



# City of Flint

## Department of Purchases & Supplies

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January 13, 2020

TO: All Proposers

FROM: Joyce A. McClane, Purchasing Manager - CPPB

SUBJECT: Addendum #1 – **Proposal #19000553 - "McKinley and Farnumwood  
Playground Installation Services"**

### Notice to All Bidders:

This Addendum is issued to modify, change, delete from, add to, explain or correct the original Request for Proposal and is hereby made a part of it. In case of conflict between the Request for Proposal and this Addendum, this Addendum shall govern. Prime bidders will need to pass the addendum information on to any subcontractors they may be using for this project.

Below please find our answers to the questions from vendors and attached copies of installation guides.

**1) From what account does the City of Flint intend to pay for these services?  
General, finance, approved grant, etc...**

Project is paid for by Community Development Block Grant (CDBG) subcontracted to the Planning & Zoning Division for Park Facility Improvements.

**2) Is the work covered under a Grant? And if so, 1) what is the name of the Grant, 2) who is the awarding agency? And 3) when is the Grant funding set to expire?**

Project is paid for by Community Development Block Grant (CDBG) from U.S. Dept of Housing and Urban Development subcontracted to the Planning & Zoning Division for Park Facility Improvements. The contract for the grant will expire June 30, 2020.



# City of Flint

## Department of Purchases & Supplies

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**3) The equipment has been inadequately stored outside and pieces are covered in overgrowth. The work is being requested to be completed by March 6. Freezing conditions, snow, etc.. could very well inhibit access to the materials. What is the City's plan to deal with this?**

The contractor/firm hired for the project is expected to be able to handle weather related and unique conditions due to the outdoor storage and the winter or early spring installation. This includes collecting the equipment from the outside storage location and installing it on site. Contractor is solely responsible for collecting and transporting equipment. The equipment must be removed from the current storage location by March 6. Equipment must be installed and work invoiced prior to contract end date.

**4) Would it be possible to get the bid documents and specs for the job so that we can Submit a bid for the project?**

**Bid document is online and Installation Manuals are attached as Addendum #1.**

All other bidding terms, requirements, and conditions continue as indicated in the remaining original bid documents.

The Purchasing Manager, Joyce McClane, is an officer for the City of Flint with respect to this RFP. All questions and/or comments should be directed to her at this email address:  
[jmcclane@cityofflint.com](mailto:jmcclane@cityofflint.com).



# City of Flint

## Department of Purchases & Supplies

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In the submission of their proposal, Proposer must acknowledge receipt of this addendum. Proposer shall acknowledge this addendum by signing and returning one copy of this notice with their submission.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City / State / Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**LEAVE BLANK**



**Load: 18-2021**

# ***Installation Manual***

*for your Miracle PlaySystem*

***Please see (Online):***

- [READ ME FIRST](#)
- [CPSC Handbook](#)
- [Install 101 and Hardware Guide](#)

***Inside***

- *Installation Guides*
- *Parts List of every component in your Playsystem*



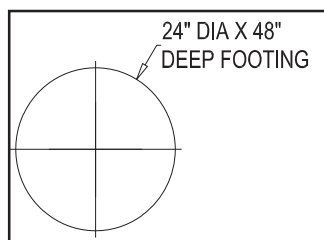
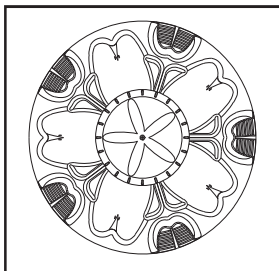
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***CITY OF FLINT  
FLINT, MI  
Work Order: MR00116996***

## Ten Spin

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

Top View



Footing Details

Protective Area: 20' DIA.



**304**

**Ten Spin**

Ten Spin

### TOOLS AND EQUIPMENT REQUIRED

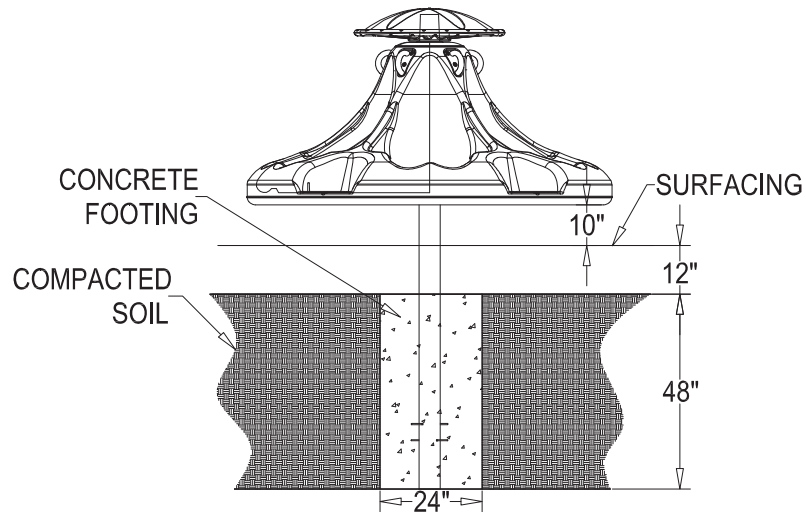
*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4;s, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Step ladder
8. Adult installers - 2 minimum

## Ten Spin

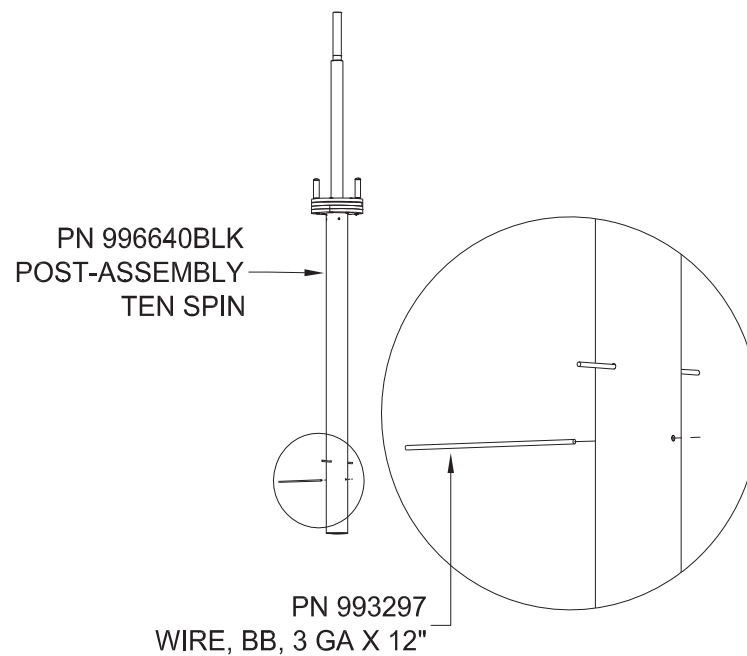
### STEP 1 DIG FOOTING

1a. Refer to *Footing Details* on page 1 and Footing side view below.



### STEP 2 INSERT BB WIRE INTO HOLES IN POST ASSEMBLY

2a. Tap BB Wire into pre-drilled holes in post assembly bottom as shown. Ensure equal amounts of wire protrude on both sides.



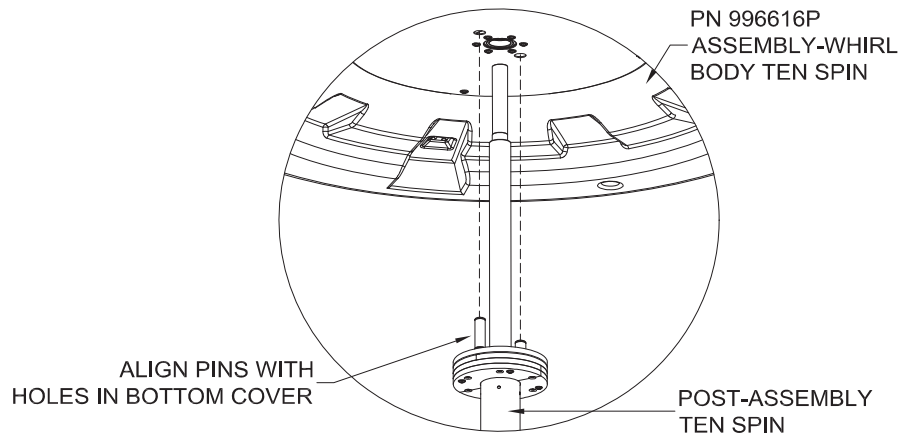
## Ten Spin

### **STEP 3** SET POST INTO FOOTING; BRACE; POUR CONCRETE

3a. Ensure post assembly is braced into footing, level and plumb. Pour concrete and allow to cure for 72 hours prior to completing installation.

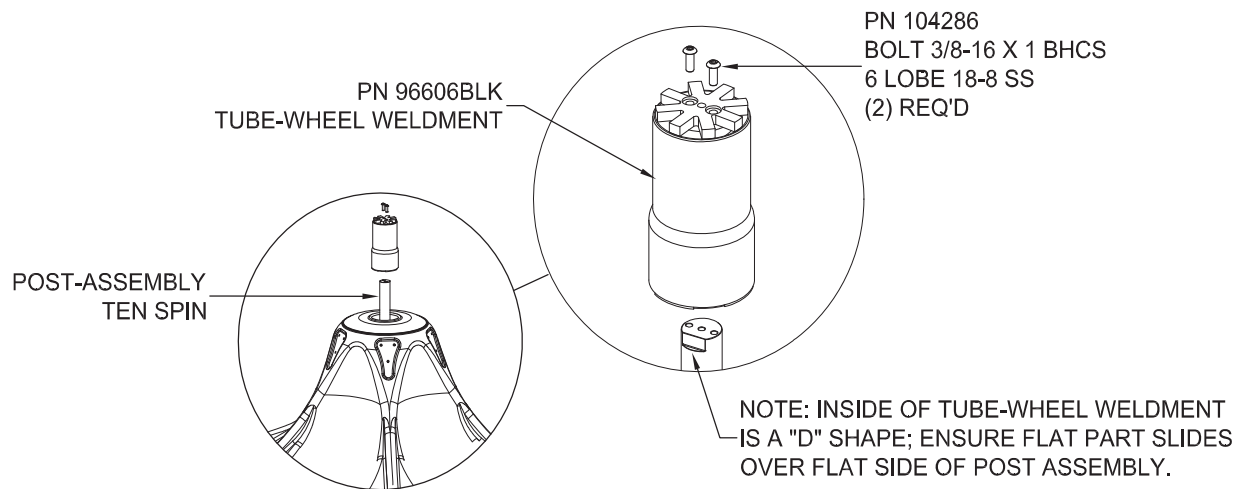
### **STEP 4** ATTACH TEN SPIN ASSY TO POST ASSY

4a. Set Ten Spin assembly onto post assembly; ensure pins on post assembly line up with holes in bottom of Ten Spin assembly.



### **STEP 5** SECURE TEN SPIN TO POST ASSEMBLY

5a. Locate tube-wheel weldment (PN 996606BLK) and set tube atop the post assembly; line up two (2) outer bolt holes on top of post assembly with the two (2) outer bolt holes on tube's top; securely fasten via hardware as shown.



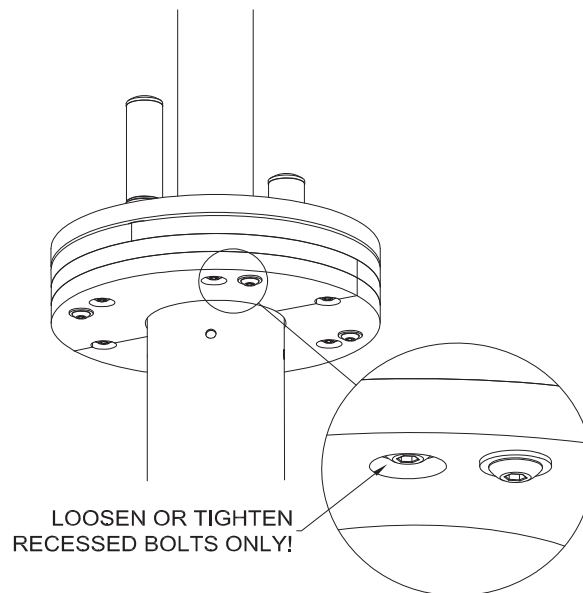
## Ten Spin

### **STEP 6** TEST TEN SPIN OPERATION

6a. Refer to Step 4 graphic on page 3, give Ten Spin a firm push and note number of revolutions; ensure Ten Spin rotates freely, quietly and smoothly.

- **IF, Ten Spin successfully and smoothly rotates 2-3 times** before coming to a complete stop, move ahead to Step 7 on page 6.
- **IF, Ten Spin rotates *LESS* than two (2) times** before coming to a complete stop, locate six (6) recessed bolts on post assembly (shown below in graphic) and *LOOSEN* counter clockwise 1/8th of a turn (45°) in all six (6) recessed bolt locations.
- **IF, Ten Spin rotates *MORE* than three (3) times** before coming to a complete stop, locate six (6) recessed bolts on post assembly (shown below in graphic) and *TIGHTEN* all clockwise 1/8th of a turn (45°) in all six (6) recessed bolt locations.

6b. Retry spinning and continue to adjust as needed for smooth operation.

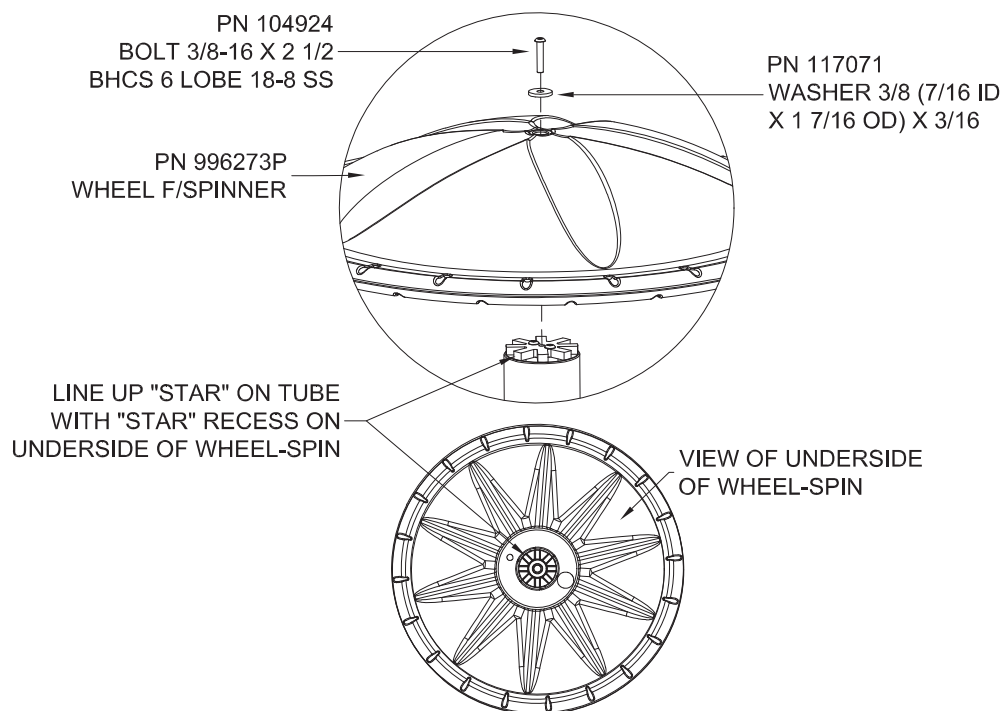


## Ten Spin

### **STEP 7** ATTACH WHEEL-SPIN

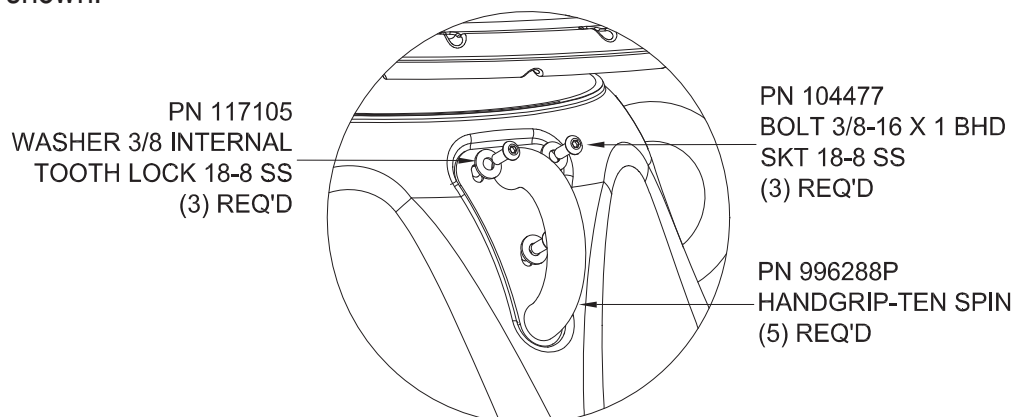
7a. Set wheel-spin atop tube, ensuring "star" arms on tube set into recessed "star" indentations on wheel-spin's underneath side. It is **IMPORTANT** that these line up correctly to create a cog-wheel effect.

7b. Fasten via hardware as shown. Bolt will fasten into center bolt hole on tube.



### **STEP 8** FASTEN HAND GRIPS

8a. Set hand grips into indentations in Ten Spin and attach in three (3) places each as shown.



# Ten Spin

## FINAL STEP

Proceed with **Final Assembly** installation: Ensure all hardware is tightened; use hand grips to turn Ten Spin, ensuring it turns freely; if not, refer back to step 6; install all protective surfacing; apply Miracle and warning labels onto post assembly where they can be easily seen.

### Bill of Material

#### MODEL 304 TEN SPIN

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	996616P	ASSEMBLY-WHIRL BODY TEN SPIN
1	996273P	WHEEL F/SPINNER
1	996640BLK	POST-ASSEMBLY TEN SPIN
1	996618BLK	PARTS CARTON WHEEL TEN SPIN
1	996354P	PARTS CARTON GRIPS TEN SPIN
1	986348	PARTS CARTON - GENERIC AND WARNING LABELS
1	994990	PARTS CARTON - 2-12 LABEL

#### PARTS CARTON 996618BLK

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	996606BLK	TUBE-WHEEL WELDMENT
2	993297	WIRE, BB, 3 GA X 12"
1	HW996618-1	HRDW PKG WHL TN SN S1/1
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	104924	BOLT 3/8-16 X 2 1/2 BHCS 6 LOBE 18-8 SS
2	104930	BOLT 3/8-16 X 1 1/8 BHCS 6 LOBE 18-8 SS
1	117071	WASHER 3/8 (7/16 ID X 1 7/16 OD) X 3/16

#### PARTS CARTON 996354P

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	996288P	HAND GRIP TEN SPIN
1	HW996354-1	HRDW PKG GRP TN SPN S1/1
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
15	104477	BOLT 3/8-16 X 1 BHD SKT 18-8 SS
15	117105	WASHER 3/8 INTERNAL TOOTH LOCK 18-8 SS

## Miracle Timbers

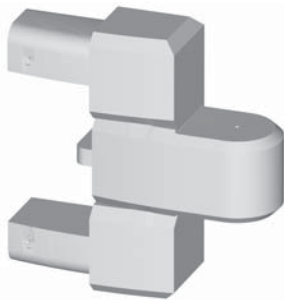
Male & Female Length Adapters, Single & Double Stacked Sections, Timber Opening Kit

***IMPORTANT NOTE:*** *Miracle Timbers are not structural components. They are intended only to contain engineered surfacing for fall zones around playground equipment. They are not intended for retention of soil or heavy backfill.*

### 440 & 440R\*

#### Male Length Adapter

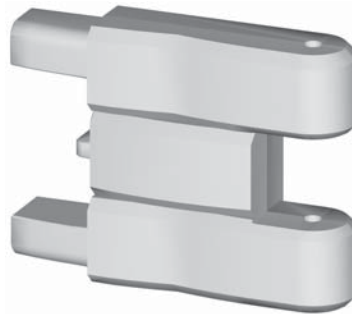
\* Model # 440R Male Length Adapter (Recycled)  
differs in material only.



### 440-1 & 440-1R\*

#### Female Length Adapter

\* Model # 440-1R Female Length Adapter (Recycled)  
differs in material only.



Models used to reduce length of Timber Section(s) when needed to fit closure.

### 440-12 & 440-12R\*

#### Single Timber Section

\* Model # 440-12R Single Timber Section (Recycled)  
differs in material only.



Two (2) Single Timber Sections shown for position.



## Miracle Timbers

### 440-24 & 440-24R\*

#### Double Stacked Timber Section

\* Model # 440-24R Double Stacked Timber Section (Recycled)  
differs in material only.

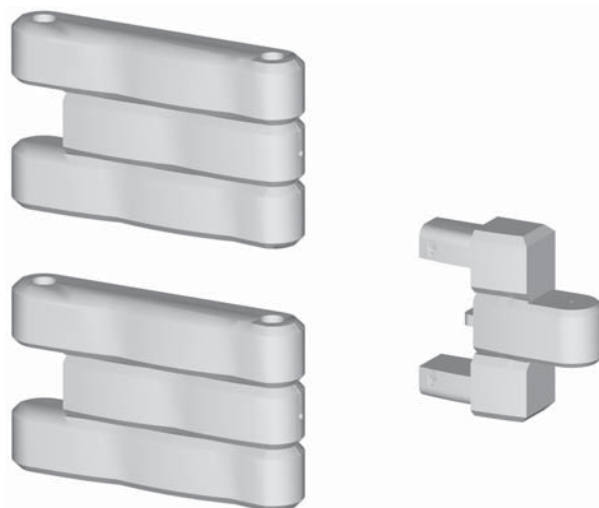


Two (2) Double Stacked Sections shown for position.

### 440-3 & 440-3R\*

#### Timber Opening Kit

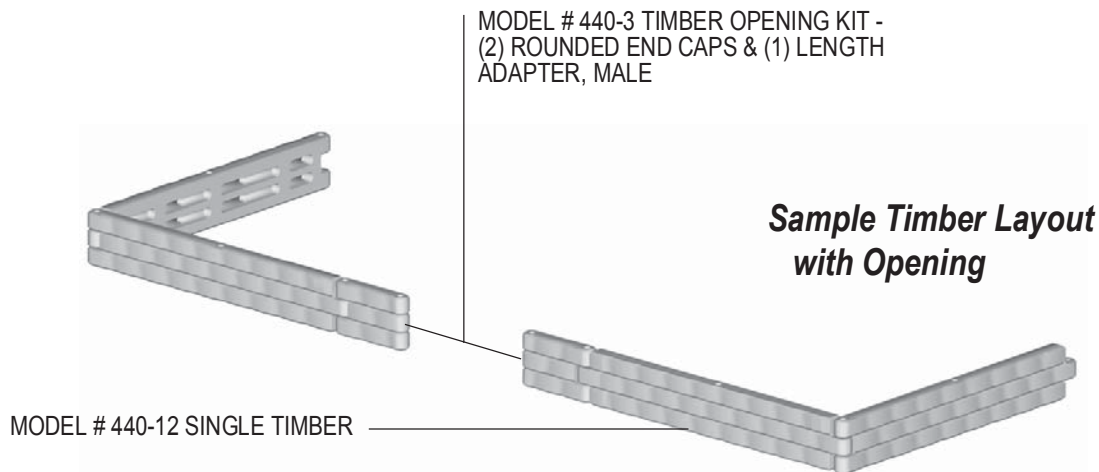
\* Model # 440-3R Timber Opening Kit (Recycled)  
differs in material only.



Model includes two (2) Rounded End Caps and one (1) Male Length Adapter.

# Miracle Timbers

## PARTS IDENTIFICATION



## RECOMMENDED ASSEMBLY SEQUENCE

1. Mark playsystem or playground perimeter (surpassing Use Zone)
2. Position and stake Timbers
3. Length Adapter to close, if required
4. Timber Opening Kit, if required
5. Access Ramp (Model # 440-6 or # 440-6R), if required - per separate instructions
6. Final Assembly

## TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, if required; wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings, if required (spade shovel, post hole digger, auger)
3. Tape measure and level
4. If *Length Adapter* or *Timber Opening Kit* installed: handsaw or hacksaw, screwdriver (battery-powered screwdriver recommended), Phillips head bit
5. Sledge hammer
6. Adult installer

## Miracle Timbers

Installation instructions for **Model # 440-12 (and -12R)** Single Timber Sections and **Model # 440-24 (and -24R)** Double Stacked Timber Sections begin with **Step 1** below.

Instructions for **Model # 440 (and 440R)** and **Model # 440-1 (and 440-1R)** Length Adapters start on **page 7**. Instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin on **page 8**.

### **STEP 1** PREPARE FOR INSTALLATION

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

### **STEP 2** DETERMINE MINIMUM USE ZONE

Refer to "Use Zone" drawing (elsewhere in this Installation Manual) to determine minimum required Use Zone of playsystem or playground. Timbers must be installed to contain entire Use Zone area without touching or impeding area.

Mark or stake Timber Layout, being careful not to overlap Use Zone at any location. Note that at closure location, Timbers may overlap, requiring installation of a *Length Adapter* (Model # 440, # 440R, # 440-1, or # 440-1R.)

**Install Tip:** Generally, if Timbers are intended to contain Use Zone with aid from another barrier (such as building wall, fence, etc.), begin layout at barrier. If Timbers will contain Use Zone without aid of other barriers, starting/ending point is at installers' discretion. Many installers prefer to start layout with Timber Opening (see **Step 8** on **page 8**) or with Access Ramp (Model # 440-6 or # 440-6R) per separate instructions. Many also prefer to "conceal" connection of Length Adapter and Timber by closing at least conspicuous side of playground.

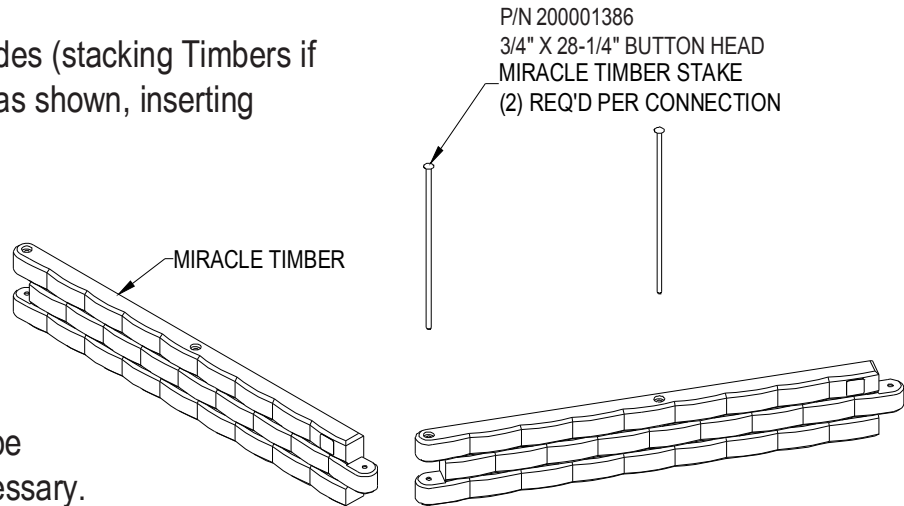
## Miracle Timbers

### STEP 3 POSITION AND STAKE TIMBERS

Set Timbers on ground end-to-end per Layout, with formed "brick" side of Timbers facing outward away from playsystem. See orientation note below.

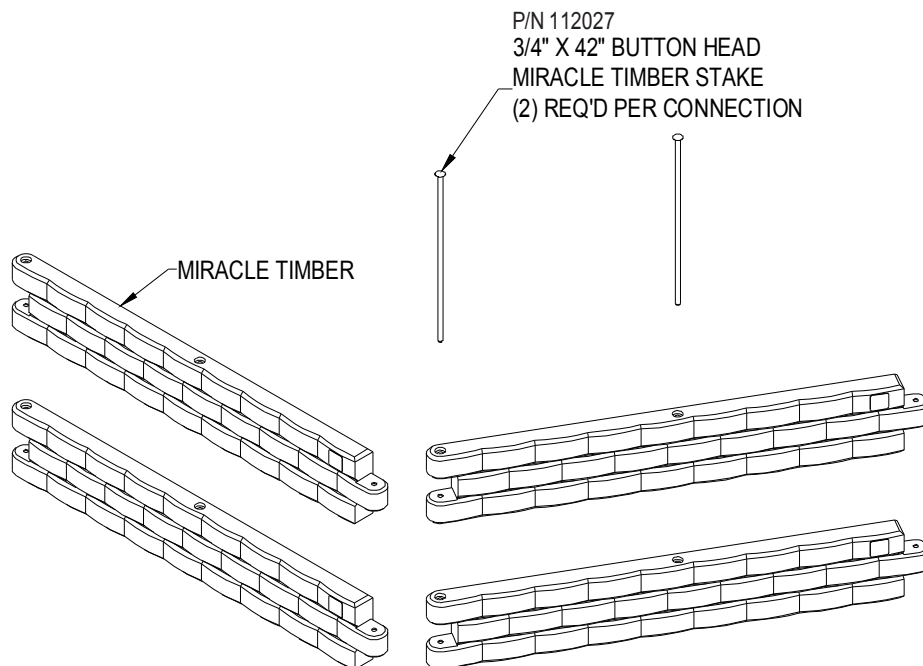
Stand Timbers on their sides (stacking Timbers if necessary) and interlock as shown, inserting Stakes to hold Timbers together in place, but do not yet drive Stakes into ground.

By not driving Stakes into ground at this point, connected Timbers may be repositioned easily if necessary.

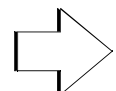


*Note: A molded-in "Miracle logo" on the outside should be oriented upright (legible), and recesses at stake locations must be on top side of top Timber Sections, so that stake heads may be driven flush. Therefore, male ends of Timbers will be on right and female ends on left (when viewed from outside closure.)*

#### CONNECTION FOR SINGLE STACKED EDGES



#### CONNECTION FOR DOUBLE STACKED EDGES



## Miracle Timbers

### **STEP 4** OPTIONAL FOOTINGS

#### **OPTIONAL FOOTINGS FOR TIMBERS AT RISK OF BEING STOLEN OR VANDALIZED:**

*Note: It is generally acceptable to SKIP THIS STEP, unless installation location is characterized by particularly high crime, extreme seclusion, etc.; again, customers' discretion.*

With Timbers loosely connected with Stakes, mark locations of Stakes on ground at interlocking connections. Set Timbers aside and dig footings **8" diameter** by **18" deep** from subgrade.

When all footings are dug, replace and re-connect Timbers two-at-a-time, placing Stake through interlocking connections into footing holes and ensuring Stake heads are flush with Timber edge. Pour concrete to subgrade level at each footing, and verify that Timber sections are plumb and level before proceeding to next set.

***Note: Allow concrete to cure for 72 hours before loading Use Zone with protective surfacing material.***

### **STEP 5** TIMBER CLOSURE, IF POSSIBLE

Verify that Use Zone for playsystem is completely enclosed without intersecting Timber framework at any point, and that Timbers are plumb, level and straight (if desired.)

If Timber framework achieves closure without length adjustment, place remaining Stakes into Timbers and drive so that heads are flush with recessed holes. Proceed to **Final Step**.

If installation of a *Length Adapter* is required to close Timbers, proceed to **Step 6**.

If installing *Timber Opening*, proceed to **Step 8** on **page 8**.

## Miracle Timbers

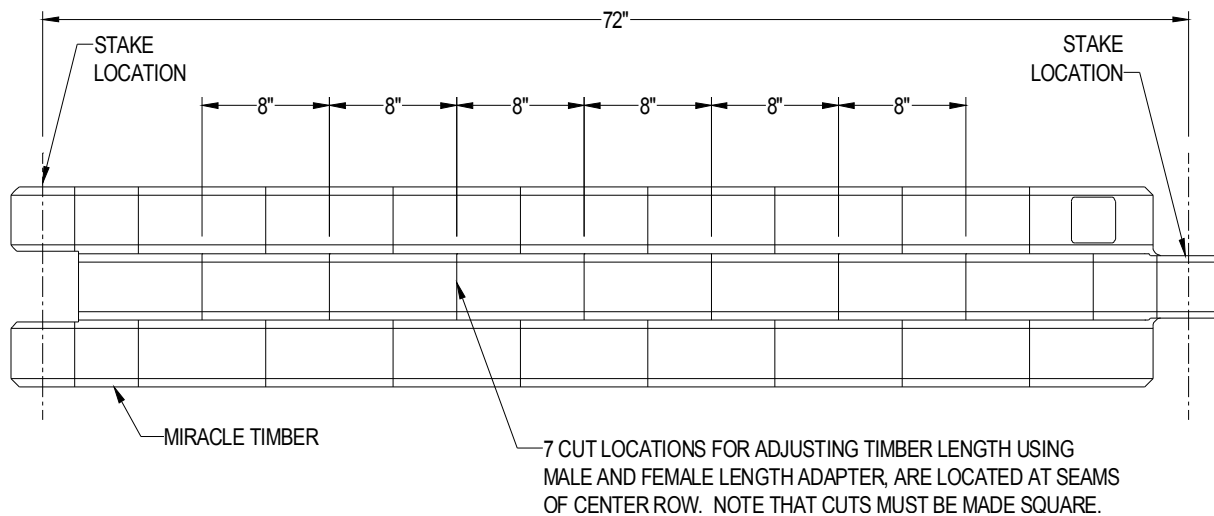
Instructions for **Model # 440 (and 440R)** and **Model # 440-1 (and 440-1R)** Length Adapters start with **Step 6** below.

Installation instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin on **page 8**.

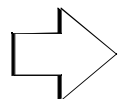
### **STEP 6** CUT TIMBERS FOR CLOSURE, IF NECESSARY

If length of final Timber requires adjustment to achieve framework closure, measure overlap between two Timbers, accounting for width of Male or Female Length Adapter to be installed, and use illustration below to determine location of cut. Each Timber contains seven (7) cut locations, based on seams of center row. Cuts must be made square for Length Adapter to fit properly and for good appearance.

**Note: Installers must cut at location shown or Length Adapter will not fit!**



Length between outer Stakes (at interlocking connections) is **72"**. Timber lengths that can be made using Length Adapters are **64", 56", 48", 40", 32", 24"** and **16"**.

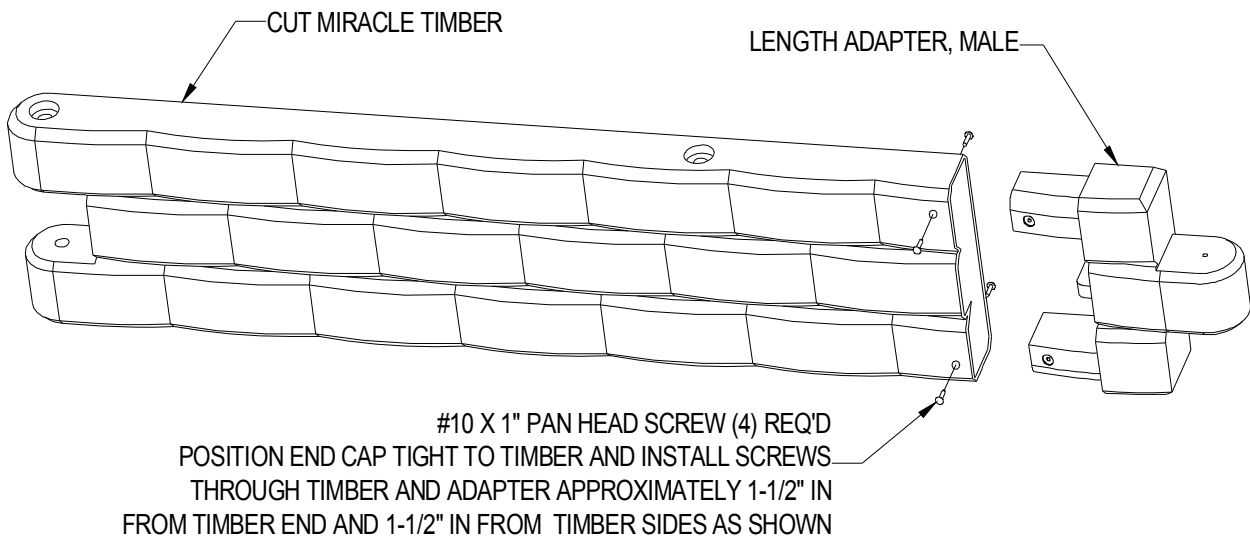


## Miracle Timbers

### **STEP 7** INSERT LENGTH ADAPTER, IF NECESSARY

Cut Timber squarely at location determined in **Step 6**. Insert Length Adapter in open end of Timber, and use power screwdriver to secure with pan head screws as shown below.

Insert Timber/Length Adapter assembly into final Timber to close framework. Insert Stake and drive until head is flush with top of Timber. Proceed to **Final Step**.



Installation instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin with **Step 8** below.

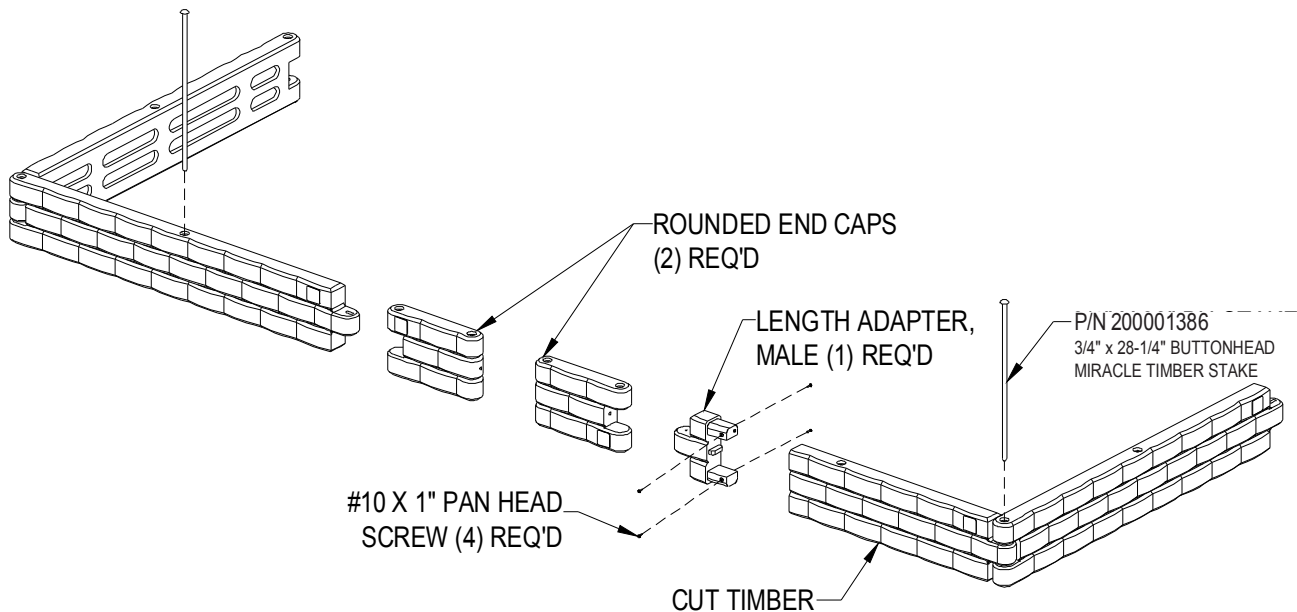
### **STEP 8** TIMBER OPENING KIT, IF REQUIRED

Determine desired location of Timber Opening in framework. Miracle recommends a minimum opening width of **36"**.

Refer to illustration on next page. Timber Opening Kit contains three (3) pieces: two (2) Rounded End Caps with one rounded end and one female end, and one (1) Length Adapter - Male, used to give a Single Timber section two male ends rather than one.

Position one End Cap against Timber section and place Stake into interlocking connection (without fully driving into ground.) Measure **36"** or greater from round surface of End Cap to create opening, place round end of second End Cap at mark, and temporarily stake as before.

## Miracle Timbers



### **STEP 9** CUT TIMBER, IF NECESSARY

Refer to *Length Adapter* installation instructions in **Step 6** and **Step 7**.

Measure from end of Single Timber, accounting for width of Length Adapter, and determine location to cut. Cut Timber squarely, insert Length Adapter into open end, and secure to Timber with pan head screws as shown in **Step 7**.

### **STEP 10** PLUMB AND LEVEL TIMBERS; INSERT STAKES INTO END CAPS

Position second Rounded End Cap onto attached Length Adapter, and verify Timbers and opening pieces are plumb, level and straight (if desired.) Insert and drive Stakes (two each) in both End Caps until heads are flush with top of Timber.

### **FINAL STEP**

Verify that concrete is fully cured (if applicable) and that all Stakes are driven until flush with top of Timbers. Fill enclosure with protective surfacing material. Proceed with **Final Assembly** installation.



# Bill of Materials

## Miracle Timbers

QUANTITY	PART NO.	DESCRIPTION
<b>MODEL # 440 MALE LENGTH ADAPTER</b>		
1	985385P	MALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440R MALE LENGTH ADAPTER (RECYCLED)</b>		
1	985385RE	END CAP-MIRACLE TIMBER (RECYCLED BLACK)
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-1 FEMALE LENGTH ADAPTER</b>		
1	988778P	FEMALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-1R FEMALE LENGTH ADAPTER (RECYCLED)</b>		
1	988778RE	FEMALE LENGTH ADAPTER-MIRACLE TIMBER RE
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-12 SINGLE TIMBER SECTION</b>		
1	112602P	MIRACLE TIMBER
<b>MODEL # 440-12R SINGLE TIMBER SECTION (RECYCLED)</b>		
1	112602RE	TIMBER REGRIND
<b>MODEL # 440-24 DOUBLE-STACKED TIMBER SECTION</b>		
2	112602P	MIRACLE TIMBER
2	112027	STAKE 42" GALV FOR 24" HIGH KID TIMBER
<b>MODEL # 440-24R DOUBLE-STACKED TIMBER SECTION (RECYCLED)</b>		
2	112602RE	TIMBER REGRIND
2	112027	STAKE 42" GALV FOR 24" HIGH KID TIMBER

Miracle Timbers

440, 440R, 440-1, 440-1R, 440-12, 440-12R, 440-24, 440-24R, 440-3, 440-3R

## Miracle Timbers

QUANTITY	PART NO.	DESCRIPTION
<b>MODEL # 440-3 TIMBER OPENING KIT</b>		
1	985385P	MALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON (SEE BELOW FOR CONTENTS)
2	986101P	ROUNDED END CAP - MIRACLE TIMBER
3	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH KID TIMBER
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-3R TIMBER OPENING KIT (RECYCLED)</b>		
1	985385RE	END CAP-MIRACLE TIMBER (RECYCLED BLACK)
1	985429	PARTS CARTON (SEE BELOW FOR CONTENTS)
2	986101RE	ROUNDED END CAP - MIRACLE TIMBER RECYCLE
3	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH KID TIMBER
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD

Miracle Timbers

440, 440R, 440-1, 440-1R, 440-12, 440-12R, 440-24, 440-24R, 440-3, 440-3R

## Access Ramp for Miracle Timbers

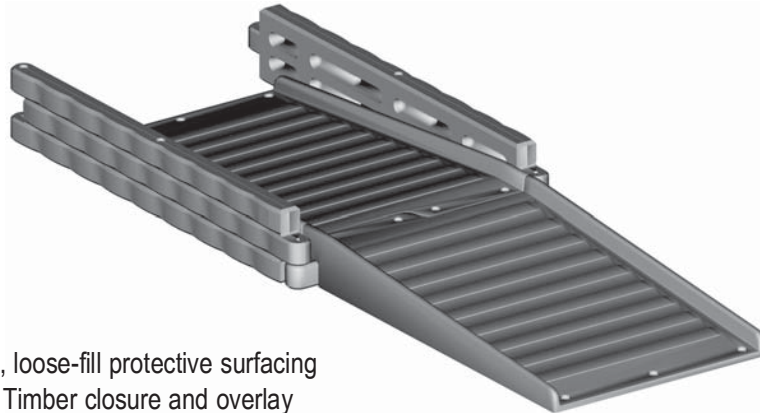
**Access Ramp for Miracle Timbers** including (2) Ramp Sections,  
(1) Single Timber (regular), (1) Single Timber With Two Male Ends, and (13) Stakes

***IMPORTANT NOTE:*** *Miracle Timbers are not structural components. They are intended only to contain engineered surfacing for fall zones around playground equipment. They are not intended for retention of soil or heavy backfill.*

**440-6 and 440-6R\***

### Access Ramp for Miracle Timbers

\* Model # 440-6R Access Ramp (Recycled) for Miracle Timbers differs in material only. Installation is identical.



Upon installation, loose-fill protective surfacing material must fill Timber closure and overlay enclosed section of Access Ramp to apex level. See detail in Final Step.

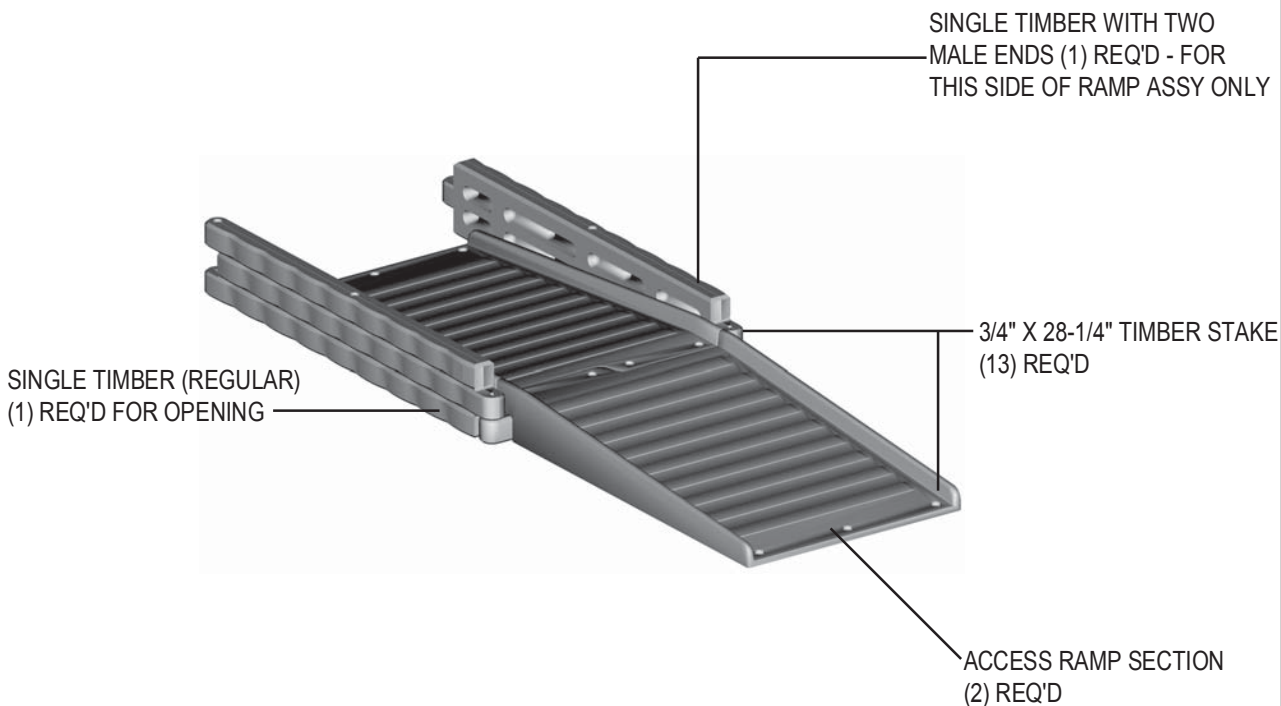
## TOOLS AND EQUIPMENT REQUIRED

Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"

1. Tape measure and level
2. Sledge hammer
3. Adult installer

## Access Ramp for Miracle Timbers

### PARTS IDENTIFICATION



### STEP 1 LAYOUT & STAKE TIMBER CLOSURE

**NOTE:** Ramp may be installed as a 6' ramp extension or a 12' ramp extension. For instructions on installing a 6' Ramp, see Step 2. For instructions on installing a 12' Ramp, see Step 3.

Install playsystem and pour concrete for footings. Layout and stake Timber closure per separate instructions. Refer to **Miracle Timbers** installation (# 440 et. al.) Ramp width requires **40"** opening in Timber closure.

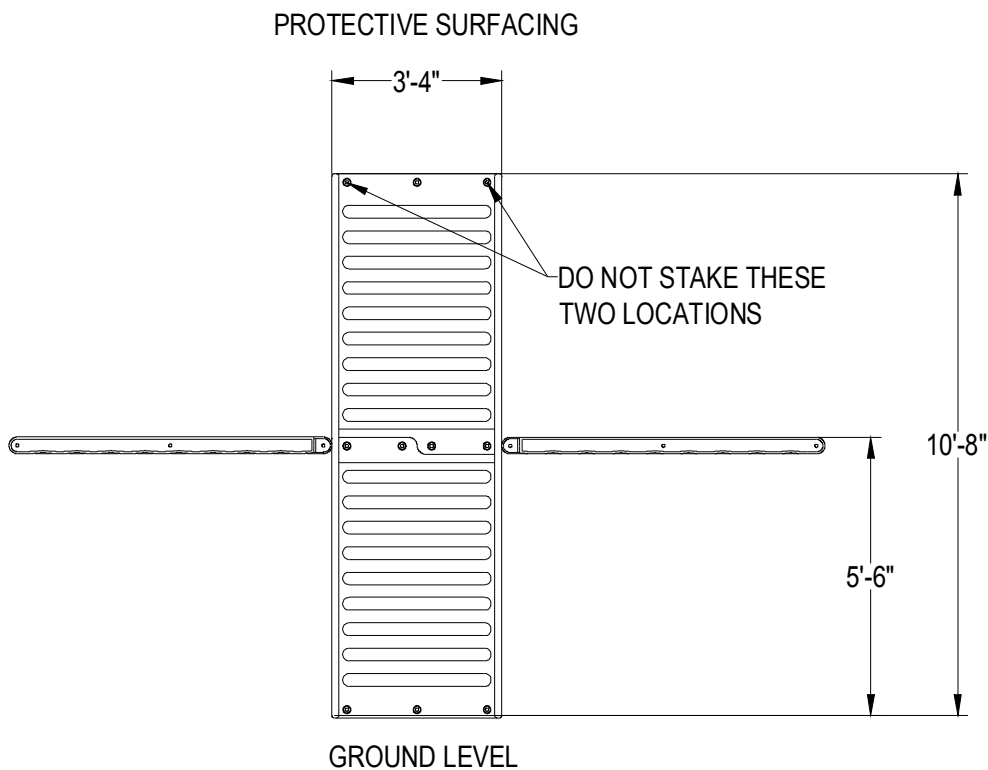
## Access Ramp for Miracle Timbers

### STEP 2 CREATE 6' RAMP EXTENSION

See Parts ID on page 2. Position interlocking Ramp Sections together between Single Timbers. Align mounting stubs on Ramp sides with holes in male ends of Single Timbers.

Attach Single Timber (regular) and Single Timber With Two Male Ends at midpoint of Ramp Sections. *Ensure Ramp does not intersect with equipment safety zones.*

Drive stakes through mating holes in Ramp Sections, through holes at ends of Ramp Sections, and through male ends of Timbers and mounting stubs of Ramp Assembly.



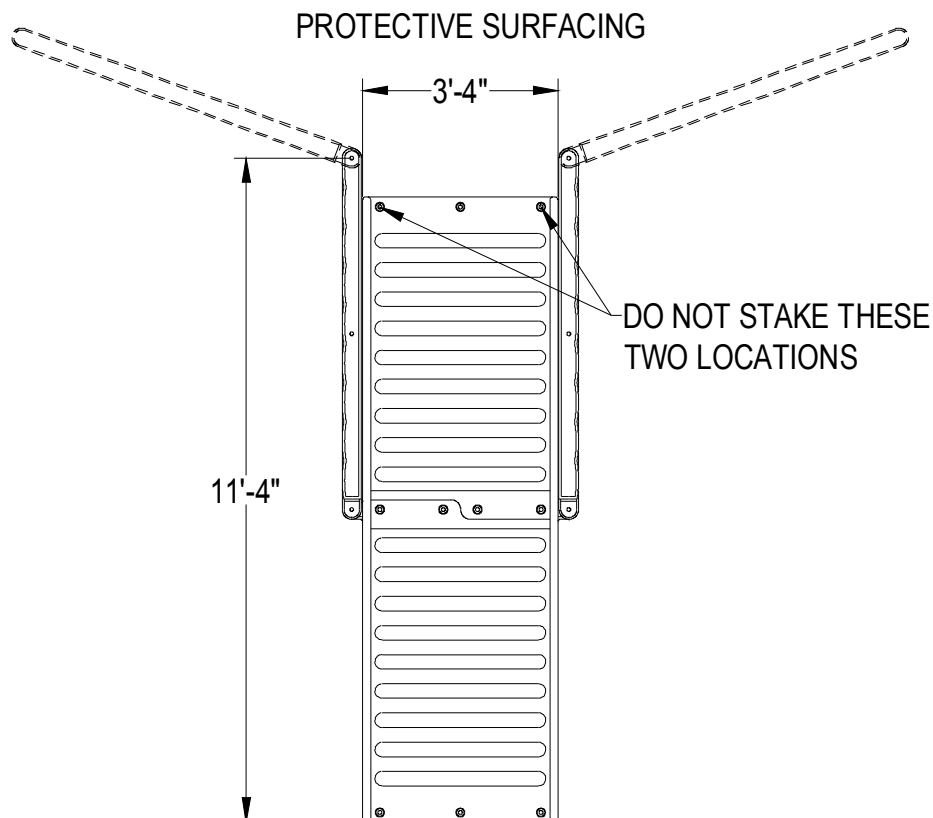
## Access Ramp for Miracle Timbers

### STEP 3 CREATE 12' RAMP EXTENSION

Attach Single Timber (regular) and Single Timber With Two Male Ends to closure at opening, parallel with each other, with 40" span between inner surfaces for Ramp Sections.

See Parts ID on page 2. Position interlocking Ramp Sections together between Single Timbers. Align mounting stubs on Ramp sides with holes in male ends of Single Timbers. *Ensure Ramp does not intersect with equipment safety zones.*

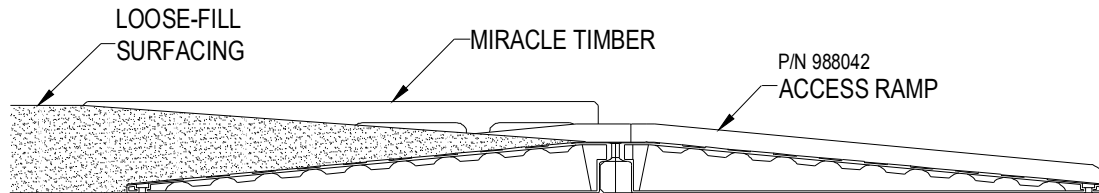
Drive stakes through mating holes in Ramp Sections, through holes at ends of Ramp Sections, and through male ends of Timbers and mounting stubs of Ramp Assembly.



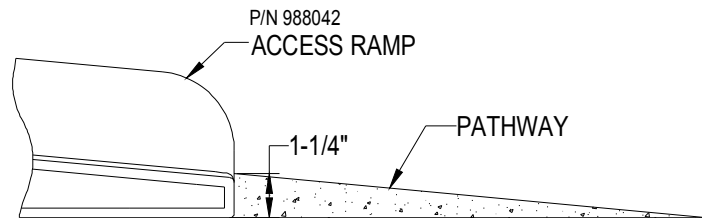
## Access Ramp for Miracle Timbers

### FINAL STEP

Proceed with **Final Assembly installation**. Fill Timber closure with loose-fill surfacing. Allow protective surfacing materials to gradually slope downward until they meet Access Ramp's apex as shown in "cut-away" side view.



**Note: Leading edge of Ramp is 1-1/4" high. Pathway must be constructed to meet this edge at same height. Pathway and loose-fill surfacing must meet ADA standards for wheelchair access.**



## Bill of Materials

QTY	PART #	DESCRIPTION
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### MODEL # 440-6 ACCESS RAMP FOR MIRACLE TIMBERS

2	988042P	ACCESS RAMP-MIRACLE TIMBERS
11	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH TIMBER
1	112602P	MIRACLE TIMBER
1	988103P	MIRACLE TIMBER WITH TWO MALE ENDS

### MODEL # 440-6R ACCESS RAMP FOR MIRACLE TIMBERS (RECYCLED)

2	988042BK	ACCESS RAMP-MIRACLE TIMBERS (RECYCLED BK)
11	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH TIMBER
1	112602RE	TIMBER REGRIND
1	988103RE	MIRACLE TIMBER WITH TWO MALE ENDS

## Physics™ JAX® Pack - Three

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**



**477-003**  
**JAX Pack - Three**

Protective Area: 22' x 23'

### TOOLS AND EQUIPMENT REQUIRED

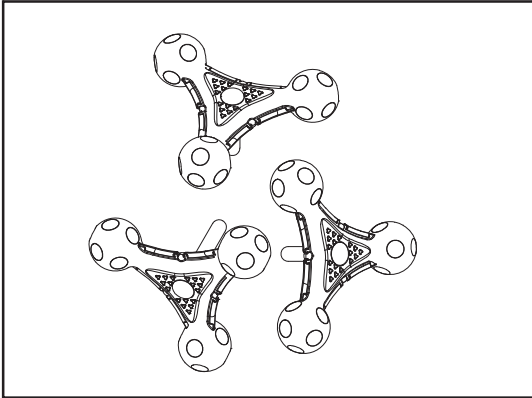
*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Adult installers - 2 minimum

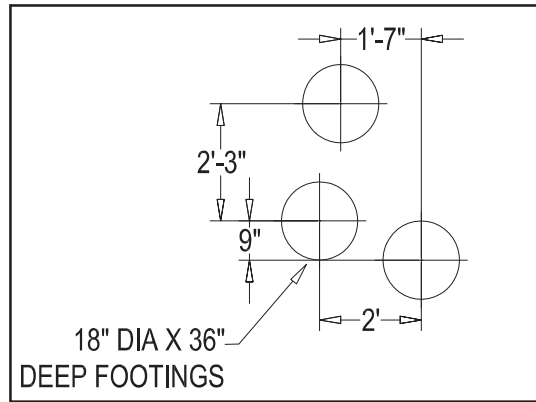


# Phyzics™ JAX® Pack - Three

Top View

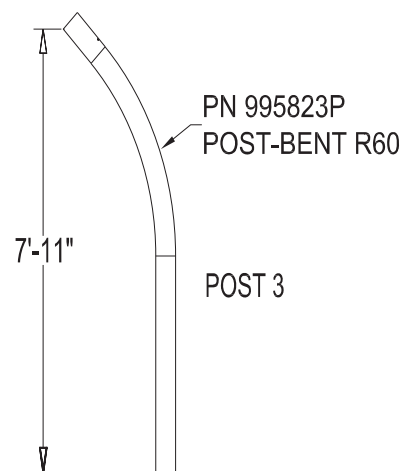
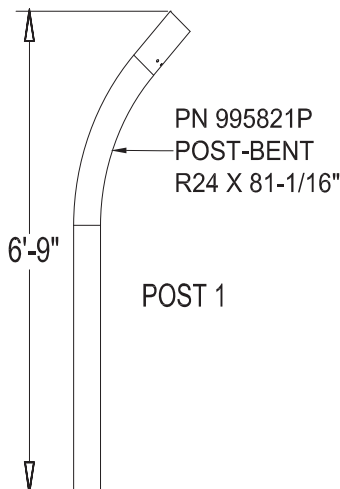
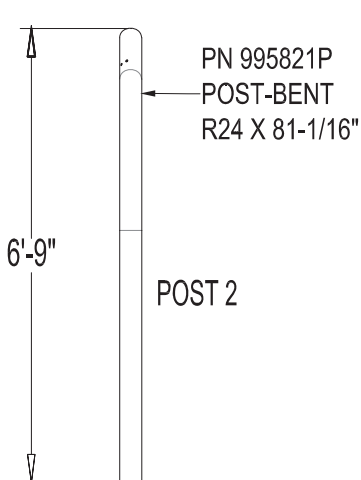


Footing Layout



## **STEP 1** IDENTIFY POST AND BASE SUPPORT CLOCKING

- 1a. The success of the JAX Pack-Two installation is based on proper post identification and base support clocking.
- 1b. It is important to note that Post 1 and Post 2 are *THE SAME POST*, however, they have two (2) sets of holes drilled in them for base support installation and are placed in footings at different angles.



## Physics™ JAX® Pack - Three

### STEP 2 DIG FOOTINGS; AFFIX SURFACING LABEL

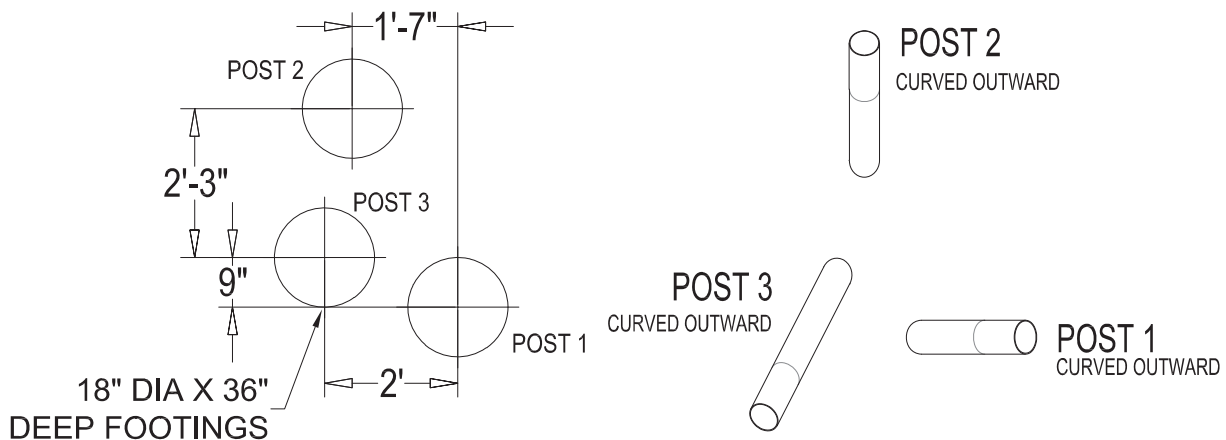
2a. Dig Footings per *Footing Layout* or Construction Drawings. Refer to **Footing Details installation** located behind *Installations 101* in Installation Manual.

2b. Measure up **48"** from bottom of Post 3 and place "Top of Surfacing" label at this location.

*Note: Do not pour concrete until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*

### STEP 3 DETERMINE CORRECT POST PLACEMENT

3a. Jax posts **MUST** be placed into footings as shown below. Loosely set posts into footings in approximate positions, reference step 1 on page 2.



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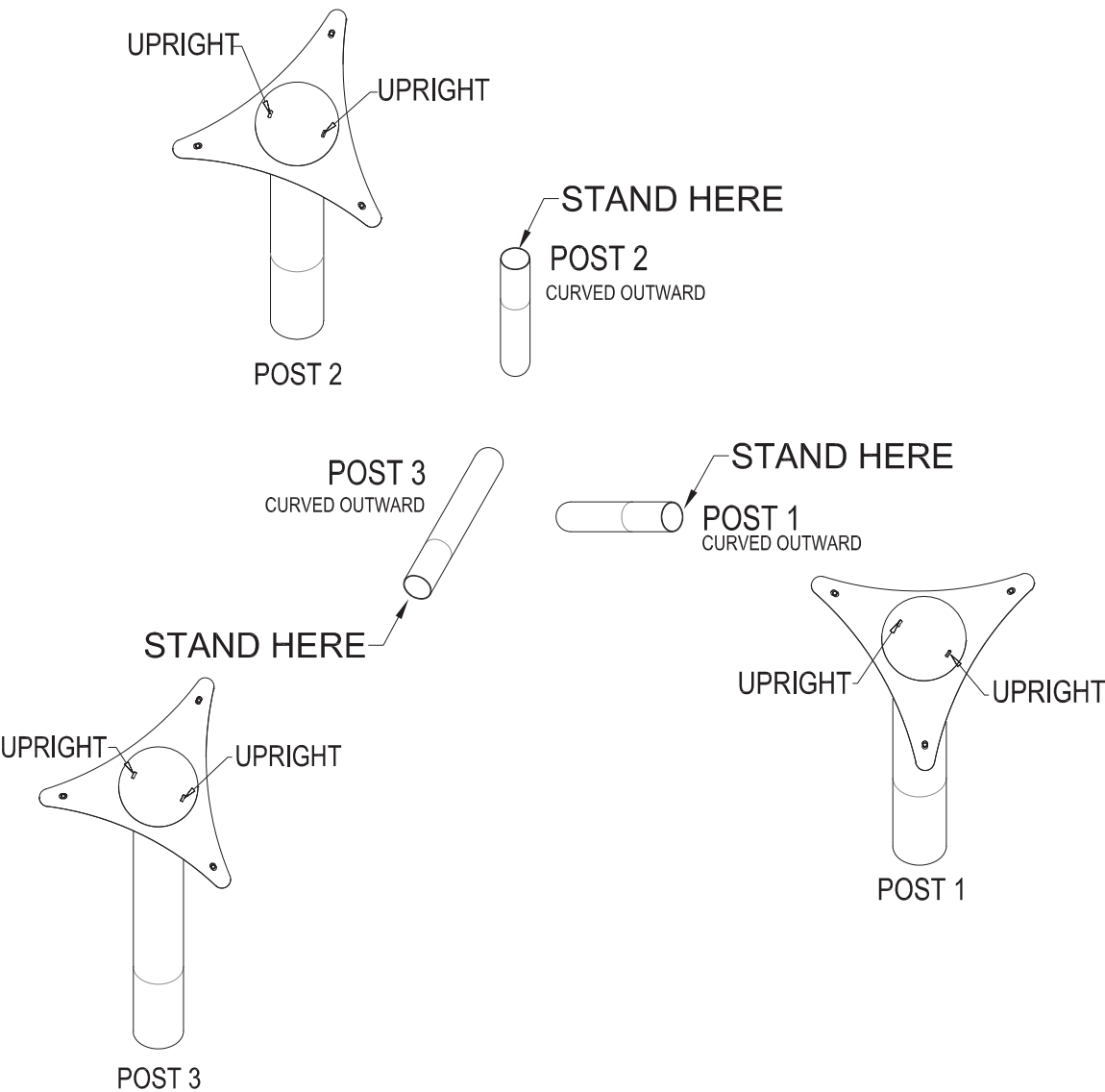
# Physics™ JAX® Pack - Three

## STEP 4 DETERMINE CORRECT BASE SUPPORT CLOCKING

4a. The following graphics show correct base support clocking. Graphics show clocking as if you were standing with each post's curve **FACING** you.

*Note: Proper clocking is based on base support uprights, which will DIRECTLY correspond with notches in each Jax.*

*Important Note: DO NOT attach base support to post until clocking is correct!*

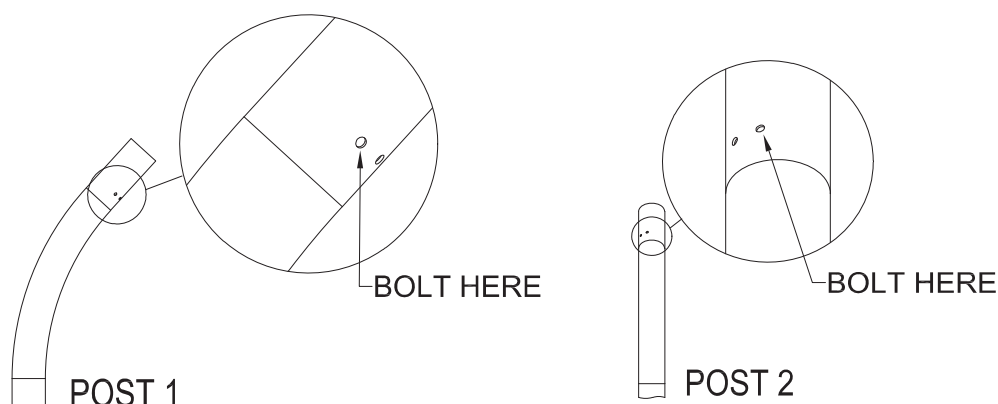


# Physics™ JAX® Pack - Three

## STEP 5 BOLT BASE SUPPORT TO POSTS

5a. Once proper clocking is determined, slide base support over post and line up bottom bolt hole in base support uprights with hole in post.

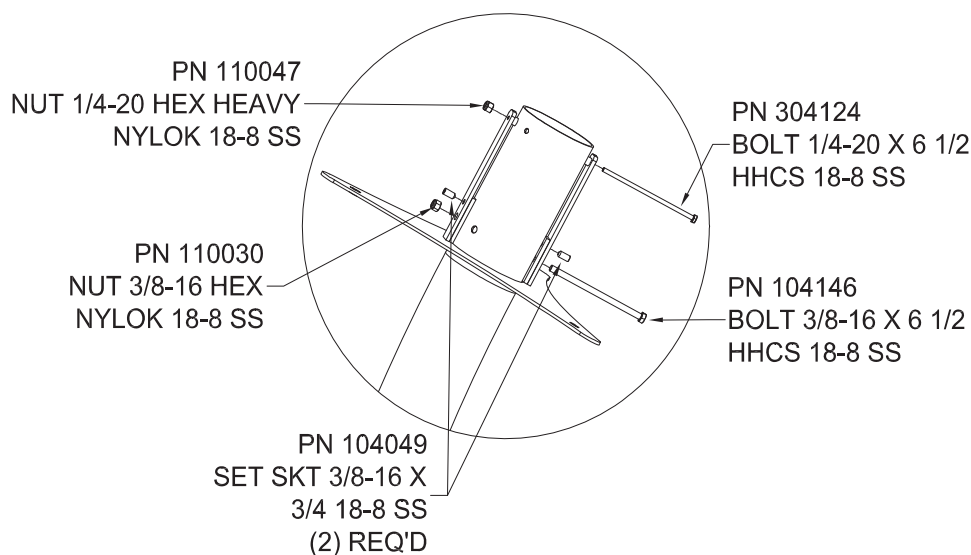
*Important Note: Post 1 and 2 have different bolting locations. See illustrations below prior to installing hardware!*



5b. Secure base support to post, with bolts, in both posts as shown above. Verify correct bolt is used for each hole, as shown below.

5c. Insert set screws in holes above bottom bolt and secure uprights to post.

