

## **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.

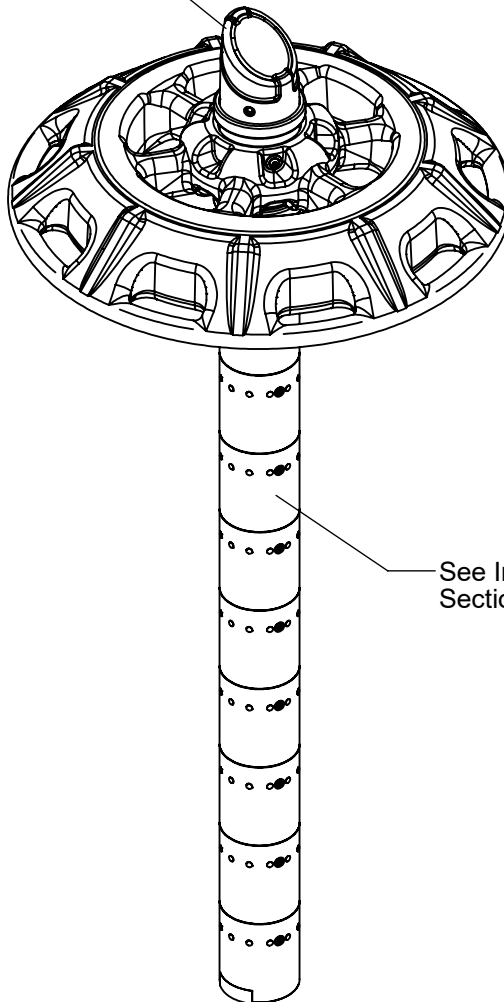
(B) Do not pour concrete until the Neutron Spinner Mini Post is completely leveled and plumbed. Concrete must be allowed to cure completely before proceeding with assembly (at least 72 hours).

(C) The maximum height of the handles (at grasping point) for ages 5-12 is 84" [2130mm] above protective surfacing.

(D) Refer to Installation Manual for RV-10000 Post and RV-21000 Top Post Cap installation instructions.

(E) 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](http://www.cpsc.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

