

IMPORTANT NOTES: Read First

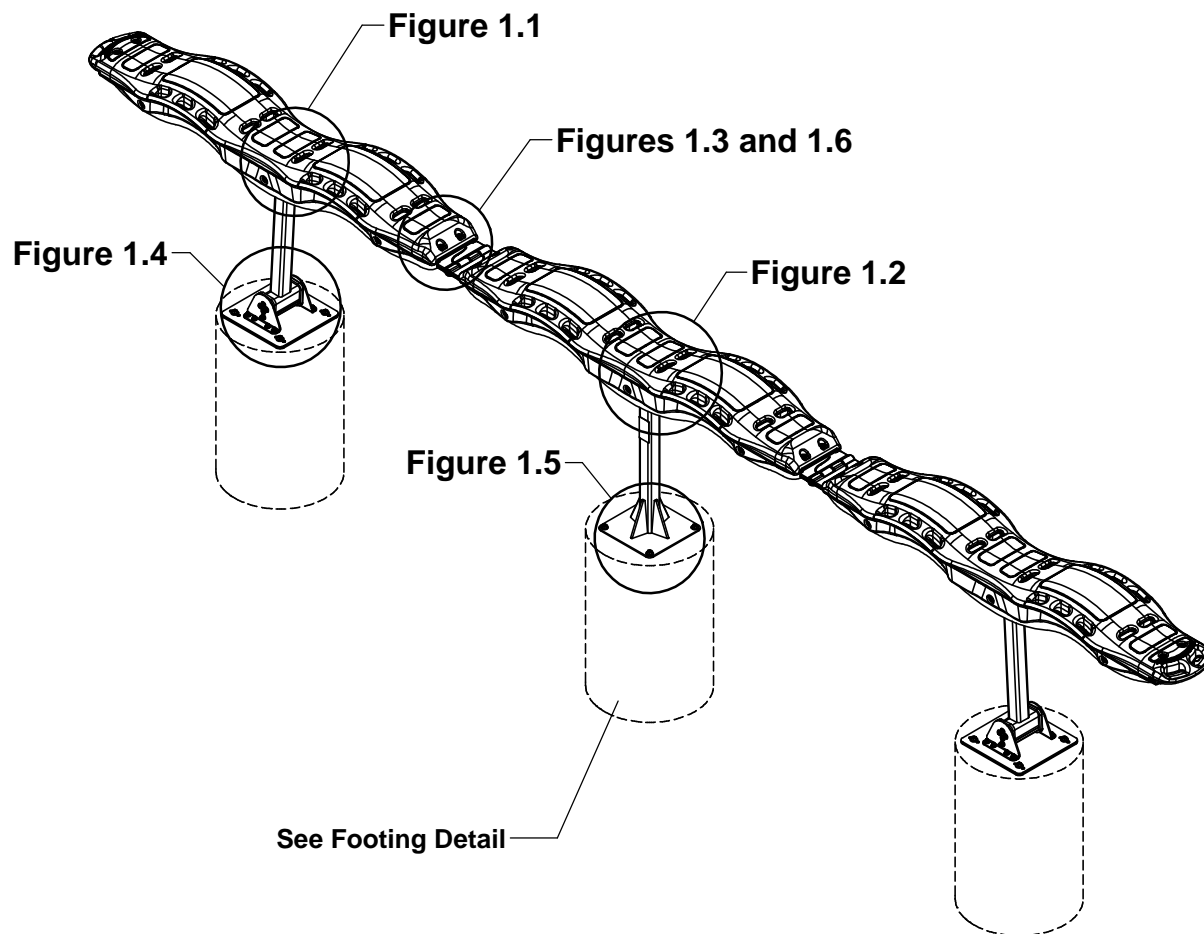
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

(D) All bolt threads protruding beyond the nut must be cut and de-burred until end is smooth to the touch. Sharp edges and/or points of any kind must be eliminated. No more than two threads may be exposed beyond the end of the nut.

