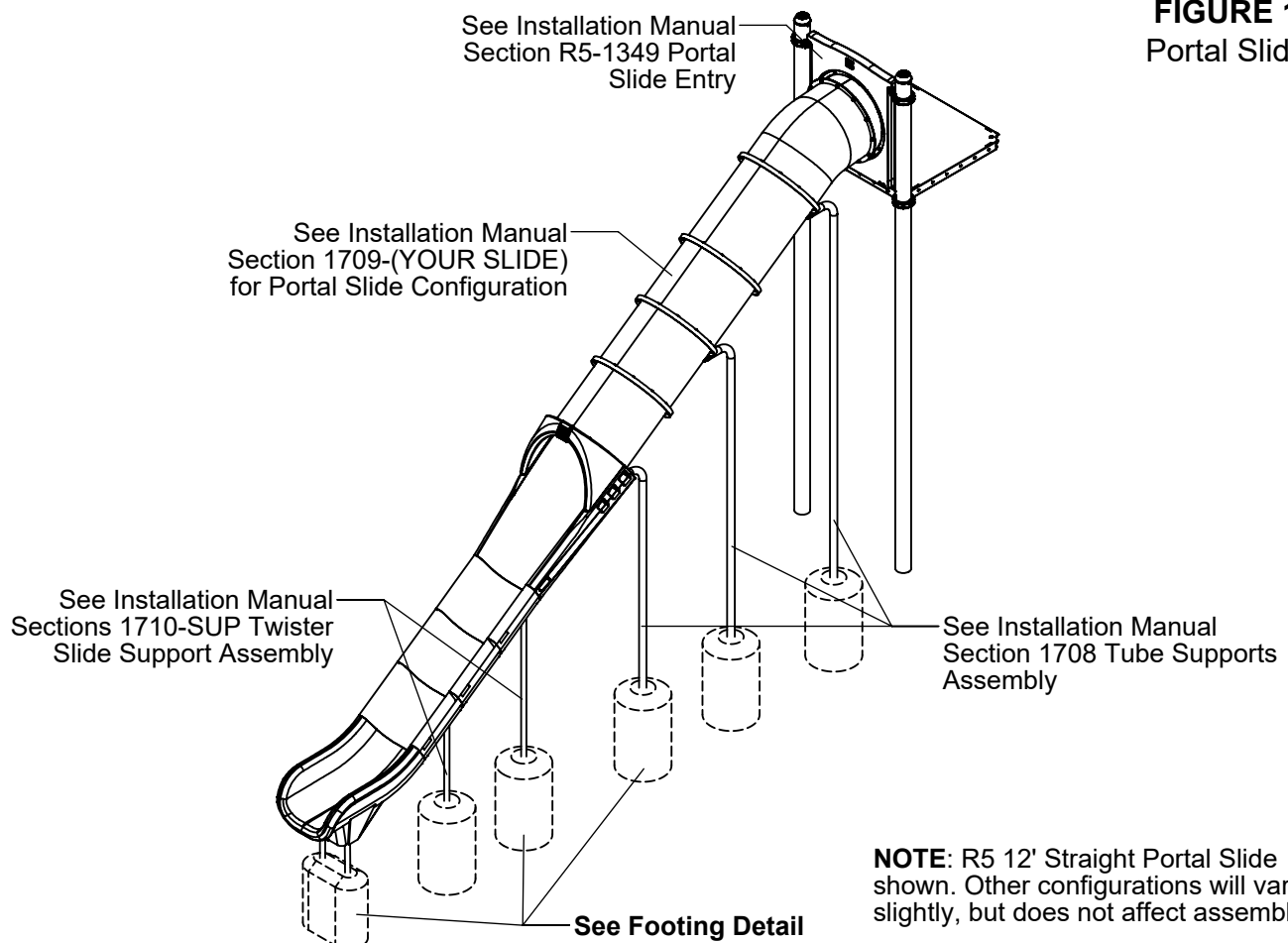


IMPORTANT NOTES: Read First

- (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) Refer to Installation Manual for R5-1349 Portal Slide Entry, 1708 Tube Supports Assembly, 1710 Twister Slide, 1710-SUP Twister Slide Support Assembly and 1709-(YOUR SLIDE) Portal Slide Configuration installation instructions.
- (D) For slides with an entry elevation of 48" [1219mm] or greater, the exit height must be between 7" [180mm] and 15" [380mm] from finish grade. Exit region must always have a downward slope between 0° and 4°.
- (E) 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. A maximum of two threads may be exposed beyond the end of the nut.
- (F) 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.