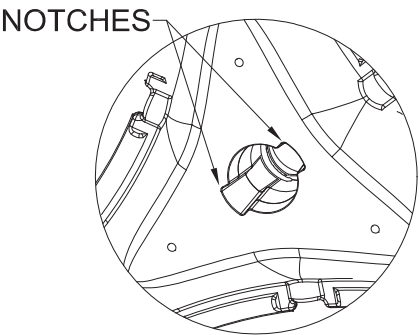
*Note: Do not overtighten!*



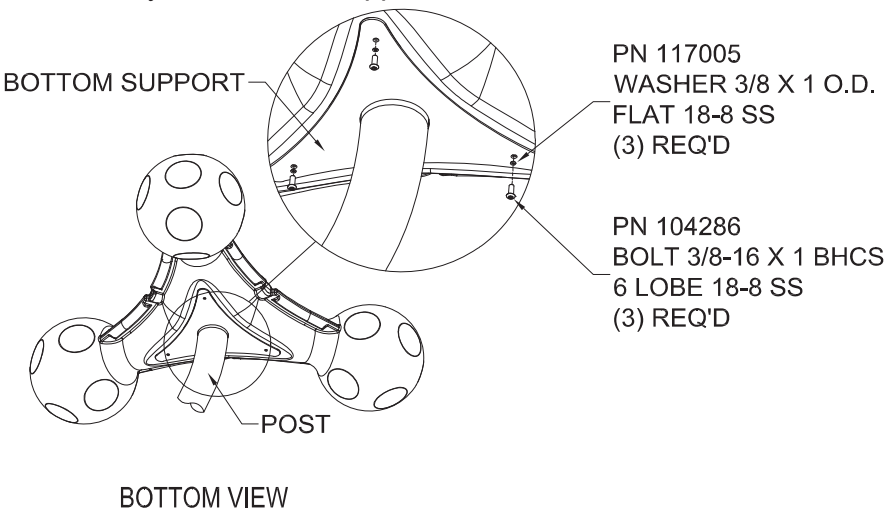
# Physics™ JAX® Pack - Three

## STEP 6 INSTALL JAX ON BASE SUPPORT

6a. Set Jax on bottom support, with uprights aligned with notches, in Jax body and the support plate aligned with recess on bottom of Jax body.



6b. Fasten Jax body and bottom support as shown below.



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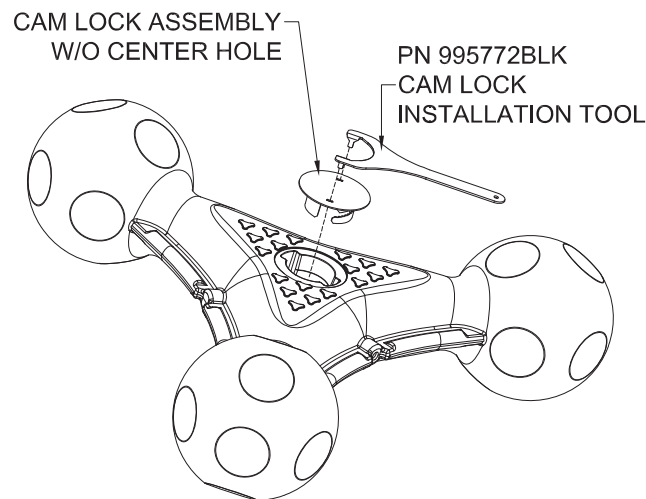
## Physics™ JAX® Pack - Three

### **STEP 7** INSERT AND TIGHTEN CAM LOCK ASSEMBLY

7a. Set cam lock assembly into recess in top of Jax; align slots in cam lock assembly with spacers on base support uprights (attached in step 5).

7b. Turn cam lock assembly clockwise until firmly secure. Do not overtighten.

*Note: Keep lock installation tool for future tightening.*



### **FINAL STEP**

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

*Important Note: Prior to pouring concrete ensure there is a minimum of 10" between all Jax surfaces! Pour concrete and allow to cure for 72 hours prior to allowing play.*

Phyzics™  
**JAX® Pack - Three**

## Bill of Materials

### MODEL 477-003

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
2	995821P	POST-BENT R24 X 81-1/16"
1	995823P	POST-BENT R60
1	995543P	JAX 1 HOLE
1	995543P	JAX 1 HOLE
1	995543P	JAX 1 HOLE
3	995640P	SUPPORT ASSEMBLY - CENTER HOLE
1	116048	LABEL, 2"X2" WHIT POLYESTER THERMAL
1	116049	LAMINATE, CLEAR, 2"X2" W/PERMANENT
1	999033P	PARTS CARTON - TOUCH-UP PAINT-POST
3	912289P	PARTS CARTON FOR 995543 TOP OF POST
1	996031	PARTS CARTON - JAX INSTALLATION TOOLS

### PARTS CARTON 912289P

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
1	995645P	CAM LOCK ASSEMBLY W/O CENTER HOLE
1	HW912289-1	HRDW PKG F/JAX PSTTP S1/1

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
3	104286	BOLT 3/8 -16 X 1 BHCS 6 LOBE 18-8 SS
3	117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS
1	104146	BOLT 3/8 -16 X 6 1/2 HHCS 18-8 SS
1	110030	NUT 3/8 -16 HEX NYLOK 18-8 SS
2	104049	SET SKT 3/8-16 X 3/4 18-8 SS
1	304124	BOLT 1/4-20 X 6-1/2 HHCS 18-8 SS
1	110047	NUT 1/4-20 HEX HEAVY NYLOK 18-8 SS
1	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS

### PARTS CARTON 996031

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
1	995772BLK	CAM LOCK INSTALLATION TOOL

## Risk Management Sign

**IMPORTANT!** The Risk Management Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side faces the main entrance to the playground** and next to but not interfering with the accessible route that leads to the play space.

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note: English version shown.



## Risk Management Sign

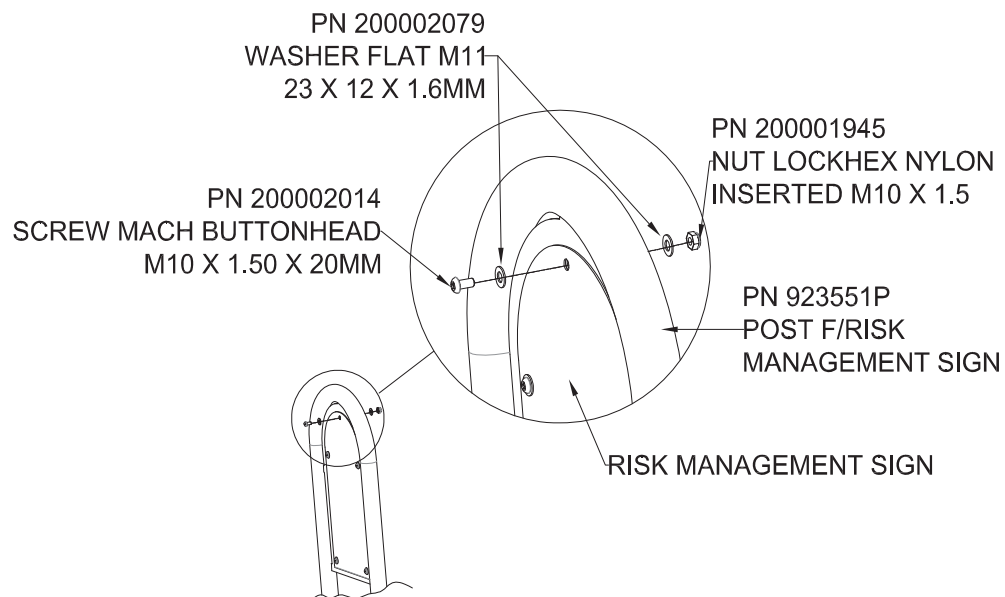
### STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



### STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

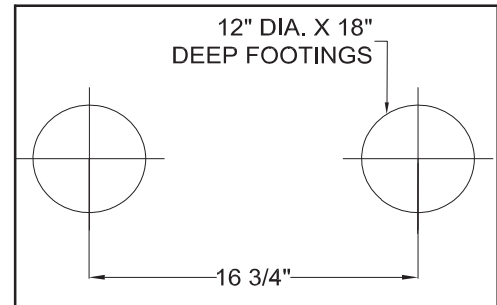


## Risk Management Sign

### STEP 3 DIG FOOTINGS

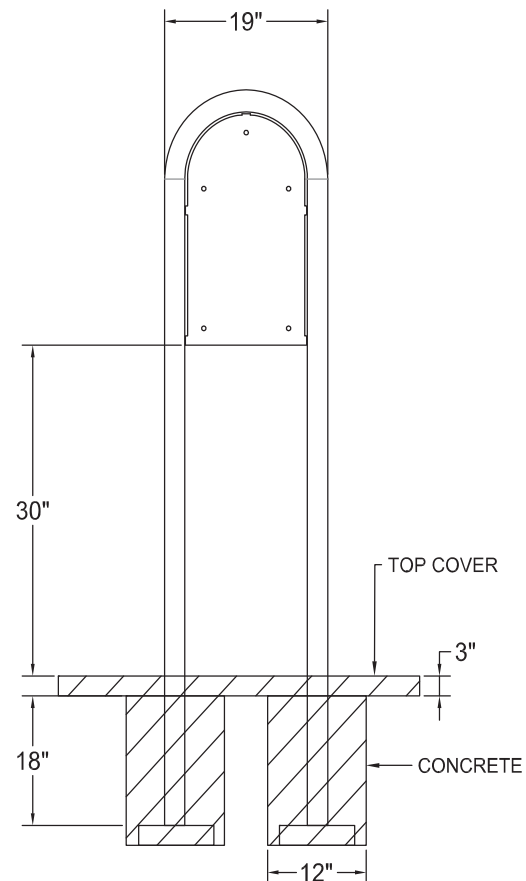
- 3a. Dig footings per *Footings Layouts*, Construction Drawings, and **Footings Details** installation.

*Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*



### STEP 4 SET SIGN IN FOOTINGS

- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per Construction Drawings pour concrete; plumb sign in footings and brace in position until concrete is cured.



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

# Risk Management Sign

## Bill of Material

### Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH

### Parts Carton 923560

1	923287	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH

### Parts Carton 923558

1	923288	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH

### Parts Carton 923559

1	923289	RISK MNGT SIGN PRINTED SPANISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

## Surfer®

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

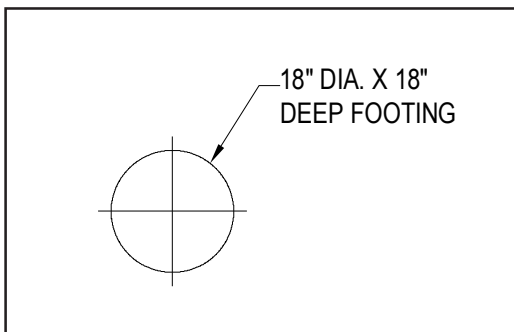
<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
946-1	Surfer, Freestanding	1

### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in 'Installations 101'*

1. Digging equipment for footing hole (spade shovel, post hole digger, auger)
2. Concrete for footing, wheelbarrow or mixer, 5 gallon bucket, water supply
3. Drill, 3/8" masonry drill bit, extension cords, power supply
4. Rubber mallet
5. Tape measure and level
6. Open end wrenches, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
7. Pen, pencil or marker
8. Adult installers - 2 minimum

### FOOTING LAYOUT:



**946-1**

**Surfer, Freestanding**



## Coil Spring Rider

Rev. D

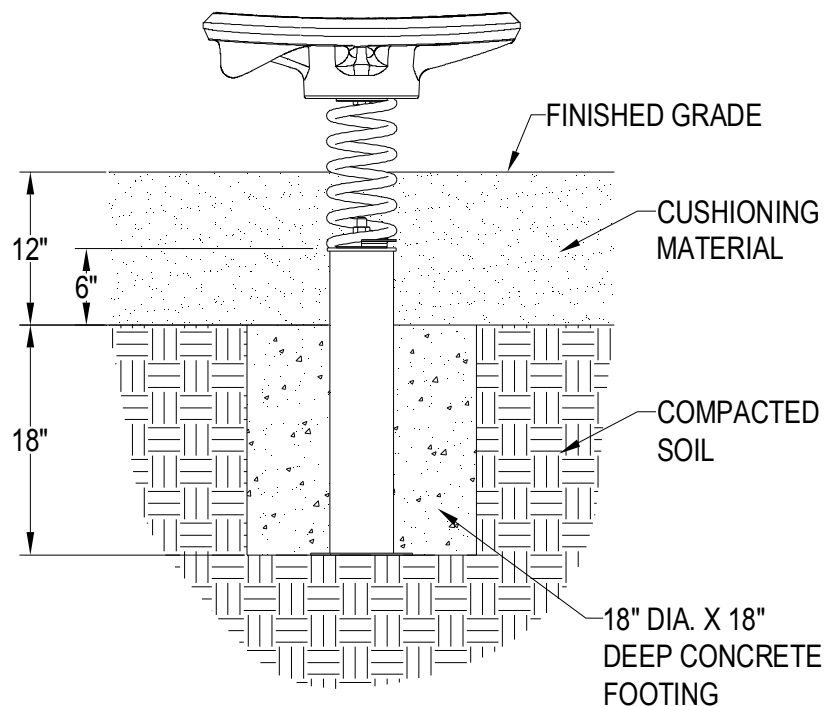
Surfer®

**STEP 1** DIG FOOTINGS

**Footing assembly instructions for natural surfacing in ground ONLY:**

Locate and dig **one 18" diameter footing, 18" deep**.

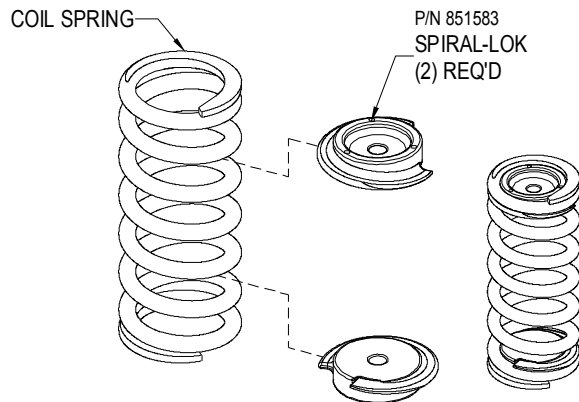
**NOTE: Surfer shown below for correct footing dimensions only. Do not yet pour concrete!**



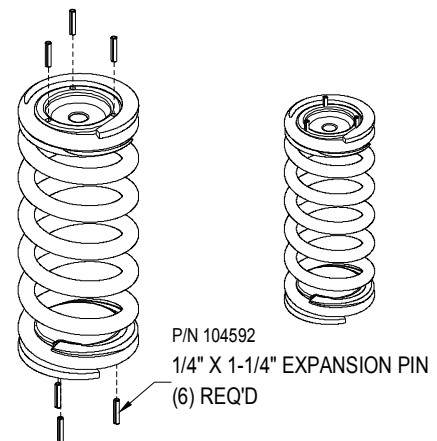
## Surfer®

### STEP 2 INSERT SPIRAL-LOKS IN SPRING; INSERT EXPANSION PINS IN SPIRAL-LOKS

Place Spiral-Loks through Coils in each end of Coil Spring, with flat sides facing each other inside Spring, and pin holes facing outward. **Gently thread Spira-Loks into Spring by hand, ensuring Spira-Lok remains fairly horizontal.** Thread Spiral-Loks as far as they will go by hand into respective ends of Spring. **DO NOT USE EXCESSIVE FORCE.**



Firmly insert expansion pins into Spiral-loks (P/N 851583) as shown.

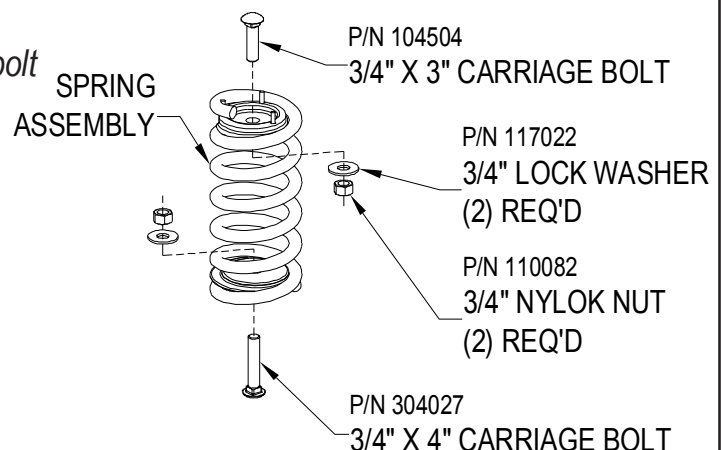


### STEP 3 CREATE SPRING ASSEMBLY

LOOSELY assemble hardware to Spring as shown. Set Spring Assembly aside.

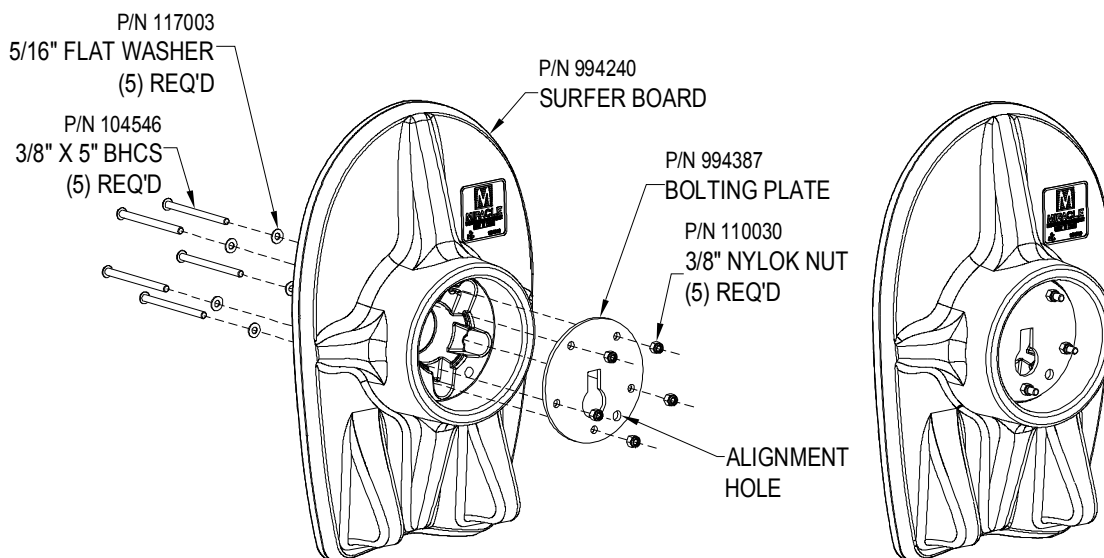
*Installation note: It is important to note that one carriage bolt is 3" and one is 4" in length. The longer bolt will be attached to Surfer body while the shorter bolt will be attached to Base Weldment. To ease confusion, mark 4" bolt with china marker to ensure correct installation in Step 7.*

ASSEMBLE CARRIAGE BOLTS TO SPRING ASSEMBLY LOOSELY!! THESE WILL BE TIGHTENED DURING ASSEMBLY TO BASE WELDMENT AND SURFER.

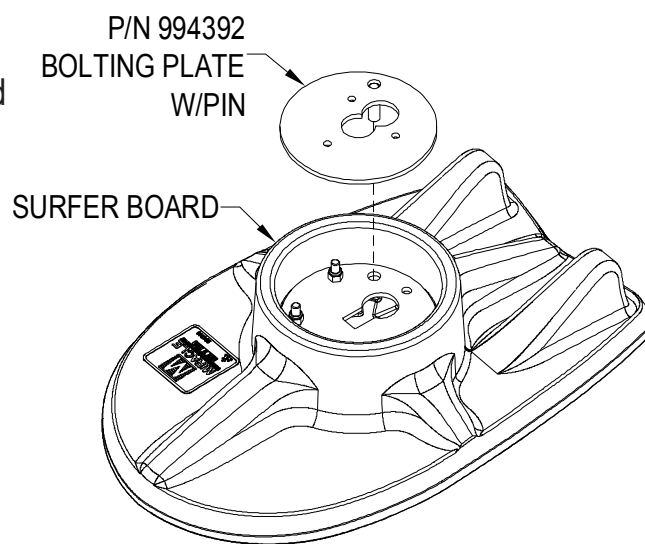


**Surfer®****STEP 4** ATTACH BOLTING PLATE TO SURFER BOARD

Note orientation of Bolting Plate without Pin (P/N 994387) to Surfer Board. Alignment hole in Bolting Plate MUST align with vent hole in Surfer. Attach Bolting Plate as shown.

**STEP 5** FIT BOLTING PLATE'S PIN INTO VENT HOLE

Turn Surfer Assembly upside down on a flat, smooth surface. Slide Bolting Plate's (P/N 994392) pin through alignment hole and vent hole in Surfer Board. This second Bolting Plate will sit on top of the hardware used to affix Bolting Plate without pin onto Surfer in previous Step.



## Surfer®

### STEP 6 SECURE SPRING ASSEMBLY TO SURFER ASSEMBLY

Orient Spring Assembly so that **3" Carriage Bolt (P/N 104504)** is on **Base Weldment Side** and **4" Carriage Bolt (P/N 304027)** is on **Surfer Assembly Side**.

#### TO ATTACH BASE WELDMENT

Place 3" carriage bolt in round end of keyhole in Base Weldment. Slide into square end and lock in place.

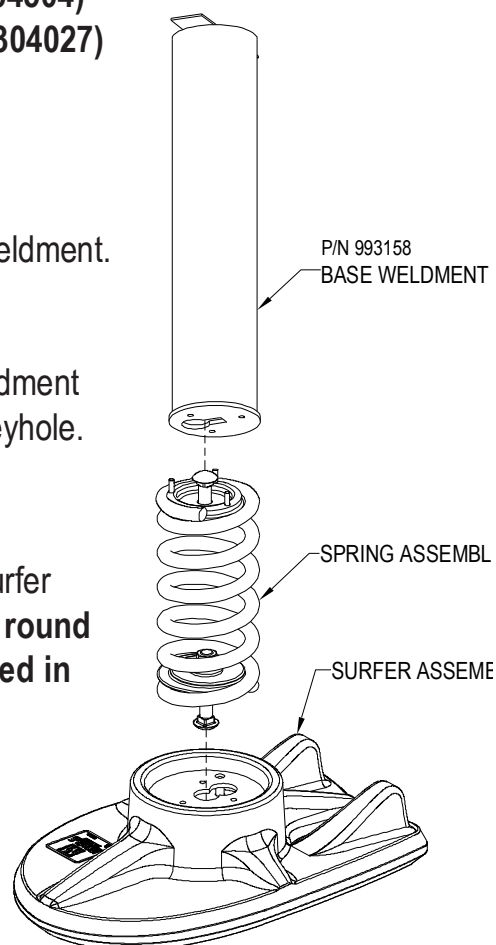
Align Expansion Pins in Spira-lok with holes in Base Weldment and tighten 3" carriage bolt into place in square end of keyhole.

#### TO ATTACH SURFER ASSEMBLY

Place 4" carriage bolt in bottom (larger) keyhole in top Surfer Bolting Plate. **Ensure carriage bolt also goes into the round end of keyhole in bottom Surfer Bolting Plate (attached in Step 5.)** Slide carriage bolt into square end of keyhole in bottom Bolting Plate and lock in place.

**NOTE: The 4" carriage bolt must go through BOTH Bolting Plates.**

Align Expansion Pins in Spira-lok with holes in Surfer Assembly Bolting Plate and tighten 4" carriage bolt into place in square end of keyhole in bottom Bolting Plate.



### STEP 7 LEVEL BASE WELDMENT IN FOOTING; POUR CONCRETE

Ensure Base Weldment is completely plumb and level prior to pouring concrete. Pour concrete to required distance from Base Weldment top (see Step 1 illustration) and allow to cure completely (minimum 72 hours) prior to allowing play.

#### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.



# Bill of Materials

September 8, 2014

Rev. D

Surfer®

QUANTITY	MODEL/COMPONENT	DESCRIPTION
1	993158GV	BASE - COIL SPRING RIDER GALVANIZED
1	994240P	SURFER BOARD - ROTOMOLDED
1	994394	PARTS CARTON 9461

**PARTS CARTON # 994394 CONTENTS:**

1	994387ZP	PLATE-BOLTING SPRING, ZINC PLATE
1	994392ZP	PLATE ASSY-BOLTING SPRING, ZINC PLATE
5	104546	BOLT 3/8-16 X 5 BHCS 6 LOBE 18-8 SS
5	117003	WASHER 5/16 FLAT 18-8 SS
5	110030	NUT 3/8-16 HEX NYLOK 18-8 SS
1	304027	BOLT 3/4-10 X 4 CARR CHEMSEAL
2	851583RD	SPIRALOK-RED
1	851582RD	COIL SPRING-RED
1	104504	BOLT 3/4-10 X 3 CARR CHEMSEAL
2	117022	WASHER 3/4 LOCK MG
2	110082	NUT 3/4-10 NYLOK CHEMSEAL
6	104592	PIN EXPANSION 1/4 X 1-1/4
1	116021	LABEL MIRACLE ID - GENERIC
1	116022	LABEL WARNING - PLAYGROUND
1	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS

Surfer

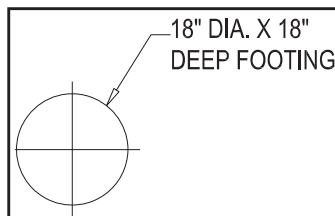
946-1

## Bug Bites® "C" Spring Rider - Lucky

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

960

"C" Spring Rider - Lucky



Footing Layout

Protective Area: 17' x 16'

### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in 'Installations 101'*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. 2 x 8's or other wood, nails, hammer to construct frame for concrete footing assembly
4. Tape measure and level
5. Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. For installation in concrete slabs: concrete saw
7. Adult installers - 2 minimum

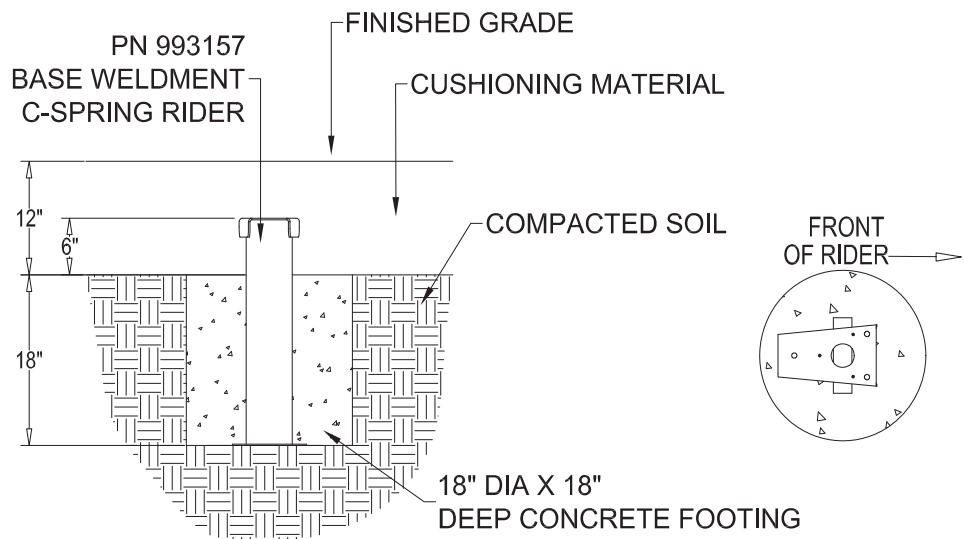
# Bug Bites® "C" Spring Rider - Lucky

## STEP 1 DIG FOOTINGS

- 1a. Consult the *CPSC Handbook* for guidelines for placement of Spring Riders, Bouncers, etc. Locate and dig one (1) 18" diameter footing by 18" deep.

## STEP 2 LEVEL BASE WELDMENT IN FOOTING

- 2a. Level and plumb weldment within the footing.
- 2b. Pour concrete within 6" of base top and allow concrete to cure completely prior to affixing rider assembly.

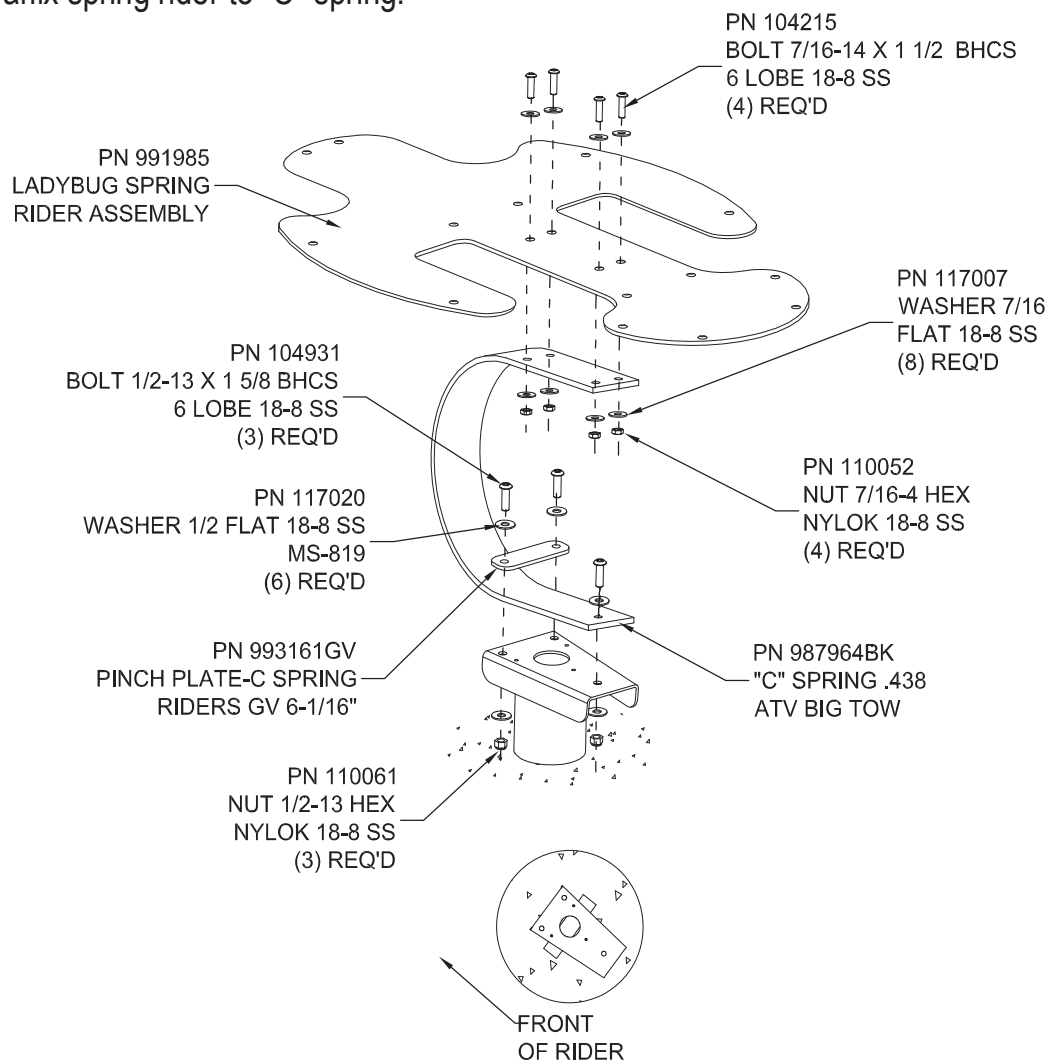


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## Bug Bites® "C" Spring Rider - Lucky

### STEP 3 ATTACH "C" SPRING TO RIDER BODY

- 3a. Bolt pinch plate over "C" spring and base as shown. Bolt spring to front of base. Ensure spring is level and plumb on base.
- 3b. Bolting downward through spring rider base (which is attached to spring rider body), affix spring rider to "C" spring.



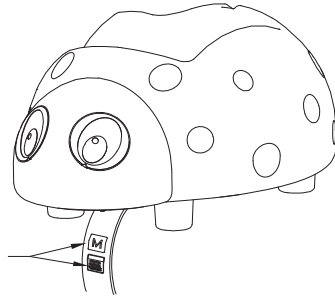
**NOTE:** Spring Rider is attached to base. Do NOT detach to assemble "C" Spring.

## Bug Bites® "C" Spring Rider - Lucky

### **STEP 4** AFFIX IDENTIFICATION/WARNING STICKERS TO "C" SPRING

4a. Apply provided Miracle identification and warning stickers to "C" Spring as shown.

**IMPORTANT NOTE:** *It is imperative that these stickers are CLEARLY visible!!*



IMPORTANT: FOR IDENTIFICATION  
AND SAFETY PURPOSES APPLY  
STICKERS AS SHOWN.

### **FINAL STEP**

Refer to **Final Assembly** installation located behind *Installations 101* in Installation Manual.

## **Bill of Materials**

### **MODEL: "C" SPRING RIDER, LUCKY - MODEL # 960**

<u>QUANTITY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	987964BK	"C" SPRING .438 ATV BIG TOW
1	991985	LADYBUG SPRING RIDER ASSEMBLY
1	993157GV	BASE GALVANIZED-C SPRING RIDER
1	993491	PARTS CARTON 960

### **PARTS CARTON # 993491**

<u>QUANTITY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	993161GV	PINCH PLATE-C SPRING RIDERS GV 6-1/16"
2	116021	LABEL MIRACLE ID - GENERIC
2	116022	LABEL WARNING - PLAYGROUND
1	HW993491	HRDW PKG 960 S1/1

### **HRDW PKG 960 S1/1 - HW993491**

<u>QUANTITY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
4	104215	BOLT 7/16-14 X 1-1/2 BHCS 6 LOBE 18-8 SS
3	104931	BOLT 1/2-13 X 1 5/8 BHCS 6 LOBE 18-8 SS
3	110061	NUT 1/2-13 HEX NYLOK 18-8 SS
8	117007	WASHER 7/16 FLAT 18-8 SS
6	117020	WASHER 1/2 FLAT 18-8 SS MS-819
4	110052	NUT 7/16-14 HEX NYLOK 18-8 SS
1	104478	BIT T-50 TORX FOR 7/16 6-LOBE BHD BOLT
1	104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS



# Installation Guide

June 4, 2001 Rev. A

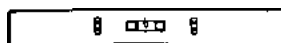
**MIRACLE**  
RECREATION EQUIPMENT COMPANY

## Final Assembly

Miscellaneous Freestanding Play Equipment and Non-Play Equipment

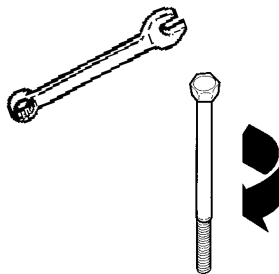
### STEP 1

Plumb and level assemblies.



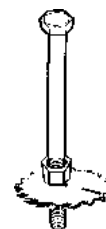
### STEP 2

Tighten all fasteners.



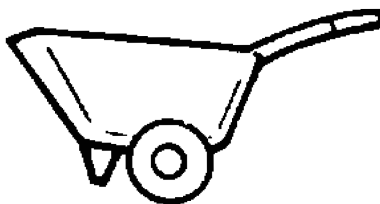
### STEP 3

Trim all bolts. No more than two (2) threads may protrude after trimming by installer. Peen ends smooth to touch.



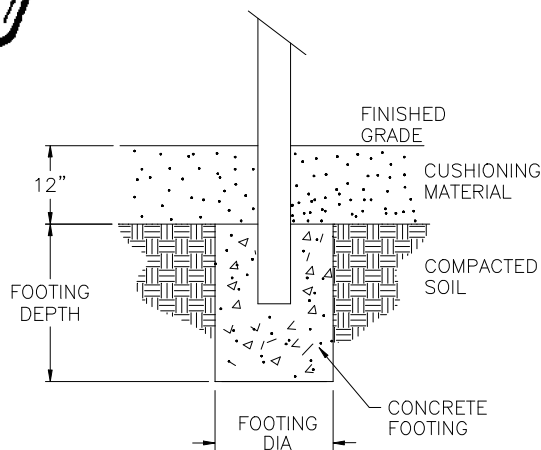
### STEP 4

Pour concrete in remaining Footings, and allow 72 hours to cure.



### STEP 5

If applicable, install cushioning material (protective surfacing) in, around, and beneath areas required for unit.



### STEP 6

If applicable, apply *Age Appropriate*, *Warning*, and *Manufacturer's I.D.* labels. Refer to *Installations 101*.

### FINAL STEP

Establish and adhere to a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.



Final Assembly

Freestanding Play and Non-Play Equipment

# Bill of Materials (Parts List)

12/7/2018 2:45:53 PM

Work Order: MR00116996

Cust #: 4850E01

W. O. Page 1 of 4

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

Qty		Model/Component	Description
1	*	304W	TEN SPIN
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	994990	PARTS CARTON - 2-12 LABEL
1		116036	LABEL - AGES 2-12 YEARS MREC
1	**	996273ORN	WHEEL F/SPINNER
1	**	996354LIM	PARTS CARTON GRIPS TEN SPIN
1		HW996354-1	HRDW PKG GRP TN SPN S1/1
5		996288LIM	HANDGRIP-TEN SPIN
1	**	996616CYN	ASSEMBLY-WHIRL BODY TEN SPIN
1	**	996618BLK	PARTS CARTON WHEEL TEN SPIN
1		996606BLK	TUBE-WHEEL WELDMENT
1		HW996618-1	HRDW PKG WHL TN SN S1/1
2		993297	WIRE, BB, 3 GA X 12"
1	**	996640BLK	POST-ASSEMBLY TEN SPIN
31	*	44012R	MIRACLE TIMBER 6' L X 12" H RECYCLED
31	**	112602RE	MIRACLE TIMBER REGRIND
1	*	4406R	ACCESS RAMP WITH 2 MIRACLE TIMBERS RECYC
1	**	988844RE	ACCESS RAMP WITH 2 MIRACLE TIMBERS
1	*	477003W	JAX PACK-THREE
1	**	116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL
1	**	116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	995543CYN	JAX 1 HOLE
1	**	995543LIM	JAX 1 HOLE LIM
1	**	995543ORN	JAX 1 HOLE

# Bill of Materials (Parts List)

12/7/2018 2:45:53 PM

Work Order: MR00116996

Cust #: 4850E01

W. O. Page 2 of 4

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

3	**	995640AZR	SUPPORT ASSEMBLY - CENTER HOLE
3	**	995820AZR	PARTS CARTON FOR 995543 TOP OF POST
3		104146	BOLT 3/8-16 X 6 1/2 HHCS 18-8 SS
3		110030	NUT 3/8-16 HEX NYLOK 18-8 SS
3		110047	NUT 1/4-20 HEX HEAVY NYLOK 18-8 SS
3		304124	BOLT 1/4-20 X 6-1/2 HHCS 18-8 SS
3		995645AZR	CAM LOCK ASSEMBLY W/O CENTER HOLE
6		104049	SET SKT 3/8-16 X 3/4 18-8 SS
9		104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS
9		117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS
2	**	995821AZR	POST-BENT R24 X 81-1/16"
1	**	995823AZR	POST-BENT R60
1	**	996031	PARTS CARTON - JAX INSTALLATION TOOLS
1		995772BLK	CAM LOCK INSTALLATION TOOL
1	**	999033AZR	PARTS CARTON - TOUCH-UP PAINT-POST
1		115208AZR	PAINT AZURE GLOSS 4.5 OZ AEROSOL CAN
1	*	656388W	SLIDE GROOVE II W/PVC STEPS 8'PLTFRM
1	**	116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL
1	**	116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT
2	**	715264	RUNG
1	**	978942LIM	FRONT LEG-TUBE SLIDES
2	**	980431LIM	DIAGONAL BRACE - 126"
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	987062LIM	LH ENCLOSURE-SLIDE PLATFORM
1	**	987063LIM	RH ENCLOSURE-SLIDE PLATFORM
1	**	987079ORN	CANOPY-FREE STANDING SLIDES
2	**	987245LIM	HANDRAIL-8' STEP
1	**	987413	PARTS CARTON GROOVE SLIDE
1		HW987413-1	HRDW PKG 657268 L1/1
1	**	989819GY	PVC PLATFORM-FREESTANDING SLIDES
1	**	989827GY	PVC TOP STEP-8' PLATFORM-FS SLIDES



# Bill of Materials (Parts List)

12/7/2018 2:45:53 PM

Work Order: MR00116996

Cust #: 4850E01

W. O. Page 3 of 4

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

1	**	989829GY	PVC BOTTOM STEP--FS SLIDES
1	**	994991	PARTS CARTON - 5-12 LABEL
1		116037	LABEL - AGES 5-12 YEARS MREC
1	**	996408ORN	SLIDE GROOVE II 8' DECK
1	**	996409LIM	MIDDLE LEG, GROOVE II SLIDES
1	**	999034LIM	PARTS CARTON - TOUCH-UP PAINT-ACCENT
1		115208LIM	PAINT LIME GLOSS 4.5 OZ AEROSOL CAN
1	*	787Z	RISK MANAGEMENT SIGN - ENGLISH
1	**	923551AZR	POST F/RISK MANAGEMENT SIGN
1	**	923560	PC F/787 RISK MNGMT ENGLISH
1		923287	RISK MNGT SIGN PRINTED ENGLISH (DNO)
1	**	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1
1		HWS923551	HARDWARE STICKER 923551
5		200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5
5		200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10		200002079	WASHER FLAT M11 23 X 12 X 1.6MM
1	*	9461	SURFER WITH SPRING ACTION
4	**	200126822	RIVET POP ALUM. 1/8 X 1/4 PRADA44D
1	**	200126872	PLATE ALUM. CR80 X .032 (I.D. LABEL)
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	993158GV	BASE-COIL SPRING RIDER GALVANIZED
1	**	994240ORN	SURFER BOARD, ROTOMOLDED
1	**	994394AZR	PARTS CARTON 9461
1		104504	BOLT 3/4-10 X 3 CARR CHEMSEAL
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		304027	BOLT 3/4-10 X 4 CARR ZINC PLATE
1		851582AZR	COIL SPRING
1		994387ZP	PLATE-BOLTING SPRING, ZINC PLATE
1		994392ZP	PLATE ASSY-BOLTING SPRING, ZINC PLATE

**Bill of Materials**
*(Parts List)*

12/7/2018 2:45:53 PM

Work Order: MR00116996

Cust #: 4850E01

W. O. Page 4 of 4

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

1		HW994394-1	HRDW PKG 9461 M1/1
2		110082	NUT 3/4-10 NYLOK CHEMSEAL
2		117022	WASHER 3/4 LOCK MG
2		851583LGY	SPIRALOK
1	**	994991	PARTS CARTON - 5-12 LABEL
1		116037	LABEL - AGES 5-12 YEARS MREC
1	*	960W	RIDER ROCKITE LADYBUG W/C-SPRING, LUCKY
1	**	991985BOX	LADYBUG SPRING RIDER BOXED

Total Weight: 4395.00



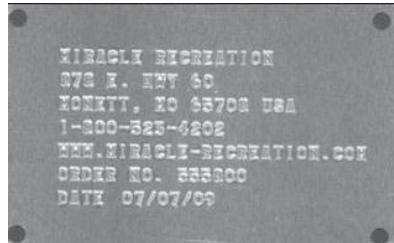
# Installation Guide

August 12, 2009

Rev. A

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

## CPSIA Labels for After Market Service Parts



Your Miracle Recreation order includes a CPSIA tracking label. This label is either a metal tag or a sticker with laminate overlay. **Federal Law dictates that this label MUST be placed in a prominent position on either your existing play system or independent event, dependent upon your order.**

Please refer to Miracle document "CPSIA Labels" in our Installation Manual (if manufactured after 8/14/09) to ascertain correct label placement for your particular order. For example, if ordering a replacement part for a Coil Spring rider, see "Coil Spring" section on CPSIA document.

This document may also be found electronically:

Installers: Please see Miracle Installer website

Sales Representatives: Please see Miracle intranet website

Customers: Please see Miracle's website at [www.Miracle-Recreation.com](http://www.Miracle-Recreation.com)

If you have questions regarding CPSIA label placement, please call Miracle Customer Service at 1-800-523-4202 for more information.

CPSIA Labels - After Market Service Parts

714, 718, 704, Misc.



# Post-Installation Check List

D70165 Rev. B

Date of Completed Install: \_\_\_\_\_

Work Order #: \_\_\_\_\_

Customer: \_\_\_\_\_

Project: \_\_\_\_\_

City/State: \_\_\_\_\_

- ☐ All labels properly affixed (CPSIA, age appropriate, top of surfacing and warning).
- ☐ ALL CPSIA embossed labels for composite structures photographed for evidence of proper installation on equipment\*.
- ☐ All bolts, nuts, and set screws checked for tightness. All excess bolt threads cut and peened smooth to expose no more than two threads.
- ☐ Unit has been wiped down to eliminate dust/dirt (soap and water may be necessary).
- ☐ Equipment checked for installation guideline compliance.
- ☐ Site cleaned with all construction trash removed.
- ☐ Owner notified that installation was done according to manufacturer's specifications. Note any exceptions, e.g. that the owner must still provide safety surface, etc.
- ☐ Touch-up paint, torque drive bits and spare parts left with the owner.
- ☐ Owner reminded that equipment should not be used for 72 hours after installation to allow concrete to cure (if applicable) and/or protective surfacing must be installed.
- ☐ If installation was not done according to specifications, please indicate changes and describe reason for doing so, and contact information for the person(s) who authorized the change.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- ☐ Authorized by: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_
- ☐ Installer Signature \_\_\_\_\_ Date: \_\_\_\_\_
- ☐ Signed by owner or authorized customer \_\_\_\_\_ Date: \_\_\_\_\_

**\*RETURN COMPLETED CHECKLIST AND PHOTOGRAPHS to MIRACLE CUSTOMER SERVICE by mail at 878 E. Hwy 60, Monett, MO 65708 or electronically to [customer.service@miraclerec.com](mailto:customer.service@miraclerec.com).**

**For questions contact Customer Service call 1-800-523-4202.**



**1-800-523-4202**

[www.miracle-recreation.com](http://www.miracle-recreation.com)

**LEAVE BLANK**

**Load: 18-2021**

# ***Installation Manual***

*for your Miracle PlaySystem*

***Please see (Online):***

- [READ ME FIRST](#)
- [CPSC Handbook](#)
- [Install 101 and Hardware Guide](#)

***Inside***

- *Construction Drawings and Footing Layouts*
- *Installation Guides*
- *Parts List of every component in your  
Playsystem*



---

***CITY OF FLINT  
FLINT, MI  
Work Order: MR00116997***

# INSTALLATION INSTRUCTIONS TOP VIEW & FOOTING LAYOUT

PAGE  
1 OF 5

MCKINLEY PARK

DRAWING NUMBER:  
116997

WORK ORDER NUMBER(S):  
116997

DATE:  
12/4/18  
MIRACLE MIDWEST

## IMPORTANT SAFETY NOTE:

IT IS THE RESPONSIBILITY OF THE PLAYGROUND OWNER/ OPERATOR TO ENSURE THAT THE APPROPRIATE TYPE AND DEPTH OF CUSHIONING MATERIAL (PROTECTIVE SURFACING) IS USED. THE CUSHIONING MATERIAL MUST BE INSTALLED AND MAINTAINED IN THE "USE ZONE" AREA UNDER AND ALL AROUND THE PLAYGROUND EQUIPMENT. FOR COMPLETE SURFACING AND USE ZONE INFORMATION, PLEASE REFER TO THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S (CPSC) "PUBLIC PLAYGROUND SAFETY HANDBOOK" SECTION 2.4 (SURFACING), SECTION 5.3 (EQUIPMENT) AND SECTION 4.3 (MAINTENANCE).

THIS PLAY SYSTEM FOLLOWS THE RECOMMENDATIONS CONTAINED IN THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S "PUBLIC PLAYGROUND SAFETY HANBOOK" REGARDING PLAYGROUND EQUIPMENT DESIGNED FOR:

**5 - 12 YEAR OLD CHILDREN**

THERE CAN BE LARGE DISPARITIES IN THE ABILITIES OF CHILDREN OF SIMILAR AGES. PARENTS MUST BE RESPONSIBLE FOR LIMITING THEIR CHILDREN TO THOSE ACTIVITIES THAT ARE APPROPRIATE AND SAFE FOR THEIR CHILDREN'S INDIVIDUAL ABILITIES.

**MIRACLE RECREATION EQUIPMENT COMPANY**

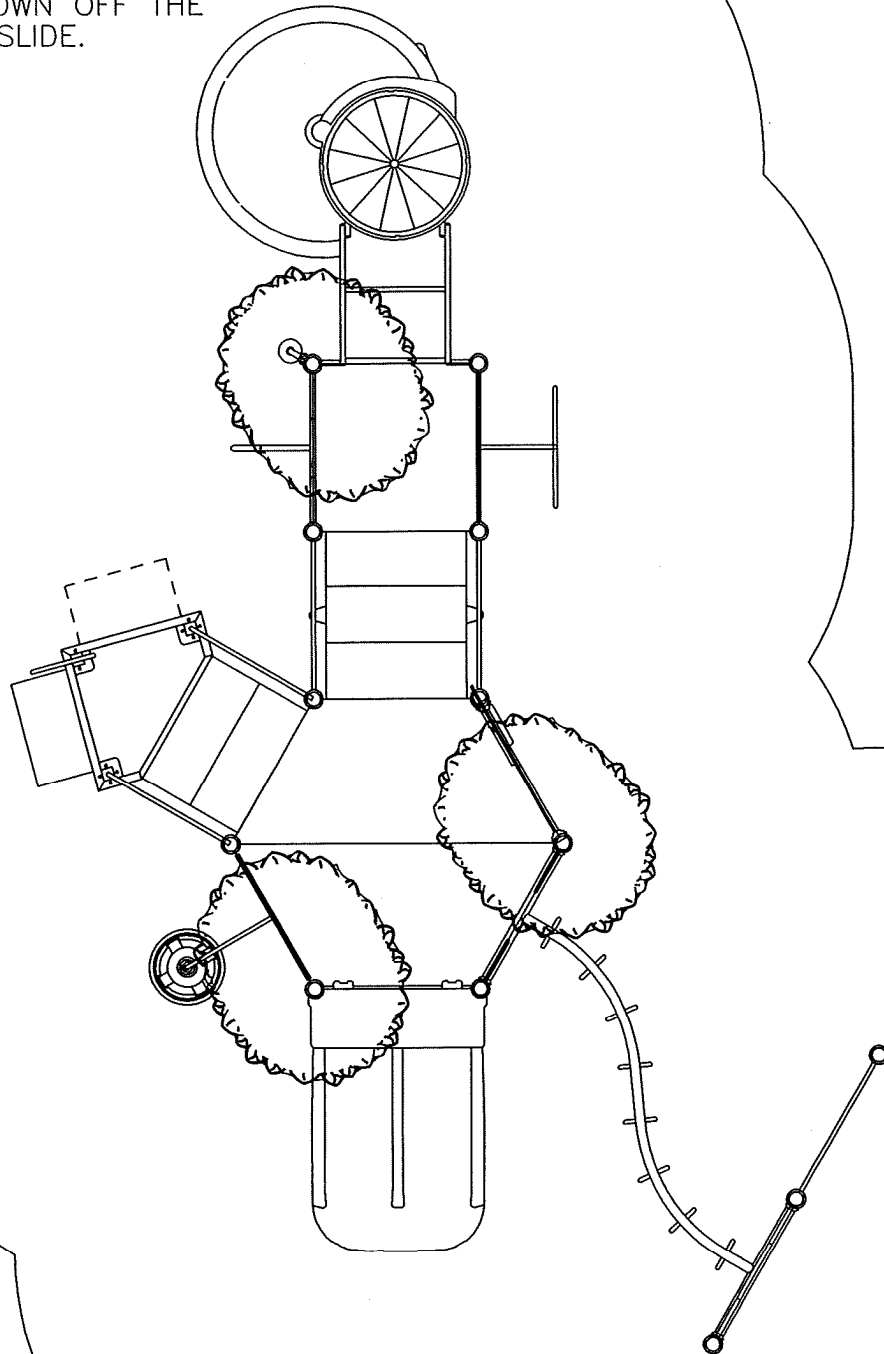
878 E. HWY 60  
MONETT, MISSOURI 65708  
PHONE: 1-800-523-4202



IMPORTANT NOTE:  
THE LINE SHOWN AROUND THIS  
PLAYSYSTEM REPRESENTS THE  
PERIMETER OF THE MINIMUM  
"USE ZONE" REQUIRED. THIS  
"USE ZONE" MUST EXTEND AT  
LEAST SIX (6) FEET FROM ALL  
SIDES OF THE PLAYSYSTEM,  
EXCEPT AS SHOWN OFF THE  
END OF EACH SLIDE.

USE ZONE  
SCALE:  $1/4" = 1'-0"$

PAGE  
2 OF 5



GROUND SPACE: 19' X 29'  
PROTECTIVE AREA: 21' X 41'

116997

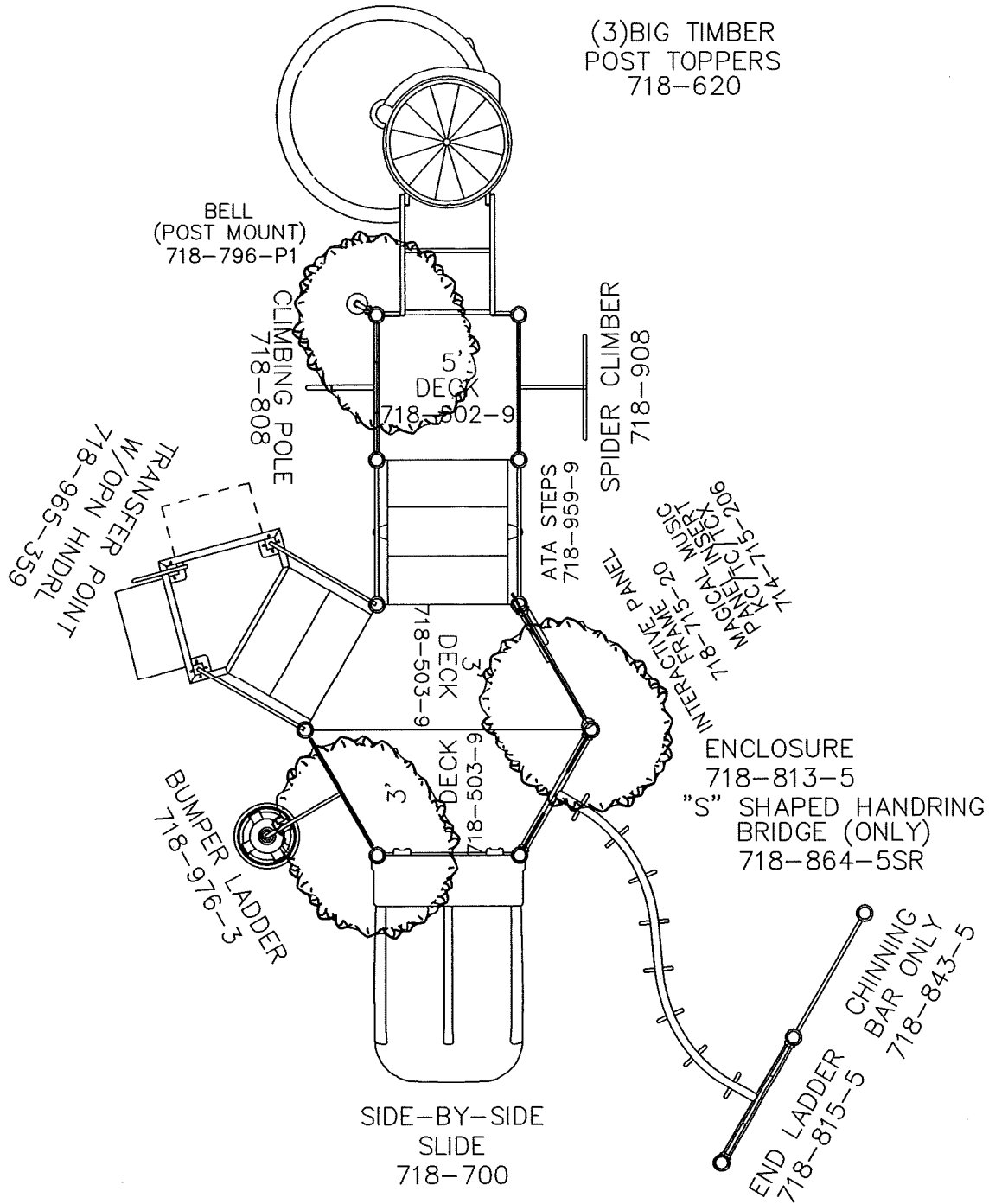
# TOP VIEW

SCALE: 1/4"=1'-0"

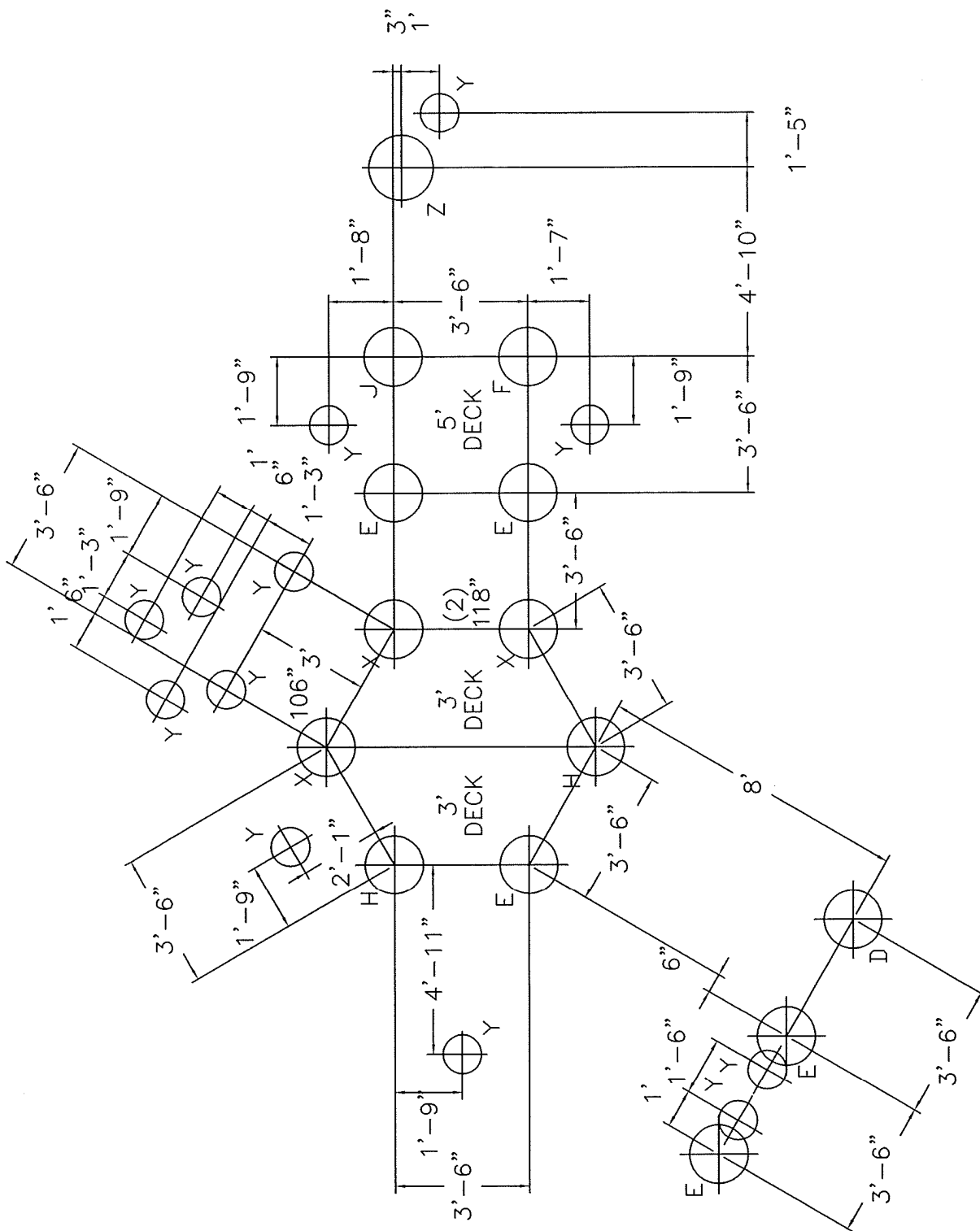
PAGE  
3 OF 5

718-748-59  
360 ONE PIECE  
TYPHOON II

(3) BIG TIMBER  
POST TOPPERS  
718-620



SCALE: 1/4"=1'-0"



IMPORTANT NOTE: DO NOT POUR CONCRETE FOR FOOTINGS UNTIL ALL COMPONENTS ARE INSTALLED.

116997

# FOOTING INFORMATION

PAGE  
5 OF 5

## POST LOCATION:

FOOTING	MODEL	POST LENGTH
A.	718-575	190" POST
B.	718-554	166" POST.
C.	718-576	198" POST.
D.	718-551	100" POST.
E.	718-552	130" POST.
F.	718-553	148" POST.
G.	718-572	138" POST.
H.	718-573	162" POST.
J.	718-574	180" POST.
K.	718-583	151" ARCH.
L.	718-585	175" ARCH.
M.	718-586	193" ARCH.
N.	718-555	70" POST.

## FOOTING SCHEDULE:

A-N. 18" DIA. X 18" DEEP.  
X. 18" DIA. X 18" DEEP.  
Y. 12" DIA. X 18" DEEP.  
Z. 20" DIA. X 42" DEEP.

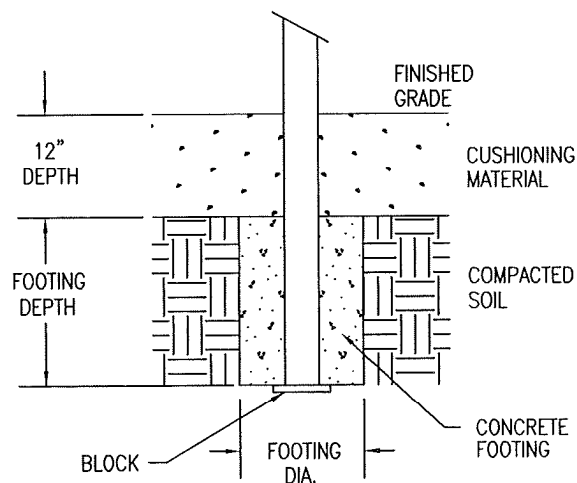
\* LOCATIONS DETERMINED ON SITE.

## FOOTING NOTES:

1. SOME EQUIPMENT LEGS MAY NOT REACH TO BOTTOM OF FOOTINGS.
2. ALLOW FOR BLOCK THICKNESS BY INCREASING FOOTING DEPTH WHEN APPLICABLE.

## DECK & COMPONENT FOOTING DETAIL

SCALE: NONE



## Swing Seats

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
284	Slashproof Seat (10' max. height)	2
2840	Slashproof Seat w/Chain 8'	2
2840TT	Slashproof Seat w/Tensile Tough Chain	2
2841	Slashproof Seat w/Chain 10'	2
2841TT	Slashproof Seat w/Tensile Tough Chain	2
299	360° Tot Seat (8' max. height)	2
2990	360° Tot Seat w/Chain 8'	2
2990TT	360° Tot Seat w/Tensile Tough Chain	2
2740	Inclusive Swing Seat w/Chain 8'	2
2741	Inclusive Swing Seat w/Chain 10'	2
2760	Generation Swing Seat w/Chain 8'	2

#### Note:

- *Deck Systems are NOT included in these assemblies.*
- *An (\*) by part numbers indicate: Color Code Required.*
- *Please refer to Construction Drawings for the model particular to your system.*

### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

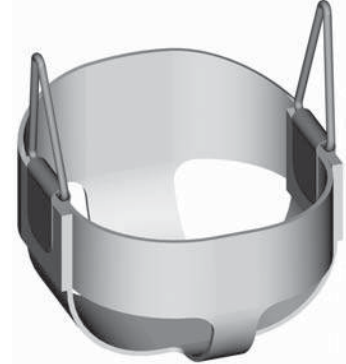
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, concrete blocks, bricks, sawhorses, jack stands, etc.)
4. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
5. Step ladder(s)
6. Tape measure and level
7. Adult installer

## Swing Seats

284, 2840 and 2841  
Slashproof Seat



299 and 2990  
360° Tot Seat

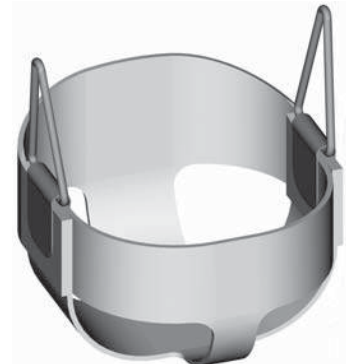


*Note: Chains NOT shown.*

2840TT and 2841TT  
Slashproof Seat w/Tensile Tough Chain



2990TT  
360° Tot Seat w/Tensile Tough Chain



*Note: Chains NOT shown.*

2740 and 2741  
Inclusive Swing Seat



2760  
Generation Swing Seat



*Note: Chains NOT shown.*

## Swing Seats

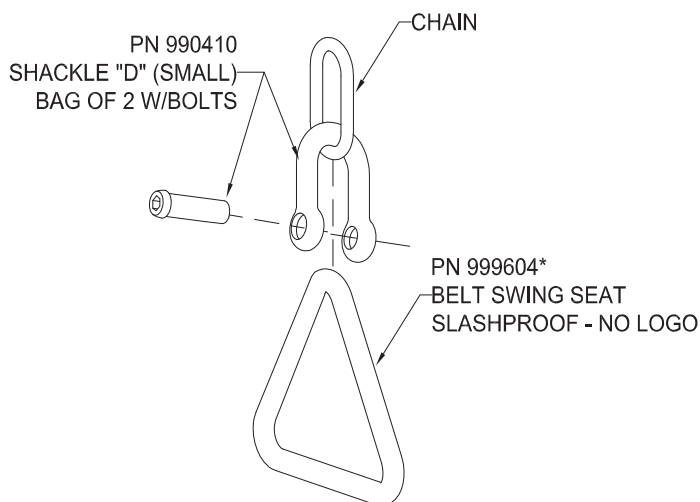
## STEP 1 | INSTALL SWING FRAMES PER SEPARATE INSTRUCTIONS

1a. Install swing frame and allow concrete footings to fully cure (usually 72 hours) before assembling chains and seats to frame.

