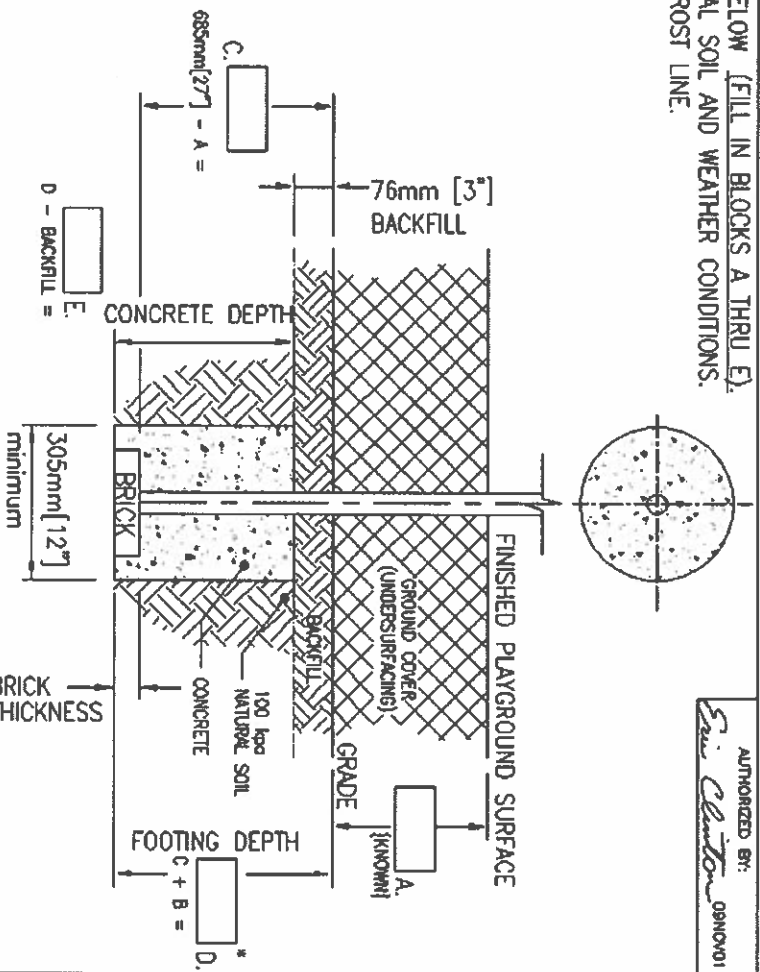
AUTHORIZED BY:
Eric Cantor 08/NOV/01

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



- A. GROUND COVER DEPTH {KNOWN};
 - B. BRICK THICKNESS {KNOWN};
 - C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
 - D. FOOTING DEPTH = [C] + BRICK THICKNESS.
 - E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).
- *MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED**

KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN};
 - B. BRICK THICKNESS {KNOWN};
 - C. 685mm[27"] - A
 - D. FOOTING DEPTH = [C] + BRICK THICKNESS.
 - E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).
- *MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED**

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ m}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{m}^3$$

$$= 0.067 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

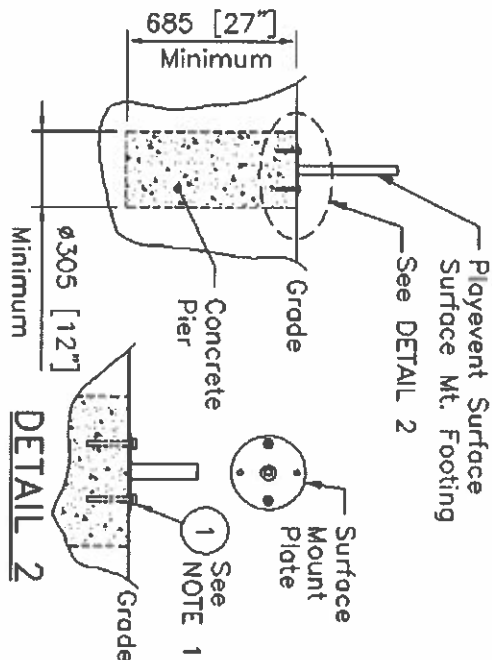
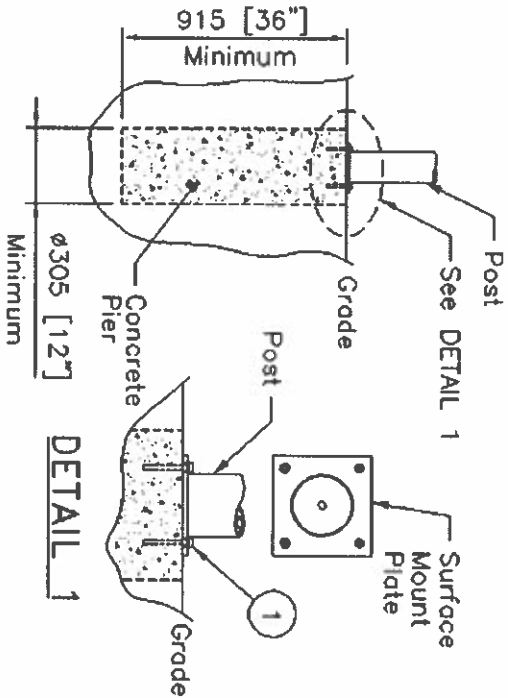


SURFACE MOUNT FOOTINGS

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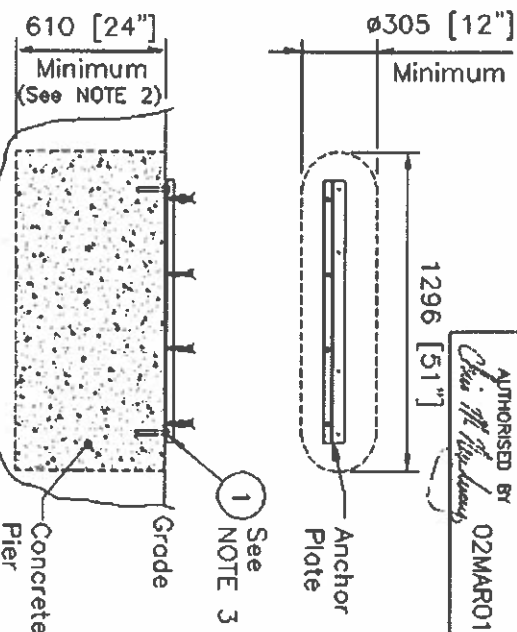
Authorised by
Chris M. Hildebrand
02MAR01

OPTION 1: PIER



NOTE 1: Two per plate, diagonally located.

Round Anchor



NOTE 2: Depth is less than round anchor because of extra volume of concrete.

NOTE 3: Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

Post Footing Parts List (Surf. Mt. Anchor)

Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

Post Footing

Playevent Footing Parts List (Surf. Mt. Anchor)

Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

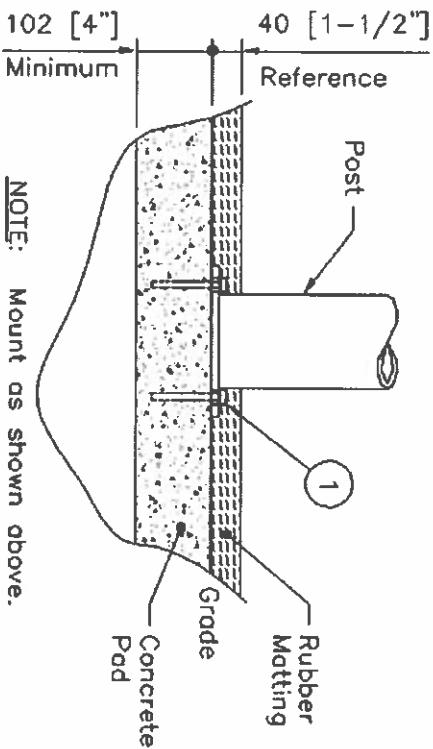
Playevent Footing

OPTION 2: CONCRETE PAD

NOTE 4: Concrete may require up to 3 days to cure.

NOTE 5: A 3/8\"

Masonry bit is required to install anchor bolts.



NOTE: Mount as shown above.

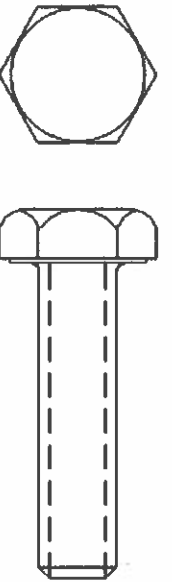


HARDWARE - HEX HEAD M10 SCREW

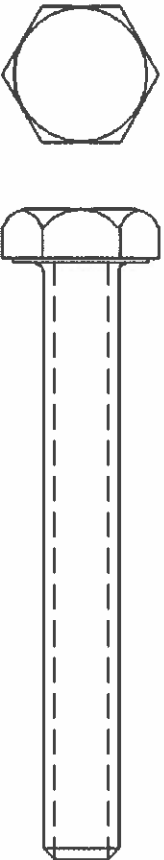
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AUTHORIZED BY: *[Signature]*
01MAR01

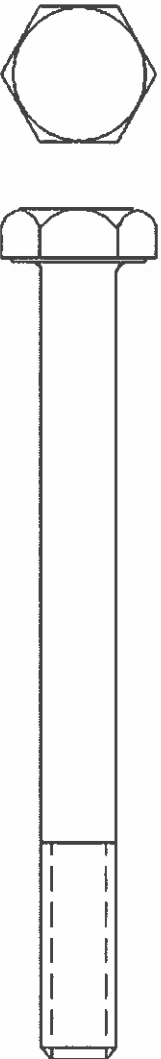
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



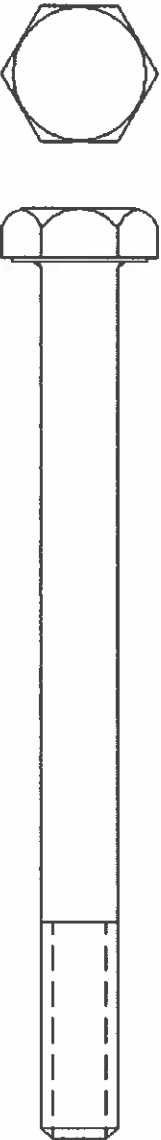
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



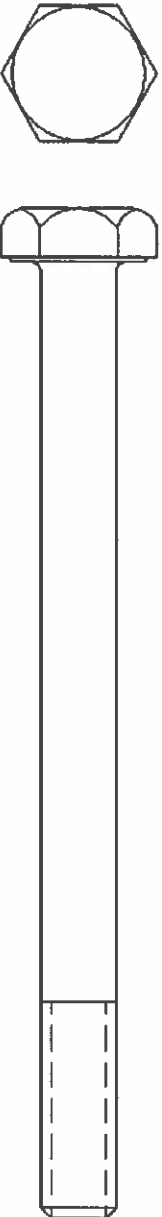
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



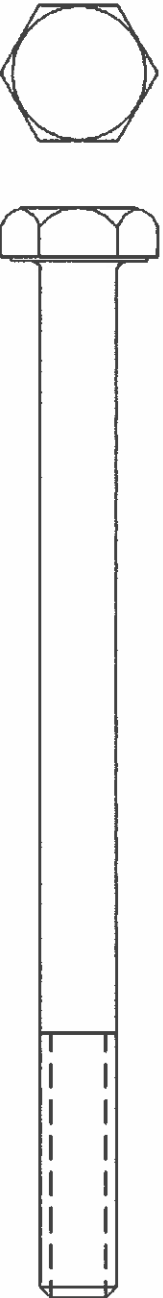
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



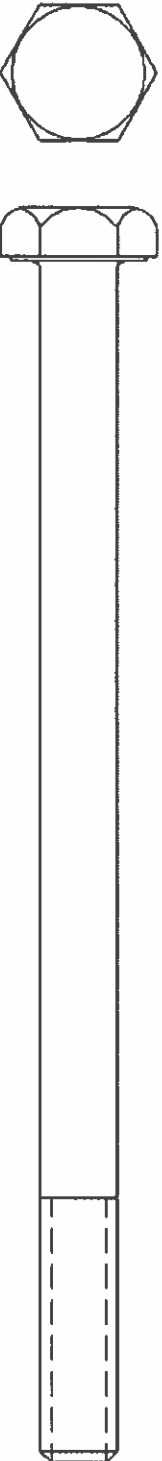
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm



200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm



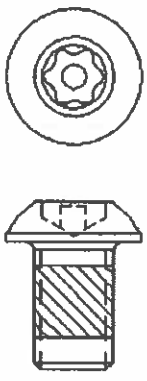
HARDWARE THAT IS UNIQUE TO A SPECIFIC ITEM MAY NOT BE SHOWN HERE.



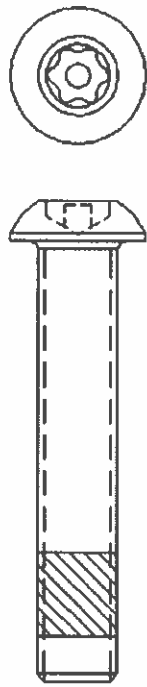
HARDWARE - M10/M8 BUTONHEAD SCREWS/BOLTS MALE/FEMALE

200106460
KB000007B

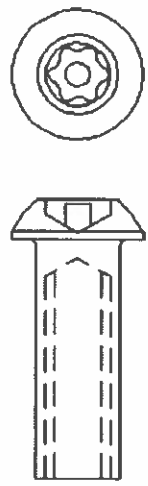
AUTHORIZED BY:
BARRY WILFONG
13FEB12



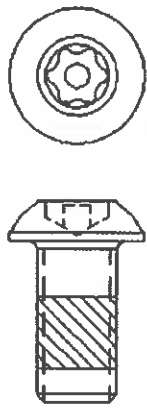
200002010
SCREW MACH BUTONHEAD M10 x 1.50 x 16mm



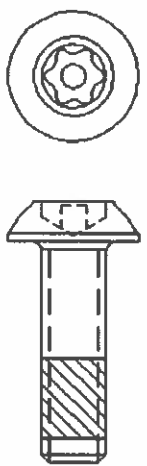
200002150
SCREW MACH BUTONHEAD M10 x 1.50 x 55mm



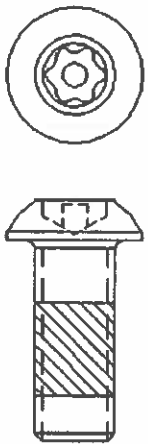
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



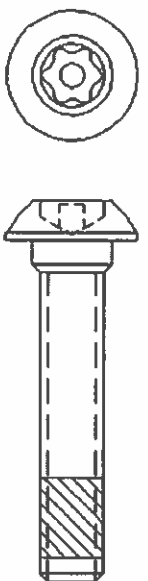
200002014
SCREW MACH BUTONHEAD M10 x 1.50 x 20mm



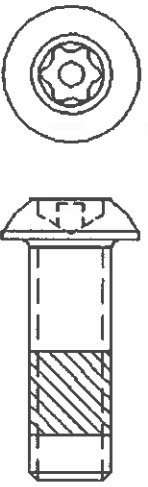
200002133
BOLT M8 x 1.25 MALE 27.5mm



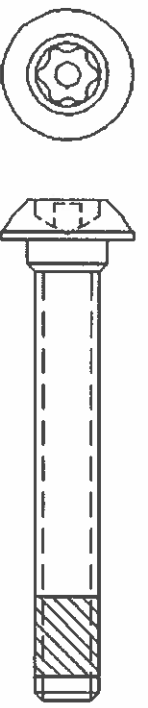
200002018
SCREW MACH BUTONHEAD M10 x 1.50 x 25mm



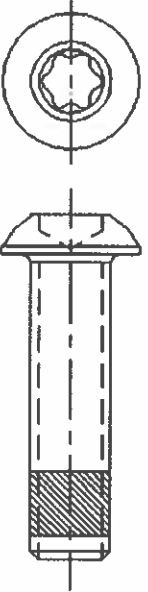
200002138
BOLT M8 x 1.25 MALE 42.5mm



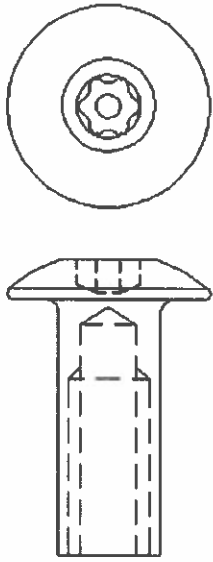
200002030
SCREW MACH BUTONHEAD M10 x 1.50 x 30mm



200002142
BOLT M8 x 1.25 MALE 57.5mm



200097726
SCREW MACH BUTONHEAD M10 x 1.50 x 38mm



200001954
BARREL NUT M10 x 1.50 (12.70 DIA x 32mm)

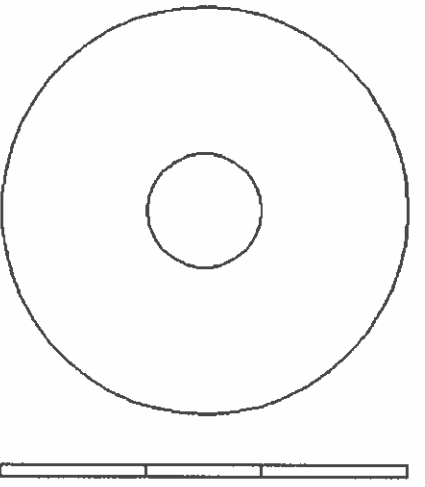
HARDWARE THAT IS UNIQUE TO A SPECIFIC ITEM MAY NOT BE SHOWN HERE.



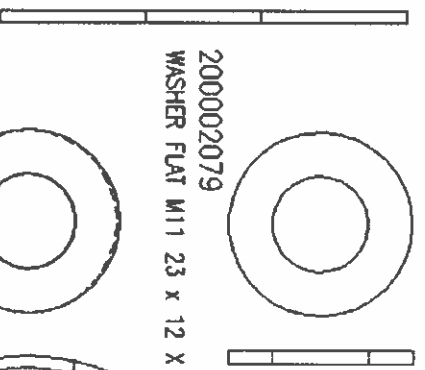
HARDWARE - WASHERS, MISC.

200106461
KB0000088

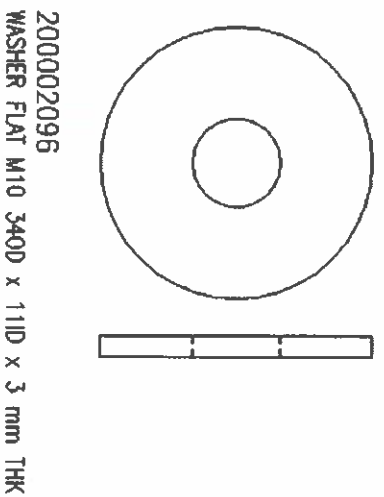
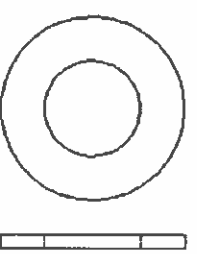
AUTHORIZED BY:
BARRY WILFONG 15FEB12



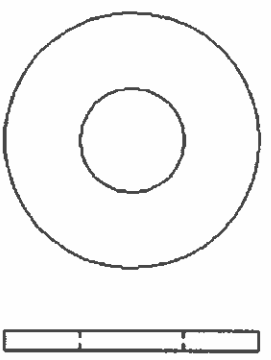
200002113
WASHER FLAT M12 (51 x 14.5 x 2mm)



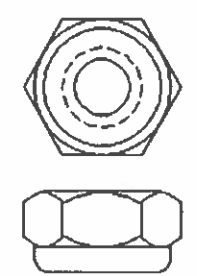
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WASHER FLAT M11 23 x 12 x 1.6mm



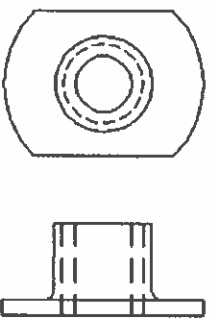
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WASHER FLAT M10 34.0D x 11.0D x 3mm THK



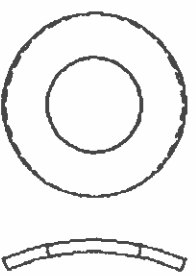
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WASHER FLAT M11 32.0D x 13.0D x 2mm THK



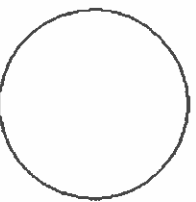
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



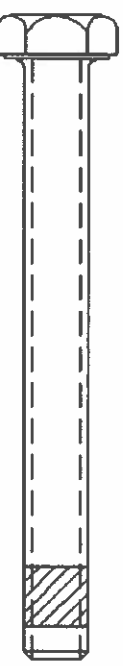
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57mm



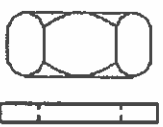
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



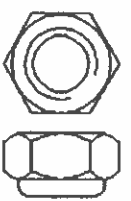
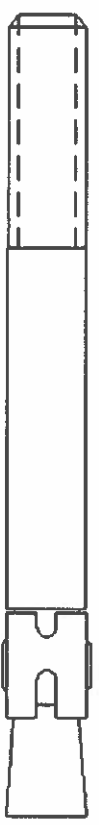
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm

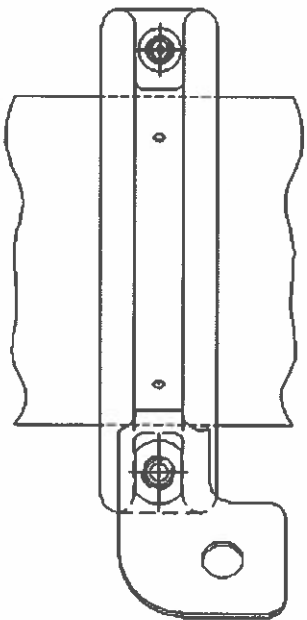


200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25

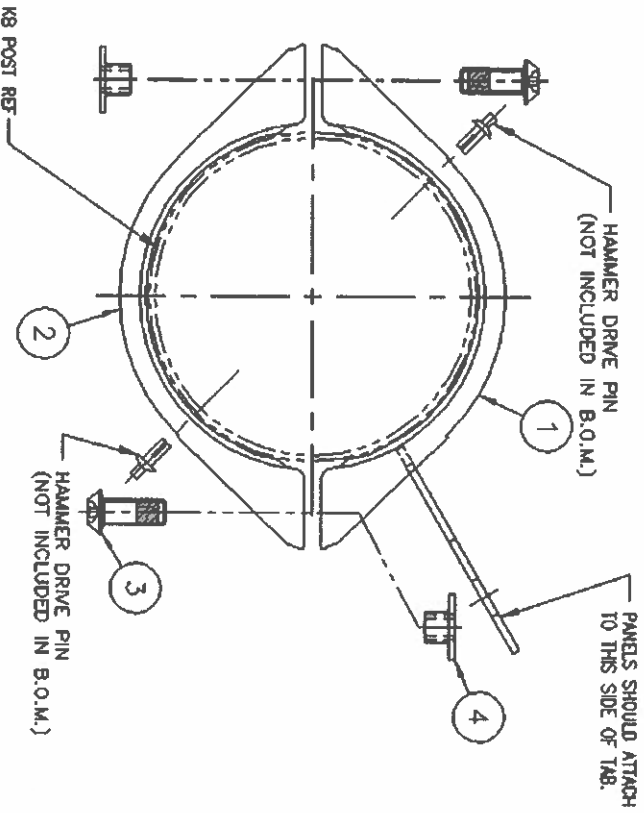
HARDWARE THAT IS UNIQUE TO A SPECIFIC ITEM MAY NOT BE SHOWN HERE.



CLAMP HI-LO TAB F/KB



NOTE:
TAB WILL BE DIRECTED UP (AS SHOWN) ON ONE SIDE OF THE PANEL AND DOWN ON THE OTHER SIDE OF THE PANEL.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB000009A

AUTHORIZED BY: *[Signature]* 03AUC99

CLAMP HI-LO TAB F/KB

200079200

CLAMP HI-LO TAB F/KB

Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/KB	1
2	-	CLAMP HALF W/O NUTTED ATTACHMENT	1
3	200007018	SCREW MACH BOLT/HEAD M10 X 1.50 X 75MM	2
4	200001965	T-NUT SLAB BUSH M10 X 1.50 X 9.5MM	2

Application

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

Maintenance

- CHECK ALL HARDWARE
- TOUCH UP ANY DAMAGED PAINT SURFACE

Specifications

CLAMP
MATERIAL: STAMPED SHST
COLOR: AS SELECTED FROM STD. COLOR RANGE.
FINISH: ELECTROSTATICALLY APPLIED POLYESTER DRY POWDER COAT

EASTENERS
FINISH: STAINLESS STEEL

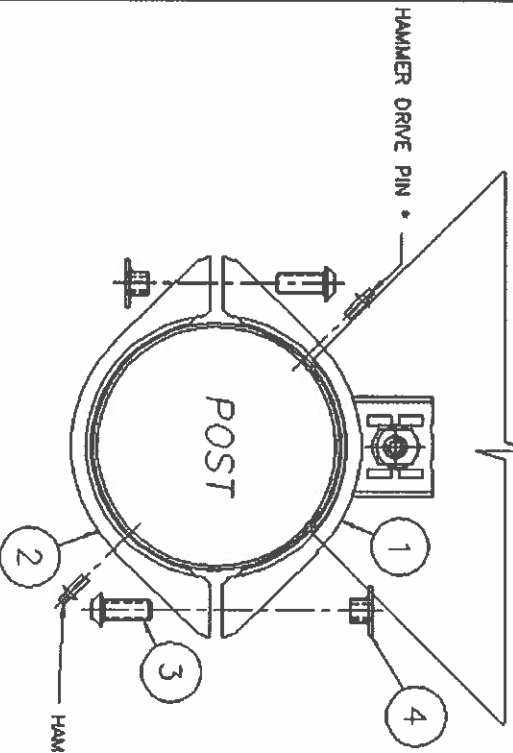
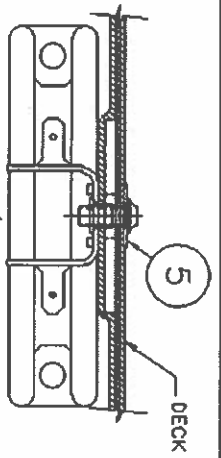
Installation Instructions

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMP SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LIES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAIN/ROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (OTHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. RESERT THE HAMMER DRIVE PIN AND BE SURE THE CENTER CORE PIN NUMBER UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPARATELY FROM CLAMP HARDWARE.



STANDARD DECK AND PANEL OR WING CLAMP DETAILS

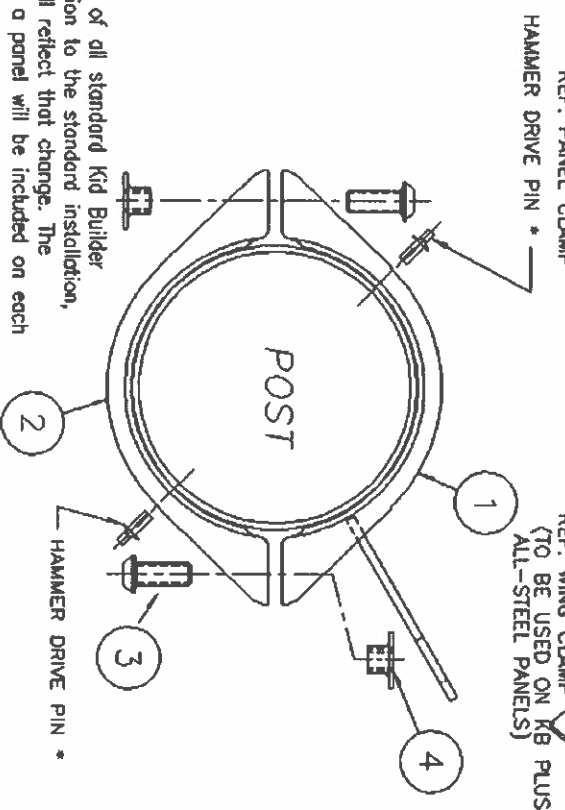
200106608
KB000010C



ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 3200 X 1310 X 2 MM THK	1

PANEL OR WING CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR- 1	-	CLAMP HALF W/TAB F/KG WING CLAMP	1
2	200002018	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200001966	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	1
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar point surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY: *[Signature]* 02MAR11



STANDARD RAIL CLAMP DETAILS

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar point surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

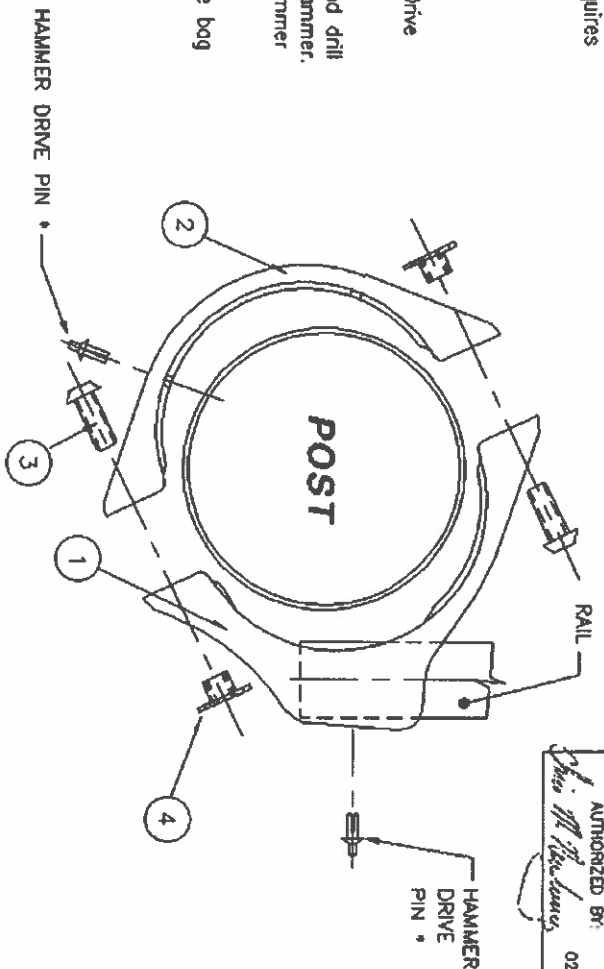
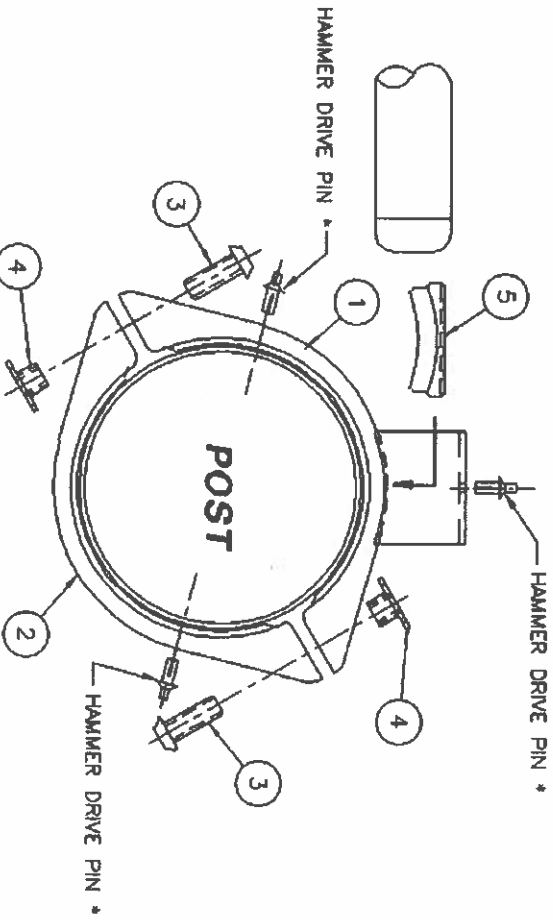
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

200002530
KB000011A

AUTHORIZED BY: *Chris M. McInerney*
02MAR01

30 DEG. RAIL CLAMP W/ WEDGE

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KG CLAMP F/SLOT	1



HOODED RAIL CLAMP

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2

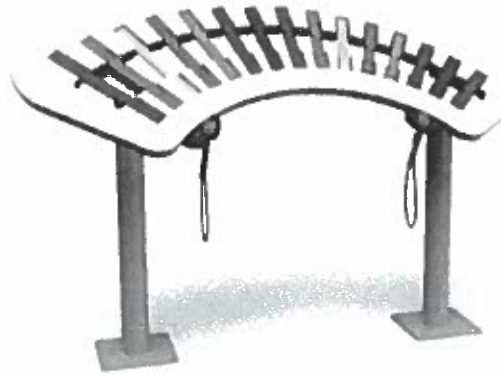


Concerto™ Vibes - In-Ground and Surface Mount

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly manual** and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

MODEL
200203438

DESCRIPTION
Concerto Vibes



Surface Mount shown

200203438- CONCERTO VIBES			
ITEM	CODE	DESCRIPTION	QTY
1	903671*	FRAME - CONCERTO FLAT CHIME	1
2	903704	FLAT CHIMES	1
3	903657*	POST - 34.76" X 10.81" X 10.00" SM	1
4	903493*	POST - 68.76" X 9.48" X 10.81" ING	
5	903658*	POST - 34.64" X 12.67" X 14.78" SM	1
6	903492*	POST - 71.64" X 12.56" X 14.63" ING	
7	304273	BOLT M8 X 1.25 MALE 25MM	16
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
9	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	8
10	117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	32
11	BAE9062	SCREW #8 X 1.00" ROUNDED HEAD TORX	28

Note:

- For replacement purposes only, the part number (CODE) for the mallet is 903412.
- Some models may include part number (CODE) 117005 in place of the BAE0595.
- An (*) by a part number (Code) indicates: Color Code Required.