FIGURE 1
Portal Slide



Step 1

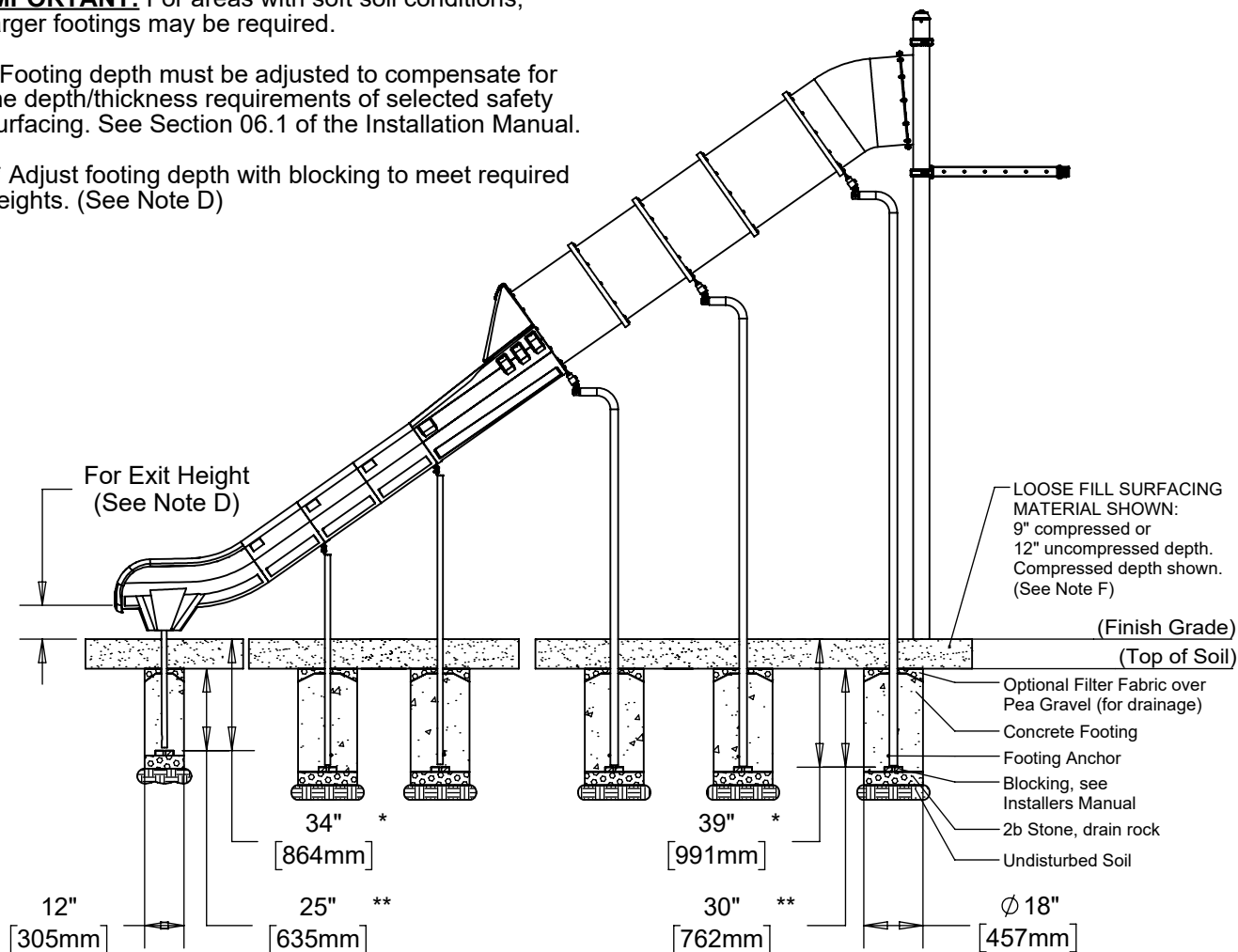
Refer to Footing Layout and mark footing hole locations. Dig the appropriate number of \varnothing 18" footing holes and one 12" x 24" footing hole. Refer to Footing Detail for depth and details.