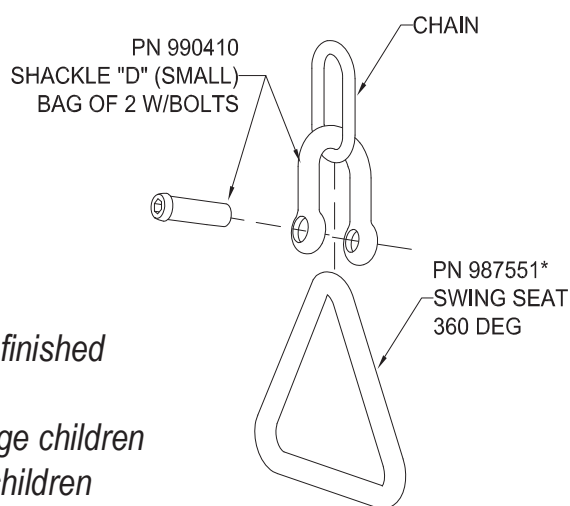
## STEP 2 ATTACH SEAT WITH "D" SHACKLES

2a. Attach seat to chains using two (2) "D" shackles with bolts. Depending on your installation, the chains may need to be shortened to ensure the correct seat height.

i. For Models 284, 2840, 2841, 2840TT, 2841TT:



ii. For Models 299, 2990, 2990TT:



*Note: The correct height of the seats above finished grade when a user is sitting in the seat is:*

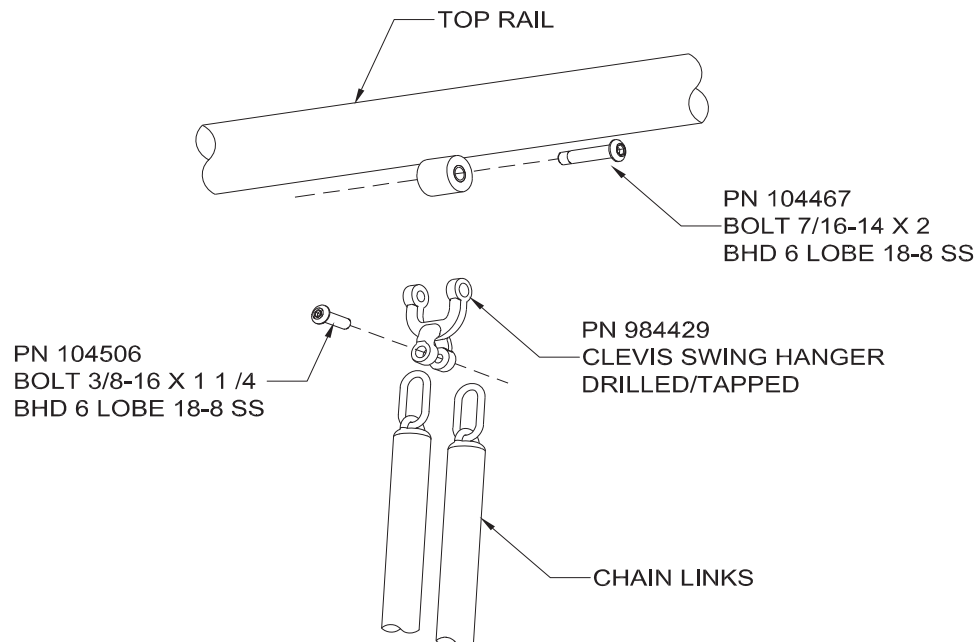
- 12" minimum for pre-school age children
- 12" minimum for school-age children
- 24" minimum for tot swings

## Swing Seats

### **STEP 2** ATTACH SEAT WITH "D" SHACKLES cont.

2b. Depending on your installation, the chains may need to be shortened to ensure the correct seat height.

iii. For Models 2740 and 2741:



*Note: The correct height of the seats above finished grade when a user is sitting in the seat is:*

- 12" minimum for pre-school age children
- 12" minimum for school-age children
- 24" minimum for tot swings

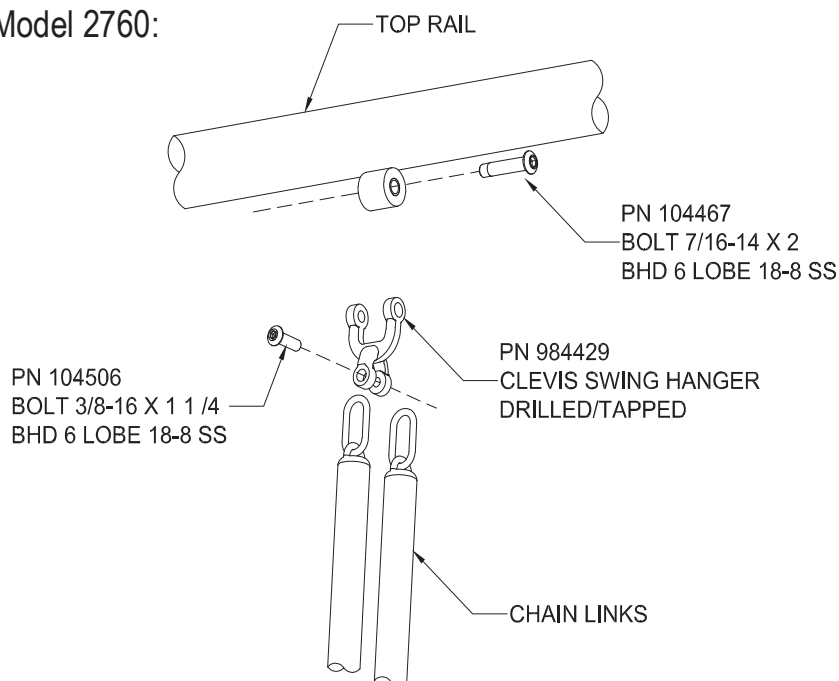


## Swing Seats

### **STEP 2** ATTACH SEAT WITH "D" SHACKLES cont.

2c. Attach seat to chains using two (2) "D" shackles and bolts. Depending on your installation, the chains may need to be shortened to ensure the correct seat height.

iv. For Model 2760:



*Note: The correct height of the seats above finished grade when a user is sitting in the seat is:*

- 12" minimum for pre-school age children
- 12" minimum for school-age children
- 24" minimum for tot swings

### **FINAL STEP**

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

## Swing Seats

### REPLACEMENT KITS FOR MAINTENANCE

#### 2740 and 2741 - Inclusive Swing Seat

<u>ITEM</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
923422	AS NEEDED	INCL SWG SEAT RES REPLACEMENT KIT
<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
304262	4	YOKE FRICTION SPACER
200097726	2	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM

<u>ITEM</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
924407	AS NEEDED	REPLACEMENT LATCH F/INCL SWG SEAT
<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
906478	1	LATCH LOCATOR SLEEVE
906491	1	LATCH GRIP
906498	1	LATCH FRONT PLATE
906499	1	LATCH SPRING PLATE
906500	1	LATCH CYLINDER
906501	1	LATCH BACKING PLATE
906488	1	LATCH COMPRESSION SPRING
200002010	1	SCREW MACH BUTTON HEAD M10 X 1.5 X 16MM
200097726	1	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM

<u>ITEM</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
902840	AS NEEDED	HDWR BAG F/INCL SWING SEAT 10FT TOP RAIL
<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
903695	2	INCLUSIVE SWING CHAIN 1, 52 LINKS F/10FT
903694	2	INCLUSIVE SWING CHAIN 2, 68 LINKS F/10FT
903699	1	INCLUSIVE SWING CHAIN 3, 13 LINKS
200035993	6	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)
200035994	6	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)

<u>ITEM</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
902841	AS NEEDED	HDWR BAG F/INCL SWING SEAT 8FT TOP RAIL
<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
906502	2	INCLUSIVE SWING CHAIN 1, 34 LINKS F/8FT
906118	2	INCLUSIVE SWING CHAIN 2, 50 LINKS F/8FT
903699	1	INCLUSIVE SWING CHAIN 3, 13 LINKS
200035993	6	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)
200035994	6	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)

## Swing Seats

### Bill of Material

#### SLASHPROOF SEAT

<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
284	990931*	1	PARTS CARTON, S/P SEAT W/SHACKLES
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2840 (For 8' Top Rail)	990932	1	PARTS CARTON - (2) - 71" CHAINS
	990931*	1	PARTS CARTON, S/P SEAT W/SHACKLES
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2840TT (For 8' Top Rail)	990931*	1	PARTS CARTON, S/P SEAT W/SHACKLES
	294	1	CHAIN SWING 71" TENSILE TOUGH 8' T/R
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2841 (For 10' Top Rail)	990933	1	PARTS CARTON - (2) - 7'-10" CHAINS
	990931*	1	PARTS CARTON, S/P SEAT W/SHACKLES
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2841TT (For 10' Top Rail)	284	1	SLASH PROOF SEAT W/SHACKLES
	295	1	CHAIN SWING 94", TENSILE TOUGH 10' T/R

#### 360 DEGREE TOT SEAT

<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
299	990934*	1	PARTS CARTON, S/P CHAIR W/SHACKLES
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2990 (For 8' Top Rail)	990935	1	PARTS CARTON - (2) - 4'-3" CHAINS
	990934*	1	PARTS CARTON, S/P CHAIR W/SHACKLES
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2990TT (For 8' Top Rail)	990934*	1	PARTS CARTON, S/P CHAIR W/SHACKLES
	296	1	CHAIN SWG 51" TENSILE TOUGH F/360 DEG ST

#### INCLUSIVE SWING SEAT

<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2740	906486*	1	INCLUSIVE RACING SEAT - 8' ASSEMBLY - MREC
2741	903697*	1	INCLUSIVE RACING SEAT - 10' ASSEMBLY - MREC

#### GENERATION SWING SEAT

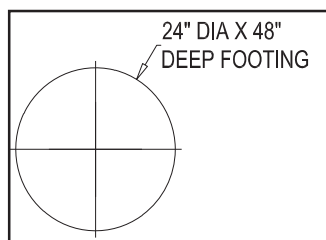
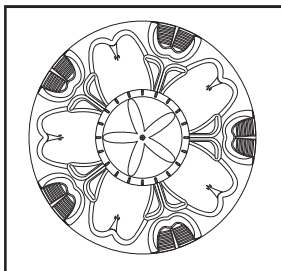
<u>Model</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>
2760	907604*	1	GENERATION SWING SEAT ASSEMBLY - MREC

Note: An (\*) by part numbers indicate: Color Code Required

## Ten Spin

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

Top View



Footing Details

Protective Area: 20' DIA.



304

Ten Spin

Ten Spin

### TOOLS AND EQUIPMENT REQUIRED

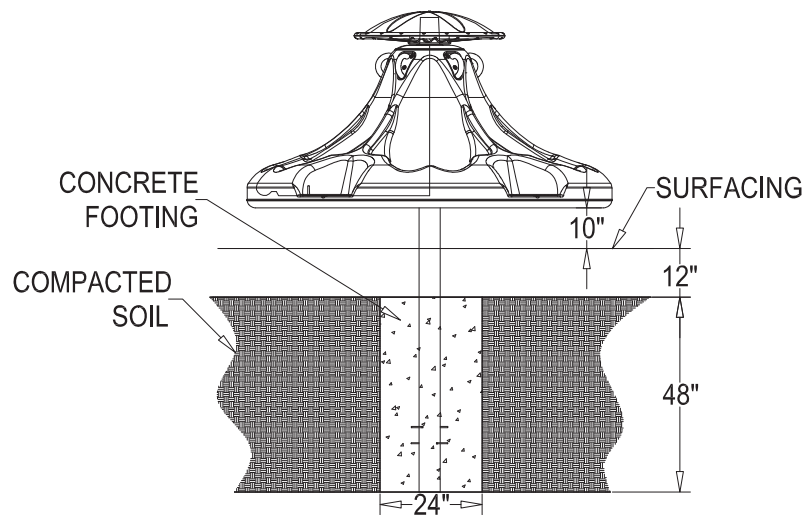
*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4;s, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Step ladder
8. Adult installers - 2 minimum

## Ten Spin

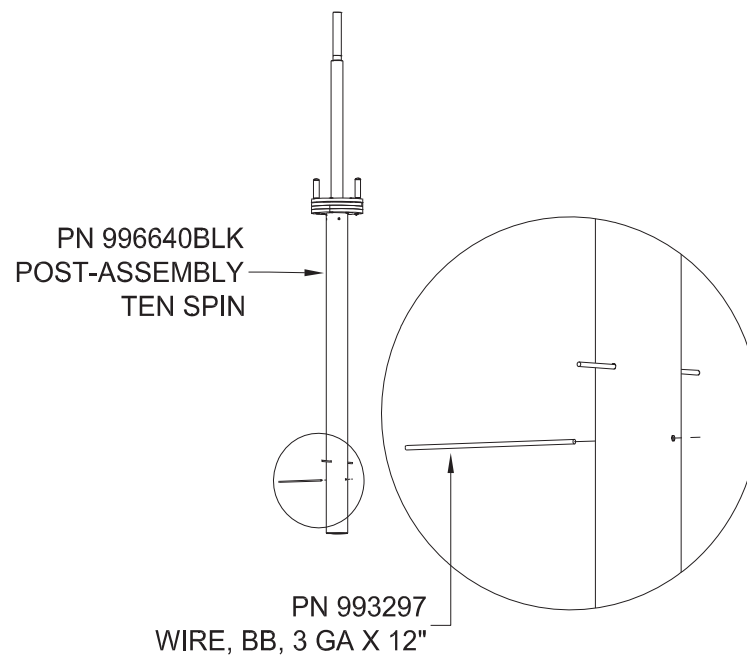
### STEP 1 DIG FOOTING

1a. Refer to *Footing Details* on page 1 and Footing side view below.



### STEP 2 INSERT BB WIRE INTO HOLES IN POST ASSEMBLY

2a. Tap BB Wire into pre-drilled holes in post assembly bottom as shown. Ensure equal amounts of wire protrude on both sides.



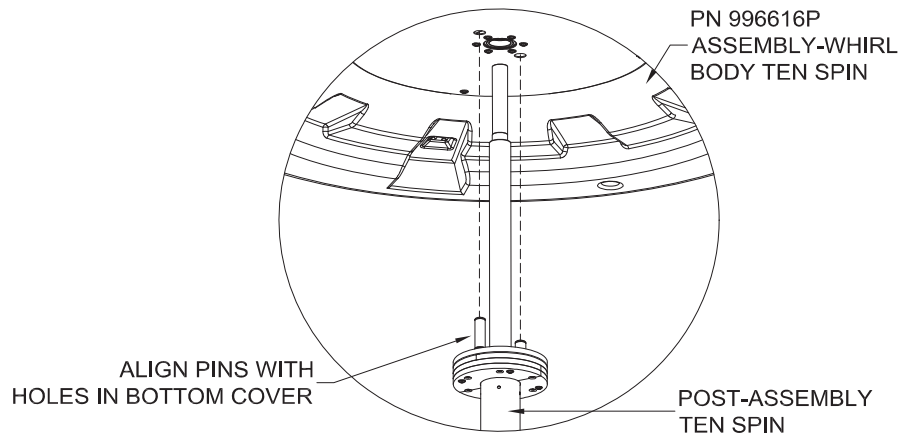
## Ten Spin

### **STEP 3** SET POST INTO FOOTING; BRACE; POUR CONCRETE

3a. Ensure post assembly is braced into footing, level and plumb. Pour concrete and allow to cure for 72 hours prior to completing installation.

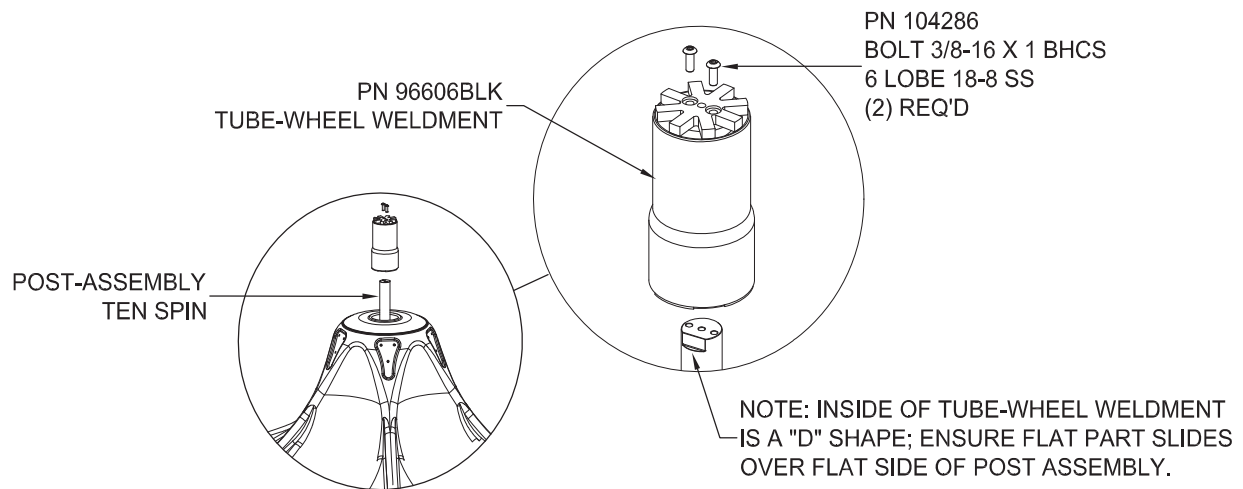
### **STEP 4** ATTACH TEN SPIN ASSY TO POST ASSY

4a. Set Ten Spin assembly onto post assembly; ensure pins on post assembly line up with holes in bottom of Ten Spin assembly.



### **STEP 5** SECURE TEN SPIN TO POST ASSEMBLY

5a. Locate tube-wheel weldment (PN 996606BLK) and set tube atop the post assembly; line up two (2) outer bolt holes on top of post assembly with the two (2) outer bolt holes on tube's top; securely fasten via hardware as shown.



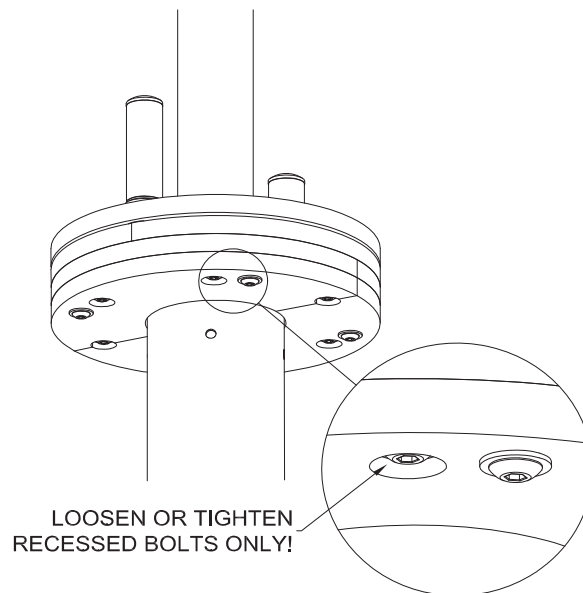
## Ten Spin

### **STEP 6** TEST TEN SPIN OPERATION

6a. Refer to Step 4 graphic on page 3, give Ten Spin a firm push and note number of revolutions; ensure Ten Spin rotates freely, quietly and smoothly.

- **IF, Ten Spin successfully and smoothly rotates 2-3 times** before coming to a complete stop, move ahead to Step 7 on page 6.
- **IF, Ten Spin rotates *LESS* than two (2) times** before coming to a complete stop, locate six (6) recessed bolts on post assembly (shown below in graphic) and *LOOSEN* counter clockwise 1/8th of a turn (45°) in all six (6) recessed bolt locations.
- **IF, Ten Spin rotates *MORE* than three (3) times** before coming to a complete stop, locate six (6) recessed bolts on post assembly (shown below in graphic) and *TIGHTEN* all clockwise 1/8th of a turn (45°) in all six (6) recessed bolt locations.

6b. Retry spinning and continue to adjust as needed for smooth operation.

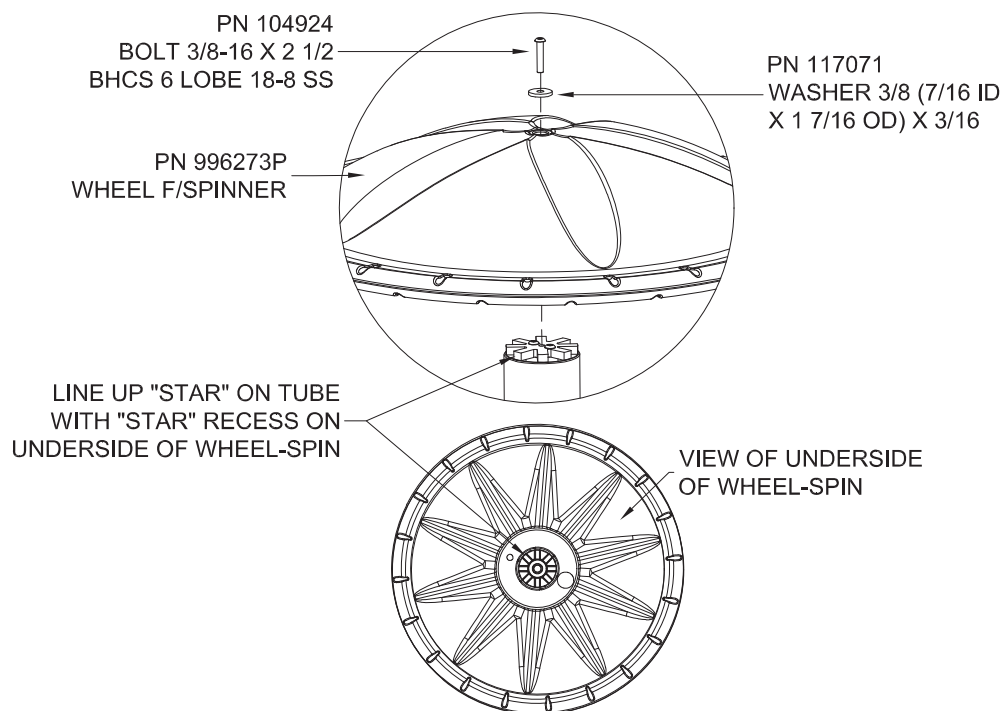


## Ten Spin

### **STEP 7** ATTACH WHEEL-SPIN

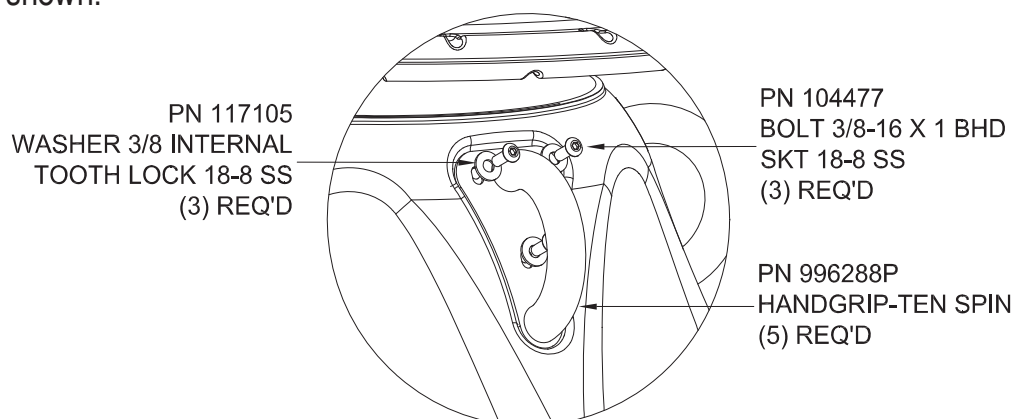
7a. Set wheel-spin atop tube, ensuring "star" arms on tube set into recessed "star" indentations on wheel-spin's underneath side. It is **IMPORTANT** that these line up correctly to create a cog-wheel effect.

7b. Fasten via hardware as shown. Bolt will fasten into center bolt hole on tube.



### **STEP 8** FASTEN HAND GRIPS

8a. Set hand grips into indentations in Ten Spin and attach in three (3) places each as shown.





## Ten Spin

### FINAL STEP

Proceed with **Final Assembly** installation: Ensure all hardware is tightened; use hand grips to turn Ten Spin, ensuring it turns freely; if not, refer back to step 6; install all protective surfacing; apply Miracle and warning labels onto post assembly where they can be easily seen.

### Bill of Material

#### MODEL 304 TEN SPIN

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	996616P	ASSEMBLY-WHIRL BODY TEN SPIN
1	996273P	WHEEL F/SPINNER
1	996640BLK	POST-ASSEMBLY TEN SPIN
1	996618BLK	PARTS CARTON WHEEL TEN SPIN
1	996354P	PARTS CARTON GRIPS TEN SPIN
1	986348	PARTS CARTON - GENERIC AND WARNING LABELS
1	994990	PARTS CARTON - 2-12 LABEL

#### PARTS CARTON 996618BLK

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	996606BLK	TUBE-WHEEL WELDMENT
2	993297	WIRE, BB, 3 GA X 12"
1	HW996618-1	HRDW PKG WHL TN SN S1/1
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	104924	BOLT 3/8-16 X 2 1/2 BHCS 6 LOBE 18-8 SS
2	104930	BOLT 3/8-16 X 1 1/8 BHCS 6 LOBE 18-8 SS
1	117071	WASHER 3/8 (7/16 ID X 1 7/16 OD) X 3/16

#### PARTS CARTON 996354P

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	996288P	HAND GRIP TEN SPIN
1	HW996354-1	HRDW PKG GRP TN SPN S1/1
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
15	104477	BOLT 3/8-16 X 1 BHD SKT 18-8 SS
15	117105	WASHER 3/8 INTERNAL TOOTH LOCK 18-8 SS



# Installation Guide

## Peak Climber - 2-Way, 3-Way & 4-Way

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
4382	Peak Climber, 2 Way	2
4383	Peak Climber, 3 Way	2
4384	Peak Climber, 4 Way	3

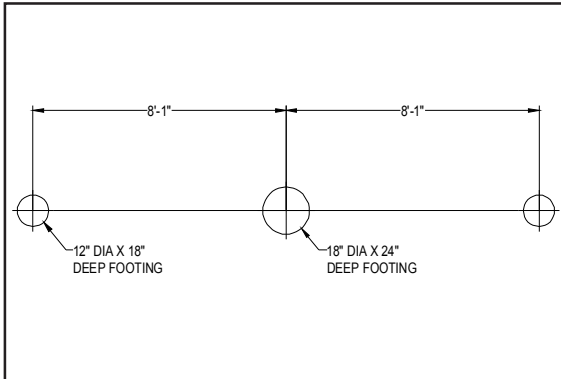
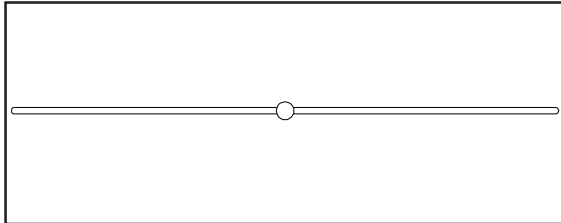
### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Hammer
8. Step ladder
9. Adult installers - 2 minimum

# Peak Climber - 2-Way, 3-Way & 4-Way

Top View SCALE = NONE

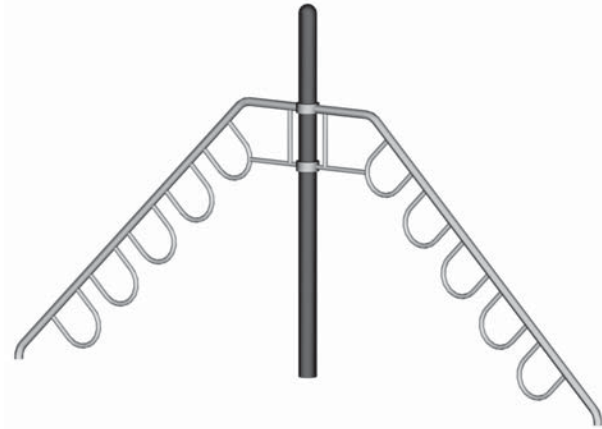


Footing Layout

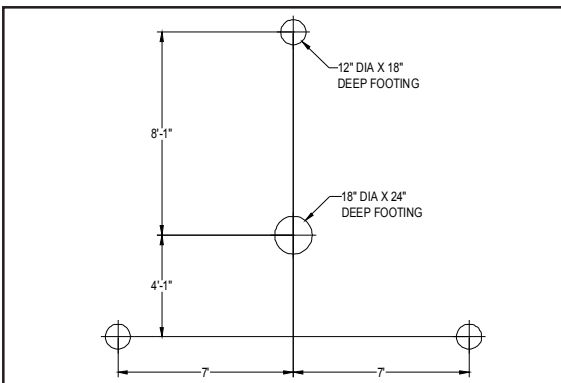
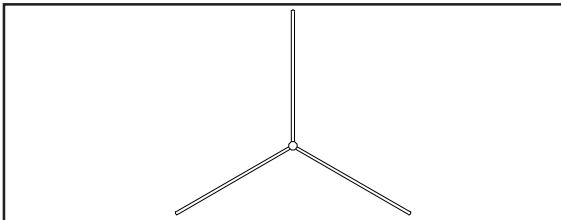
PROTECTIVE AREA: 28'-11" x 13'

**4382**

Peak Climber, 2-Way



Top View SCALE = NONE

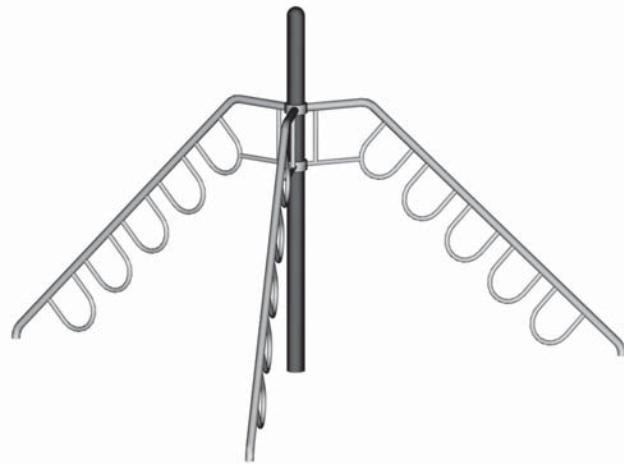


Footing Layout

PROTECTIVE AREA: 26'-9" x 24'-10"

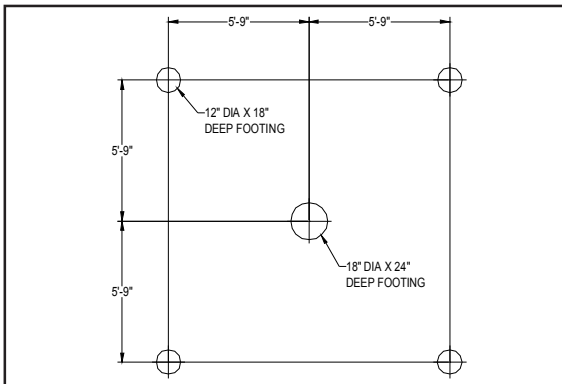
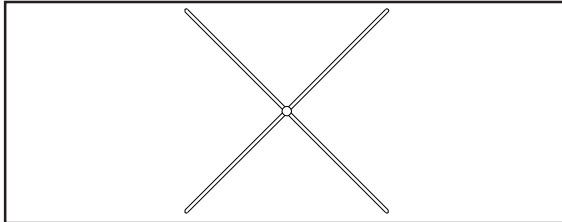
**4383**

Peak Climber, 3-Way

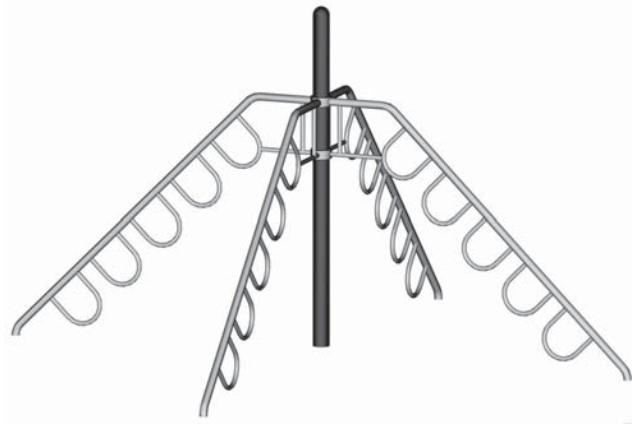




## Peak Climber - 2-Way, 3-Way & 4-Way

**4384**
**Peak Climber, 4-Way**
**Top View** SCALE = NONE

**Footing Layout**

PROTECTIVE AREA: 24'-2" x 24'-2"


**Peak Climber**

## Peak Climber - 2-Way, 3-Way & 4-Way

### STEP 1 DIG FOOTINGS

Dig Footings per *Footing Layout* or Construction Drawings. Refer to **Footing Details** installation.

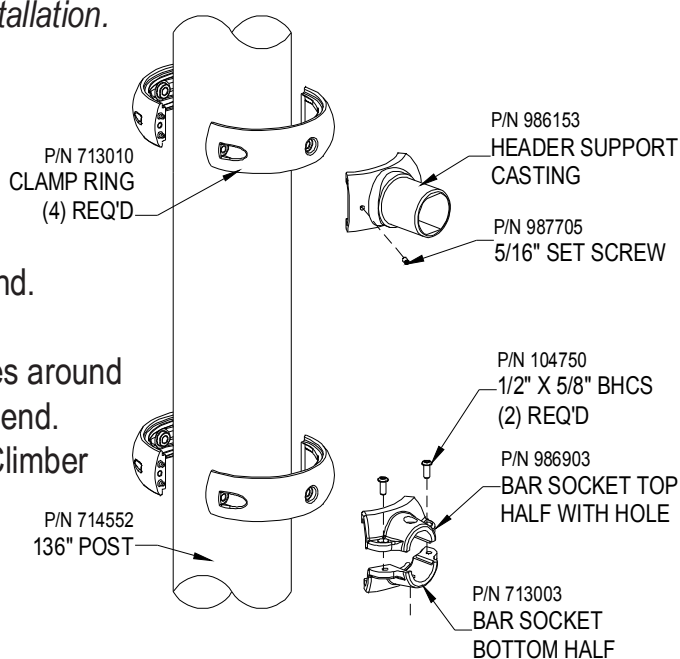
**Note:** Do not pour concrete or permanently secure Clamps to Post with self-drilling screws until components illustrated in this installation guide have been installed per instructions and braced in position level and plumb.

### STEP 2 ASSEMBLE HEADER SUPPORT CASTINGS TO CLAMP RINGS

Refer to **Versalok Fastening System** installation.

Slide Header Support Castings (one per Climber Rail) onto top set of Clamp Ring halves. Assemble top set of Clamp Ring halves around Post centered at **109-13/16"** (9' 1-13/16") from bottom end.

Assemble bottom set of Clamp Ring halves around Post centered at **94"** (7' 10") from bottom end. Loosely assemble Bar Sockets (one per Climber Rail) onto bottom Clamp Ring.



### STEP 3 SET POST INTO FOOTING

Set Post into Footing. Ensure that bottom Clamp Ring is centered at **70"** (5' 10") from subgrade (compacted soil level) and **58"** (4' 10") from Finished Grade (protective surfacing level.)



## Peak Climber - 2-Way, 3-Way & 4-Way

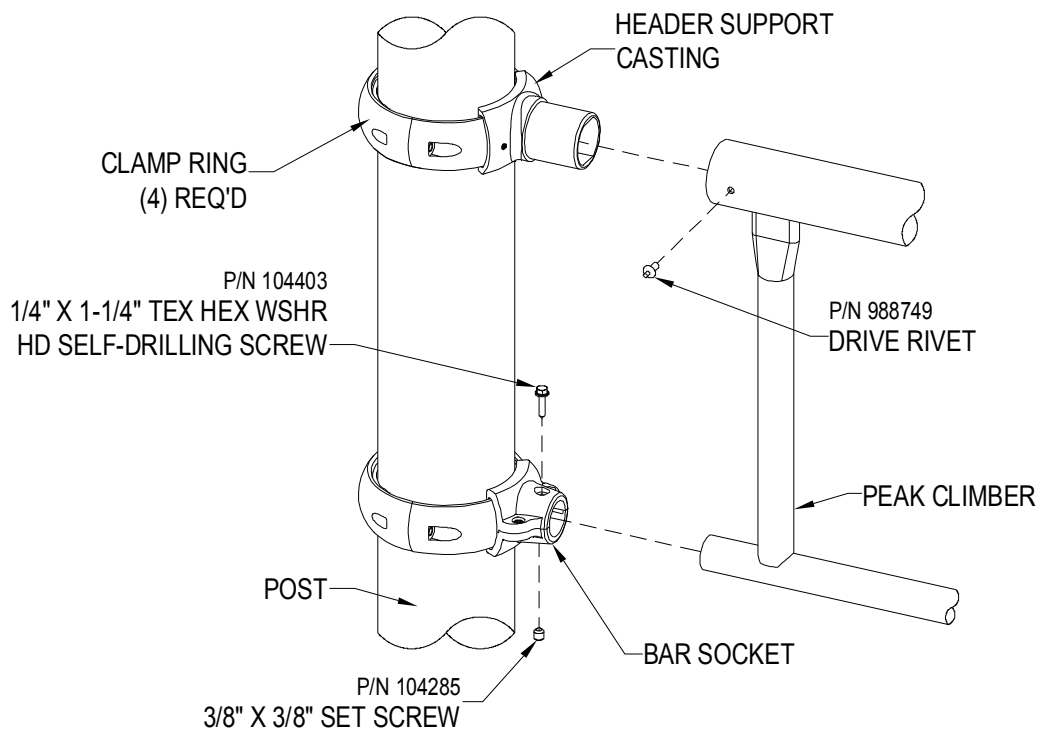
### STEP 4 ATTACH PEAK CLIMBERS

Refer to **Versalok Fastening System** installation.

Set Rail into Footing, placing top rail end over Header Support (top Clamp) and bottom rail end into Bar Socket (bottom Clamp.) Plumb Post and firmly seat Rail ends against Post. Ensure that horizontal sections of Rail are level. Brace Post and Rail in position to prevent movement.

Using pre-drilled hole in top rail as a guide, drill **1/4"** hole into Header Support Casting. Fully seat drive rivet and strike pin with hammer to expand. Secure bottom rail in Bar Socket as shown.

Repeat process for remaining Rail(s.) Ensure that Climber Rails are oriented correctly, and tighten Bar Socket and Header Support against Clamp. Brace in position when complete.



### FINAL STEP

Proceed with **Final Assembly** installation.

# Bill of Materials

## Peak Climber - 2-Way, 3-Way & 4-Way

Peak Climber

QUANTITY	PART #	DESCRIPTION
----------	--------	-------------

### MODEL # 4382 - 2-WAY PEAK CLIMBER

1	714552	POST 5" OD X 136" 3'-5' DECKS
2	987716P	PEAK CLIMBER WELDMENT
1	987806P	PARTS CARTON, MODEL 4382, POLE CLAMPS
2	987807P	PARTS CARTON, MODEL 4382, CLAMP STUBS

### MODEL # 4383 - 3-WAY PEAK CLIMBER

1	714552	POST 5" OD X 136" 3'-5' DECKS
3	987716P	PEAK CLIMBER WELDMENT
1	987806P	PARTS CARTON, MODEL 4382, POLE CLAMPS
3	987807P	PARTS CARTON, MODEL 4382, CLAMP STUBS

### MODEL # 4384 - 4-WAY PEAK CLIMBER

1	714552	POST 5" OD X 136" 3'-5' DECKS
4	987716P	PEAK CLIMBER WELDMENT
1	987806P	PARTS CARTON, MODEL 4382, POLE CLAMPS
4	987807P	PARTS CARTON, MODEL 4382, CLAMP STUBS

### PARTS CARTON # 987806P CONTENTS:

4	713010P	CLAMP RING 5" DIA
4	104749	BOLT 1/4-20 X 1 1/4 BHCS 6 LOBE 18-8 SS
4	104403	BOLT 1/4-14 X 1 1/4 TEK HEX WSHR HD SERR
4	104942	INSULATOR, SCREW, 1/4 DIA HOLE X 3/8

### PARTS CARTON # 987807P CONTENTS:

1	986903P	BAR SOCKET 5" OD TOP HALF WITH HOLE
1	986153P	HEADER SUPPORT CASTING
1	713003P	BAR SOCKET 5" OD BOTTOM HALF
2	104750	BOLT 1/4-20 X 5/8 BHCS 6 LOBE 18-8 SS
1	104366	BOLT 1/4 X 1 TEK WSHR HEX HD 18-8 SS
1	104285	BOLT 3/8-16 X 3/8 SKT SET SCREW 18-8 SS
1	987705	SCREW, SET 10-24 X 5/16 18-8 SS
1	988749	DRIVE RIVET, NAIL-IN, 100 PER PKG.

## Miracle Timbers

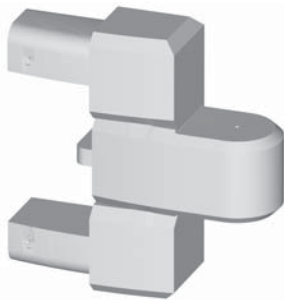
Male & Female Length Adapters, Single & Double Stacked Sections, Timber Opening Kit

***IMPORTANT NOTE:*** *Miracle Timbers are not structural components. They are intended only to contain engineered surfacing for fall zones around playground equipment. They are not intended for retention of soil or heavy backfill.*

### 440 & 440R\*

#### Male Length Adapter

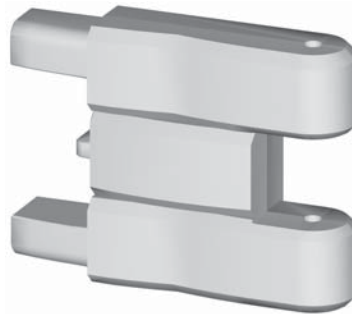
\* Model # 440R Male Length Adapter (Recycled)  
differs in material only.



### 440-1 & 440-1R\*

#### Female Length Adapter

\* Model # 440-1R Female Length Adapter (Recycled)  
differs in material only.



Models used to reduce length of Timber Section(s) when needed to fit closure.

### 440-12 & 440-12R\*

#### Single Timber Section

\* Model # 440-12R Single Timber Section (Recycled)  
differs in material only.



Two (2) Single Timber Sections shown for position.



## Miracle Timbers

### 440-24 & 440-24R\*

#### Double Stacked Timber Section

\* Model # 440-24R Double Stacked Timber Section (Recycled)  
differs in material only.

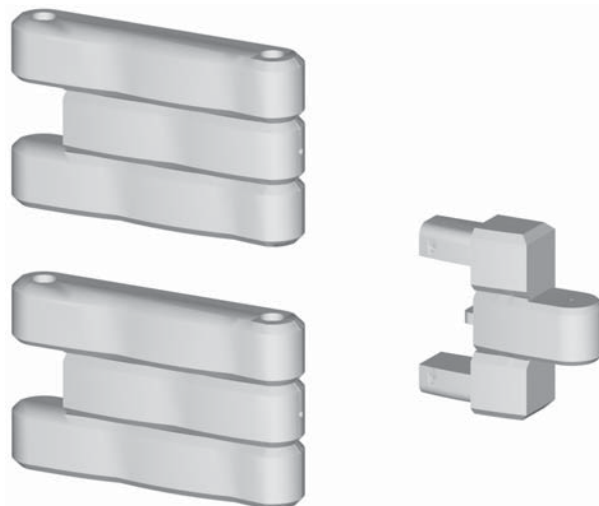


Two (2) Double Stacked Sections shown for position.

### 440-3 & 440-3R\*

#### Timber Opening Kit

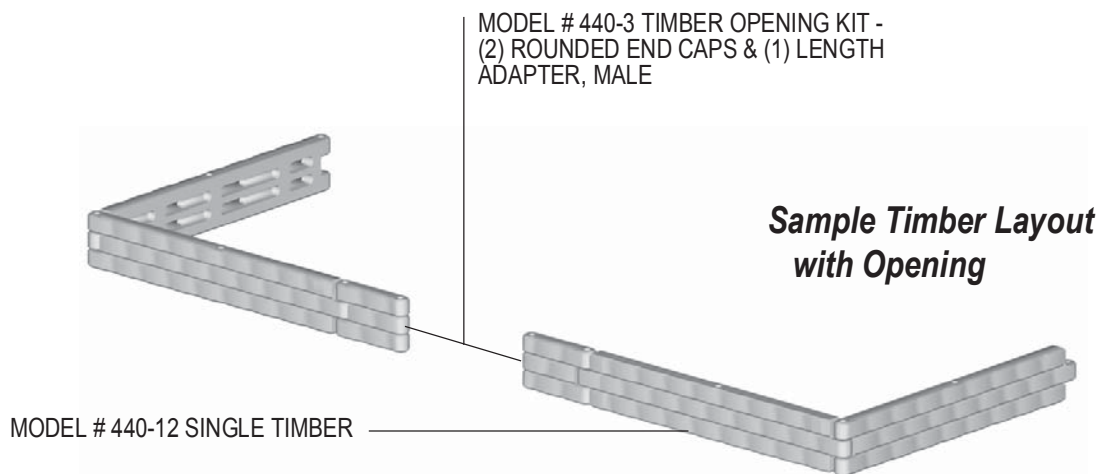
\* Model # 440-3R Timber Opening Kit (Recycled)  
differs in material only.



Model includes two (2) Rounded End Caps and one (1) Male Length Adapter.

## Miracle Timbers

### PARTS IDENTIFICATION



### RECOMMENDED ASSEMBLY SEQUENCE

1. Mark playsystem or playground perimeter (surpassing Use Zone)
2. Position and stake Timbers
3. Length Adapter to close, if required
4. Timber Opening Kit, if required
5. Access Ramp (Model # 440-6 or # 440-6R), if required - per separate instructions
6. Final Assembly

### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, if required; wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings, if required (spade shovel, post hole digger, auger)
3. Tape measure and level
4. If *Length Adapter* or *Timber Opening Kit* installed: handsaw or hacksaw, screwdriver (battery-powered screwdriver recommended), Phillips head bit
5. Sledge hammer
6. Adult installer

## Miracle Timbers

Installation instructions for **Model # 440-12 (and -12R)** Single Timber Sections and **Model # 440-24 (and -24R)** Double Stacked Timber Sections begin with **Step 1** below.

Instructions for **Model # 440 (and 440R)** and **Model # 440-1 (and 440-1R)** Length Adapters start on **page 7**. Instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin on **page 8**.

### **STEP 1** PREPARE FOR INSTALLATION

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

### **STEP 2** DETERMINE MINIMUM USE ZONE

Refer to "Use Zone" drawing (elsewhere in this Installation Manual) to determine minimum required Use Zone of playsystem or playground. Timbers must be installed to contain entire Use Zone area without touching or impeding area.

Mark or stake Timber Layout, being careful not to overlap Use Zone at any location. Note that at closure location, Timbers may overlap, requiring installation of a *Length Adapter* (Model # 440, # 440R, # 440-1, or # 440-1R.)

**Install Tip:** Generally, if Timbers are intended to contain Use Zone with aid from another barrier (such as building wall, fence, etc.), begin layout at barrier. If Timbers will contain Use Zone without aid of other barriers, starting/ending point is at installers' discretion. Many installers prefer to start layout with Timber Opening (see **Step 8** on **page 8**) or with Access Ramp (Model # 440-6 or # 440-6R) per separate instructions. Many also prefer to "conceal" connection of Length Adapter and Timber by closing at least conspicuous side of playground.

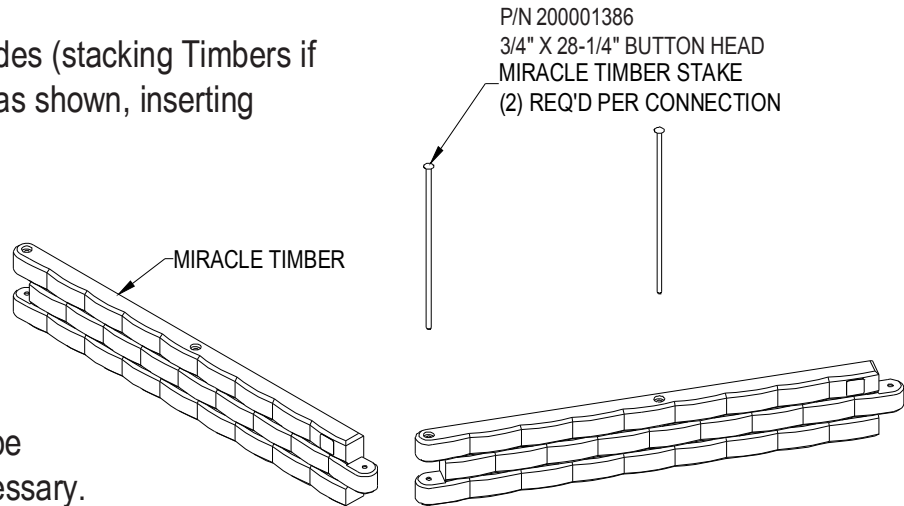
## Miracle Timbers

### STEP 3 POSITION AND STAKE TIMBERS

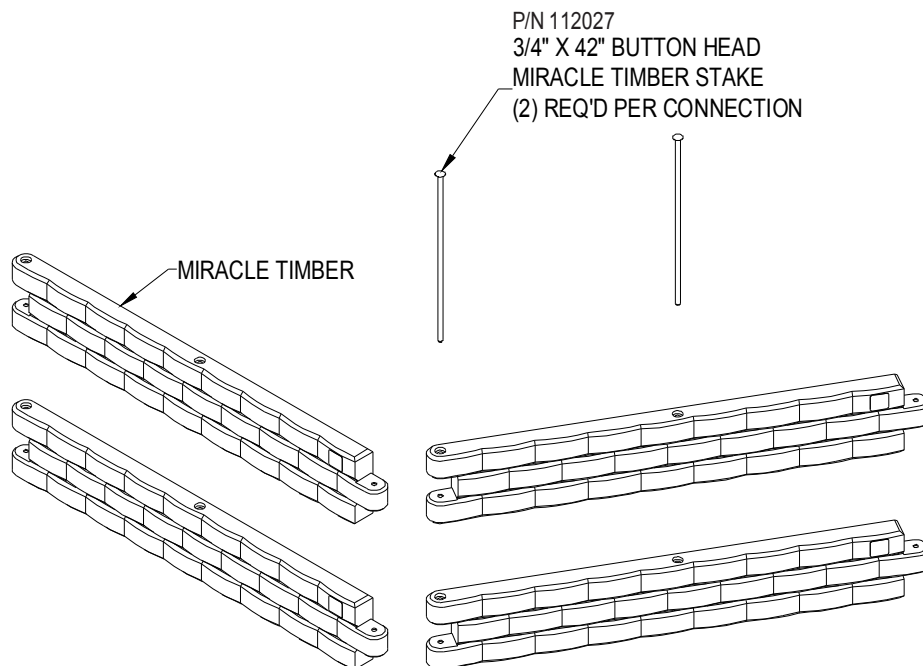
Set Timbers on ground end-to-end per Layout, with formed "brick" side of Timbers facing outward away from playsystem. See orientation note below.

Stand Timbers on their sides (stacking Timbers if necessary) and interlock as shown, inserting Stakes to hold Timbers together in place, but do not yet drive Stakes into ground.

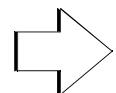
By not driving Stakes into ground at this point, connected Timbers may be repositioned easily if necessary.



*Note: A molded-in "Miracle logo" on the outside should be oriented upright (legible), and recesses at stake locations must be on top side of top Timber Sections, so that stake heads may be driven flush. Therefore, male ends of Timbers will be on right and female ends on left (when viewed from outside closure.)*



CONNECTION FOR DOUBLE STACKED EDGES



## Miracle Timbers

### **STEP 4** OPTIONAL FOOTINGS

#### **OPTIONAL FOOTINGS FOR TIMBERS AT RISK OF BEING STOLEN OR VANDALIZED:**

*Note: It is generally acceptable to SKIP THIS STEP, unless installation location is characterized by particularly high crime, extreme seclusion, etc.; again, customers' discretion.*

With Timbers loosely connected with Stakes, mark locations of Stakes on ground at interlocking connections. Set Timbers aside and dig footings **8" diameter** by **18" deep** from subgrade.

When all footings are dug, replace and re-connect Timbers two-at-a-time, placing Stake through interlocking connections into footing holes and ensuring Stake heads are flush with Timber edge. Pour concrete to subgrade level at each footing, and verify that Timber sections are plumb and level before proceeding to next set.

***Note: Allow concrete to cure for 72 hours before loading Use Zone with protective surfacing material.***

### **STEP 5** TIMBER CLOSURE, IF POSSIBLE

Verify that Use Zone for playsystem is completely enclosed without intersecting Timber framework at any point, and that Timbers are plumb, level and straight (if desired.)

If Timber framework achieves closure without length adjustment, place remaining Stakes into Timbers and drive so that heads are flush with recessed holes. Proceed to **Final Step**.

If installation of a *Length Adapter* is required to close Timbers, proceed to **Step 6**.

If installing *Timber Opening*, proceed to **Step 8** on **page 8**.

## Miracle Timbers

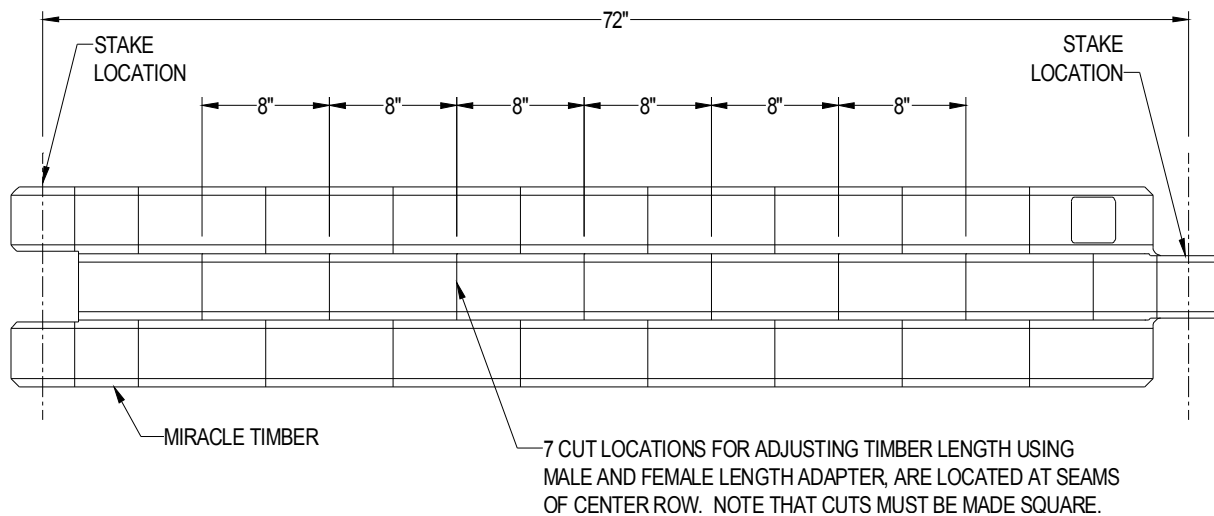
Instructions for **Model # 440 (and 440R)** and **Model # 440-1 (and 440-1R)** Length Adapters start with **Step 6** below.

Installation instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin on **page 8**.

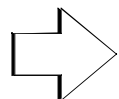
### **STEP 6** CUT TIMBERS FOR CLOSURE, IF NECESSARY

If length of final Timber requires adjustment to achieve framework closure, measure overlap between two Timbers, accounting for width of Male or Female Length Adapter to be installed, and use illustration below to determine location of cut. Each Timber contains seven (7) cut locations, based on seams of center row. Cuts must be made square for Length Adapter to fit properly and for good appearance.

**Note: Installers must cut at location shown or Length Adapter will not fit!**



Length between outer Stakes (at interlocking connections) is **72"**. Timber lengths that can be made using Length Adapters are **64", 56", 48", 40", 32", 24"** and **16"**.

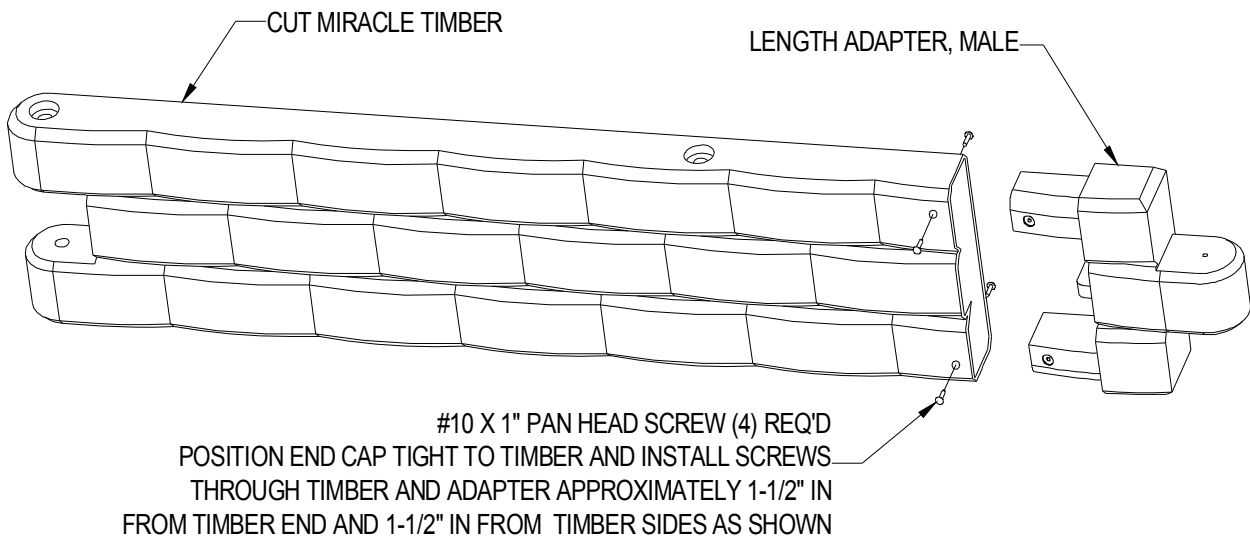


## Miracle Timbers

### **STEP 7** INSERT LENGTH ADAPTER, IF NECESSARY

Cut Timber squarely at location determined in **Step 6**. Insert Length Adapter in open end of Timber, and use power screwdriver to secure with pan head screws as shown below.

Insert Timber/Length Adapter assembly into final Timber to close framework. Insert Stake and drive until head is flush with top of Timber. Proceed to **Final Step**.




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Installation instructions for **Model # 440-3 (and -3R)** Timber Opening Kit begin with **Step 8** below.

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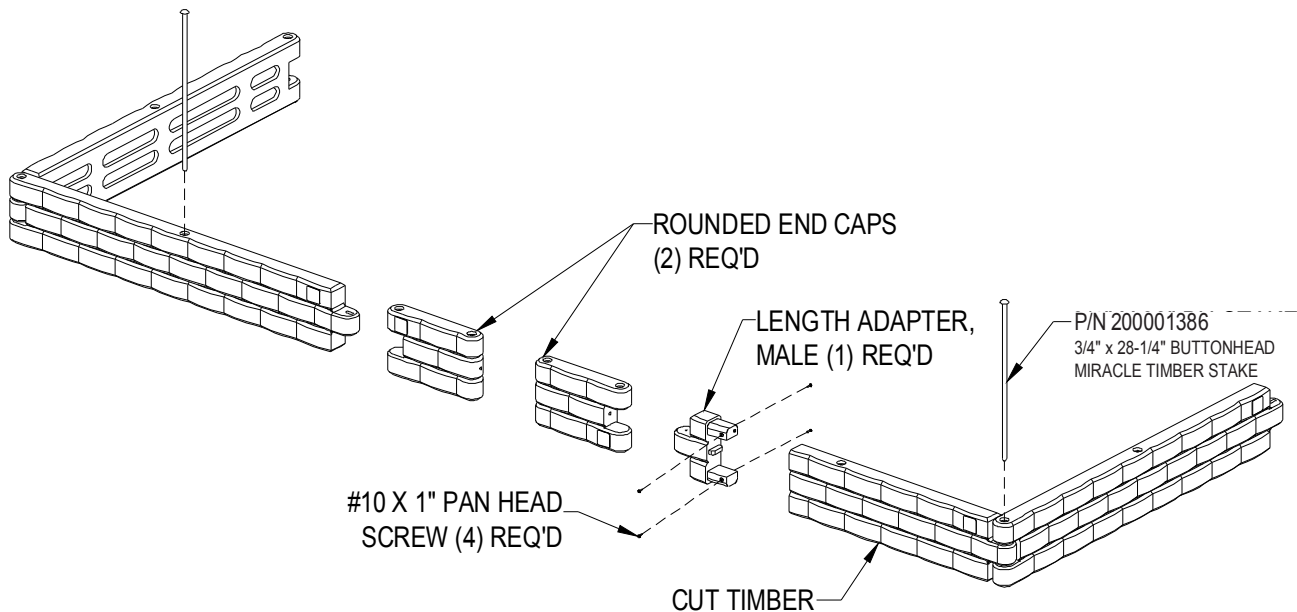
### **STEP 8** TIMBER OPENING KIT, IF REQUIRED

Determine desired location of Timber Opening in framework. Miracle recommends a minimum opening width of **36"**.

Refer to illustration on next page. Timber Opening Kit contains three (3) pieces: two (2) Rounded End Caps with one rounded end and one female end, and one (1) Length Adapter - Male, used to give a Single Timber section two male ends rather than one.

Position one End Cap against Timber section and place Stake into interlocking connection (without fully driving into ground.) Measure **36"** or greater from round surface of End Cap to create opening, place round end of second End Cap at mark, and temporarily stake as before.

## Miracle Timbers



### **STEP 9** CUT TIMBER, IF NECESSARY

Refer to *Length Adapter* installation instructions in **Step 6** and **Step 7**.

Measure from end of Single Timber, accounting for width of Length Adapter, and determine location to cut. Cut Timber squarely, insert Length Adapter into open end, and secure to Timber with pan head screws as shown in **Step 7**.

### **STEP 10** PLUMB AND LEVEL TIMBERS; INSERT STAKES INTO END CAPS

Position second Rounded End Cap onto attached Length Adapter, and verify Timbers and opening pieces are plumb, level and straight (if desired.) Insert and drive Stakes (two each) in both End Caps until heads are flush with top of Timber.

### **FINAL STEP**

Verify that concrete is fully cured (if applicable) and that all Stakes are driven until flush with top of Timbers. Fill enclosure with protective surfacing material. Proceed with **Final Assembly** installation.



# Bill of Materials

## Miracle Timbers

QUANTITY	PART NO.	DESCRIPTION
<b>MODEL # 440 MALE LENGTH ADAPTER</b>		
1	985385P	MALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440R MALE LENGTH ADAPTER (RECYCLED)</b>		
1	985385RE	END CAP-MIRACLE TIMBER (RECYCLED BLACK)
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-1 FEMALE LENGTH ADAPTER</b>		
1	988778P	FEMALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-1R FEMALE LENGTH ADAPTER (RECYCLED)</b>		
1	988778RE	FEMALE LENGTH ADAPTER-MIRACLE TIMBER RE
1	985429	PARTS CARTON 440 & 440R (SEE BELOW FOR CONTENTS)
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-12 SINGLE TIMBER SECTION</b>		
1	112602P	MIRACLE TIMBER
<b>MODEL # 440-12R SINGLE TIMBER SECTION (RECYCLED)</b>		
1	112602RE	TIMBER REGRIND
<b>MODEL # 440-24 DOUBLE-STACKED TIMBER SECTION</b>		
2	112602P	MIRACLE TIMBER
2	112027	STAKE 42" GALV FOR 24" HIGH KID TIMBER
<b>MODEL # 440-24R DOUBLE-STACKED TIMBER SECTION (RECYCLED)</b>		
2	112602RE	TIMBER REGRIND
2	112027	STAKE 42" GALV FOR 24" HIGH KID TIMBER

Miracle Timbers

440, 440R, 440-1, 440-1R, 440-12, 440-12R, 440-24, 440-24R, 440-3, 440-3R

## Miracle Timbers

QUANTITY	PART NO.	DESCRIPTION
<b>MODEL # 440-3 TIMBER OPENING KIT</b>		
1	985385P	MALE LENGTH ADAPTER - MIRACLE TIMBER
1	985429	PARTS CARTON (SEE BELOW FOR CONTENTS)
2	986101P	ROUNDED END CAP - MIRACLE TIMBER
3	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH KID TIMBER
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD
<b>MODEL # 440-3R TIMBER OPENING KIT (RECYCLED)</b>		
1	985385RE	END CAP-MIRACLE TIMBER (RECYCLED BLACK)
1	985429	PARTS CARTON (SEE BELOW FOR CONTENTS)
2	986101RE	ROUNDED END CAP - MIRACLE TIMBER RECYCLE
3	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH KID TIMBER
<b>PARTS CARTON # 985429 CONTENTS:</b>		
4	104426	SCREW #10 X 1 TYPE A TAPPING PH PAN HD

Miracle Timbers

440, 440R, 440-1, 440-1R, 440-12, 440-12R, 440-24, 440-24R, 440-3, 440-3R

## Access Ramp for Miracle Timbers

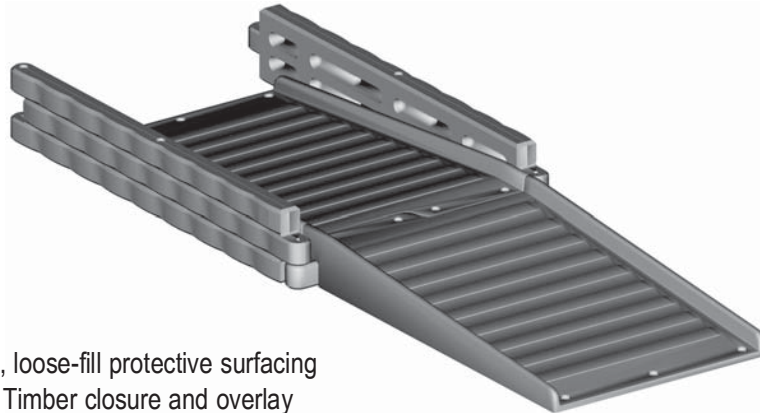
**Access Ramp for Miracle Timbers** including (2) Ramp Sections,  
(1) Single Timber (regular), (1) Single Timber With Two Male Ends, and (13) Stakes

***IMPORTANT NOTE:*** *Miracle Timbers are not structural components. They are intended only to contain engineered surfacing for fall zones around playground equipment. They are not intended for retention of soil or heavy backfill.*

**440-6 and 440-6R\***

### Access Ramp for Miracle Timbers

\* Model # 440-6R Access Ramp (Recycled) for Miracle Timbers differs in material only. Installation is identical.



Upon installation, loose-fill protective surfacing material must fill Timber closure and overlay enclosed section of Access Ramp to apex level. See detail in Final Step.

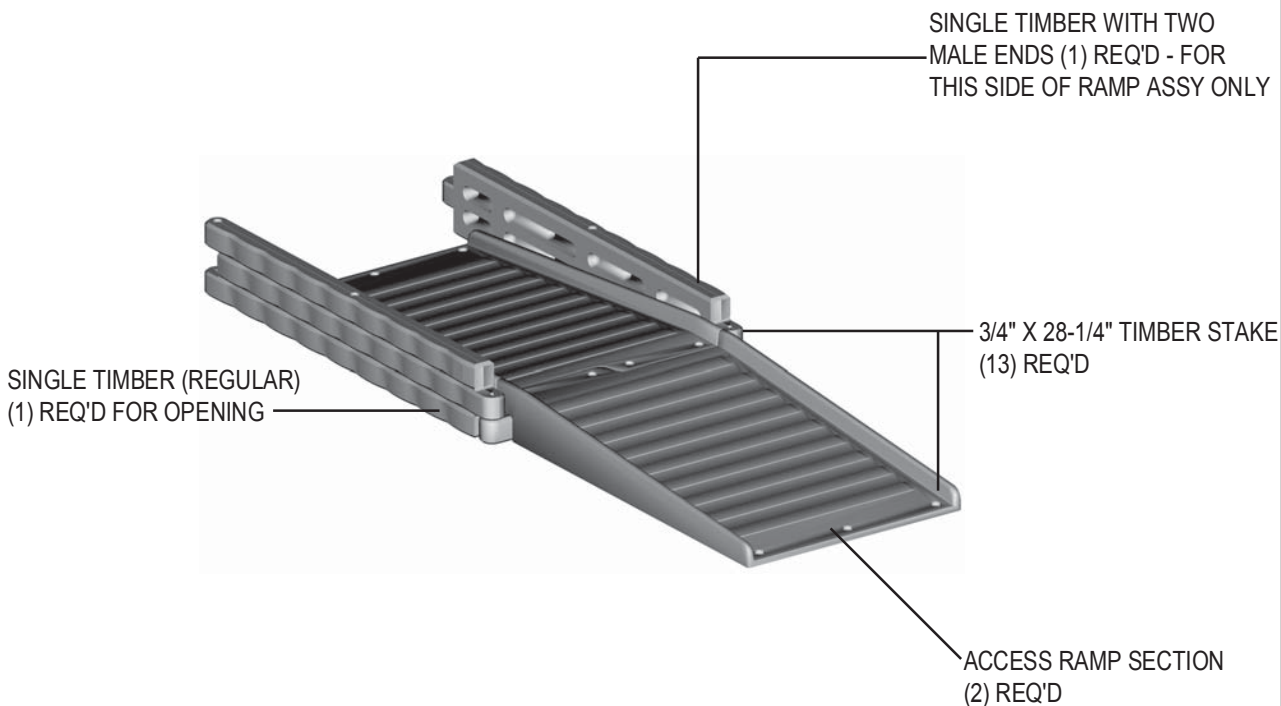
## TOOLS AND EQUIPMENT REQUIRED

Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"

1. Tape measure and level
2. Sledge hammer
3. Adult installer

## Access Ramp for Miracle Timbers

### PARTS IDENTIFICATION



### STEP 1 LAYOUT & STAKE TIMBER CLOSURE

**NOTE:** Ramp may be installed as a 6' ramp extension or a 12' ramp extension. For instructions on installing a 6' Ramp, see Step 2. For instructions on installing a 12' Ramp, see Step 3.

Install playsystem and pour concrete for footings. Layout and stake Timber closure per separate instructions. Refer to **Miracle Timbers** installation (# 440 et. al.) Ramp width requires **40"** opening in Timber closure.

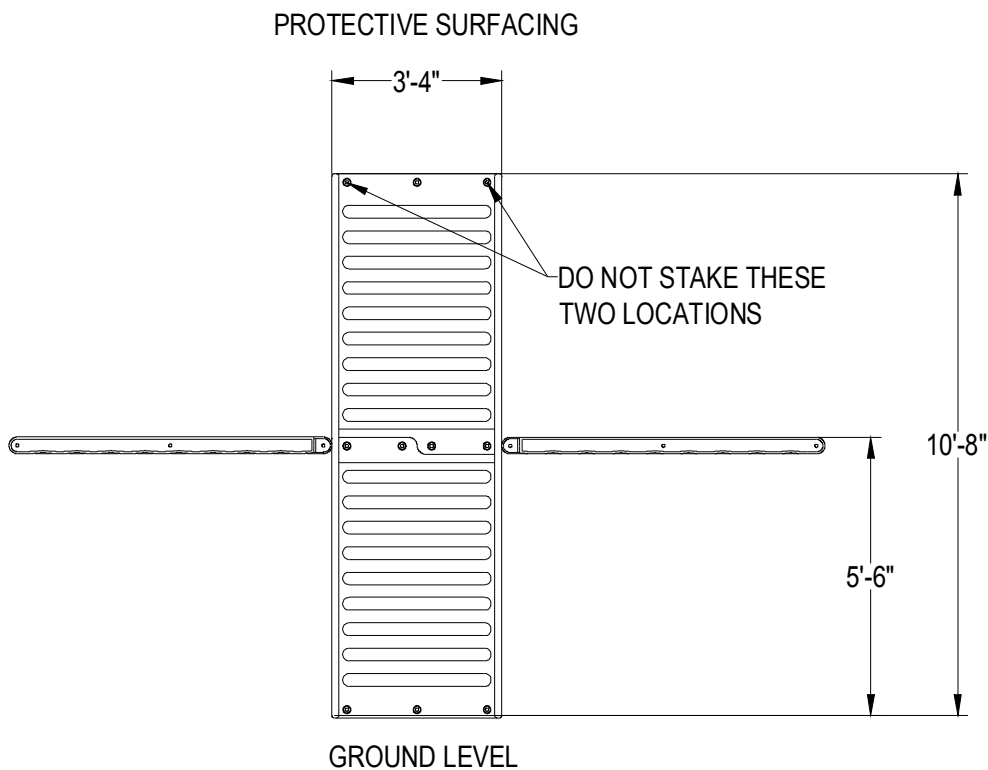
## Access Ramp for Miracle Timbers

### STEP 2 CREATE 6' RAMP EXTENSION

See Parts ID on page 2. Position interlocking Ramp Sections together between Single Timbers. Align mounting stubs on Ramp sides with holes in male ends of Single Timbers.

Attach Single Timber (regular) and Single Timber With Two Male Ends at midpoint of Ramp Sections. *Ensure Ramp does not intersect with equipment safety zones.*

Drive stakes through mating holes in Ramp Sections, through holes at ends of Ramp Sections, and through male ends of Timbers and mounting stubs of Ramp Assembly.