FIGURE 1
Tidal Wave



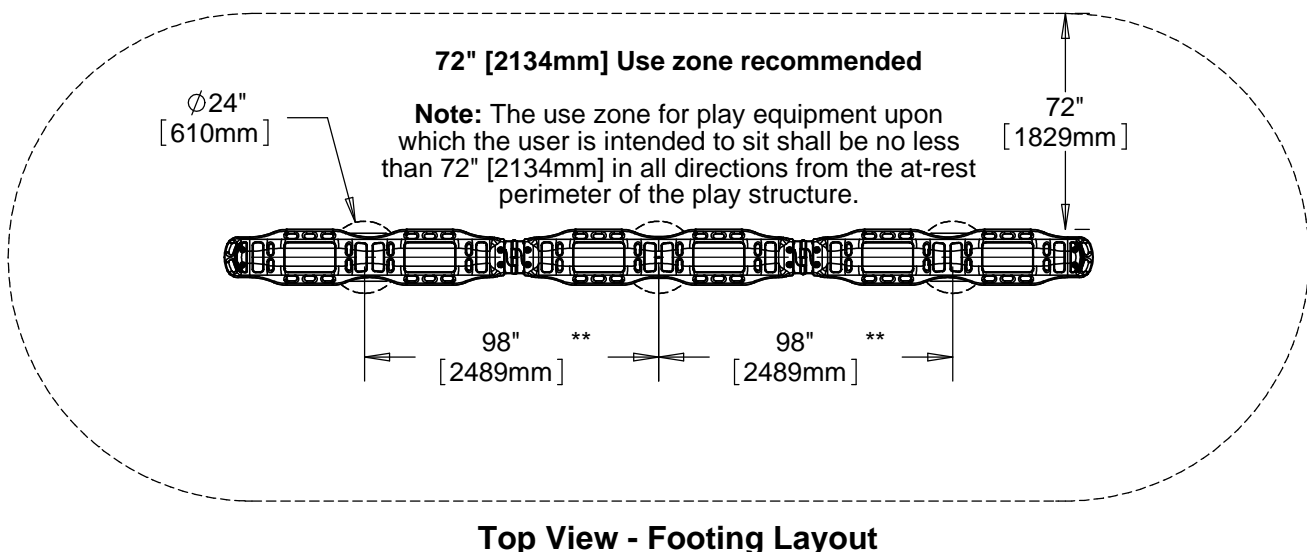
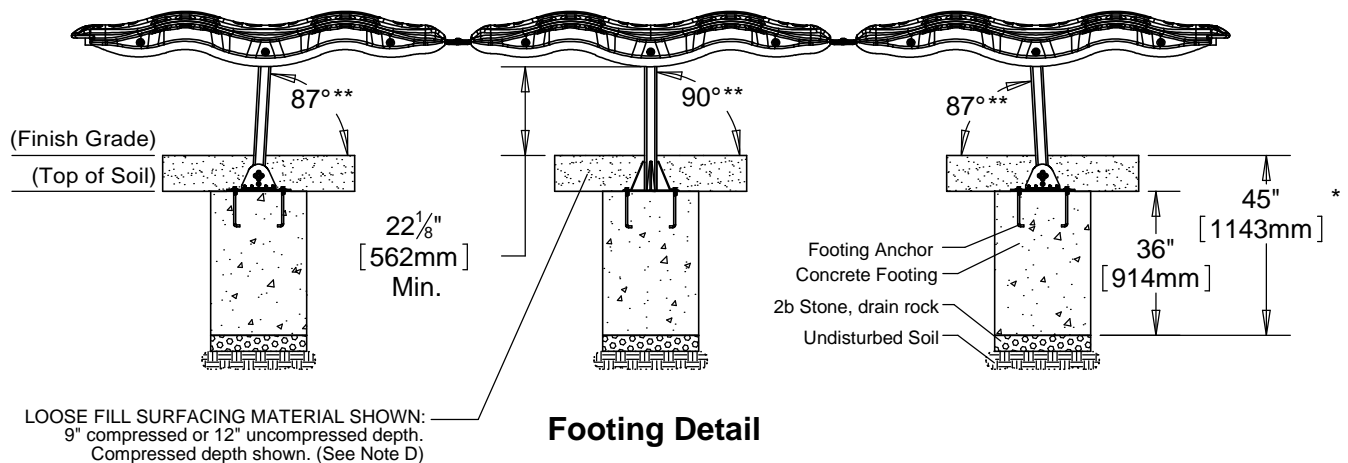
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (3) Ø 24" footing holes. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** **IMPORTANT:** Maintaining these angles and dimensions on a level grade are essential to the proper operation of the Tidal Wave.



Step 2

Use the Tidal Wave Base Plate as a template to create a plywood template for the placement of anchor bolts. Attach anchor bolts to template as shown in Figure 2. (**Note:** Plywood not supplied.)