Concerto™ Vibes- In-Ground and Surface Mount

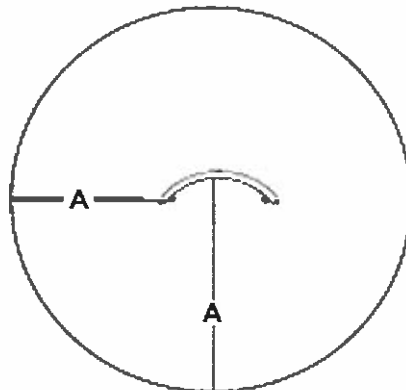
1600011

Concerto™ Vibes - In-Ground and Surface Mount

A. Installation Preparation

Recommended Crew:Two (2) adults
 Installation Time:2 man-hours (In-ground)
 Installation Time:1 man-hour (Surface mount)
 Concrete Required:0.26 cubic yard (0,20 cubic meters)
 User Group Age (years):ASTM: 2-12, EN: 2-14

Note: To meet CSA Compliance, mallets must be removed.



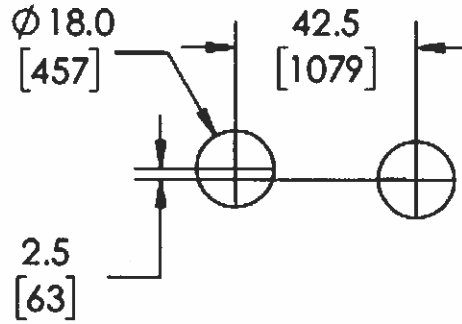
Equipment Use Zone
 A - (ASTM): 72 in. (1830 mm)
 (CSA): 1800 mm
 (EN): 1500 mm

THIS SPACE INTENTIONALLY LEFT BLANK

Concerto™ Vibes - In-Ground and Surface Mount

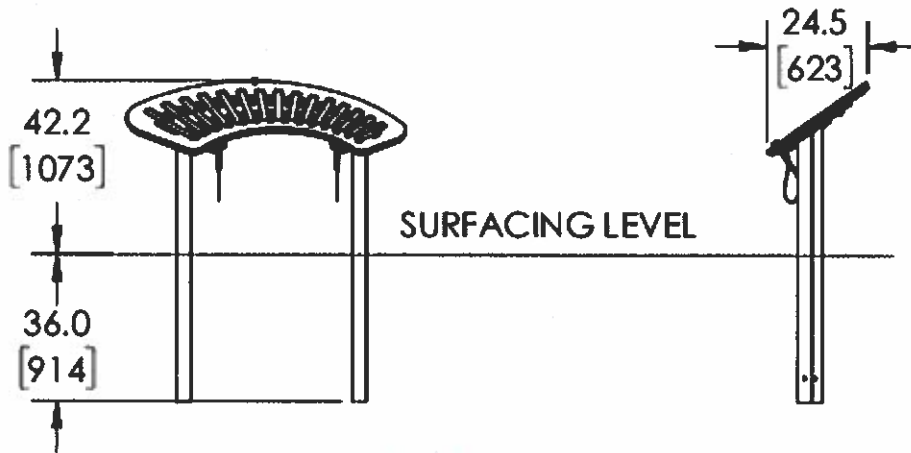
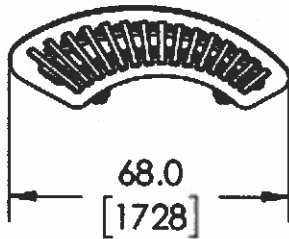
B. Footing Details - In-Ground

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



Footing Diagram

Top View



Elevation Views
200203438

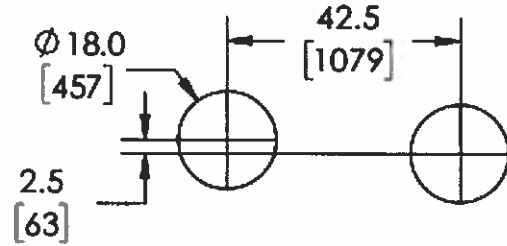
Concerto™ Vibes- In-Ground and Surface Mount

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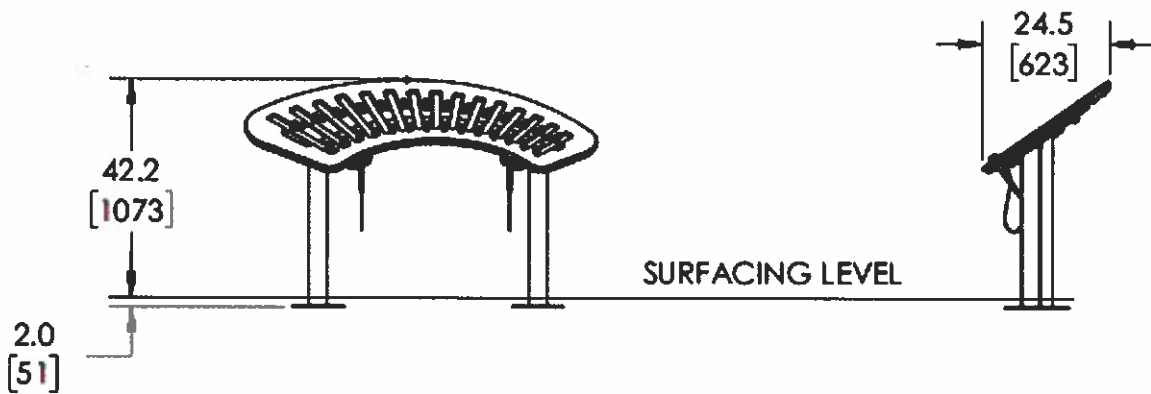
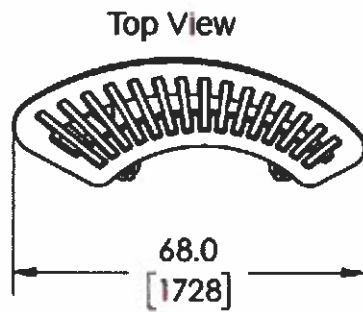
Concerto™ Vibes - In-Ground and Surface Mount

C. Footing Details - Surface Mount

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



Footing Diagram

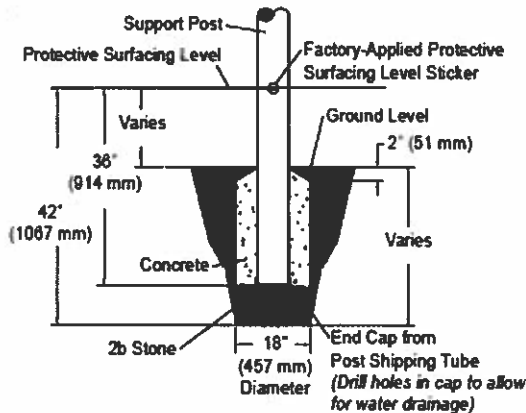


Elevation Views
200203438

Concerto™ Vibes - In-Ground and Surface Mount

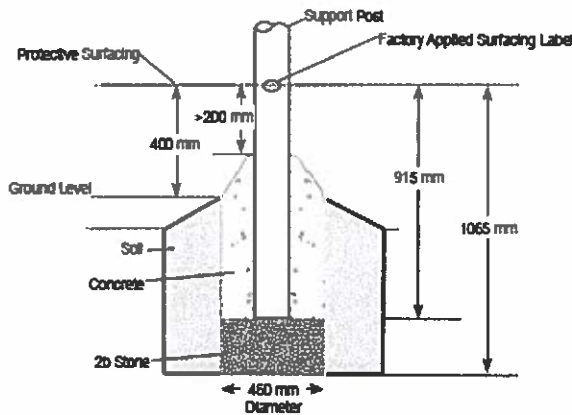
STEP 1 INSTALLATION INSTRUCTIONS

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



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).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If 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 this 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.

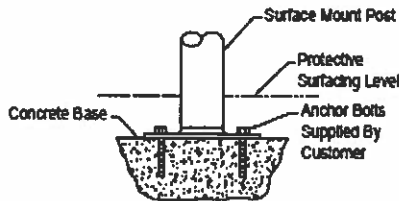
- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Concerto™ Vibes - In-Ground and Surface Mount

STEP 1 INSTALLATION INSTRUCTIONS cont.

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

- **Concrete Pier:** A pier type surface mount installation is defined as a footing hole that has been excavated and poured with concrete. Concrete should be flush to the top surface of excavated hole. Equipment would then be secured to this concrete footing that has been properly cured.
- **Concrete Slab:** Existing concrete slab type installation is defined as equipment being secured to an existing concrete pad or slab. As an example, this pad could be in the form of an existing concrete parking lot.

FOOTING NOTES: PIER TYPE SURFACE MOUNT

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If 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.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

IMPORTANT NOTE: Surface mount hardware is not supplied. The customer is responsible for the concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Concerto™ Vibes - In-Ground and Surface Mount

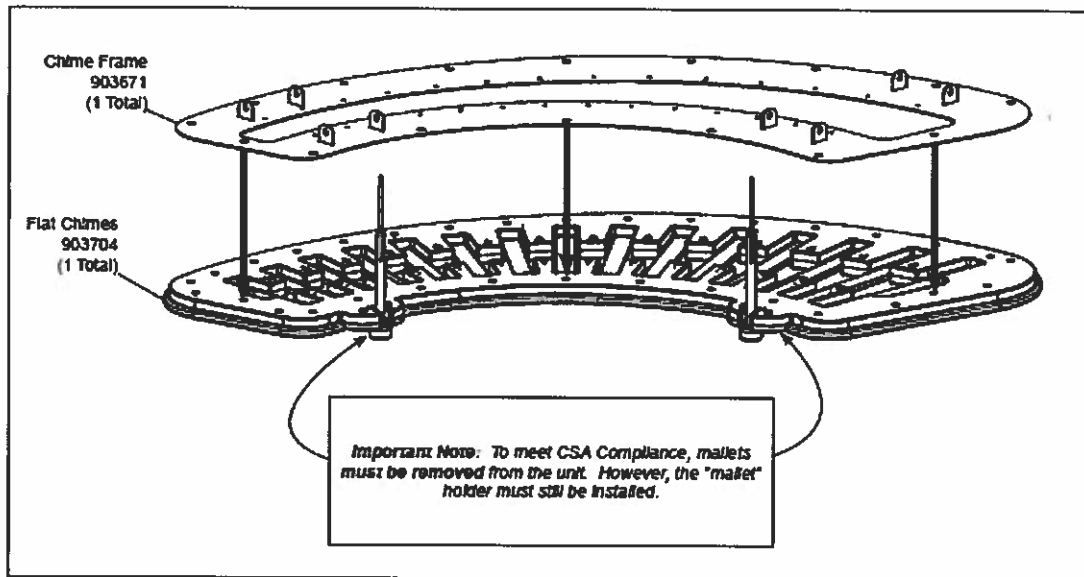
STEP 1 INSTALLATION INSTRUCTIONS cont.

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

Installation Instructions:

1. Prepare footings as shown on pages 4 and 5 of this document.
2. Assemble equipment as shown.
3. Place equipment in, or on, its footings and block and brace.
4. Plumb and level equipment and tighten all hardware.

Place upside-down on ground for assembly.

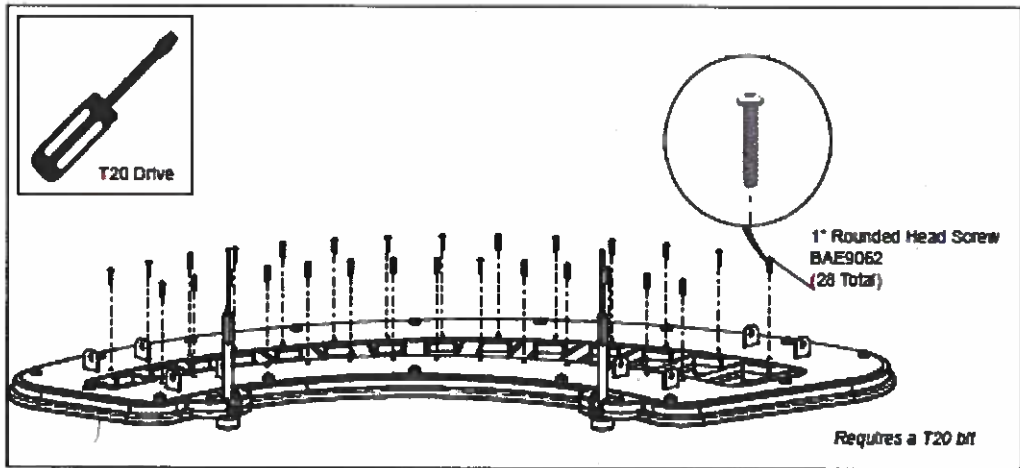
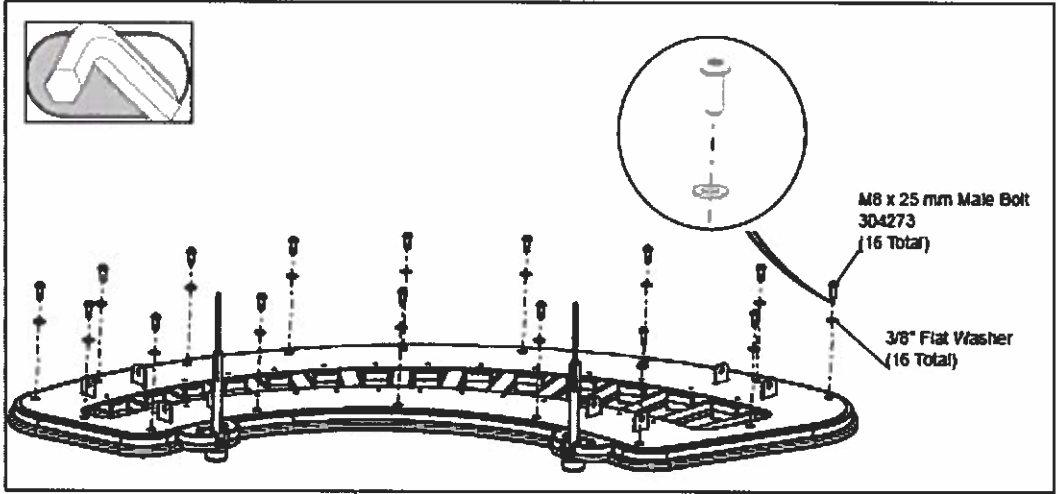


Concerto™ Vibes- In-Ground and Surface Mount

1600011

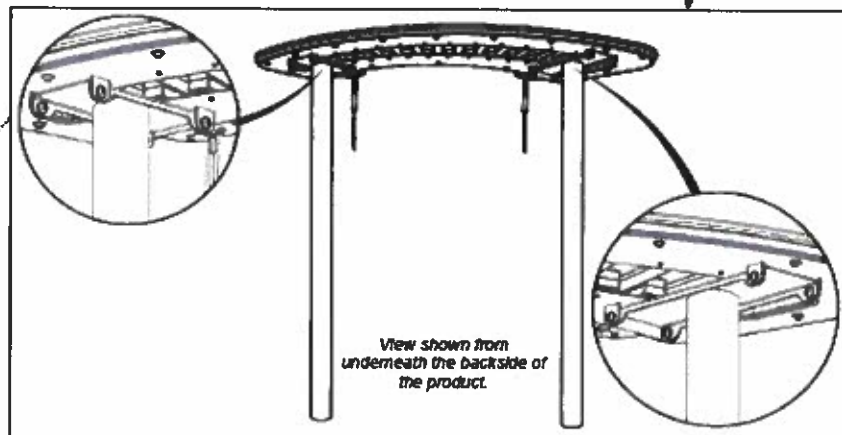
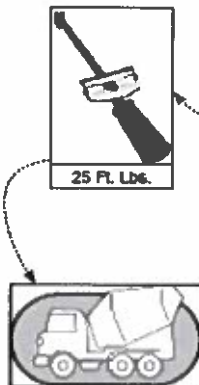
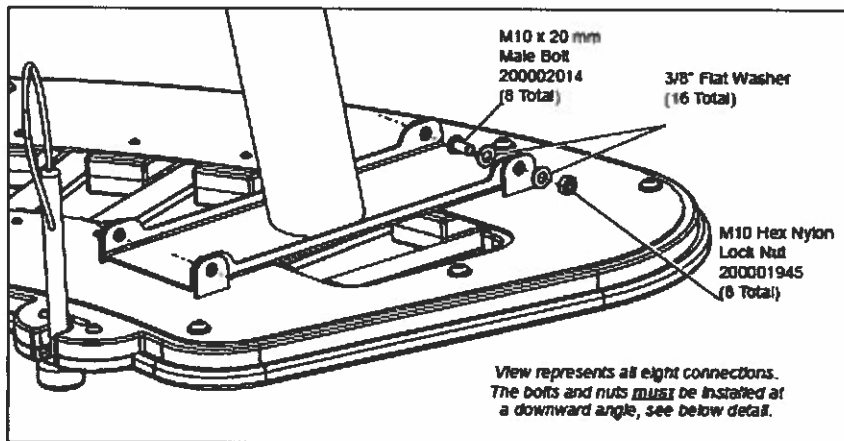
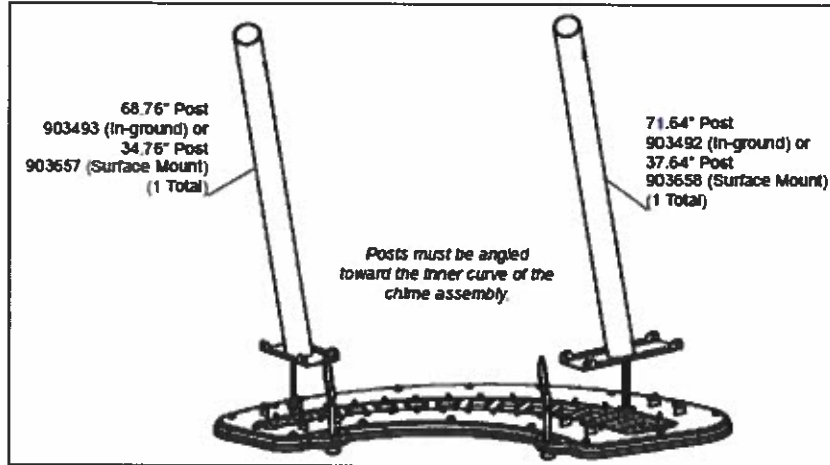
Concerto™ Vibes - In-Ground and Surface Mount

STEP 1 INSTALLATION INSTRUCTIONS cont.



Concerto™ Vibes - In-Ground and Surface Mount

STEP 1 INSTALLATION INSTRUCTIONS cont.



Concerto™ Vibes- In-Ground and Surface Mount

1600011

Concerto™ Vibes - In-Ground and Surface Mount

STEP 2 EQUIPMENT MAINTENANCE

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Customer Service for a replacement part.

Concerto™ Vibes - In-Ground and Surface Mount

STEP 3 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.

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
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			

Inspector: Name (Please Print) _____ Signature: _____ Date: ___/___/___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___/___/___

Concerto™ Vibes- In-Ground and Surface Mount

1600011

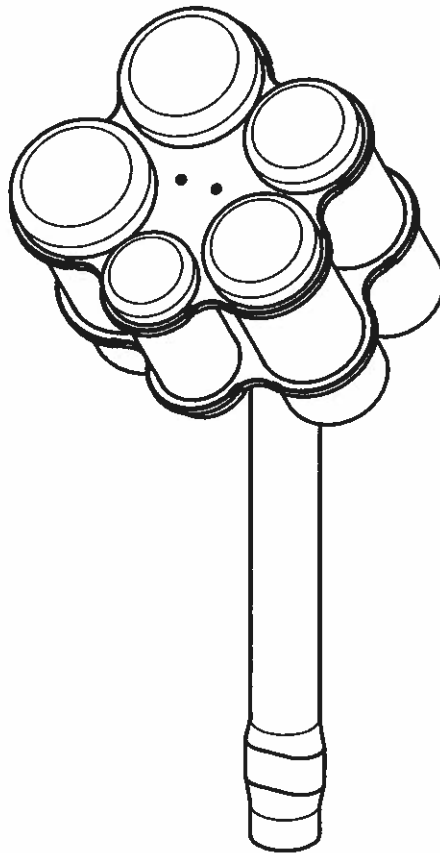
concerto™

Installation Instructions

Models ZZXX0665, ZZXX0665S,
450-8, 450-8BD and 200203444

Concerto™ Five Congas

In-ground and Surface Mount Models



Assembly View (representative model)

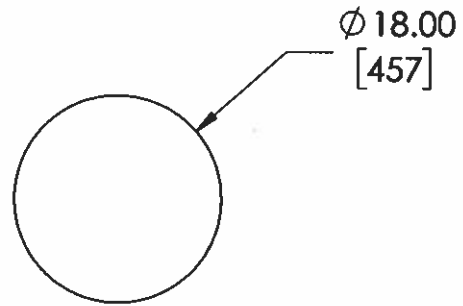
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour (in-ground)
Installation Time: 0.5 man-hours (surface mount)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Installation Instructions

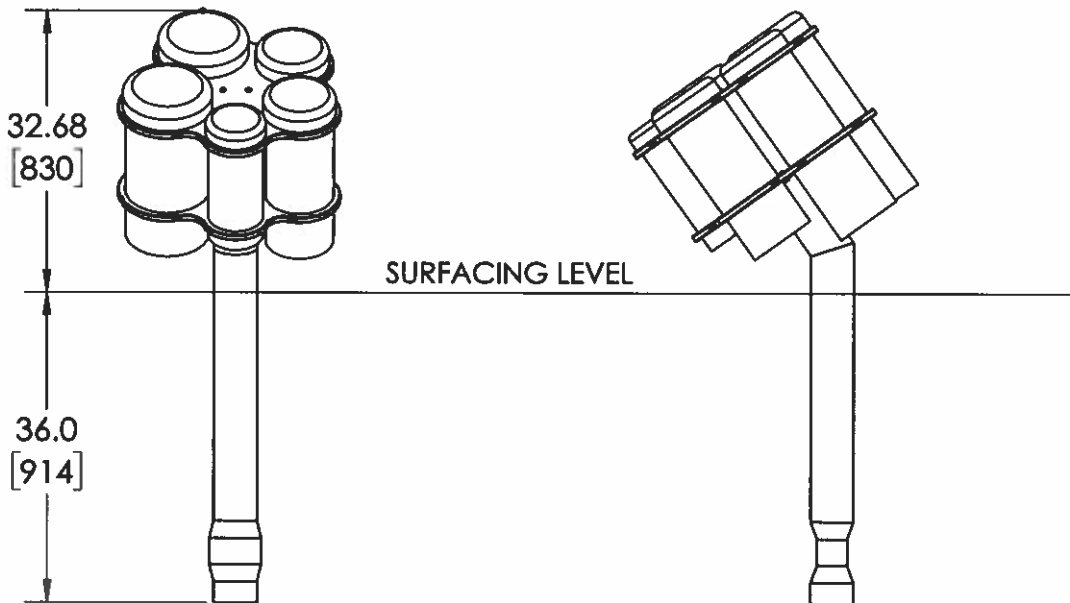
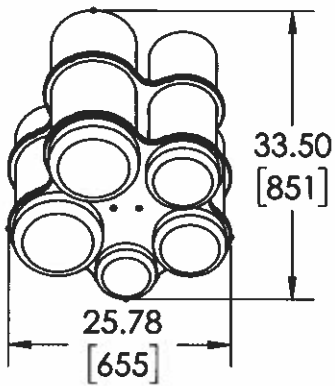
KEY

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



Footring Diagram

Top View

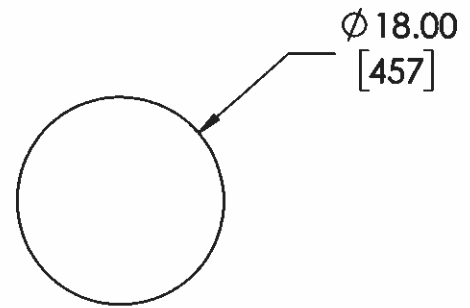


Elevation Views

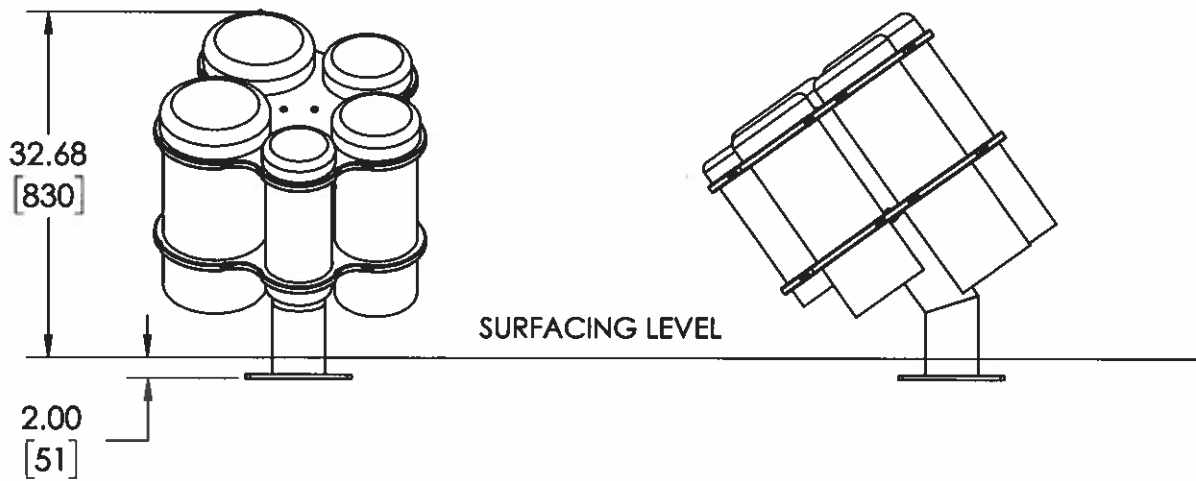
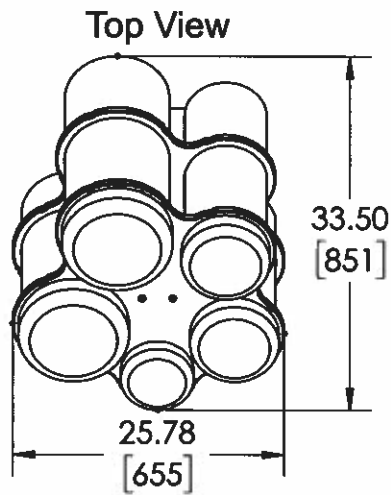
ZZXX0665, 450-8 and 200203444

Installation Instructions

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



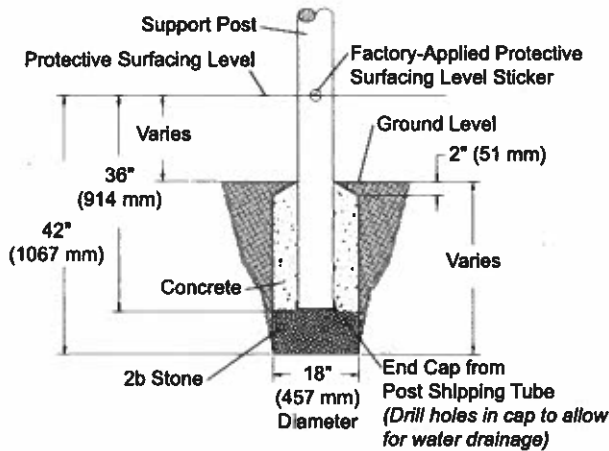
Footing Diagram



Elevation Views
ZZXX0665S, 450-8BD and 200203444

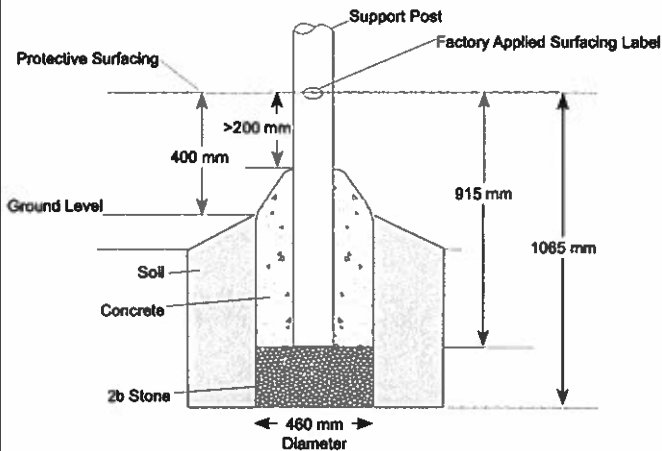
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



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).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If 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 this 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.