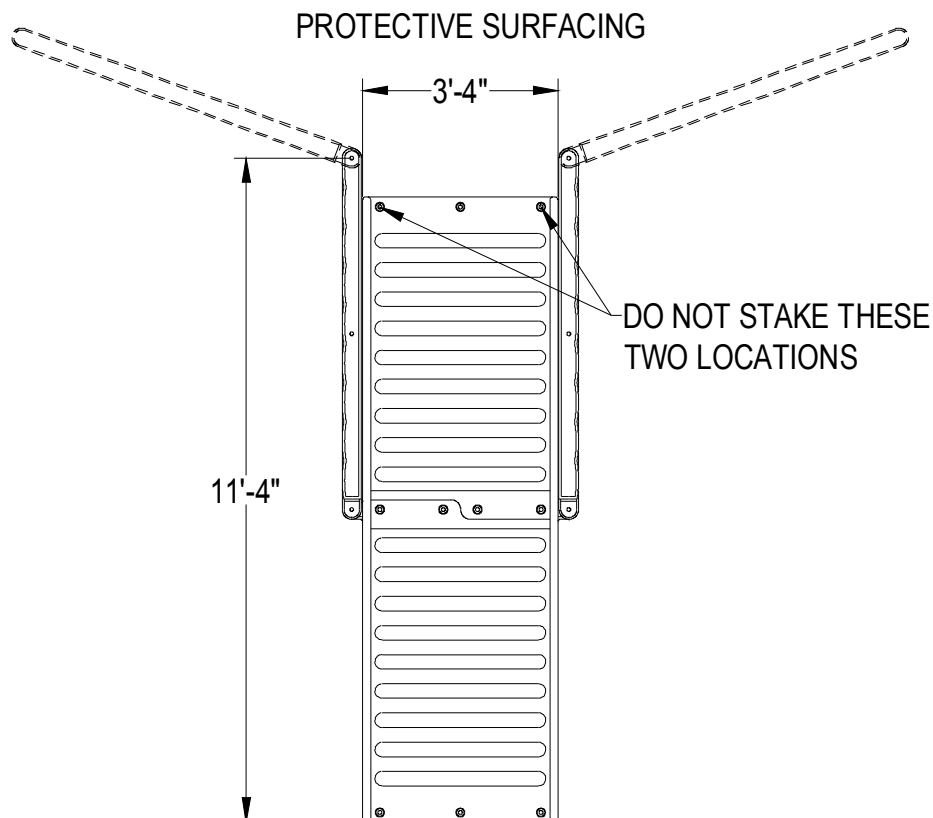
## Access Ramp for Miracle Timbers

### STEP 3 CREATE 12' RAMP EXTENSION

Attach Single Timber (regular) and Single Timber With Two Male Ends to closure at opening, parallel with each other, with 40" span between inner surfaces for Ramp Sections.

See Parts ID on page 2. Position interlocking Ramp Sections together between Single Timbers. Align mounting stubs on Ramp sides with holes in male ends of Single Timbers. *Ensure Ramp does not intersect with equipment safety zones.*

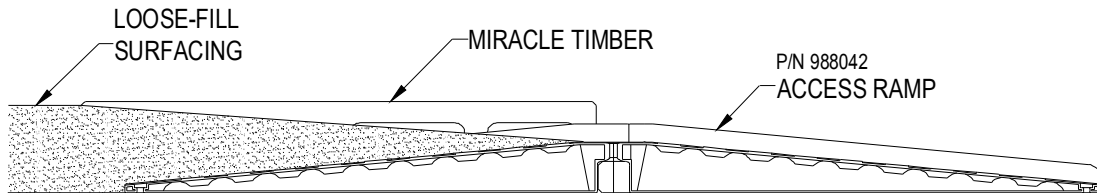
Drive stakes through mating holes in Ramp Sections, through holes at ends of Ramp Sections, and through male ends of Timbers and mounting stubs of Ramp Assembly.



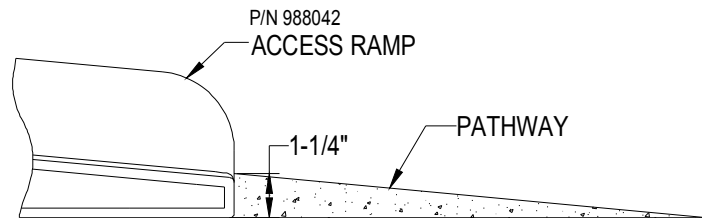
## Access Ramp for Miracle Timbers

### FINAL STEP

Proceed with **Final Assembly installation**. Fill Timber closure with loose-fill surfacing. Allow protective surfacing materials to gradually slope downward until they meet Access Ramp's apex as shown in "cut-away" side view.



**Note: Leading edge of Ramp is 1-1/4" high. Pathway must be constructed to meet this edge at same height. Pathway and loose-fill surfacing must meet ADA standards for wheelchair access.**



## Bill of Materials

QTY	PART #	DESCRIPTION
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### MODEL # 440-6 ACCESS RAMP FOR MIRACLE TIMBERS

2	988042P	ACCESS RAMP-MIRACLE TIMBERS
11	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH TIMBER
1	112602P	MIRACLE TIMBER
1	988103P	MIRACLE TIMBER WITH TWO MALE ENDS

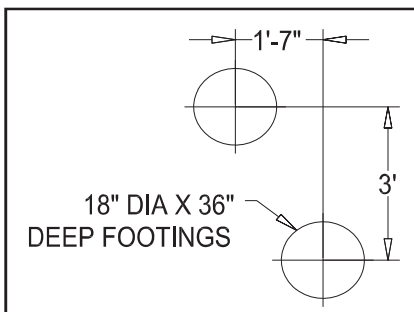
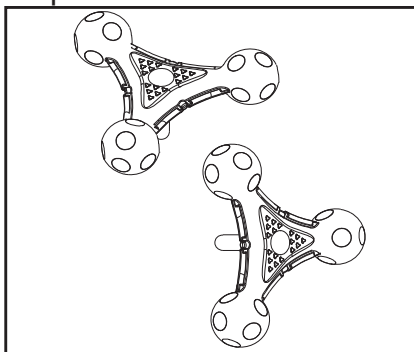
### MODEL # 440-6R ACCESS RAMP FOR MIRACLE TIMBERS (RECYCLED)

2	988042BK	ACCESS RAMP-MIRACLE TIMBERS (RECYCLED BK)
11	200001386	STAKE 28-1/4" GALV. FOR 12" HIGH TIMBER
1	112602RE	TIMBER REGRIND
1	988103RE	MIRACLE TIMBER WITH TWO MALE ENDS

## Physics™ JAX® Pack - Two

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

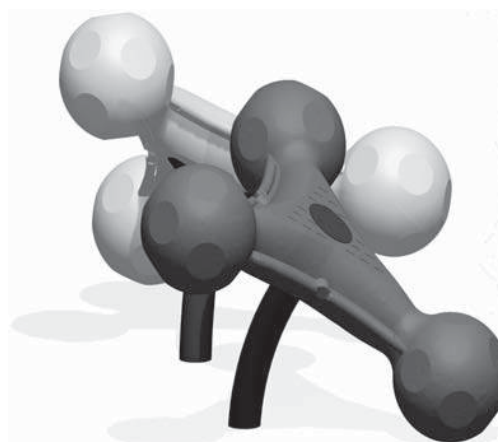
Top View



Footing Layout

**477-002**

**JAX Pack - Two**



Protective Area: 20' x 22'

### TOOLS AND EQUIPMENT REQUIRED

Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"

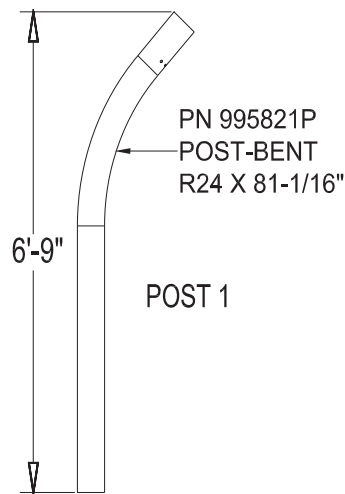
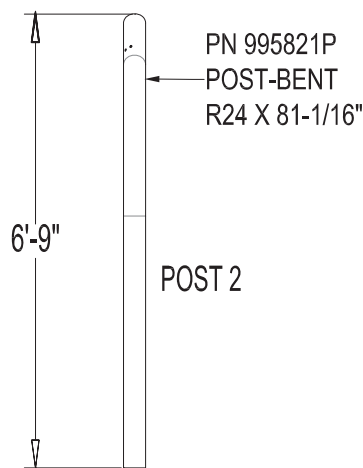
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Adult installers - 2 minimum



## Physics™ JAX® Pack - Two

### STEP 1 IDENTIFY POST AND BASE SUPPORT CLOCKING

- 1a. The success of the JAX Pack-Two installation is based on proper post identification and base support clocking.
- 1b. It is important to note that Post 1 and Post 2 are *THE SAME POST*, however, they have two (2) sets of holes drilled in them for base support installation and are placed in footings at different angles.



### STEP 2 DIG FOOTINGS; AFFIX SURFACING LABEL

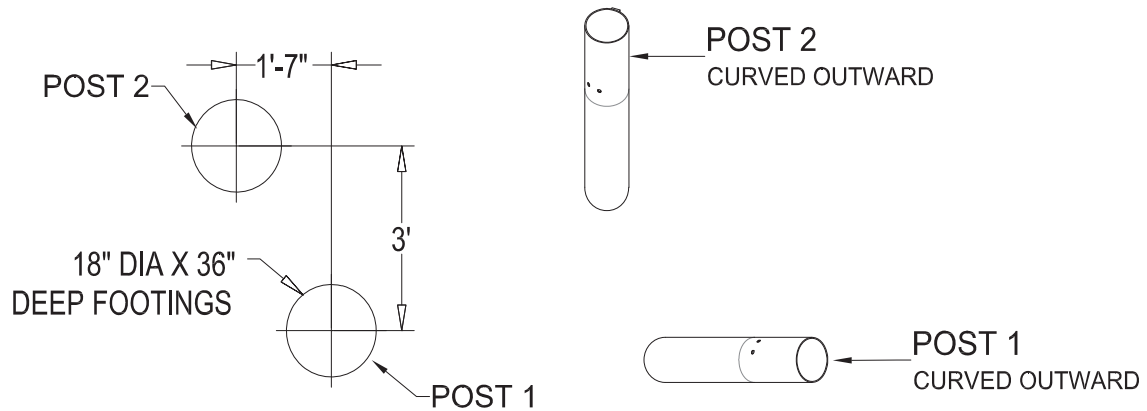
- 2a. Dig Footings per *Footing Layout* or Construction Drawings. Refer to **Footing Details installation** located behind *Installations 101* in Installation Manual.
- 2b. Measure up **48"** from bottom of one post and place "Top of Surfacing" label at this location.

*Note: Do not pour concrete until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*

## Physics™ JAX® Pack - Two

### STEP 3 DETERMINE CORRECT POST PLACEMENT

3a. Jax posts **MUST** be placed into footings as shown below. Loosely set posts into footings in approximate positions, reference step 1 on page 2.

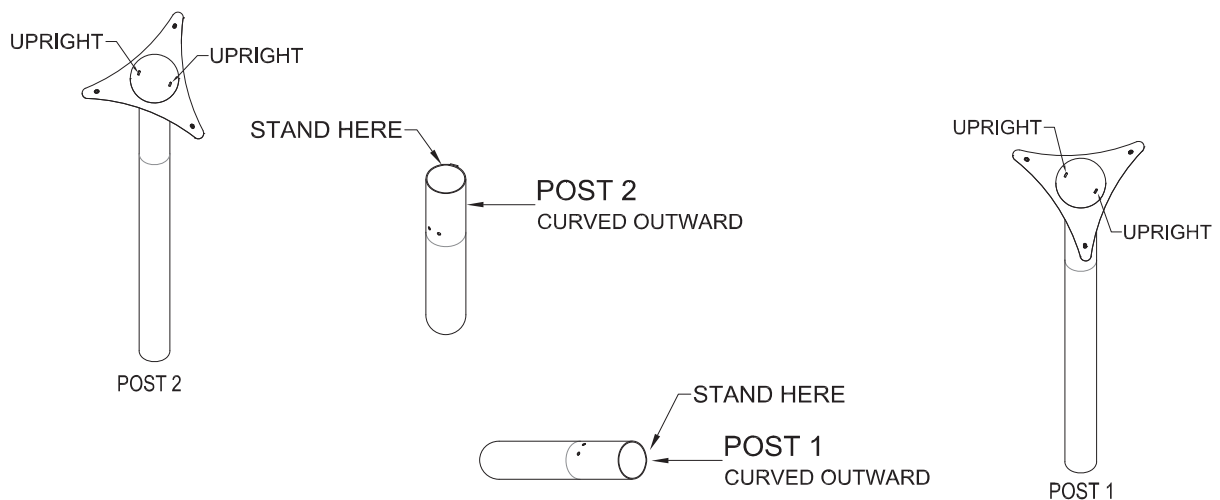


### STEP 4 DETERMINE CORRECT BASE SUPPORT CLOCKING

4a. The following graphics show correct base support clocking. Graphics show clocking as if you were standing with each post's curve **FACING** you.

*Note: Proper clocking is based on base support uprights, which will **DIRECTLY** correspond with notches in each Jax.*

*Important Note: DO NOT attach base support to post until clocking is correct!*

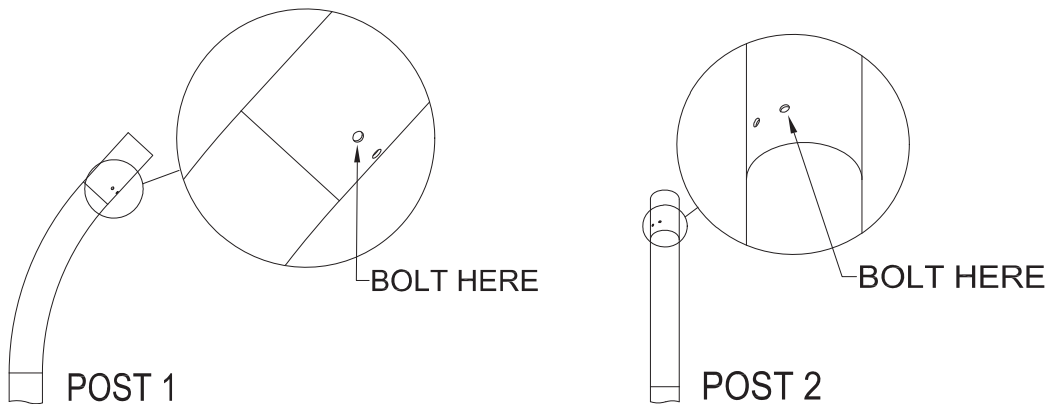


# Physics™ JAX® Pack - Two

## STEP 5 BOLT BASE SUPPORT TO POSTS

5a. Once proper clocking is determined, slide base support over post and line up bottom bolt hole in base support uprights with hole in post.

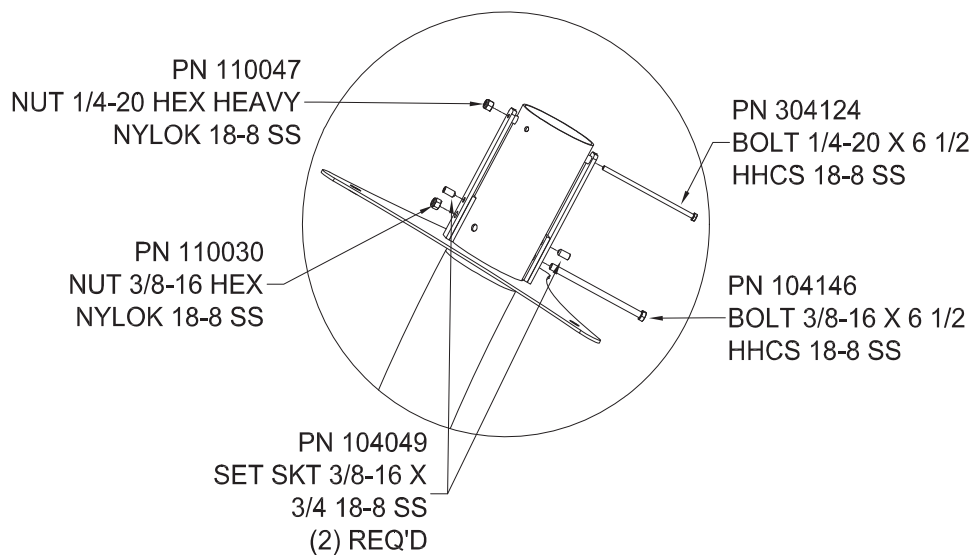
*Important Note: Post 1 and 2 have different bolting locations. See illustrations below prior to installing hardware!*



5b. Secure base support to post, with bolts, in both posts as shown above. Verify correct bolt is used for each hole, as shown below.

5c. Insert set screws in holes above bottom bolt and secure uprights to post.

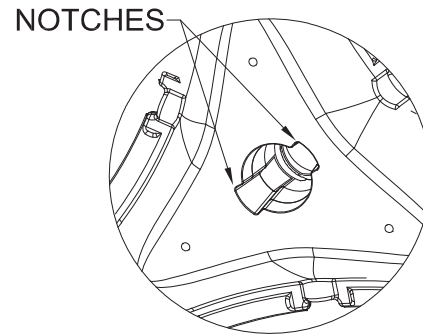
*Note: Do not overtighten!*



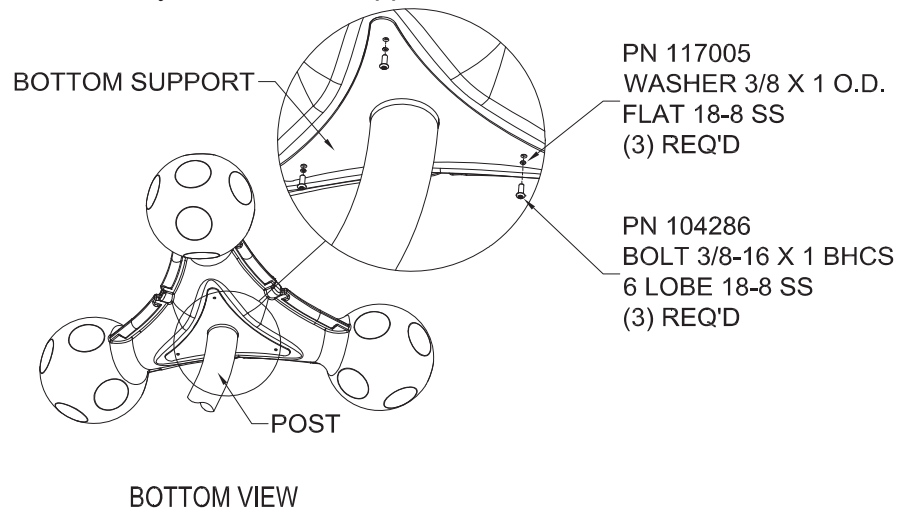
# Physics™ JAX® Pack - Two

## STEP 6 INSTALL JAX ON BASE SUPPORT

- 6a. Set Jax on bottom support, with uprights aligned with notches, in Jax body and the support plate aligned with recess on bottom of Jax body.



- 6b. Fasten Jax body and bottom support as shown below.



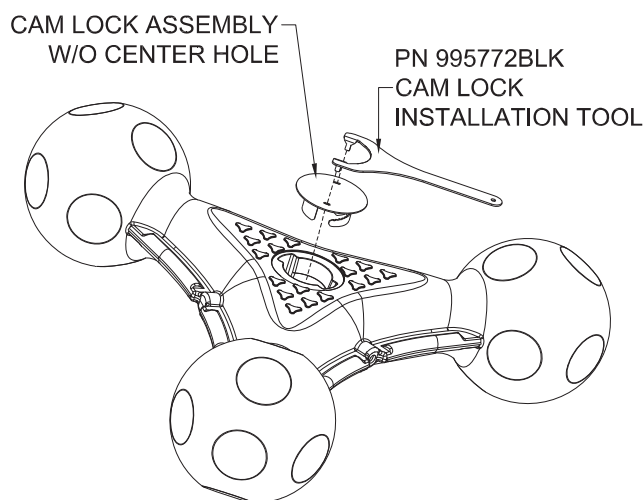
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## Physics™ JAX® Pack - Two

### STEP 7 INSERT AND TIGHTEN CAM LOCK ASSEMBLY

- 7a. Set cam lock assembly into recess in top of Jax; align slots in cam lock assembly with spacers on base support uprights (attached in step 5).
- 7b. Turn cam lock assembly clockwise until firmly secure. Do not overtighten.

*Note: Keep lock installation tool for future tightening.*



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

*Important Note: Prior to pouring concrete ensure there is a minimum of 10" between all Jax surfaces! Pour concrete and allow to cure for 72 hours prior to allowing play.*

**Physics™**  
**JAX® Pack - Two**

## Bill of Materials

**MODEL 477-002**

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
2	995821P	POST-BENT R24 X 81-1/16"
1	995543P	JAX 1 HOLE
1	995543P	JAX 1 HOLE
2	995640P	SUPPORT ASSEMBLY - CENTER HOLE
1	116048	LABEL, 2"X2" WHIT POLYESTER THERMAL
1	116049	LAMINATE, CLEAR, 2"X2" W/PERMANENT
1	999033P	PARTS CARTON - TOUCH-UP PAINT-POST
2	912289P	PARTS CARTON FOR 995543 TOP OF POST
1	996031	PARTS CARTON - JAX INSTALLATION TOOLS

**PARTS CARTON 912289P**

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
1	995645P	CAM LOCK ASSEMBLY W/O CENTER HOLE
1	HW912289-1	HRDW PKG F/JAX PSTTP S1/1

<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
3	104286	BOLT 3/8 -16 X 1 BHCS 6 LOBE 18-8 SS
3	117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS
1	104146	BOLT 3/8 -16 X 6 1/2 HHCS 18-8 SS
1	110030	NUT 3/8 -16 HEX NYLOK 18-8 SS
2	104049	SET SKT 3/8-16 X 3/4 18-8 SS
1	304124	BOLT 1/4-20 X 6-1/2 HHCS 18-8 SS
1	110047	NUT 1/4-20 HEX HEAVY NYLOK 18-8 SS
1	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS

**PARTS CARTON 996031**

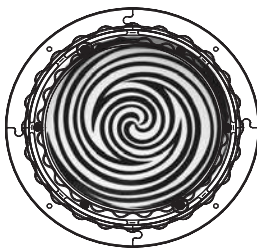
<u>QUANTITY</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>
1	995772BLK	CAM LOCK INSTALLATION TOOL

## Activity Panel Inserts

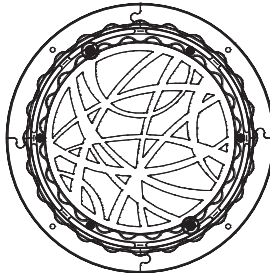
**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### ACTIVITY PANEL INSERTS

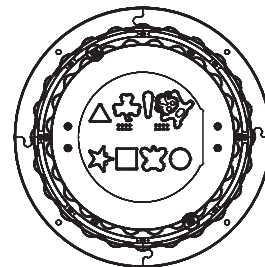
**714-715-201**  
**Hypnotize Insert**



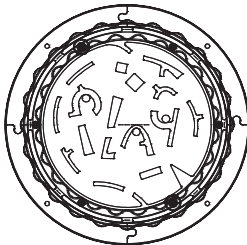
**714-715-202**  
**Funhouse Insert**



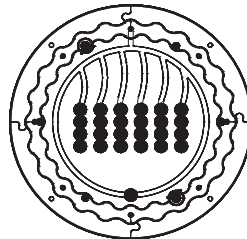
**714-715-203**  
**Very Buried Insert**



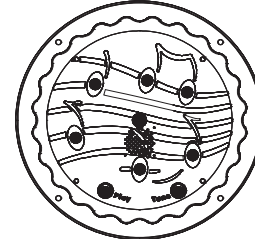
**714-715-204**  
**A-maze-ing Insert**



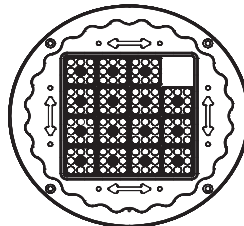
**714-715-205**  
**Four-the-Win Insert**



**714-715-206**  
**Magical Music Insert**



**714-715-207**  
**Slide & Solve Insert**



### TOOLS AND EQUIPMENT REQUIRED

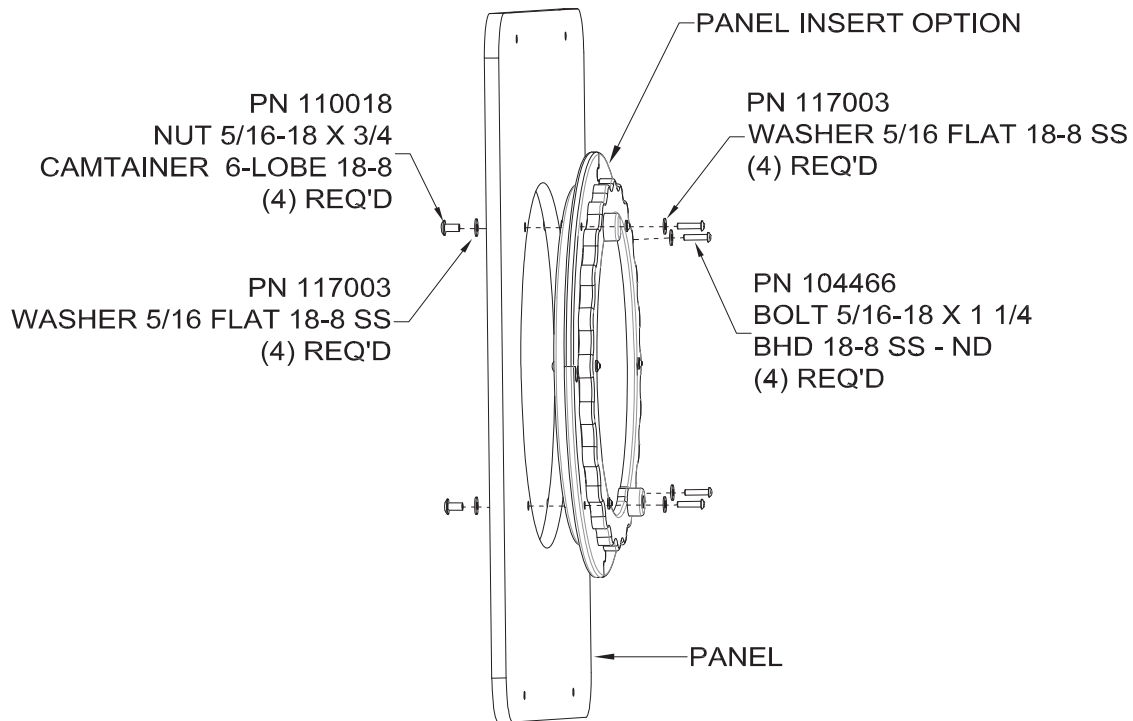
Also see "Suggested Tools & Equipment" (Doc. # D75002) in "Installations 101"

1. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
1. Drill, drill bits, extension cords, power supply
3. One adult installer

## Activity Panel Inserts

### STEP 1 ATTACH PANEL INSERT

- 1a. *Above Deck*: Attach panel insert, *always facing inside the deck*, to the activity panel frame.
- 1b. *Below Deck*: Attach panel insert, *always facing away from the deck*, to activity panel frame.



Note: Activity panel attachment *below deck* is shown.

### FINAL STEP

Refer to **Final Assembly** installation located behind *Installations 101* in Installation Manual.





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# Installation Guide

Kids' Choice®

Deck-mount models for 2'-0" Decks or lower, not included.

## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Ground-to-Deck, Between Decks or Freestanding; spans of 8', 10' & 12'

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
714-625-1	Big Timber Bongo Stump Perch	2
714-625-8	Big Timber Bongo Stump Bridge, (4) Perches; 8' Span	2
714-625-10	Big Timber Bongo Stump Bridge, (5) Perches; 10' Span	3
714-625-12	Big Timber Bongo Stump Bridge, (6) Perches; 12' Span	3
714-772-1	Bongo Perch	4
714-772-8	Bongo Bridge, (4) Perches; 8' Span	4
714-772-10	Bongo Bridge, (5) Perches; 10' Span	5
714-772-12	Bongo Bridge, (6) Perches; 12' Span	5

*NOTE: Deck Systems are NOT included in these Assemblies.*

***Please refer to Construction Drawings for the model particular to your system.***

### TOOLS AND EQUIPMENT REQUIRED

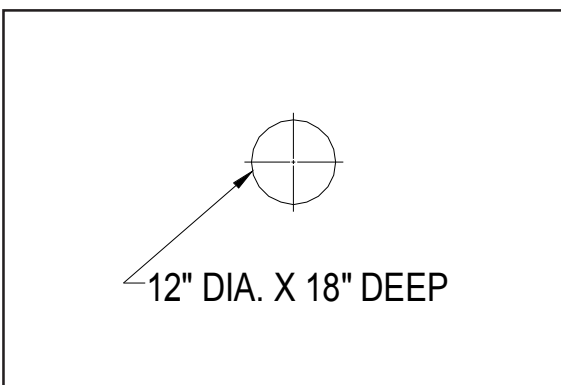
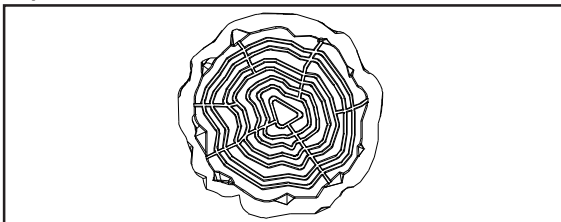
*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Tape measure and level
4. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
5. Bracing materials (2x4's, wood pieces, sawhorses, jack stands, concrete blocks, bricks, etc.)
6. Hacksaw or electric handsaw
7. Adult installers - 2 minimum

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# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

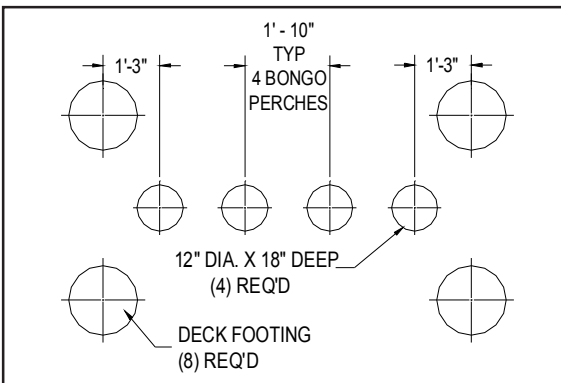
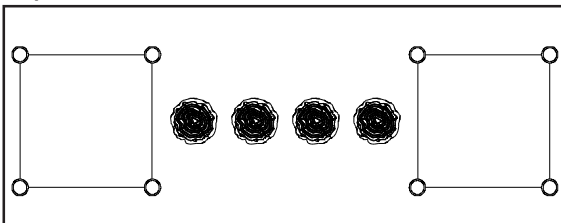
Top View



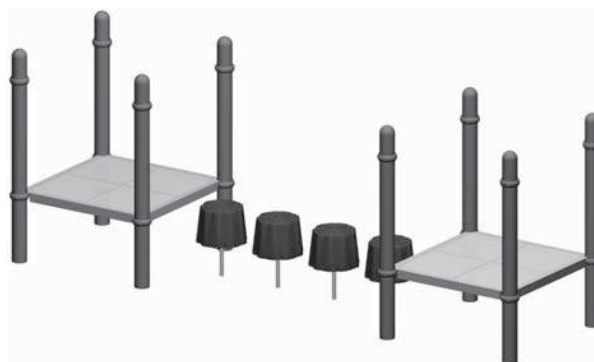
Footing Layout

**714-625-1****Big Timber Bongo  
Stump Perch**

Top View



Footing Layout

**714-625-8****Big Timber Bongo Stump Bridge,  
(4) Perches; 8' Span**



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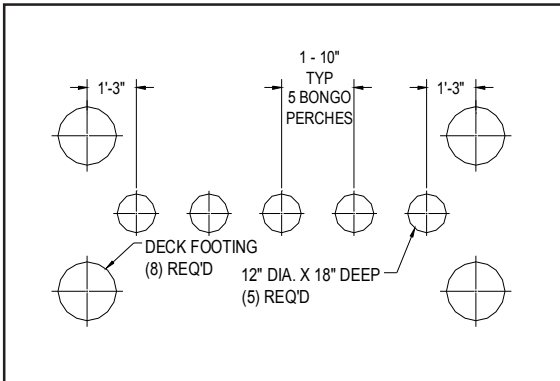
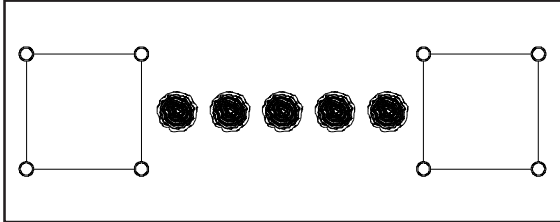
Kids' Choice®

## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

December 16, 2008

Rev. E

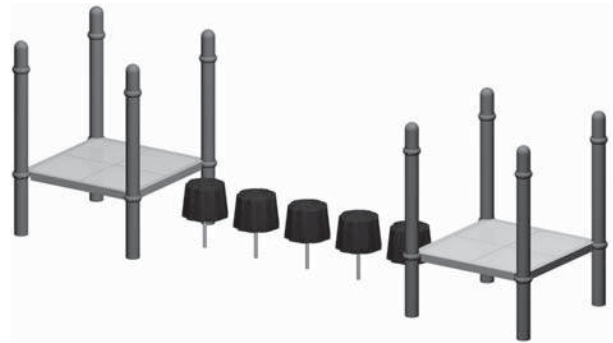
Top View



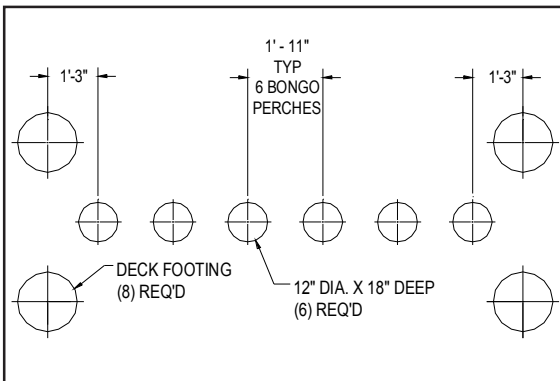
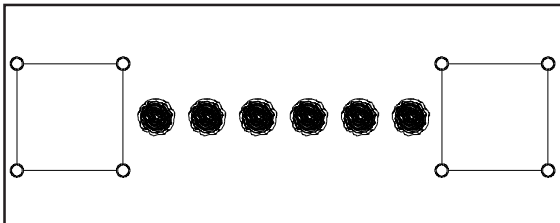
Footing Layout

**714-625-10**

**Big Timber Bongo Stump Bridge,  
(5) Perches; 10' Span**



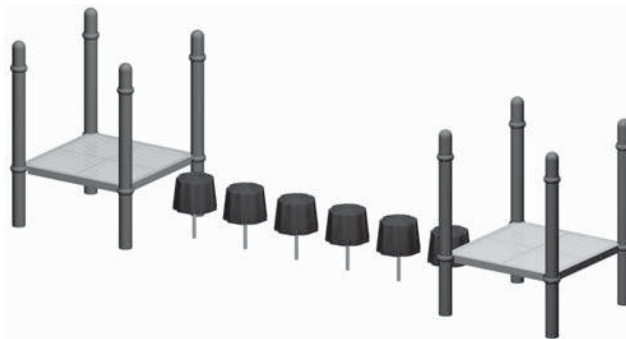
Top View



Footing Layout

**714-625-12**

**Big Timber Bongo Stump Bridge,  
(6) Perches; 12' Span**



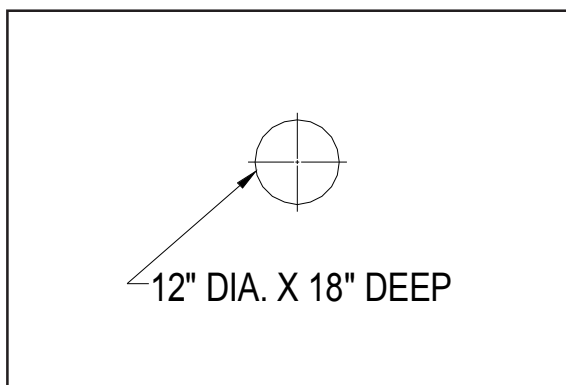
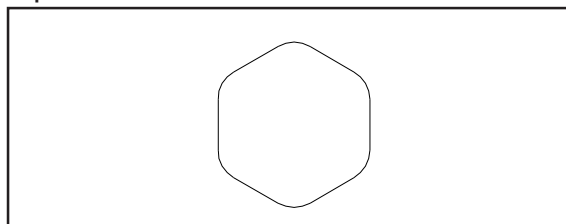
Bongo Perch & Bongo Bridges

714-625-1, 714-625-8, 714-625-10, 714-625-12, 714-772-1, 714-772-8,  
714-772-10, 714-772-12

Kids' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Top View

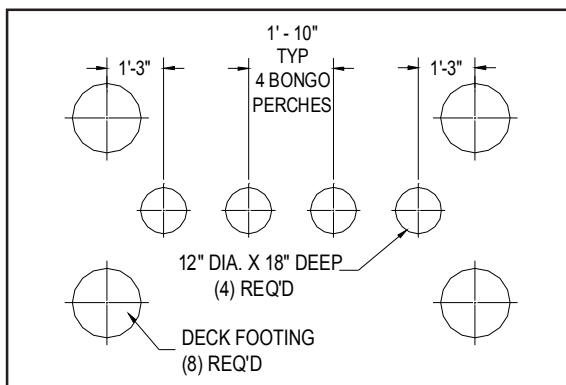
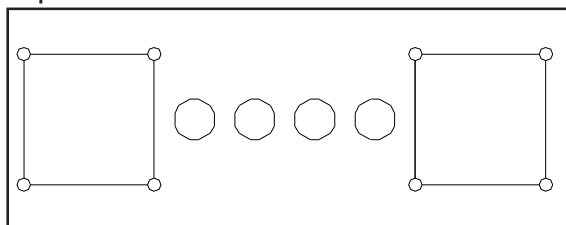


Footing Layout

**714-772-1**  
Bongo Perch



Top View



Footing Layout

**714-772-8**  
Bongo Bridge, (4) Perches;  
8' Span

714-625-1, 714-625-8, 714-625-10, 714-625-12, 714-772-1, 714-772-8,  
714-772-10, 714-772-12



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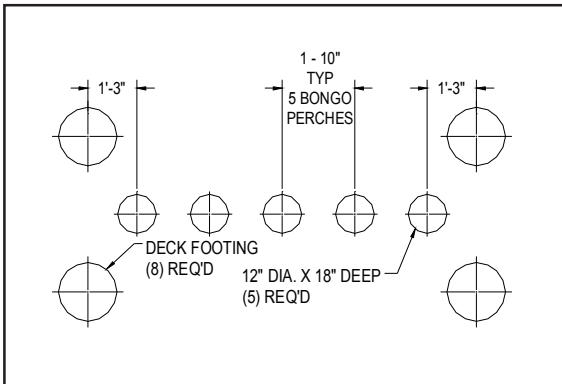
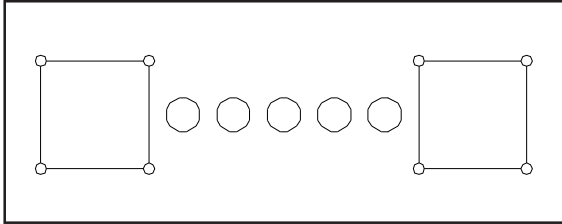
Kids' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

December 16, 2008

Rev. E

Top View



Footing Layout

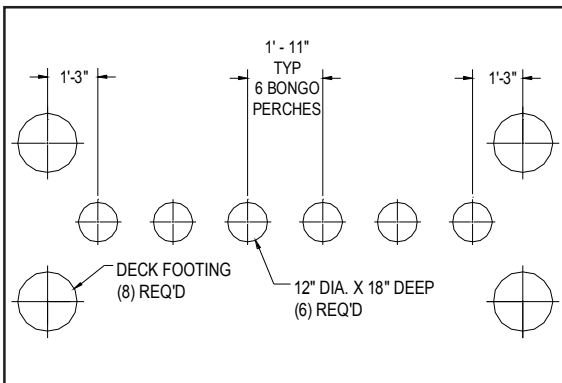
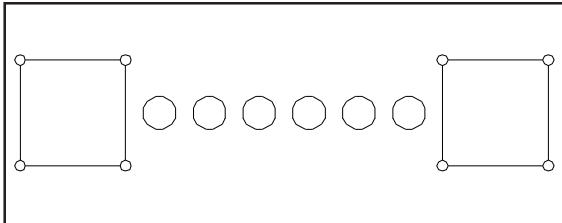
**714-772-10**

**Bongo Bridge, (5) Perches;  
10' Span**



Bongo Perch & Bongo Bridges

Top View



Footing Layout

**714-772-12**

**Bongo Bridge, (6) Perches;  
12' Span**



714-625-1, 714-625-8, 714-625-10, 714-625-12, 714-772-1, 714-772-8,  
714-772-10, 714-772-12

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# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

## INSTALLATION NOTES

1. Bongo Perches may enter/exit Decks 2'-0" or lower only.
2. Bongo Perch's top surface may be set no greater than **24"** from finished grade.
3. If installing as Bridge between Decks, Bongo Perches should be installed in straight line with flat side facing flat side, as shown in *Top Views* and *Footing Layouts*, though Bongo Perches may still vary. Freestanding configurations may zig-zag, circle, diverge, etc.
4. If installing as Stair or Bridge between Decks, Bongo Perches adjacent to Deck(s) must be installed so that top surface is level with or maximum **6"** below Deck height.
5. Footings might require additional excavation or Bongo Perch Posts might require cutting.
6. Do not allow more than **6"** vertical difference in adjacent Bongo Perch heights.
7. For configurations not in a straight line, distance between Bongo Perches must be **7" to 9"** edge-to-edge (or **22" to 24"** center-to-center.)
8. If installing as Bridge between 2'-0" Decks intended for 2 to 5 year olds, Deck Enclosures Model # 714-813-5 must be installed on each Deck. See separate *Installation Guide*.

**IMPORTANT NOTE:** Big Timber Stump installation is identical to Bongo Pod. If you have a Stump component, follow these instructions substituting **ONLY** the Stump for the Pod.

### **STEP 1** INSTALL DECK(S) AND ENCLOSURE(S), IF APPLICABLE

If applicable, install Deck system(s) and Enclosure(s) per separate instructions.

### **STEP 2** DIG FOOTINGS

Dig footings per *Footing Layouts* or other configuration. Refer to ***Footing Details*** installation located behind *Installations 101* in Installation Manual.

**Note:** Do not pour concrete for footings until all components in system have been installed per instructions and are braced in position level and plumb.



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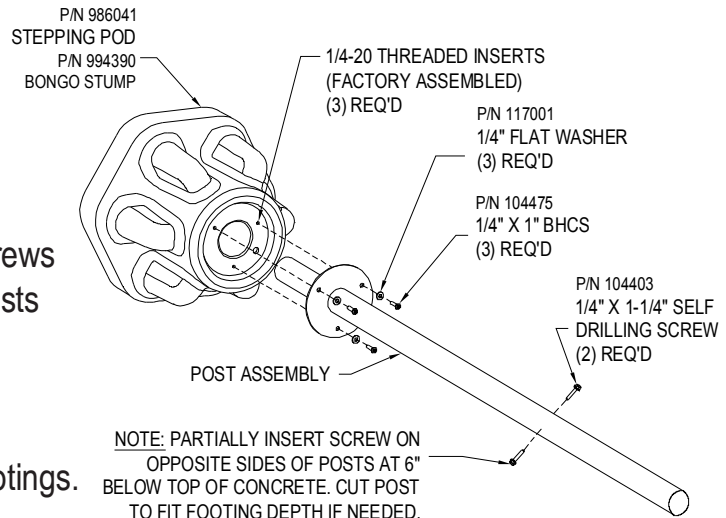
## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

### STEP 3 BOLT PODS TO POSTS & LOCATE

Assemble Bongo Perches by bolting Posts to Pods or Stumps as shown.

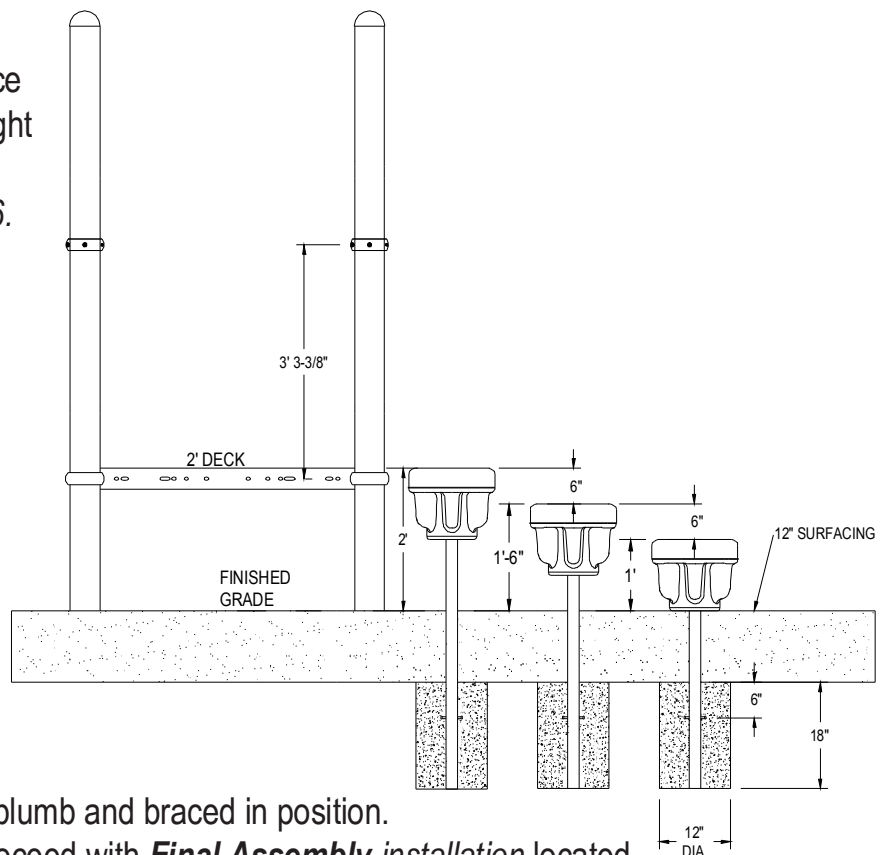
Determine proposed height of each Assembly and find finished grade and subgrade on each. Install self-drilling screws as noted in illustration to help anchor Posts in footings.

If necessary, cut Posts to fit in footings. Alternately, installers may dig deeper footings.



### STEP 4 BRACE PERCHES IN FOOTINGS

Set Bongo Perch Assemblies into footings and center. Brace each in footing at desired height and orientation. Refer to *Installation Notes* on Page 6.



### FINAL STEP

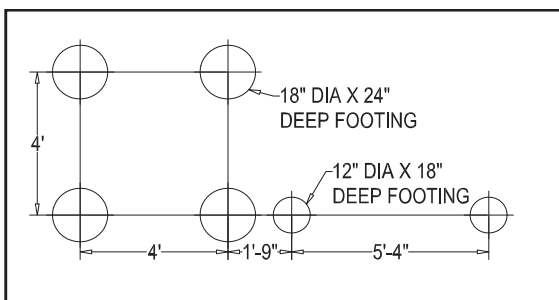
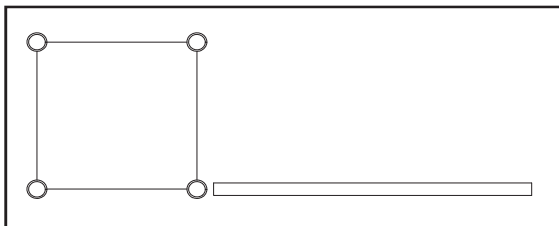
Verify components are level, plumb and braced in position. Prepare to pour concrete. Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

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## Balance Beam - 8', Straight

Optional deck system not included in this assembly

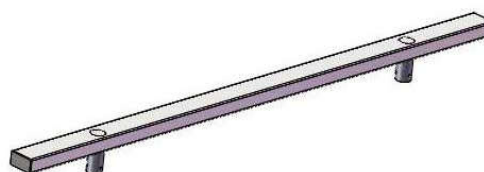
Top View\*



Footing Layout PROTECTIVE AREA: APPROX 21'X13'

714-913

Balance Beam



\* Note: Model may be freestanding or adjacent to deck system. If installed with deck, spacing must be as shown.

### TOOLS AND EQUIPMENT REQUIRED

Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, concrete blocks, bricks, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Adult installer

Note: Do not pour concrete for footings, or permanently secure clamps to posts with self-drilling screws, until **all** components in system have been installed per instructions, braced into position, leveled and plumbed.



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**Balance Beam - 8', Straight**

Optional deck system not included in this assembly

**STEP 1** INSTALL DECK SYSTEM

- 1a. IF applicable, first install the deck system per deck instructions.

**STEP 2** DIG FOOTINGS

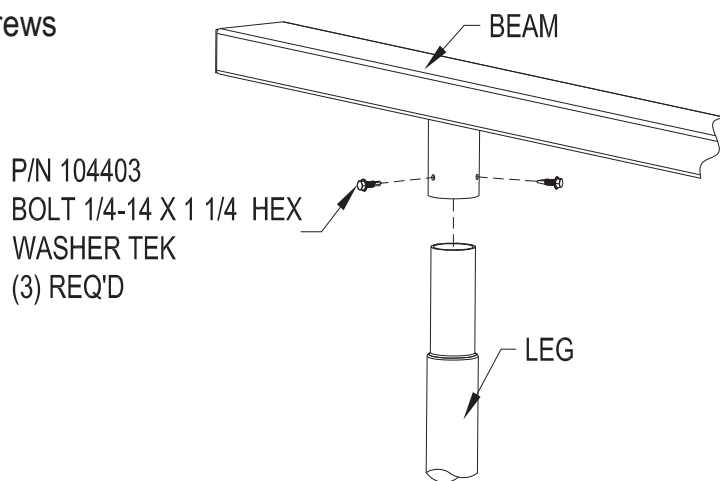
- 2a. Dig footings per *Footing Layout on page 1*. Refer to **Footing Details** installation.
- 2b. Model is designed to be installed with 12" of protective surfacing. Legs may require cutting to ensure proper fit in footings; alternately, installers may dig deeper footings, if applicable.

**STEP 3** SET LEGS INTO FOOTINGS

- 3a. Plumb, level and block assembly up so that top surface of beam is **12" maximum** from top of surfacing.

**STEP 4** ATTACH BEAM TO LEGS

- 4a. Set beam onto legs and attach with tek screws in three places.

**FINAL STEP**

Proceed with **Final Assembly** installation.

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## Versalok® Fastening System

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
718-500	Versalok® Fastening System	1

*Posts and additional components not included in this assembly.*



**718-500**

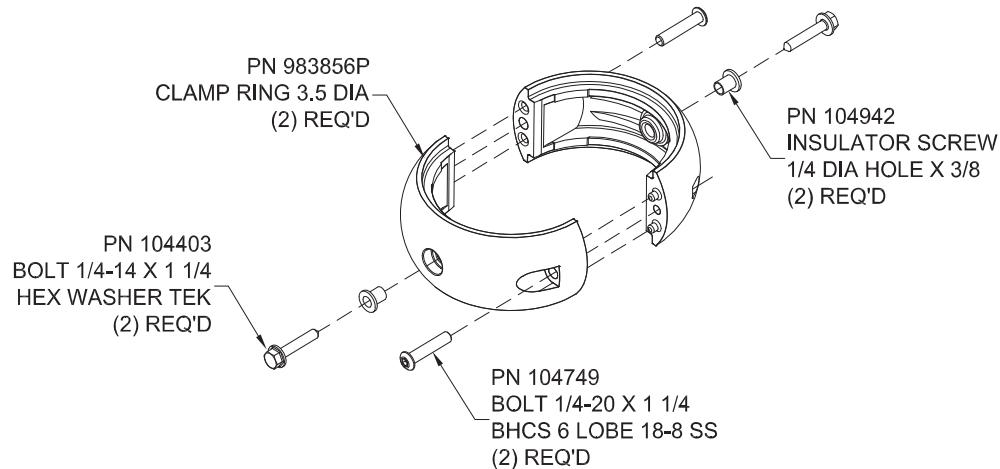
**Versalok® Fastening System**

**Note:**

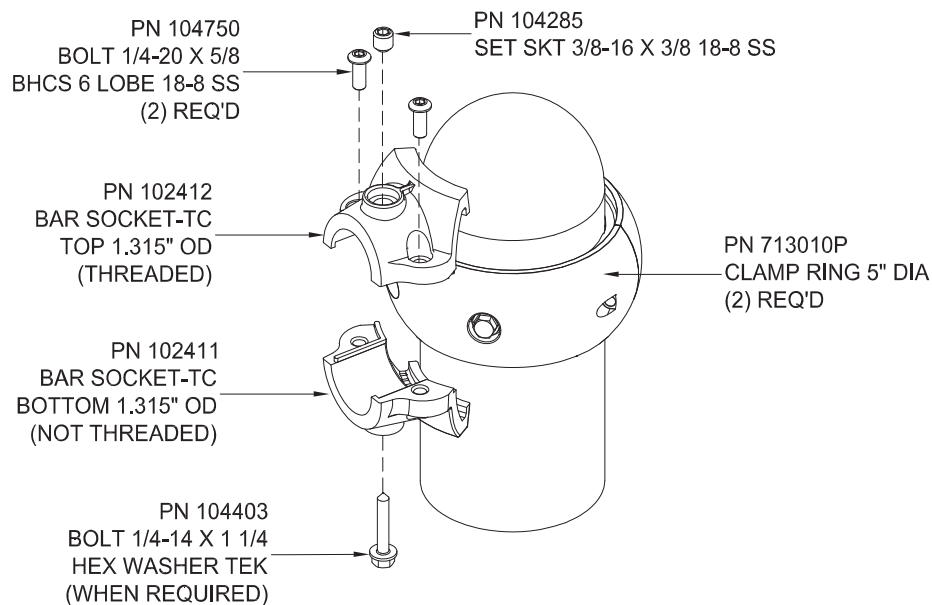
- Deck, deck post, handrails and panel are not included.
- Illustration demonstrates completed assembly with common components.
- Versalok clamps mount to posts allowing connection of decks, enclosures and other components.
- Support casting designs and hardware vary by component.

## Tots' Choice® Versalok® Fastening System

### A. 3.5" dia Clamp Ring Assembly



### B. 2-PC Bar Socket w/1-5/16" dia Hole (for climber rails, etc.)

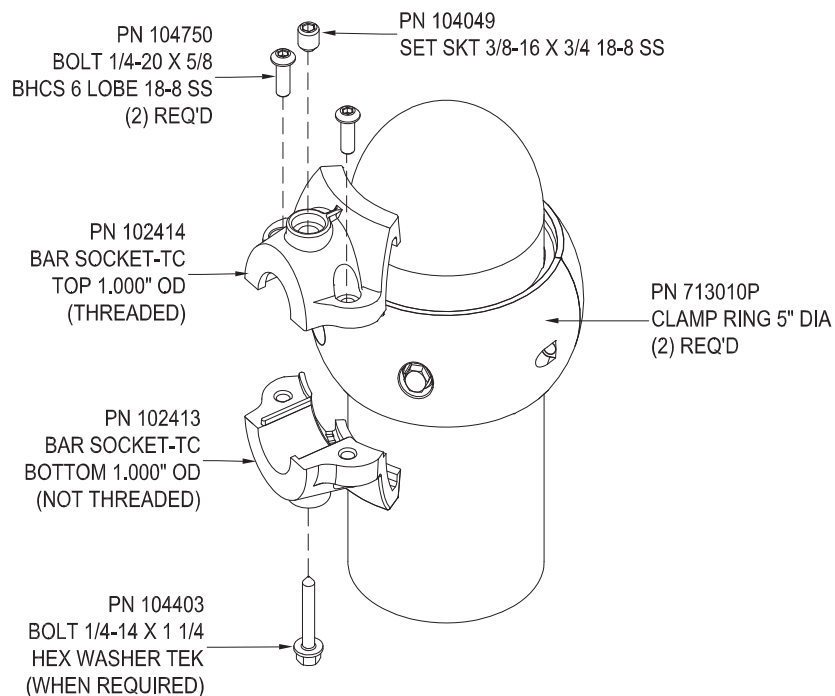


#### Note:

- Top and bottom halves of 2-pc. bar sockets can be reversed to ease installation.
- For bar socket only: Use self-drilling screw (PN 104403) only as required on models specified in installation instructions. This should not be used on any other model.

# Tots' Choice® Versalok® Fastening System

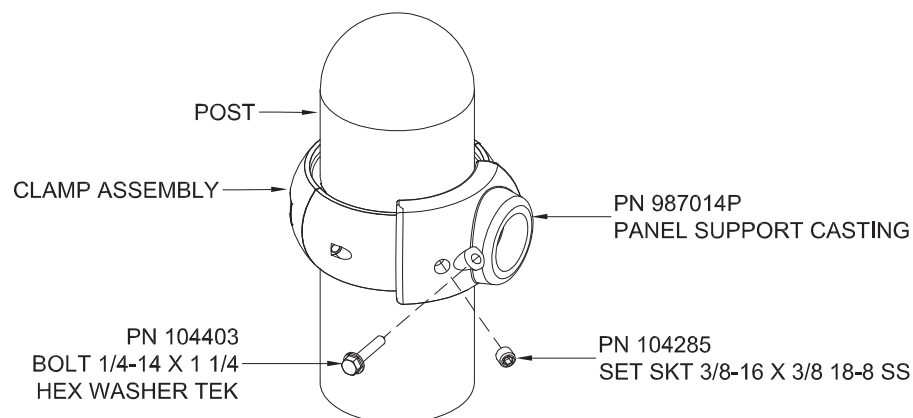
## C. 2-PC Bar Socket w/1" dia Hole



### Note:

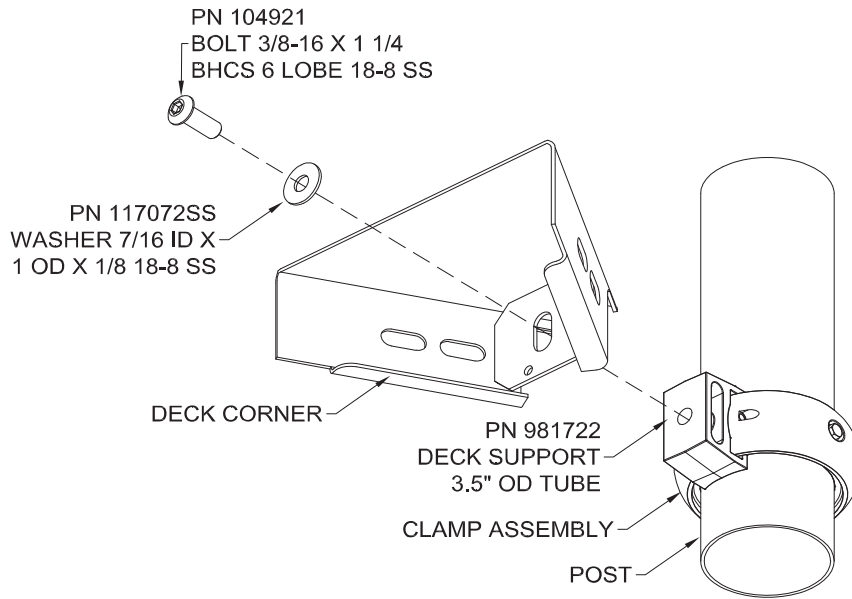
- Top and bottom halves of 2-pc. bar sockets can be reversed to ease installation.
- For bar socket only: Use self-drilling screw (PN 104403) only as required on models specified in installation instructions. This should not be used on any other model.

## D. PANEL SUPPORT CASTING

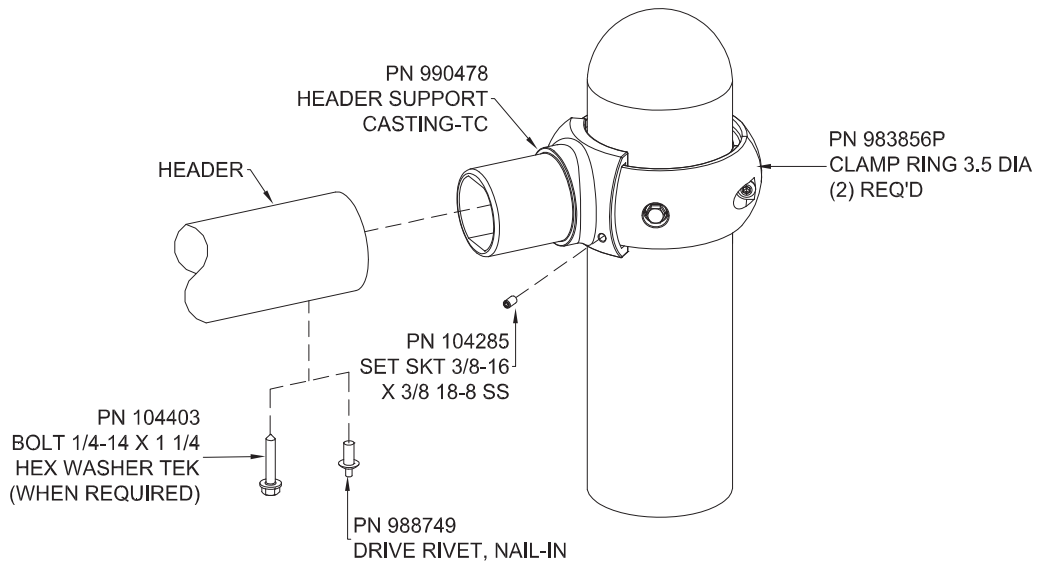


# Tots' Choice® Versalok® Fastening System

## E. Deck Support Casting



## F. TCX Header Support Casting



### Note:

- Refer to specific component installation instruction.

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## Versalok® Fastening System

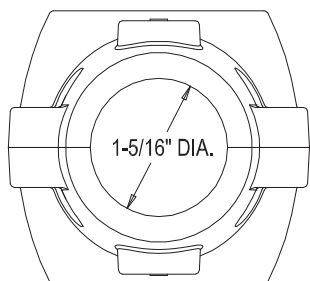
### STEP 1 MATCH CLAMPS WITH POSTS & COMPONENTS

- 1a. Determine use(s) and location of each clamp ring based on Construction Drawings and/or installation instructions of playsystem's components. It is the installer's choice whether to assemble clamps to posts *before* or *after* setting posts into footings.

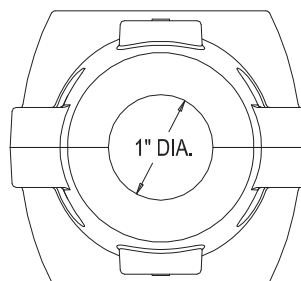
Note:

- Most measurements are made from finished grade, which accounts for post length below subgrade (in concrete, beneath compacted soil level) and 12" of loose-fill surfacing.
- Do not permanently affix clamps to posts with self-drilling screws, or pour concrete for footings, until all components in playsystem are installed per instructions and braced in position level and plumb.
- The Versalok Fastening System contains two sizes of bar sockets to accommodate components of two sizes: 1-5/16" O.D. tube and 1" O.D. tube. Take care to match correct size of bar socket with intended connecting component before affixing clamp rings to posts.

PN 102411, PN 102412:  
2-PC. BAR SOCKET FOR  
1.315" TUBE



PN 102413, PN 102414:  
2-PC. BAR SOCKET FOR  
1" TUBE



### STEP 2 MARK CLAMP POSITIONS ON POSTS

- 2a. Determine clamp heights on posts per component instructions. Mark positions on posts with pencil or washable pen or marker.
- 2b. If assembly contains deck support castings, panel support castings or TCX header supports, slide each onto a clamp ring half *before* mating with opposite half around post. Otherwise, clamp ring will require disassembly during installation to add support castings.

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**Versalok® Fastening System****STEP 3** FASTEN CLAMP RING HALVES AROUND POSTS

- 3a. Refer to first illustration on *page 2*. Connect clamp ring halves to each other around posts at marked heights with **1/4" x 1-1/4" BHCS bolts** (PN 104749) at each end. Orient clamp ring assembly so that recessed center holes (for securing clamp ring halves to post) will not be blocked when components are attached to support castings.

Note:

- For aesthetic purpose, it is advisable to assemble clamps around posts with text on surface oriented upright and legible, though clamp will function properly regardless.

**STEP 4** COMPONENTS TO OR IN SUPPORT CASTINGS

- 4a. Seat component rail, rungs, edges, etc. in bar sockets or panel supports or against deck supports. Adjust clamp rings on posts as needed (maintaining heights specified in component instructions) to achieve plumb and level posts and components.
- 4b. Refer to illustrations on *pages 3 and 4* for support casting hardware requirements.
- 4c. Tighten hardware affixing components to support castings, castings to clamps and clamp rings around posts.

**FINAL STEP** SECURE CLAMPS TO POSTS

Permanently affix clamp rings to deck posts using self-drilling screws and screw insulators when all components in system have been installed, plumbed, leveled and braced in position for pouring of concrete. Proceed with **Final Assembly installation** located behind *Installations 101* in Installation Manual.



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RECREATION EQUIPMENT COMPANY

# Installation Guide

Mar. 15, 1999 Rev. C

Tots' Choice™

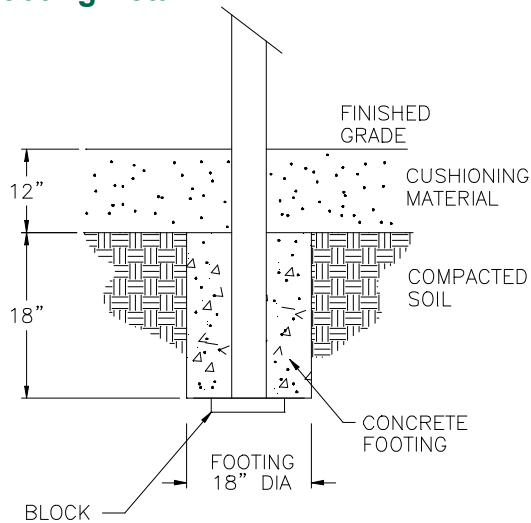
**Footing Details** - Deck Posts & Components, Chain/Rope & Tire, Cargo

## Deck Posts and Components

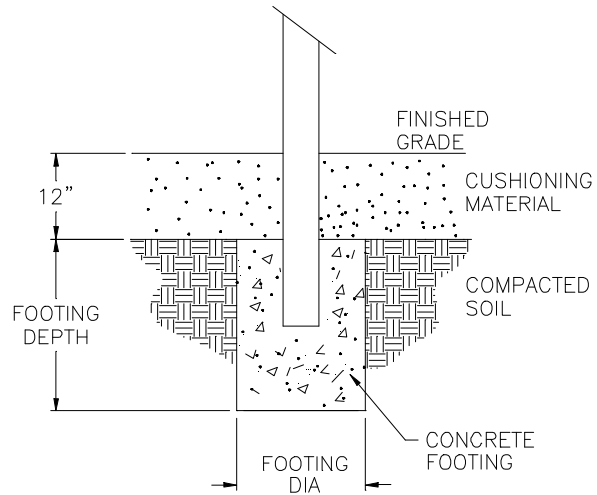
## Chain / Rope & Tire

## Cargo

### Tots' Choice Deck Post Footing Detail



### Component Footing Detail



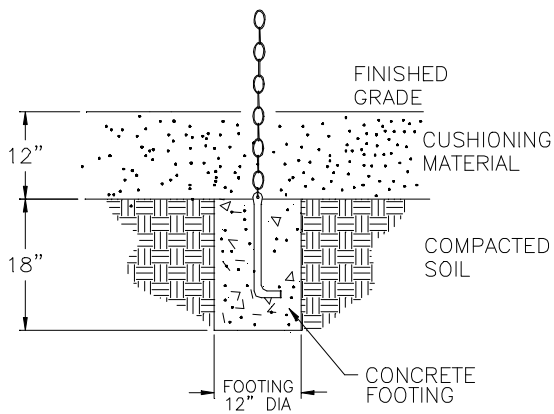
*Note: Block at bottom of Footing hole is optional, and recommended for installation of deck posts. If used, compensate by digging deeper Footing(s).*

## Deck Posts & Components

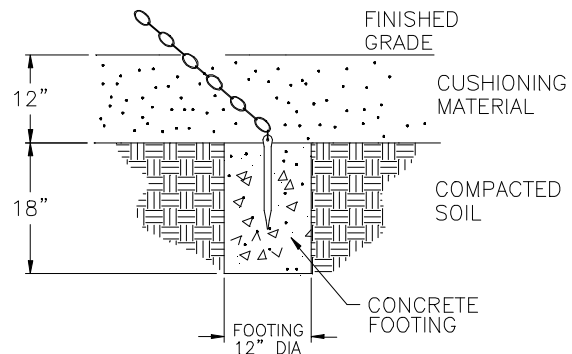
## Chain / Rope and Tire

## Cargo

### Chain Ladder & Climbing Rope Footing Detail



### Tire Climber Footing Detail



Footing Details - Tots' Choice

718500F





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Mar. 15, 1999 Rev. C

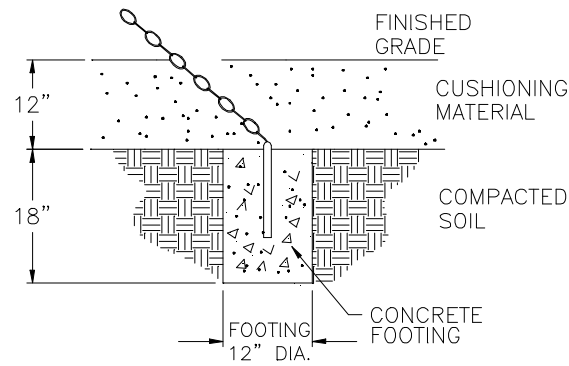
## Footings Details - Deck Posts & Components, Chain/Rope & Tire, Cargo

Deck Posts & Components

Chain / Rope & Tire

Cargo Net / Climber

### Cargo Net & Cargo Climber Footings Detail



Footings Details - Tots' Choice

718500F



# Installation Guide

July 27, 2011

Rev. E

Tots' Choice® - Mira-Therm II  
**Decks**

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

## Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-501-9	Triangle Deck	2
718-502-9	Square Deck	2
718-503-9	Half Hexagon Deck	3
718-504-9	Half Hexagon Deck - Open	3

*Deck Posts NOT included in these assemblies*

***Please refer to Construction Drawings for the model particular to your system.***

## TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, sawhorses, etc.)
4. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
5. Drill, bits, extension cords, power supply
6. Tape measure and level
7. Step ladder
8. Adult installers - 2 minimum

Decks

718-501-9, 718-502-9, 718-503-9, 718-504-9

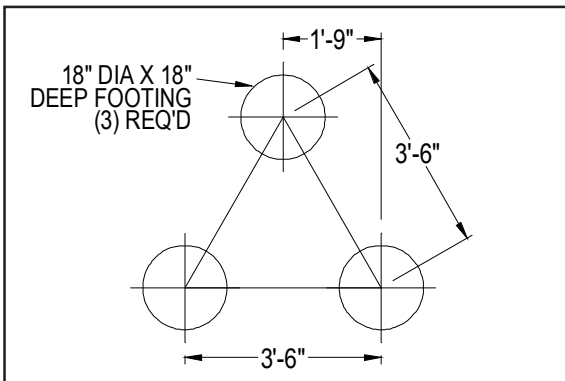
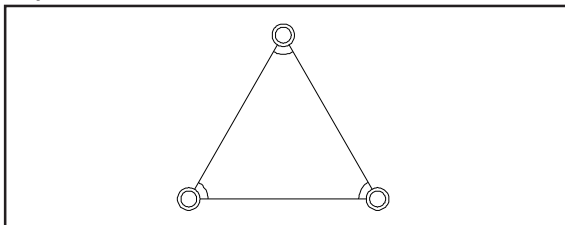


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Tots' Choice® - Mira-Therm II  
**Decks**

Decks

Top View

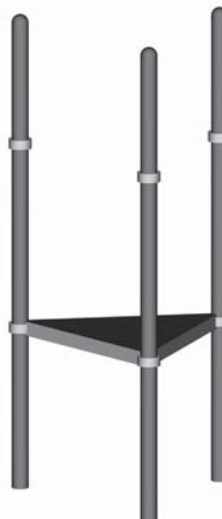


Footing Layout

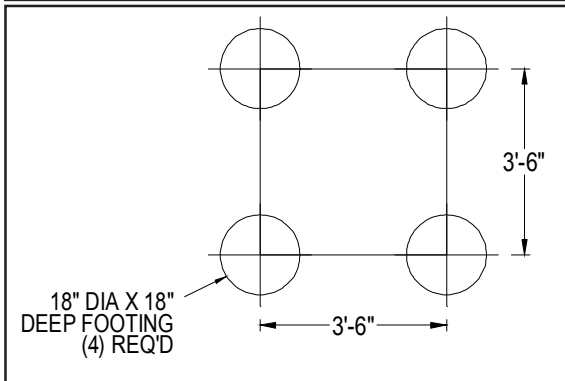
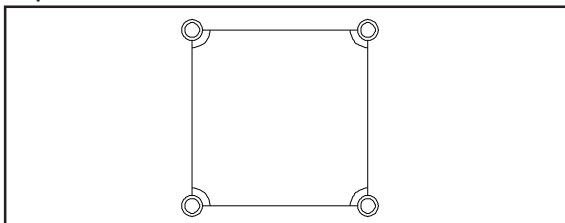
**718-501-9**

**Triangle Deck (Tri-Deck)**

*Model # 718-501-9 requires three (3) Posts.*



Top View



Footing Layout

**718-502-9**

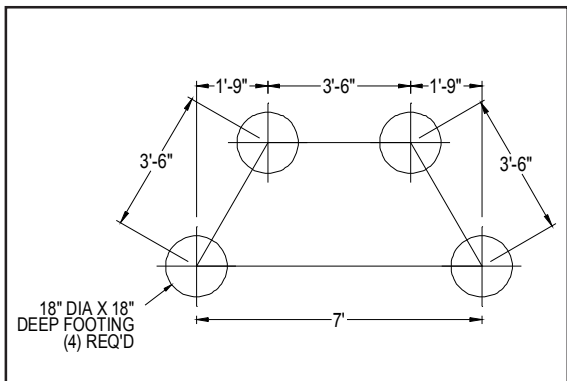
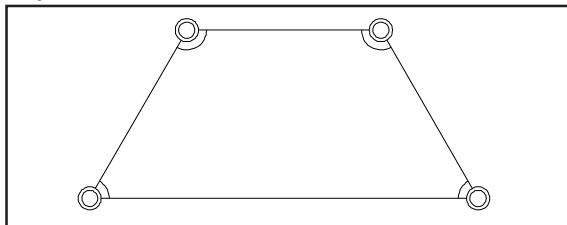
**Square Deck**

*Model # 718-502-9 requires four (4) Posts.*



718-501-9, 718-502-9, 718-503-9, 718-504-9

Top View



Footing Layout

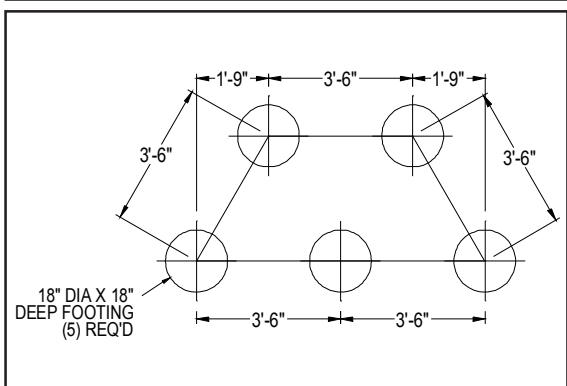
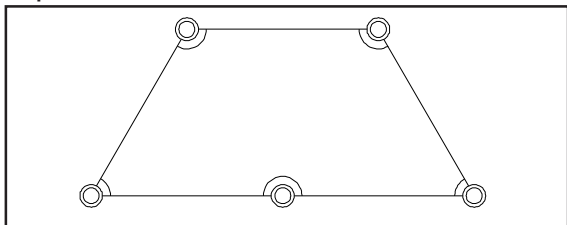
## 718-503-9

### Half Hexagon Deck (1/2 Hex)

Model # 718-503-9 requires four (4) Posts if used with Flippo components, or six (6) Posts and two (2) Decks to form a complete Hex Deck.