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

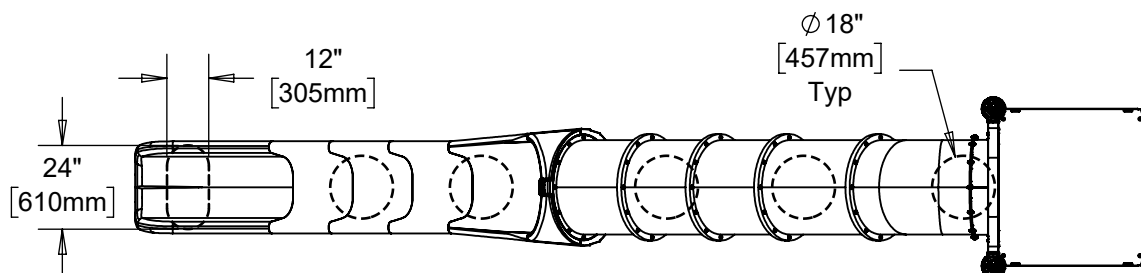
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** Adjust footing depth with blocking to meet required heights. (See Note D)

Elevation View - Footing Detail



Top View - Footing Layout



Step 2

Assemble Portal Slide Entry to Deck.
(See Note C)

Step 3

Attach Tube to Transition Extension as
shown in Figure 2. (See Note A)

Step 4

Attach remaining Tube sections as
shown in Figure 3. For Tube connections
with Tube Support refer to Figure 4.
(See Notes A & C)

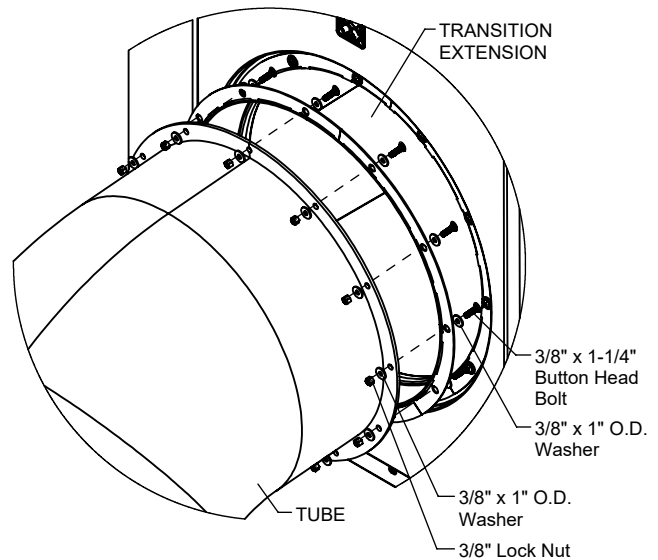


FIGURE 2

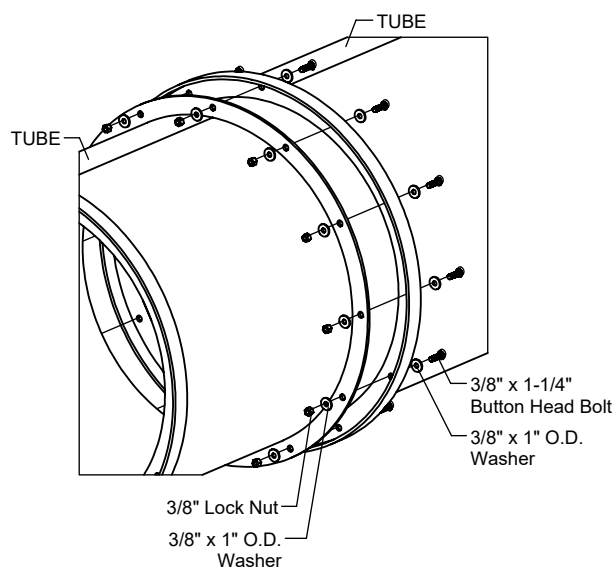


FIGURE 3

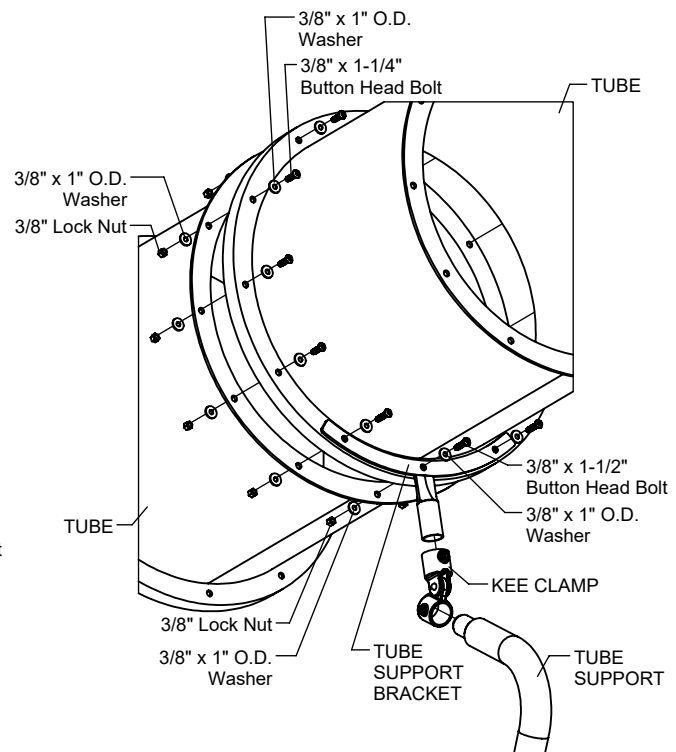


FIGURE 4

Step 5

Attach Tube onto Tube to Twister Transition Assembly as shown in Figure 5. For Tube connections with Tube Support refer to Figure 6. (See Notes A & C)