See Installation Manual  
Section RV-21000 Top Post Cap



**FIGURE 1**  
**Neutron Spinner Mini**

See Installation Manual  
Section RV-10000 Post

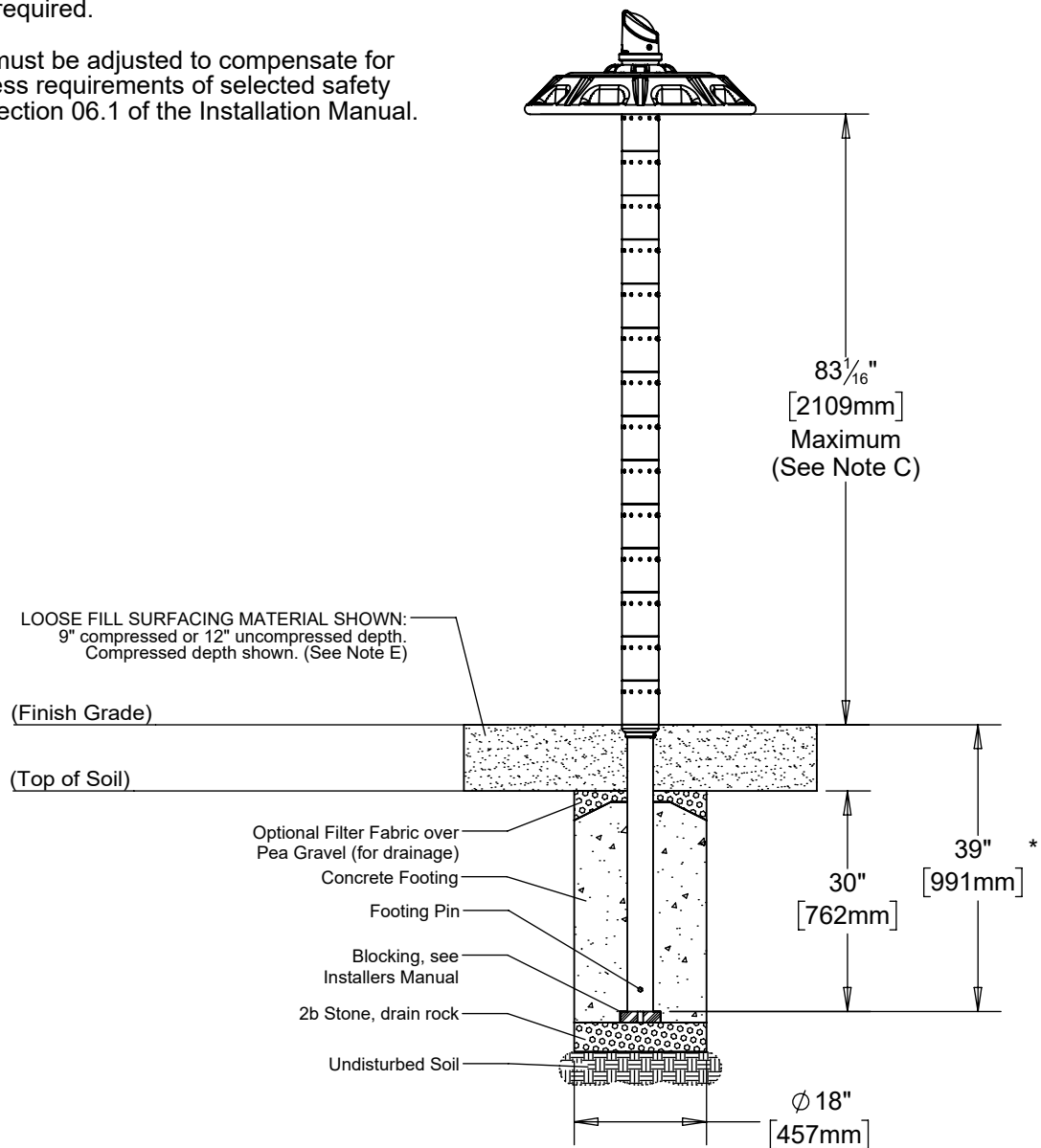
### Step 1

Refer to Footing Layout and mark footing hole location.  
Dig (1) Ø 18" 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.