Top View



Footing Layout

## 718-504-9

### Half Hexagon Deck - Open (1/2 Hex Open)

Model # 718-504-9 requires five (5) Posts.



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## Decks

Each Deck system requires a number of Posts or Arches, available in various heights and configurations, to facilitate different Deck and component heights. Refer to *Top Views*, *Footing Layouts*, and *Construction Drawings* specifically for this installation to determine type and location of each Deck Post or Arch.

### STEEL OR ALUMINUM DECK POSTS

<u>Steel Model #</u>	<u>Aluminum Model #</u>	<u>Description</u>	<u>For use with</u>
718-551	718-551-2	100" Deck Post	Decks - 2'-6" or lower
718-552	718-552-2	130" Deck Post	Decks - 3' to 5'
718-553	718-553-2	148" Deck Post	Decks - 5'-6" to 6'
718-555	718-555-2	70" Deck Post	Freestanding Panels
718-572	718-572-2	138" Deck Post	Decks - 3' or lower (with Roof)
718-573	718-573-2	162" Deck Post	Decks - 3'-6" to 5' (with Roof)
718-574	718-574-2	180" Deck Post	Decks - 5'-6" to 6' (with Roof)
718-583	718-583-2	151" Arch	Decks - 3' or lower
718-585	718-585-2	175" Arch	Decks - 3'-6" to 5'
718-586	718-586-2	193" Arch	Decks - 5'-6" to 6'

### STEP 1 DIG FOOTINGS

Dig Footings per *Top Views* and *Footing Layouts* or *Construction Drawings*. Refer to ***Footing Details*** installation located behind *Installations 101* in Installation Manual.

*Install Tip: Determine thickness of blocking material (such as patio blocks.) Dig Footings that amount deeper and place blocks beneath Deck Posts in Footings. This gives playsystem additional stability and helps ensure it remains level and plumb until concrete is fully cured.*

**Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position level and plumb.**

## STEP 2 SET POSTS INTO FOOTINGS

Set Posts into Footings and verify that tops of plumb Posts are level on same (or correct) plane.

**Note: One Arch functions as two Deck Posts. Legs of Arch may vary slightly in length. Plumb each Arch leg so that Arch Assembly stands plumb at desired height, and adjust Footing depth or block up short leg as needed.**

## STEP 3 ASSEMBLE DECK SUPPORTS AND BAR SOCKETS (IF APPLICABLE) TO CLAMP RINGS

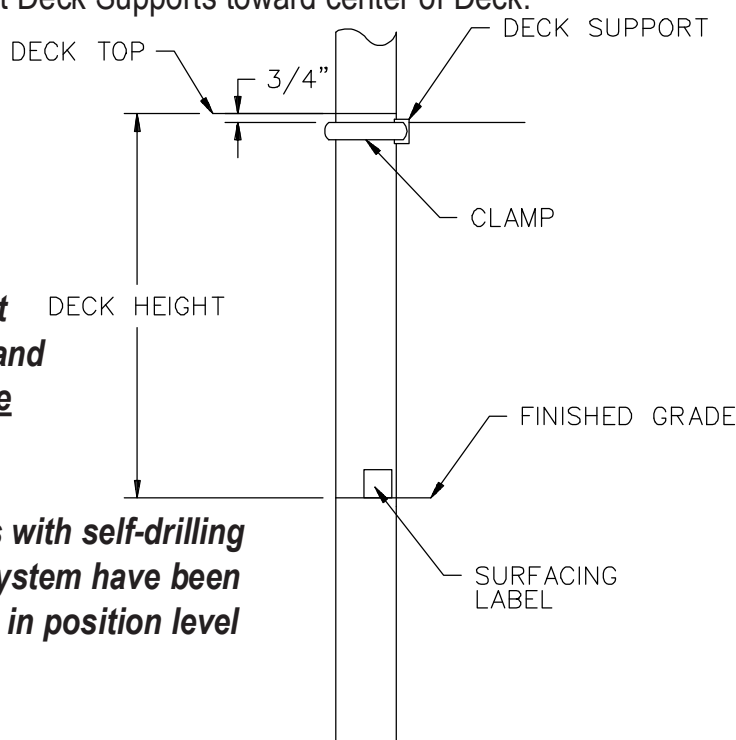
Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.

Place Deck Supports (and Bar Sockets, if applicable) on each Clamp Ring and loosely assemble Clamp Ring halves around Posts so that tops of Clamps are **approximately 3/4" below** intended Deck height. Orient Deck Supports toward center of Deck.

Apply a "Top of Surfacing" label to each Deck Post 12" above compacted soil.

**Note: If a Post must "share duty" by supporting an adjacent Deck system at equal height or an adjacent component, slide all Deck Supports and Bar Sockets onto Clamp Rings before assembling to Posts.**

**Note: Do not secure Clamps to Posts with self-drilling screws until all components in playsystem have been installed per instructions and braced in position level and plumb.**



## STEP 4 DRILL EXCESS PVC

Use drill to ream excess PVC from Deck Support mounting holes in Deck corners.

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**Decks****STEP 5** ATTACH DECK TO POSTS

Rest Deck on Clamps, and plumb and brace Deck Posts in position. Readjust position of Clamps on Posts as needed to ensure that Deck is level at desired height.

Align Deck corner mounting holes with Deck Supports and attach each with **3/8" x 1-1/4" button head bolt** (P/N 104921) and **7/16" I.D. x 1" O.D. flat washer** (P/N 117072SS). Do not embed washer in deck coating by overtightening bolt.

*Install Tip: Employ a jack stand or other blocking material to support Deck system at proper height until other components are attached, to prevent leaning or twisting of Deck assemblies and to temporarily lend stability.*

**STEP 6** AFFIX DECK SECTIONS TOGETHER; IF APPLICABLE

If installing Deck systems with sections sharing a long side at same height (without a middle Post,) use drill to ream excess deck coating from four (4) mating holes in long side edge angle on both Deck sections. Secure Deck sections together with **3/8" x 1-1/8" button head bolts** (P/N 104930), **3/8" flat washers** (P/N 117005) on each side, and **3/8" Nylok nut** (P/N 110030).

Deck sections which share a 3'-6" side at same or varying heights attach to common Posts per previous instructions. Deck-to-Deck fastening on a common 3'-6" side is not necessary.

**FINAL STEP**

Square, plumb and level Deck Assembly. Tighten Clamps on Posts, and assemble remaining components to Deck system. When complete, proceed with **Final Assembly installation** located behind *Installations 101* in Installation Manual.



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# Installation Guide

October 19, 2009

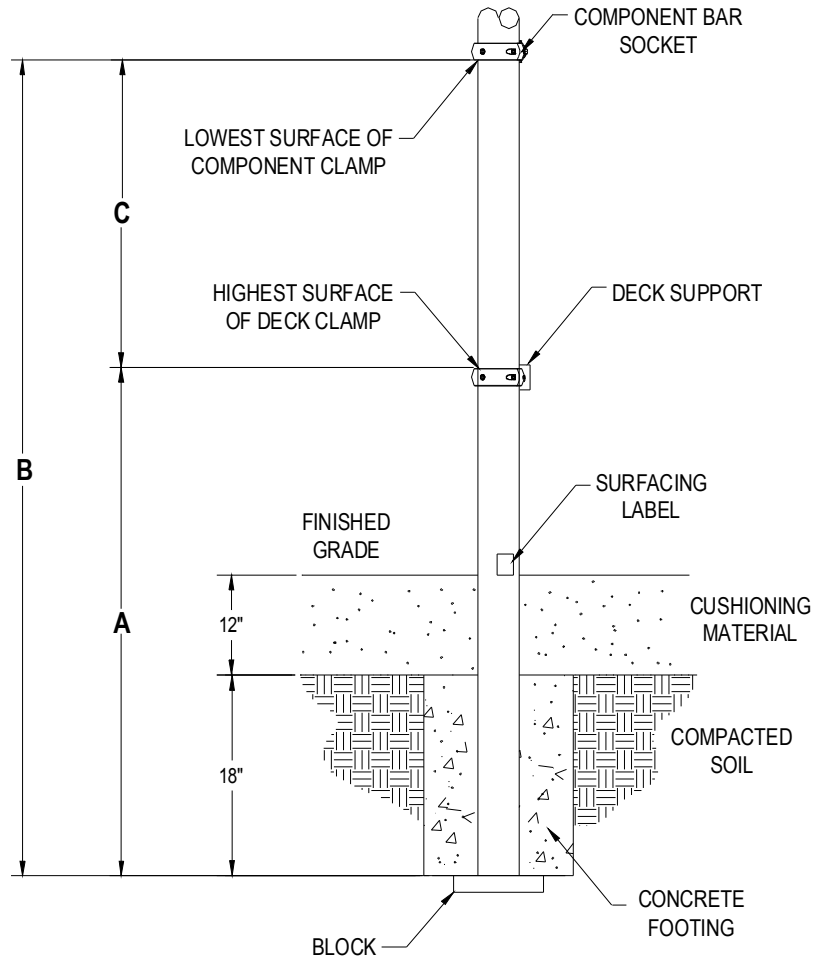
Rev. B

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## Pre-Installation Preparation of Clamps to Deck Posts

This procedure is an optional step for playsystem installations.

### Clamp Locations on Posts by Deck Height



Deck Ht.	A *	B *	C	Deck Ht.	A *	B *	C
0'-6" .....	35-1/4" .....	72-3/4"	37-1/2"	4'-6" .....	83-1/4" .....	120-3/4"	37-1/2"
1'-0" .....	41-1/4" .....	78-3/4"	37-1/2"	5'-0" .....	89-1/4" .....	126-3/4"	37-1/2"
1'-6" .....	47-1/4" .....	84-3/4"	37-1/2"	5'-6" .....	95-1/4" .....	132-3/4"	37-1/2"
2'-0" .....	53-1/4" .....	90-3/4"	37-1/2"	6'-0" .....	101-1/4" .....	138-3/4"	37-1/2"
2'-6" .....	59-1/4" .....	96-3/4"	37-1/2"	6'-6" .....	107-1/4" .....	144-3/4"	37-1/2"
3'-0" .....	65-1/4" .....	102-3/4"	37-1/2"	7'-0" .....	113-1/4" .....	150-3/4"	37-1/2"
3'-6" .....	71-1/4" .....	108-3/4"	37-1/2"	7'-6" .....	119-1/4" .....	156-3/4"	37-1/2"
4'-0" .....	77-1/4" .....	114-3/4"	37-1/2"	8'-0" .....	125-1/4" .....	162-3/4"	37-1/2"

\* Dimensions measured from bottom end of Deck Post

**Note: The values in this chart assume 18" deep footing plus 12" protective surfacing. If planned drainage system or other factors affect height of finished grade, adjust chart values accordingly.**

Special thanks to the crew of **Ozark Mountain Installations, Inc.** in Monett, Missouri, for recommending this procedure.

Pre-Install Prep - Clamps to Deck Posts

718-522



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## Pre-Installation Preparation of Clamps to Deck Posts

Many installers prefer to assemble Deck-supporting Clamps and corresponding Component-supporting Clamps around Deck Posts at correct heights all at once as part of their "prep work," in order to save time and effort during installation of other playsystem components.

Miracle's *Installation Guides* provide dimensions and instructions for mounting each model and its parts individually and consecutively, regardless of whether this prep work is completed. It is at the installers' discretion whether to reference this procedure.

The instructions, diagram and chart herein refer to locations for marking and connecting Clamps around Deck Posts only (i.e. Posts without Decks do not apply.) Refer to **Versalok Fastening System** installation instructions in this *Manual* for assembly details.

**Note: Do not use self-drilling screws to secure Clamps to Posts until all components in system have been installed per instructions, and are plumb, level and braced in position. This will allow Clamps to be shifted as needed during installation of remaining components.**

**It is important to note that until Clamps are permanently secured, Deck systems and other components are UNSAFE TO STAND ON!**

**Note: This procedure is valid only if footing depths are precise and consistent. Continue only if a transit or other device will be used to verify accuracy.**

If Blocks will be placed beneath Deck Posts at bottom of footing holes as recommended, compensate for extra height by digging holes deeper. Refer to **Footing Details**.

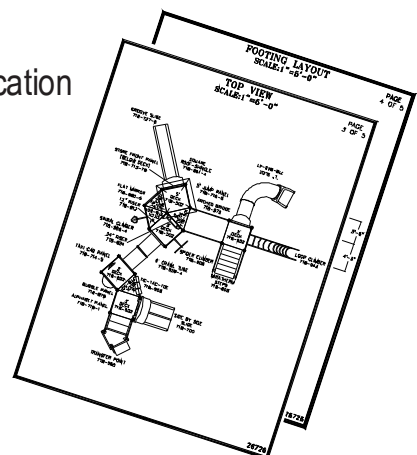
### STEP 1

Remove wrapping from Deck Posts, verifying that Part Identification Labels match Parts Lists in this *Installation Manual*.

### STEP 2

Study enclosed *Top View* and *Footing Layout*, located behind "Construction Drawings" tab.

Locate all Deck Posts in playsystem, and determine which size Bar Socket(s) should be attached to each Deck Post.



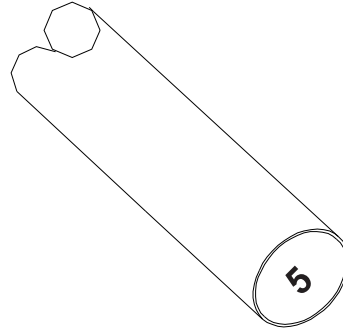


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## Pre-Installation Preparation of Clamps to Deck Posts

### STEP 3

Plan installation sequence of Decks and other system components. Assign each Deck Post a number. Write numbers by Posts on *Footing Layout* or *Top View* for later reference, then use a permanent marker to write identical numbers inside bottom of corresponding Deck Posts.



### STEP 4

Place Deck Posts on sawhorses or other sturdy, non-abrasive surface.

Note intended usage and location of each Deck Post (for which Deck heights), and refer to chart on *Page 1*. Measure from bottom of each Deck Post and mark location of **highest surface of Deck-supporting Clamp (A)**, *not Deck Support*.

### STEP 5

Refer to **Versalok Fastening System** *Installation Guide*. Slide Deck Support(s) onto Deck-supporting Clamp halves, and assemble both halves of Clamp Rings around Deck Posts tightly, aligning top surface of Clamp Ring (*not Deck Support*) with mark.

### STEP 6

Measure and mark Deck Post at **lowest surface of Component-supporting Clamp (B)**.

### STEP 7

Slide correct size(s) of Bar Socket(s) onto Component-supporting Clamp Ring halves, and assemble Rings around Deck Posts at marks. Verify that distance between **A** and **B** is **(C)** value in third column of chart.

### FINAL STEP

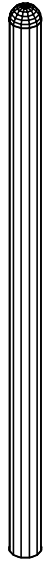
Repeat procedure starting at **Step 4** until all Deck Posts are position-planned, numbered, and assembled with Clamp Rings and Deck Supports, when applicable.

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## Steel Posts & Aluminum Posts - 3-1/2" O.D.

These components may be used in Deck systems as well as freestanding and other assemblies.

### Steel Posts - 3-1/2" O.D.



MODEL	DESCRIPTION	USES	PART #
718-549-3	106" Deck Post.....	3' Decks.....	995232P
718-549-4	118" Deck Post.....	4' Decks.....	995233P
718-550-3	200" Deck Post (PlayCover)....	3' Deck & Less	997245P
718-550-5	216" Deck Post (PlayCover)....	3'-6" to 5' Decks.....	997251P
718-550-6	232" Deck Post (PlayCover)....	5'-6" to 6'-6" Decks..	997257P
718-550-8	248" Deck Post (PlayCover)....	7' to 8' Decks.....	997227P
718-551	100" Deck Post .....	2'-6" Decks & less ..	981925P
718-552	130" Deck Post .....	3' to 5' Decks .....	981926P
718-552L	130" Deck Post w/CPSIA Label	3' to 5' Decks.....	996062P
718-553	148" Deck Post .....	5'-6" to 6'-6" Decks..	981927P
718-554	166" Deck Post .....	7'-0" to 8'-0" Decks..	990656P
718-555	70" Post for Play Panels .....	Play Panels .....	982294P
718-571	100" Deck Post (for Roof).....	Ground Level.....	114145P
718-572	138" Deck Post (for Roof) .....	3' Decks & less .....	981928P
718-573	162" Deck Post (for Roof) .....	3'-6" to 5' Decks .....	981930P
718-574	180" Deck Post (for Roof) .....	5'-6" to 6'-6" Decks..	981929P
718-575	190" Deck Post (for Roof).....	6'-6" Deck.....	114965P
718-576	198" Deck Post (for Roof) .....	7'-0" to 8'-0" Decks..	114957P

Top Views not shown. Refer to playsystem's *Installation Guide* and/or *Construction Drawing* for Footing Layouts.

Steel Posts & Aluminum Posts - 3-1/2" O.D.

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Steel Posts & Aluminum Posts- 3-1/2" O.D.



Aluminum Posts - 3-1/2" O.D.

MODEL	DESCRIPTION	USES	PART #
718-549-32	106" Deck Post.....	3' Decks.....	995234P
71-549-42	118" Deck Post.....	4' Decks.....	995235P
718-551-2	100" Deck Post .....	2'-6" Decks & less ..	989070P
718-552-2	130" Deck Post .....	3' to 5' Decks .....	989071P
718-552-2L	130" Deck Post w/CPSIA Label	3' to 5' Decks .....	996066P
718-553-2	148" Deck Post .....	5'-6" to 6'-6" Decks..	989073P
718-555-2	70" Post for Play Panels .....	Play Panels .....	989069P
718-572-2	138" Deck Post (for Roof) .....	3' Decks & less .....	989072P
718-573-2	162" Deck Post (for Roof) .....	3'-6" to 5' Decks .....	989074P
718-574-2	180" Deck Post (for Roof) .....	5'-6" to 6'-6" Decks..	989075P

Top Views not shown. Refer to playsystem's *Installation Guide* and/or *Construction Drawing* for Footing Layouts.

Note: Miracle Recreation attaches a CPSIA label to transfer points and 2' stairs. If your composite structure does not have one of these components, there will be ONE post with the label attached. This label will be attached so that when installed it will be approximately 6" above finished grade. Ensure this label is readable and not covered by clamps, hardware or other equipment. If you do NOT have a component with label, contact your Miracle sales representative.

718-549-3, 718-549-4, 718-549-32, 718-549-42, 718-550-3, 718-550-5, 718-550-6, 718-550-8, 718-551, 718-551-2, 718-552, 718-552L, 718-552-2, 718-553, 718-553-2, 718-554, 718-555, 718-555-2, 718-571, 718-572, 718-572-2, 718-573, 718-573-2, 718-574, 718-574-2, 718-575, 718-576

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**Steel Posts & Aluminum Posts - 3-1/2" O.D.****STEP 1** DIG FOOTINGS

Use playsystem's **Installation Guide** and/or **Construction Drawing** to determine footing locations, and use shovel, posthole digger, auger, etc. to dig footings.

Refer to **Footing Details** installation.

**STEP 2** PLACE POSTS INTO FOOTINGS

Place Posts into footings. Plumb and brace in position.

**Note:** Do not pour concrete for footings, or permanently secure Clamps to Posts with self-drilling screws, until all components in system or freestanding assembly have been installed per instructions and braced in position level and plumb.

**FINAL STEP**

Install remaining Playsystem components per instructions. Verify that components are at correct heights, angles, etc., and are plumb and level.

Secure Posts in footings with concrete. Allow 72 hours to cure before removing braces. Refer to **Final Assembly** installation.

**Steel Posts & Aluminum Posts - 3-1/2" O.D.**

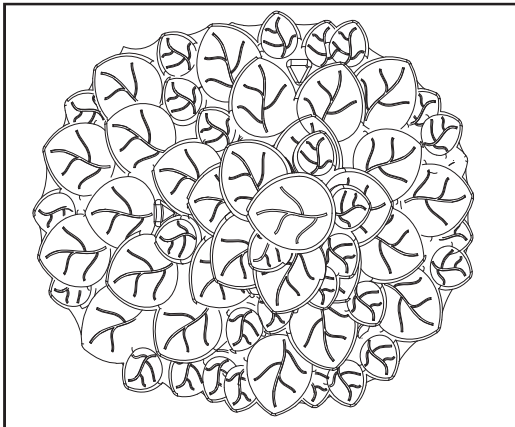
718-549-3, 718-549-4, 718-549-32, 718-549-42, 718-550-3, 718-550-5, 718-550-6, 718-550-8, 718-551, 718-551-2, 718-552, 718-552L, 718-552-2, 718-552-2L, 718-553, 718-553-2, 718-554, 718-555, 718-555-2, 718-571, 718-572, 718-572-2, 718-573, 718-573-2, 718-574, 718-574-2, 718-575, 718-576

Tots' Choice®

## Big Timber® Post Topper

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

Top View



**718-620**

**Big Timber Post Topper**



*NOTE: Post NOT included in these assemblies.*

### TOOLS AND EQUIPMENT REQUIRED

*Also see "Suggested Tools & Equipment" (Doc # D70052) in "Installations 101"*

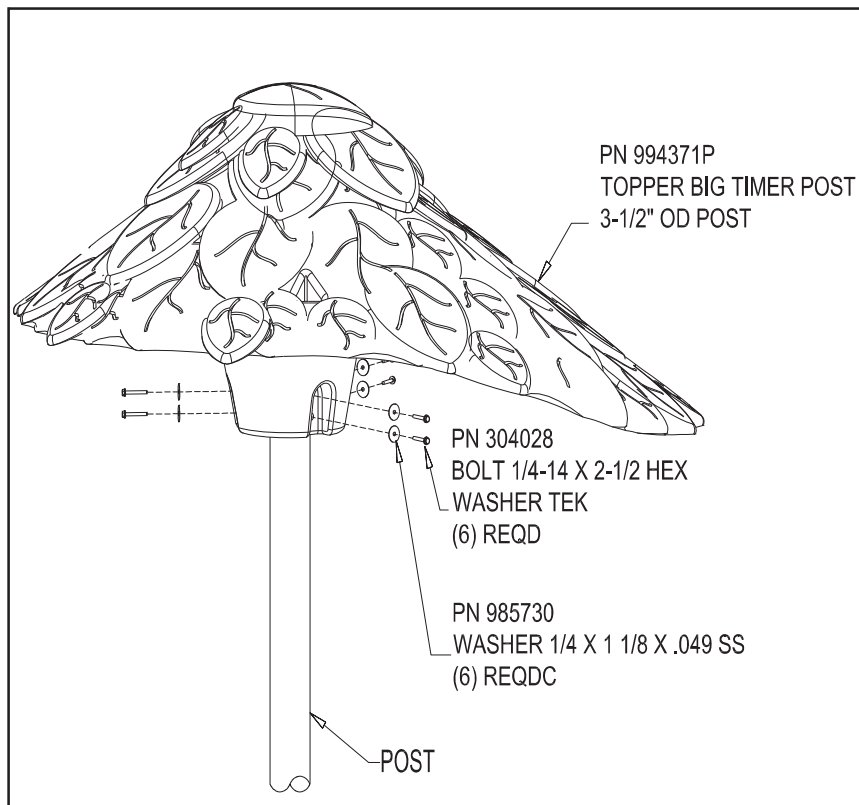
1. Tape measure and level
2. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
3. Step ladder
4. Adult installer

Tots' Choice®

**Big Timber® Post Topper****STEP 1** INSTALL POST TOPPER

- 1a. Set post cap into top end of post.
- 1b. Firmly and completely seat big timber post topper onto top of post cap. The inside of the wall at topper's crown *must* come in contact with the post cap.
- 1c. Level and plumb post topper.
- 1d. Secure to post in six (6) places as shown below.

NOTE: To minimize damage to the cap, use a rubber mallet to *GENTLY* drive cap into fully seated position; to ensure complete contact with the top of the post topper, use a rubber mallet to *GENTLY* tap all the way around the top of the post topper.

**FINAL STEP**

Refer to **Final Assembly installation** located behind *Installations 101* in Installation Manual.

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## Side-by-Side Slide, Bump & Glide Slides & Ski Slide

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
718-700	Side-by-Side Slide from 3' Deck	2
718-728-4	Bump & Glide Slide from 4' Deck	2
718-728-5	Bump & Glide Slide from 4'-6" to 5'-6" Deck	3
718-874	Skil Slide from 3' Deck	3

*Note: Deck Systems are NOT included in these assemblies. Please refer to Construction Drawings for the model particular to your system.*

### TOOLS AND EQUIPMENT (REQUIRED)

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

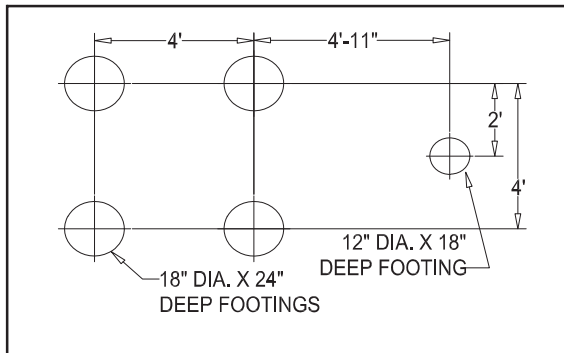
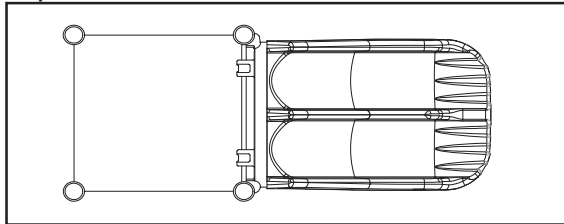
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4's, wood pieces, concrete blocks, bricks, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Rubber mallet
7. Step ladder
8. Drill, drill bits, extension cords, power supply
9. Adult installers - 2 minimum



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# Side-by-Side Slide, Bump & Glide Slides & Ski Slide

Top View



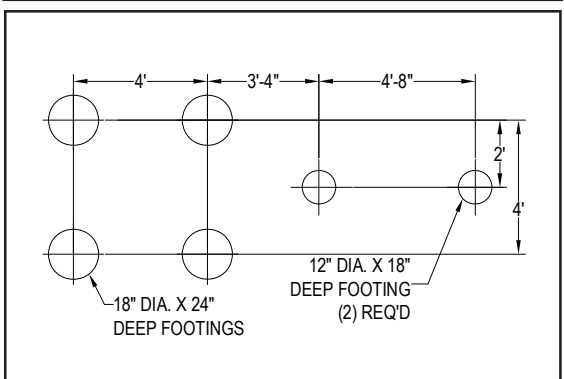
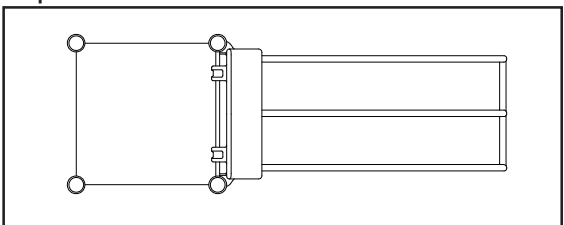
Footing Layout

**718-700**

Side-by-Side Slide from 3' Deck



Top View



Footing Layout

**718-728-4**

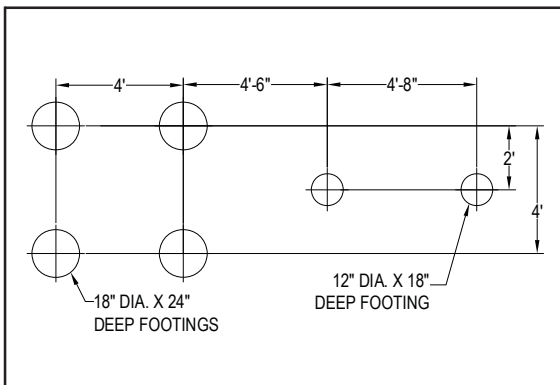
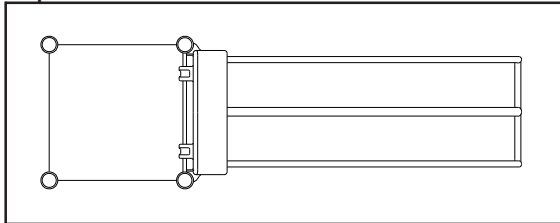
Bump & Glide Slide from 4' Deck



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# Side-by-Side Slide, Bump & Glide Slides & Ski Slide

Top View

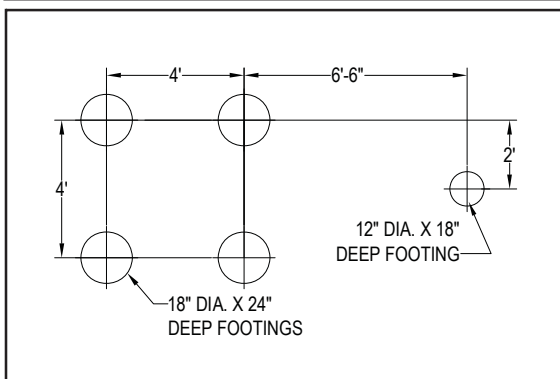
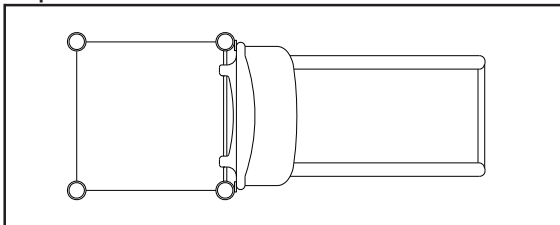


Footing Layout

**718-728-5**

Bump & Glide Slide from  
4'-6" to 5'-6" Deck


Top View



Footing Layout

**718-874**

Ski Slide from 3' Deck



Side-by-Side, Bump &amp; Glide &amp; Ski Slide

718-700, 718-728-4, 718-728-5, 718-874

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## Side-by-Side Slide, Bump & Glide Slides & Ski Slide

### STEP 1 INSTALL DECK SYSTEM

1a. Install deck system per separate instructions. Plumb, level and brace in position.

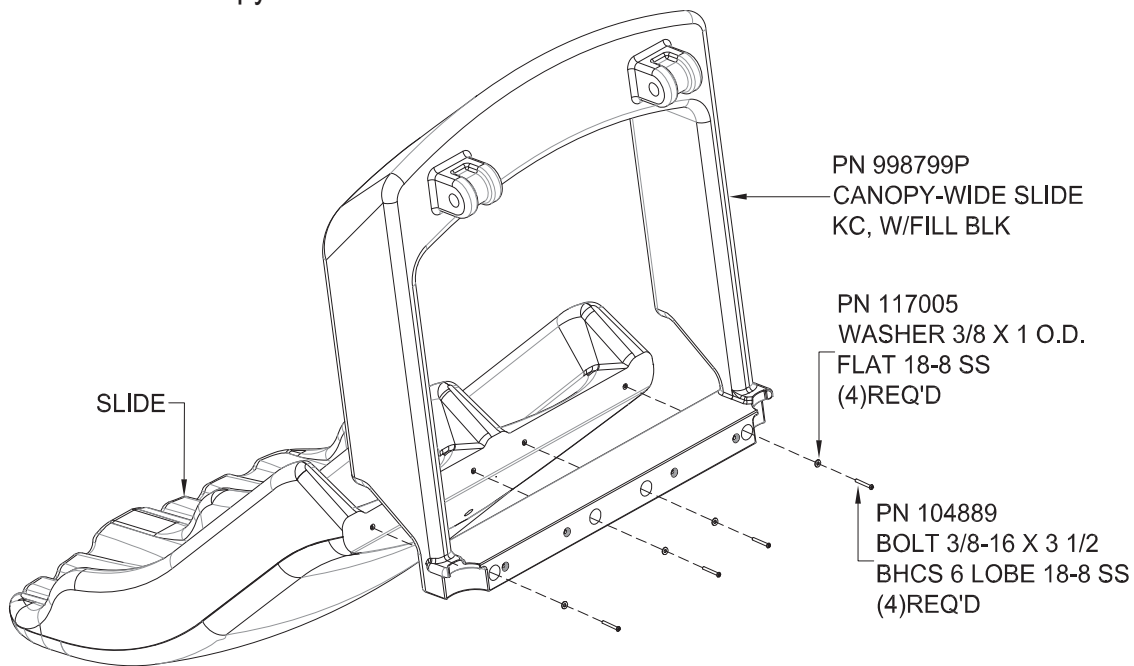
### STEP 2 DIG FOOTINGS

2a. Dig footings per *Footing Layout*, Construction Drawings and **Footing Details** installation.

*Note: Do not pour concrete for footings, or permanently secure clamps to posts with self-drilling screws, until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*

### STEP 3 SECURE CANOPY TO SLIDE

3a. Secure canopy to slide as shown.



### STEP 4 TAP RUNG INTO CANOPY TOP

4a. Use rubber mallet to gently tap 41-1/2" rung (PN 713110P) through canopy top until equal lengths are exposed on each end.

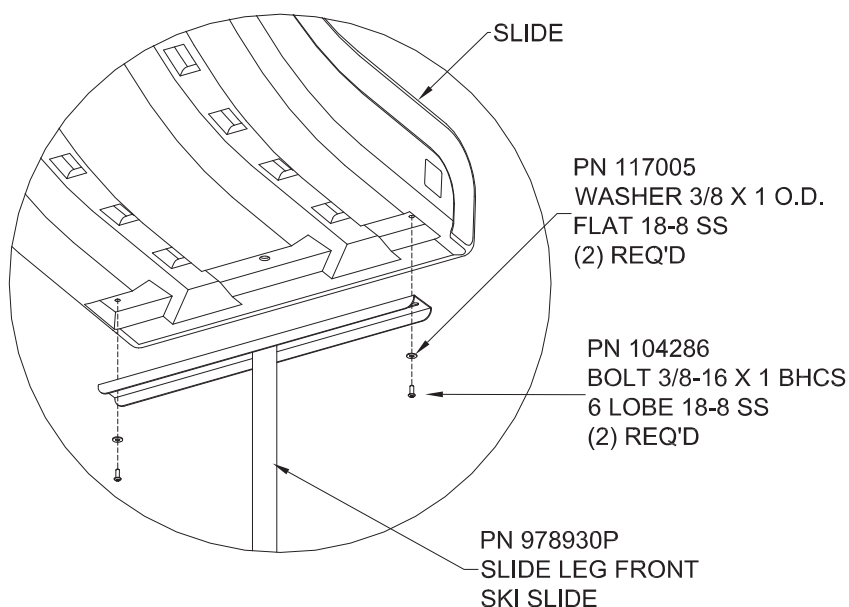
Tots' Choice®

## Side-by-Side Slide, Bump & Glide Slides & Ski Slide

### STEP 5 ATTACH FRONT LEG

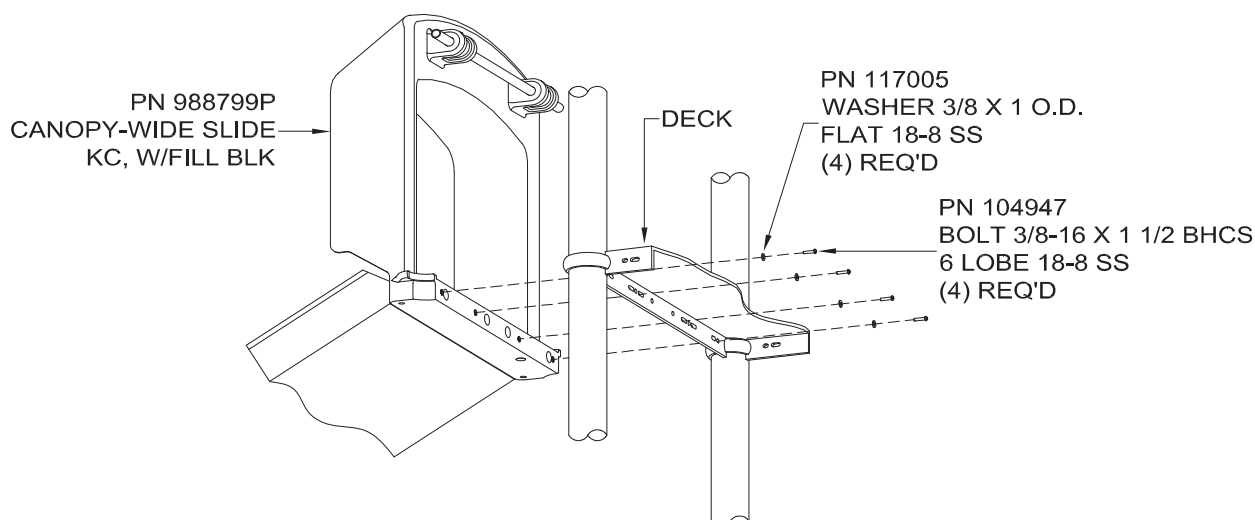
5a. Attach front leg to slide as shown.

Note: If applicable, attach middle leg to slide.



### STEP 6 AFFIX CANOPY TO DECK

6a. Set slide leg(s) into footing(s) and position canopy against deck. Use drill to remove excess material from mating bolt holes in deck edge. Fasten canopy to deck as shown.



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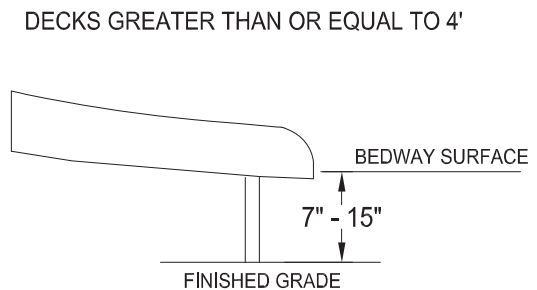
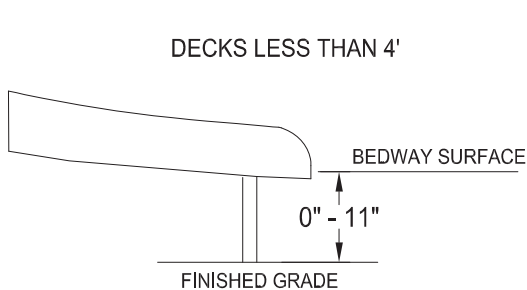
## Side-by-Side Slide, Bump & Glide Slides & Ski Slide

### **STEP 7** AFFIX CLAMP RINGS TO POSTS; BAR SOCKETS TO CLAMPS

- 7a. Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.
- 7b. Loosely assemble clamp ring halves around each post so that bottom edge of each clamp is **37-3/8"** from top edge of deck-supporting clamps. Loosely assemble a bar socket on each clamp ring.
- 7c. Seat rung ends in bar sockets; plumb and level canopy; tighten rung in bar sockets; bar sockets on clamps; clamp rings on posts.

### **STEP 8** SET BEDWAY HEIGHT

- 8a. Set height of slide bedway exit's top surface from finished grade as shown.
- 8b. Plumb leg(s) and block in position ensuring the bedway will drain water.



### **FINAL STEP**

Proceed with **Final Assembly** installation.



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## Imagination Panels & Activity Panels

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

Models included in this installation guide:

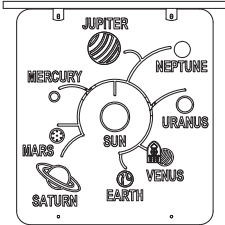
<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
718-617	Space Ship Panel	2
718-714-1	Park Ranger Panel	2
718-714-2	Fire Truck Panel	2
718-714-3	Police Panel	2
718-714-4	Train Panel	2
718-714-5	Taxi Panel	2
718-714-6	Pilot Panel with Window	2
718-714-7	Pilot Panel	2
718-714-8	Race Car Panel	2
718-715-1	Alphabet Panel	2
718-715-2	Finger Maze Panel	2
718-715-3	Jump Panel (3' Deck)	2
718-715-4	Calculator Panel	2
718-715-5	Jump Panel (5' Deck)	2
718-715-10	Sign Language Panel	2
718-715-11	Spanish Panel	2
718-715-12	Braille Panel	3
718-715-13	Calypso 3-Drum Panel	3
718-715-15	Chinese Panel	3
718-715-20	Activity Panel Frame	3
718-732	Welcome Panel (5-12)	3
718-732-1	Welcome Panel (2-5)	3
718-732-2	Welcome Panel (2-12)	3
718-761-2	Piston Panel	3
718-761-3	Gear Panel	3
718-761-4	Sliding Tile Panel	3

*Note: Deck systems are NOT included in these assemblies. Please refer to Construction Drawings for the model particular to your system.*

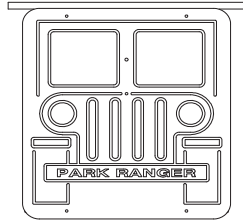
Tots' Choice®

## Imagination Panels & Activity Panels

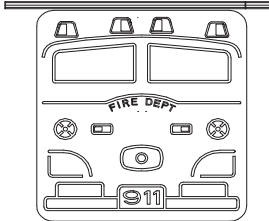
**718-617:**  
**Space Ship Panel**



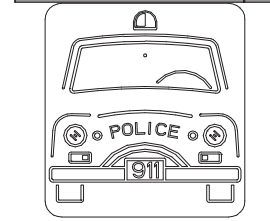
**718-714-1:**  
**Park Ranger Panel**



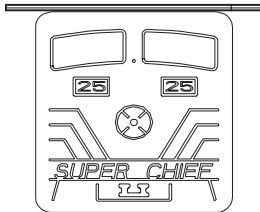
**718-714-2:**  
**Fire Truck Panel**



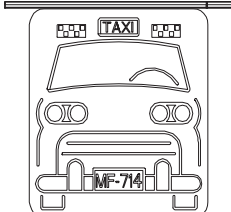
**718-714-3:**  
**Police Panel**



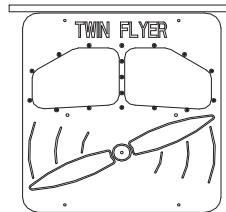
**718-714-4:**  
**Train Panel**



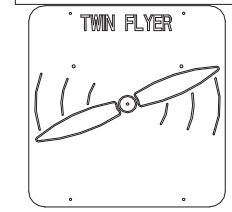
**718-714-5:**  
**Taxi Panel**



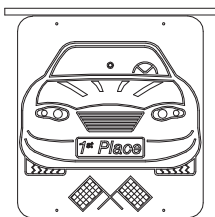
**718-714-6:**  
**Pilot Panel w/ Window**



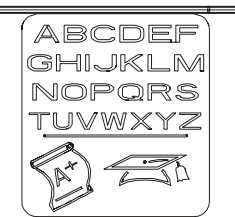
**718-714-7:**  
**Pilot Panel**



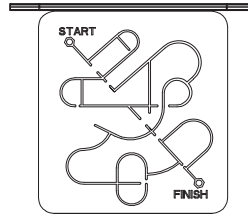
**718-714-8:**  
**Race Car Panel**



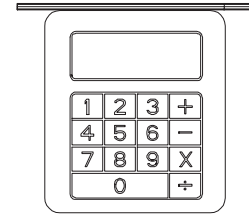
**718-715-1:**  
**Alphabet Panel**



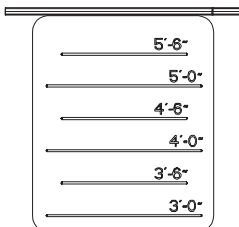
**718-715-2:**  
**Finger Maze Panel**



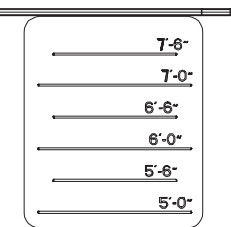
**718-715-4:**  
**Calculator Panel**



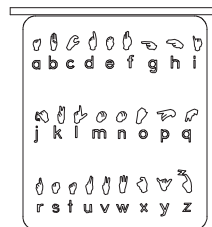
**718-715-3:**  
**Jump Panel (3' Deck)**



**718-715-5:**  
**Jump Panel (5' Deck)**



**718-715-10:**  
**Sign Language Panel**



**718-715-11:**  
**Spanish Panel**

Numbers	Colors
0 = cero	red = rojo
1 = uno	white = blanco
2 = dos	blue = azul
3 = tres	purple = morado
4 = cuatro	green = verde
5 = cinco	orange = naranja
6 = seis	yellow = amarillo
7 = siete	black = negro
8 = ocho	brown = marron
9 = nueve	pink = rosa
10 = diez	gold = dorado

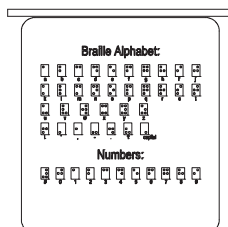
Top Views and Footing Layouts not shown. These models mount vertically on deck systems.

718-617, 718-714-1, 718-714-2, 718-714-3, 718-714-4, 718-714-5, 718-714-6, 718-714-7, 718-714-8, 718-715-1, 718-715-2, 718-715-3, 718-715-4, 718-715-5, 718-715-10, 718-715-11, 718-715-12, 718-715-13, 718-715-15, 718-715-20, 718-732, 718-732-1, 718-732-2, 718-761-2, 718-761-3, 718-761-4

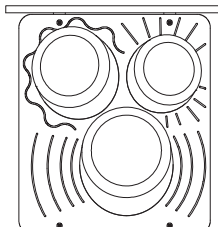
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## Imagination Panels & Activity Panels

**718-715-12:  
Braille Panel**



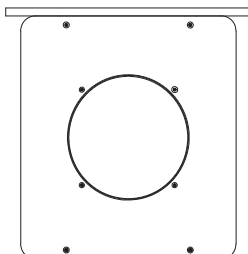
**718-715-13:  
Calypso 3-Drum Panel**



**718-715-15:  
Chinese Panel**



**718-715-20:  
Activity Panel Frame**



**718-732-1:  
Welcome Panel (2-5)**



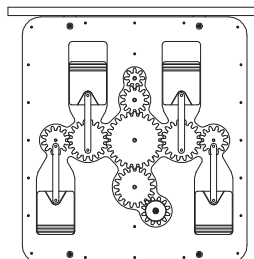
**718-732-2:  
Welcome Panel (2-12)**



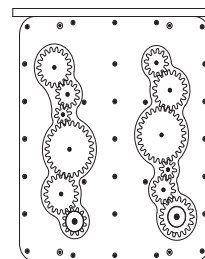
**718-732:  
Welcome Panel (5-12)**



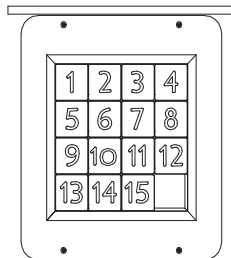
**718-761-2:  
Piston Panel**



**718-761-3:  
Gear Panel**



**718-761-4:  
Sliding Tile Panel**



Top Views and Footing Layouts not shown. These models mount vertically on Deck systems.

Imagination Panels & Activity Panels

718-617, 718-714-1, 718-714-2, 718-714-3, 718-714-4, 718-714-5, 718-714-6, 718-714-7, 718-714-8, 718-715-1,  
718-715-2, 718-715-3, 718-715-4, 718-715-5, 718-715-10, 718-715-11, 718-715-12, 718-715-13, 718-715-15, 718-  
715-20, 718-732, 718-732-1, 718-732-2, 718-761-2, 718-761-3, 718-761-4



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## Imagination Panels & Activity Panels

### TOOLS AND EQUIPMENT REQUIRED

Also see "Suggested Tools & Equipment" (Doc. # D75002) in "Installations 101"

1. Tape measure and level
2. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
3. Step ladder
4. Drill, drill bits, extension cords, power supply
5. Adult installers - 2 minimum

### STEP 1 INSTALL DECK SYSTEM

- 1a. Install deck system per separate instructions. Plumb, level and brace in position.

*Note: Do not pour concrete for footings or permanently affix clamps to posts with self-drilling screws until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*

### STEP 2 DRILL EXCESS PVC FROM DECK MATING BOLT HOLES

- 2a. Center panel between posts against deck face to locate and mark mating bolt holes. Use drill to remove excess PVC from only those holes in the deck.

### STEP 3 LOOSELY ATTACH CLAMP RINGS TO POSTS

- 3a. Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.
- 3b. Loosely assemble clamp rings around deck posts so that bottom edge of each is **37-3/8"** from top edge of deck-supporting clamp. It is acceptable to approximate position of clamps until panel is completely installed. Loosely affix bar sockets to clamps.

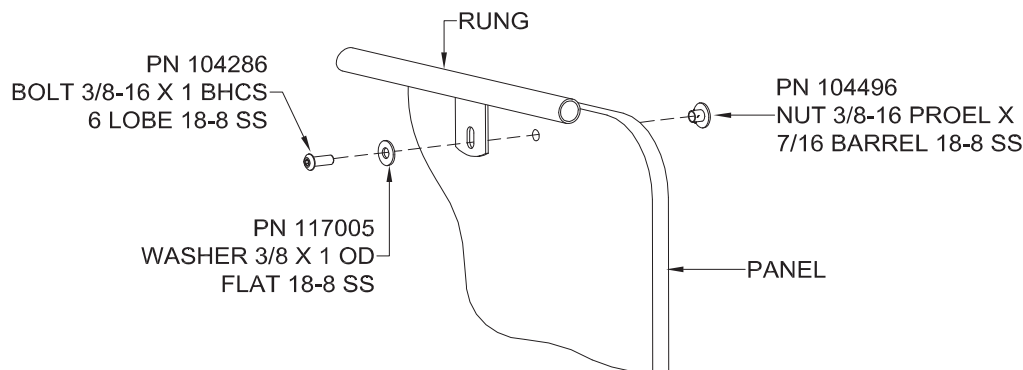
718-617, 718-714-1, 718-714-2, 718-714-3, 718-714-4, 718-714-5, 718-714-6, 718-714-7, 718-714-8, 718-715-1, 718-715-2, 718-715-3, 718-715-4, 718-715-5, 718-715-10, 718-715-11, 718-715-12, 718-715-13, 718-715-15, 718-715-20, 718-732, 718-732-1, 718-732-2, 718-761-2, 718-761-3, 718-761-4

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## Imagination Panels & Activity Panels

### STEP 4 ATTACH RUNG BRACKET TO PANEL

4a. Attach rung bracket to **top** of panel as shown.



4b. *Model 718-761-2 Piston Panel and Model 718-761-3 Gear Panel:*

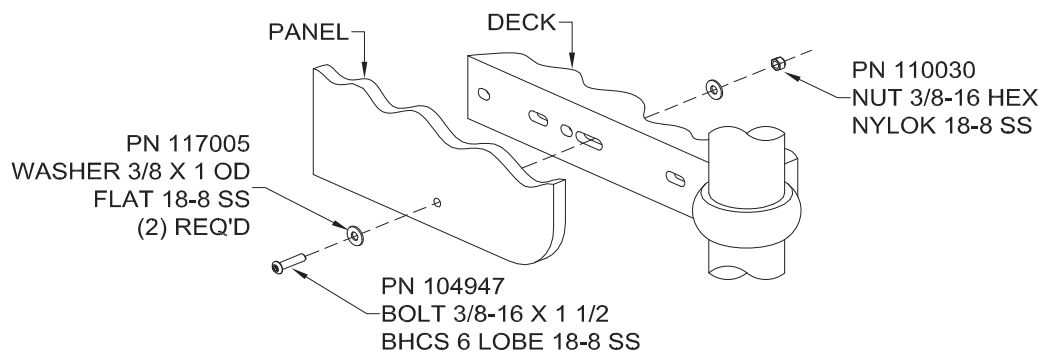
- Determine panel assembly's "top" for rung bracket attachment. Knobs should be located to ensure comfortable operation by users either *on* or *off* deck. In general, knobs should be at panel top if gear mechanism faces inward (for users standing on deck), or at bottom if gear mechanism faces outward (for users standing on ground or lower deck).

4c. *Model 718-715-13 Calypso 3-Drum Panel:*

- Determine panel assembly's "top" for rung bracket attachment. Calypso 3-drum panel must be attached so drums are angled *UPWARD*.

### STEP 5 AFFIX PANEL TO DECK

5a. Replace panel against deck. Attach bottom of panel to deck face with bolts through outermost holes.



*Note: Model's 718-761-2 and 718-761-3 will use PN 304007 (3/8" X 1-5/8" BHCS).*

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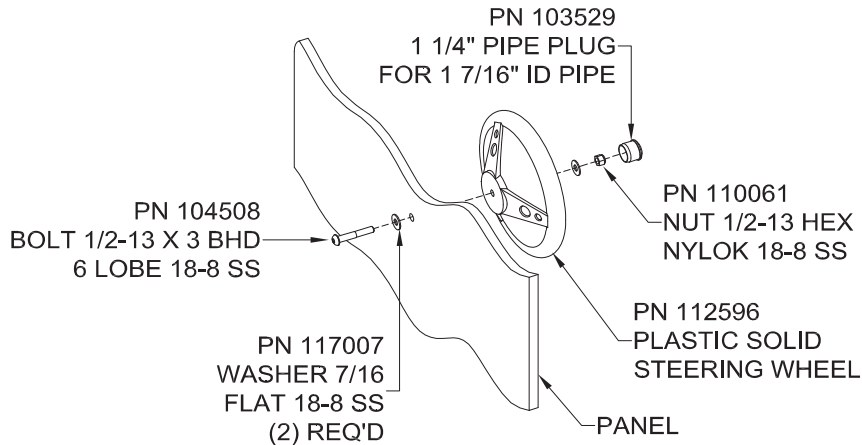
## Imagination Panels & Activity Panels

### STEP 6 INSERT RUNG BRACKETS IN BAR SOCKETS

- 6a. Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.
- 6b. Insert rung bracket ends in bar sockets and tighten in place. Plumb and level panel assembly. Tighten bar sockets on clamps and clamp rings around posts.

### STEP 7 SECURE STEERING WHEEL(S), IF APPLICABLE

- 7a. If applicable, secure steering wheel(s) to panel assembly as shown.



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

718-617, 718-714-1, 718-714-2, 718-714-3, 718-714-4, 718-714-5, 718-714-6, 718-714-7, 718-714-8, 718-715-1, 718-715-2, 718-715-3, 718-715-4, 718-715-5, 718-715-10, 718-715-11, 718-715-12, 718-715-13, 718-715-15, 718-715-20, 718-732, 718-732-1, 718-732-2, 718-761-2, 718-761-3, 718-761-4



# Installation Guide

March 18, 2005

Rev. A

Tots' Choice®

## Vertical Climbers

Cliff Climber, Canyon Climber, Trap Door Climber, Climbing Pole & Spider Climber

Deck system not included in these assemblies.

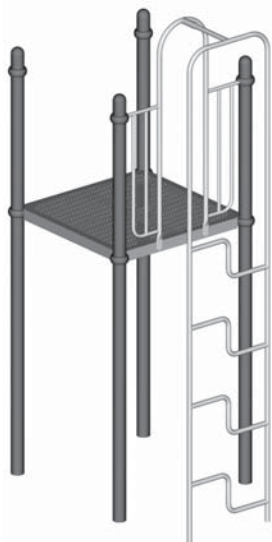
### 718-719\* & 718-719-6

### 718-721 & 718-721-6

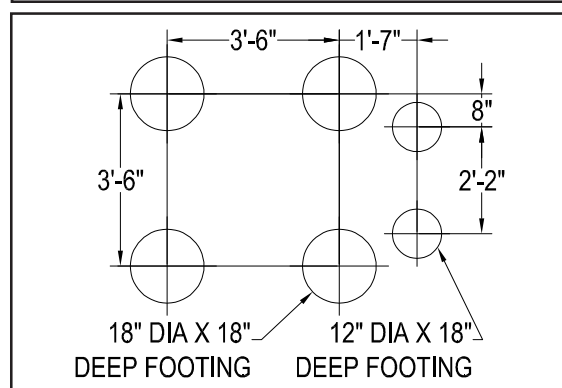
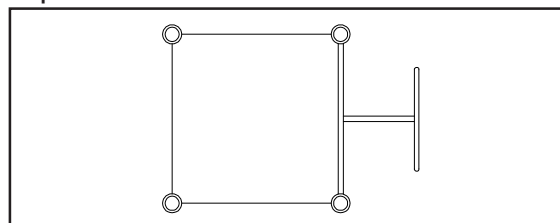
5 Additional Models

#### Cliff Climber for 6' or 6'-6" Deck

\* Model # 718-719 Cliff Climber for 3' or 5' Deck not shown. Top View, Footing Layout and Installation are identical.



#### Top View



#### Footing Layout

### 718-719 & 718-719-6

### 718-721\* & 718-721-6

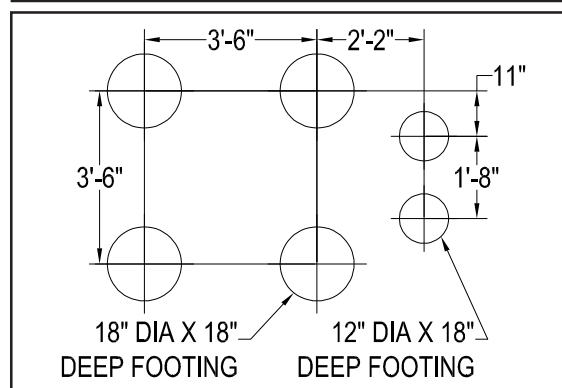
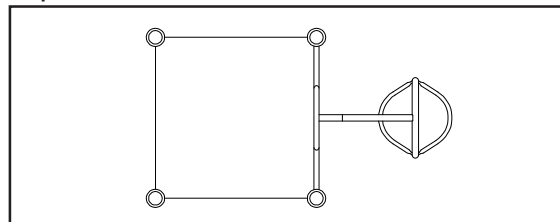
5 Additional Models

#### Canyon Climber for 6' or 6'-6" Deck

\* Model # 718-721 Canyon Climber for 3' or 5' Deck not shown. Top View, Footing Layout and Installation are identical.



#### Top View



#### Footing Layout

Vertical Climbers

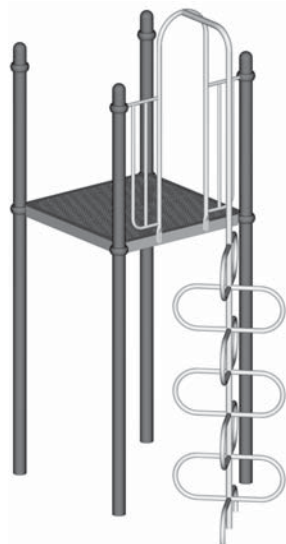
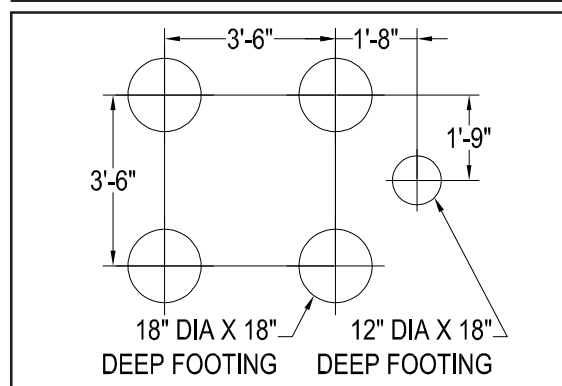
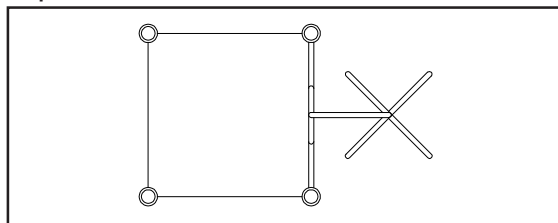
718-719, 718-719-6, 718-721, 718-721-6, 718-731, 718-731-6, 718-808, 718-808-8, 718-908

Tots' Choice®

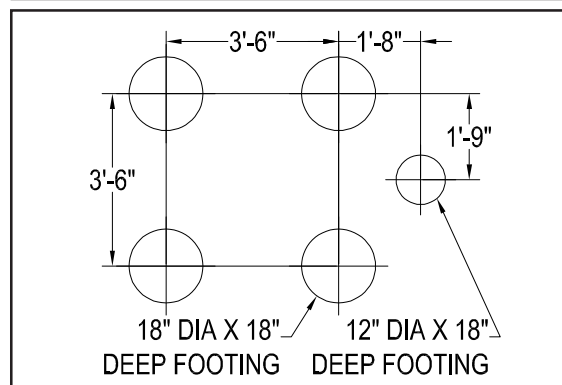
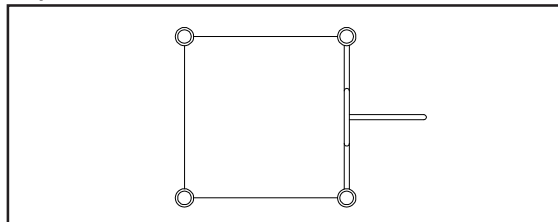
## Vertical Climbers

**718-731\* & 718-731-6****718-808 & 718-808-8***1 Additional Model***Trap Door Climber for 6' or 6'-6" Deck**

\* Model # 718-731 Trap Door Climber for 3' or 5' Deck not shown. Top View, Footing Layout and Installation are identical.

**Top View****Footing Layout****718-731 & 718-731-6****718-808\* & 718-808-8***1 Additional Model***Climbing Pole for 8' Deck**

\* Model # 718-808 Climbing Pole for 3', 5', 6' or 6'-6" Deck not shown. Top View, Footing Layout and Installation are identical.

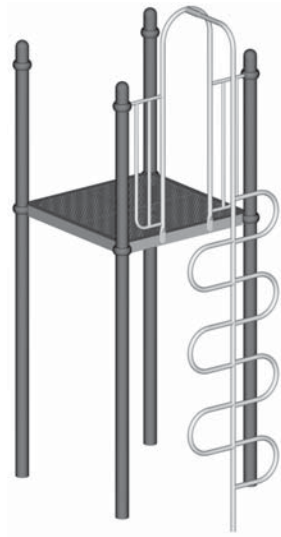
**Top View****Footing Layout**



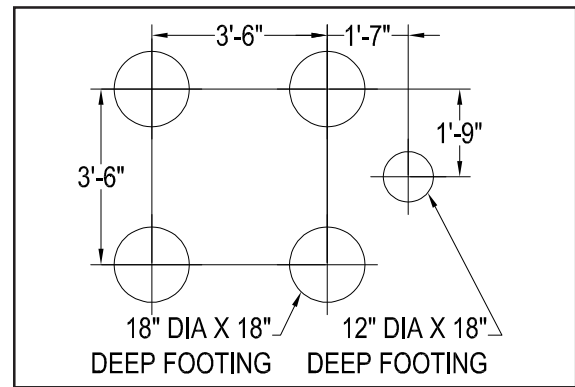
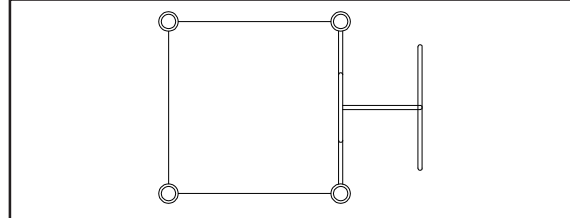
Tots' Choice®  
**Vertical Climbers**

**718-908**

**Spider Climber for 3', 5', 6' or 6'-6" Deck**



Top View

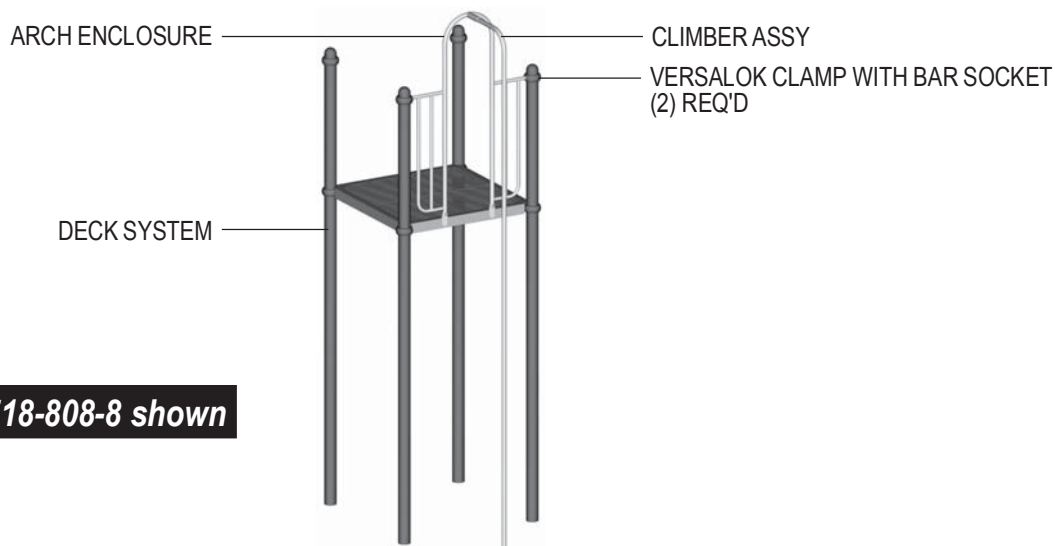


Footing Layout

**Vertical Climbers**

718-719, 718-719-6, 718-721, 718-721-6, 718-731, 718-731-6, 718-808, 718-808-8, 718-908

Tots' Choice®

**Vertical Climbers****PARTS IDENTIFICATION****Model # 718-808-8 shown****RECOMMENDED ASSEMBLY SEQUENCE**

1. Deck system (per separate instructions)
2. Footing(s)
3. Clamps with Bar Sockets loosely to Deck Posts
4. Arch Enclosure to Deck and to Posts (via Clamps)
5. Climber Assembly into footing(s), to Arch Enclosure
6. Final Assembly

**TOOLS AND EQUIPMENT REQUIRED**

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, jack stands, sawhorses, concrete blocks, bricks, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Step ladder
8. Adult installers - 2 minimum



Tots' Choice®  
**Vertical Climbers**

### STEP 1

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

### STEP 2

Install Deck system per separate instructions. Plumb, level and brace in position.