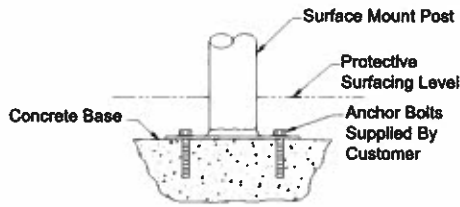
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- 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

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

- **Concrete Pier:** A pier type surface mount installation is defined as a footing hole that has been excavated and poured with concrete. Concrete should be flush to the top surface of excavated hole. Equipment would then be secured to this concrete footing that has been properly cured.
- **Concrete Slab:** Existing concrete slab type installation is defined as equipment being secured to an existing concrete pad or slab. As an example, this pad could be in the form of an existing concrete parking lot.

FOOTING NOTES: PIER TYPE SURFACE MOUNT









- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If 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.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

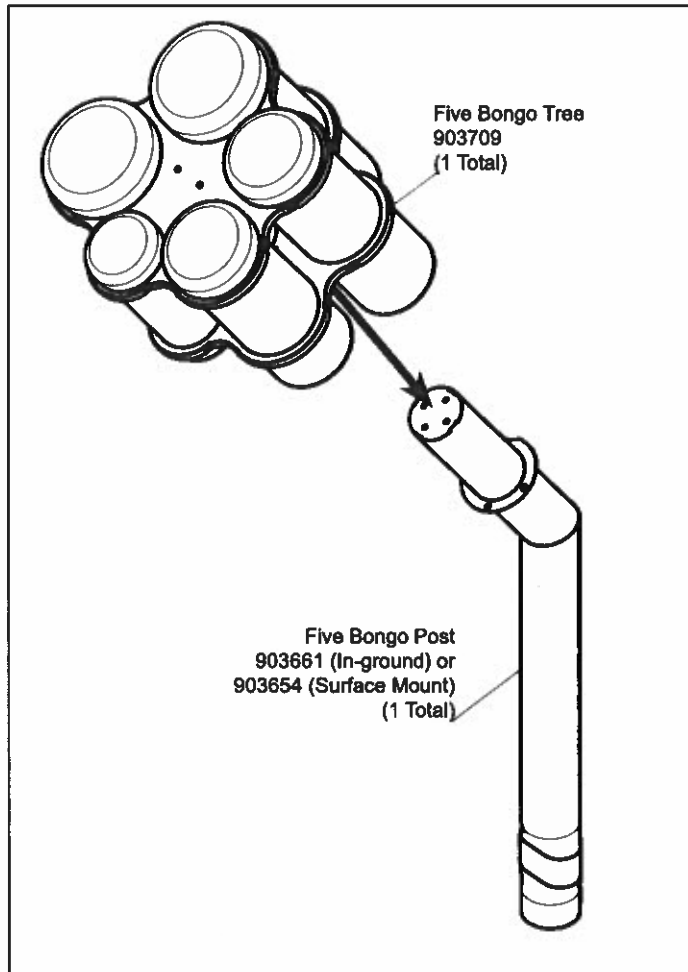
IMPORTANT NOTE: Surface mount hardware is not supplied. The customer is responsible for the concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

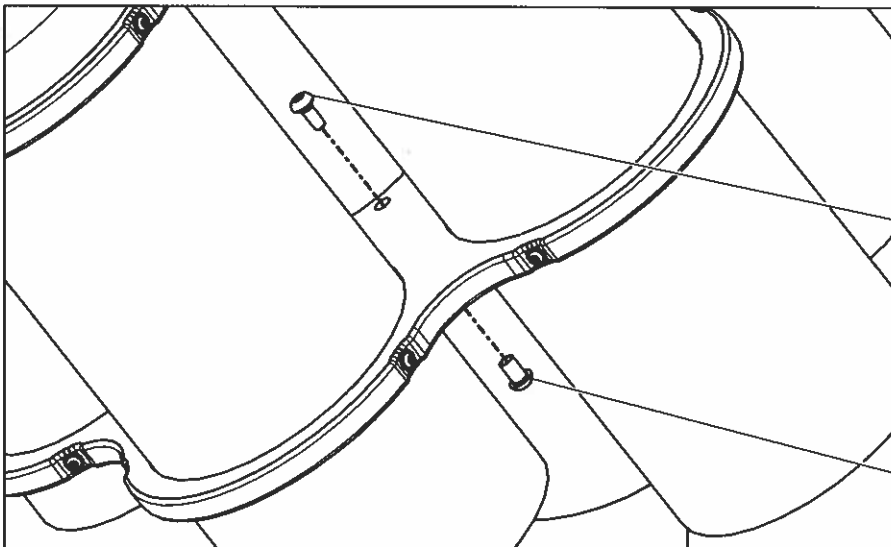
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions:

1. Prepare footings as shown on pages 4 and 5 of this document.
2. Assemble equipment as shown.
3. Place equipment in, or on, its footings and block and brace.
4. Plumb and level equipment and tighten all hardware.

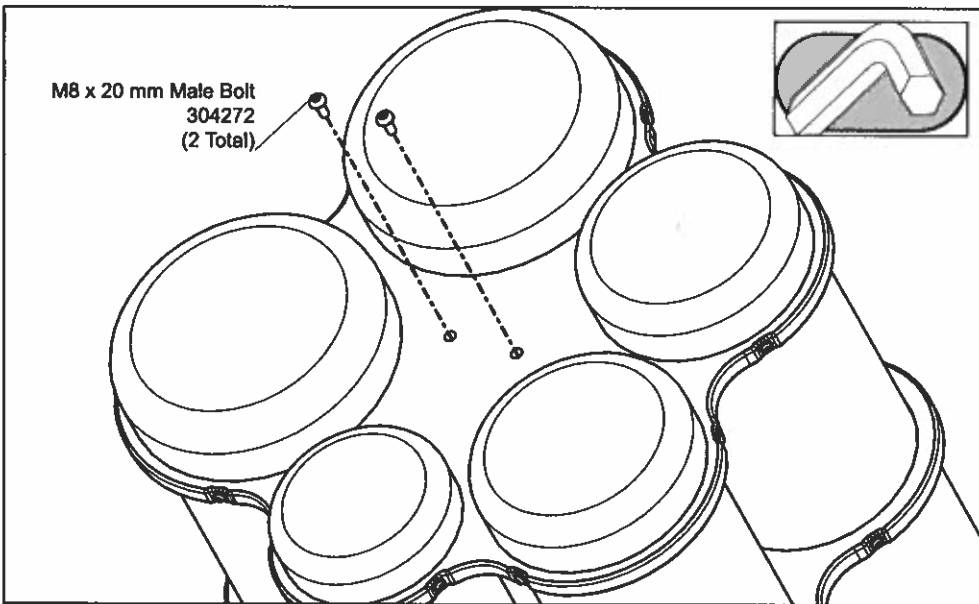


Installation Instructions



M8 x 20 mm Male Bolt
304272
(3 Total)

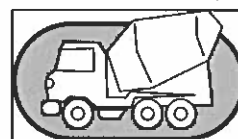
M8 x 16 mm Female Bolt
110424
(3 Total)



M8 x 20 mm Male Bolt
304272
(2 Total)



25 Ft. Lbs.



Bill of Materials

ZZXX0665, 450-8 AND 200203444 - CONCERTO FIVE CONGAS IN-GROUND

PART NO.	DESCRIPTION	QTY.
903661	POST - 5 BONGO	1
903709	5 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2

ZZXX0665S, 450-8BD AND 200203444 - CONCERTO FIVE CONGAS SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903654	POST - 5 BONGO SM	1
903709	5 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2

*Some models may include part number 200001167 in place of the BAE0922.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

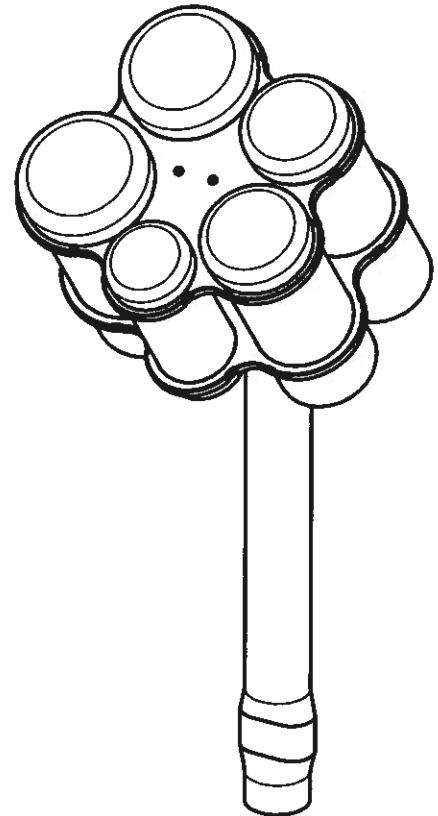
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Customer Service for a replacement part.

Equipment Maintenance Models ZZXX0665, ZZXX0665S, 450-8, 450-8BD and 200203444 Concerto Five Congas In-ground and Surface Mount



Assembly View (*representative model*)

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.

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspector: Name (Please Print) _____ Signature: _____ Date: ___/___/___

MAINTENANCE SCHEDULE			
Item in Question	Description of Problem	Corrective Action	Date

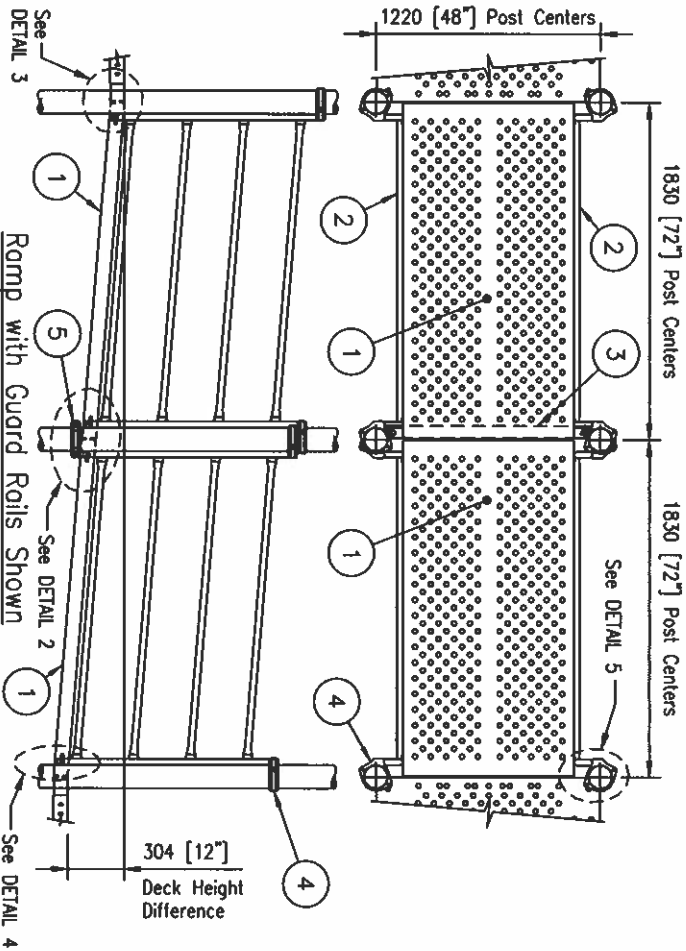
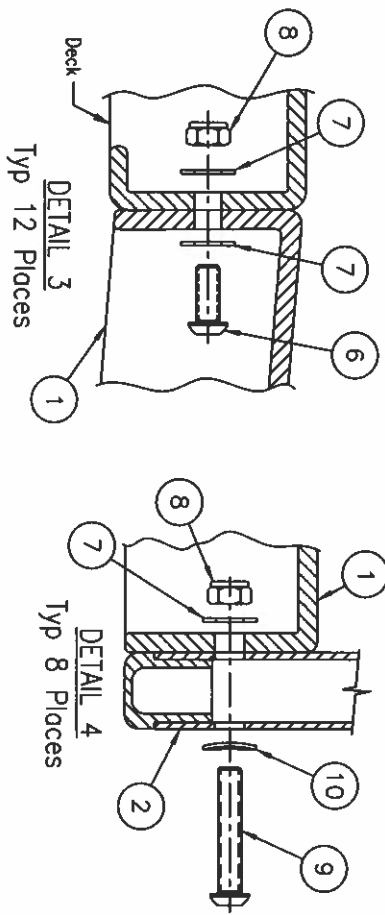
Repairer: Name (Please Print) _____ Signature: _____ Date: ___/___/___



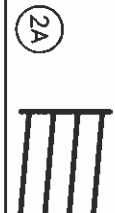
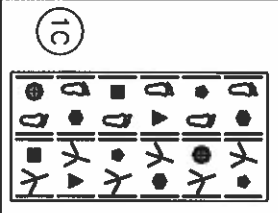
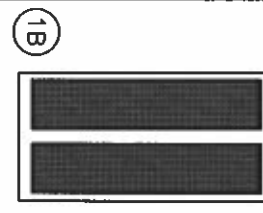
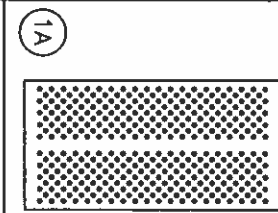
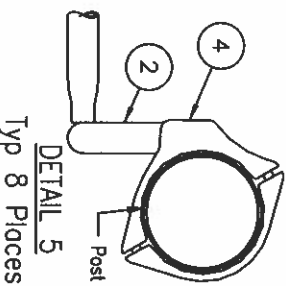
3660 [12'] RAMP

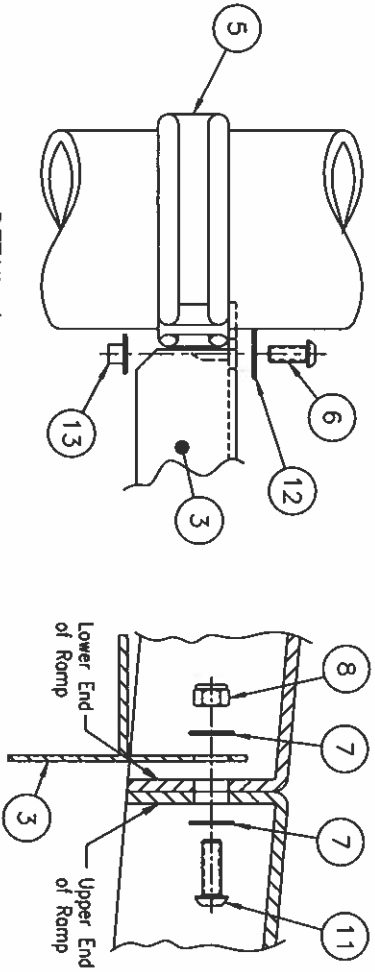
200107423
KB100017E-S1
Sheet 1 of 2

AUTHORIZED BY: *[Signature]* 19APR12



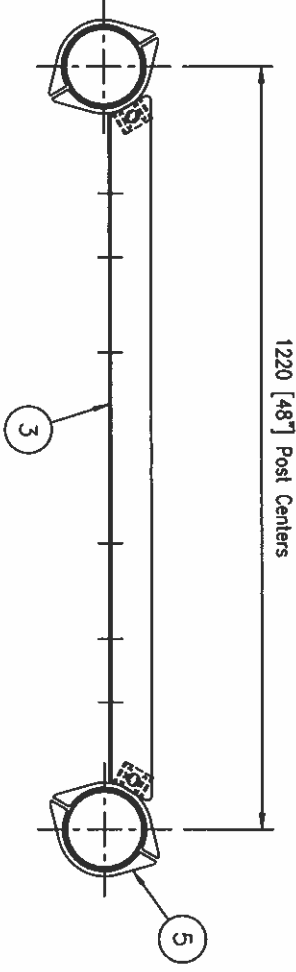
Item Code	Description	Qty.
1A	200004933 RAMP 1830 MM FOLD DOWN (TDV) F/KB	2
1B	200140758 RAMP 1830MM SMALL HOLE (TDV)	2
1C	200161792 RAMP W/TRKCS 1830 MM (TDV) F/KB	2
2A	GUARD RAIL F/KB 1830 MM RAMP ASSEMBLY	2
2B	SAFETY RAIL F/KB 1830 MM RAMP ASSEMBLY	1
3	200002894 BRACKET MOUNT BRN F/KB DECK-10-POST HOODED RAIL CLAMP	8
4	DECK CLAMP	2
5	200002018 SCREW MACH BUTTONEHEAD M10 X 1.50 X 25MM	2
6	200002100 WASHER FLAT M11 23.0 X 1.50 X 2 MM THK	2
13	200001966 T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2
HDWR BAG KB DECK-TO-POST MT BRKT 200007697		
6	200002018 SCREW MACH BUTTONEHEAD M10 X 1.50 X 25MM	6
7	200002079 WASHER FLAT M11 23 X 1.2 X 1.6	12
8	200001945 NUT LOCK HEX NTCGN INSERTED M10 X 1.5	6
HDWR BAG F/KB 12' RAMP 200007698		
Item Code	Description	Qty.
6	200002018 SCREW MACH BUTTONEHEAD M10 X 1.50 X 25MM	12
7	200002079 WASHER FLAT M11 23 X 1.2 X 1.6	44
8	200001945 NUT LOCK HEX NTCGN INSERTED M10 X 1.5	26
9	200002150 SCREW MACH BUTTONEHEAD M10 X 1.5 X 95 MM	8
10	200009483 WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	8
11	200002030 SCREW MACH BUTTONEHEAD M10 X 1.50 X 30MM	6



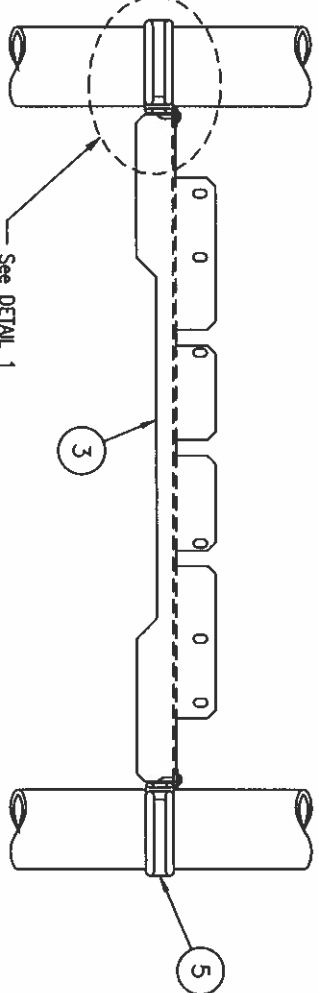


DETAIL 1
Typ 2 Places

DETAIL 2
Typ 6 Places



1220 [48] Post Centers



See DETAIL 1

Deck to Post Mounting Bracket

Application

- This is a platform event and can be installed at various heights. Refer to your layout drawing.
- Ramp is designed for a 304mm [12"] rise only.

Installation Instructions

1. Prepare footings.
2. Install posts and loosely attach any adjoining structures.
3. Loosely attach deck clamps to posts (refer to front of manual for clamp installation detail).
4. Attach mounting bracket to deck clamps (refer to Detail 1). The hardware used in this view will be supplied with the deck clamp.
5. Position at the proper height, tighten all hardware and install clamp drive pins.
6. Lower the deck or ramp end(s) onto the mounting bracket and install hardware (refer to Detail 2).
7. Assemble ramp to existing decks as shown in DETAIL 3.
8. Loosely assemble guard or safety rails to the ramp (refer to DETAIL 4).
9. Slide hooded rail clamps onto rail stubs and assemble to posts (refer to DETAIL 5 and front of manual for clamp installation details).
10. Make sure rails are plumb.
11. Tighten all hardware and install clamp drive pins.
12. Complete footings and install resilient surfacing.

DECK TO POST MOUNTING BRACKET

APPROVED BY: *[Signature]*
DAVID

BRACKET DECK TO POST KB 200006959

Item	Code	Description	Qty.
1	200002884	BRACKET MOUNT BRN F/KB DECK-TO-POST	1
2	-	DECK CLAMP	2
4	200002100	WASHER FLAT M11 3/200 X 1.310 X 2 MM S.S.	2

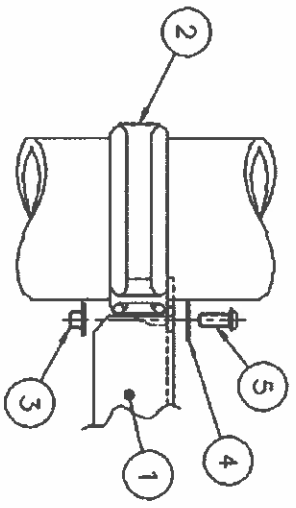
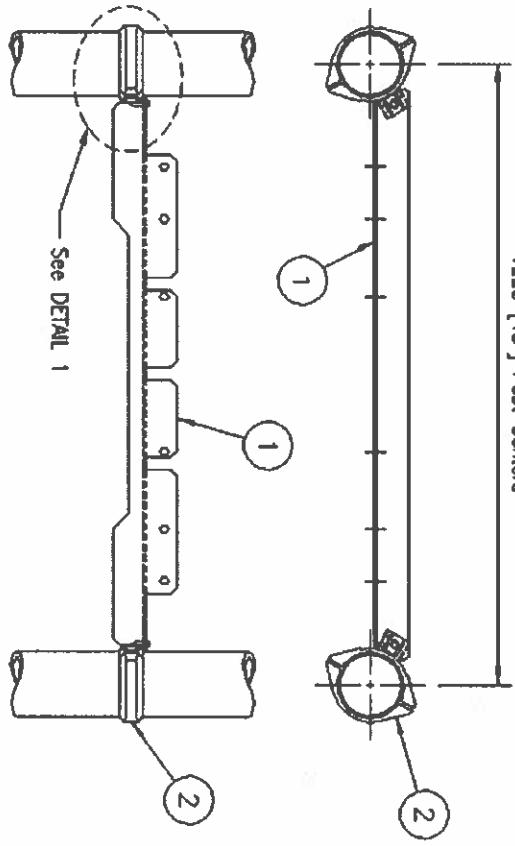
HDWR BAG KB DECK-TO-POST MT BRKT 200007697

Item	Code	Description	Qty.
6	200002018	SCREW WASH BUTT-HEAD M10 X 1.50 X 25MM	6
7	200002079	WASHER FLAT M11 21 X 12 X 1.6	12
8	200001945	NUT LOCK HEX INCLIN INSERTED M10 X 1.5	6

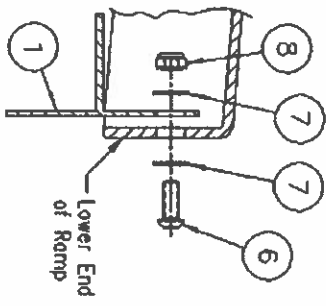
Application
- Designed to install Ramps, multiple Ramps end to end, and to access the Spiral Slide from lower deck heights

Installation Instructions

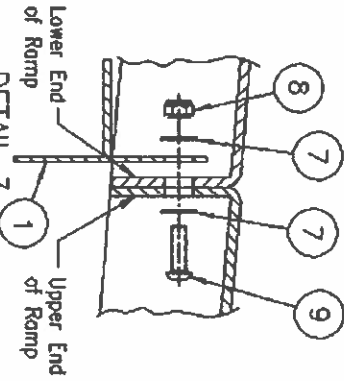
1. Prepare footings.
2. Install posts and loosely attach any adjoining structures.
3. Loosely attach deck clamps to posts (Refer to front of manual for clamp installation detail).
4. Attach mounting bracket to deck clamps (Refer to Detail 1). The hardware used in this view will be supplied with the deck clamp.
5. Position at the proper height, tighten all hardware and install clamp drive pins.
6. Lower the deck or ramp end(s) onto the mounting bracket and install hardware (Refer to Details 2, 3, and 4).
7. Complete footings and install resilient surfacing.



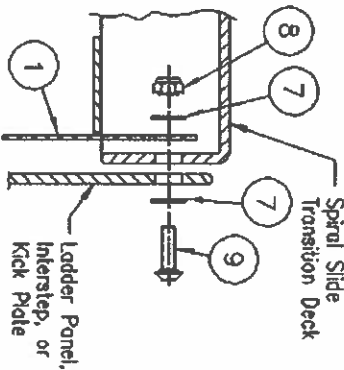
DETAIL 1
Typ 2 Places



DETAIL 2
(Single Ramp)
Typ 6 Places



DETAIL 3
(Ramp to Ramp)
Typ 6 Places



DETAIL 4
(Spiral Slide)
Typ 4 Places



KB ROCK N SHIP

KB900047D

Sheet 1 of 13

KB ROCK N SHIP 200202581

Item	Code	Description	Qty.
1	200196042	MECHANISM ASSY F/ROCKNSHIP	1
2A	90262984K	TUBE INT. F/GR C-SPRING ENG	4
2B	90262784K	TUBE INT. F/ROCK N SHIP S&S/S	4
2C	902794P	POST W/HANDLE W/CP F/ROCK N SHIP	4
3	902631P	ROCKNSHIP FRM STEP SIDE	1
4	902632P	ROCKNSHIP FRM OUTSIDE	1
5	909171P	ROCKNSHIP FRM BRACKET	2
6	909178P	MD BRACE F/ROCKNSHIP	1
7	200196430	ASSY BRACKET SKIRT F/ROCKNSHIP BLU	4
8	200194448	SKIRT A F/ROCKNSHIP	1
9	200194650	SKIRT B F/ROCKNSHIP	1
10	200195554	SKIRT C F/ROCKNSHIP	2
11	909151P	SUPPORT TRANSR F/ROCKNSHIP	2
12	910600P	DECK A SKIN F/ROCKNSHIP	1
13	910699P	DECK B SKIN F/ROCKNSHIP	1
14	910698P	DECK C SKIN F/ROCKNSHIP	1
15	910697P	DECK TRANSR F/ROCKNSHIP	1
16	905304P	KB SHIP BOW LFT	2
17	905305P	KB SHIP BOW RGT	2
18	909482P	KB SHIP HULL	1
19	909380P	KB DECK CLAMP	2
20	-	KB SHIP CAP COVER	12
21	-	KB SHIP CAP BASE	12
22	200007978	ROD THREADED F/ROCK ROE M10 X 125MM	9

HDWR PKG ROCK N SHIP L1/2 HW190586-1 (2 REOD)

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	59
24	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	23
25	200000797	HAMMER DRIVE PIN 4.7 X 11.1MM	2
26	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
27	200002018	SCREW WASH BUTTONEHD M10 X 1.50 X 29MM	17
28	117007	WASHER 7/16 FLAT 18-8 SS	2
29	300002750	SCREW T-27 TORX ROUND WASHER HD	6

HDWR PKG ROCK N SHIP L2/2 HW190586-2 (2 REOD)

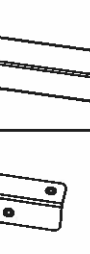
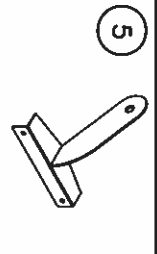
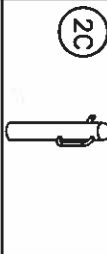
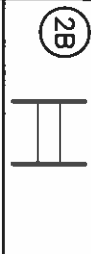
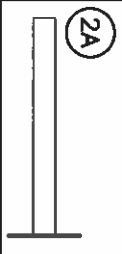
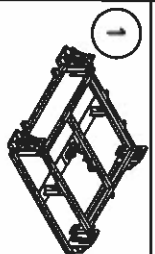
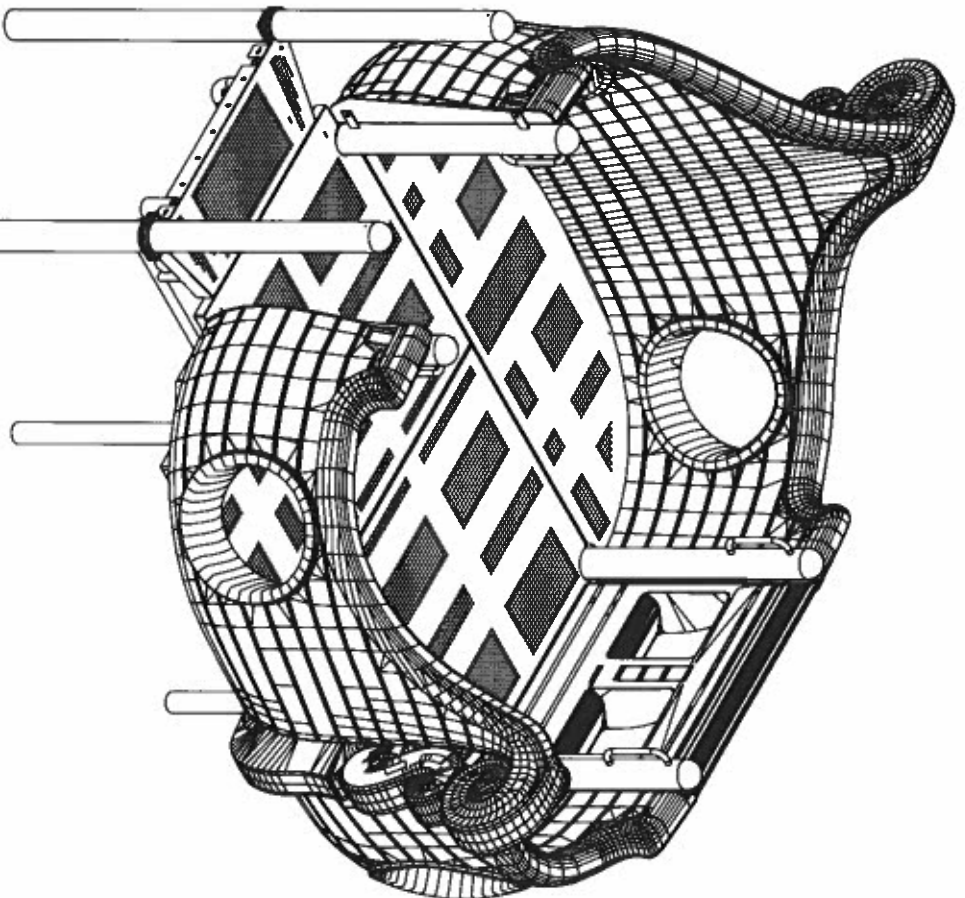
Item	Code	Description	Qty.
29	200002096	WASHER FLAT M10 34 OD X 11 D X 3MM SS	15
30	200002030	SCREW WASH BUTTONEHD M10 X 1.50 X 30MM	8
31	200008463	WASHER BOWED M11 23.5 X 11.7 X 1.57MM	2
32	200002014	SCREW WASH BUTTONEHD M10 X 1.50 X 20MM	4
33	200001954	BARREL NUT M10 1.50 (12.70 DIA X 32MM)	6
34	200001659	CAP SCREW HEX HEAD M10 X 1.50 X 75MM FULL THRD	1
35	200002138	BOLT M8 X 1.25 W/LE 42.5MM	4
36	200002133	BOLT M8 X 1.25 W/LE 27.5MM	2
37	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	6
38	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	6

HW7730-1 (1 REOD)

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
35	200002138	BOLT M8 X 1.25 W/LE 42.5MM	2
36	200002133	BOLT M8 X 1.25 W/LE 27.5MM	4
38	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4

HW7733-1 (2 REOD)

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
33	200001954	BARREL NUT M10 1.50 (12.70 DIA X 32MM)	6
36	200002133	BOLT M8 X 1.25 W/LE 27.5MM	4
38	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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Harold Gabriel



KB ROCK N SHIP

KB900047D

Sheet 2 of 13

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Maintenance
All fasteners should be inspected and re-tightened if necessary 1 week after installation.