Step 3

Pour concrete footing and level template on surface. Set anchor bolts in concrete. For end footings, allow approximately 1-1/8" [29mm] of thread to protrude from the concrete as shown in Figure 3. For center footing, allow approximately 7/8" [22mm] of thread to protrude from the concrete as shown in Figure 4. Allow 72 hours to cure before proceeding to next step. (See Note B)

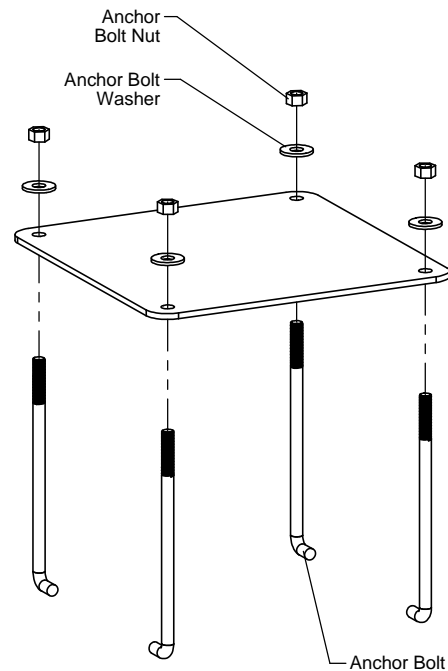


FIGURE 2

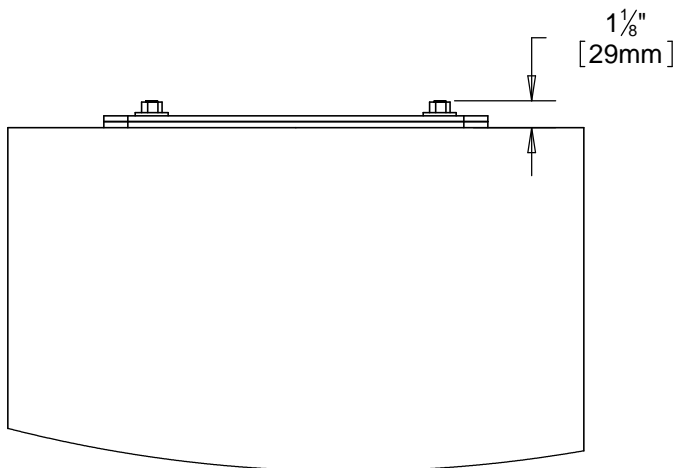


FIGURE 3

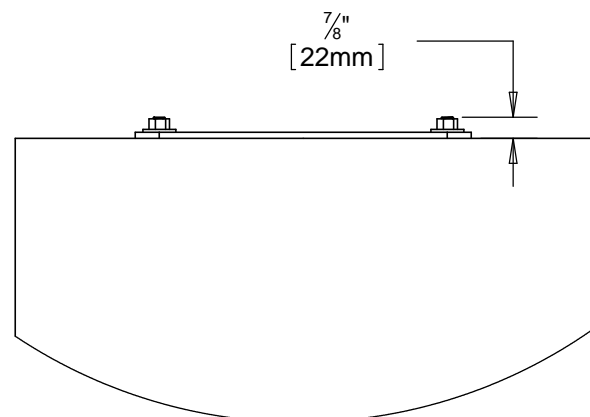


FIGURE 4

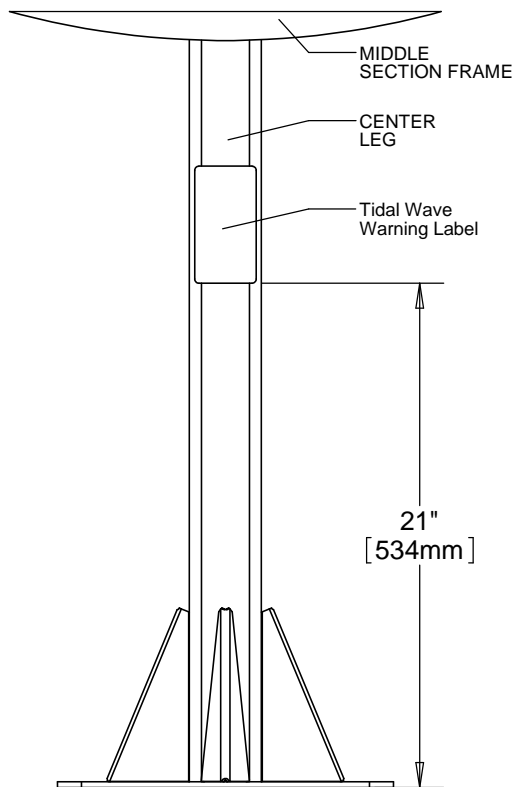


FIGURE 5

Step 4 (Factory Assembled)

Apply the Tidal Wave Warning Label where visible to users as shown in Figure 5.