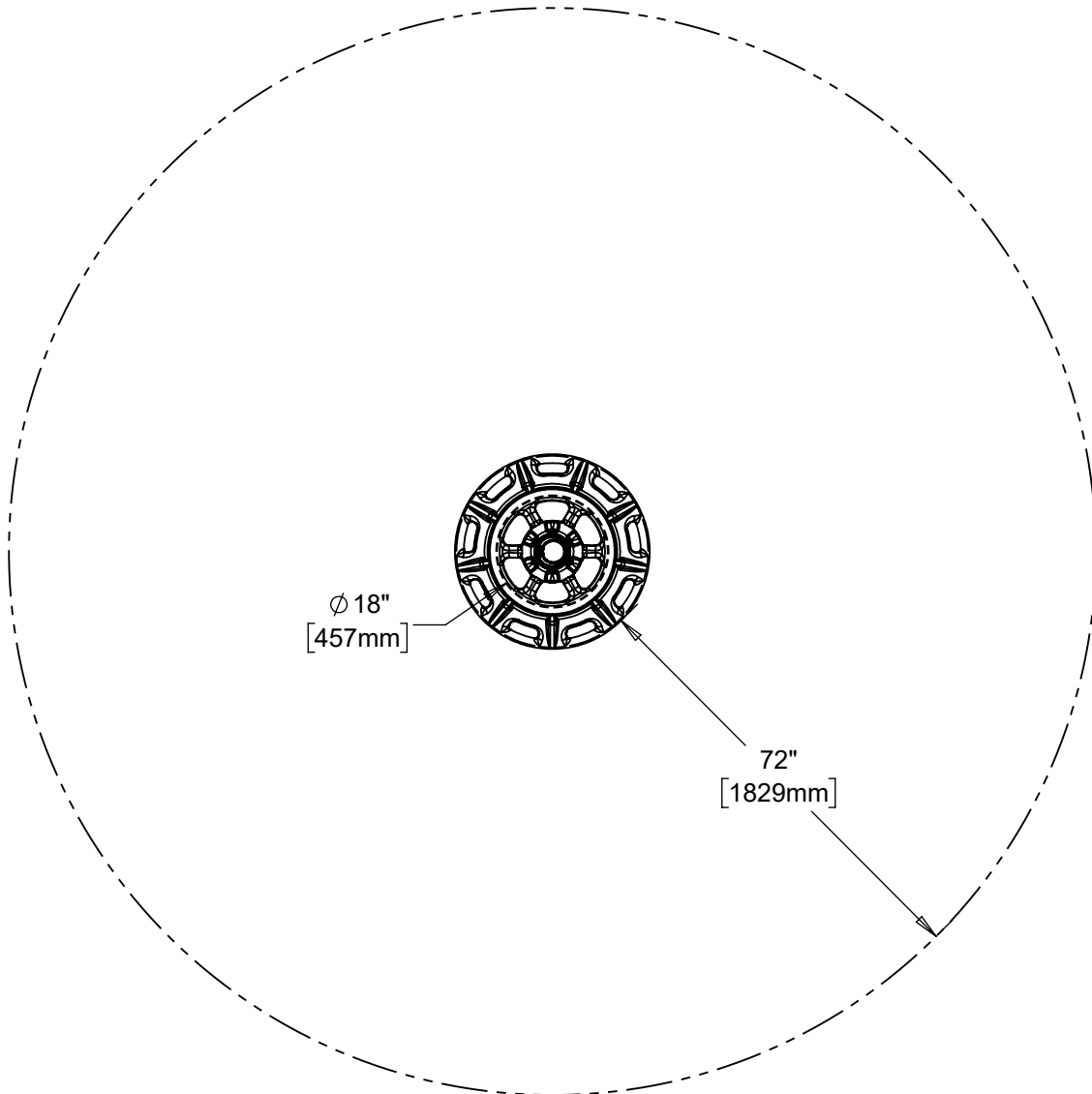
### Elevation View



**Top View - Footing Layout**

**72" [1829mm] Enchroachable use zone recommended.**  
**Refer to current ASTM 1487 standards.**

If the adjacent structure has a play surface greater than  
30" (762 mm) above surfacing, the distance between  
structures shall be no less than 108" (2473mm).



### Step 2 (Factory Assembled)

Attach Vent Plugs to Neutron Mini Handle as shown in Figure 2.

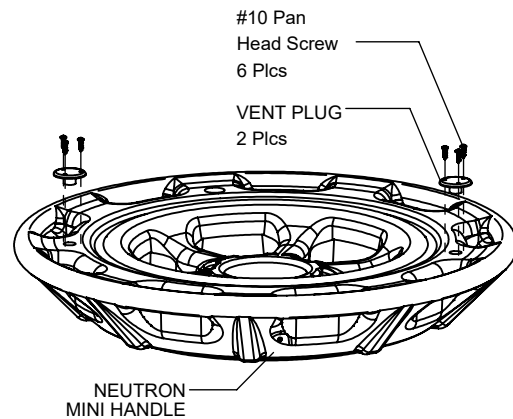


FIGURE 2

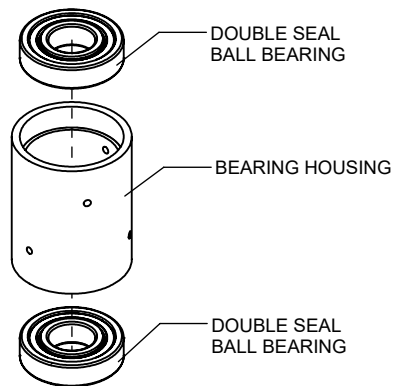


FIGURE 3

### Step 3 (Factory Assembled)

Insert Double Seal Ball Bearings into Bearing Housing as shown in Figure 3.

### Step 4 (Factory Assembled)

Attach Neutron Mini Handle to Bearing Housing as shown in Figure 4. (See Note A)

### Step 5 (Factory Assembled)

Assemble Revolution Sleeves and Bottom Cap to Neutron Spinner Mini Post as described in Installation Manual Section RV-10000 Revolution Post, Figures 2 and 3.

### Step 6

Assemble Footing Pin as described in Installation Manual Section RV-10000 Revolution Post, Figure 4.

### Step 7

Insert Hole Plugs as described in Installation Manual Section RV-10000 Revolution Post, Figure 5.