This unit contains sealed bearings which require minimal maintenance. Ongoing maintenance intervals will vary according to the amount of use the equipment receives.

Recommended inspection interval every 3 months.

Remove skirt to grease internal parts (8 points).

Grease lubrication points as determined by use with automotive grease.

Installation Instructions

FOR INGROUND INSTALLATION:

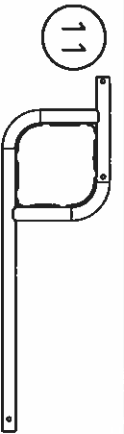
1. Prepare footings. See sheet 13 for locations. Bolt secure foot (item 2A) to mechanism (item 1) as shown on sheet 3 (4 places). Place in footing holes.

FOR 12" (305mm) GROUND COVER SURFACE MOUNT INSTALLATION:

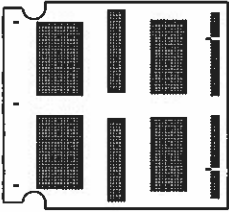
1. Secure foot (item 2B) to Mechanism (item 1) as shown on sheet 3 in (4 places). Secure to concrete pad using anchor bolts.

FOR 1.5" (40mm) GROUND COVER SURFACE MOUNT INSTALLATION:

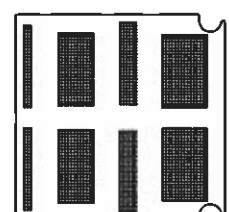
1. Secure mechanism (item 1) to concrete pad using anchor wedges.
2. Attach Frame Step Side (item 3) to top of mechanism (item 1); attach posts (item 2C) to (item 3) as shown on sheet 4.
3. Attach Frame Outside (item 4) to top of mechanism (item 1); attach posts (item 2C) to (item 4) as shown on sheet 4.
4. Install Frame to Frame Bracket (item 5) as shown on sheet 5 (2 places).
5. Install Mid Brace (item 6) as shown on sheet 5 (1 place).
6. Attach Transfer Deck Supports (item 11) to mechanism (item 1) as shown on sheet 6 (2 places).
7. Attach Deck Skin A (item 12) to Frame Step Side (item 3) as shown on sheet 7
8. Attach Deck Skin B (item 13) to Deck Skin A (item 12) as shown on sheet 8.
9. Attach Deck Skin C (item 14) to Deck Skin A (item 12) and Deck Skin B (item 13 as shown on sheet 9 (2 places).
10. Attach Skirt Brackets (items 7) to each end of Skirt A (items 8) 4 places total as shown on sheet 10.
11. Attach Skirt A (items 8) to Frames (items 3 & 4) on opposite sides of the Rock N Ship as shown on sheet 10.
12. Attach Skirt B (item 9) on the outside, to the Brackets (items 7) that were previously assembled to Skirt A. See sheet 10.
13. Attach Skirt C (item 10) on the step side, to the Brackets (items 7) that were previously assembled to Skirt A. See sheet 10.
14. Assemble the transfer deck (item 15) as shown on sheet 11.
15. Assemble ship bow (item 16, 17) and hull (item 18) panels as shown on sheet 12, working from the lowest hardware connection to the highest on each panel.



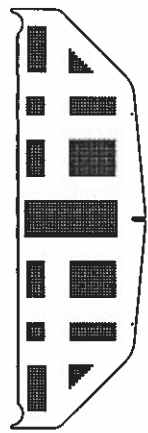
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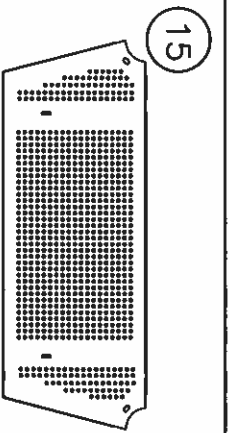
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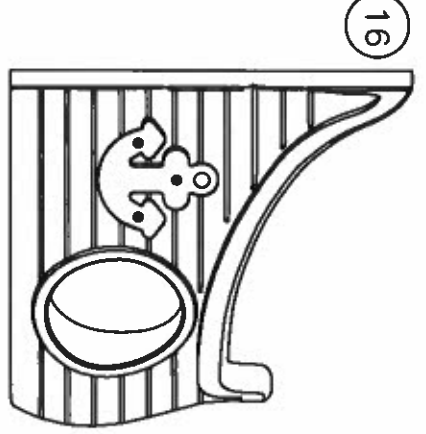
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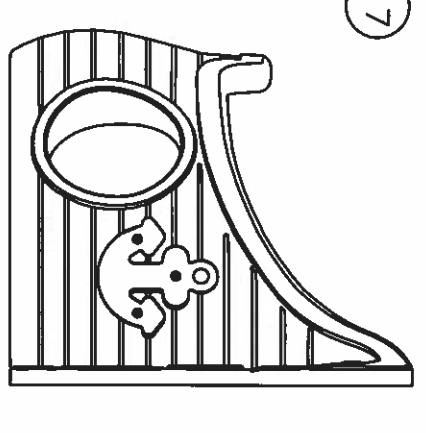
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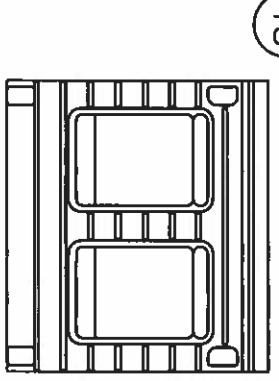
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16



17



18

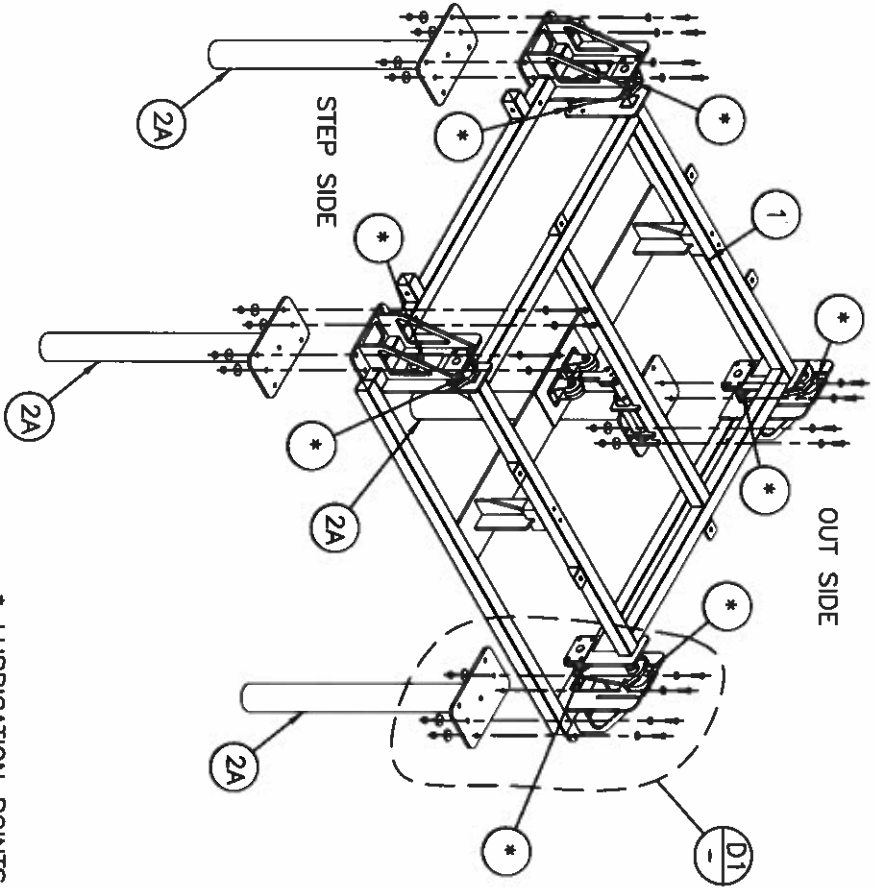


KB ROCK N SHIP

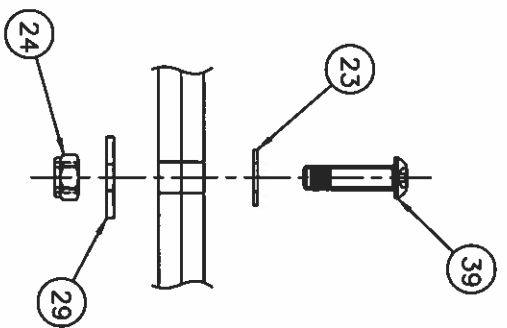
KB9000047D

Sheet 3 of 13
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Harold Gabriel

ORIENT AS SHOWN



* LUBRICATION POINTS



DETAIL $\frac{D1}{-}$
 1:SCALE
 TYP 16 PLCS

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

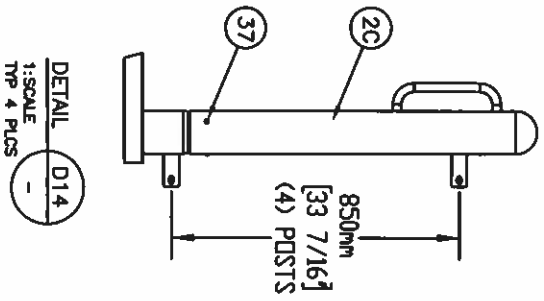
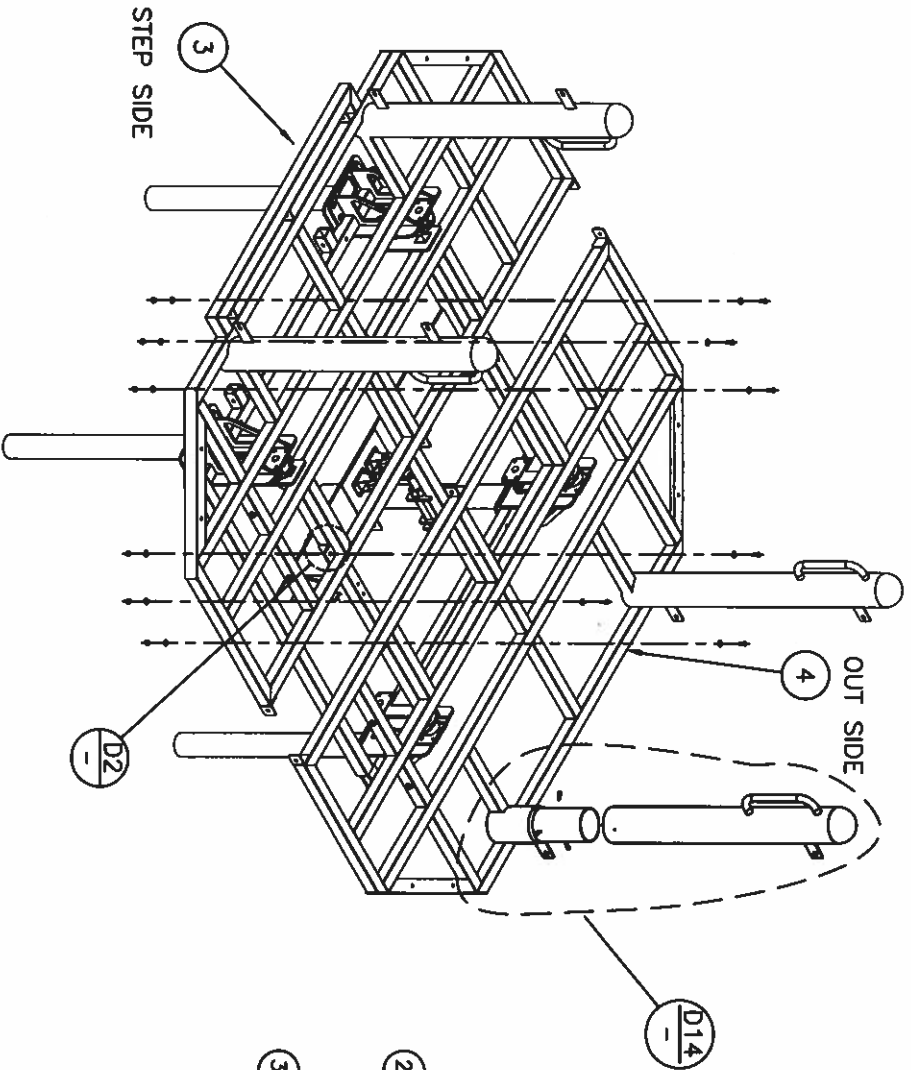


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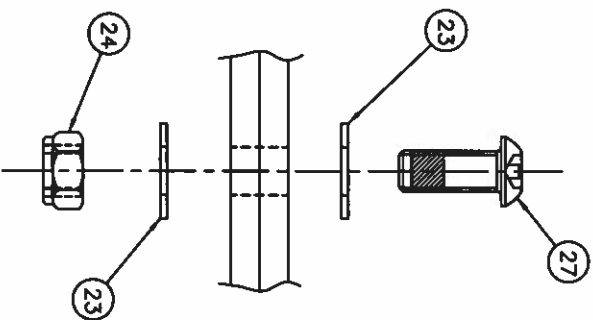
KB9000047D

Sheet 4 of 13

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DETAIL D14
1:SCALE
TYP 4 PLUS



DETAIL D2
1:SCALE
TYP 6 PLUS

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

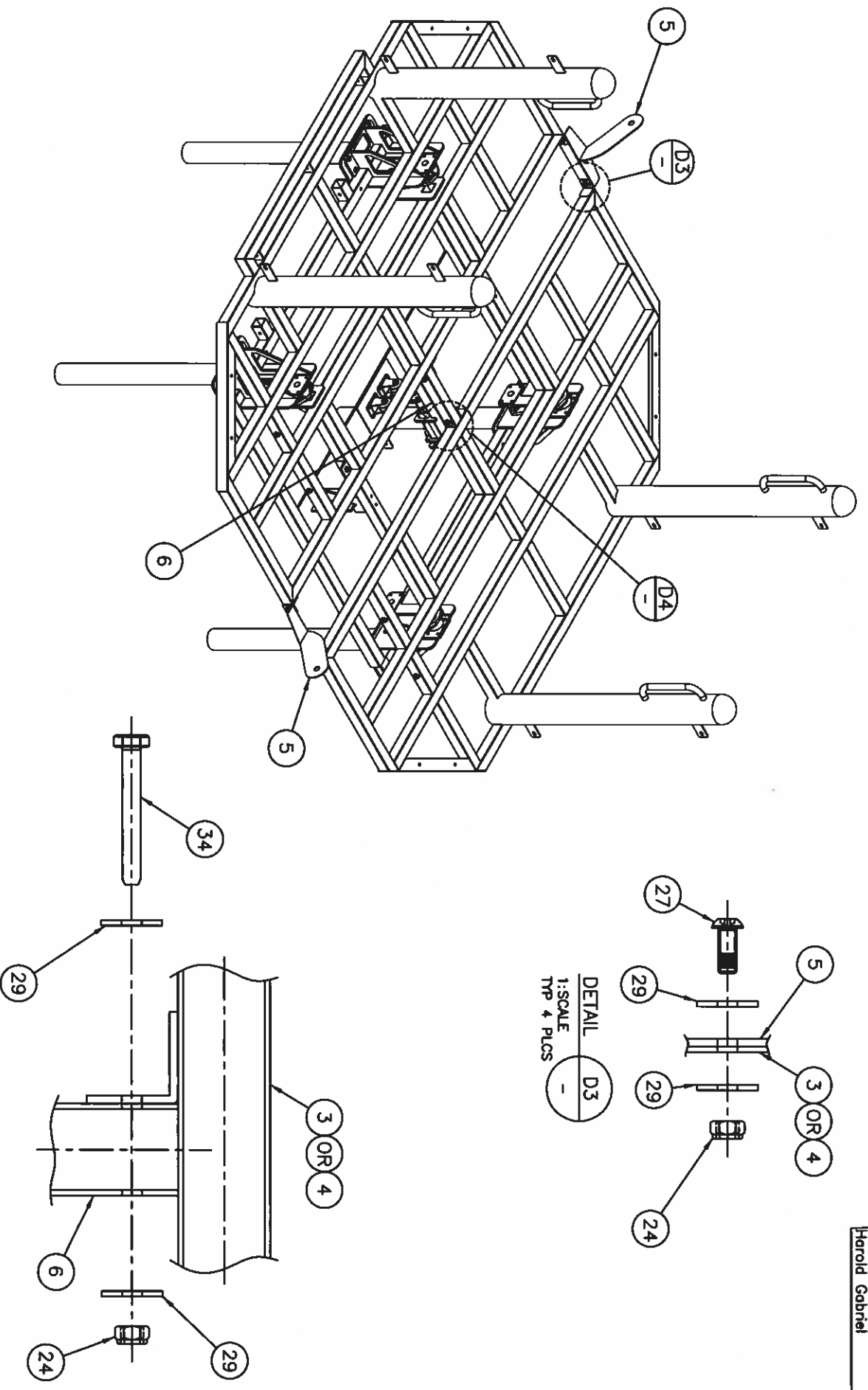


KB ROCK N SHIP

KB9000047D

Sheet 5 of 13

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DETAIL D3
1:SCALE
TYP 4 PLCS

DETAIL D4
1:SCALE
TYP 2 PLCS

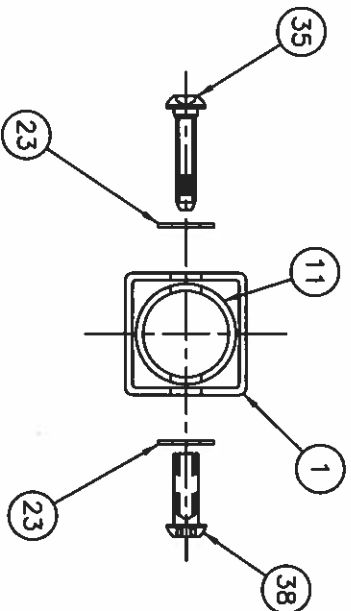
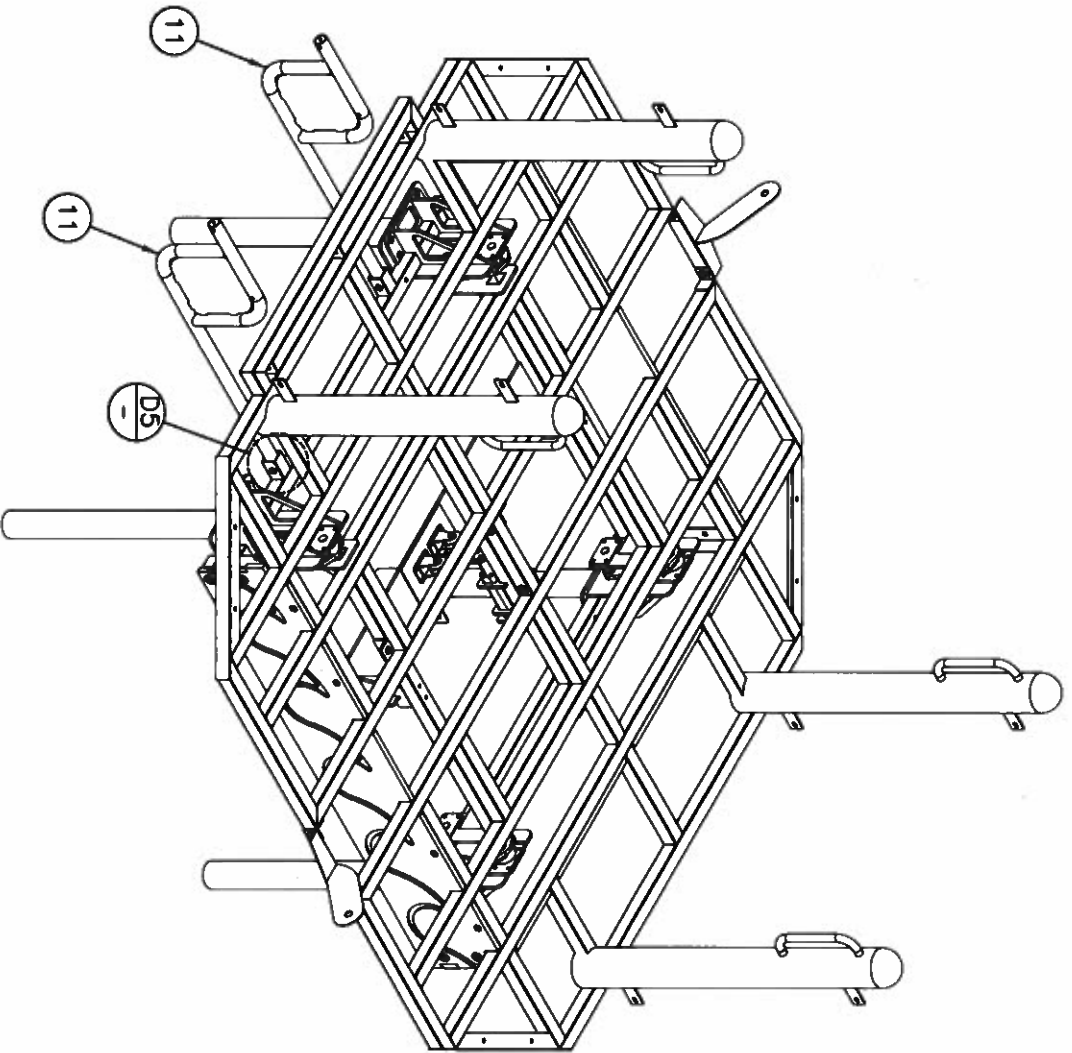
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



KB ROCK N SHIP

KB9000047D

Sheet 6 of 13
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DETAIL D5
1:SCALE
TYP 2 PLCS

ITEM 10 REMOVED FOR CLARITY

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

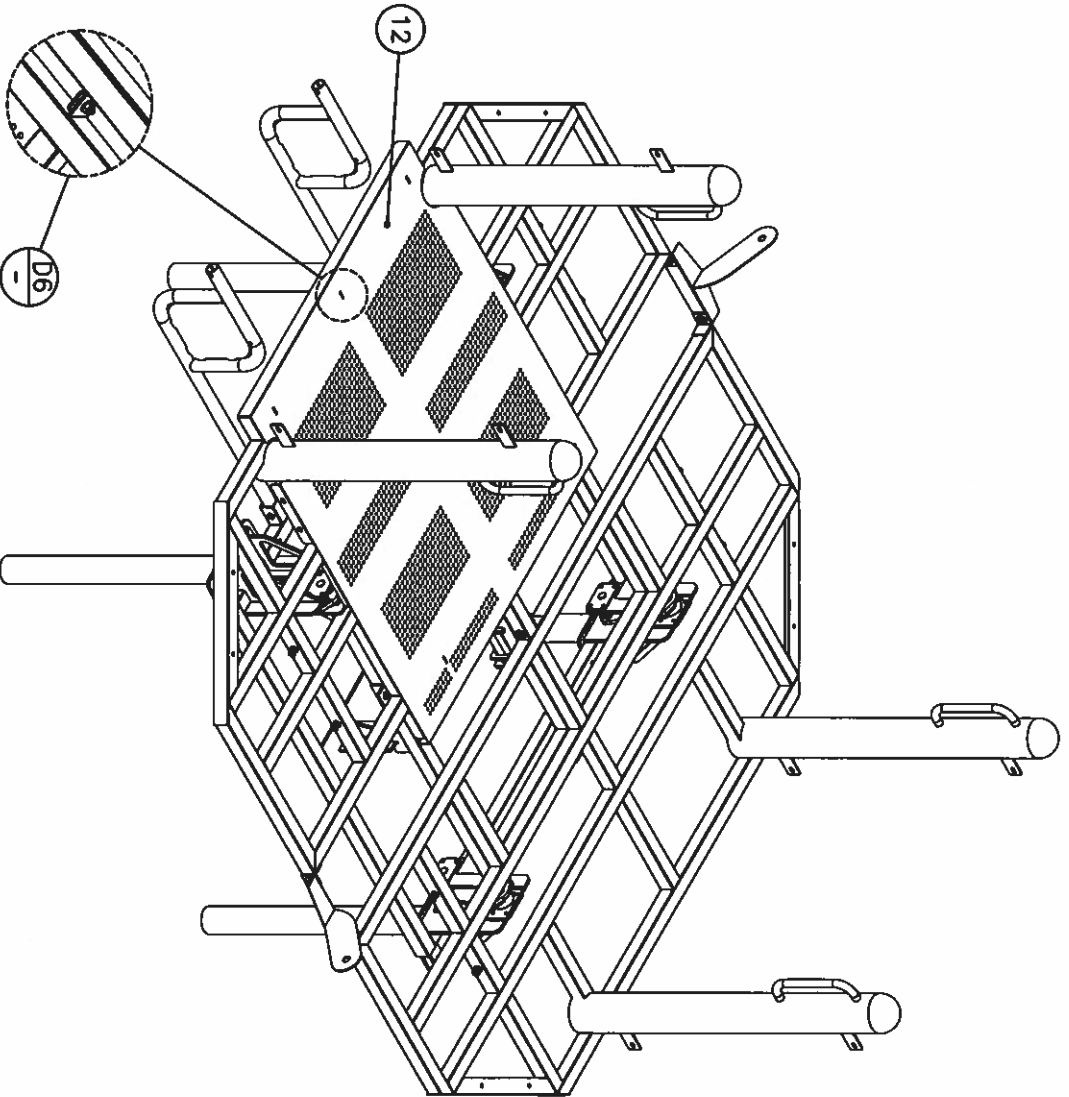


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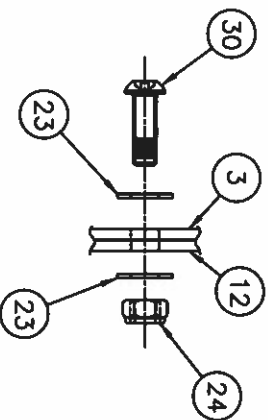
KB900047D