Step 5 (Factory Assembled)

Assemble Tidal Wave Leg components as shown in Figure 6. (See Note A)

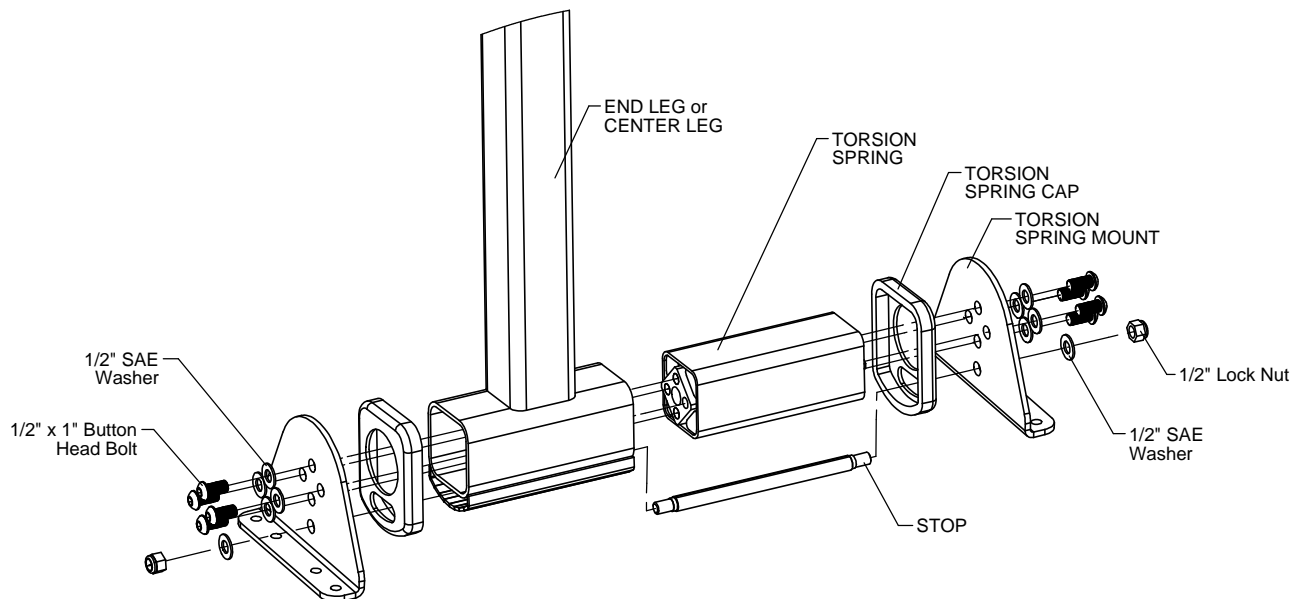


FIGURE 6

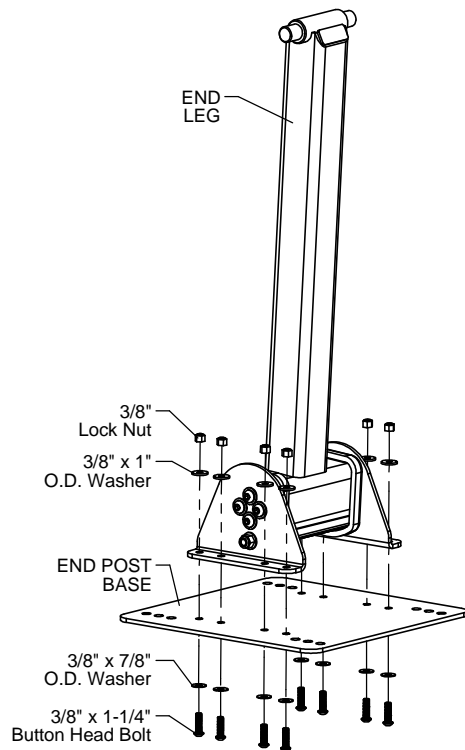


FIGURE 7

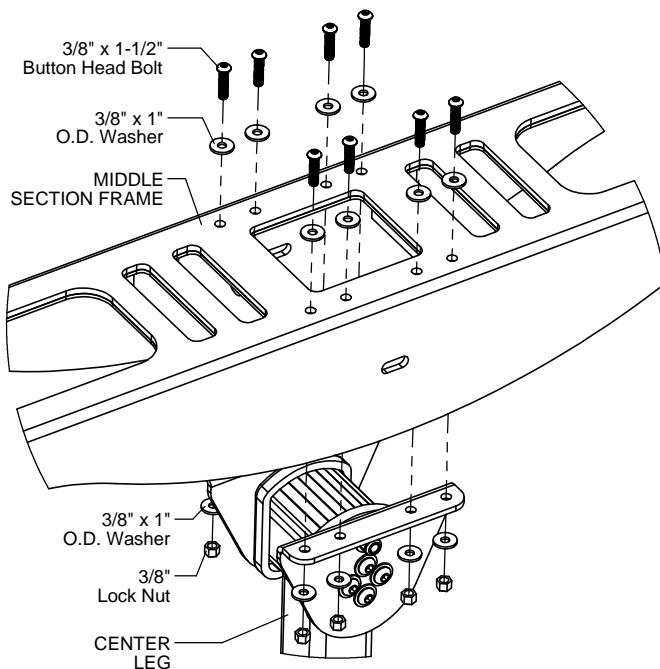


Figure 1.2

Step 6 (Factory Assembled)

Attach End Leg to End Post Base as shown in Figure 7. (See Note A)