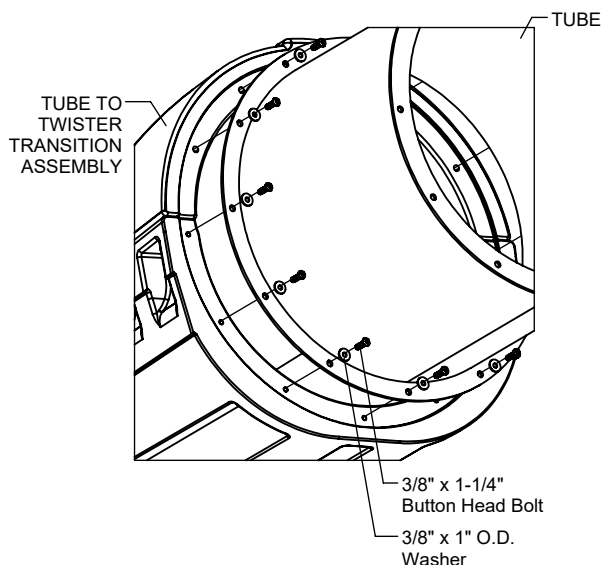


FIGURE 5

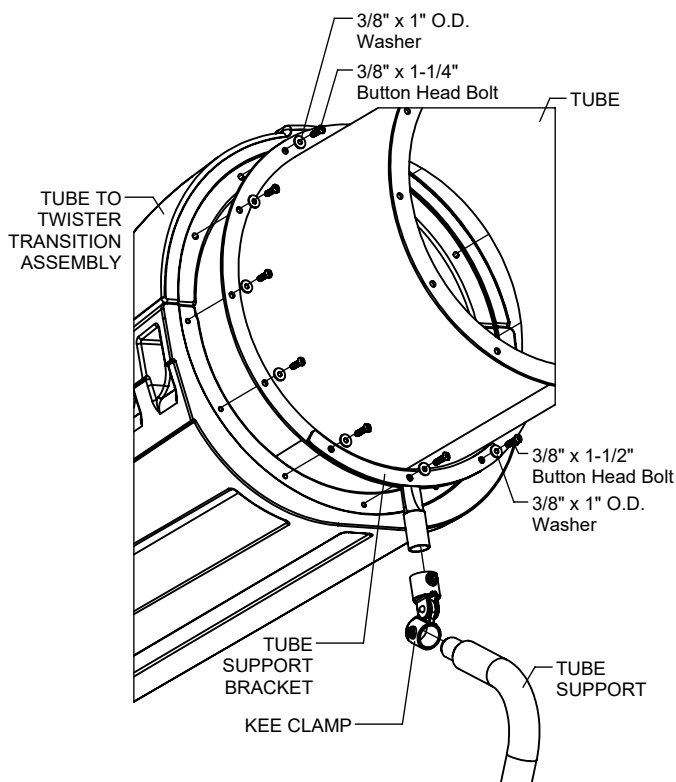


FIGURE 6

Step 6

Attach Twister Section to Twister Section as shown in Figure 7. For Twister connections with Twister Support refer to Figure 8. (See Notes A & C)