Sheet 7 of 13

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Harold Gabriel



NOT TO SCALE
SHOWN FROM BOTTOM VIEW



DETAIL	D6
1:SCALE	-
TYP 5 PLS	-

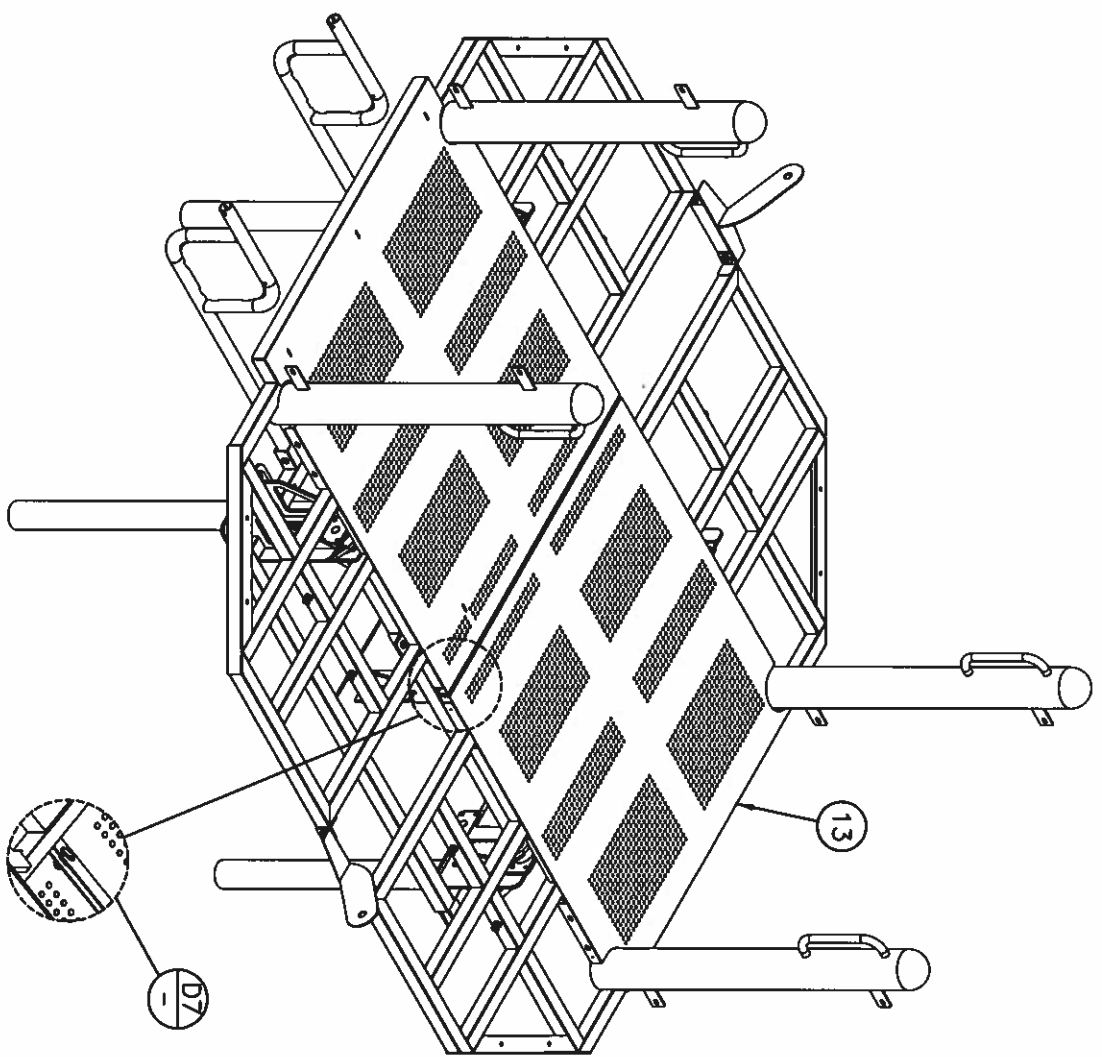
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



KB ROCK N SHIP

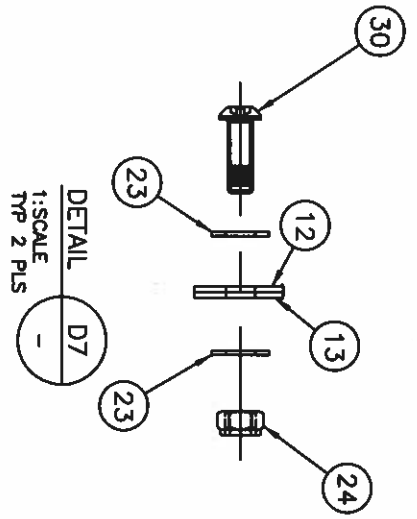
KB900047D

Sheet 8 of 13
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Harold Gabriel



NOT TO SCALE
SHOWN FROM BOTTOM VIEW

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]



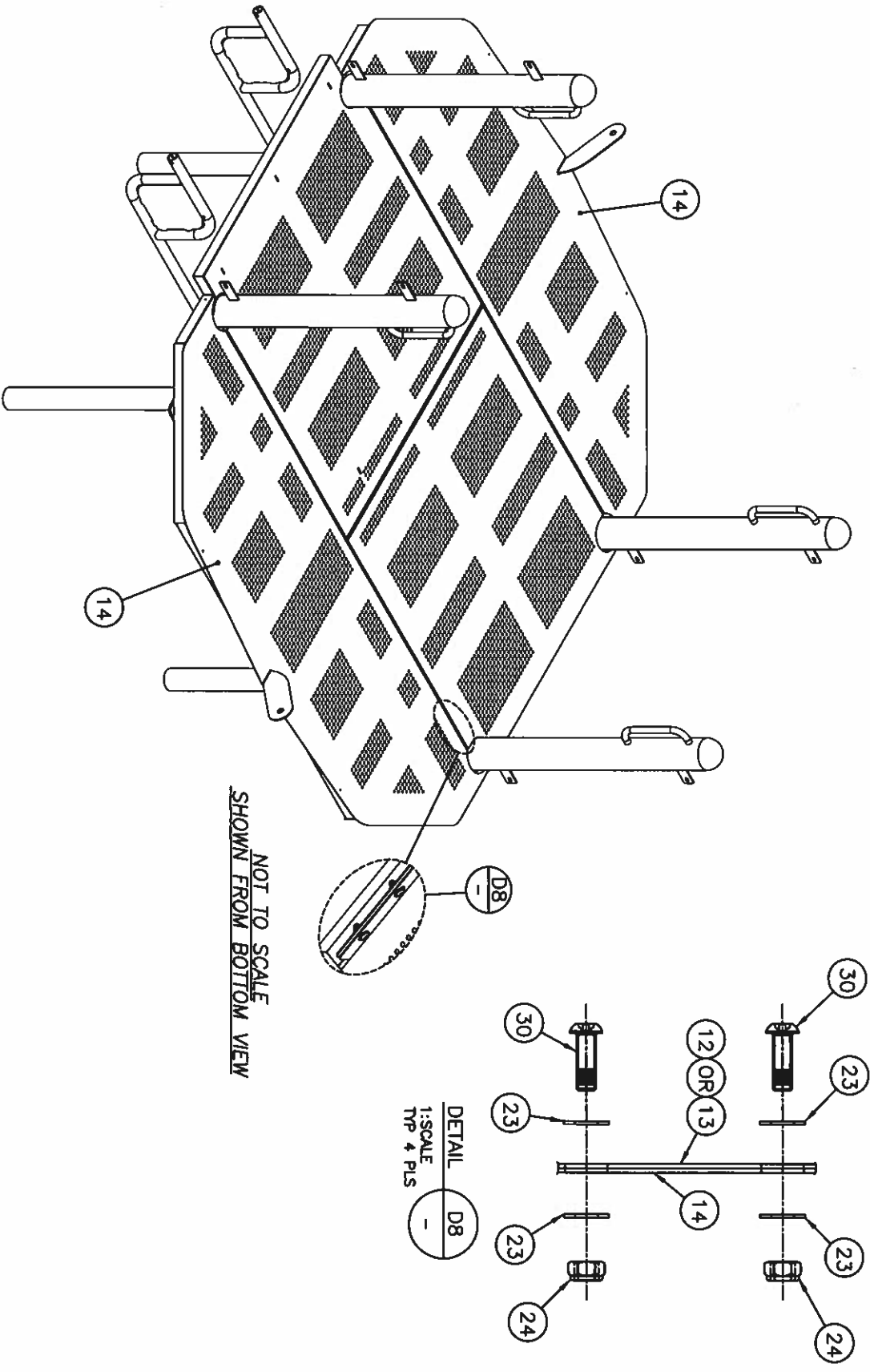
DETAIL D7
1:SCALE
TYP 2 PLS



KB ROCK N SHIP

KB9000047D

Sheet 9 of 13
AUTHORIZED BY: 100C117
Herold Gabriel



NOTE: FOR UNDERSUPFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

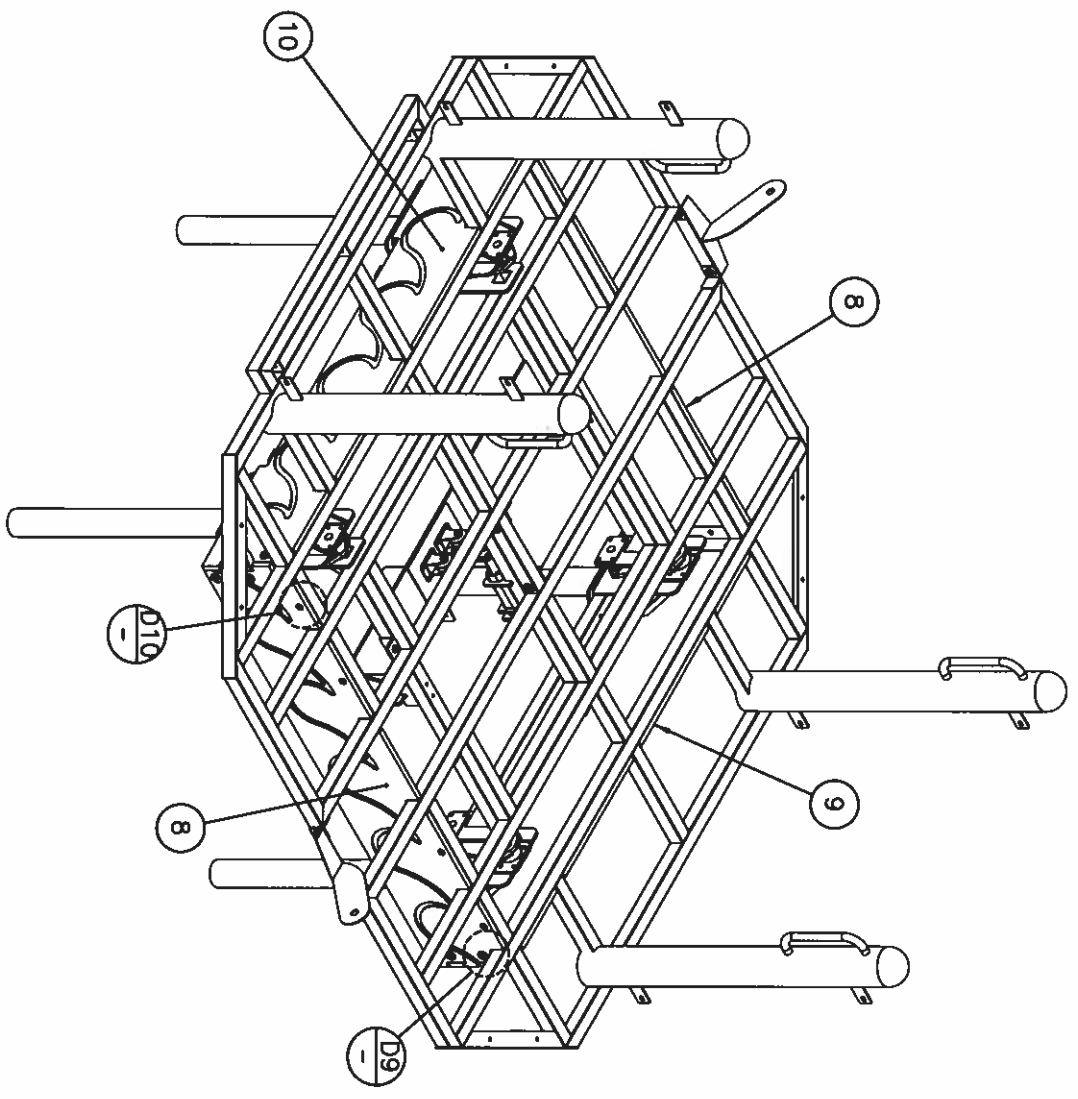


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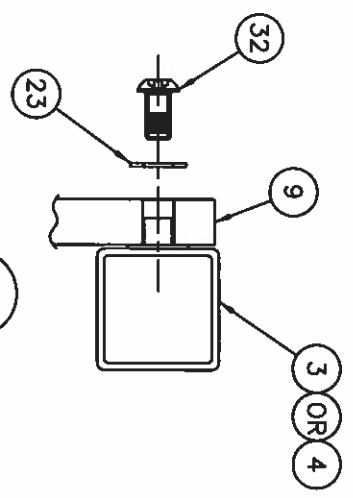
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Sheet 10 of 13

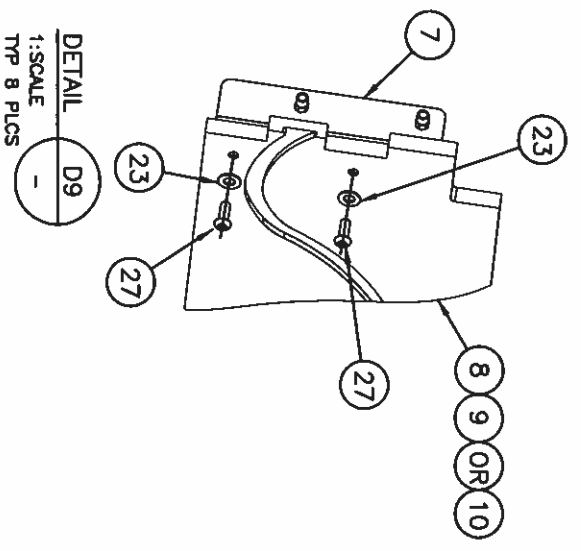
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Harold Gabriel



DECKS NOT SHOWN
FOR CLARITY



DETAIL D10
1:SCALE
TYP 8 PLCS



DETAIL D9
1:SCALE
TYP 8 PLCS

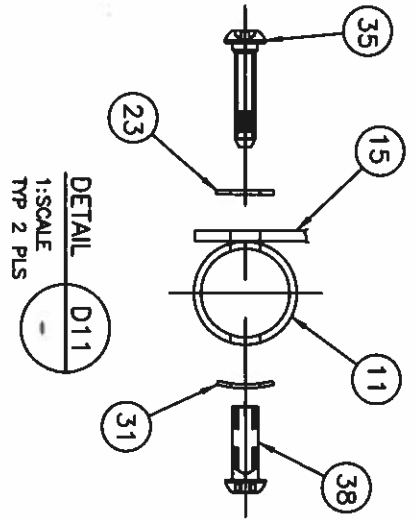
[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]



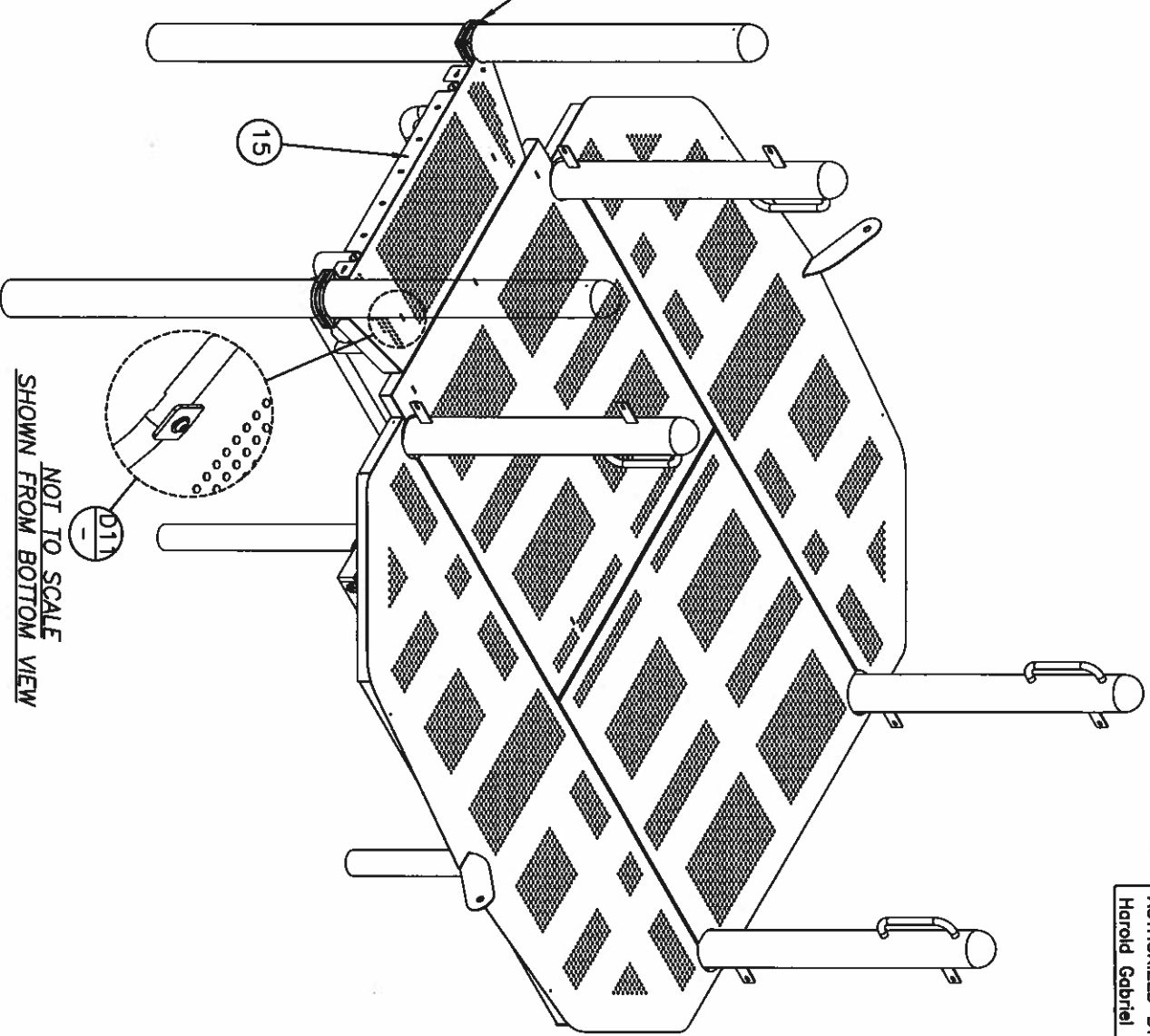
KB ROCK N SHIP

KB900047D

Sheet 11 of 13
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Harold Gabriel



Refer to front of Manual
for Deck Clamp Installation



NOT TO SCALE
SHOWN FROM BOTTOM VIEW

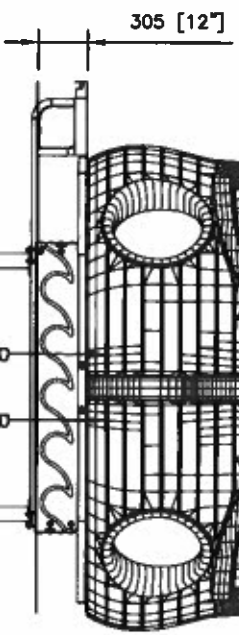
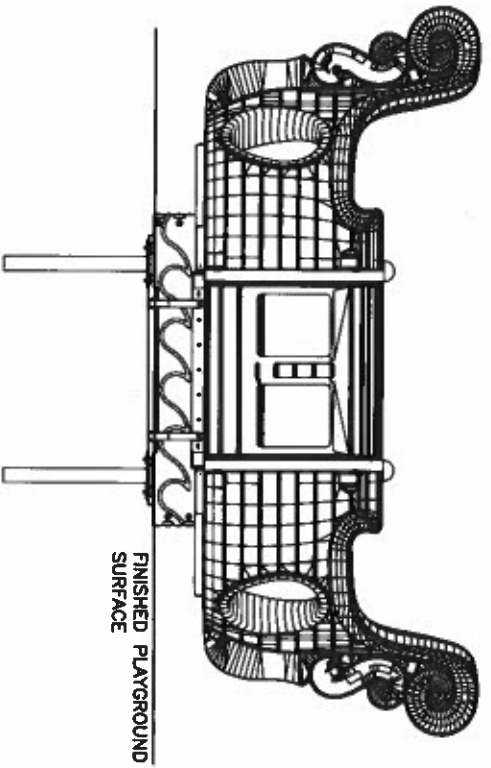
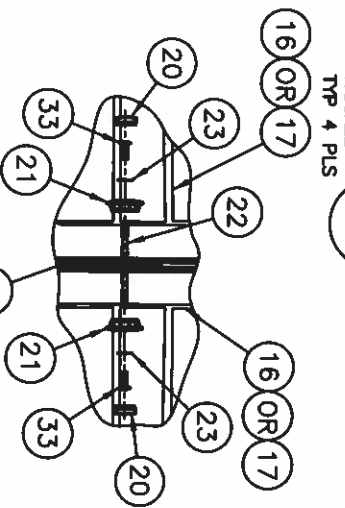
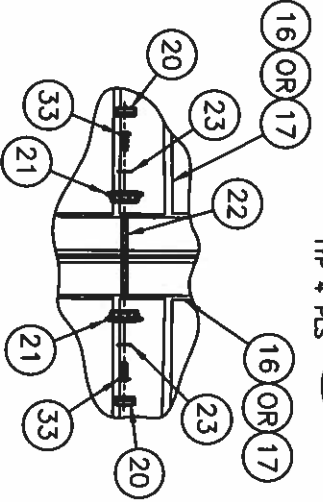
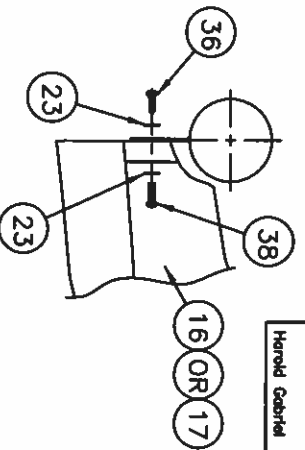
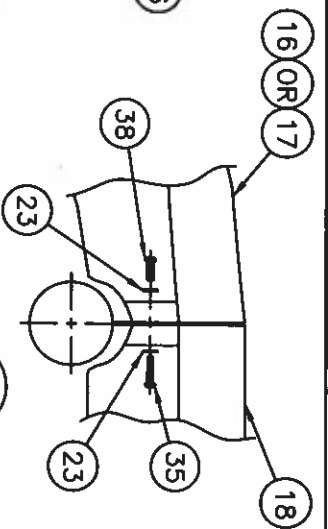
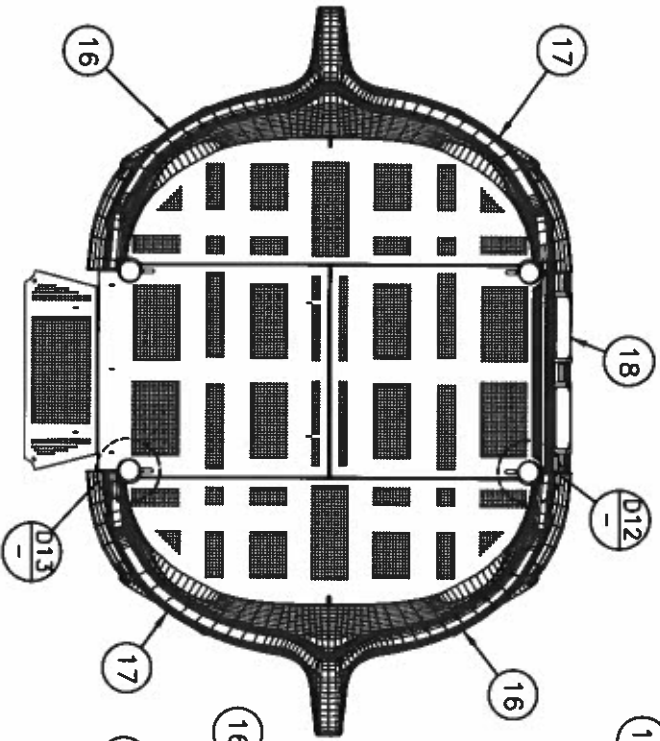
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB ROCK N SHIP

KB900047D

Sheet 12 of 13

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Herald Gabriel



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

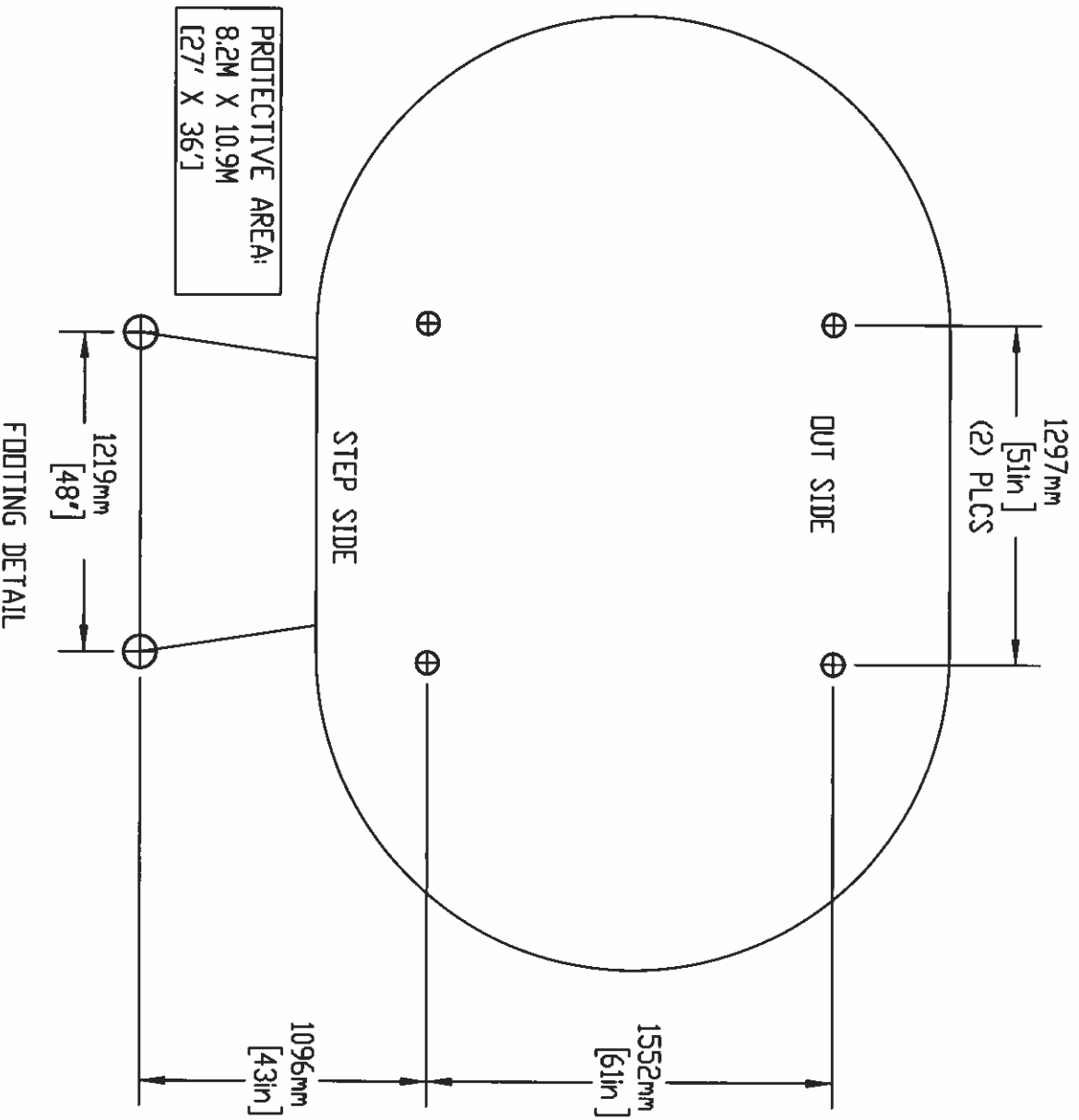


KB ROCK N SHIP

KB900047D

Sheet 13 of 13

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Harold Gabriel



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]



Project Number: 10005190181

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Coastline Specialties Ltd
46 Robin Hood Bay Road
St. John's, NL A1A 5V3
(709) 726-9155

Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 8/26/2019 12:00:00 AM

Installation Instructions

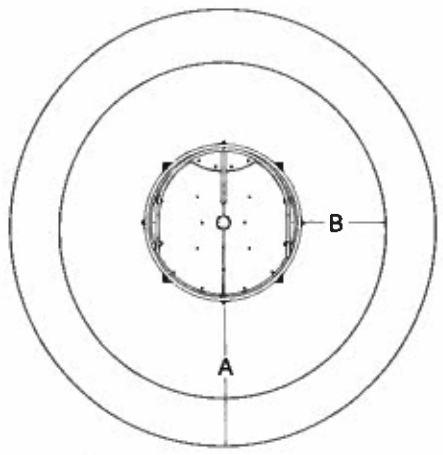
Models ZZXX1158, ZZXX1158S
 200203481, 305 and 305BD
 Accessible Whirl
 In-Ground and Surface Mount



Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time (In-Ground):.....	6.5 man-hours
Installation Time (Surface Mount):	4 man-hours(not including base)
Concrete Required:	See Footing Details
Use Zone:.....	Refer to below
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

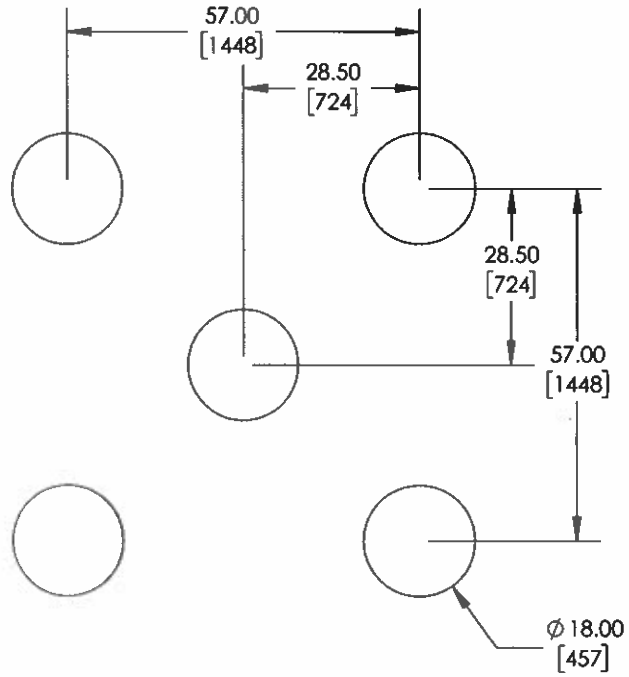


Equipment Use Zone
 A - (ASTM) 108 in. (2743 mm)
 (CSA) 2700 mm
 (EN) 2000 mm

Equipment Non-Overlapping
 Use Zone
 B - (ASTM) 72 in. (1830 mm)
 (CSA) 1800 mm

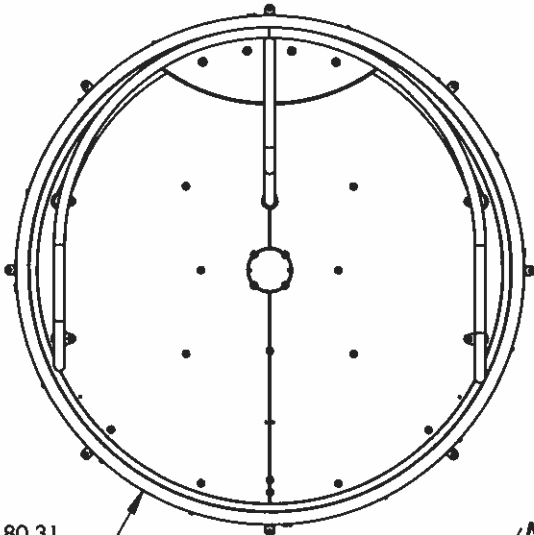
Installation Instructions

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



Footing Diagram

Top View

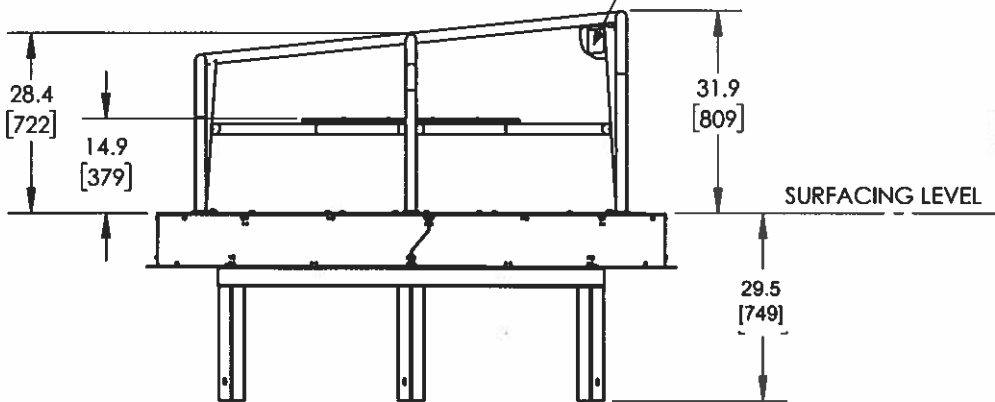


Ø 80.31 [2040]

Note: Place the Warning label here.