Step 7 (Factory Assembled)

Attach End Leg to End Section Frame as shown in Figure 1.1. (See Note A)

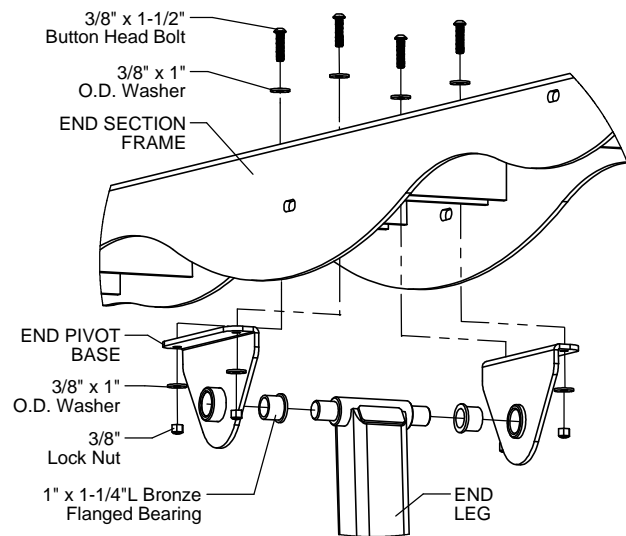


Figure 1.1

Step 8 (Factory Assembled)

Attach Center Leg to Middle Section Frame as shown in Figure 1.2. (See Note A)

Step 9 (Factory Assembled)

Attach Hinge to Section Frame as shown in Figure 1.3. (See Note A)