**Note:** *Do not pour concrete for footings, or permanently secure Clamps to Posts with self-drilling screws, until all components in system have been installed per instructions and braced in position level and plumb.*

### STEP 3

Dig footings per *Footing Layouts*, Construction Drawings, and to **Footing Details** installation.

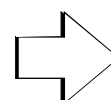
### STEP 4

Refer to **Versalok Fastening System** installation.

Loosely affix a Bar Socket (with 1-1/16" diameter hole) to each set of Clamp Ring halves. Loosely assemble Clamps on Posts so that bottom edge of each is **37-1/2"** from top edge of Deck-supporting Clamp.

### STEP 5

Position Arch Enclosure against Deck, aligning holes in mashed ends of plumb Enclosure uprights with bolt holes in Deck face. Use drill to ream excess PVC from only those holes in Deck.



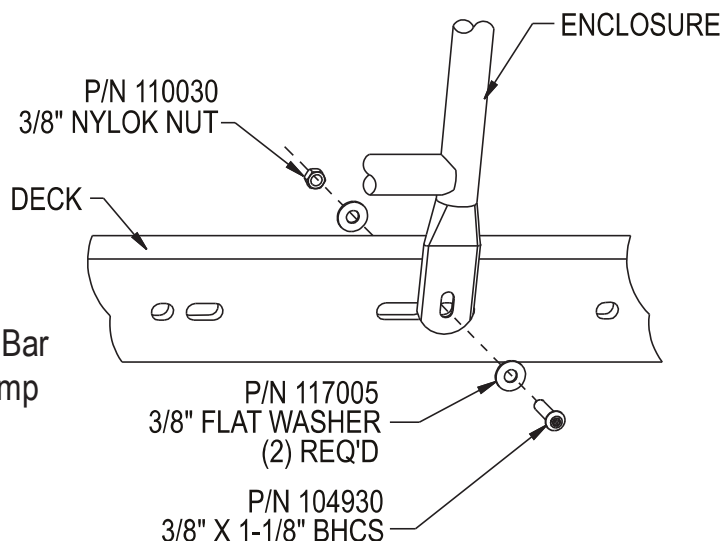


Tots' Choice®

## Vertical Climbers

### STEP 6

Refer to **Versalok Fastening System** installation. Place Enclosure's top rails into Bar Sockets, aligning bottom holes in Enclosure uprights with holes in Deck. Plumb and level Arch Enclosure and secure to Deck as shown. Tighten rails in Bar Sockets, Bar Sockets to Clamps, and Clamp Rings around Posts.



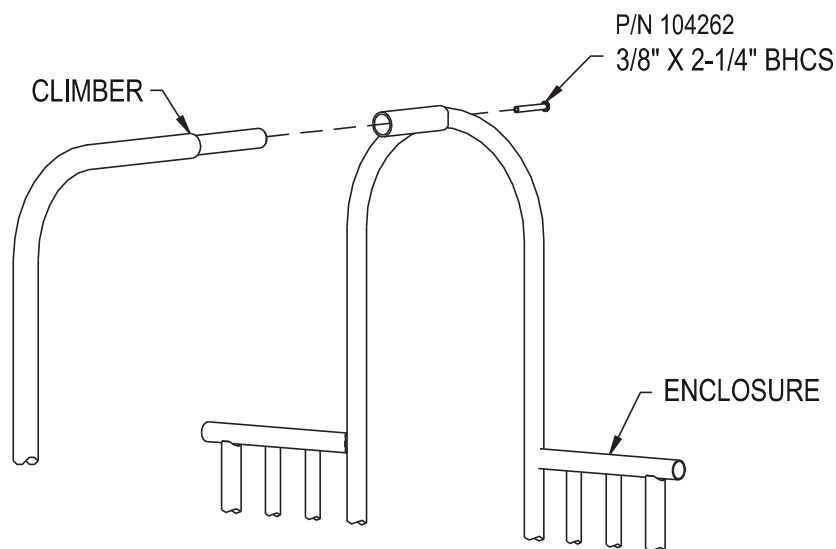
### STEP 7

Set Climber into footing(s).

**Note: Some Climber Assemblies require cutting at bottom end to properly fit certain Deck heights. If necessary, measure 90" from top surface of Climber and add distance of Deck height from finished grade to locate cut mark. (This formula allows for 12" of protective surfacing and allows adjusted Climber to reach bottom of footing hole). Cut Climber at mark.**

### STEP 8

Firmly seat stub at top of Climber Assembly in Arch Enclosure's sleeve. Attach Climber to Arch Enclosure as shown.



### FINAL STEP

Proceed with **Final Assembly** installation.

Tots' Choice® - Mira-Therm II

360° Typhoon II Slides from 4', 5' and 6' Decks

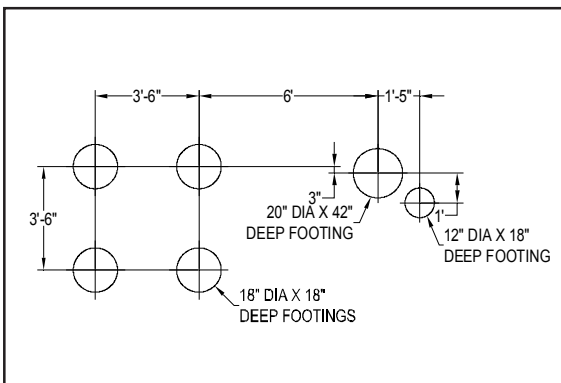
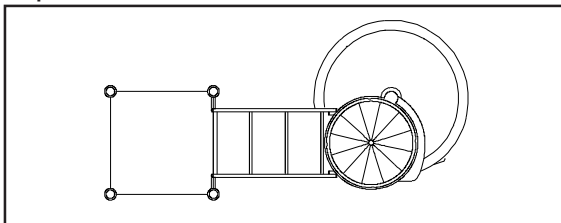
**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

**Models included in this installation guide:**

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-748-49	360° Typhoon II Slide from 4' Deck (6'-2" Platform)	1
718-748-59	360° Typhoon II Slide from 5' Deck (6'-2" Platform)	2
718-748-69	360° Typhoon II Slide from 6' Deck (6'-0" Platform)	2

*Deck system not included in these assemblies.*

Top View



Footing Layout

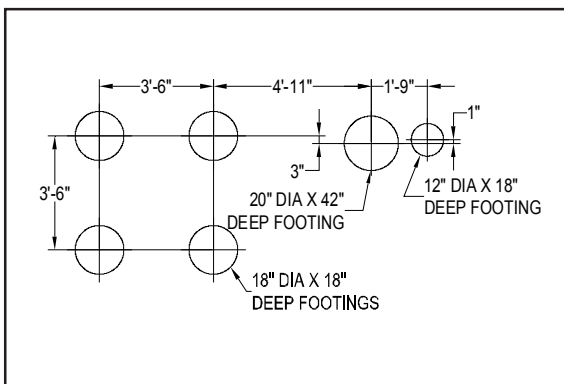
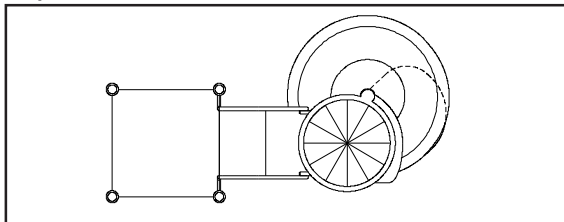
## 718-748-49

**360° Typhoon II Slide from 4' Deck**  
(6'-2" Platform)



Tots' Choice® - Mira-Therm II  
360° Typhoon II Slides

Top View



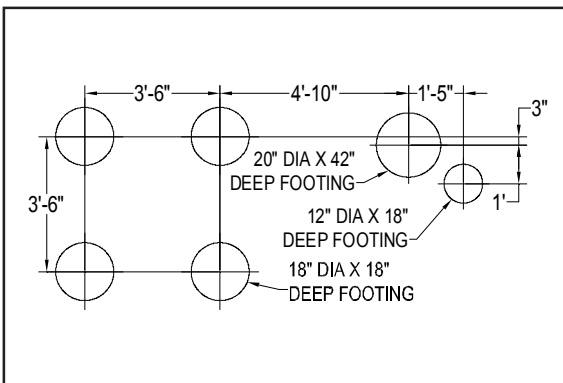
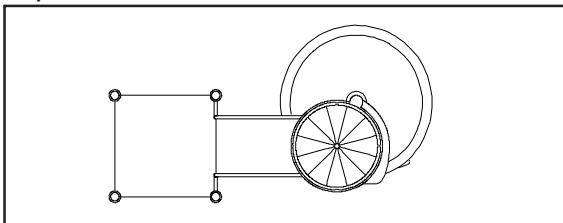
Footing Layout

**718-748-59**

**360° Typhoon II Slide from 5' Deck  
(6'-2" Platform)**



Top View



Footing Layout

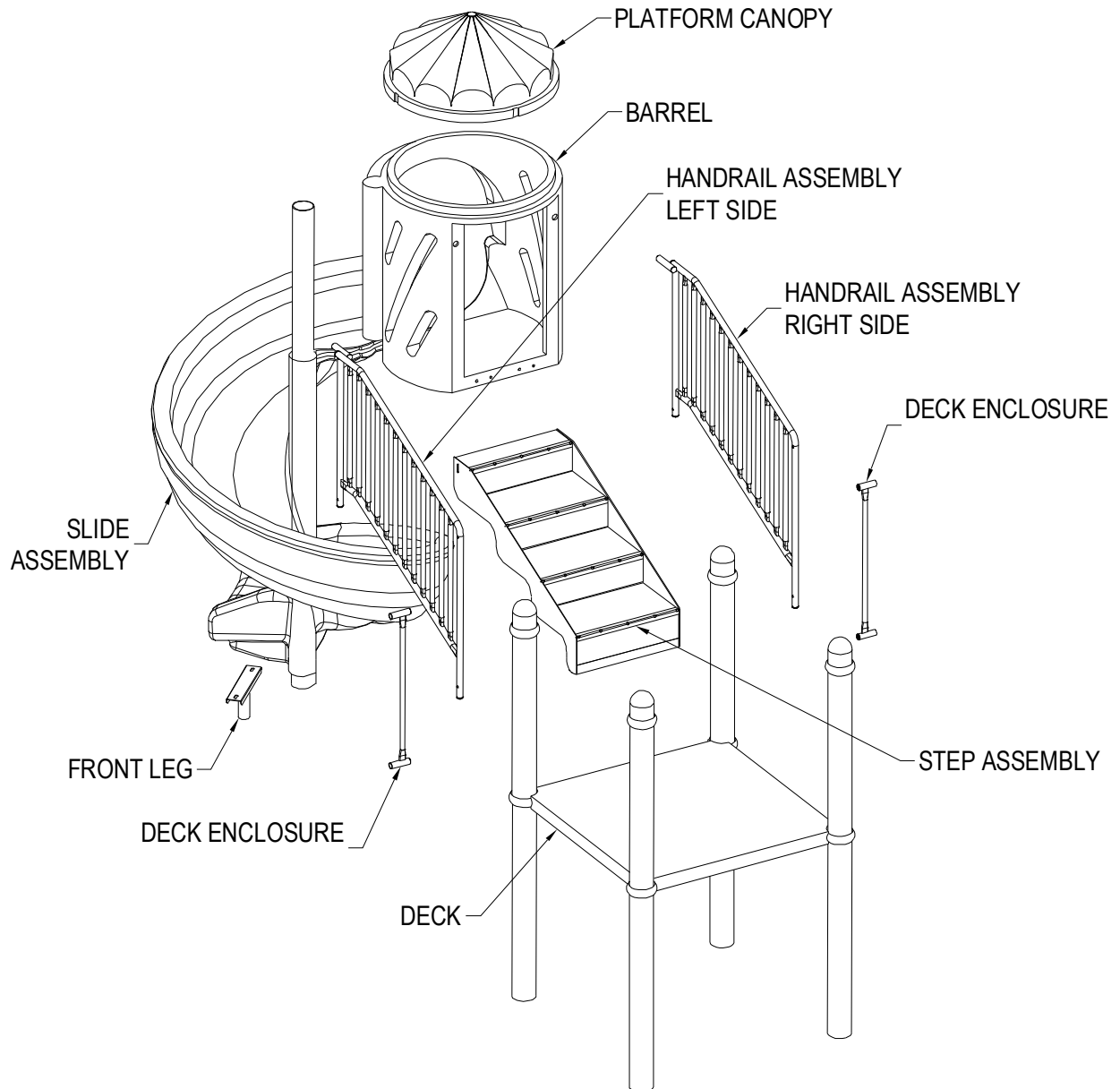
**718-748-69**

**360° Typhoon II Slide from 6' Deck  
(6'-0" Platform)**



Tots' Choice® - Mira-Therm II  
**360° Typhoon II Slides**

**PARTS IDENTIFICATION**



See next page for **Recommended Assembly Sequence**  
and **Tools and Equipment Required** for installation.

Tots' Choice® - Mira-Therm II  
**360° Typhoon II Slides**

### RECOMMENDED ASSEMBLY SEQUENCE

1. Deck system (per separate instructions)
2. Footings
3. Clamps with Bar Sockets loosely to Posts
4. Deck Enclosures to Posts (via Clamps)
5. Ramp/Stair Enclosures to Deck Enclosures
6. Ramp/Stair to Deck
7. Ramp/Stair Enclosures to Ramp or Stair
8. Front Leg to Slide
9. Center Pole and Front Leg into footings; Ramp/Stair Enclosure stubs into Barrel
10. Ramp/Stair to Barrel
11. Platform Canopy to Barrel
12. Final Assembly

### TOOLS AND EQUIPMENT REQUIRED

*Also see "Suggested Tools & Equipment" (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footing holes (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, concrete blocks, bricks, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Step ladder
8. Adult installers - 3 minimum

Tots' Choice® - Mira-Therm II  
360° **Typhoon II Slides**

**STEP 1** PREPARE FOR INSTALLATION

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

**STEP 2** INSTALL DECK SYSTEM

Install Deck system per separate instructions. Plumb, level, and brace in position.

**Note:** Do not pour concrete for footings, or permanently secure Clamps to Posts with self-drilling screws, until all components in system have been installed per instructions and braced in position level and plumb.

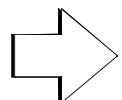
**STEP 3** DIG FOOTINGS

Dig footings per *Footing Layout*, Construction Drawings, and **Footing Details** installation.

**STEP 4** AFFIX CLAMPS (WITH BAR SOCKETS) LOOSELY TO POSTS

Refer to **Versalok Fastening System** installation.

Loosely affix a Bar Socket (with 1-3/8" diameter hole) to each set of Clamp Ring halves. Loosely assemble *upper* set of Clamp Rings around Posts so that bottom edge of each Clamp is **37-1/2"** from top edge of Deck-supporting Clamps. *Lower* Clamp Rings will be located by Deck Enclosure bottom stubs.



Tots' Choice® - Mira-Therm II  
360° **Typhoon II Slides**

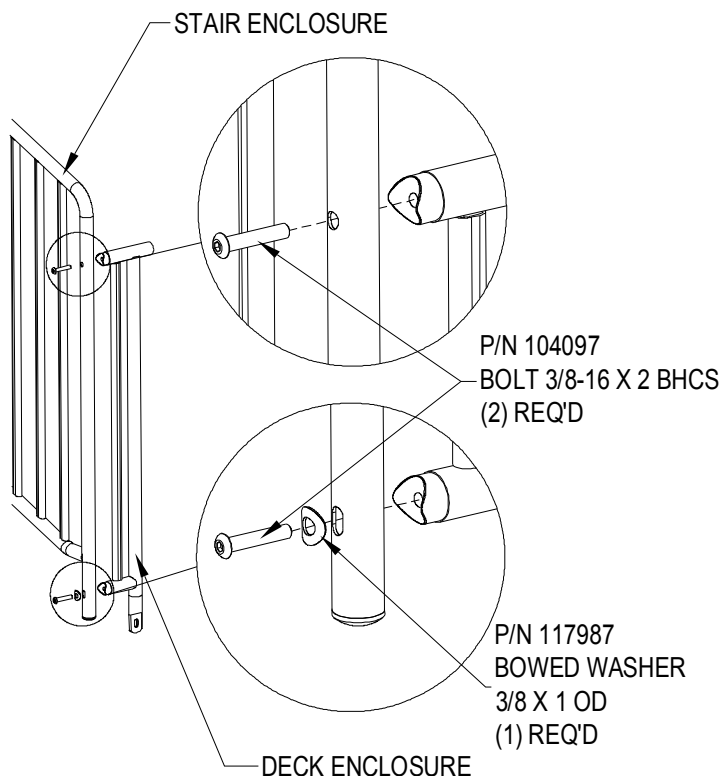
**STEP 5** ATTACH DECK ENCLOSURES TO POSTS (VIA CLAMPS)

Refer to **Versalok Fastening System** installation. Insert non-threaded ends of Deck Enclosures into Bar Sockets on Clamps.

Repositioning Clamps as needed, plumb and level Enclosures. Tighten Enclosure stubs in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts.

**STEP 6** ATTACH STAIR ENCLOSURE TO DECK ENCLOSURE

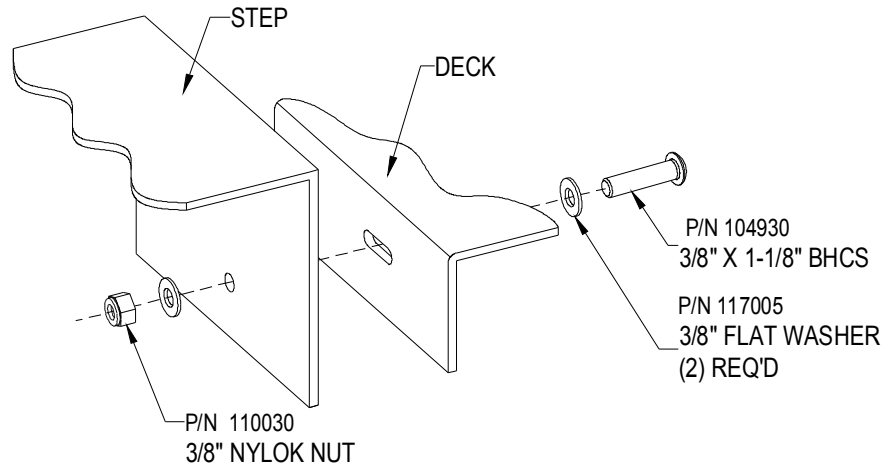
Affix Stair Enclosure to Deck Enclosures on each side of stair. Each Stair Enclosure attaches to each Deck Enclosure at two (2) locations.



Tots' Choice® - Mira-Therm II  
**360° Typhoon II Slides**

**STEP 7** SECURE RAMP/STAIR TO DECK

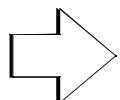
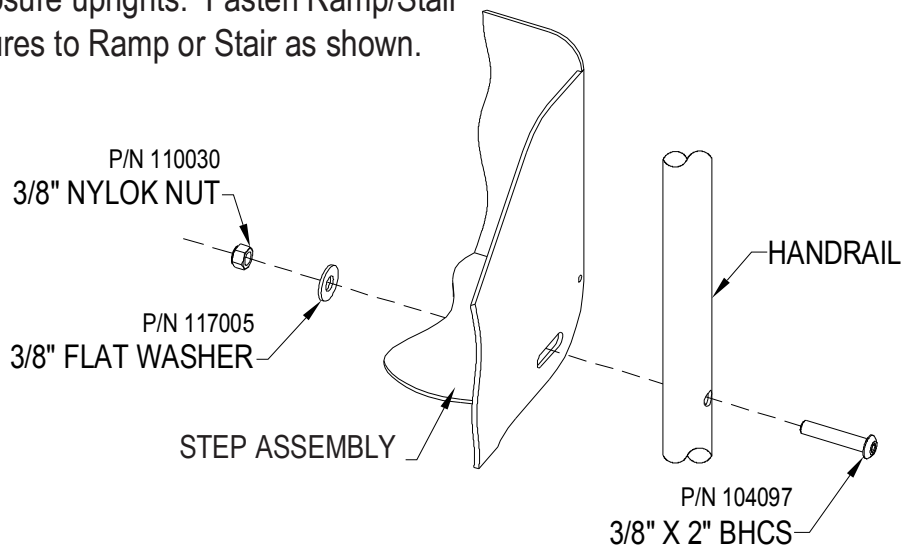
Position Ramp or Stair against Deck face to determine four mating bolt holes. Use drill to ream excess PVC from only those holes in Deck and Ramp/Stair. Replace Ramp or Stair and secure to Deck as shown. Ensure surfaces are flush before tightening hardware.



Refer to *Step 11 illustration on Page 9*. Ream excess PVC from four bolt holes in Ramp or Stair designated for attachment of Barrel.

**STEP 8** FASTEN RAMP/STAIR ENCLOSURES TO RAMP OR STAIR

Use drill to ream excess PVC from bolt hole in each side of Ramp/Stair aligned with bolt hole in Enclosure uprights. Fasten Ramp/Stair Enclosures to Ramp or Stair as shown.

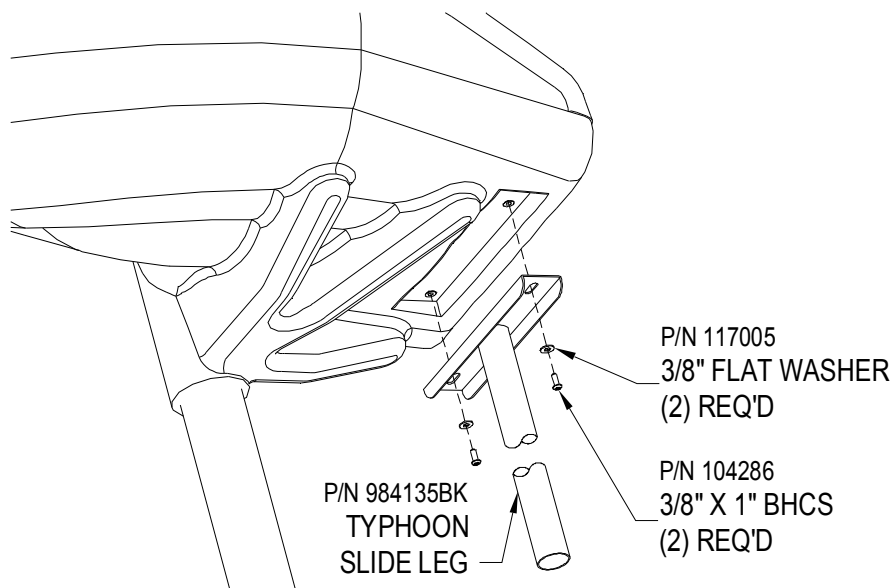




Tots' Choice® - Mira-Therm II  
360° **Typhoon II Slides**

**STEP 9** ATTACH FRONT LEG TO SLIDE

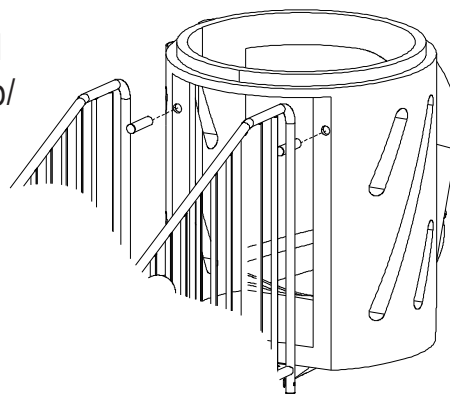
Attach Front Leg to exit of Slide Assembly as shown.



**STEP 10** SET CENTER POLE & FRONT LEG INTO FOOTINGS

Lift Slide Assembly into position, setting Center Pole and Front Leg into footings. Place Barrel against top of Ramp/Stair and insert Ramp/Stair Enclosure ends into Barrel.

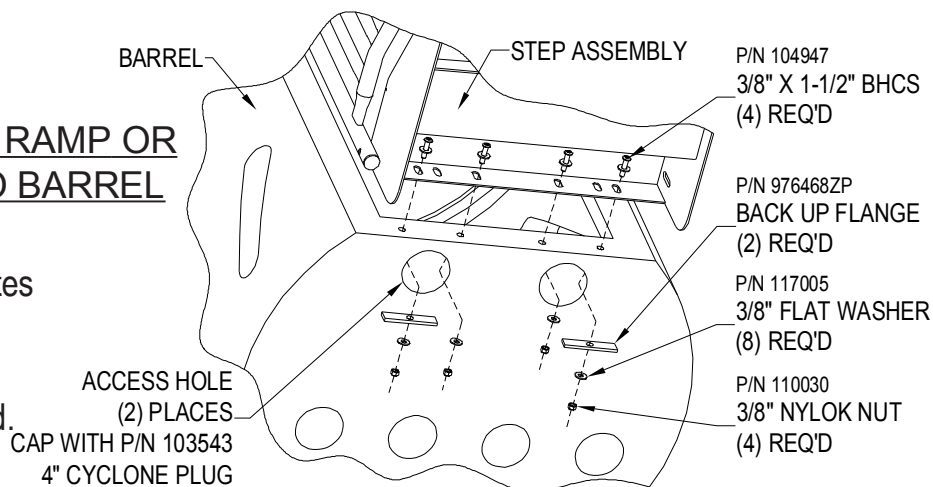
***Important: Position Barrel and Handrail so that up-right nearest Barrel is parallel to side of Barrel. Even if Slide or Handrail must be tilted slightly off plumb, priority must be given to Barrel/Handrail spacing.***



Tots' Choice® - Mira-Therm II  
**360° Typhoon II Slides**

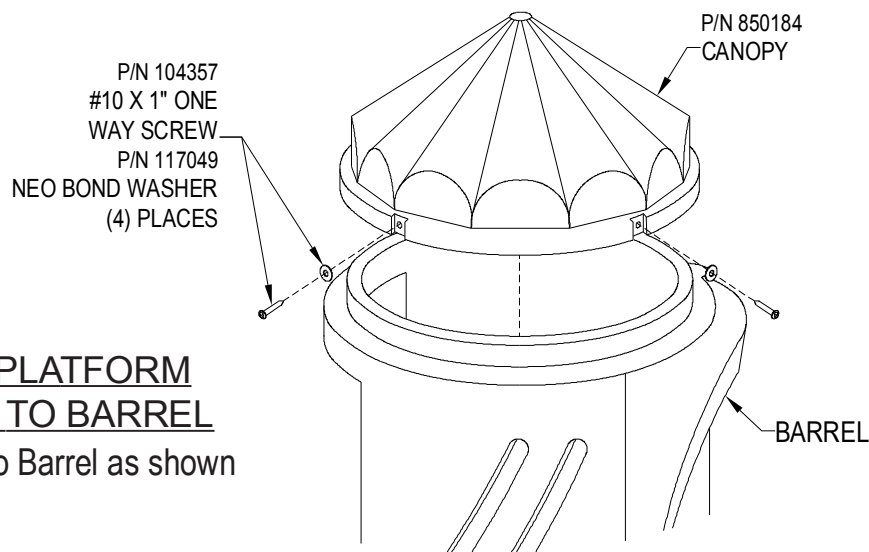
**STEP 11** SECURE RAMP OR STAIR TO BARREL

Secure Ramp or Stair to Barrel using Back-Up Plates within access holes. Cap holes with Plugs when hardware is fully tightened.



**STEP 12** ATTACH PLATFORM CANOPY TO BARREL

Attach Platform Canopy to Barrel as shown in four locations.



**STEP 13** SET SLIDE EXIT HEIGHT

Set height of Slide bedway exit **at least 7"** but **not more than 15"** from finished grade. Verify that Slide will drain water.

**FINAL STEP**

Plumb and level entire assembly. Proceed with **Final Assembly** installation.

**NOTE:** When pouring concrete for the center pole footing, do NOT cover the joint in the center pole with concrete.



# Installation Guide

Tots' Choice®

## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Ground-to-Deck, Between Decks or Freestanding; spans of 8', 10' & 12'

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-625-1	Big Timber Bongo Stump Perch	2
718-625-8	Big Timber Bongo Stump Bridge, (4) Perches; 8' Span	2
718-625-10	Big Timber Bongo Stump Bridge, (5) Perches; 10' Span	3
718-625-12	Big Timber Bongo Stump Bridge, (6) Perches; 12' Span	3
718-772-1	Bongo Perch	4
718-772-8	Bongo Bridge, (4) Perches; 8' Span	4
718-772-10	Bongo Bridge, (5) Perches; 10' Span	5
718-772-12	Bongo Bridge, (6) Perches; 12' Span	5

**NOTE:** Deck Systems are NOT included in these Assemblies.

**Please refer to Construction Drawings for the model particular to your system.**

### TOOLS AND EQUIPMENT REQUIRED

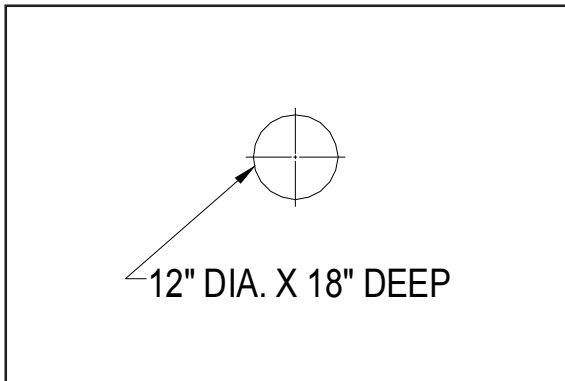
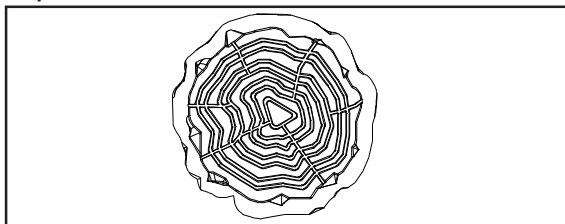
Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Tape measure and level
4. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
5. Bracing materials (2x4's, wood pieces, sawhorses, etc.)
6. Hacksaw or electric handsaw
7. Adult installers - 2 minimum

Tots' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Top View



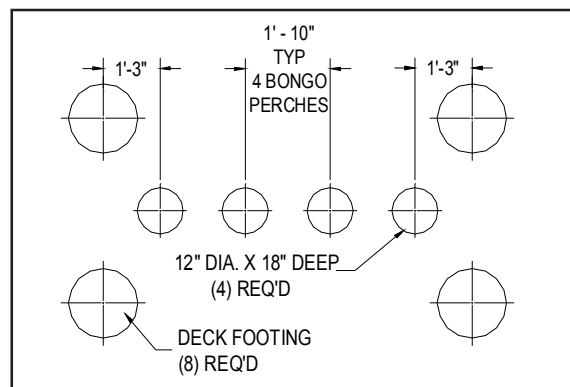
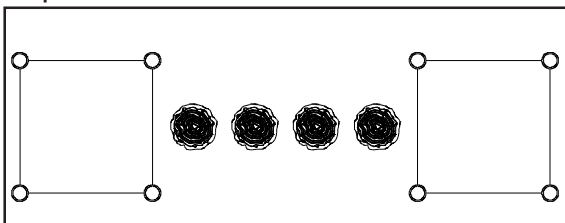
Footing Layout

**718-625-1**

**Big Timber Bongo  
Stump Perch**



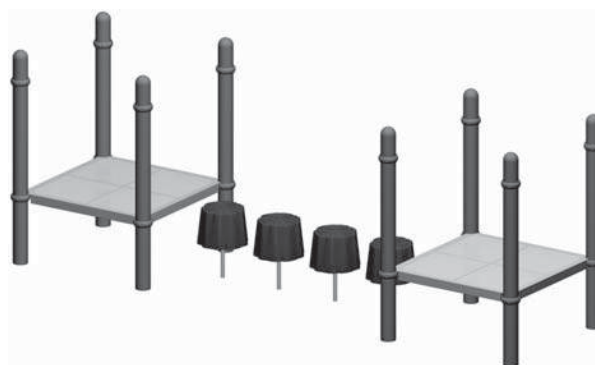
Top View



Footing Layout

**718-625-8**

**Big Timber Bongo Stump Bridge,  
(4) Perches; 8' Span**

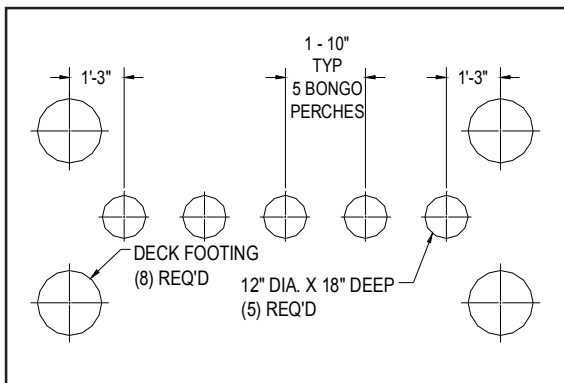
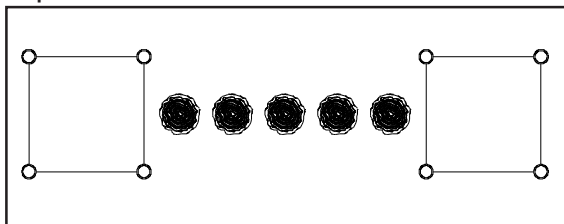




Tots' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

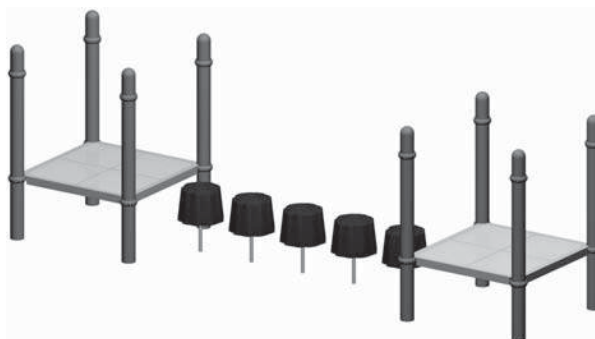
Top View



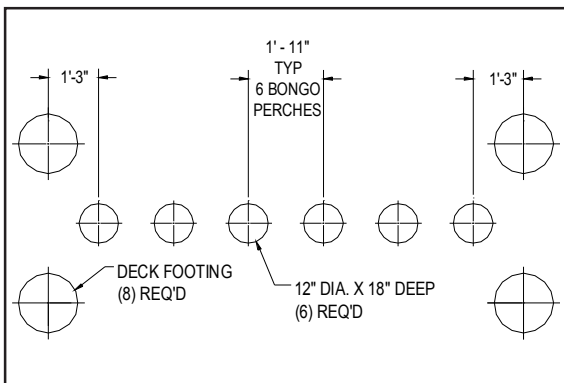
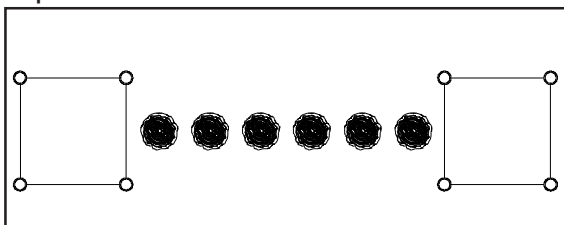
Footing Layout

**718-625-10**

**Big Timber Bongo Stump Bridge,  
(5) Perches; 10' Span**



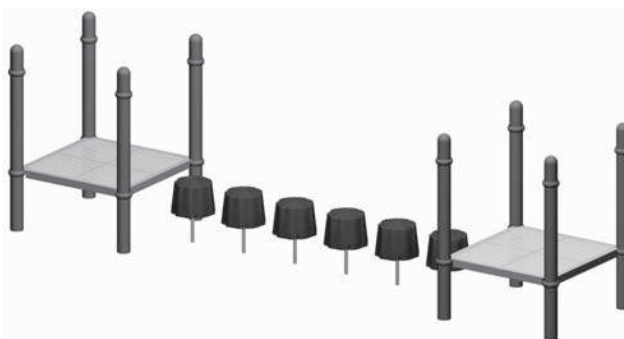
Top View



Footing Layout

**718-625-12**

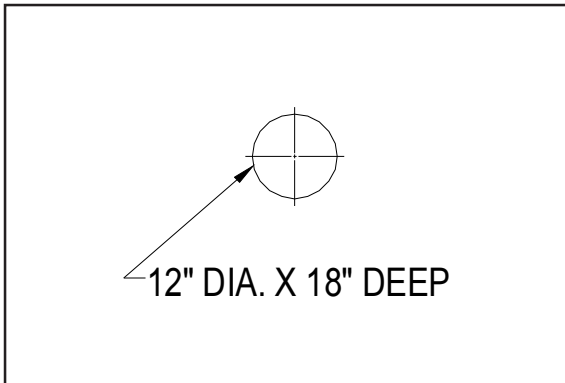
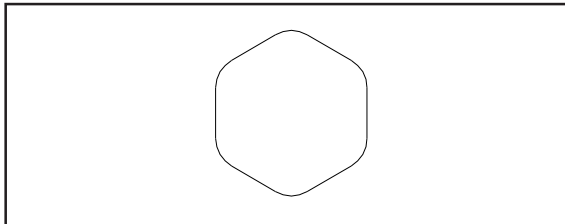
**Big Timber Bongo Stump Bridge,  
(6) Perches; 12' Span**


**Bongo Perch & Bongo Bridges**
**718-625-1, 718-625-8, 718-625-10, 718-625-12, 718-772-1, 718-772-8,  
718-772-10, 718-772-12**

Tots' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Top View



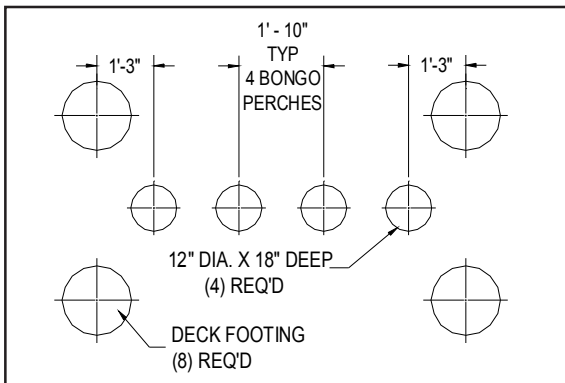
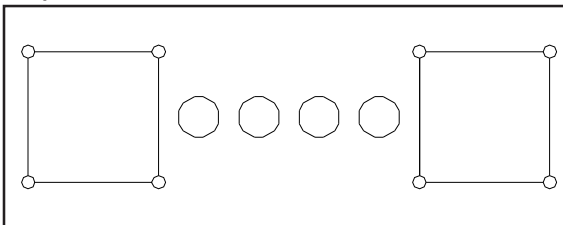
Footing Layout

**718-772-1**

**Bongo Perch**



Top View



Footing Layout

**718-772-8**

**Bongo Bridge, (4) Perches;  
8' Span**

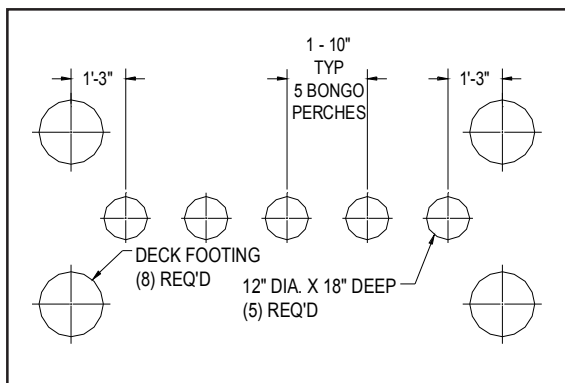
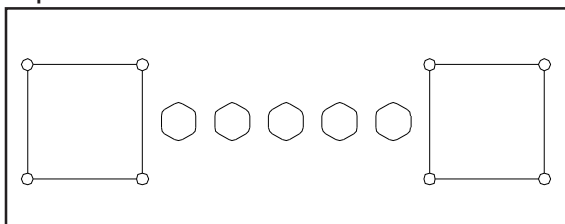




Tots' Choice®

# Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

Top View



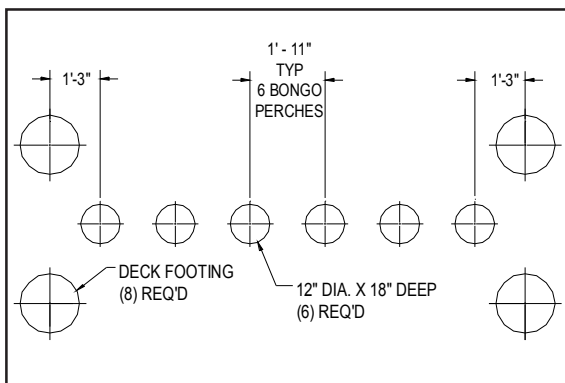
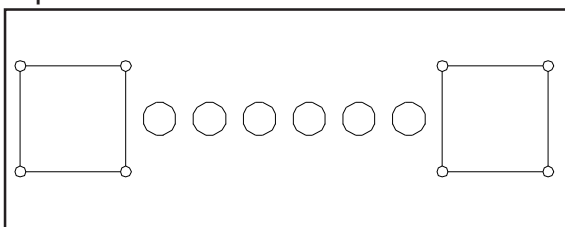
Footing Layout

**718-772-10**

**Bongo Bridge, (5) Perches;  
10' Span**


**Bongo Perch & Bongo Bridges**

Top View



Footing Layout

**718-772-12**

**Bongo Bridge, (6) Perches;  
12' Span**


**718-625-1, 718-625-8, 718-625-10, 718-625-12, 718-772-1, 718-772-8,  
718-772-10, 718-772-12**

Tots' Choice®

## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

### INSTALLATION NOTES

1. Bongo Perches may enter/exit Decks 2'-0" or lower only.
2. Bongo Perch's top surface may be set no greater than **24"** from finished grade.
3. If installing as Bridge between Decks, Bongo Perches should be installed in straight line with flat side facing flat side, as shown in *Top Views* and *Footing Layouts*, though Bongo Perches may still vary. Freestanding configurations may zig-zag, circle, diverge, etc.
4. If installing as Stair or Bridge between Decks, Bongo Perches adjacent to Deck(s) must be installed so that top surface is level with or maximum **6"** below Deck height.
5. Footings might require additional excavation or Bongo Perch Posts might require cutting.
6. Do not allow more than **6"** vertical difference in adjacent Bongo Perch heights.
7. For configurations not in a straight line, distance between Bongo Perches must be **7" to 9"** edge-to-edge (or **22" to 24"** center-to-center.)
8. If installing as Bridge between 2'-0" Decks intended for 2 to 5 year olds, Deck Enclosures Model # 718-813-5 must be installed on each Deck. See separate *Installation Guide*.

**IMPORTANT NOTE:** Big Timber Stump installation is identical to Bongo Pod. If you have a Stump component, follow these instructions substituting **ONLY** the Stump for the Pod.

#### **STEP 1** INSTALL DECK(S) AND ENCLOSURE(S), IF APPLICABLE

If applicable, install Deck system(s) and Enclosure(s) per separate instructions.

#### **STEP 2** DIG FOOTINGS

Dig footings per *Footing Layouts* or other configuration. Refer to ***Footing Details*** installation located behind *Installations 101* in Installation Manual.

**Note:** Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and are braced in position level and plumb.





Tots' Choice®

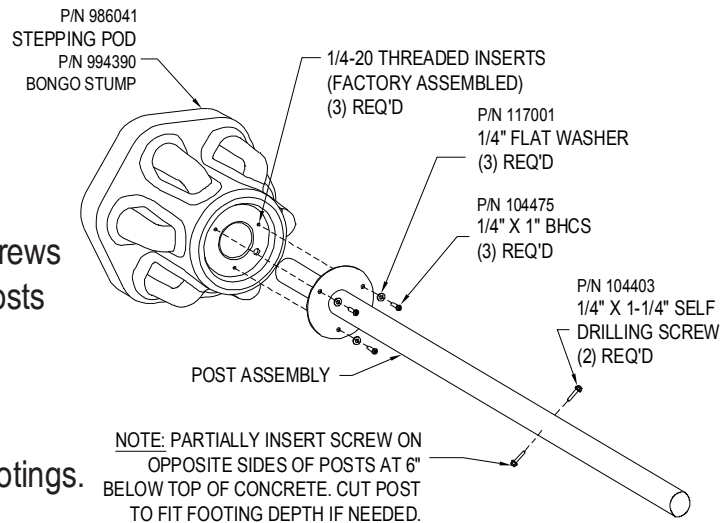
## Bongo Perch, Big Timber® Bongo Stump Perch, Bongo Bridges and Big Timber® Bongo Stump Bridges

### STEP 3 BOLT PODS TO POSTS & LOCATE

Assemble Bongo Perches by bolting Posts to Pods or Stumps as shown.

Determine proposed height of each Assembly and find finished grade and subgrade on each. Install self-drilling screws as noted in illustration to help anchor Posts in footings.

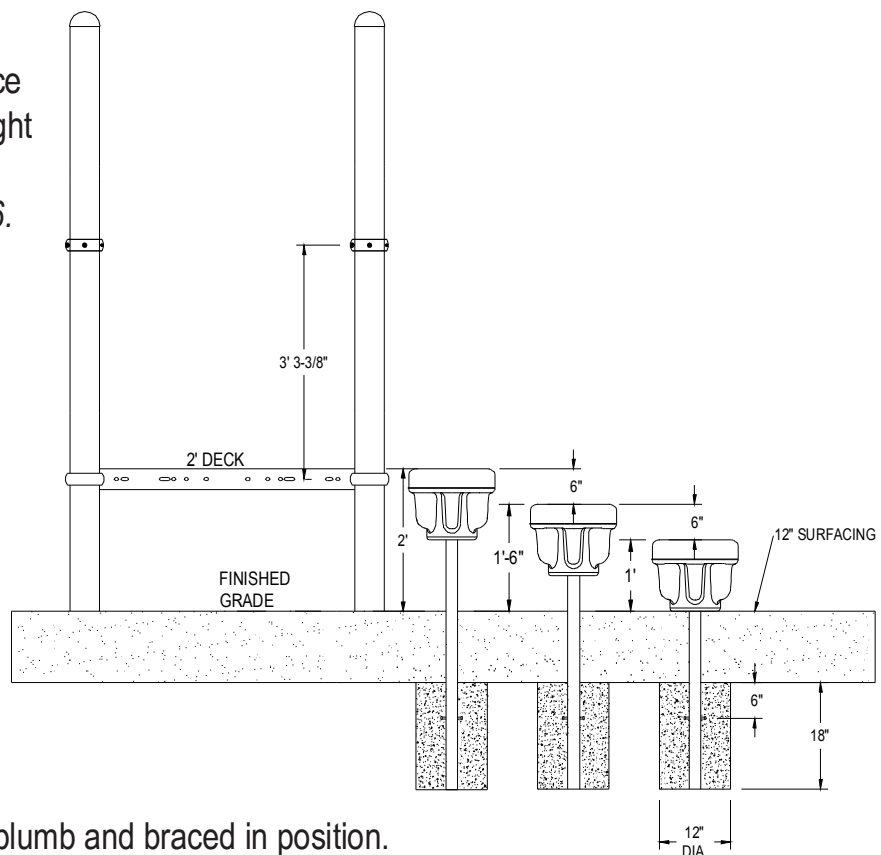
If necessary, cut Posts to fit in footings. Alternately, installers may dig deeper footings.



NOTE: PARTIALLY INSERT SCREW ON OPPOSITE SIDES OF POSTS AT 6\"/>

### STEP 4 BRACE PERCHES IN FOOTINGS

Set Bongo Perch Assemblies into footings and center. Brace each in footing at desired height and orientation. Refer to **Installation Notes** on Page 6.



### FINAL STEP

Verify components are level, plumb and braced in position. Prepare to pour concrete. Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.



# Installation Guide

September 27, 2007

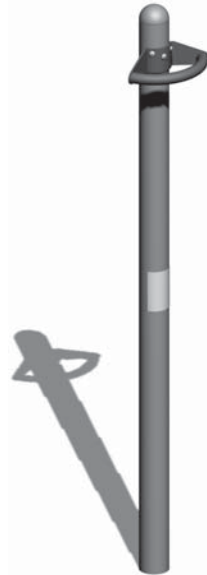
Rev. B

## Tots' Choice® Crunch Station

Deck system or Post not included in this assembly.

**718-782**

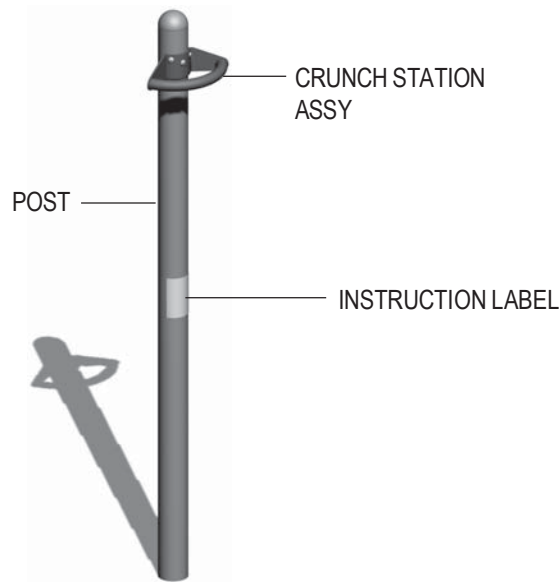
**Crunch Station**



*Note: Top View and Footing Layout not shown. Model mounts vertically to installed Deck Post.*

Crunch Station

718-782

**Tots' Choice®  
Crunch Station****PARTS IDENTIFICATION****ORDER OF ASSEMBLY (RECOMMENDED)**

1. Deck system or Post (separate assemblies)
2. Crunch Station to Post
3. Instruction Label to Post
4. Final Assembly

**TOOLS AND EQUIPMENT (REQUIRED)**

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Tape measure and level
2. Open end wrench set; allen & 6 lobe wrenches; socket set; screwdrivers
3. Drill motor; bits; taps; extension cords; power supply
4. Adult installer



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Tots' Choice®  
**Crunch Station**

September 27, 2007

Rev. B

### STEP 1

Read **Safety Brochure 100, Important Notes** and other supplementary materials. Unpack, count and become familiar with system components and hardware.

### STEP 2

Install Deck system or Post in Footings per separate instructions. Level, plumb and brace in position.

**Note: Do not pour concrete for Footings until all components in system have been installed per instructions, leveled, plumbed and braced in position.**

### STEP 3

Place Crunch Station assembly against Post as shown in illustration on Page 1. Orientate assembly in desired direction. Measure and hold Crunch Station against Post so that rung is set **50" to 80"** from Finished Grade.

### STEP 4

Attach Crunch Station assembly to Post and secure using three (3) **1/4" x 1-1/4" Tek screws**.

### STEP 5

Remove dust, oil or grime from Post surface and verify that it is dry. Apply Instruction Label to Post plumb and level (below Crunch Station), using firm pressure over entire label to ensure proper adhesion with no wrinkles, bubbles or tears.

### FINAL STEP

Proceed with **Final Assembly**.

Crunch Station

718-782



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Installation Guide

July 18, 2006

Rev. A

Tots' Choice®  
**Bell, Post Mount**

**718-796-P1**

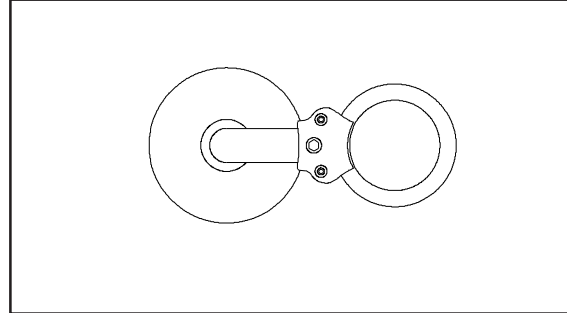
**Bell, Post Mount**

*Post not included in assembly*

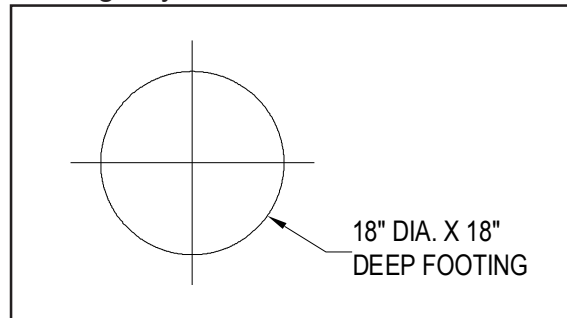


*Post not included in this assembly*

Top View



Footing Layout



**Bell, Post Mount**

**718-796-P1**



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Installation Guide

July 18, 2006

Tots' Choice®  
**Bell, Post Mount**

Rev. A

Bell, Post Mount

## **STEP 1** PREPARE FOR INSTALLATION

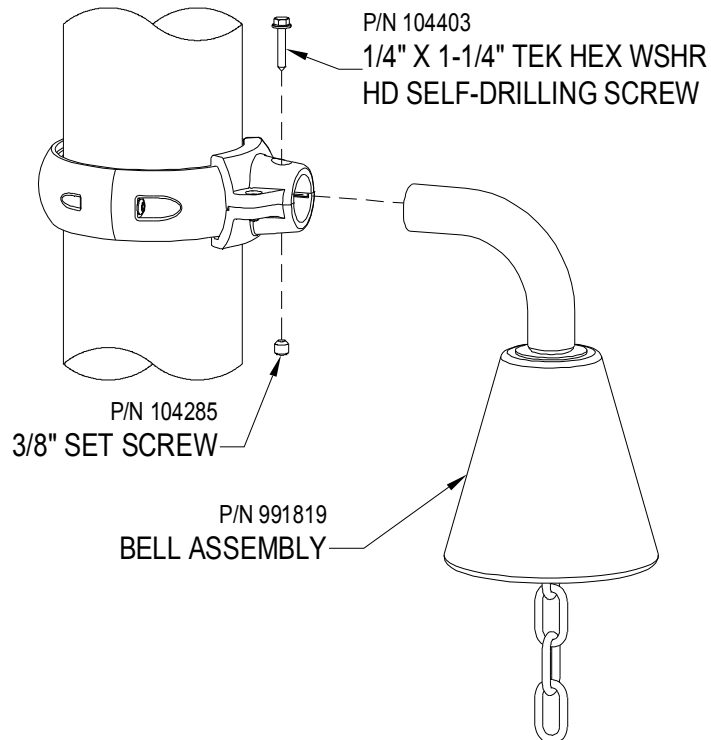
Read **Safety Brochure 100, Important Notes**, these instructions, and other materials. Unpack, count and become familiar with system components and hardware.

## **STEP 2** ATTACH CLAMP RING AND BAR SOCKET TO POST

Refer to **Versalok Fastening System** installation guide located behind *Installations 101* in your Installation Manual.

## **STEP 3** AFFIX BELL TO BAR SOCKET

Attach Bell Assembly to Bar Socket as shown.



## **FINAL STEP**

Proceed with **Final Assembly** instructions.

718-796-P1



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Installation Guide

Tots' Choice® - Mira-Therm II

Standard **Steps** and ADA **Stairs Between Decks** - 1', 1'-6" & 2' Rise

June 20, 2012

Rev. A

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

## Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-810-9	ADA Stair Between Decks, 1' Rise	2
718-959-9	ADA Stair Between Decks, 2' Rise	2
718-990-9	Steps Between Decks, 2' Rise (Standard)	3
718-993-9	ADA Stair Between Decks, 1'-6" Rise	3

*NOTE: Deck systems are NOT included in these assemblies.*

***Please refer to Construction Drawings for the model particular to your system.***

## TOOLS AND EQUIPMENT REQUIRED

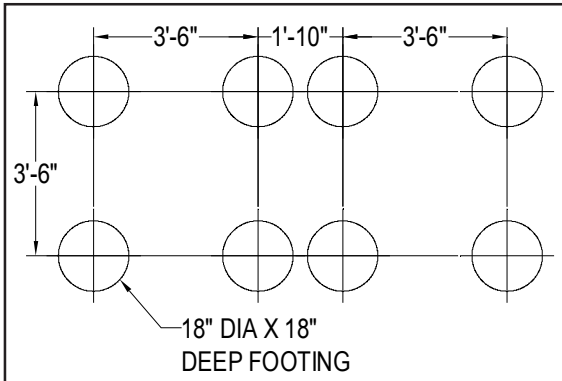
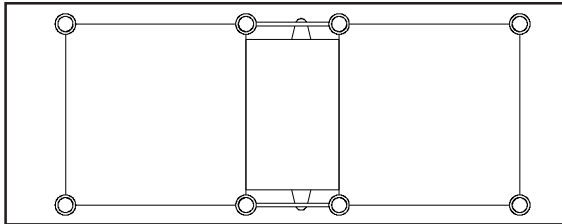
*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Tape measure and level
2. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
3. Drill, bits, extension cords, power supply
4. Step ladder
5. Adult installers - 2 minimum

Tots' Choice® - Mira-Therm II

# Standard Steps and ADA Stairs Between Decks

Top View



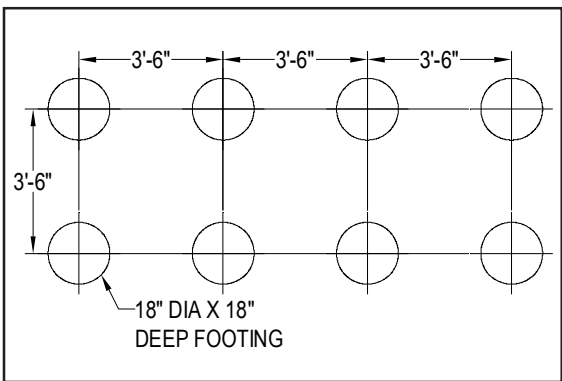
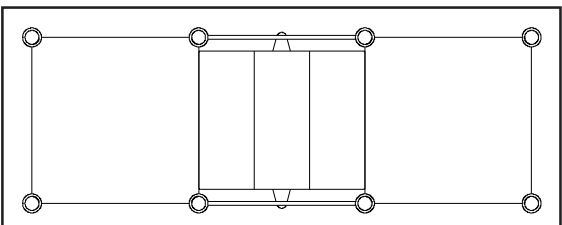
Footing Layout

718-810-9

ADA Stair Between Decks, 1' Rise



Top View



Footing Layout

718-959-9

ADA Stair Between Decks, 2' Rise





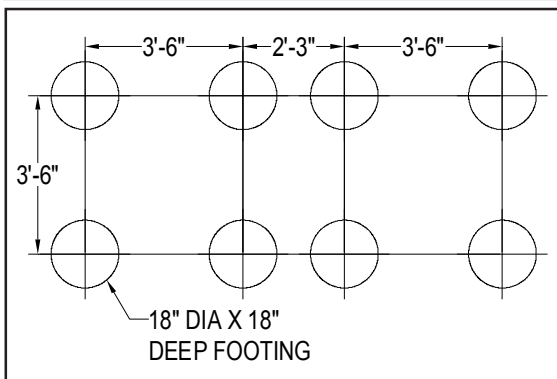
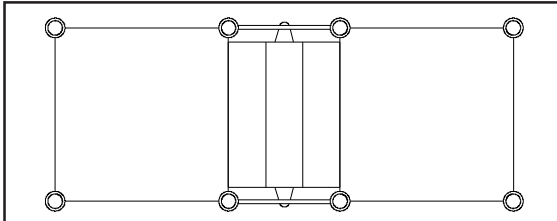


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Tots' Choice® - Mira-Therm II

## Standard Steps and ADA Stairs Between Decks

Top View



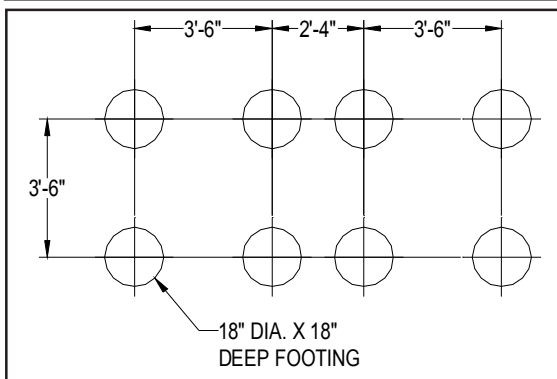
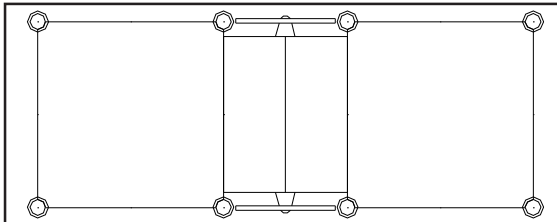
Footing Layout

**718-990-9**

**Steps Between Decks, 2' Rise (Standard)**



Top View



Footing Layout

**718-993-9**

**ADA Stair Between Decks, 1'-6" Rise**



Tots' Choice® - Mira-Therm II

Standard **Steps** and ADA **Stairs Between Decks****STEP 1** PREPARE FOR INSTALLATION

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

**STEP 2** INSTALL DECK PER SEPARATE INSTRUCTIONS

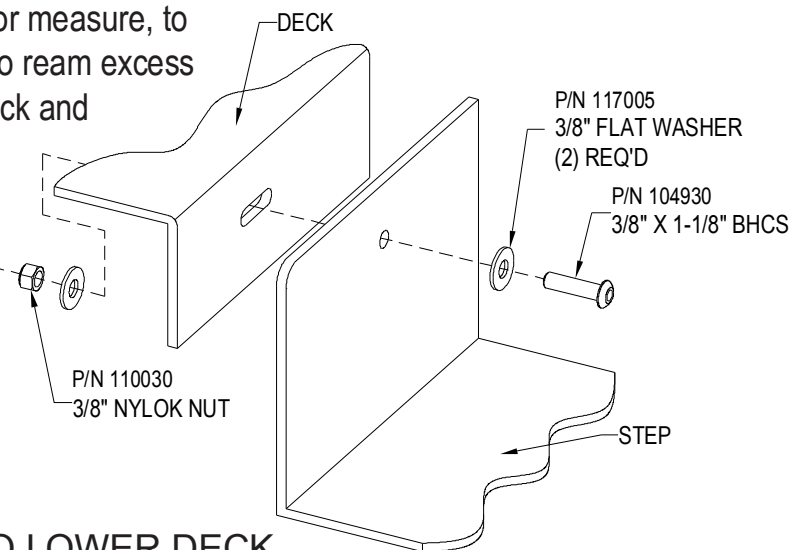
Install Deck systems per separate instructions. Plumb, level and brace in position.

**Note: Do not pour concrete for footings, or permanently secure Clamps to Posts with self-drilling screws, until all components in system have been installed per instructions and braced in position level and plumb.**

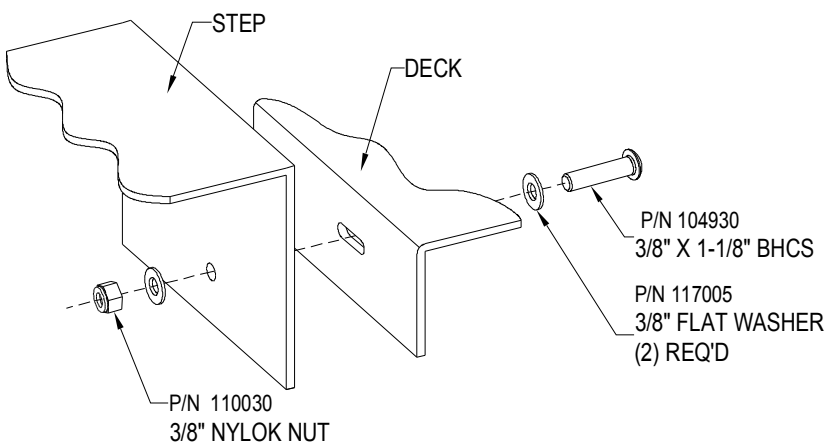
**STEP 3** SECURE STAIR TO UPPER DECK

Position Stair against upper Deck, or measure, to locate mating bolt holes. Use drill to ream excess coating from only those holes in Deck and Stair. Repeat process for lower end of Stair and lower Deck.

Replace Stair against upper Deck and secure as shown.

**STEP 4** SECURE STAIR TO LOWER DECK

Secure Stair Assembly to lower Deck.



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Standard **Steps** and ADA **Stairs Between Decks****STEP 5** ASSEMBLE CLAMPS RINGS TO POSTS AND BAR  
SOCKETS TO CLAMPS

Refer to **Versalok Fastening System** installation. Loosely affix a Bar Socket (with 1-1/16" diameter hole) to each set of Clamp Ring halves.

ON UPPER DECK POSTS: Loosely assemble Clamp Ring halves around Posts so that bottom edge of each Clamp is **37-1/2"** from top edge of Deck-supporting Clamp.

**-AND-**

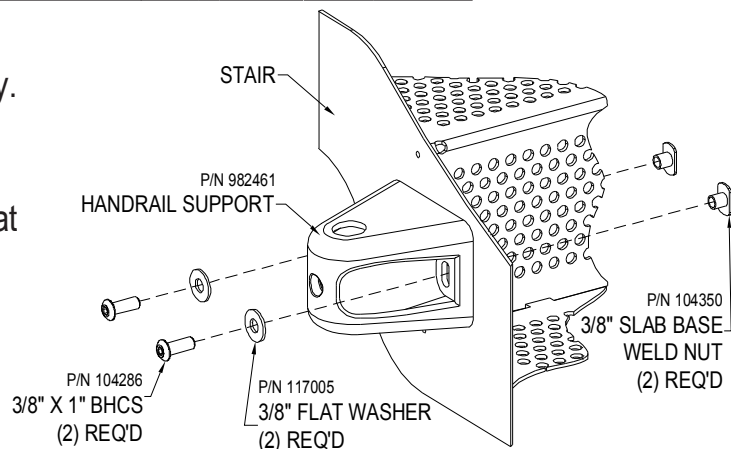
ON LOWER DECK POSTS, STAIR SIDE: Loosely assemble Clamp Ring halves around Posts so that bottom edge of each Clamp is **49-1/2"** from top edge of Deck-supporting Clamp.

Tighten Ring but do not permanently secure to Posts with self-drilling screws. Orient Bar Sockets toward center of Deck face.

**STEP 6** BOLT HANDRAILS SUPPORTS TO STAIR ASSY

Use drill to ream excess coating from bolting slots in sides of Stair Assembly.

Place Handrail ends in Bar Sockets on Clamps, but do not yet secure. Seat handrail uprights in Handrail Supports to locate and mark final position of Handrail Supports against Stair.

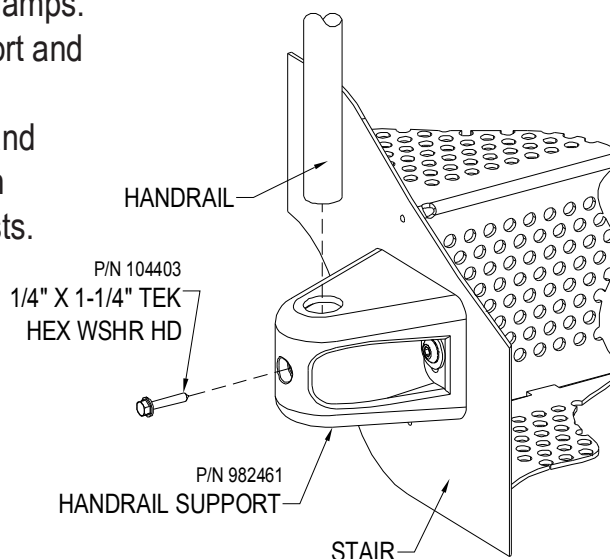


Remove Handrails from Supports and bolt Handrail Supports to Stair Assembly as shown.

Tots' Choice® - Mira-Therm II

Standard **Steps** and ADA **Stairs Between Decks****STEP 7** SECURE HANDRAILS IN HANDRAIL SUPPORTS

Replace Handrail in Bar Sockets on Clamps.  
Firmly seat Handrail in Handrail Support and secure as shown. Repeat for second Handrail. Plumb and level Handrails and secure in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts. Refer to **Versalok Fastening System** installation.

**FINAL STEP**

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.



# Installation Guide

May 18, 2010

Rev. E

Tots' Choice®

## Deck Enclosures

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-813-1	One-Sided Deck Enclosure	2
718-813-5	Deck Enclosure	2

**NOTE:** *Deck Systems, Posts and Overhead Climber are NOT included in these assemblies. Please refer to Construction Drawings for the model particular to your system.*

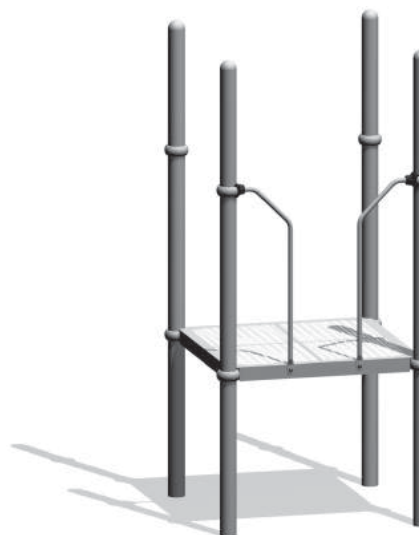
### 718-813-1

#### One-Sided Deck Enclosure



### 718-813-5

#### Deck Enclosure



*Top View and Footing Layout not shown. These components mount vertically on Deck systems.*

### TOOLS AND EQUIPMENT REQUIRED

1. Tape measure and level
2. Open end wrench set, Allen and 6-lobe wrenches, socket set, screwdrivers
3. Step ladder
4. Drill, bits, extension cord(s), power supply
5. Adult installers - 2 minimum

Tots' Choice®

## Deck Enclosures

### **STEP 1** INSTALL DECK PER SEPARATE INSTRUCTIONS

Install Deck system per separate instructions. Plumb, level, and brace in position.

### **STEP 2** ATTACH CLAMP RINGS TO POSTS

Refer to *Versalok Fastening System* installation located behind *Installations 101* in Installation Manual.

Loosely affix a Bar Socket with 1-1/16" diameter hole (1-5/16" diameter hole for One-Sided Enclosure) to each set of Clamp Ring halves. Loosely attach Clamp Rings around Posts so that bottom edge of each is **37-1/2"** from top edge of Deck-supporting Clamp. It is acceptable to approximate position of Clamps until Deck Enclosure is completely installed.

### **STEP 3** DRILL EXCESS COATING FROM DECK BOLT HOLES

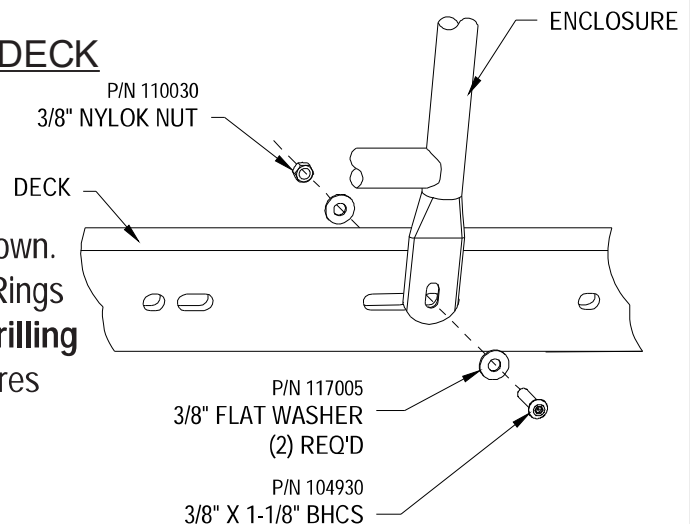
Refer to *Versalok Fastening System* installation.