ALB0054
 (1 Total)



Elevation View
 ZZXX1158



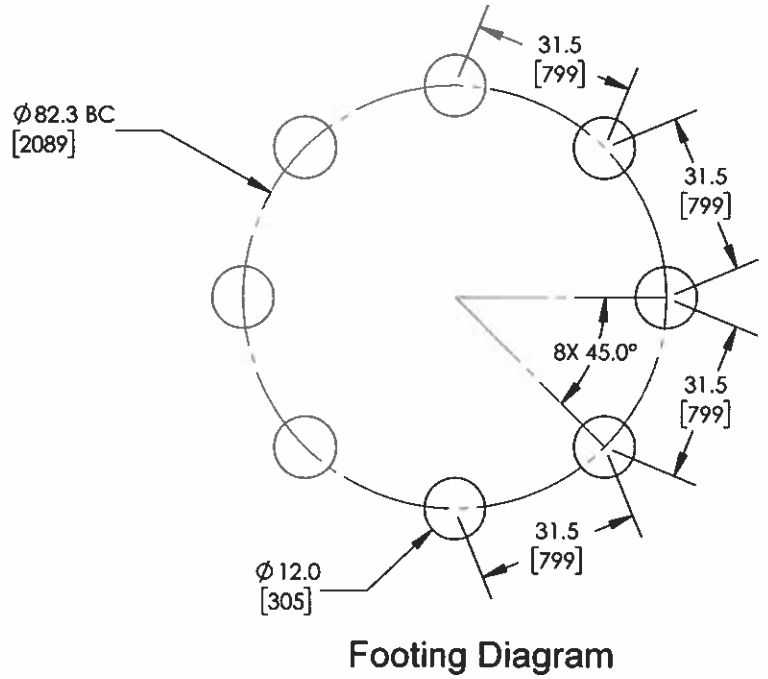
19.9" (379 mm)

In-Ground Model

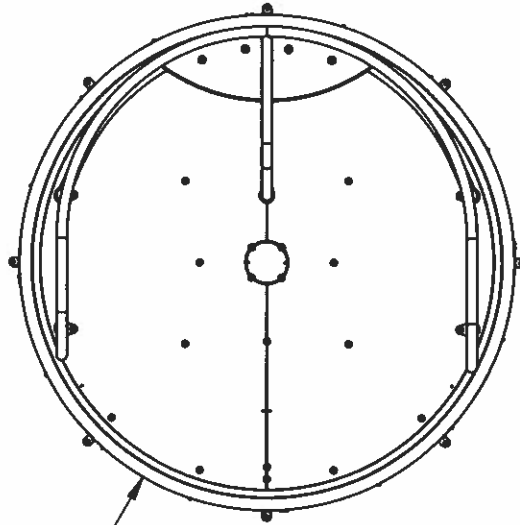
Installation Instructions

KEY

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

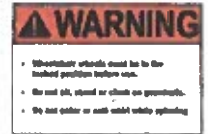


Top View

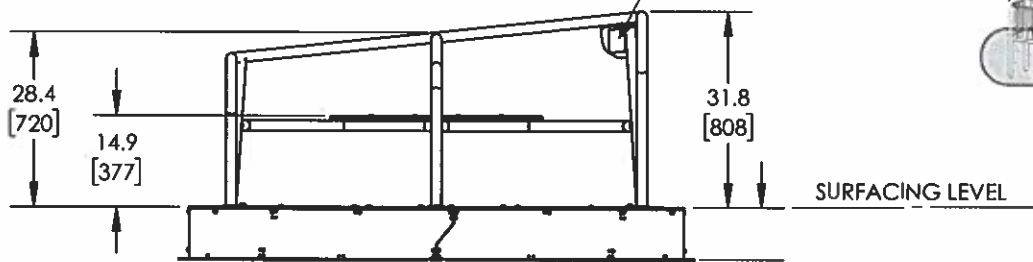


Ø 80.31
[2040]

Note: Place the Warning label here.



ALB0054
(1 Total)



19.9" (379 mm)

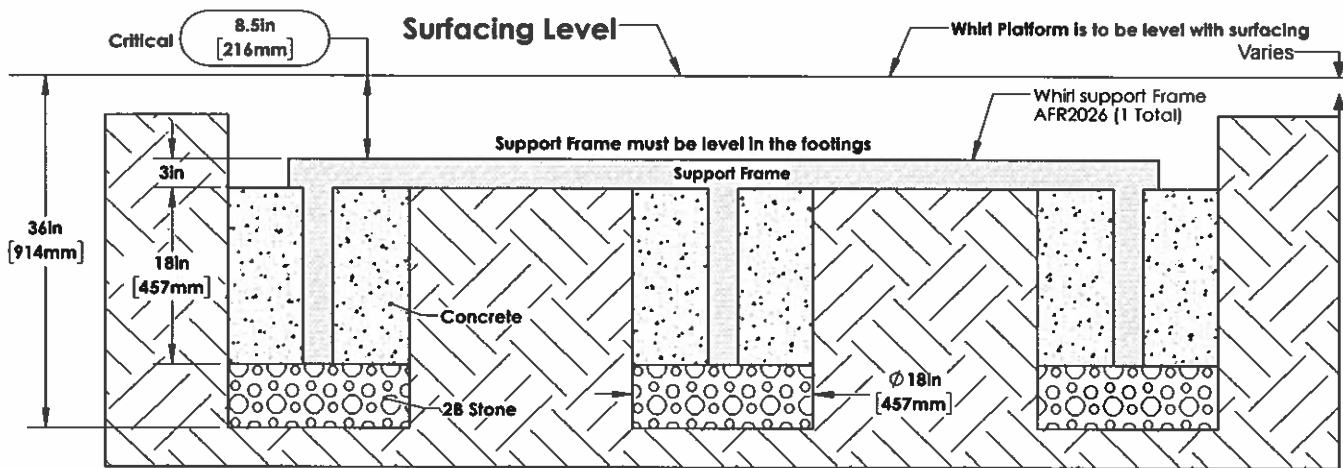
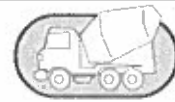
Elevation View
ZZXX1158S

Surface Mount Model

Installation Instructions

IN GROUND FOOTING DIAGRAM


1. Excavate footings.
2. Concrete footer frame in footings (in-ground model).
3. Allow 72 hours for concrete to cure.



Support Frame Footing Detail

Concrete Required:
 0.47 cubic yard (0,35 cubic meter)

FOOTING NOTES

- Support frame footing depth equals 36 in. (914 mm) less the depth of the protective surfacing material. The support frame post is designed to have 18" (457 mm) in concrete.
- **Site must drain properly to prevent permanent damage to the support bearing.** 
- **Do not encase bottom of support post in concrete. Place post directly on packed stone.**
- The footings shown on this 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.

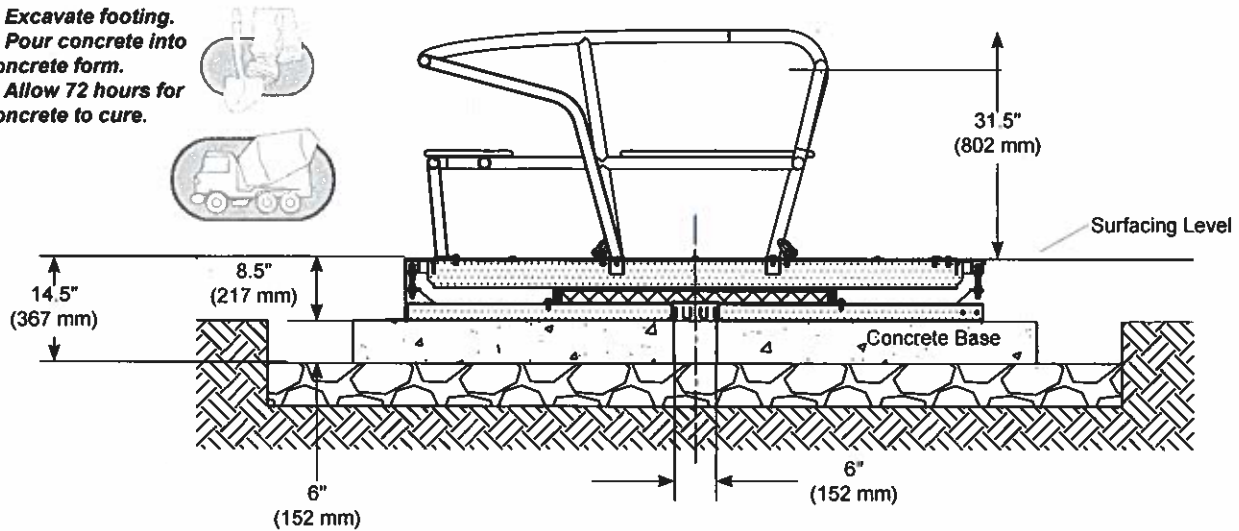


Caution: Standing water within the units footing area will cause support bearing failure!

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAM

1. Excavate footing.
2. Pour concrete into concrete form.
3. Allow 72 hours for concrete to cure.



DEFINITIONS

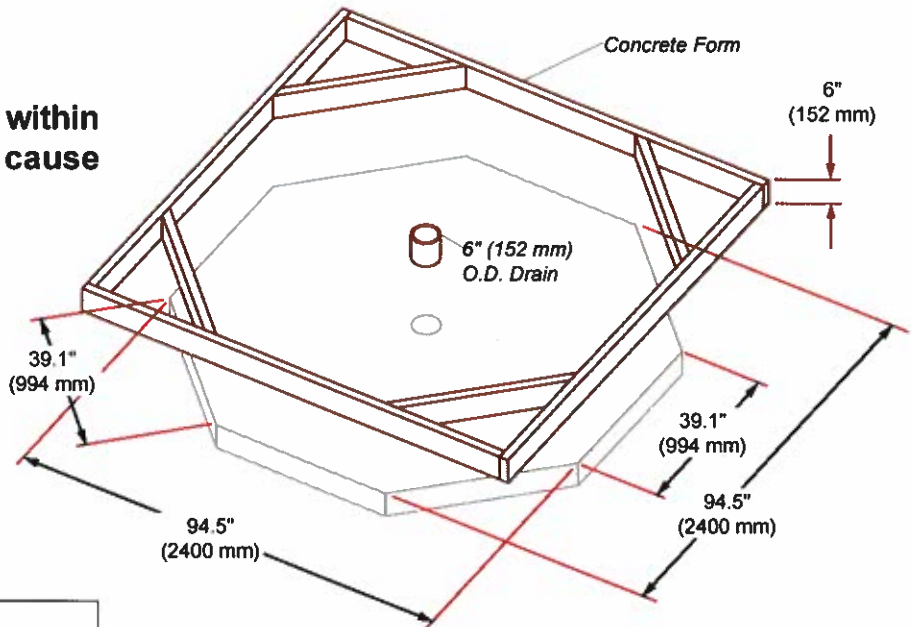
- **Concrete Pier:** A pier type surface mount installation is defined as a footing hole that has been excavated and poured with concrete. Concrete should be flush to the top surface of excavated hole. Equipment would then be secured to this concrete footing that has been properly cured.
- **Concrete Slab:** Existing concrete slab type installation is defined as equipment being secured to an existing concrete pad or slab. As an example, this pad could be in the form of an existing concrete parking lot.

Very Important Note: Finished grade of the slab, or pier, must be perfectly flat as to prevent warping in the bearing structure when anchored.

FOOTING NOTE: Surface mount hardware is not supplied. The customer is responsible for the concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.














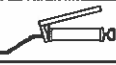
Caution: Standing water within the units footing area will cause support bearing failure!



Concrete Required:
 0.75 cubic yard (0,57 cubic meter)

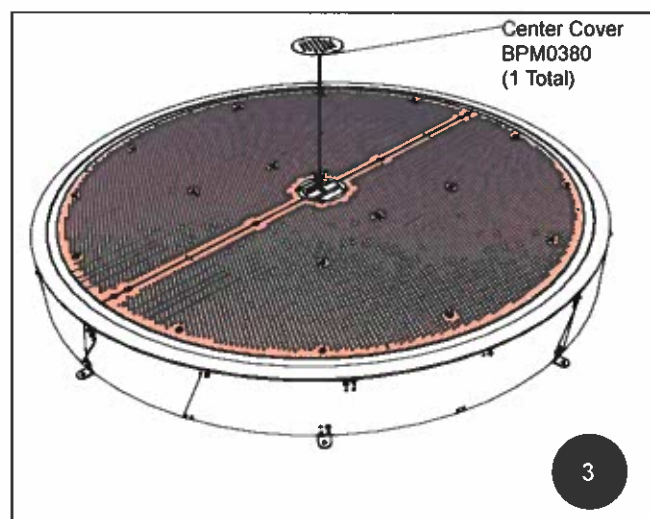
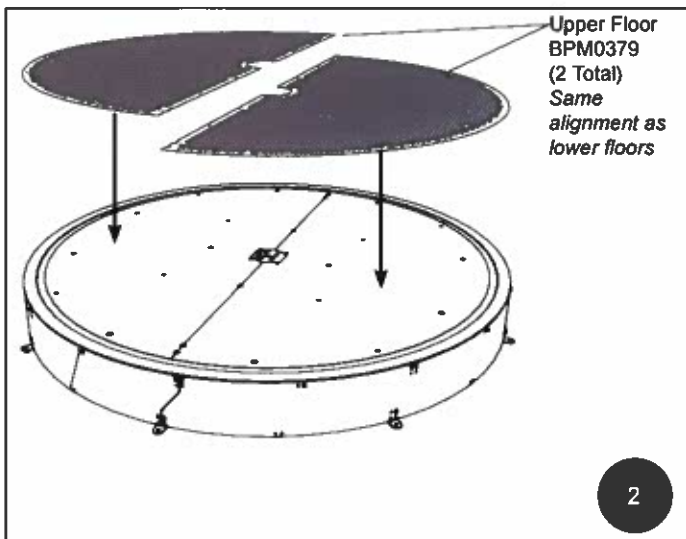
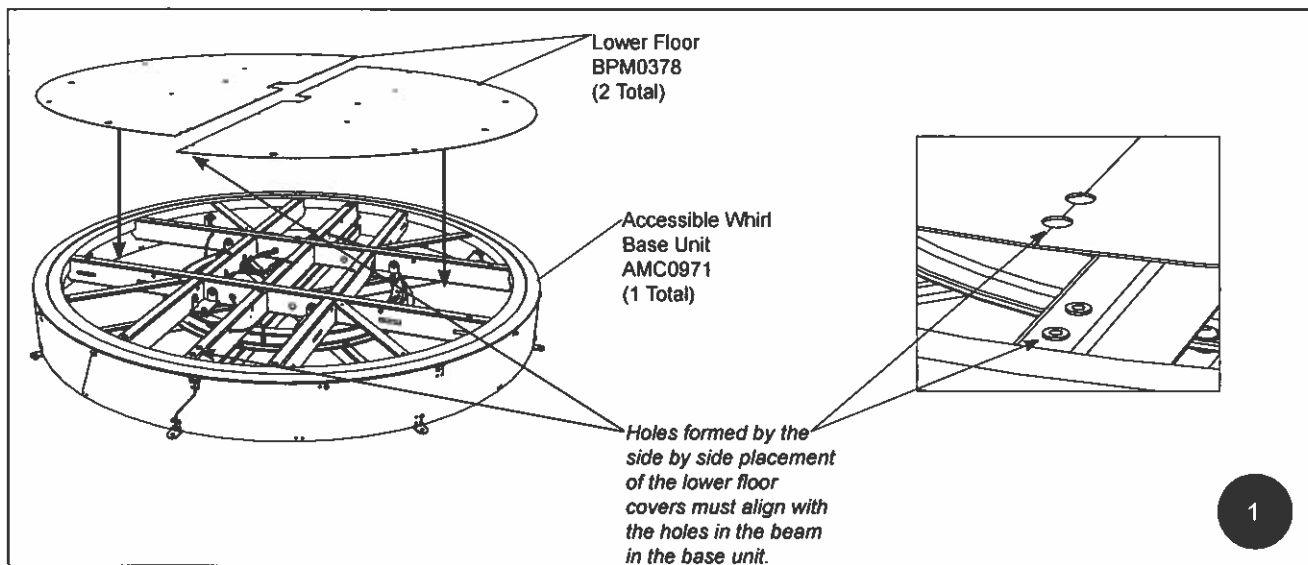
Concrete Base Detail

Installation Instructions

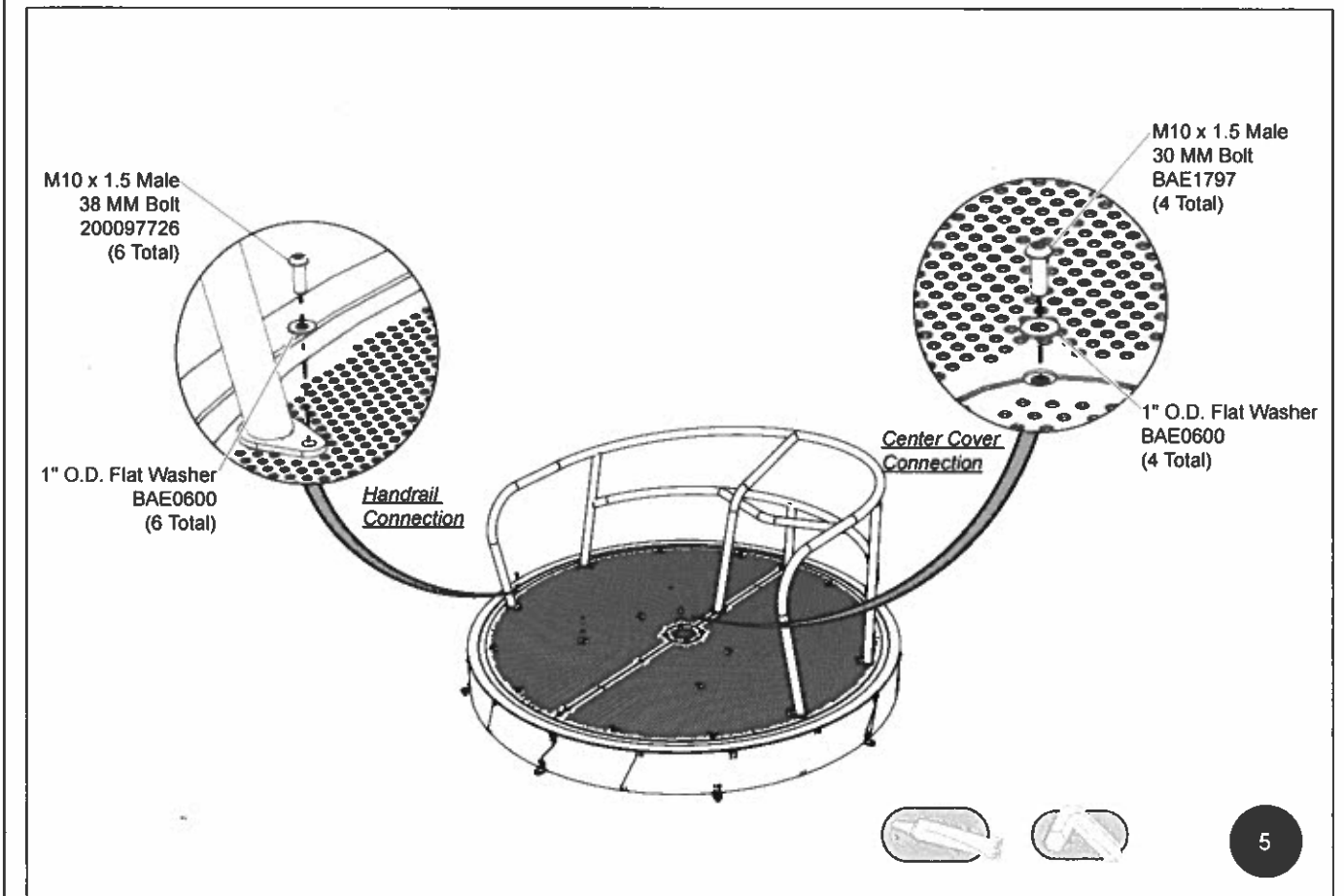
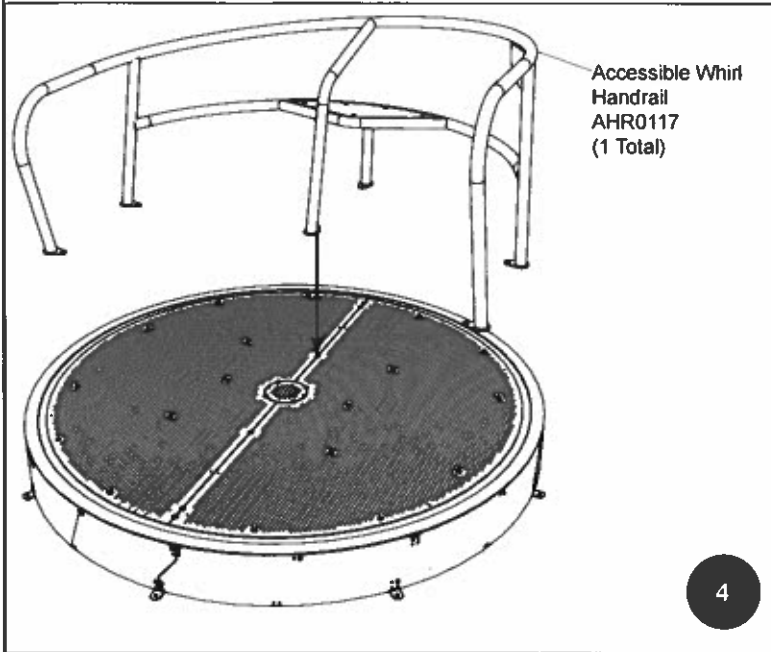
ICON KEY					
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive		Crane
	Do Not Fully Tighten Hardware		Pour Concrete		Listen
	Fully Tighten Hardware		Dig Footing Holes		Look
	Weight		Critical Fall Height		General Purpose Grease

Installation Instructions:

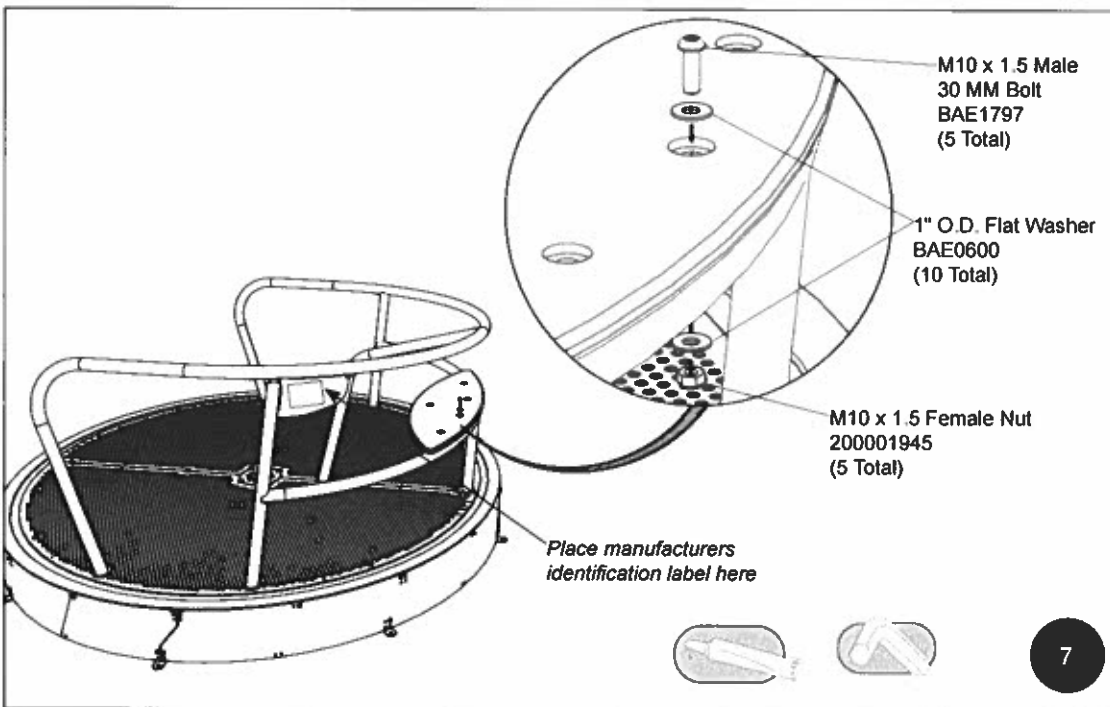
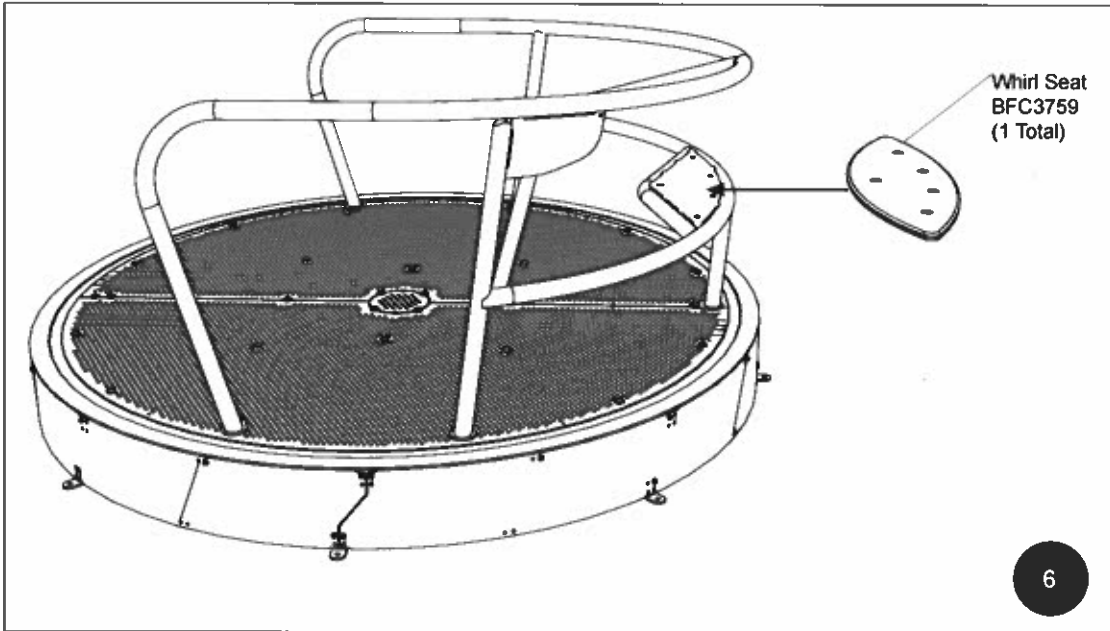
1. Prepare footings as shown on pages 4 and 5 of this document.
2. Assemble equipment as shown.
3. Place equipment in, or on, its footings.
4. Movement inspection.