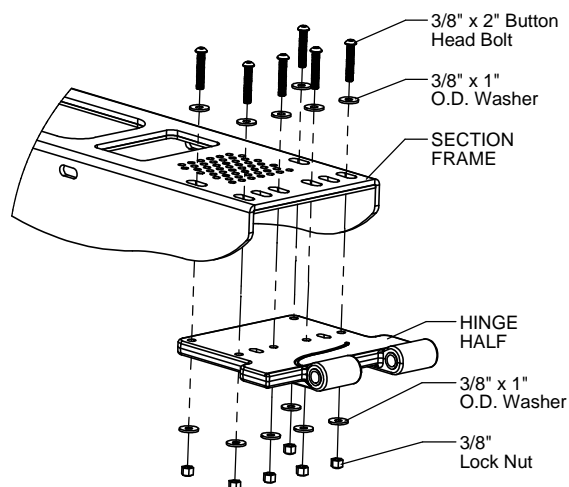


Figure 1.3

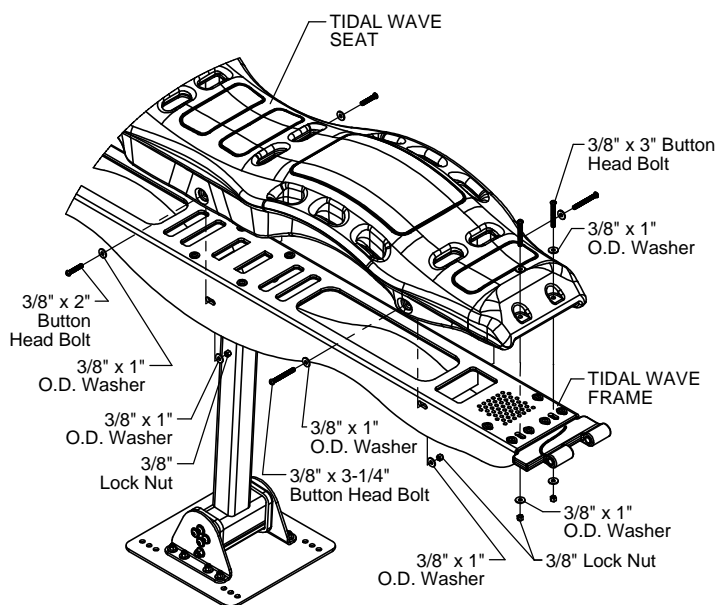


FIGURE 8

Step 10 (Factory Assembled)

Attach hinge sides of Tidal Wave Frame to Tidal Wave Seat as shown in Figure 8. (See Note A)

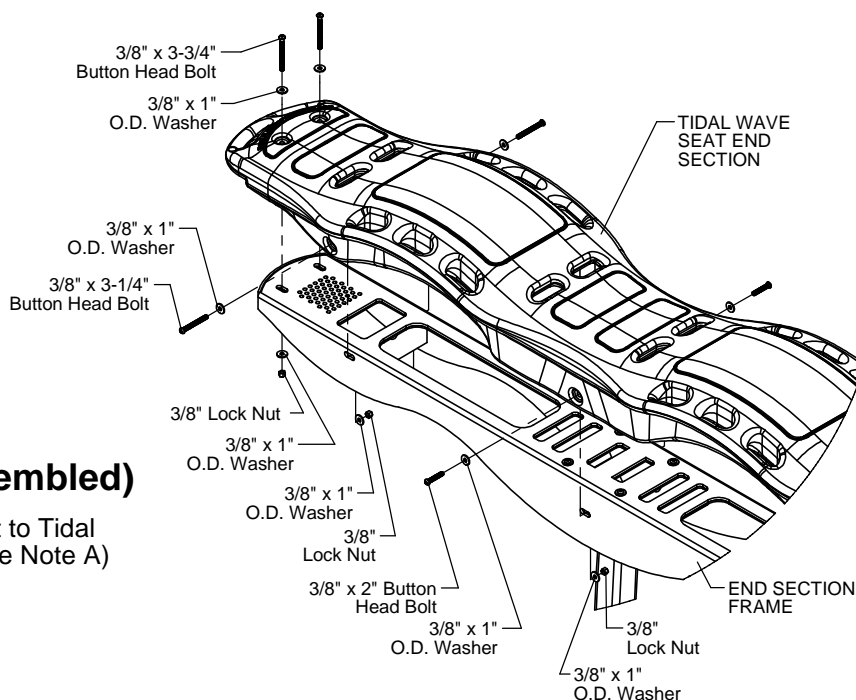


FIGURE 9

Step 11 (Factory Assembled)

Attach handle sides of Tidal Wave Seat to Tidal Wave Frame as shown in Figure 9. (See Note A)