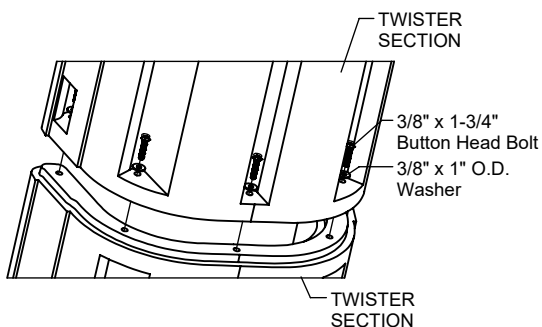


FIGURE 7

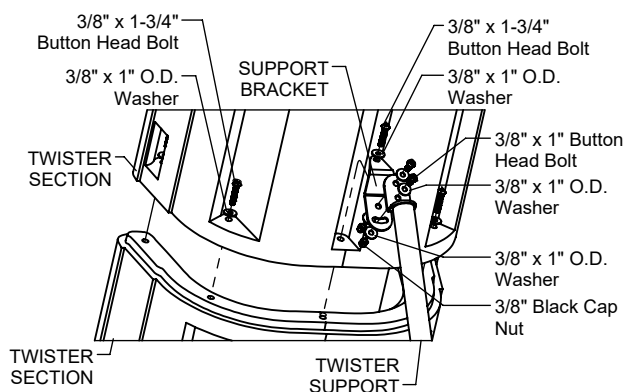


FIGURE 8

Step 7

Place Single Slide Leg into footing hole and attach Single Slide Leg to Exit Section as shown in Figure 9. (See Note A)

Step 8

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

Step 9

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 10

Place required protective surfacing under and around Portal Slide. (See Note F)

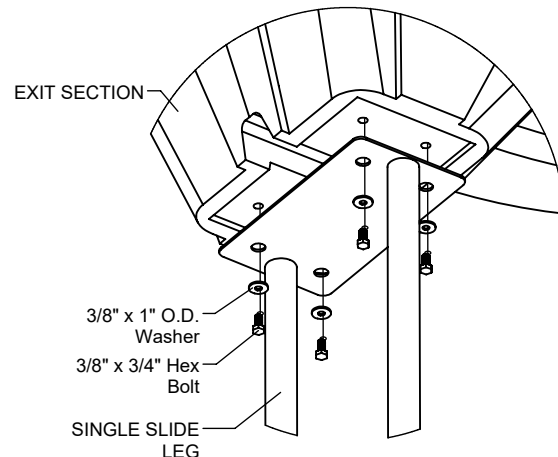


FIGURE 9

Specifications

SLIDE SECTIONS:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

TUBE & PORTAL SLIDE SUPPORTS:

Shall be an assembly with two components. The Leg shall be fabricated using 2.375" O.D. 10 gauge steel tubing and 1.660" O.D. 11 gauge steel tubing with welded 1/4", 3/16" thick steel caps, and $\phi 5/8$ " steel rod and will have a multi-stage baked-on powder coat finish. The Bracket shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 1/4" thick steel plate and will have a multi-stage baked-on powder coat finish.

Specifications

TWISTER SLIDE SUPPORTS:

Shall be an assembly with two components. The Leg shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 3/16" thick steel bracket and $\phi 5/8$ " steel rod and will have a multi-stage baked-on powder coat finish. The Bracket shall be punched and formed from 3/16" thick steel and will have a multi-stage baked-on powder coat finish.

SLIDE LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel plate and will have a multi-stage baked-on powder coat finish.

HARDWARE:

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

PORTAL SLIDE INSTALLATION INSTRUCTIONS

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Parts List

GENERAL SLIDE LAYOUT		
Part #	DESCRIPTION	QTY
S-1349-R5	Portal Slide Entry R5	1
Varies	Tube MF Section	Varies
Varies	Tube MM Section	1
DE-0083	Tube to Twister Slide - Assembly	1
Varies	Twister Slide Section	Varies
DE-4339-EXT	Twister Slide - Exit	1

NOTE: The BOM above represents a general portal slide layout from top of slide to exit. Quantities and configurations of the various sections is dependent on the overall Portal Slide configuration. Please reference the slide specific 1709 Portal Slide installation instructions for these quantities and configurations.

TUBE TO EXTENSION JUNCTION		
Part #	DESCRIPTION	QTY
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

TUBE TO TUBE JUNCTION		
Part #	DESCRIPTION	QTY
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

TUBE TO TUBE JUNCTION W/ SUPPORT		
Part #	DESCRIPTION	QTY
S-1708-INCL238	Spiral Tube Slide Support 2.375" O.D.	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	9
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	18
9413002	Nut Lock 3/8"	9

Parts List

TUBE TO TWISTER JUNCTION		
Part #	DESCRIPTION	QTY
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	12

TUBE TO TWISTER JUNCTION W/ SUPPORT		
Part #	DESCRIPTION	QTY
S-1708-TTT	Portal Slide Support 2.375" O.D.	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	9
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	9

TWISTER TO TWISTER JUNCTION		
Part #	DESCRIPTION	QTY
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	5
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	5

TWISTER TO TWISTER JUNCTION W/ SUPPORT		
Part #	DESCRIPTION	QTY
S-1710-SUP	Twister Slide Support Assembly	1
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

EXIT LEG		
Part #	DESCRIPTION	QTY
FS-1701	Single Slide Leg	1
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

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.



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