Installation Instructions

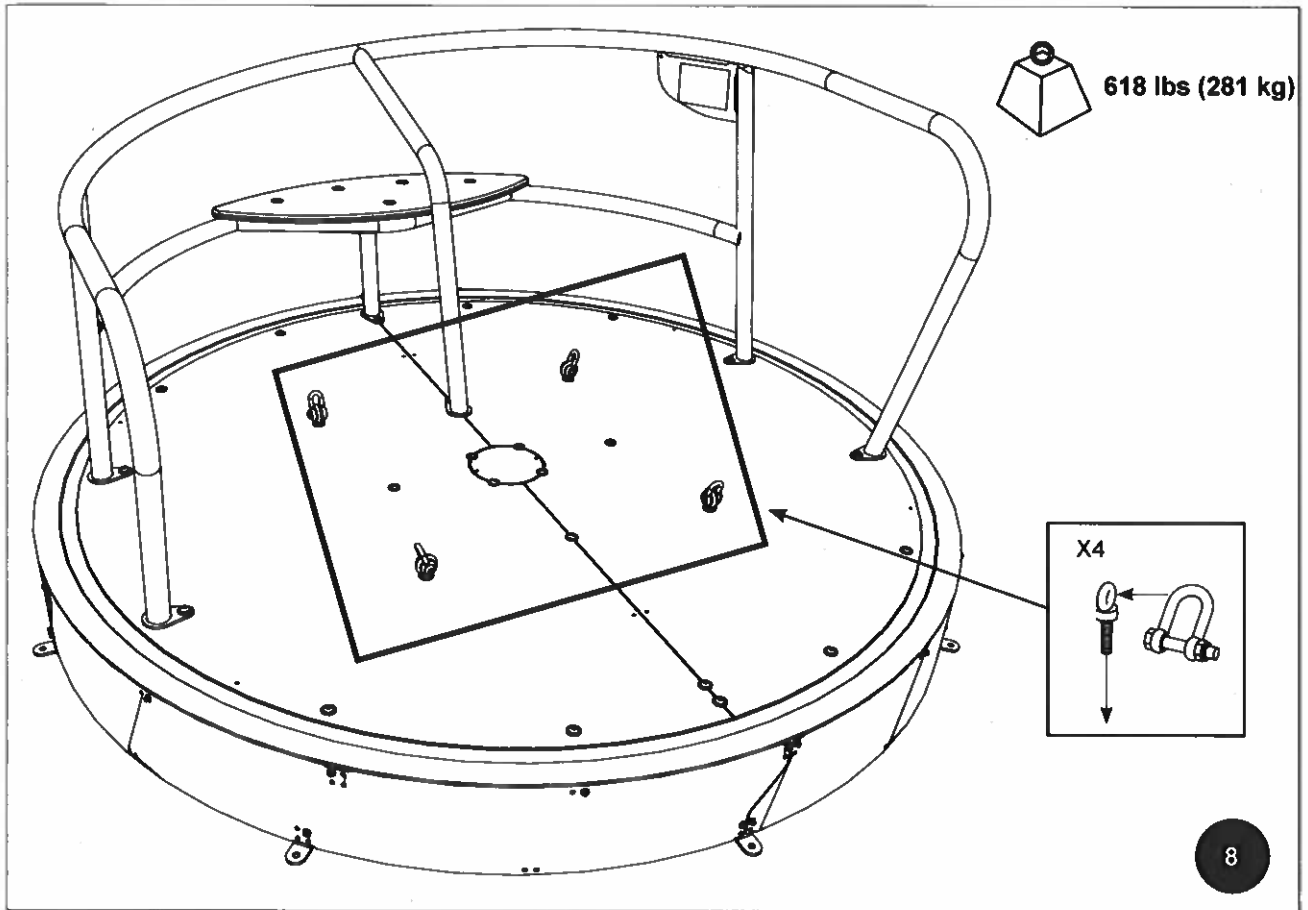


Installation Instructions



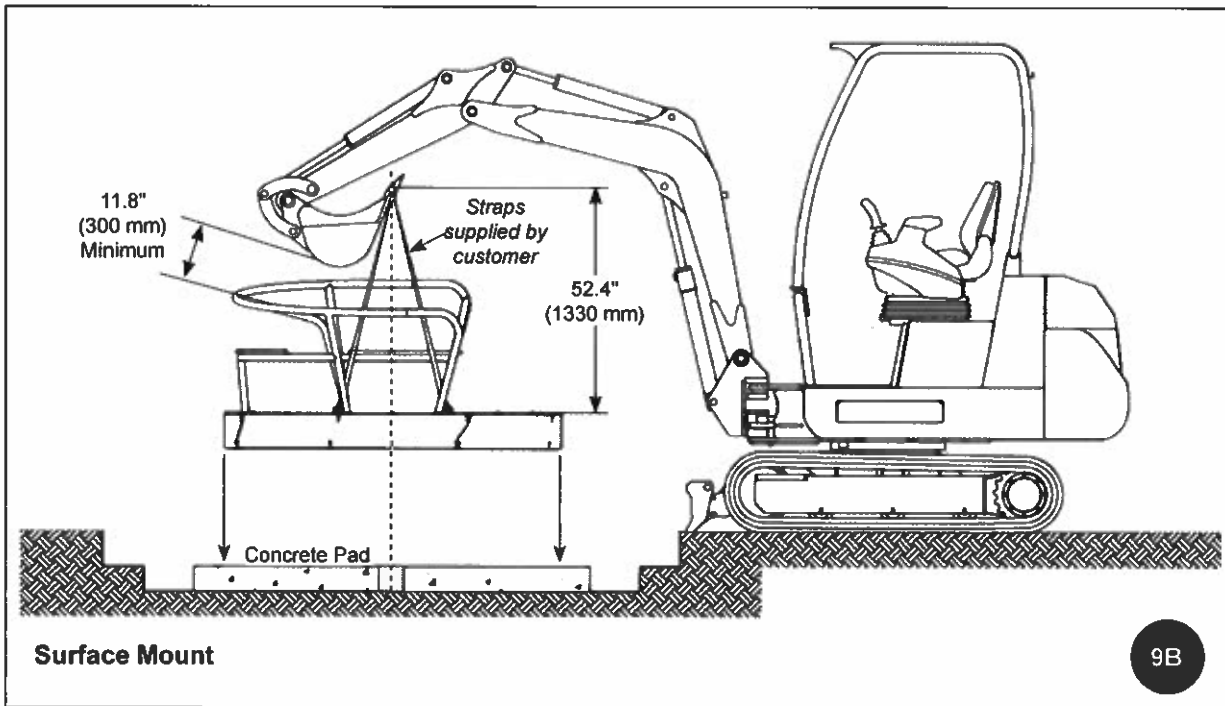
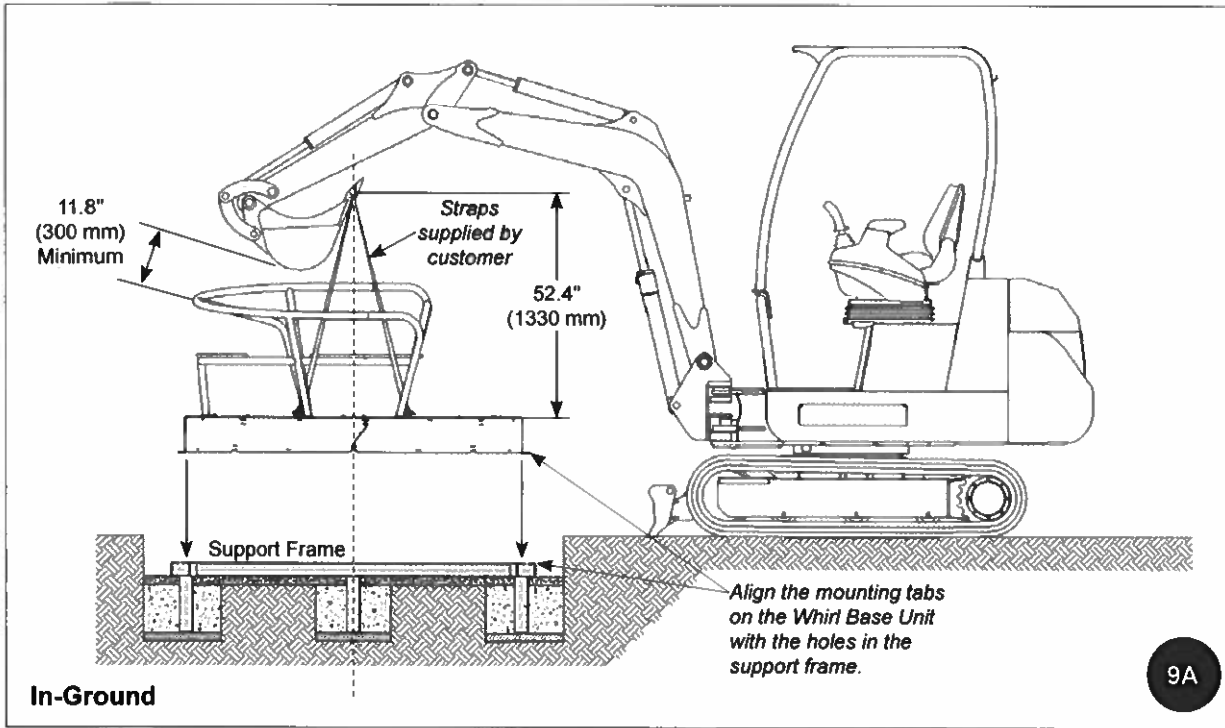
Installation Instructions

Prepare the Unit for Placement with a Crane



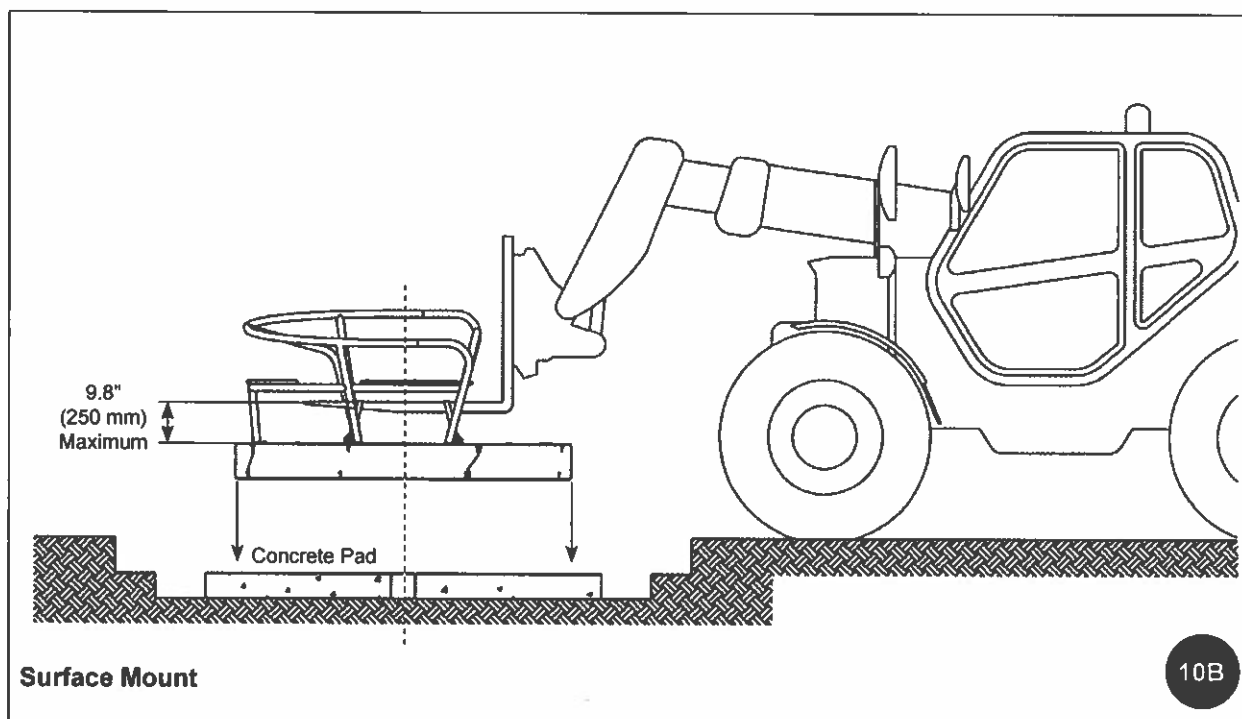
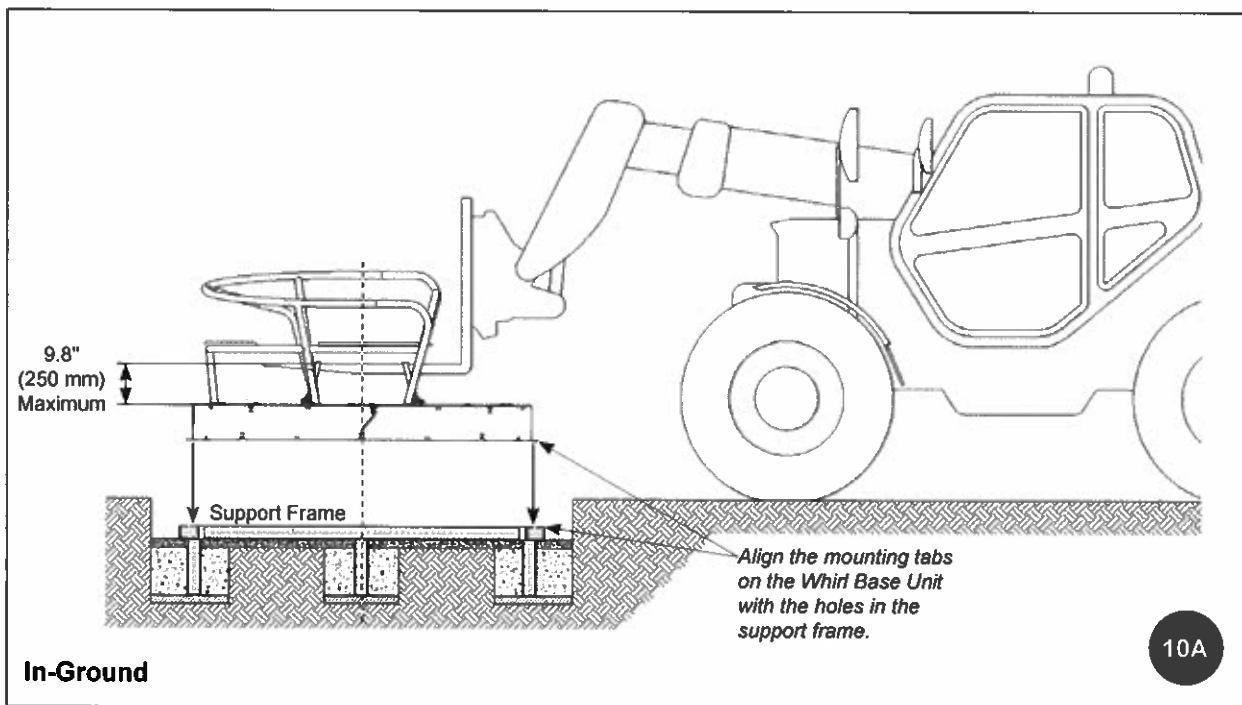
Installation Instructions

Place the Unit on the Footing with a Crane



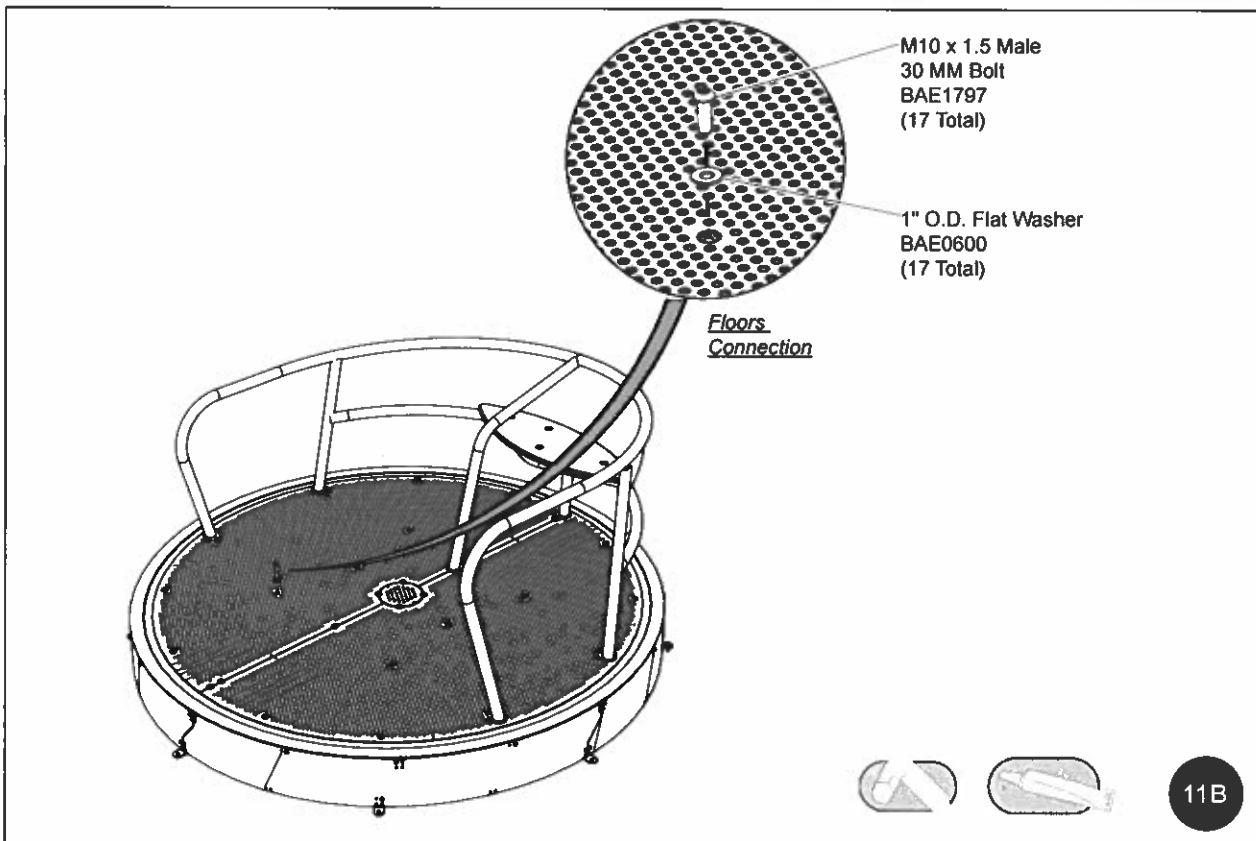
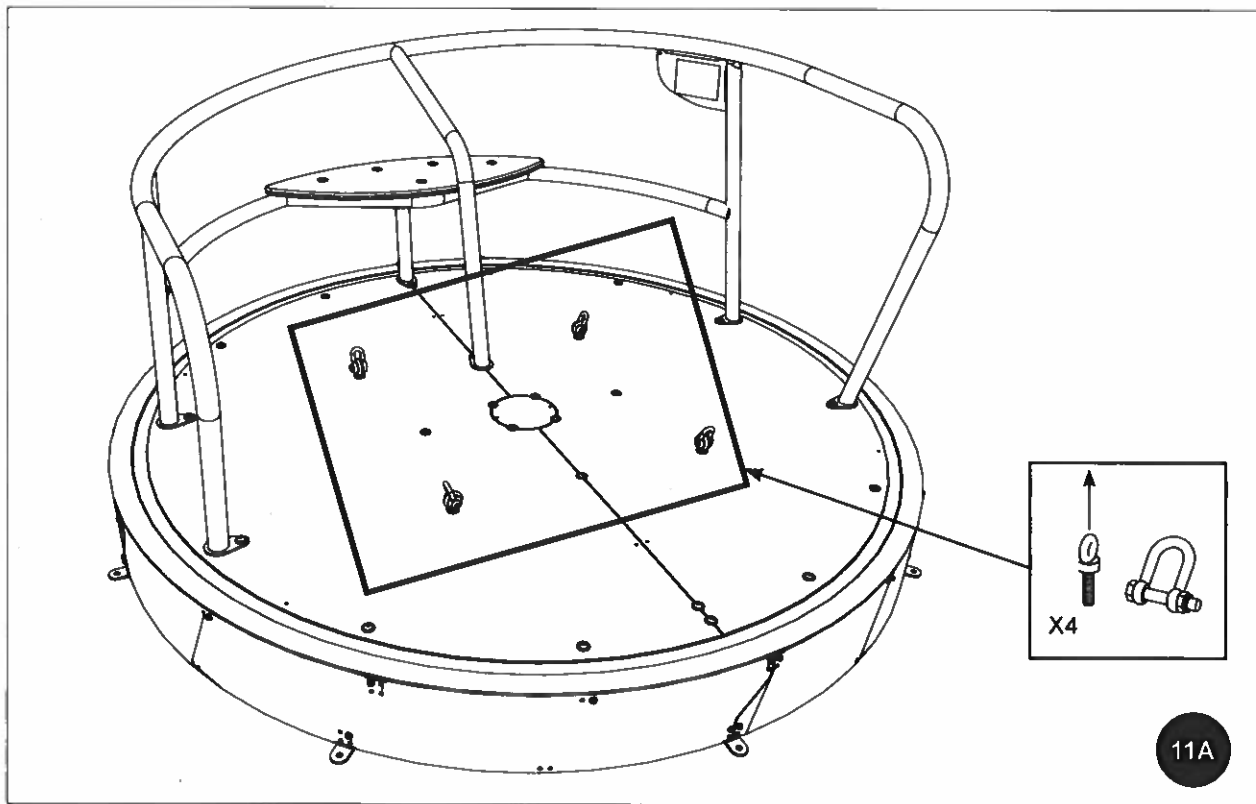
Installation Instructions

Place the Unit on the Footing with a Fork Lift



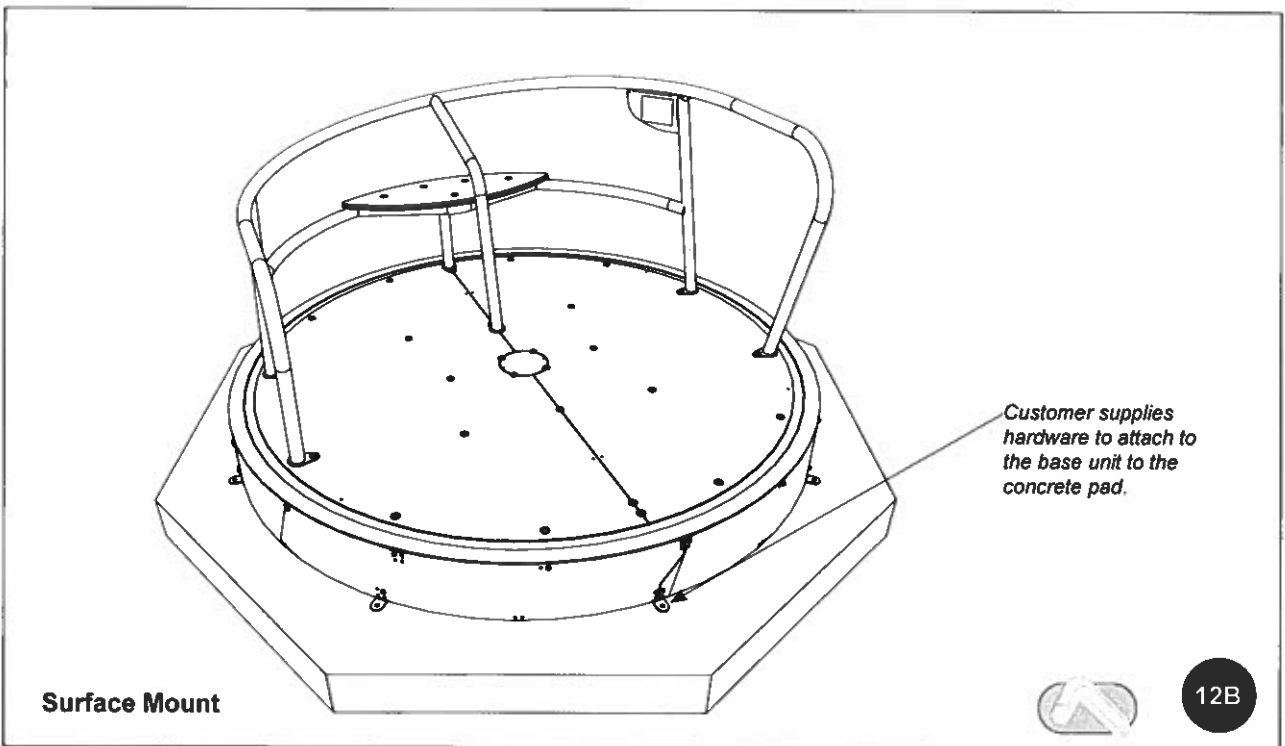
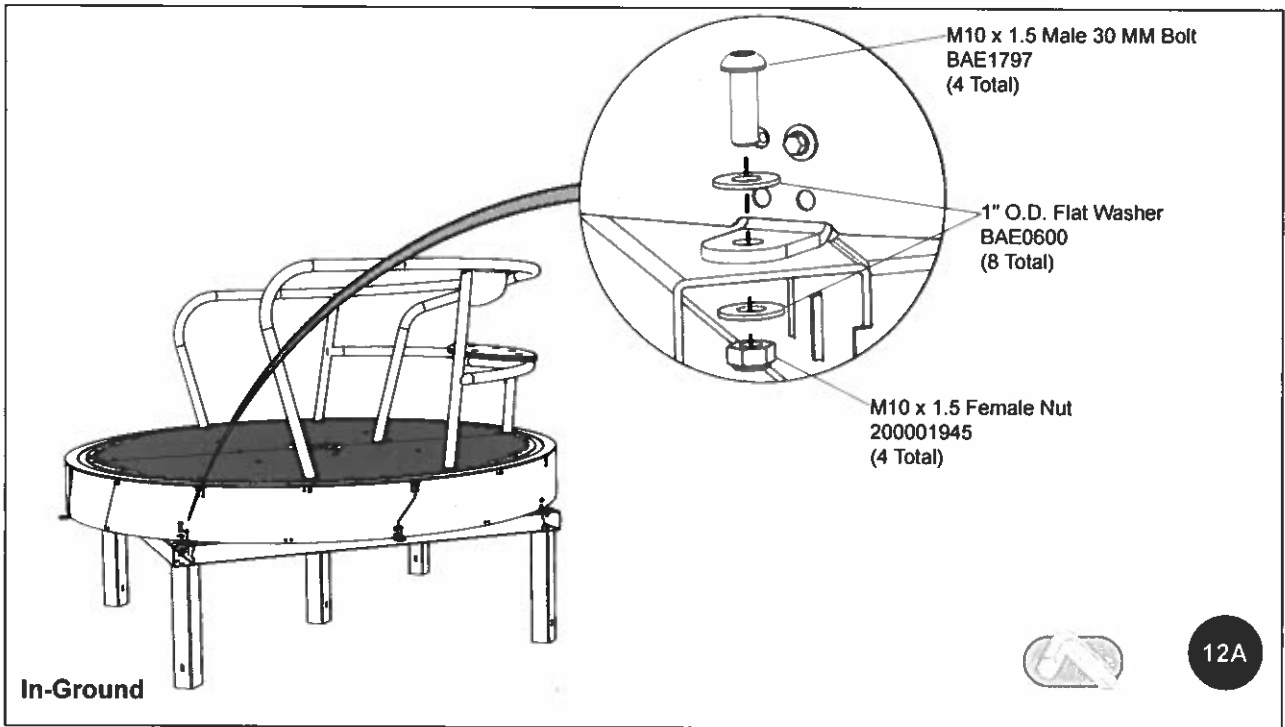
Installation Instructions

Finish Securing the Floors to the Base Unit



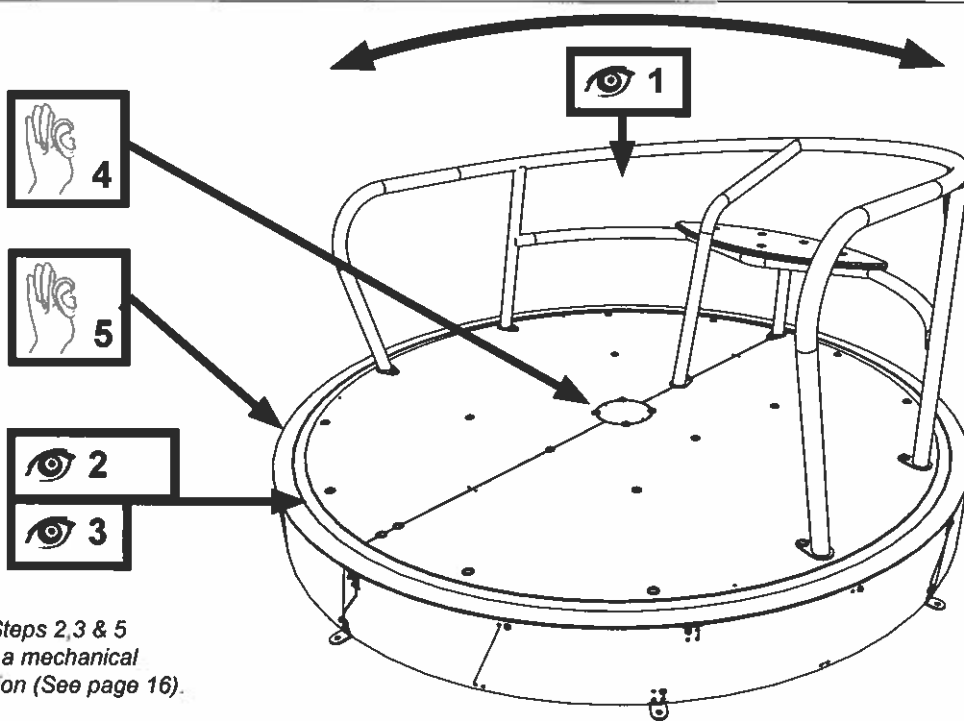
Installation Instructions

Secure the Unit on the Footing

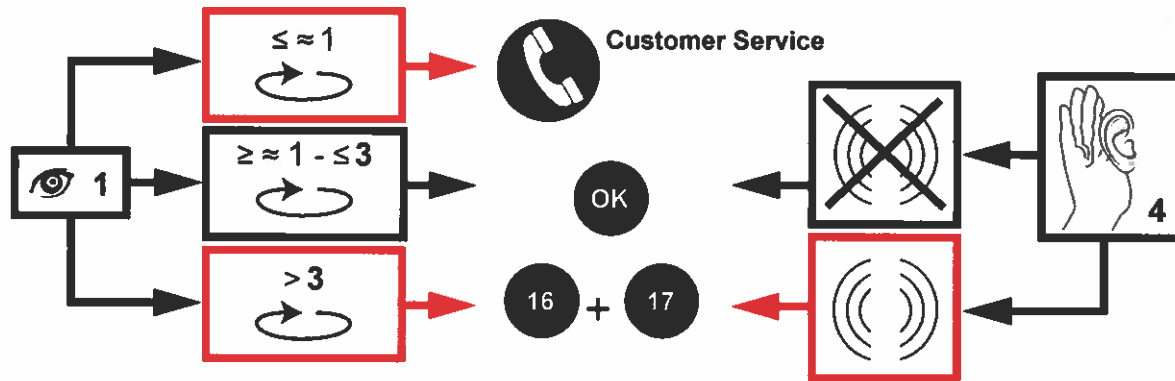


Installation Instructions

Movement Inspection



Procedure to determine if bearings needed lubrication.