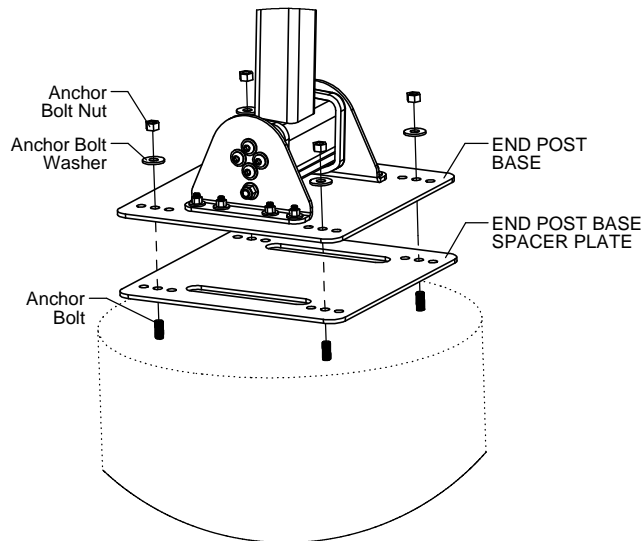


Figure 1.4

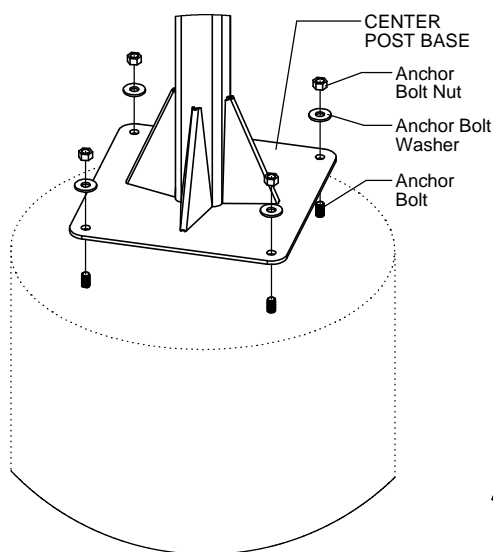


Figure 1.5

Step 12

Attach Tidal Wave Legs to Anchor Bolts as shown. For End Footings, refer to Figure 1.4. For Center Footings, refer to Figure 1.5. (See Note A)

NOTE: Additional holes in end post base plates allow for adjustment to ensure proper operation of Tidal Wave.

Step 13

Attach Hinge Halves together with Hinge Pins as shown in Figure 1.6. (See Note A)

NOTE: Adjust Tidal Wave as noted in Step 12 to match critical angles and dimensions given in Footing Detail and Footing Layout.

Step 14

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 15

Place appropriate compliant protective surfacing under and around Tidal Wave. (See Note C)

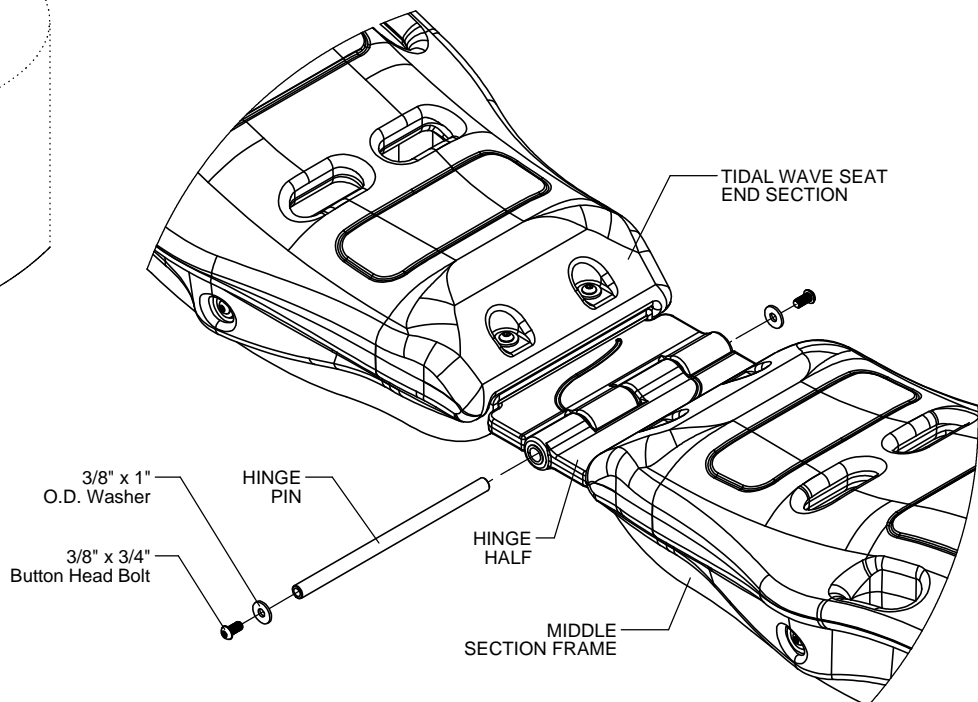


Figure 1.6

TIDAL WAVE INSTALLATION INSTRUCTIONS

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Specifications

TIDAL WAVE SEAT MIDDLE & END SECTION:

Shall be manufactured from UV-stabilized LLDPE (linear low-density polyethylene) with an average wall thickness of 1/4".