Lift Deck Enclosures and tighten top rail ends in Bar Sockets, aligning holes in mashed ends of plumb uprights with bolting holes in Deck face. Use drill to ream excess coating from only those holes in Deck.

### **STEP 4** AFFIX ENCLOSURE TO DECK

Refer to *Versalok Fastening System* installation.

Attach Deck Enclosures to Deck face as shown. Tighten Bar Socket on Clamps and Clamp Rings around Posts. Install a **1/4" x 1-1/4" self-drilling screw** (P/N 104403), into the Deck Enclosures through non-threaded hole in Bar Sockets.



**FINAL STEP** Proceed with *Final Assembly* installation located behind *Installations 101* in Installation Manual.



# Installation Guide

May 18, 2010

Rev. A

Tots' Choice®  
End Ladders

End Ladders

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

## Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-815-5	End Ladder for Overhead Climber Systems	2
718-815-51	End Ladder, 1' Top Rung, for Overhead Climber Systems	2
718-815-52	End Ladder, 2' Top Rung, for Overhead Climber Systems	2
718-815-53	End Ladder, 3' Top Rung, for Overhead Climber Systems	3

*NOTE: Deck Systems, Posts and Overhead Climber are NOT included in these assemblies.*

*Please refer to Construction Drawings for the model particular to your system.*

## TOOLS AND EQUIPMENT REQUIRED

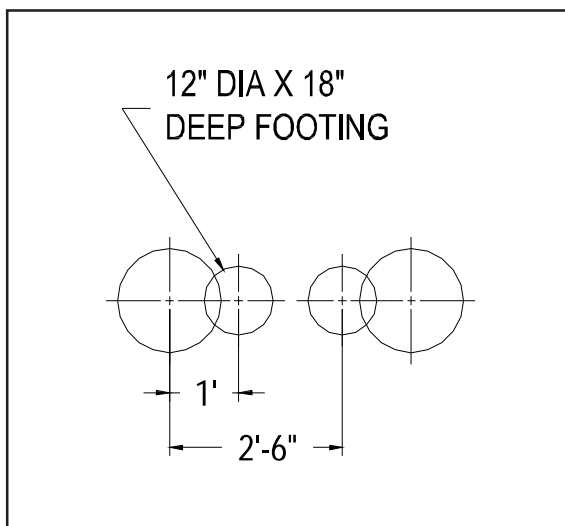
1. Tape measure and level
2. Open end wrench set, Allen and 6-lobe wrenches, socket set, screwdrivers
3. Step ladder
4. Drill, bits, extension cord(s), power supply
5. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
6. Digging equipment for footings (spade shovel, post hole digger, auger)
7. Adult installer

718-815-5, 718-815-51, 718-815-52, 718-815-53

# Tots' Choice® End Ladders

## Top View

*Top View* not shown. Refer to Overhead Climber model's *Installation Guide* or *Construction Drawings* if needed.



Footing Layout

**718-815-5**

**End Ladder** for Overhead Climber systems



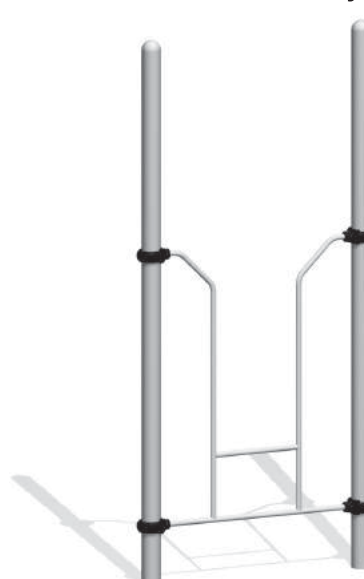
**718-815-51**

**End Ladder, 1' Top Rung** for Overhead Climber systems



**718-815-52**

**End Ladder, 2' Top Rung** for Overhead Climber systems







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Tots' Choice®  
**End Ladders**

May 18, 2010

Rev. A

**718-815-53**

**End Ladder, 3' Top Rung** for Overhead  
Climber systems



**End Ladders**

718-815-5, 718-815-51, 718-815-52, 718-815-53

## Tots' Choice® End Ladders

NOTE: USE FOLLOWING INSTRUCTIONS FOR MODEL #S 718-815-51, 718-815-52 AND 718-815-53 ONLY. MODEL # 718-815-5 INSTRUCTIONS SHOWN ON NEXT PAGE.

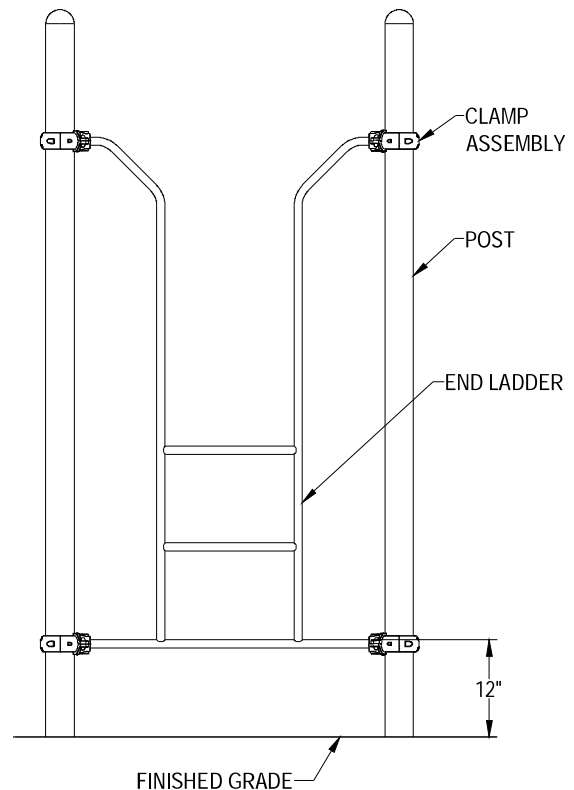
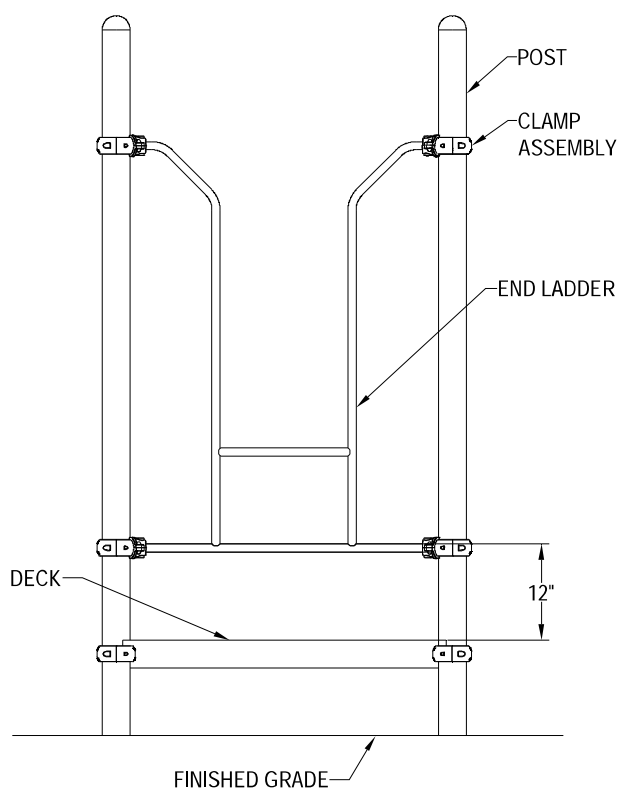
### STEP 1 ATTACH CLAMP RINGS TO POSTS; ATTACH LADDER

Refer to ***Versalok Fastening System installation***. Loosely affix a Bar Socket (with 1-1/16" diameter hole) to each Clamp, and attach Clamps loosely to Deck Posts. It is acceptable to approximate position of Clamps until End Ladder is completely installed.

Insert ends of End Ladder's top rail into Bar Sockets. Plumb and level Posts and End Ladder assembly. Tighten top rail ends in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts.

*Note: When using End Ladder on a Deck, the top of the bottom rung must always be set at 12" above Deck surface.*

*Note: Miracle recommends that height of top rung on End Ladder be equal to height of Deck or End Ladder on opposite end of Overhead Climber assembly.*



## STEP 1 MODEL # 718-815-5 ONLY: DIG FOOTINGS

Dig footings per *Footing Layout*, Construction Drawings, and **Footing Details** installation located behind *Installations 101* in Installation Manual.

**Note:** Do not pour concrete for footings or permanently secure Clamps to Posts with self-drilling screws until components illustrated in this installation guide have been installed per instructions and braced in position level and plumb.

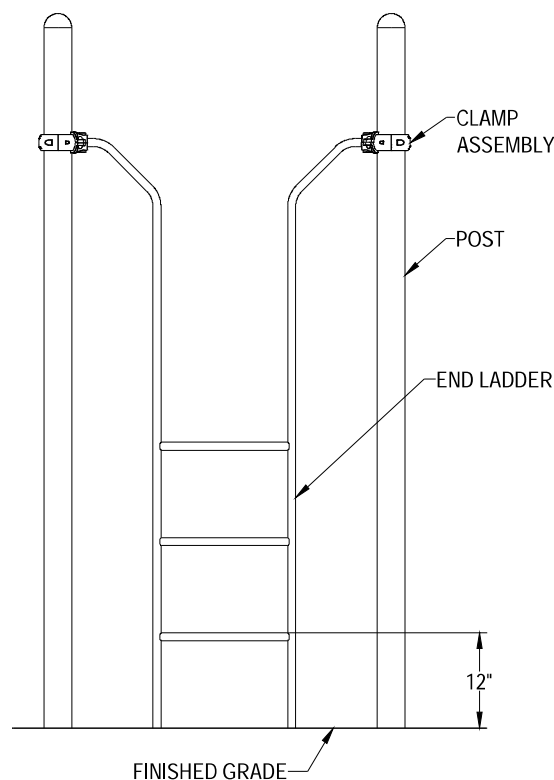
## STEP 2 MODEL # 718-815-5 ONLY: SET CLIMBER INTO FOOTINGS; ATTACH LADDER TO POSTS

Place Legs of End Ladder into footings.

Verify correct height from finished grade to top of lowest exposed rung (12" maximum).

**Note:** It is acceptable and sometimes necessary to bury one or more rungs on bottom of End Ladder to achieve desired height of top rung.

**Note:** Miracle recommends that height of top rung on End Ladder be equal to height of Deck or End Ladder on opposite end of Overhead Climber assembly.



Refer to **Versalok Fastening System** installation. Loosely affix a Bar Socket (with 1-1/16" diameter hole) to each Clamp, and attach Clamps loosely to Deck Posts.

Insert ends of End Ladder's top rail into Bar Sockets. Plumb and level Posts and End Ladder assembly. Tighten top rail ends in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts.



# Installation Guide

August 19, 2010

Rev. F

Tots' Choice®

**Chinning Bar** with Steel Post, Aluminum Post or Bar Only

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

## Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-843	Chinning Bar w/Steel Post	2
718-843-2	Chinning Bar w/Aluminum Post	2
718-843-5	Chinning Bar, Bar Only	2
718-843-560	Chinning Bar, Bar Only - 60"	2

*NOTE: Deck Systems NOT included in these assemblies.*

## TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

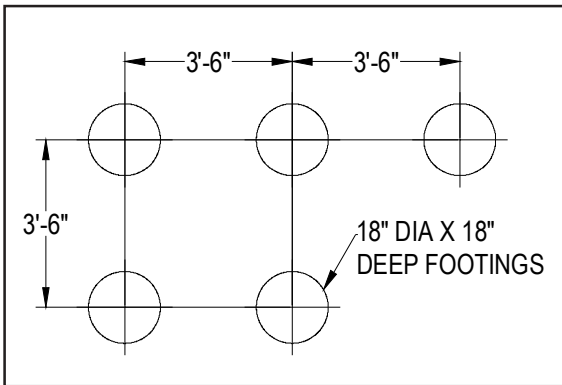
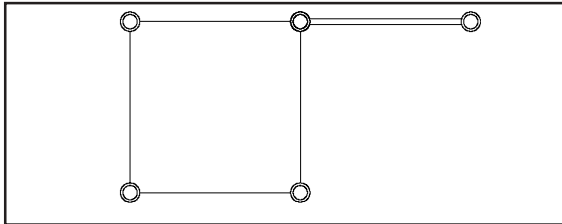
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, concrete blocks, bricks, jack stands, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Step ladder
7. Drill, bits, extension cords, power supply
8. Adult installer

Chinning Bar

718-843, 718-843-2, 718-843-5, 718-843-560

# Tots' Choice® Chinning Bar

Top View

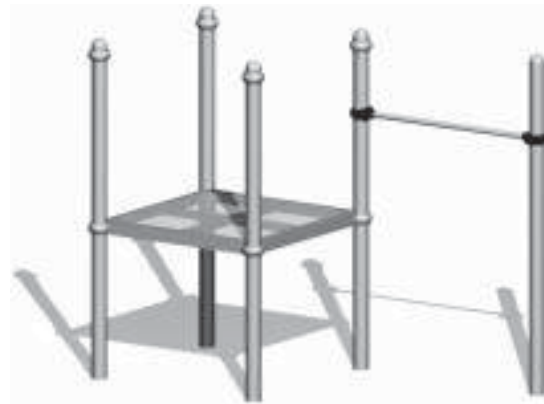


Footing Layout

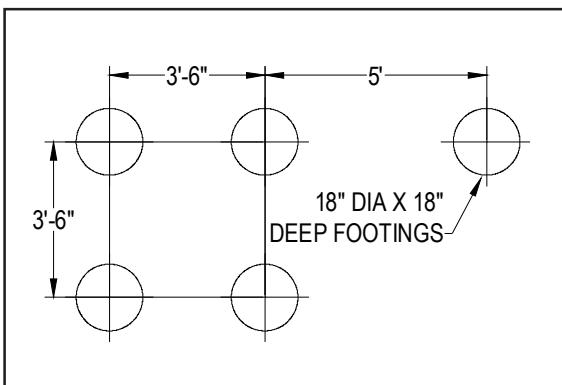
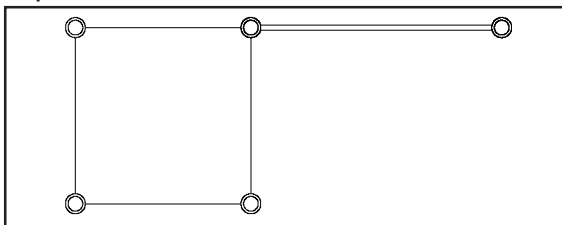
## 718-843, 718-843-2\* & 718-843-5\*

### Chinning Bar with Steel Post

\* Model # 718-843-2 Chinning Bar with Aluminum Post and Model # 718-843-5 Chinning Bar not shown. Appearances and installations are identical.



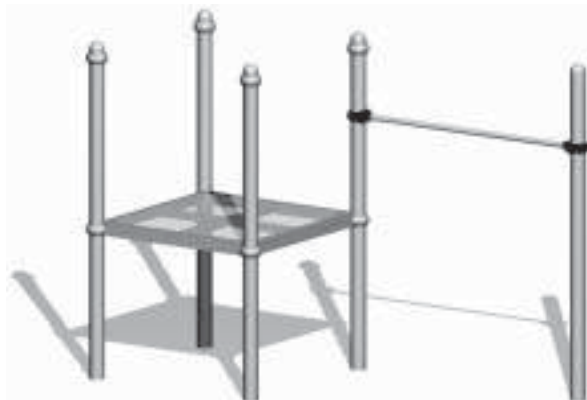
Top View



Footing Layout

## 718-843-560

### Chinning Bar - 60"





Tots' Choice®

## Chinning Bar

August 19, 2010

Rev. F

### **STEP 1** INSTALL DECK OR POSTS PER SEPARATE INSTRUCTIONS

Install Deck system(s) or Posts per separate instructions. Plumb, level and brace in position.

**Note:** *Do not pour concrete for footings or permanently secure Clamps to Posts with self-drilling screws until components illustrated in this installation guide have been installed and braced in position level and plumb.*

### **STEP 2** PLACE POSTS INTO FOOTINGS, IF APPLICABLE

Place Posts into footings. Ensure plumb Posts are level at **5'-10"** from finished grade to Post pipe end (before rounded end cap), assuming 12" of protective surfacing will be installed.

### **STEP 3** ATTACH CHINNING BAR TO POSTS

Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.

Assemble Chinning Bar ends in Bar Sockets, setting Chinning Bar at desired height -- **5'-0"** from finished grade recommended. Fasten Bar Sockets to Clamps and Clamp Rings around Posts. Level Chinning Bar, plumb Posts and brace in position.

Secure Chinning Bar to Bar Sockets with one (1) set screw and one (1) tek screw on each end.

### **FINAL STEP**

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

Chinning Bar

718-843, 718-843-2, 718-843-5, 718-843-560



# Installation Guide

July 7, 2010

Rev. B

Tots' Choice®

## Handring Bridges

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

### Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-864-5SL	"S" Shaped Handring Bridge, Left	2
718-864-5SR	"S" Shaped Handring Bridge, Right	2

*NOTE: Deck Systems and/or Posts are NOT included in these assemblies.*

### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Tape measure and level
2. Open end wrench set, socket set, Allen and 6-lobe wrenches or bits, screwdrivers
3. Step ladder
4. Hammer
5. Drill, bits, extension cords, power supply
6. Adult installers - 2 minimum

Handring Bridges

718-864-5SL, 718-864-5SR



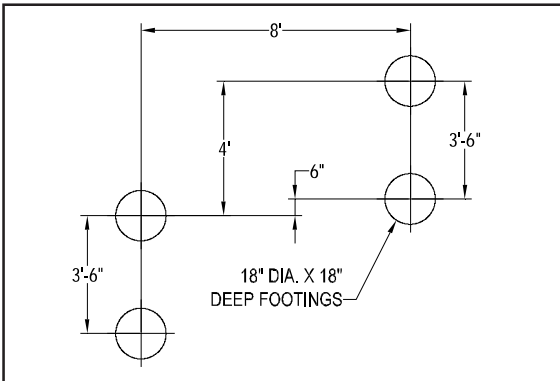
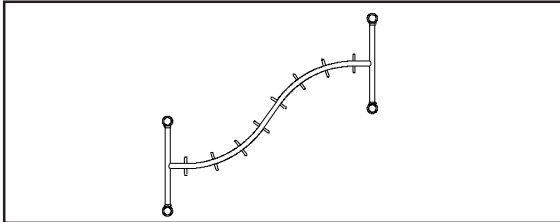
**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice®

**Handring Bridges**

Handring Bridges

Top View



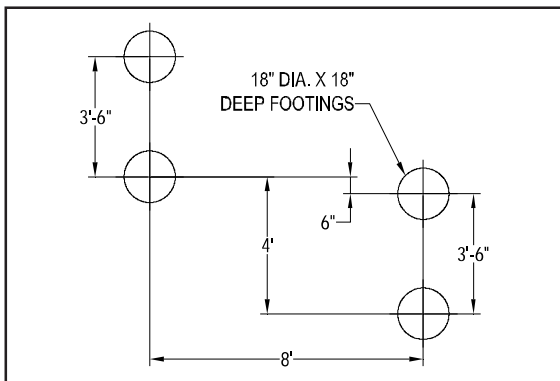
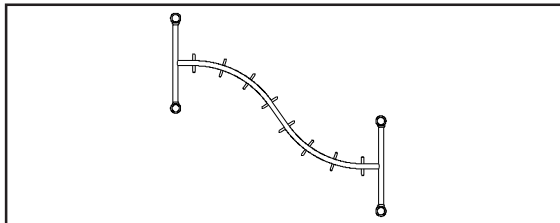
Footing Layout

**718-864-5SL**

**"S" Shaped Handring Bridge, Left**



Top View



Footing Layout

**718-864-5SR**

**"S" Shaped Handring Bridge, Right**



718-864-5SL, 718-864-5SR



## STEP 1 INSTALL DECK PER SEPARATE INSTRUCTIONS

Install Deck system and/or Posts per separate instructions. Plumb, level and brace in position.

**Note:** *Do not pour concrete for footings or permanently secure Clamps to Posts with self-drilling screws until components illustrated in this installation guide have been installed per instructions and braced in position level and plumb.*

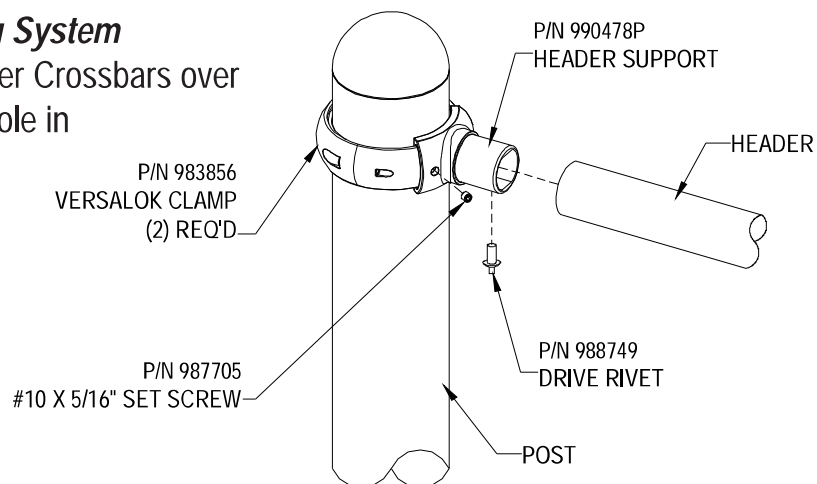
## STEP 2 ASSEMBLE CLAMPS TO POSTS

Refer to **Versalok Fastening System** installation located behind *Installations 101* in Installation Manual.

Slide Header Supports onto Clamp Rings. Loosely assemble Clamps to Posts so that bottom edge of each Clamp is **95"** above finished grade. It is acceptable to approximate final position of Clamps until Header Assembly is installed and leveled.

## STEP 3 ATTACH HEADERS TO HEADER SUPPORTS

Refer to **Versalok Fastening System** installation. Firmly seat Header Crossbars over Header Supports. Drill **1/4"** hole in Header Supports through pre-drilled holes in Crossbar ends. Firmly seat rivets and strike pin with hammer to expand. Tighten Header Supports to Clamps with set screws.



**Safety Note:** *Allow concrete footings to set for 72 hours or until fully cured before mounting Handrings to Header (per next step.)*

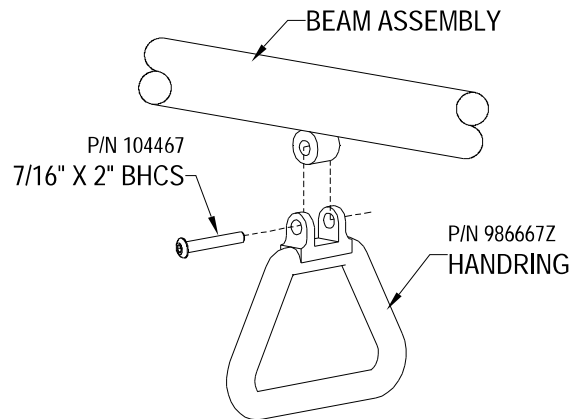
## Tots' Choice® Handring Bridges

### FINAL STEP

Proceed with ***Final Assembly*** installation located behind *Installations 101* in Installation Manual.

***Note: Make certain that concrete is fully cured before proceeding.***

Assemble each Handring to bushing sleeves on Header as shown.





# Installation Guide

May 5, 2005

Rev. D

Tots' Choice® - Mira-Therm II

**Transfer Points** for **3'**, **4'** and **5'** Decks, with **Open Handrails**

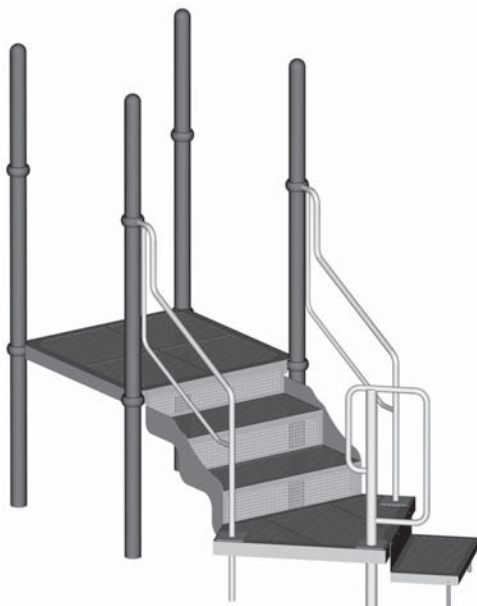
Deck system not included in these assemblies.

**718-965-359** installed **LEFT**

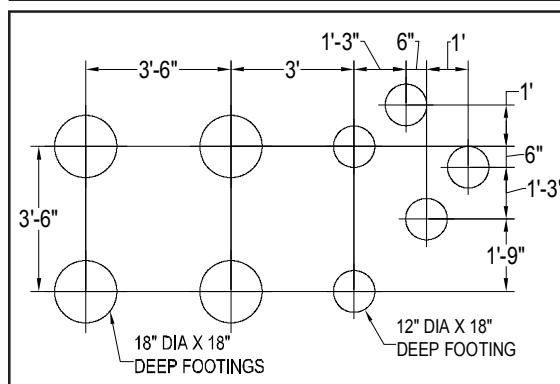
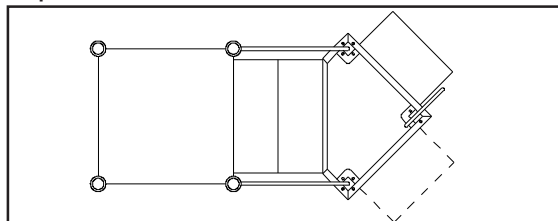
718-965-459

718-965-559

**Transfer Point with Open Handrails  
for 3' Deck**



Top View



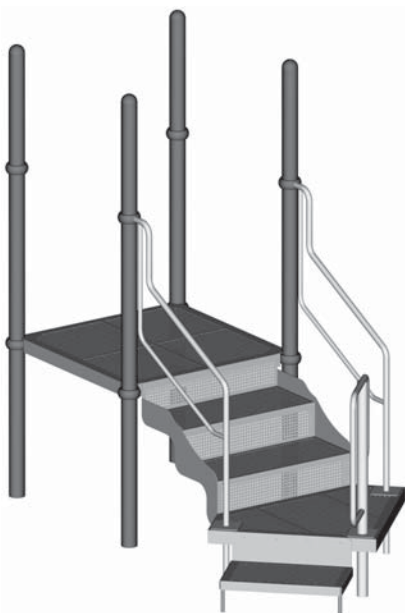
Footing Layout

**718-965-359** installed **RIGHT**

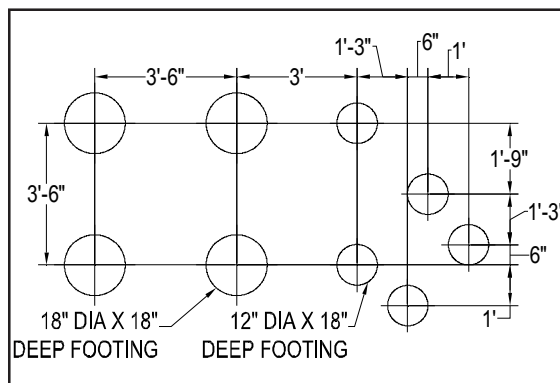
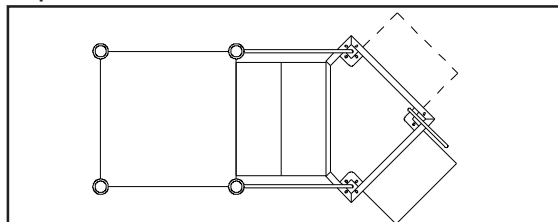
718-965-459

718-965-559

**Transfer Point with Open Handrails  
for 3' Deck**



Top View



Footing Layout

Transfer Points

718-965-359, 718-965-459, 718-965-559

Tots' Choice® - Mira-Therm II

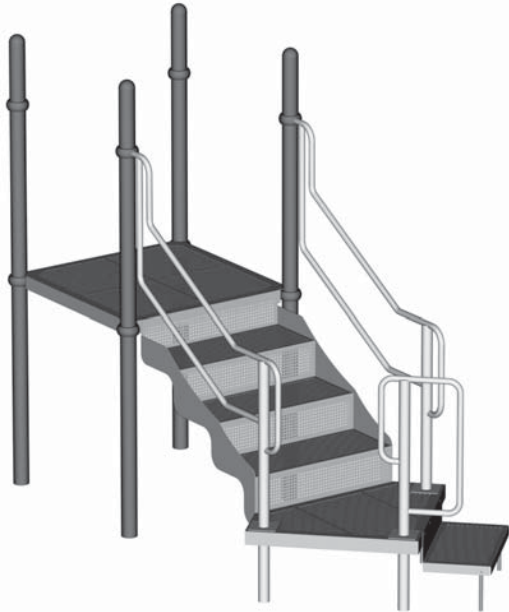
**Transfer Points** for **3'**, **4'** and **5'** Decks, with **Open** Handrails

718-965-359

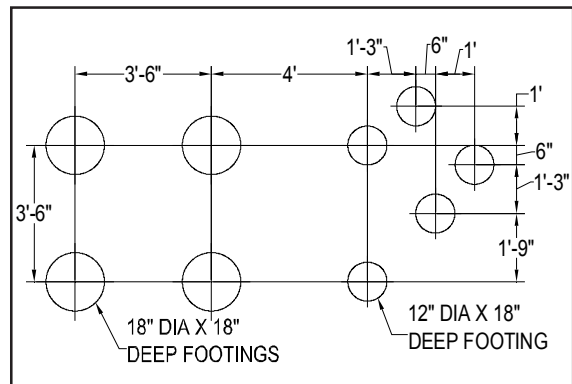
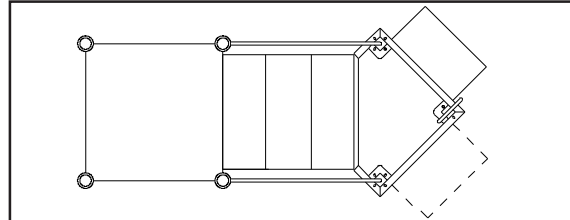
**718-965-459** installed **LEFT**

718-965-559

**Transfer Point with Open Handrails  
for 4' Deck**



Top View



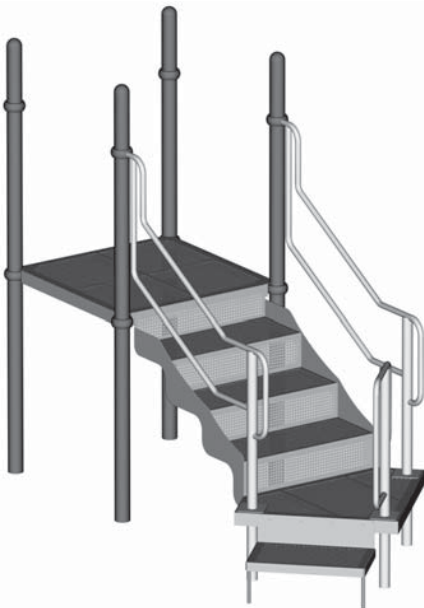
Footing Layout

718-965-359

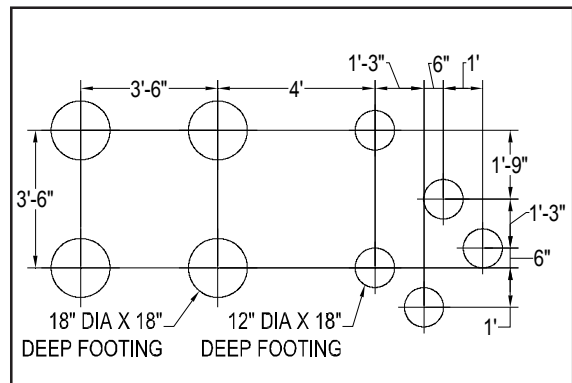
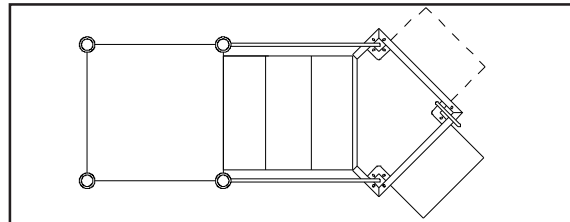
**718-965-459** installed **RIGHT**

718-965-559

**Transfer Point with Open Handrails  
for 4' Deck**



Top View



Footing Layout



Tots' Choice® - Mira-Therm II  
**Transfer Points** for **3'**, **4'** and **5'** Decks, with **Open Handrails**

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718-965-359

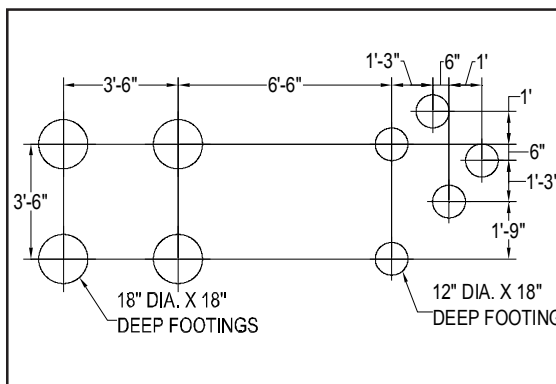
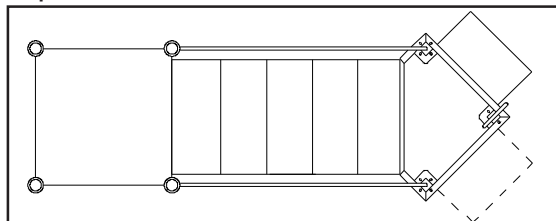
718-965-459

**718-965-559** installed **LEFT**

**Transfer Point with Open Handrails  
 for 5' Deck**



Top View



Footing Layout

718-965-359

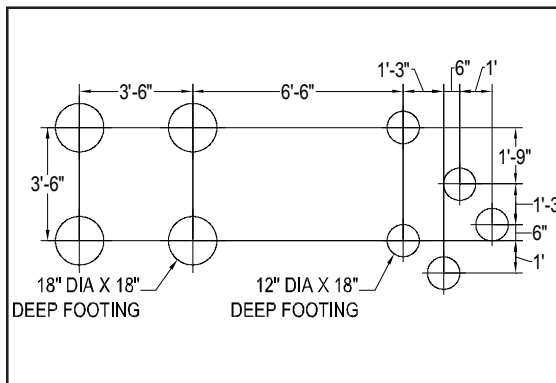
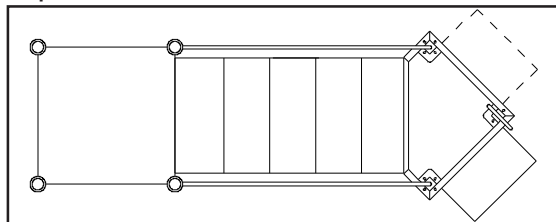
718-965-459

**718-965-559** installed **RIGHT**

**Transfer Point with Open Handrails  
 for 5' Deck**



Top View

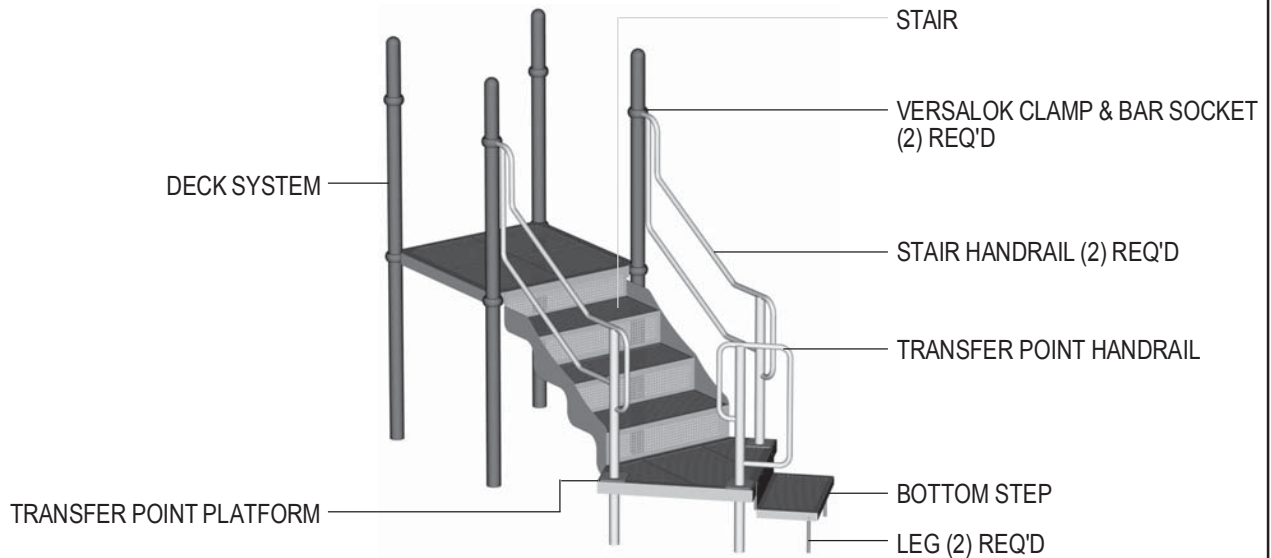


Footing Layout

Transfer Points

718-965-359, 718-965-459, 718-965-559

Tots' Choice® - Mira-Therm II

**Transfer Points** for 3', 4' and 5' Decks, with **Open** Handrails**PARTS IDENTIFICATION****RECOMMENDED ASSEMBLY SEQUENCE**

1. Deck system (per separate instructions)
2. Footings
3. Clamps with Bar Sockets loosely to Posts
4. Transfer Point Handrail and Stair Handrails to Platform (and into footings)
5. Stair Handrails to Deck Posts (via Clamps)
6. Stair to Deck and to Platform
7. Legs to Bottom Step
8. Bottom Step to Platform (Legs into footings)
9. Final Assembly

**TOOLS AND EQUIPMENT REQUIRED**

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in "Installations 101"*

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, wood pieces, jack stands, sawhorses, concrete blocks, bricks, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Drill, bits, extension cords, power supply
7. Step ladder
8. Adult installers - 2 minimum



Tots' Choice® - Mira-Therm II

**Transfer Points** for 3', 4' and 5' Decks, with **Open** Handrails**STEP 1**

Read **Safety Brochure 100, Important Notes**, these instructions, and other enclosed materials. Unpack, count, and become familiar with system components and hardware.

**STEP 2**

Install Deck system per separate instructions. Plumb, level, and brace in position.

**STEP 3**

Dig footings per *Footing Layout*, Construction Drawings and **Footing Details** installation.

**Note:** Do not pour concrete for footings or permanently secure Clamps to Posts with self-drilling screws until all components in playsystem have been installed per instructions and braced in position plumb and level.

**STEP 4**

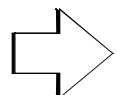
Refer to **Versalok Fastening System** installation.

Loosely affix a Bar Socket (with 1-3/8" diameter hole) to each set of Clamp Ring halves. Loosely assemble Clamp Rings around Deck Posts so that bottom edge of each Clamp is 37-1/2" from top edge of Deck-supporting Clamp.

**STEP 5**

Refer to illustrations in **Step 8, Step 9**, and **Step 11**.

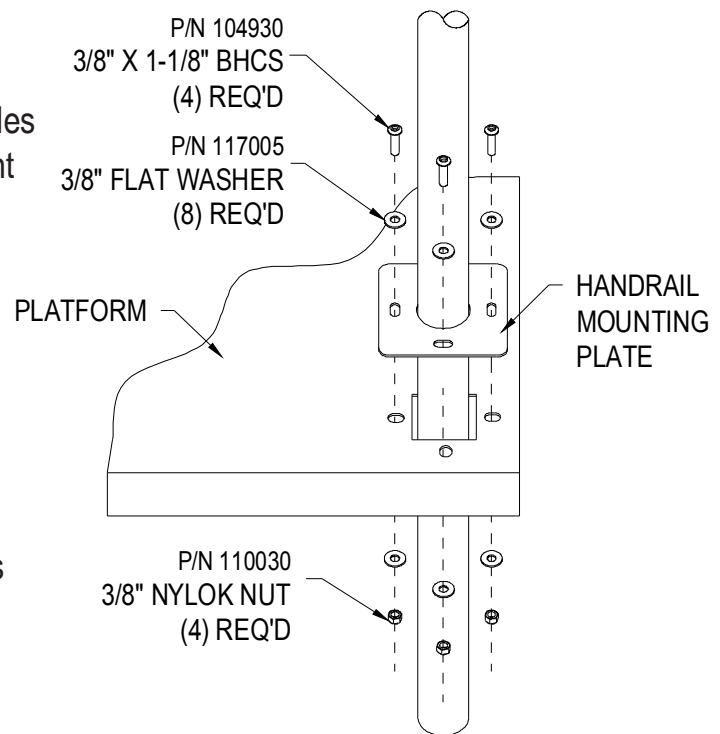
Position Stair Assembly against Deck face and Bottom Step against Transfer Point Platform (on appropriate side) to determine mating bolt holes. Use drill to ream excess PVC from only those holes in Deck, Stair, Step, and Platform.



Tots' Choice® - Mira-Therm II

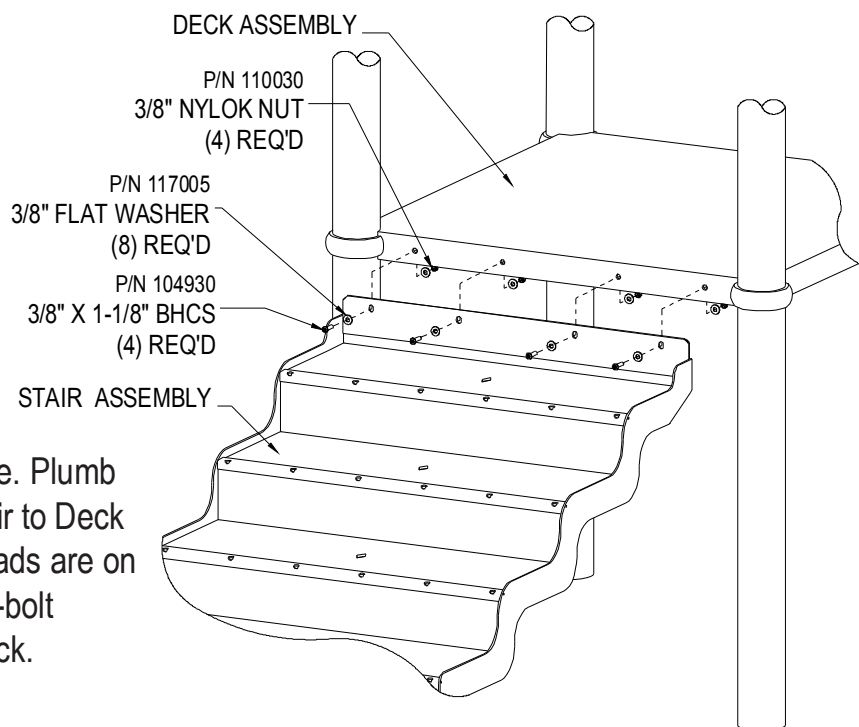
**Transfer Points** for 3', 4' and 5' Decks, with **Open** Handrails**STEP 6**

Use drill to ream excess PVC from bolt holes atop Platform corners. Insert Transfer Point Handrail through Platform until mounting plate is flush with Platform surface. Large loop of Transfer Point Handrail must be oriented with Bottom Step (refer to cover or *Top View* illustrations.) Secure Handrail to Platform as shown.

**STEP 7**

Refer to **Versalok Fastening System** installation.

Insert Stair Handrail ends into Bar Sockets. Block up Platform as needed. Ensure rails and rungs are plumb and level and tighten in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts.

**STEP 8**

Position Stair against Deck face. Plumb and level assembly. Attach Stair to Deck as shown. Ensure that bolt heads are on outside (Stair) side, with nut-to-bolt connections made beneath Deck.





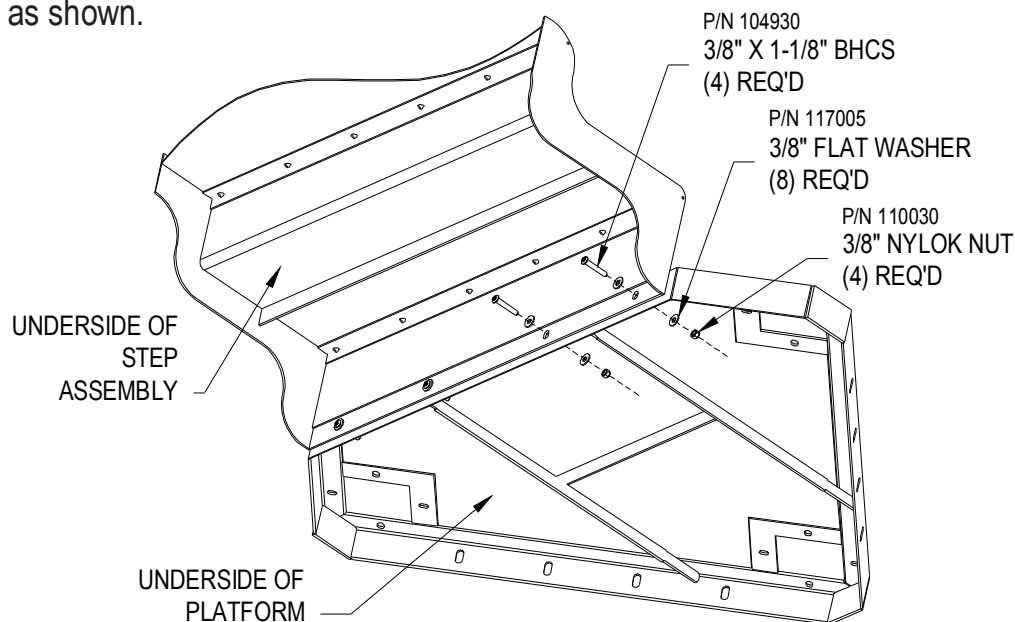
Tots' Choice® - Mira-Therm II  
**Transfer Points** for 3', 4' and 5' Decks, with Open Handrails

May 5, 2005

Rev. D

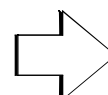
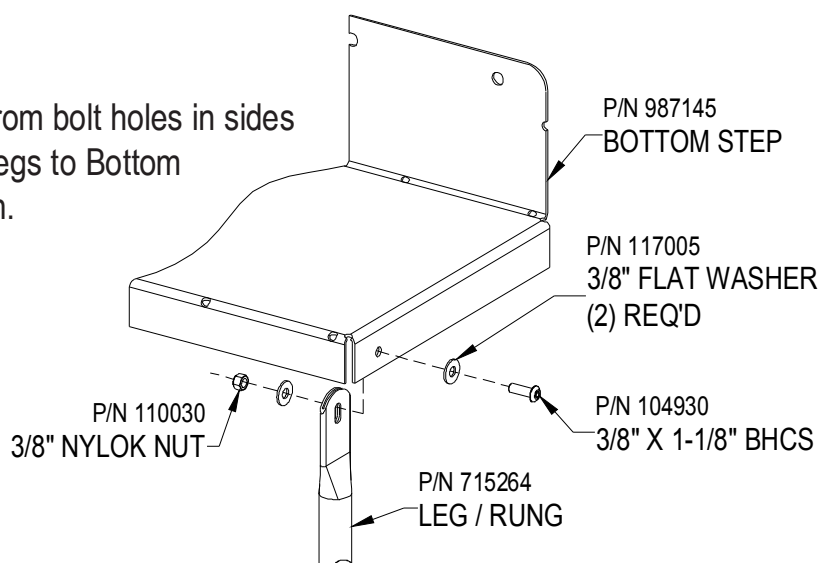
**STEP 9**

Brace Stair Assembly in position so Steps are level. Fasten Stair bottom to Transfer Point Platform as shown.



**STEP 10**

Use drill to ream excess PVC from bolt holes in sides of Bottom Step. Connect two Legs to Bottom Step, but do not yet fully tighten.



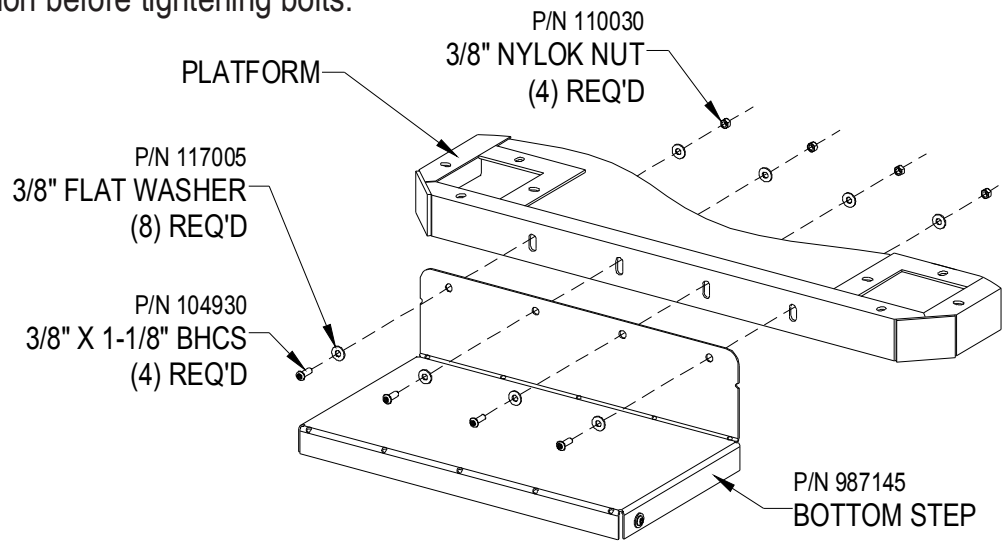
Transfer Points

718-965-359, 718-965-459, 718-965-559

Tots' Choice® - Mira-Therm II

**Transfer Points** for **3'**, **4'** and **5'** Decks, with **Open** Handrails**STEP 11**

Position Bottom Step against Platform edge, setting Legs into footings. Secure Bottom Step to Platform as shown, making certain Platform, Step and Legs are level, plumb and braced in position before tightening bolts.

**FINAL STEP**

Proceed with **Final Assembly** installation.



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# Installation Guide

October 21, 2011

Rev. E

Tots' Choice®

**Bumper Ladders** from **3' Deck, 5' Deck, and 6'-6" Deck**

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**

## Models included in this installation guide:

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u>PAGE #</u>
718-976-3	Bumper Ladder from 3' Deck	2
718-976-5	Bumper Ladder from 5' Deck	2
718-976-6	Bumper Ladder from 6'-6" Deck	3

*Note: Deck systems are NOT included in these assemblies.*

## TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (#D70052) in "Installations 101"*

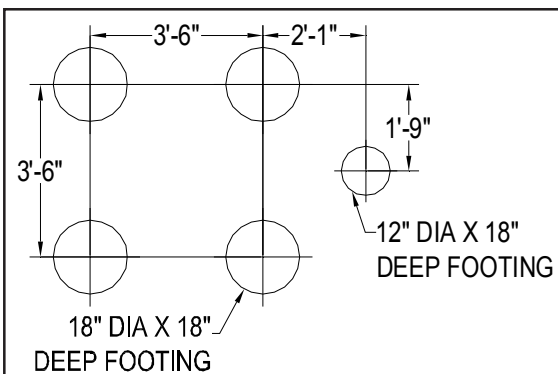
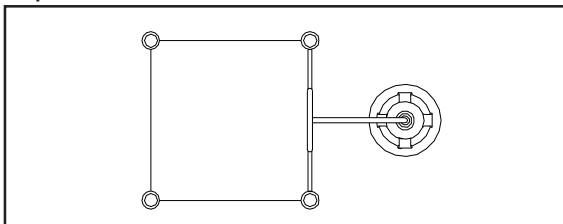
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. Bracing materials (2x4s, sawhorses, etc.)
4. Tape measure and level
5. Open end wrench set, Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. Hand saw (for assemblies mounting on Deck heights not shown)
7. Drill, extension cords, power supply, 1/2" drill bit
8. Step ladder
9. Adult installers - 2 minimum

Bumper Ladders

718-976-3, 718-976-5, 718-976-6

Tots' Choice®  
Bumper Ladders

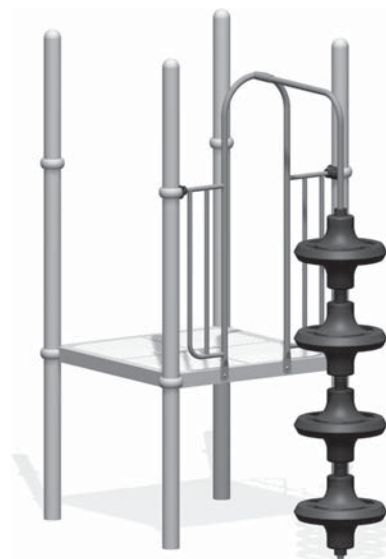
Top View



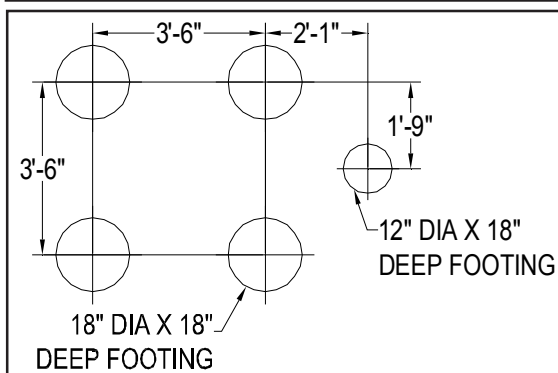
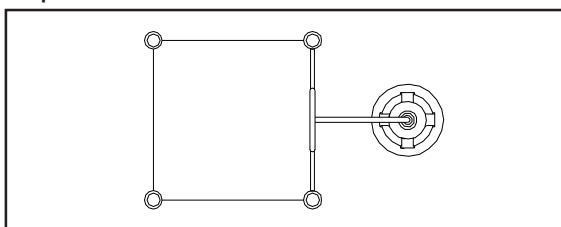
Footings Layout

**718-976-3**

**Bumper Ladder from 3' Deck**



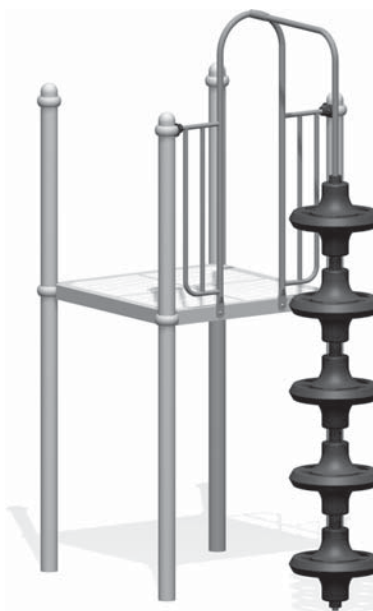
Top View



Footings Layout

**718-976-5**

**Bumper Ladder from 5' Deck**





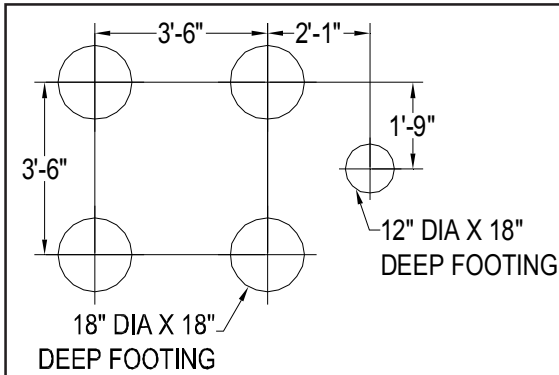
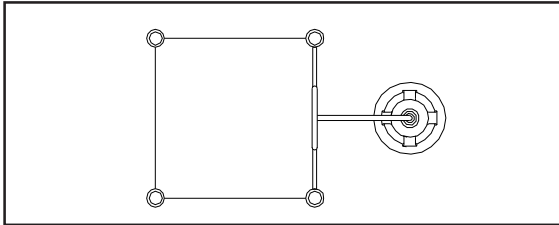
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Tots' Choice®  
**Bumper Ladders**

October 21, 2011

Rev. E

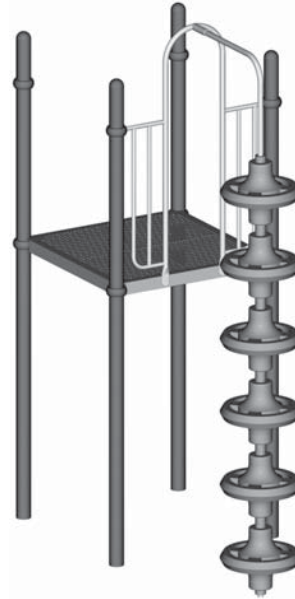
Top View



Footing Layout

**718-976-6**

**Bumper Ladder from 6'-6" Deck**



**Bumper Ladders**

**STEP 1** INSTALL DECK SYSTEM PER SEPARATE INSTRUCTIONS

Install Deck system per separate instructions. Plumb, level, and brace in position.

**Note:** Do not pour concrete for footings, or permanently affix Clamps to Posts with self-drilling screws, until all components in system have been assembled per instructions and braced in position level and plumb.

**STEP 2** DIG FOOTINGS

Dig footings per *Footing Layout*, Construction Drawings, and **Footing Details** installation.

718-976-3, 718-976-5, 718-976-6

Tots' Choice®

## Bumper Ladders

### STEP 3 DRILL EXCESS DECK COATING FROM BOLT HOLES

Position Arch Enclosure against Deck face to determine mating bolt holes. Use drill to ream excess Deck coating from only those holes in Deck.

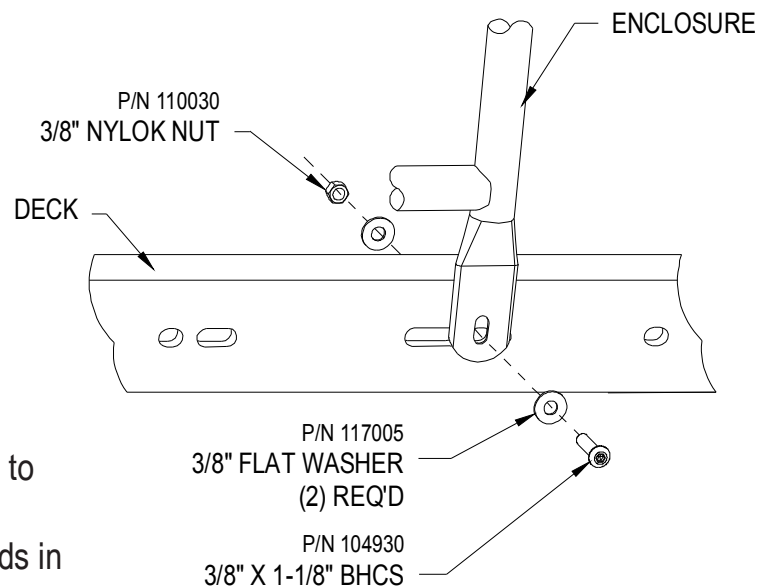
### STEP 4 AFFIX BAR SOCKET TO CLAMPS; SECURE CLAMPS TO POSTS

Refer to **Versalok Fastening System** installation.

Loosely affix a Bar Socket (with 1-1/16" diameter hole) to each set of Clamp Ring halves. Loosely assemble Clamps around Posts so that bottom edge of each is **37-1/2"** from top edge of Deck-supporting Clamp. It is acceptable to approximate final position of Clamps until Arch Enclosure is completely installed.

### STEP 5 INSTALL ENCLOSURE

Refer to **Versalok Fastening System** installation. Lift Arch Enclosure and place top rail ends into Bar Sockets.



Secure bottom of Arch Enclosure to Deck as shown. Plumb and level Enclosure, and tighten top rail ends in Bar Sockets, Bar Sockets on Clamps, and Clamp Rings around Posts.



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## Bumper Ladders

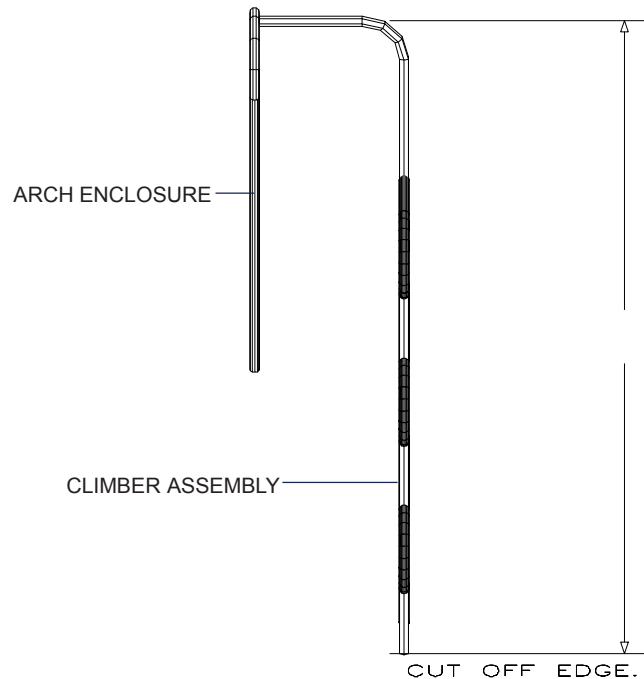
October 21, 2011

Rev. E

### STEP 6 INSTALL CLIMBER

Set Climber Assembly into footing so that Stub at top of Climber will fit into sleeve on Arch Enclosure.

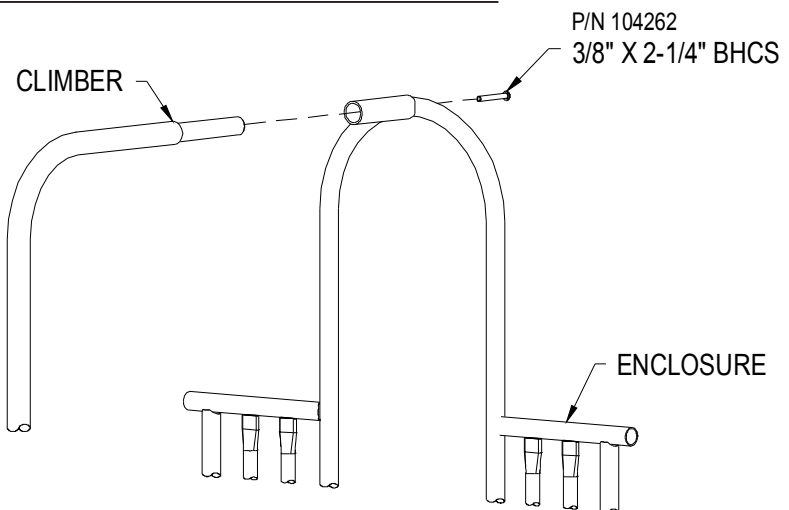
*Note: Climber Assemblies being mounted to **Deck heights other than shown** must first have lengths cut from bottom ends. Measure **90"** from uppermost surface of climber, and add Deck height from finished grade. Use hand saw to cut Climber Assembly at that point.*



90" + DECK HEIGHT FROM FINISH GRADE, i.e. FOR A CLIMBER FROM A 5' DECK, 90" + 60" = 150" FROM TOP OF CLIMBER TO CUT OFF EDGE.

### STEP 7 SECURE CLIMBER INTO ENCLOSURE SLEEVE

Secure swaged end of Climber Assembly in sleeve on Arch Enclosure as shown.



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

**NOTE: WHEN POURING THE CONCRETE FOOTING FOR THE BUMPER LADDER, DO NOT COVER THE SWAGED CONNECTION WITH CONCRETE!**

Bumper Ladders

718-976-3, 718-976-5, 718-976-6

## Risk Management Sign

**IMPORTANT!** The Risk Management Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side faces the main entrance to the playground** and next to but not interfering with the accessible route that leads to the play space.

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note: English version shown.



## Risk Management Sign

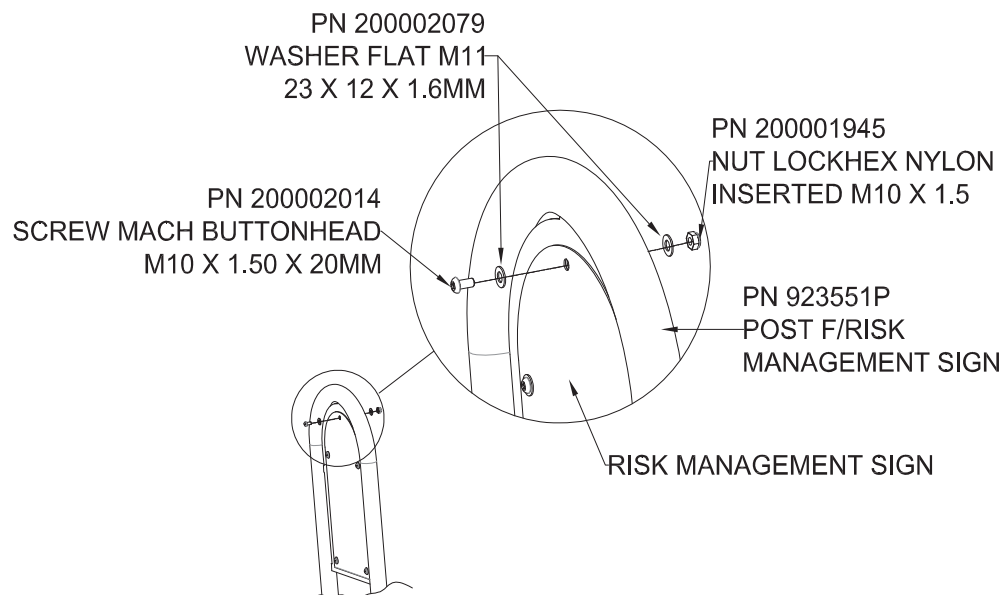
### STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



### STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

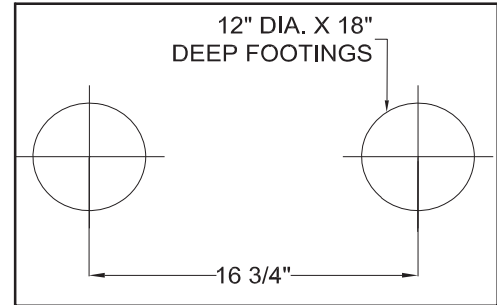


## Risk Management Sign

### STEP 3 DIG FOOTINGS

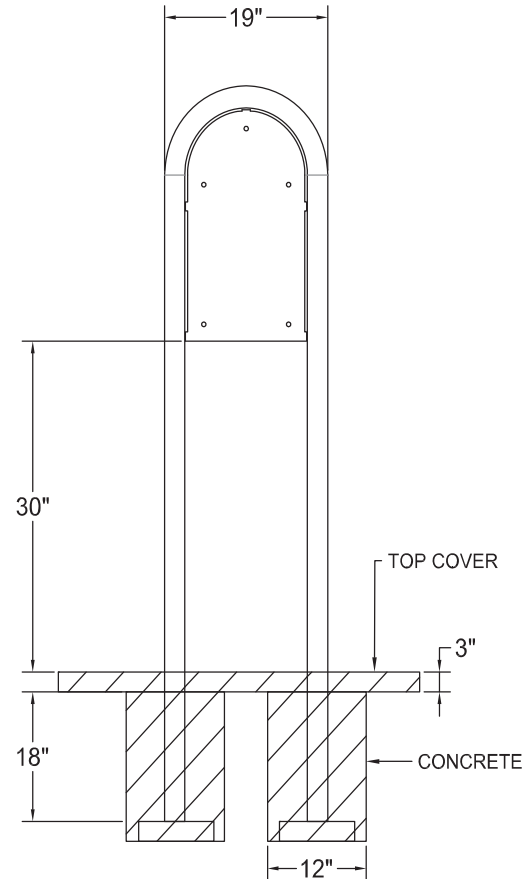
- 3a. Dig footings per *Footings Layouts*, *Construction Drawings*, and **Footings Details** installation.

*Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*



### STEP 4 SET SIGN IN FOOTINGS

- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in *Installation Manual*.