Installation Instructions

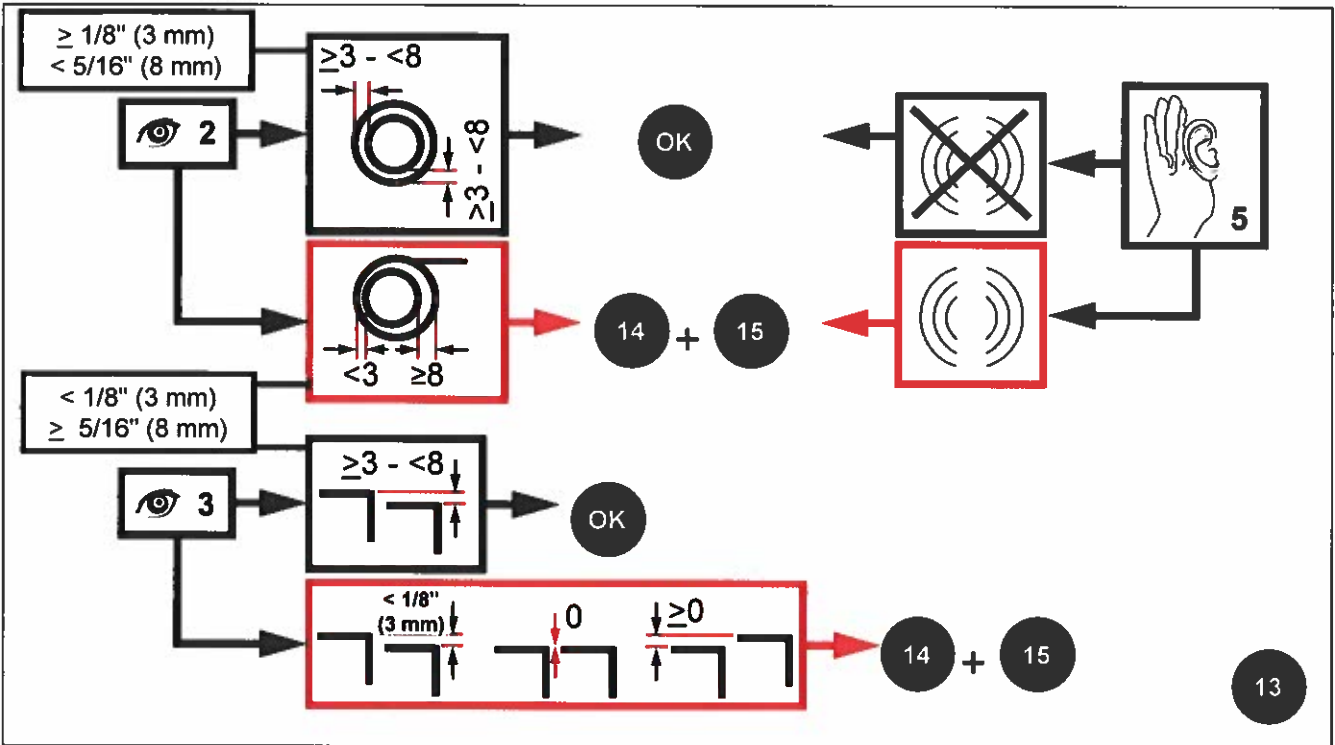
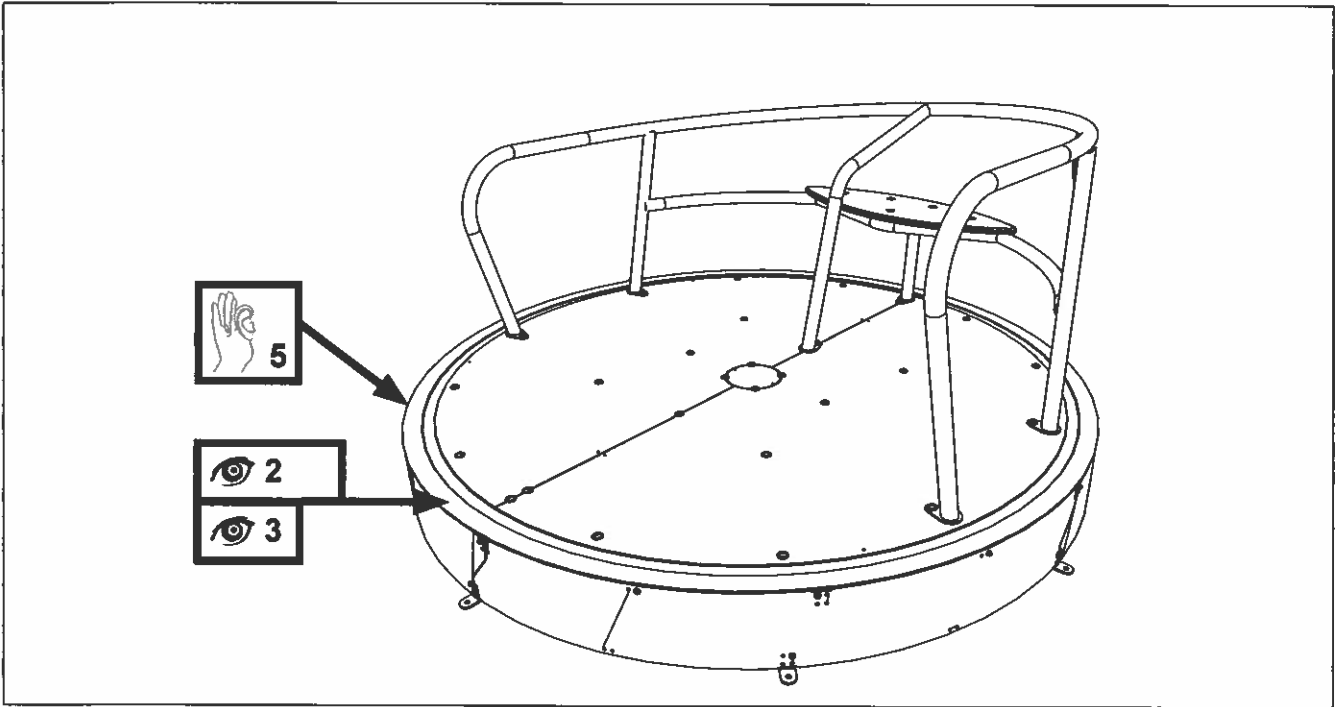
Stop!

Ensure the assembled whirl spins freely before installing the surfacing as adjustments to the base unit will not be accessible.

If unit still does not spin freely, proceed to Step 13 on the next page.

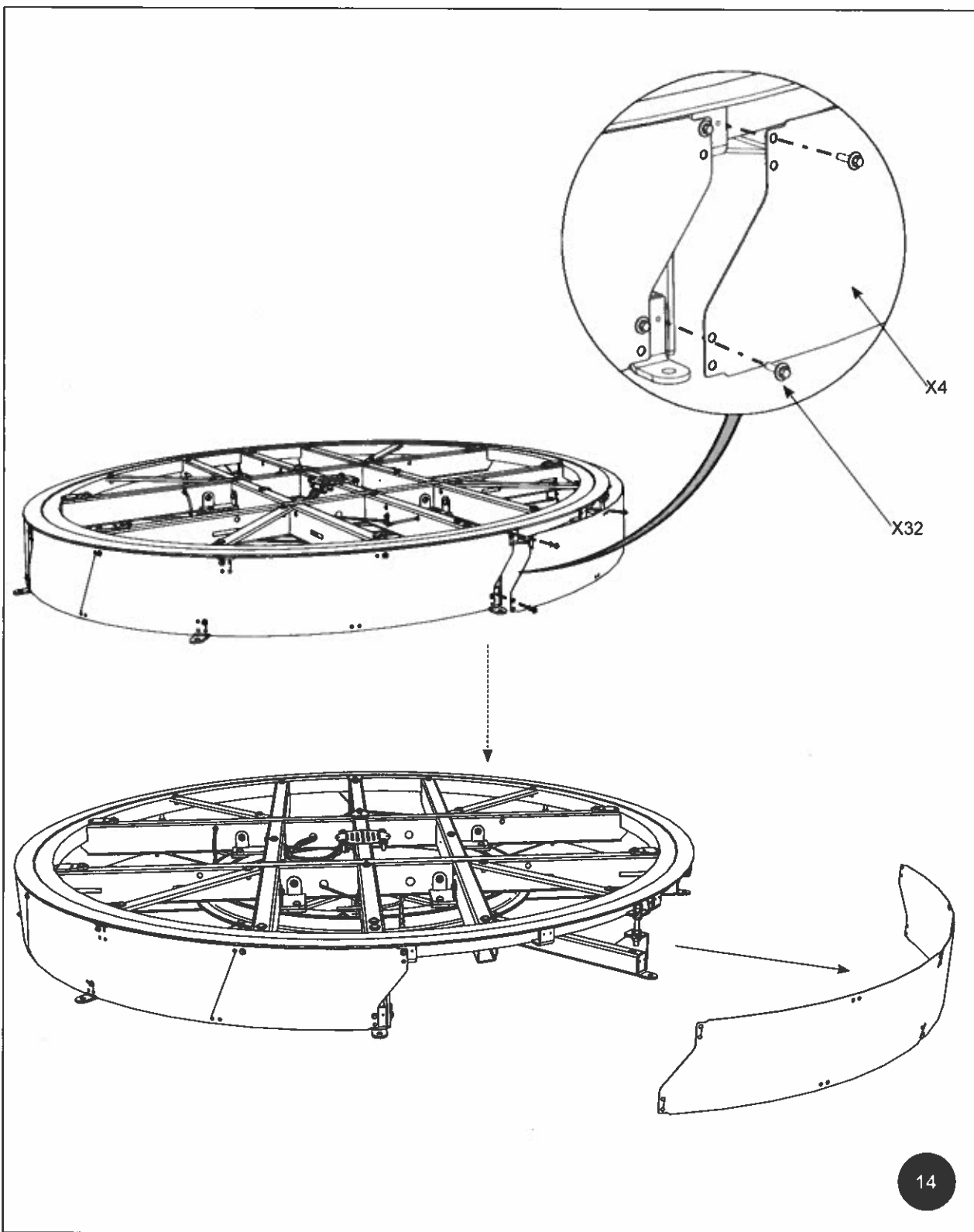
Installation Instructions

Mechanical Inspection



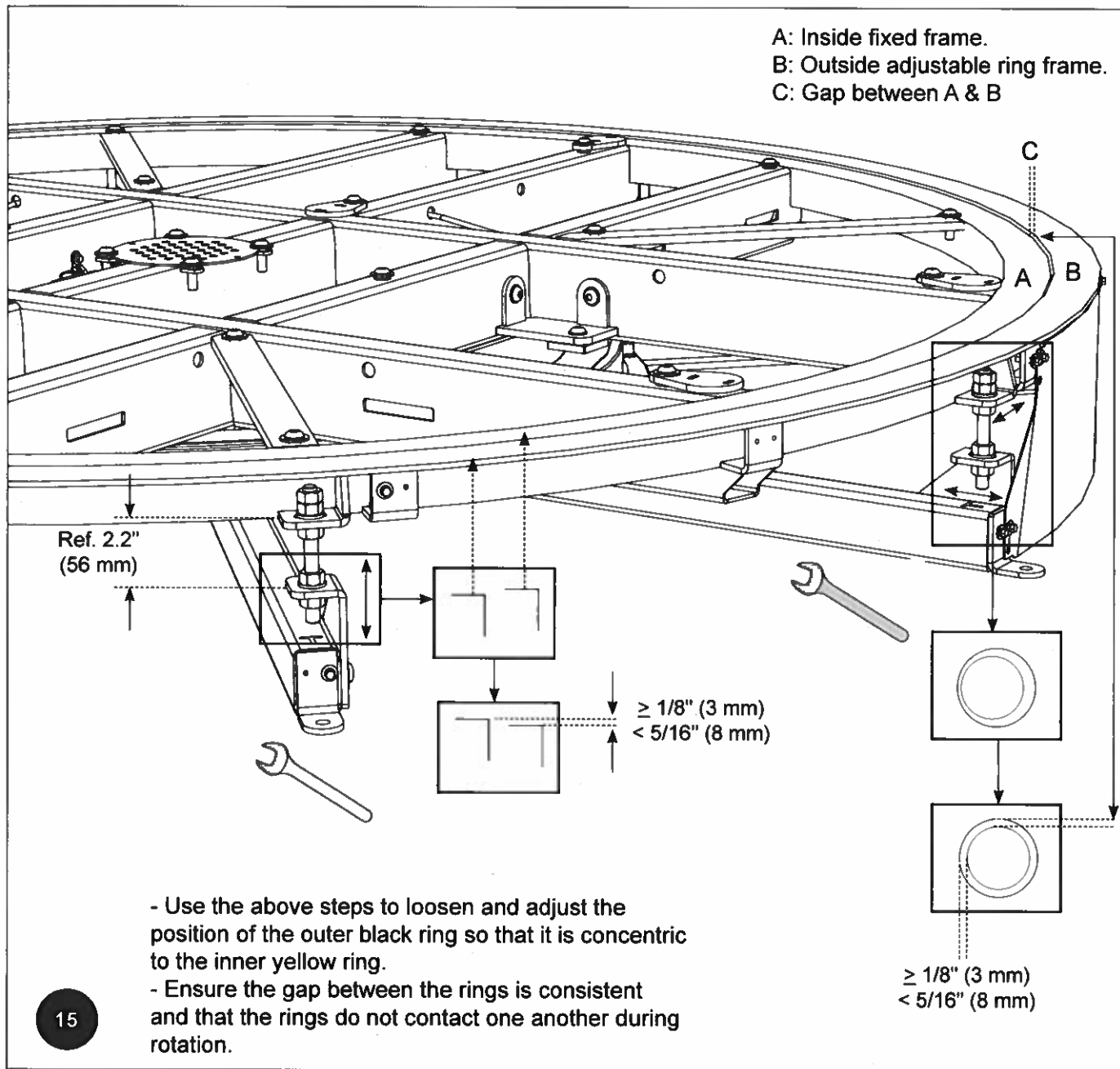
Installation Instructions

Remove Skirting



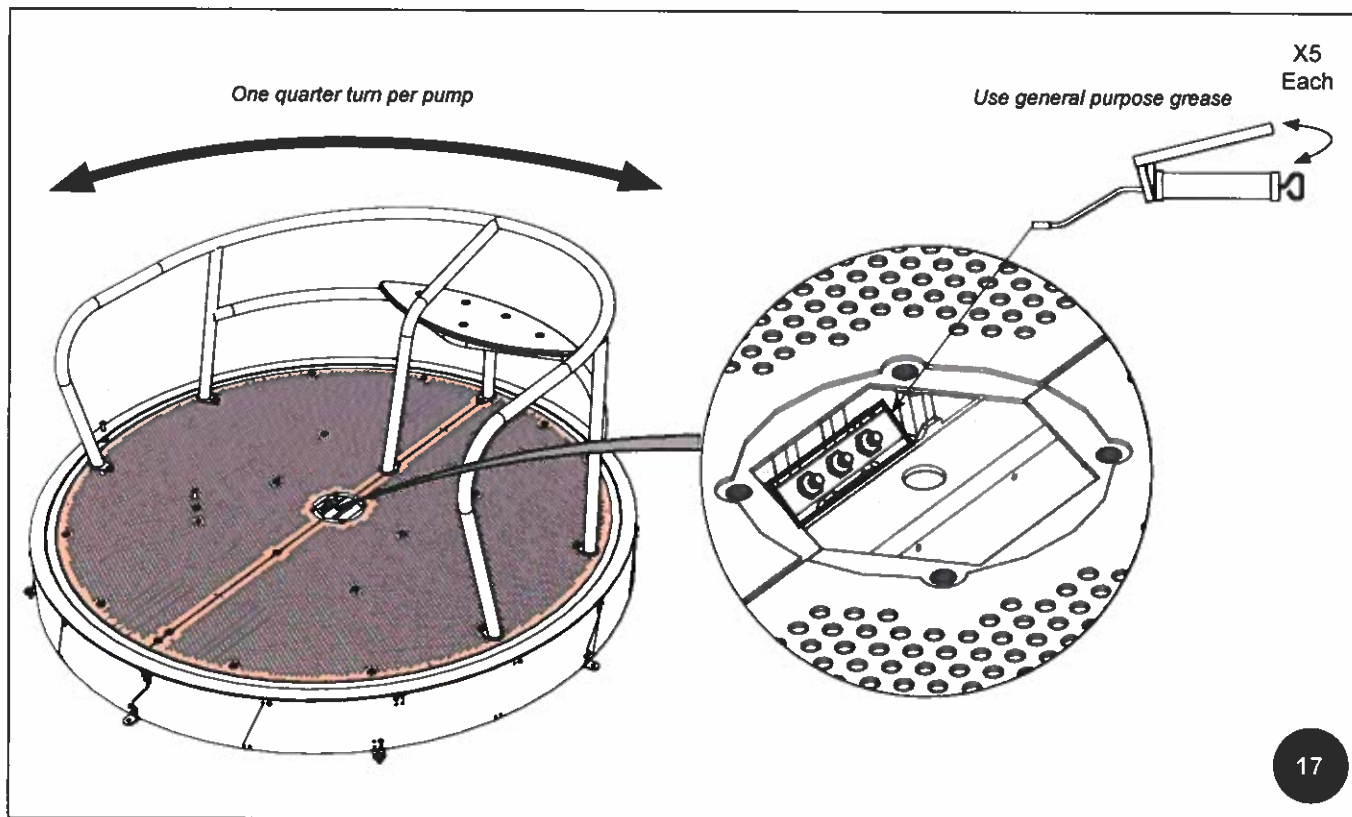
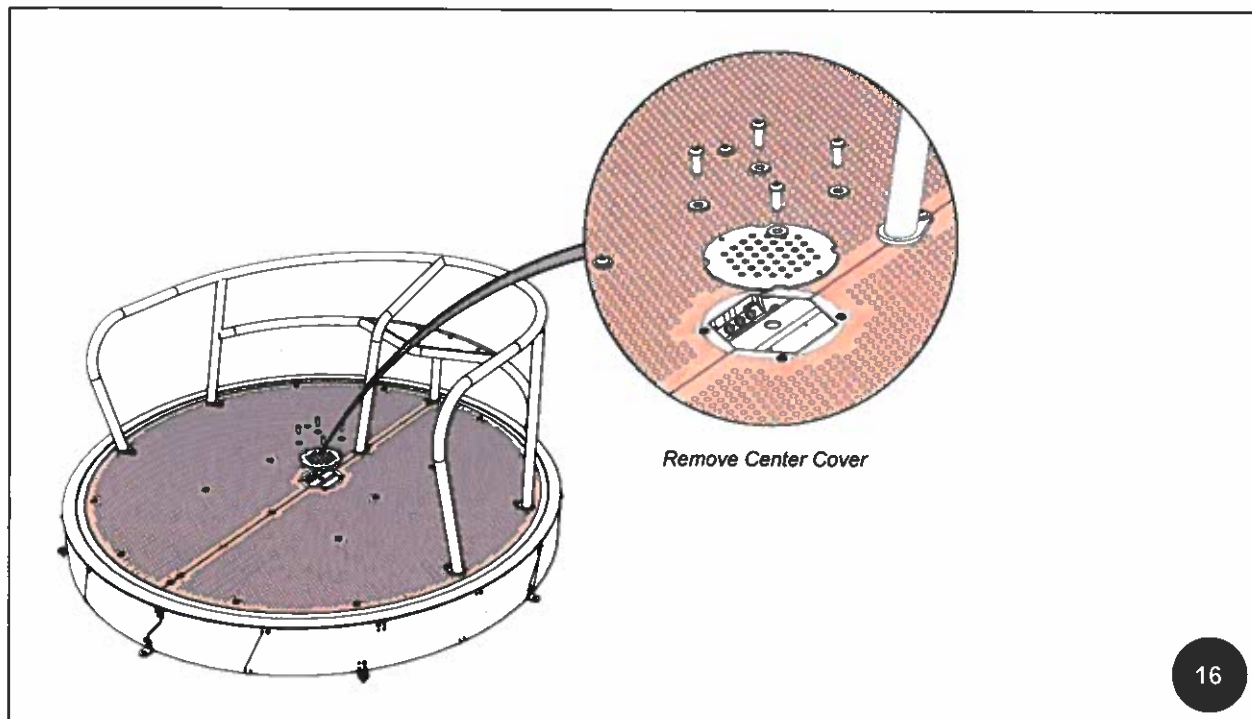
Installation Instructions

Mechanical Adjustment the Outside (Black) Ring Frame



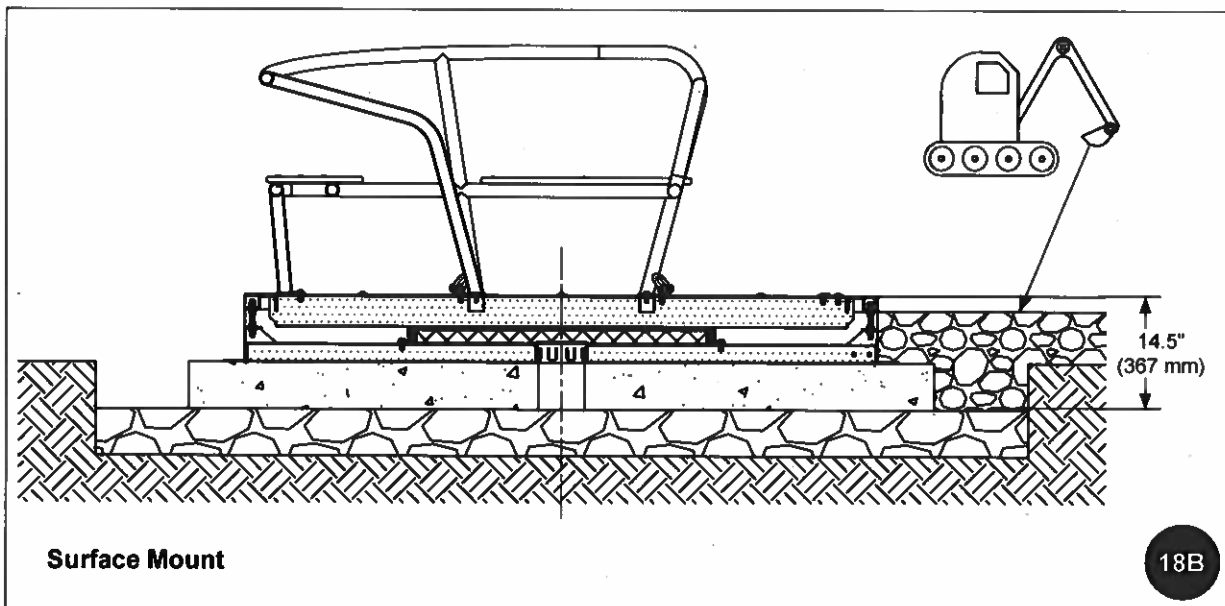
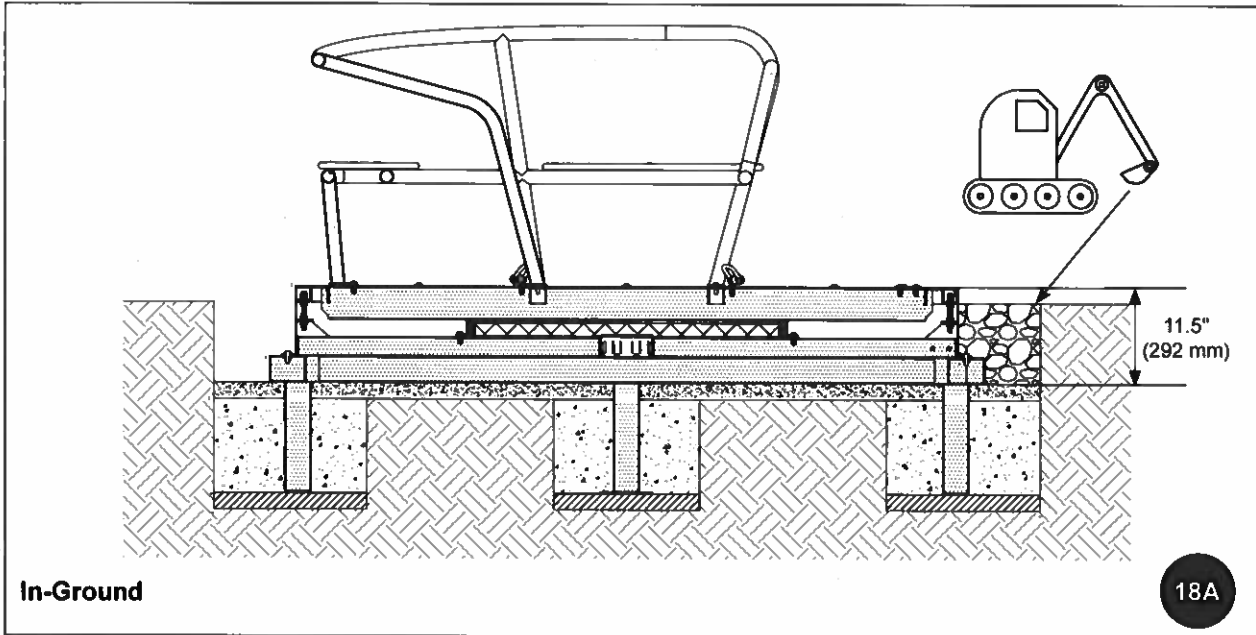
Installation Instructions

Greasing the Bearings



Installation Instructions

Backfill the Footing



Installation Instructions

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intentionally left blank.

Bill of Materials

ZZXX1158 - 305 - 20020348 IN-GROUND

PART NO.	DESCRIPTION	QTY.
200001945	NUT - M10 x 1.5 FEMALE	9
200097726	BOLT - M10 x 1.5 MALE 38 MM	6
AMC0971	ACCESSIBLE WHIRL BASE UNIT	1
AFR2026	FRAME -ACCESSIBLE WHIRL FOOTER	1
AHR0117	HANDRAIL - ACCESSIBLE WHIRL	1
ALB0054	WARNING LABEL FOR ACCESSIBLE WHIRL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	45
BAE1797	BOLT M10 x 1.5 MALE 30 MM	30
BAE0922	TOOL - TT 45 L WRENCH	1
BFC3759	SHEET - .75" x 34.36" x 11.25" SEAT	1
BPM0378	SHEET - 14 GA x 73.78" DIA w/WELD TABS	2
BPM0379	SHEET - 73.62" DIA UPPER FLOOR	2
BPM0380	SHEET - 6.67" DIA UPPER CENTER COVER	1

ZZXX1158S - 305BD - 20020348 - SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
200001945	NUT - M10 x 1.5 FEMALE	5
200097726	BOLT - M10 x 1.5 MALE 38 MM	6
AMC0971	ACCESSIBLE WHIRL BASE UNIT	1
AHR0117	HANDRAIL - ACCESSIBLE WHIRL	1
ALB0054	WARNING LABEL FOR ACCESSIBLE WHIRL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	37
BAE1797	BOLT M10 x 1.5 MALE 30 MM	26
BAE0922	TOOL - TT 45 L WRENCH	1
BFC3759	SHEET - .75" x 34.36" x 11.25" SEAT	1
BPM0378	SHEET - 14 GA x 73.78" DIA w/WELD TABS	2
BPM0379	SHEET - 73.62" DIA UPPER FLOOR	2
BPM0380	SHEET - 6.67" DIA UPPER CENTER COVER	1

*Part Numbers may vary between models so reference the Description for accuracy should this occur.

Equipment Maintenance

Models ZZXX1158, ZZXX1158S 200203481, 305 and 305BD In-Ground and Surface Mount

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 re-installation.
- 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.

Bearings

- Grease bearings at frequent intervals to insure fluid motion of the Whirl. Use of general purpose grease is acceptable.

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.

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. Re-coat area with color-matching paint if required. Drying time is approximately 8 hours between coats.
To repair the floor Eco-Armor coating, contact the Customer Service Department for a coating repair touch-up kit.

Footings

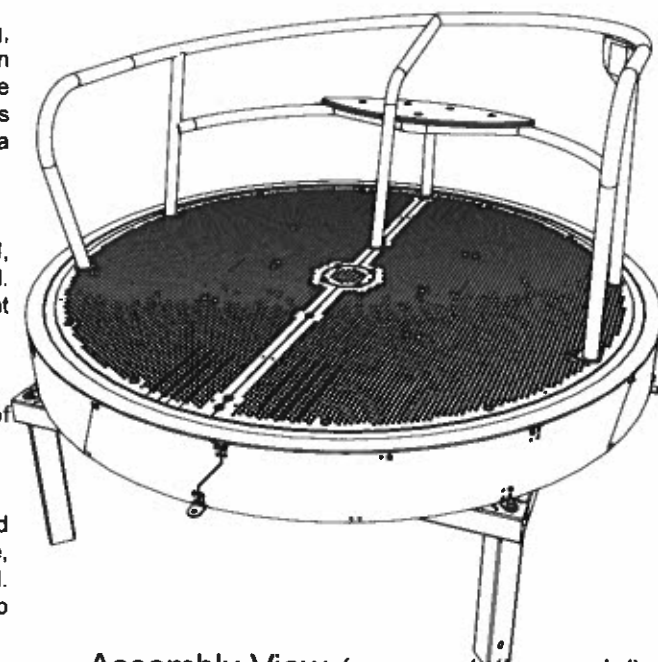
- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Customer Service for a replacement part.



Assembly View (representative model)

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.

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect plastic parts for damage.	Medium			
Inspect unit for smooth and fluid rotation.	Medium			

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__