TIDAL WAVE MIDDLE & END SECTION FRAME:

Shall be punched & formed from 12 gauge sheet steel. The tidal wave frame sections shall be Play-Tuff™ coated after fabrication.

TIDAL WAVE CENTER LEG:

Shall be fabricated from a 3" x 1/4" square tubing leg, a 1/4" HR sheet steel center post base, 10 gauge HR sheet steel center leg gussets, a 10 gauge HR sheet steel torsion spring shroud & a 3-1/2" x 3/16" square tubing housing. The Tidal Wave Center Leg will have a multi-stage baked-on powder coat finish.

TIDAL WAVE END LEG:

Shall be fabricated from 3" x 1/4" square tubing leg, a 3-1/2" x 3/16" square tubing housing, a 10 gauge HR sheet steel torsion spring shroud, 1/8" HR strip steel end leg caps & a steel end pivot axle. The Tidal Wave End Leg will have a multi-stage baked-on powder coat finish.

TORSION SPRING MOUNT:

Shall be bent and formed from 1/4" HR sheet steel. The torsion spring mount will have a multi-stage baked-on powder coat finish.

TIDAL WAVE END PIVOT BASE WELDMENT:

Shall be made of punched and formed 1/4" HR sheet steel & a steel pivot bearing sleeve. The Tidal Wave End Pivot Base Weldment will have a multi-stage baked-on powder coat finish.

TIDAL WAVE END POST BASE & SPACER PLATE:

Shall be precision laser cut from 1/4" HR sheet steel. The Tidal Wave End Post Base & Spacer Plate will have a multi-stage baked-on powder coat finish.

TORSION SPRING CAP:

Shall be made from 3/4" UHMW polyethylene sheet plastic specially formulated for UV resistance.

TIDAL WAVE HINGE:

Shall be precision die-cast from a high-strength aluminum alloy. Bronze bushings shall be inserted into hinge barrel.

TIDAL WAVE HINGE PIN & STOP:

Shall be machined from stainless steel round bar.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY
AE-0066	Tidal Wave End Post Base Spacer Plate	2
IE-0009	Tidal Wave Hinge Pin	2
9103032-TR	Bolt Button Head 3/8" x 3/4"	4
9175393	Bolt Anchor 1/2" x 9-1/2" w/ Washer and Nut	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

Assembled Parts List

Part #	DESCRIPTION	QTY
AE-0065	Tidal Wave End Post Base	2
BE-0061	Torsion Spring Mount	6
CE-0031	Tidal Wave Middle Section Frame	1
CE-0032	Tidal Wave End Section Frame	2
DE-0002	Tidal Wave Seat Middle Section	1
DE-0003	Tidal Wave Seat End Section	2
EE-0103	DRA-50 Torsion Spring Cap	6
FS-PC2488-CLEG	Tidal Wave Center Leg	1
FS-PC2488-ELEG	Tidal Wave End Leg	2
FS-PC2488-PBASE	Tidal Wave End Pivot Base Weldment	4
GE-0004	Tidal Wave Hinge	4
HE-0004	50 x 120 Torsion Spring	1
HE-0005	50 x 200 Torsion Spring	2
IE-0012	Tidal Wave Stop 200	2
IE-0013	Tidal Wave Stop	1
372002	Tidal Wave Warning Label	1
561000	Bronze Flanged Bearing 1" x 1-1/4"L	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	16
9103092-TR	Bolt Button Head 3/8" x 2"	30
9103132	Bolt Button Head 3/8" x 3"	8
9103142-TR	Bolt Button Head 3/8" x 3-1/4"	12
9103162-TR	Bolt Button Head 3/8" x 3-3/4"	4
9105052	Bolt Button Head 1/2" x 1"	24
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	156
9333042	Washer Flat 3/8" x 7/8" O.D.	16
9345002	Washer Flat SAE 1/2"	30
9413002	Nut Lock 3/8"	86
9415132	Nut Lock 1/2"	6

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Manufactured by Krauss Craft, Inc.
www.playcraftsystems.com

For Customer Service Call
800.333.8519 (U.S.A.) or
541.955.9199 (International)

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