# Risk Management Sign

## Bill of Material

### Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH

### Parts Carton 923560

1	923287	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH

### Parts Carton 923558

1	923288	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH

### Parts Carton 923559

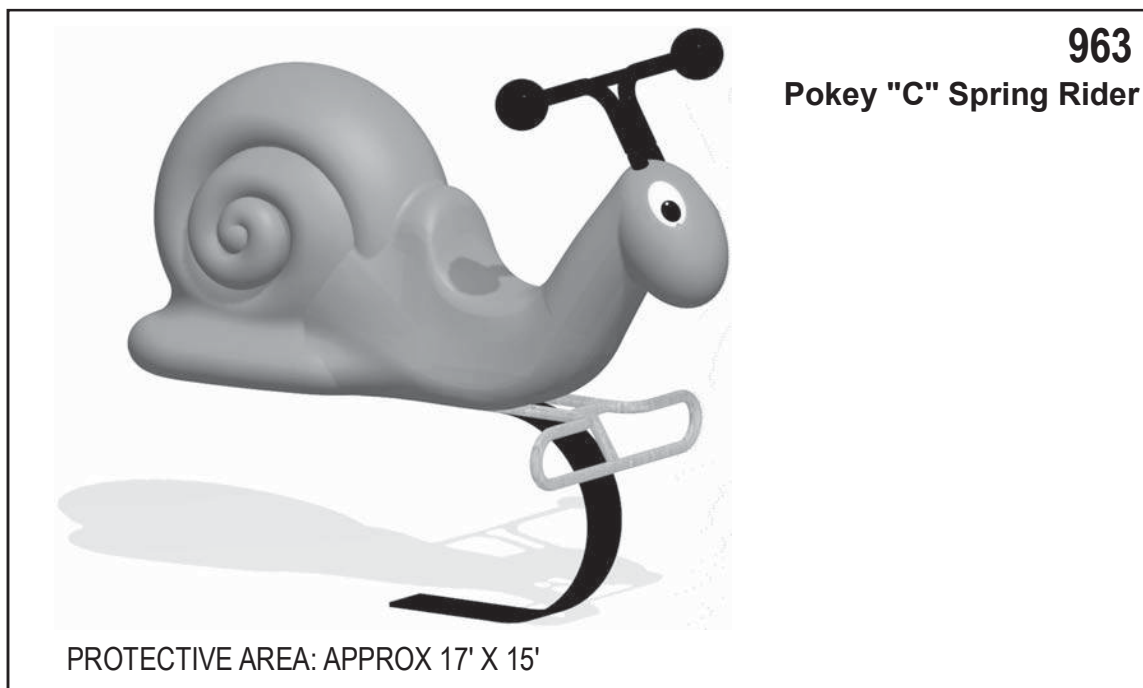
1	923289	RISK MNGT SIGN PRINTED SPANISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

### HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

## Bug Bites® "C" Spring Rider - Pokey

**IMPORTANT!** Prior to installation of any components, refer to **Playsystem Installation Guidelines and Tips** in the *Install 101* section of your manual. This section will provide important tips pertaining to **site preparation, footings, system stabilization**, and other necessary information **vital to the success of your installation.**



### TOOLS AND EQUIPMENT REQUIRED

*Also see 'Suggested Tools & Equipment' (Doc. # D70052) in 'Installations 101'*

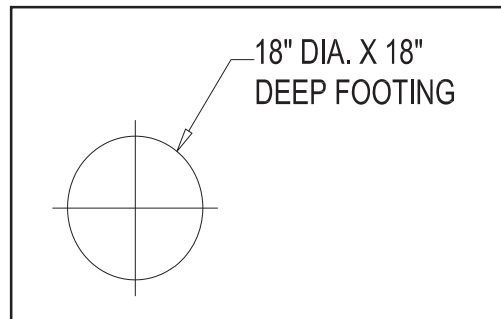
1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. 2 x 8's or other wood, nails, hammer to construct frame for concrete footing assembly
4. Tape measure and level
5. Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. For installation in concrete slabs: concrete saw
7. Adult installers - 2 minimum

## Bug Bites® "C" Spring Rider - Pokey

### STEP 1 FOOTING LAYOUT

1a. Locate and dig one 18" diameter footing by 18" deep.

NOTE: Footing assembly instructions for **natural surfacing, in-ground ONLY**. Consult the *CPSC Handbook* for guidelines for placement of Spring Riders, Bouncers, etc.

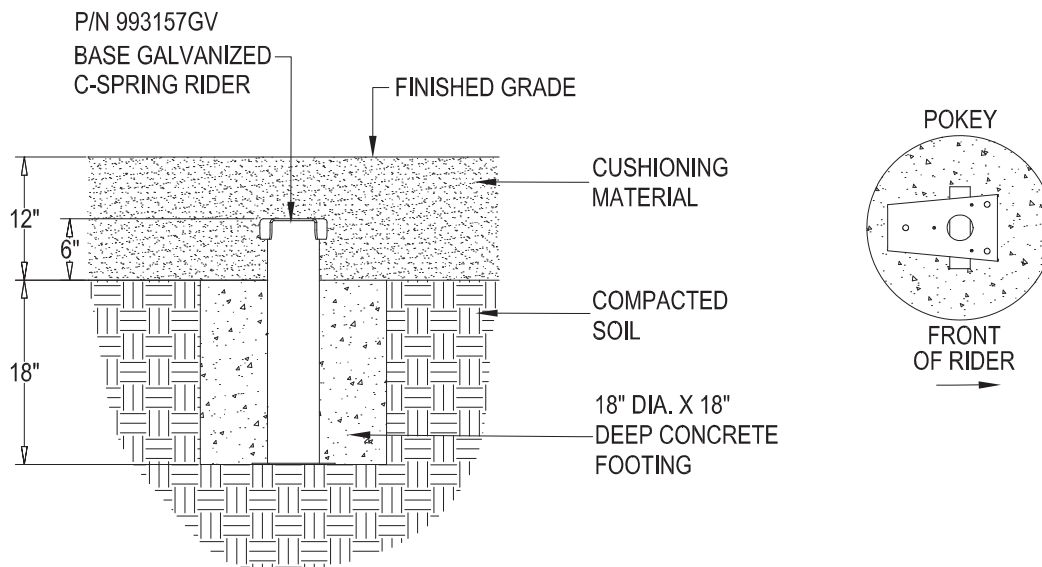


### STEP 2 BASE WELDMENT AND CONCRETE

2a. Set base weldment into footing; ensure it is completely plumb and level.

2b. Pour concrete to required distance from base weldment top.

2c. Allow concrete to cure completely prior to affixing rider assembly.

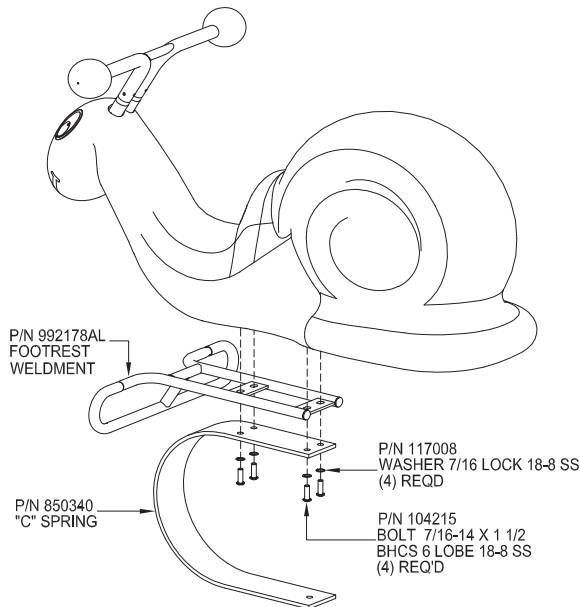


NOTE: Orientation of base weldment will affect direction of rider. See illustration above.

## Bug Bites® "C" Spring Rider - Pokey

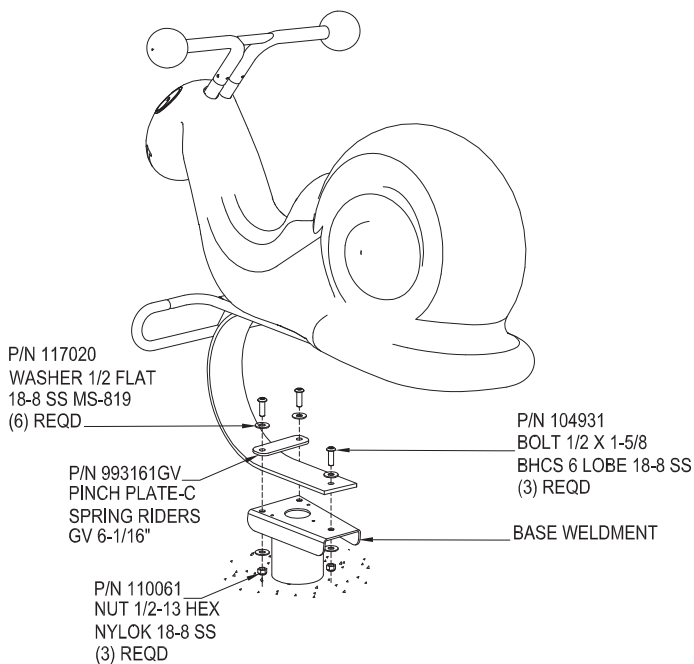
### STEP 3 ATTACH FOOTREST

- 3a. Install bolts upward through "C" Spring; attach footrest and rider body as shown below.



### STEP 4 ATTACH RIDER TO BASE WELDMENT

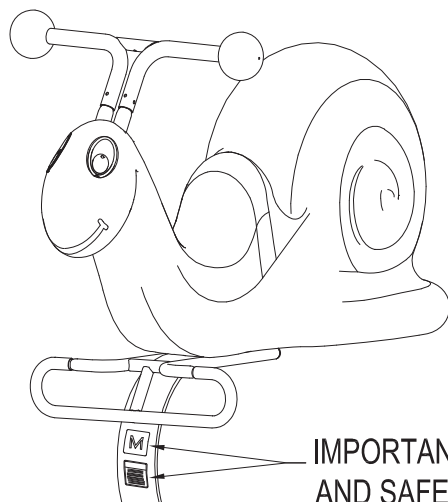
- 4a. Bolt pinch plate over "C" spring and base as shown below.
- 4b. Bolt spring to front of base. Ensure "C" spring and rider are level and plumb on base.



## Bug Bites® "C" Spring Rider - Pokey

### **STEP 5** AFFIX IDENTIFICATION/WARNING STICKERS

5a. Apply provided Miracle Identification and Warning Stickers to "C" spring as shown.



IMPORTANT: FOR IDENTIFICATION  
AND SAFETY PURPOSES APPLY  
STICKERS AS SHOWN.

NOTE: It is imperative that these stickers are CLEARLY visible.

### **FINAL STEP**

Refer to **Final Assembly** installation located behind *Installations 101* in Installation Manual.

## ***Bill of Materials***

### **POKEY "C" SPRING RIDER - MODEL # 963**

<u>QUANTITY</u>	<u>MODEL/COMPONENT</u>	<u>DESCRIPTION</u>
1	850340	"C" SPRING PAINTED BLACK
1	992175BOX	SNAIL BODY ASSEMBLY
1	992178AL	FOOTREST WELDMENT
1	993176	PARTS CARTON (SEE BELOW FOR CONTENTS)
1	993157GV	BASE GALVANIZED C-SPRING RIDER

### **PARTS CARTON # 993176**

<u>QUANTITY</u>	<u>MODEL/COMPONENT</u>	<u>DESCRIPTION</u>
4	104215	BOLT 7/16-14 X 1-1/2 BHCS 6 LOBE 18-8 SS
3	104931	BOLT 1/2-13 X 1-5/8 BHCS 6 LOBE 18-8 SS
3	110061	NUT 1/2-13 HEX NYLOK 18-8 SS
4	117008	WASHER 7/16 LOCK 18-8 SS
6	117020	WASHER 1/2 FLAT 18-8 SS MS-819
1	993161GV	PINCH PLATE-C SPRING RIDERS GALVANIZED
1	116021	LABEL MIRACLE ID - GENERIC
1	116022	LABEL WARNING - PLAYGROUND
1	104478	BIT T-50 FOR 7/16" BOLT
1	104481	BIT T-55 FOR 1/2" BOLT



# Installation Guide

June 4, 2001 Rev. C

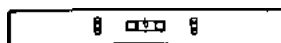
## Final Assembly

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice, Tots' Choice, Center Stage, and City Parks Series Deck Systems & Misc.

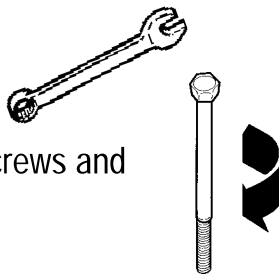
### STEP 1

Plumb and level assemblies.



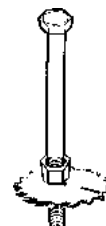
### STEP 2

Secure Clamps to Posts with self-drilling screws and tighten all fasteners.



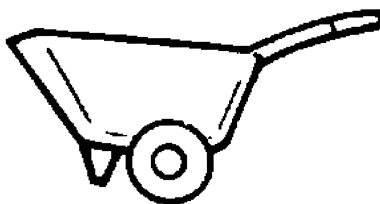
### STEP 3

Trim all bolts. No more than two (2) threads may protrude after trimming by installer. Peen ends smooth to touch.



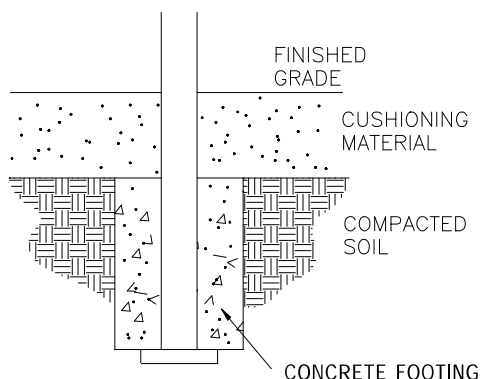
### STEP 4

Pour concrete in remaining Footings, and allow 72 hours to cure.



### STEP 5

Install cushioning material (protective surfacing) in, around and beneath areas required for unit.



### STEP 6

Apply *Warning* and *Manufacturer's I.D.* labels, and *Age Appropriate* labels if included. Refer to **Installations 101**.

### FINAL STEP

Establish and adhere to a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.



Final Assembly

714, 718, ...





## Biba Playground Entry Sign

**IMPORTANT!** The Biba Playground Entry Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side faces the main entrance to the playground** and next to but not interfering with the accessible route that leads to the play space.

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
9991	Biba Playground Entry Sign - English
9993	Biba Playground Entry Sign - French/English
9994	Biba Playground Entry Sign - Spanish/English
9995	Biba Playground Entry Sign - French



FRONT

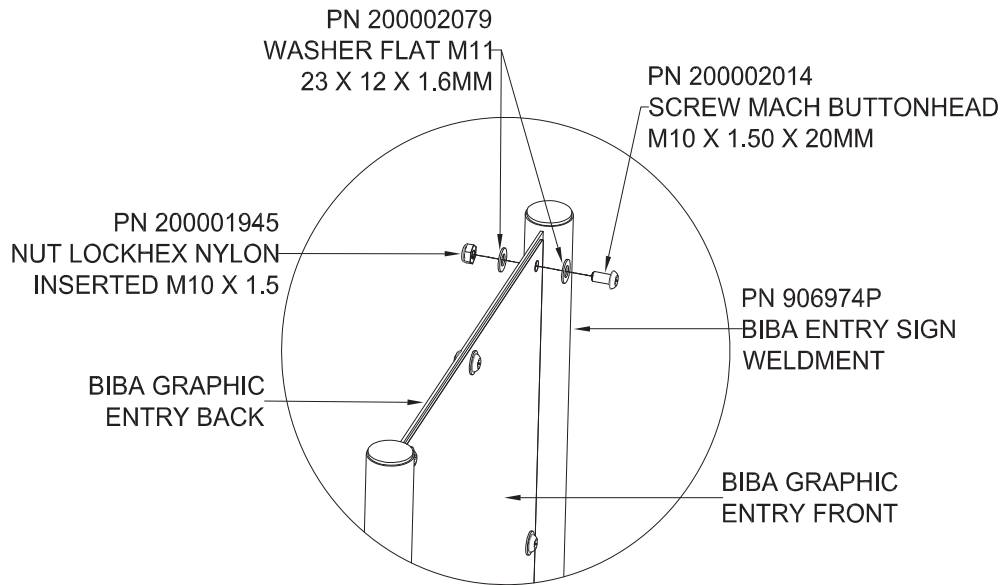


BACK

## Biba Playground Entry Sign

### STEP 1 ATTACH SIGN TO POST FRAME

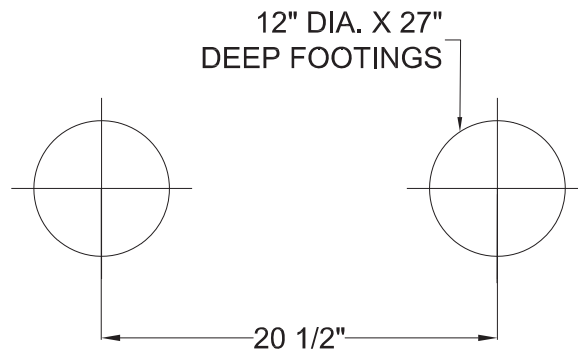
1a. Attach sign as shown below, in five (5) locations.



### STEP 2 DIG FOOTINGS

2a. Dig footings per *Footing Layouts, Construction Drawings, and **Footing Details** installation.*

*Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*

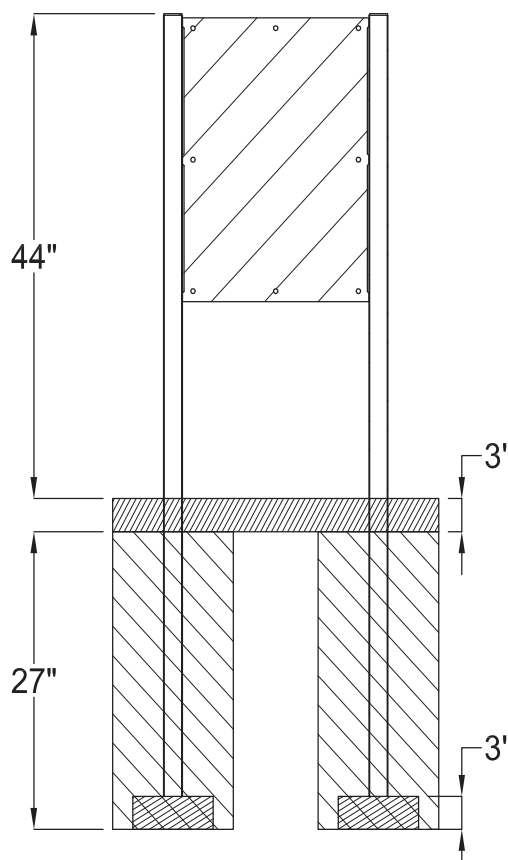




## Biba Playground Entry Sign

### STEP 3 SET SIGN IN FOOTINGS

- 3a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 3b. Set sign in footings per Construction Drawings pour concrete; plumb sign in footings and brace in position until concrete is cured.



### FINAL STEP

Proceed with **Final Assembly** installation located behind *Installations 101* in Installation Manual.

# Biba Playground Entry Sign

## Bill of Material

### Model 9991

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903979	BIBA GRAPHIC ENTRY FRONT FULL ENGLISH
1	903980	BIBA GRAPHIC ENTRY BACK FULL ENGLISH
1	912637	PARTS CARTON 9991 BIBA

### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
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### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 9993

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906215	BIBA GRAPHIC ENTRY FRONT FRENCH/ENGLISH
1	906214	BIBA GRAPHIC ENTRY BACK FRENCH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5



## Biba Playground Entry Sign

### Bill of Material cont.

#### Model 9994

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906217	BIBA GRAPHIC ENTRY FRONT SPANISH/ENGLISH
1	906216	BIBA GRAPHIC ENTRY BACK SPANISH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

#### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

#### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

#### Model 9995

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903988	BIBA GRAPHIC ENTRY FRONT FULL FRENCH
1	903989	BIBA GRAPHIC ENTRY BACK FULL FRENCH
1	912637	PARTS CARTON 9991 BIBA

#### Parts Carton 912637

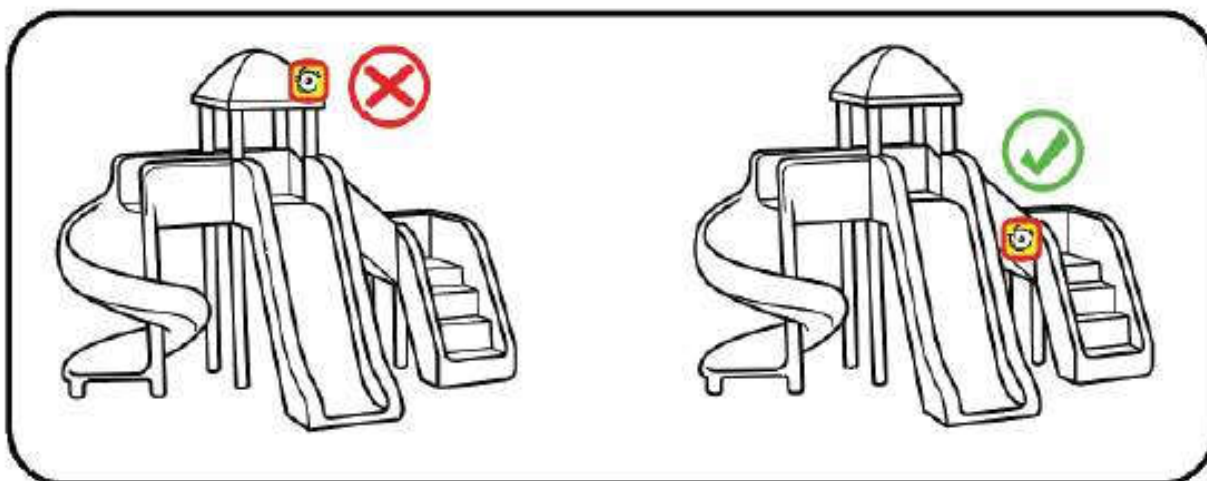
1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
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#### HW9991-1

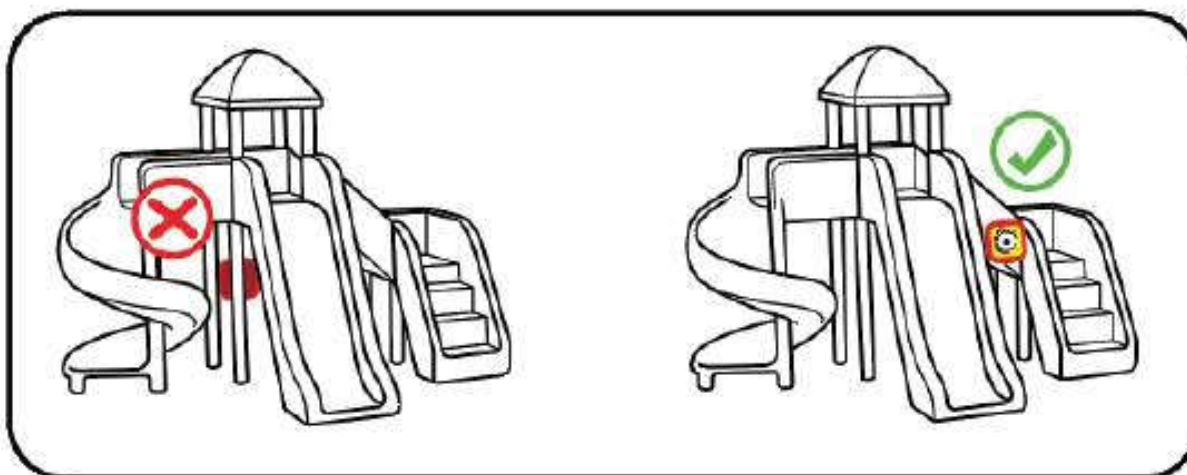
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

## Installation of Biba Play Event Markers

Locate post markers next to the specific events as indicated below.



**Markers should be installed no higher than 5ft above surfacing**



**Markers should always be installed facing outwards from structure**

**Step 1:** The markers should be placed at approximately 48" (1220 mm) above surfacing. Actual height may need to be adjusted to not conflict with structure clamps (default to lower rather than higher in this case, **no higher than 5', no lower than 2' above surfacing**). During play, markers will be scanned by caregivers at ground level. Place markers along accessible surfacing routes within the play space to facilitate wheelchair use. Markers need to be oriented so that they relate to the play activity but do not interfere with the play patterns of the users.

Attach the Biba play event markers as shown below.



**Step 2:** Stack up graphic backer (item 4) to Biba graphic (item 3) and nest them into the back of graphic frame (item 2). Position the assembly to the post next to the play event and attach using two (2) self-drilling TEK screws (item 1).

#### Parts List:

#	9992	Post Markers	Qty
1	104404	1 Bolt ¼ - 14 X 2 Hex Washer TEK	12
2	906977	Alum Frame For Biba Post Sign	6
3	906984	Biba Graphic Post Orange	1
3	906983	Biba Graphic Post Purple	1
3	906982	Biba Graphic Post Yellow	1
3	906981	Biba Graphic Post Blue	1
3	906980	Biba Graphic Post Red	1
3	906979	Biba Graphic Post Green	1
4	906978	Rubber Biba post sign backer	6

## Equipment Categories

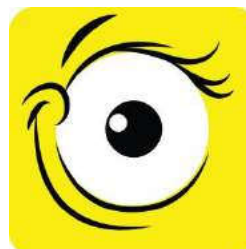
Marker colors are tied directly to each category and must be installed in the orientation shown

### Climbers Red Marker



This group contains all climbers and free standing climbers such as stepping pod climbers, rung climbers, net climbers, climbing walls, etc.

### Slides Yellow Marker



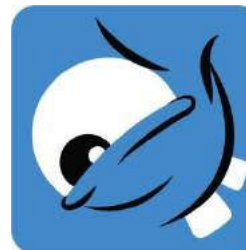
This group contains all types of slides such as spiral, curved, roller, tube, multi bed-way, etc.

### Overheads Purple Marker



.This group contains all overheads event such as overhead rotating wheels, ring treks, overhead ladders, chinning bars, etc.

### Tubes Blue Marker



This group contains crawl tubes that are structure mounted or those at ground level. In the case that the play equipment contains both a standard slide and a tube slide, then the tube slide can be placed in this category.



**Bridge/Deck to Deck link Orange Marker**

This group contains linking events such as suspension bridges, arch bridges, rope bridges, themed deck links, side step climbers, etc.

**Swings Green Marker**

.This category covers all types of swinging activities, such as multiuser dish swings, tire swings, generation swings, and tot or belt swings.

If your playground does not contain play equipment from each category, don't worry, the games can function with fewer than six markers/activities. Install markers next to each piece of equipment that is present. Markers for equipment not present should not be installed.



# Installation Guide

June 4, 2001 Rev. A

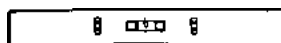
## Final Assembly

MIRACLE  
RECREATION EQUIPMENT COMPANY

Miscellaneous Freestanding Play Equipment and Non-Play Equipment

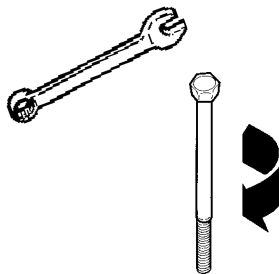
### STEP 1

Plumb and level assemblies.



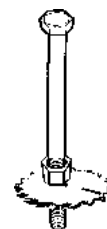
### STEP 2

Tighten all fasteners.



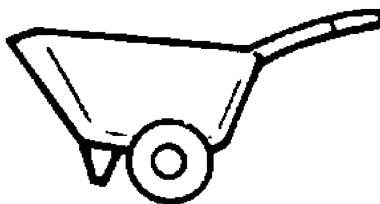
### STEP 3

Trim all bolts. No more than two (2) threads may protrude after trimming by installer. Peen ends smooth to touch.



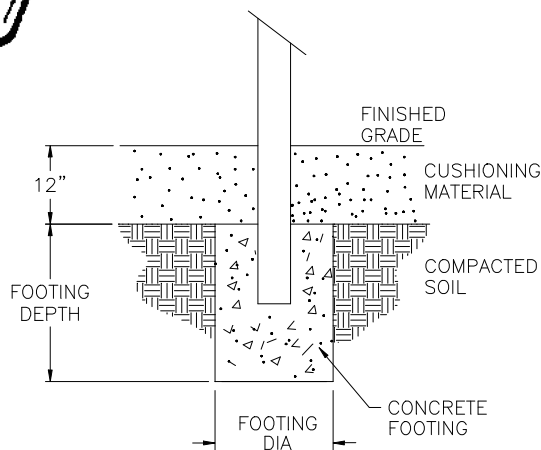
### STEP 4

Pour concrete in remaining Footings, and allow 72 hours to cure.



### STEP 5

If applicable, install cushioning material (protective surfacing) in, around, and beneath areas required for unit.



### STEP 6

If applicable, apply *Age Appropriate*, *Warning*, and *Manufacturer's I.D.* labels. Refer to *Installations 101*.

### FINAL STEP

Establish and adhere to a regular maintenance schedule, checking for loose or missing bolts, worn parts, etc.



Final Assembly

Freestanding Play and Non-Play Equipment

# Bill of Materials (Parts List)

12/7/2018 2:50:28 PM

Work Order: MR00116997

Cust #: 4850E01

W. O. Page 1 of 13

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

Qty		Model/Component	Description
2	*	2840	SLASHPROOF SEAT W/CHAIN (8' T/R)
2	**	990931BK	PARTS CARTON - S/P SEAT W/SHACKLES BLA
2		990410	SHACKLE "D", (SMALL), BAG OF 2 W/BOLTS
2		999604BK	BELT SWING SEAT, SLASHPROOF - NO LOGO
2	**	990932	PARTS CARTON-(2)-71" CHAINS
2		200187286	CHAIN F/8' TOP RAIL BELT/DURAGLIDE (71")
1	*	2901HH	SWING 2-LEG STD 8' T/R MCTE FOR (2) THER
1	**	116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL
1	**	116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT
4	**	851101AZR	LEG 10'-6" X 2 3/8" PAINT
2	**	983880GRN	YOKE ASSEMBLY PAINTED
1	**	985979	PARTS CARTON 2901
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		HW985979-1	HRDW PKG 2901 S1/1
2		988719	PIN, THREADED, 5/8" OD X 2-13/16" Zinc
4		984429ZP	CLEVIS SWING HANGER ZINC PLATED (DIRECT)
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	991787LIM	THERAPEUTIC TOP RAIL WELDMENT
1	**	995610	PARTS CARTON - LABELS F/THERAPEUTIC SEAT
1		116082	LABEL,SWING,INCLUSIVE,AGE 5-12 YRS, MREC
1		116091	LABEL,SWING,INCLUSIVE,AGE 2-12 YRS, MREC
1	*	2901X	8' STD ADD-A-BAY FRAME MCOTE
2	**	851101AZR	LEG 10'-6" X 2 3/8" PAINT
1	**	983882GRN	CENTER YOKE,SGL TOPRL PAINT
1	**	985903LIM	TOP RAIL ASSY 2 3/8 OD
1	**	991482	PARTS CARTON 2901X
1		HW991482-1	HRDW PKG 2901HHX S1/1

# Bill of Materials (Parts List)

12/7/2018 2:50:28 PM

Work Order: MR00116997

Cust #: 4850E01

W. O. Page 2 of 13

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

2		988719	PIN, THREADED, 5/8" OD X 2-13/16" Zinc
4		984429ZP	CLEVIS SWING HANGER ZINC PLATED (DIRECT)
1	**	995603	PARTS CARTON - LABELS F/8' HIGH T/R
1		116083	LABEL,SWING,BUCKET,AGE 24-47 MNTHS, MREC
1		116087	LABEL,SWING, BELT, AGE 2 TO 12 YRS, MREC
1		116088	LABEL, SWING, BELT, AGE 5-12 YRS, MREC
2	*	2990	TOT SEAT 360 DEG W/CHAIN (8' T/R)
2	**	990934BK	PARTS CARTON - S/P CHAIR W/SHACKLES
2		990410	SHACKLE "D", (SMALL), BAG OF 2 W/BOLTS
2		999605BK	TOT SWING SEAT 360 DEG - No logo
2	**	990935	PARTS CARTON-(2)-4'3" CHAINS
2		200187283	CHAIN F/8' TOP RAIL BUCKET SEAT BG (52")
1	*	304W	TEN SPIN
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
1	**	994990	PARTS CARTON - 2-12 LABEL
1		116036	LABEL - AGES 2-12 YEARS MREC
1	**	996273LIM	WHEEL F/SPINNER
1	**	996354ORN	PARTS CARTON GRIPS TEN SPIN
1		HW996354-1	HRDW PKG GRP TN SPN S1/1
5		996288ORN	HANDGRIP-TEN SPIN
1	**	996616CYN	ASSEMBLY-WHIRL BODY TEN SPIN
1	**	996618BLK	PARTS CARTON WHEEL TEN SPIN
1		996606BLK	TUBE-WHEEL WELDMENT
1		HW996618-1	HRDW PKG WHL TN SN S1/1
2		993297	WIRE, BB, 3 GA X 12"
1	**	996640BLK	POST-ASSEMBLY TEN SPIN
1	*	4382	CLIMBER PEAK 2-WAY
1	**	116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL
1	**	116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT
1	**	713552AZR	POST (W/ CAP) ASSY 5" O.D.X 136"
1	**	912375GRN	PC BAR SOCKET W/HDW (4 SETS)

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* Model
** Component

1		HW912375-1	HRDW PKG BAR SKT (4) S1/1
4		102411GRN	BAR SOCKET-BOTTOM 1.315" O.D.
4		102412GRN	BAR SOCKET-TOP 1.315" O.D.
1	**	912380GRN	5" KC (2) CLAMP W/HDW
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		HW912380-1	HRDW PKG CLMP/BIT (2) S1/1
4		713010GRN	CLAMP RING 5" DIA
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES
1		713550	STICKER TOP OF SURFACING
2	**	987716LIM	PEAK CLIMBER WELDMENT
2	**	990968GRN	5" OD KC HEADER SUPPORT COMPLETE
2		104285	SET SKT 3/8-16 X 3/8 18-8 SS
2		986153GRN	HEADER SUPPORT CASTING
2		988749	DRIVE RIVET, NAIL-IN
1	**	994991	PARTS CARTON - 5-12 LABEL
1		116037	LABEL - AGES 5-12 YEARS MREC
51	*	44012R	MIRACLE TIMBER 6' L X 12" H RECYCLED
51	**	112602RE	MIRACLE TIMBER REGRIND
1	*	4406R	ACCESS RAMP WITH 2 MIRACLE TIMBERS RECYC
1	**	988844RE	ACCESS RAMP WITH 2 MIRACLE TIMBERS
1	*	477002	JAX PACK-TWO
1	**	116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL
1	**	116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT
2	**	912289AZR	PARTS CARTON FOR 995543 TOP OF POST
2		995645AZR	CAM LOCK ASSEMBLY W/O CENTER HOLE
2		HW912289-1	HRDW PKG F/JAX PSTTP S1/1
1	**	986348	PARTS CARTON-GENERIC AND WARNING LABELS
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116099	LABEL, PLAY SMART RULES

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* Model
** Component

1		713550	STICKER TOP OF SURFACING
1	**	995543LIM	JAX 1 HOLE LIM
1	**	995543ORN	JAX 1 HOLE
2	**	995640AZR	SUPPORT ASSEMBLY - CENTER HOLE
2	**	995821AZR	POST-BENT R24 X 81-1/16"
1	**	996031	PARTS CARTON - JAX INSTALLATION TOOLS
1		995772BLK	CAM LOCK INSTALLATION TOOL
1	*	714715206	MAGICAL MUSIC PANEL INSERT FOR KC/TC/TCX
1	**	923418	PC F/ACTIVITY PANEL INSERT
1		HW923418-1	HRDW PKG F/PLAY PANEL S1/1
1	**	ASY0448	ASSY - MUSIC INSERT
2	*	7147721	BONGO PERCH
2	**	986041CYN	STEPPING POD
2	**	986117LIM	POST ASSY, 50" - BONGO POD
2	**	986498	PARTS CARTON-HONEYCOMB POD
2		HW986498-1	HRDW PKG 7147923R13 S1/1
3	*	7147721	BONGO PERCH
3	**	986041ORN	STEPPING POD
3	**	986117LIM	POST ASSY, 50" - BONGO POD
3	**	986498	PARTS CARTON-HONEYCOMB POD
3		HW986498-1	HRDW PKG 7147923R13 S1/1
1	*	714913	BALANCE BEAM
1	**	908145LIM	BALANCE BEAM 162-913 PAINTED
2	**	908164LIM	LEG RND. F/BALANCE BEAM
1	**	HW907317-1	HRDW PKG BALANCE BEAM S1/1
1		HWS47433	HARDWARE STICKER MP FLTNG BALANCE BEAM
9		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
1	*	7185029	DECK SQUARE ATTACHES TO 4 POSTS MT II
2	**	912253LIM	3.5" TC (8) 1/2 CLAMPS 1/1
2		HW912253-1	HRDW PKG 3.5 4CLMP S1/1
16		983856LIM	CLAMP RING 3.5 DIA
1	**	982073	PARTS CARTON 718502
1		116021	LABEL MIRACLE ID - GENERIC
1		116022	LABEL WARNING - PLAYGROUND - ENGLISH
1		116039	LABEL MIRACLE ID - TOTS' CHOICE

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* Model
** Component

1		116099	LABEL, PLAY SMART RULES
1		HW982073-1	HRDW PKG DK SPT S1/1
4		713550	STICKER TOP OF SURFACING
4		981722	DECK SUPPORT 3.5" OD TUBE
1	**	988130GY	TC- SQUARE DECK
2	*	7185039	DECK 1/2 HEX FULL ATTA TO 4 POSTS MTII
6	**	912255LIM	3.5" TC (4) 1/2 CLAMPS 1/1
6		HW912255-1	HRDW PKG 3.5 TC 2CLP S1/1
24		983856LIM	CLAMP RING 3.5 DIA
2	**	982074	PARTS CARTON 718503
2		116021	LABEL MIRACLE ID - GENERIC
2		116022	LABEL WARNING - PLAYGROUND - ENGLISH
2		116039	LABEL MIRACLE ID - TOTS' CHOICE
2		116099	LABEL, PLAY SMART RULES
2		HW982074-1	HRDW PKG 718503 S1/1
8		713550	STICKER TOP OF SURFACING
8		981722	DECK SUPPORT 3.5" OD TUBE
2	**	988146GY	TC - 1/2 HEX DECK FPS
1	*	7185493	POST 3-1/2"OD X 106" 3' DECKS
1	**	995232AZR	POST 3.5" OD(W/CAP)X13GAX106"
2	*	7185494	POST 3-1/2"OD X 118" 4' DECKS
2	**	995233AZR	POST 3.5" OD(W/CAP)X13GAX118"
1	*	718551	POST 3-1/2"OD X 100" 2'6" DECKS OR LESS
1	**	981925AZR	POST (W/CAP) ASSY-3 1/2 OD X 100"TC
5	*	718552	POST 3-1/2"OD X 130" 3'-5' DECKS
5	**	981926AZR	POST (W/CAP) ASSY-3 1/2 OD X 130"TC
1	*	718553	POST 3-1/2"OD X 148" 5'6"-6'6" DECKS
1	**	981927AZR	POST (W/CAP) ASSY-3 1/2 OD X 148"TC
2	*	718573	POST 3-1/2" OD X 162" FOR ROOF(3'6-5'DK)
2	**	981930AZR	POST-3 1/2 OD X 162"
1	*	718574	POST 3-1/2"OD X 180" FOR ROOF 5'6"-6'6"
1	**	981929AZR	POST-3 1/2 OD X 180"
3	*	718620	TOPPER, BIG TIMBER POST, TC
3	**	994370	PARTS CARTON 704620, 718620
3		981787	3 1/2" POST CAP CAST ALUMINUM

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* Model
** Component

3		HW994370-1	HRDW PKG 704620 S1/1
3	**	994371LIM	TOPPER, BIG TIMBER POST, 3-1/2" OD POST
1	*	718700	SLIDE SIDE-BY-SIDE W/CANOPY 3' DECK
1	**	112590ORN	SLIDE DOUBLE WIDE 3' DECK
1	**	978930LIM	SLIDE LEG FRONT SKI SLIDE
1	**	988358LIM	TOP RAIL-TC CANOPY
1	**	989723ORN	CANOPY-WIDE SLIDE TC, W/FILL BLOCK
1	**	989873LIM	PARTS CARTON 718-700 AND 718-874
1		HW989873-1	HRDW PKG 718874 M1/1
2		102411LIM	BAR SOCKET-BOTTOM 1.315" O.D.
2		102412LIM	BAR SOCKET-TOP 1.315" O.D.
1	*	71871520	ACTIVITY PANEL FRAME ABOVE DECK
1	**	923416WHT	ACTIVITY PANEL FRAME
1	**	982631	PARTS CARTON PANELS
1		HW982631-1	HRDW PKG PANELS S1/1
1	**	982664LIM	RUNG BRACKET ASSY PANEL
2	**	990950LIM	PRT CRTN-TC BAR SOCKET 1.000" OD TUBE
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
2		HW990950-1	HRDW PKG TC BAR SCKT 1 ST S1/1
1	*	71874859	SLIDE TYPHOON II 6'2" 360 DEG 5' DK MTII
1	**	850184ORN	MUST ORDER WITH CORRECT COLOR CANOPY
1	**	912255LIM	3.5" TC (4) 1/2 CLAMPS 1/1
1		HW912255-1	HRDW PKG 3.5 TC 2CLP S1/1
4		983856LIM	CLAMP RING 3.5 DIA
1	**	980892ORN	PARTS CARTON (2) 4" PLUGS
2		103543ORN	PLUG ROCKITE 4" ORANGE
1	**	984135LIM	TYPHOON SLIDE LEG
1	**	985505AZR	PARTS CARTON 718-749-5
1		HW985505-1	HRDW PKG 7187495 L1/2
1		HW985505-2	HRDW PKG 7187495 L2/2
2		976468ZP	BACK-UP FLANGE - ZINC PLATED
4		102411AZR	BAR SOCKET-BOTTOM 1.315" O.D.
4		102412AZR	BAR SOCKET-TOP 1.315" O.D.
1	**	986555S	TYPHOON II SLIDE ASSY (360 DEGREE)



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* Model
** Component

0	995685	SEALANT, 3M 730 HYBRID CLEAR
1	112593ORN	CYCLONE PLATFORM ROCKITE
1	986052ORN	TYPHOON II SLIDE W/120-1/2" POLE
1	987270	BOX, TYPHOON/CYCLONE SHIPPING
2	104180	BOLT 1/2-13 X 1 BHCS 6 LOBE 18-8 SS
2	104977	BOLT 3/8-16 X 2 1/2 HHCS 18-8 SS
3	104057	BOLT 3/8-16 X 2 HHCS 18-8 SS
3	104488	BOLT 1/2 X 1 1/4 BHCS 18-8 SS
3	117020	WASHER 1/2 FLAT 18-8 SS MS-819
5	103538ORN	PLUG ROCKITE 2 1/2" ORANGE
5	103543ORN	PLUG ROCKITE 4" ORANGE
5	110066	NUT 3/8-16 HEX 18-8 SS CADMIUM PLATED
11	117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS
16	985954	BACK-UP FLANGE CYCLONE SLIDE ZINC PLTD
1	** 987195GY	STAIR, 5' DK TYPHOON ADA
1	** 989361LIM	STEP ENCLOSURE RH 714-748-59
1	** 989362LIM	STEP ENCLOSURE LH 714-748-59
2	** 991963LIM	DECK ENCLOSURE 718-748-49C
1	* 7187721	BONGO PERCH
1	** 986041ORN	STEPPING POD
1	** 986117LIM	POST ASSY, 50" - BONGO POD
1	** 986498	PARTS CARTON-HONEYCOMB POD
1	HW986498-1	HRDW PKG 7147923R13 S1/1
1	* 718782	CRUNCH STATION
1	** 993067LIM	PARTS CARTON CRUNCH STATION
1	116045	LABEL-CRUNCH BAR MREC
1	993066LIM	CRUNCH STATION ASSY
3	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
1	* 718796P1	BELL (POST MOUNT)
1	** 990951LIM	3.5" OD TC BAR SOCKET 1.315"OD PIPE
1	102411LIM	BAR SOCKET-BOTTOM 1.315" O.D.
1	102412LIM	BAR SOCKET-TOP 1.315" O.D.
1	104285	SET SKT 3/8-16 X 3/8 18-8 SS
1	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
2	104750	BOLT 1/4-20 X 5/8 BHCS 6 LOBE 18-8 SS

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* Model
** Component

1	**	990964LIM	3.5" OD TC VERSALOK CLAMP COMPLETE
2		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
2		104749	BOLT 1/4-20 X 1 1/4 BHCS 6 LOBE 18-8 SS
2		104942	INSULATOR, SCREW, 1/4 DIA HOLE X 3/8
2		983856LIM	CLAMP RING 3.5 DIA
1	**	991824LIM	PARTS CARTON 714 & 718-796-P1
1		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
1		991819LIM	BELL ASSEMBLY
1	*	718808	CLIMBING POLE 3', 5' OR 6' DECK
1	**	713166LIM	POLE W/INSERT CLIMBING
1	**	982498LIM	PARTS CARTON 718-908
1		HW982498-1	HRDW PKG 718908 S1/1
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
1	**	990660LIM	ARCH ENCLOSURE ASSY, CLIMBER
1	*	7188135	DECK ENCLOSURE F/OH CLIMBRS
2	**	982602LIM	DECK ENCLOSURE-OH CLIMBERS
1	**	990930LIM	PARTS CARTON 7188135
1		HW990930-1	HRDW PKG 7188135 M1/1
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
1	*	7188155	END LADDER FOR OH CLIMBERS
1	**	912255LIM	3.5" TC (4) 1/2 CLAMPS 1/1
1		HW912255-1	HRDW PKG 3.5 TC 2CLP S1/1
4		983856LIM	CLAMP RING 3.5 DIA
1	**	982350LIM	PARTS CARTON 718-843
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
2		104049	SET SKT 3/8-16 X 3/4 18-8 SS
4		104750	BOLT 1/4-20 X 5/8 BHCS 6 LOBE 18-8 SS
1	**	982383LIM	END CLIMBER-OH CLIMBERS
1	*	7188435	CHINNING BAR ONLY
1	**	912255LIM	3.5" TC (4) 1/2 CLAMPS 1/1
1		HW912255-1	HRDW PKG 3.5 TC 2CLP S1/1
4		983856LIM	CLAMP RING 3.5 DIA

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* Model
** Component

1	**	981765LIM	CHINNING BAR-37" TC
2	**	990950LIM	PRT CRTN-TC BAR SOCKET 1.000" OD TUBE
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
2		HW990950-1	HRDW PKG TC BAR SCKT 1 ST S1/1
1	*	7188645SR	BRIDGE, HANDRING, "S", RH, TC
1	**	912253LIM	3.5" TC (8) 1/2 CLAMPS 1/1
1		HW912253-1	HRDW PKG 3.5 4CLMP S1/1
8		983856LIM	CLAMP RING 3.5 DIA
1	**	986677	PARTS CARTON 714864105
1		HW986677-1	HRDW PKG 714864105 S1/1
8		986677ZP	HANDRING CAST, ZINC PIATED (DIRECT)
4	**	990965LIM	3.5" OD TC HEADER SUPPORT COMPLETE
4		104285	SET SKT 3/8-16 X 3/8 18-8 SS
4		988749	DRIVE RIVET, NAIL-IN
4		990478LIM	HEADER SUPPORT 3.5" OD-TC
1	**	994065LIM	BEAM ASSY, "S", RH, HANDRING BRIDGE
1	*	718908	CLIMBER SPIDER 3, 5' OR 6' DECK
1	**	713150LIM	CLIMBER ASSY, SPIDER
1	**	982498LIM	PARTS CARTON 718-908
1		HW982498-1	HRDW PKG 718908 S1/1
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
1	**	990660LIM	ARCH ENCLOSURE ASSY, CLIMBER
1	*	7189599	STAIR ADA 3' TO 5' DECK CLOSED HNDRL
1	**	912255LIM	3.5" TC (4) 1/2 CLAMPS 1/1
1		HW912255-1	HRDW PKG 3.5 TC 2CLP S1/1
4		983856LIM	CLAMP RING 3.5 DIA
1	**	982279LIM	PARTS CARTON 718-810
1		HW982279-1	HRDW PKG 718810 M1/1
4		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
4		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
1	**	982546LIM	PARTS CARTON STAIR CASTINGS
2		982461LIM	STEP CASTING 1" HOLE BLIND
1	**	988162GY	TC - 3 STEP ATA FPS

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* Model
** Component

2	**	996799LIM	STAIR ENCLOSURE 718-959-9
1	*	718965359	TRANSFER PT W/OPEN HNDRL 3' DECK MT II
2	**	715264LIM	RUNG LEG
2	**	982677LIM	HANDRAIL-TOP TRANSFER POINT
1	**	982678LIM	HANDRAIL-BTM TRANSFER POINT
1	**	982682LIM	PARTS CARTON 718-965
1		HW982682-1	HRDW PKG 718965 L1/1
2		102411LIM	BAR SOCKET-BOTTOM 1.315" O.D.
2		102412LIM	BAR SOCKET-TOP 1.315" O.D.
1	**	987145GY	STEP, KC TP BTM FPS
1	**	988139GY	TC - TRANS PT DECK FPS
1	**	988142GY	TC - TRANS PT TOP STEP FPS (22-7/8" RISE
1	*	7189763	LADDER BUMPER 3' DECK
1	**	982498LIM	PARTS CARTON 718-908
1		HW982498-1	HRDW PKG 718908 S1/1
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
1	**	990660LIM	ARCH ENCLOSURE ASSY, CLIMBER
1	**	996310S	LADDER ASSY, BUMPER - 3' DECK
1		711103CYN	BUMPER, ROCKITE
1		711103LIM	BUMPER, ROCKITE
1		711103ORN	BUMPER, ROCKITE
1		996307	POLE EXTENSION, BUMPER LADDERS
1		996309LIM	POLE BUMPER LADDER 3'DK
2		103012	COLLAR ALUMINUM SHOULDER
2		104073	SET SKT 3/8-16 X 1/2 BOLT 18-8 SS
2		104366	BOLT 1/4 X 1 HEX WASHER TEK SS
8		104904	BOLT 5/16-18 X 2 1/4 BHCS 6 LOBE 18-8 SS
8		110018	NUT 5/16-18 X 3/4 CAMTAINER 6-LOBE 18-8
8		117001	WASHER 1/4 FLAT 18-8 SS MS15795-811
1	*	718999Z	INSTALLATION KIT TC NO COST
2	**	990950LIM	PRT CRTN-TC BAR SOCKET 1.000" OD TUBE
2		102413LIM	BAR SOCKET-TC BOTTOM 1.000" O.D.
2		102414LIM	BAR SOCKET-TC TOP 1.000" O.D.
2		HW990950-1	HRDW PKG TC BAR SCKT 1 ST S1/1

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* Model
** Component

1	**	990964LIM	3.5" OD TC VERSALOK CLAMP COMPLETE
2		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
2		104749	BOLT 1/4-20 X 1 1/4 BHCS 6 LOBE 18-8 SS
2		104942	INSULATOR, SCREW, 1/4 DIA HOLE X 3/8
2		983856LIM	CLAMP RING 3.5 DIA
2	**	990967LIM	PC BAR SOCKET W/HDW (1 SET)
2		102411LIM	BAR SOCKET-BOTTOM 1.315" O.D.
2		102412LIM	BAR SOCKET-TOP 1.315" O.D.
2		104285	SET SKT 3/8-16 X 3/8 18-8 SS
2		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
4		104750	BOLT 1/4-20 X 5/8 BHCS 6 LOBE 18-8 SS
1	**	999001	CUSTOMER ENVELOPE (BLUE) (MAILED)
1	**	999002	DNO INSTALLER ENVELOPE (RED)
1	**	999005ORN	PART BAG-I.D.LABELS & PLUGS
1		103543ORN	PLUG ROCKITE 4" ORANGE
2		116021	LABEL MIRACLE ID - GENERIC
2		116022	LABEL WARNING - PLAYGROUND - ENGLISH
2		116099	LABEL, PLAY SMART RULES
1	**	999006AZR	TOUCH UP PAINT-POST
1		115208AZR	PAINT AZURE GLOSS 4.5 OZ AEROSOL CAN
1		115209AZR	PAINT 0.6 OZ.TOUCHUP BOTTLE
1	**	999007LIM	TOUCH UP PAINT-ACCENT
1		115208LIM	PAINT LIME GLOSS 4.5 OZ AEROSOL CAN
1		115209LIM	PAINT 0.6 OZ.TOUCHUP BOTTLE
1		995685	SEALANT, 3M 730 HYBRID CLEAR
1	**	999015	WHITE BOX-INSTALLATION KIT
1	**	999019	PART BAG-CUSTOMER SERVICE KIT TC
1		103529	1 1/4" PIPE PLUG FOR 1 7/16"ID PIPE
1		104049	SET SKT 3/8-16 X 3/4 18-8 SS
1		981722	DECK SUPPORT 3.5" OD TUBE
2		103545	1" TUBE PLUG-PLASTIC F/14 GA
2		104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS
2		104750	BOLT 1/4-20 X 5/8 BHCS 6 LOBE 18-8 SS
4		103528	PIPE PLUG 1" FOR 1 1/8" ID PIPE (DIAMOND
4		104472	BIT 6 LOBE T-27 FOR 1/4" BOLTS

# Bill of Materials (Parts List)

12/7/2018 2:50:28 PM

Work Order: MR00116997

Cust #: 4850E01

W. O. Page 12 of 13

CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

4		104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS
4		304024	BIT 6 LOBE T-45 TAMPER RESISTANT FOR M10
6		104964	RIVET, RATCHET, WHITE PLASTIC
25		104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK
25		104942	INSULATOR, SCREW, 1/4 DIA HOLE X 3/8
4	**	999133	PARTS CARTON - 5-12 LABEL - WHITE BOX
4		116037	LABEL - AGES 5-12 YEARS MREC
1	*	787Z	RISK MANAGEMENT SIGN - ENGLISH
1	**	923551AZR	POST F/RISK MANAGEMENT SIGN
1	**	923560	PC F/787 RISK MNGMT ENGLISH
1		923287	RISK MNGT SIGN PRINTED ENGLISH (DNO)
1	**	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1
1		HWS923551	HARDWARE STICKER 923551
5		200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5
5		200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10		200002079	WASHER FLAT M11 23 X 12 X 1.6MM
1	*	963	RIDER ROCKITE SNAIL W/C-SPRING, POKEY
1	**	992175BOX	SNAIL BODY ASSEMBLY
1	*	9991Z	BIBA ENTRY SIGN
1	**	903979	BIBA GRAPHIC ENTRY FRONT FULL ENGLISH
1	**	903980	BIBA GRAPHIC ENTRY BACK FULL ENGLISH
1	**	906974AZR	BIBA ENTRY SIGN WELDMENT
1	**	912637	PARTS CARTON 9991 BIBA
1		HW9991-1	HRDW PKG F/BIBA ENTRY SIGN S1/1
1	*	9992Z	BIBA POST MARKERS
6	**	906977	ALUM FRAME FOR BIBA POST SIGN
6	**	906978	RUBBER BIBA POST SIGN BACKER
1	**	906979	BIBA GRAPHIC POST GREEN
1	**	906980	BIBA GRAPHIC POST RED
1	**	906981	BIBA GRAPHIC POST BLUE
1	**	906982	BIBA GRAPHIC POST YELLOW
1	**	906983	BIBA GRAPHIC POST PURPLE
1	**	906984	BIBA GRAPHIC POST ORANGE
1	**	HW9992-1	HRDW PKG BIBA POST MARKER S1/1
1		HWS9992	HARDWARE STICKER BIBA POST MARKERS

**Bill of Materials (Parts List)**

12/7/2018 2:50:28 PM

Work Order: MR00116997

Cust #: 4850E01

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CITY OF FLINT  
1101 S. SAGINAW ST.  
FLINT, MI 48502

* Model
** Component

12	104404	BOLT 1/4-14 X 2 HEX WASHER TEK
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Total Weight:	8327.00
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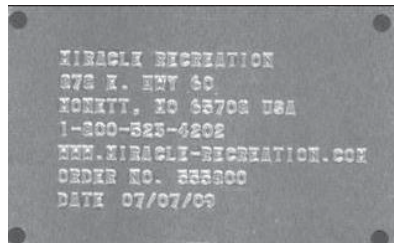


# Installation Guide

September 2, 2011

Rev. C

**MIRACLE** CPSIA Labels  
RECREATION EQUIPMENT COMPANY



NOTE: It is Miracle Recreation's practice to attach CPSIA labels to the equipment at the factory. For composite equipment, these labels will be attached to a transfer point, 2' stairs or a deck post. If there is not a label attached to your equipment, contact Miracle's Customer Service Department at the number provided below. Upon receipt of the label, use this installation guide to attach it correctly.

## APPLICATION OF CPSIA LABELS - METAL TAG

Using the tag as a template, mark and drill four (4) 5/32" diameter holes from label location. Prepare surface; remove any dust, oil or grime from the label location area. Ensure the area is dry. Using hardware provided with tag, attach in four places via either pop rivets or screws. Seal exposed steel edges with touch-up paint or silicone caulk.

## APPLICATION OF CPSIA LABELS - STICKER WITH LAMINATE OVERLAY

Prepare surface; remove any dust, oil or grime from the label location area on the post. Ensure the area is dry. When area is both clean and dry, carefully peel off label from paper backing and place on flat metal surface so that it is flush and flat with no wrinkles or tears. Apply clear laminate on top of CPSIA label so that ALL portions of the CPSIA label are laminate-protected.

## REPLACEMENT OF CPSIA APPROPRIATE LABELS

If label should become illegible, torn or is removed it is necessary for the owner to replace the label. Replacement labels may be obtained by calling our Customer Service Department at **1-800-523-4202**, or by writing to:

**Miracle Recreation Equipment Company**  
878 E. Hwy. 60  
Monett, MO 65708-0420

CPSIA Labels

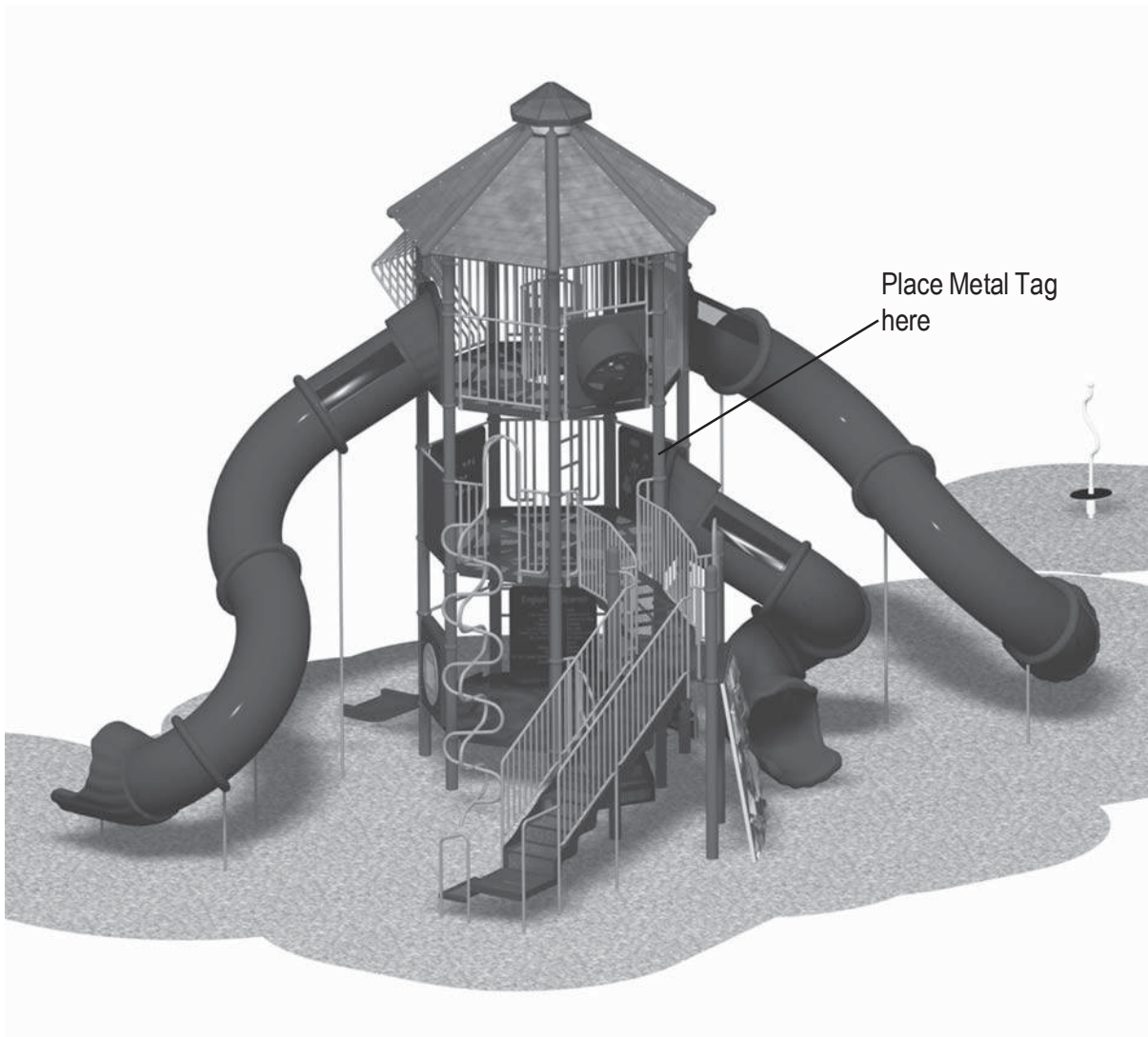
714, 718, 704, Misc. (Doc 997)



## CPSIA Labels

### COMPOSITE STRUCTURES:

Any playstem where all components are either structurally or functionally linked requires ONE metal CPSIA tag. The CPSIA tag should be placed on a deck post at or near the deck access points (stairs, ramps, transfer points, ladders, etc.). Each tag should be positioned so it is readable by a person entering onto the deck.



## INDEPENDENT EVENTS:

Any component that is NOT structurally or functionally linked to a playsystem is considered an independent event and will require its own label. The categories for independent events are as follow:

### POST - Use sticker with laminate overlay

The definition of "post" in regard to labelling is ANY smooth painted metal surface (e.g. Deck posts, Swing Legs, etc) that is at LEAST 1-7/8" in diameter. Components considered in the Post category include:

- Swings - Place on swing leg.
- Whirl - Place on center post.
- Saddle Seat (post mounted) - Place on post.
- Jet-Ski Freeride - Place on middle post.
- Freestanding Panels - Place on frame or post.
- Bongo-Boingo - Place on post.
- Accessories (e.g. signs, Whirl) - Place on post.
- Pool Slides - Place on post.
- Spray Stations - Place on straight part of post.
- Webscape Climbers - Place on center post.
- Fitness Clusters - Place on post. Each individual fitness component requires a label.

Place Sticker  
44" to 50" above  
Post end



### C-SPRING RIDERS - Use sticker with laminate overlay

For all components with a C-Spring, place the CPSIA sticker on the inside turn of one spring.

Place Sticker  
here



## CPSIA Labels

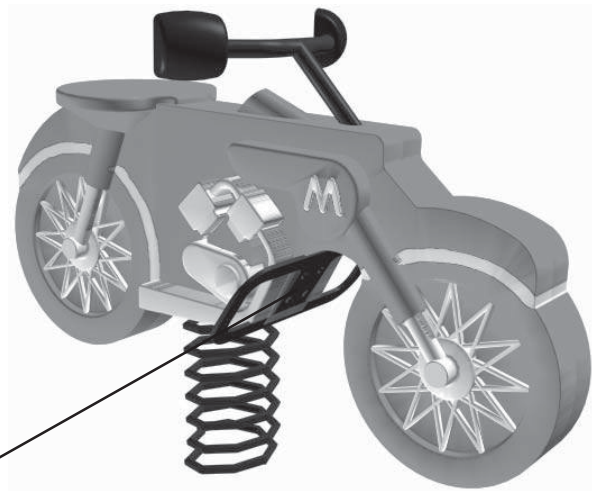
### COIL SPRING RIDERS - Use metal tag or sticker with laminate overlay

For all components with a Coil Spring rider with a BOLTING PLATE, place the CPSIA sticker with laminate overlay on the bolting plate between the bolts. If Coil Spring rider has no bolting plate, attach a metal tag directly to Rockite on underside area of rider. Coil Spring Rider category includes:

All Coil Spring Riders - Attach sticker with laminate overlay to Bolting plate OR metal tag to Rockite on underneath side.

Saddle Seat (Coil Spring) - Attach metal tag to Rockite on underneath side.

Surfer - Attach metal tag to Rockite on underneath side.



Place Sticker here



Place Metal Tag on underneath side



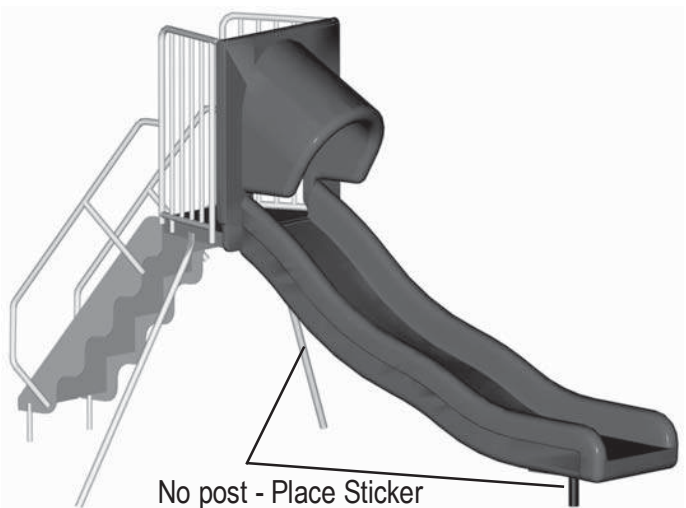
# MIRACLE CPSIA Labels

## FREESTANDING SLIDES - Use metal tag or sticker with laminate overlay

Freestanding Slides fall under 3 categories:

- Slides with exposed post - attach sticker with laminate overlay to post.
- Slides with unexposed post - attach sticker with laminate overlay to brace or leg.
- Slides with NO post, leg or brace - attach metal tag to stair side or on Rockite slide.

Exposed post -  
Place Sticker  
here



No post - Place Sticker  
on Leg or Brace

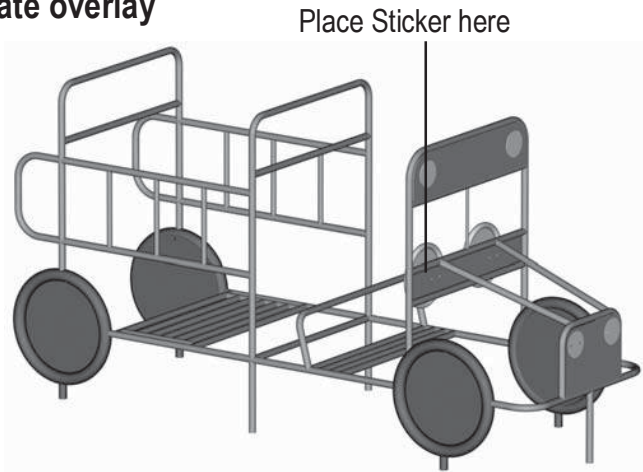


No Exposed Post/Brace/Leg  
- Place Metal Tag on Stairs  
or Rockite Slide

## CPSIA Labels

### VEHICLE CLIMBER - Use sticker with laminate overlay

For all Vehicle Climbers place sticker with laminate overlay on outside of dash board.



### 100% ROCKITE COMPONENTS - Use metal tag

Some Miracle components are constructed completely of Rockite including:

Boulder Ridge Rock Walls - Attach to one corner 4" above finished grade

Ground mounted Crawl Tube - Attach to entry panel

Freestanding Bongo at ground level - Attach to underside "skirt"



Place Metal Tag in one corner, 4" above finished grade



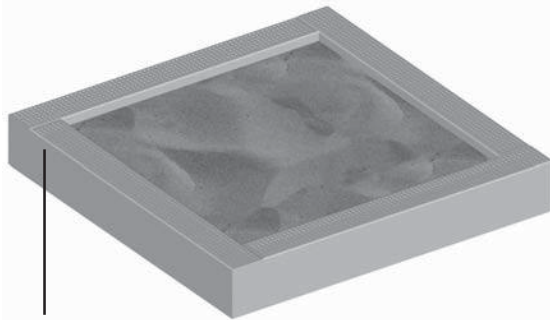
## SANDBOXES - Use metal tag or sticker with laminate overlay

Sandboxes include:

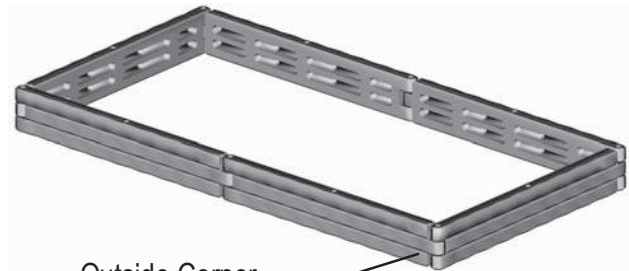
Mira-Therm2 Sandbox - Attach sticker with laminate overlay to painted metal wall side.

Cloverleaf Sandbox - Attach sticker with laminate overlay to leg.

Timber Sandbox - Attach metal tag directly to Rockite at outside corner.



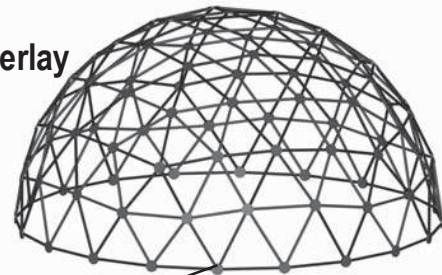
Metal wall side -  
Place Sticker here



Outside Corner -  
Place Metal  
Tag here

## GEODESIC CLIMBER - Use sticker with laminate overlay

Place sticker on underside plate, near ground level.



Place Sticker here

## AFTER MARKET SERVICE PARTS - Use metal tag or sticker with laminate

All after market service parts will come with a separate installation guide that instructs installers to refer to this CPSIA document for correct placement, dependent upon order. This secondary installation guide is located on the internal and installer websites.



# Post-Installation Check List

D70165 Rev. B

Date of Completed Install: \_\_\_\_\_

Work Order #: \_\_\_\_\_

Customer: \_\_\_\_\_

Project: \_\_\_\_\_

City/State: \_\_\_\_\_

- ☐ All labels properly affixed (CPSIA, age appropriate, top of surfacing and warning).
- ☐ ALL CPSIA embossed labels for composite structures photographed for evidence of proper installation on equipment\*.
- ☐ All bolts, nuts, and set screws checked for tightness. All excess bolt threads cut and peened smooth to expose no more than two threads.
- ☐ Unit has been wiped down to eliminate dust/dirt (soap and water may be necessary).
- ☐ Equipment checked for installation guideline compliance.
- ☐ Site cleaned with all construction trash removed.
- ☐ Owner notified that installation was done according to manufacturer's specifications. Note any exceptions, e.g. that the owner must still provide safety surface, etc.
- ☐ Touch-up paint, torque drive bits and spare parts left with the owner.
- ☐ Owner reminded that equipment should not be used for 72 hours after installation to allow concrete to cure (if applicable) and/or protective surfacing must be installed.
- ☐ If installation was not done according to specifications, please indicate changes and describe reason for doing so, and contact information for the person(s) who authorized the change.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- ☐ Authorized by: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_
- ☐ Installer Signature \_\_\_\_\_ Date: \_\_\_\_\_
- ☐ Signed by owner or authorized customer \_\_\_\_\_ Date: \_\_\_\_\_

**\*RETURN COMPLETED CHECKLIST AND PHOTOGRAPHS to MIRACLE CUSTOMER SERVICE by mail at 878 E. Hwy 60, Monett, MO 65708 or electronically to [customer.service@miraclerec.com](mailto:customer.service@miraclerec.com).**

**For questions contact Customer Service call 1-800-523-4202.**



**1-800-523-4202**

[www.miracle-recreation.com](http://www.miracle-recreation.com)