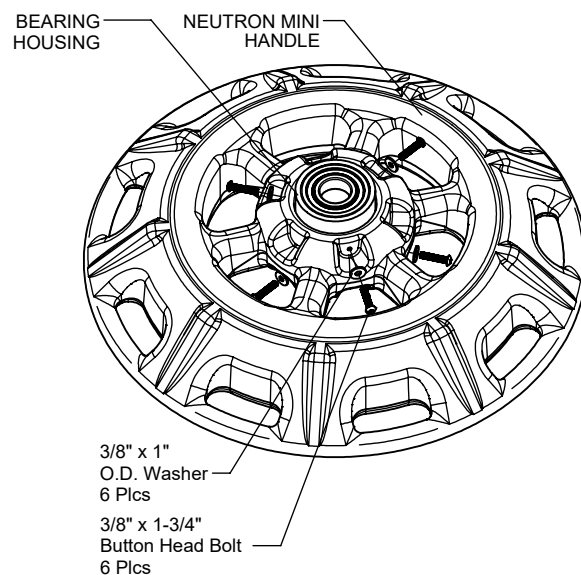
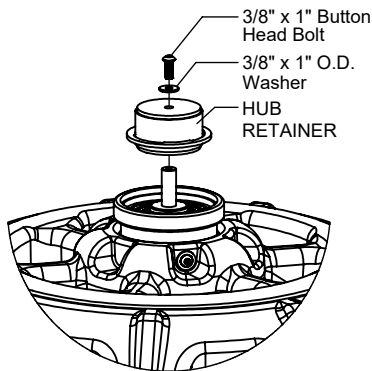


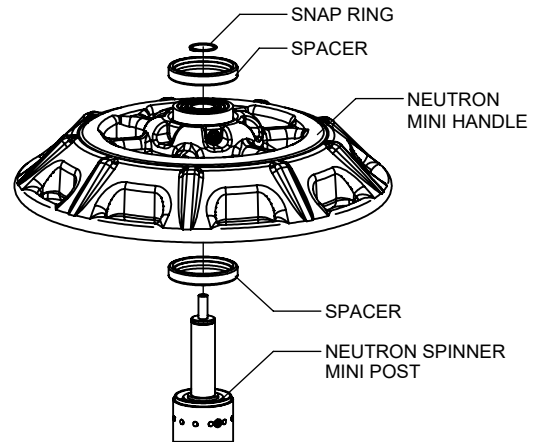
FIGURE 4

## Step 8

Attach Neutron Mini Handle to Neutron Spinner Mini Post as shown in Figure 5.



**FIGURE 6**



**FIGURE 5**

## Step 9

Attach Hub Retainer to Neutron Spinner Mini Post as shown in Figure 6. (See Note A)

## Step 10

Attach Top Cap to Hub Retainer as shown in Figure 7 and place Neutron Spinner Mini Post into footing hole. (See Notes B & D)

## Step 11

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

## Step 12

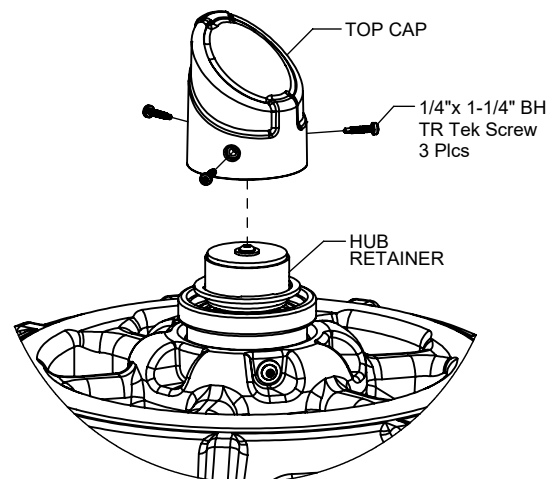
Affix "Top of Surfacing" label as described in Installation Manual Section RV-10000 Revolution Post, Figure Footing Detail.

## Step 13

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

## Step 14

Place required protective surfacing under and around Neutron Spinner Mini. (See Note E)



**FIGURE 7**

# NEUTRON SPINNER MINI RV INSTALLATION INSTRUCTIONS

**RV-1934**  
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## Parts List

Part #	DESCRIPTION	QTY
EH-0005	Neutron Spinner Post Spacer	2
FS-1934-CAP	Neutron Spinner Mini Hub Retainer	1
S-21000-RV	Revolution Post Top Cap	1
301107	Hole Plug	168
372017	Top of Surfacing Label	1
480320	External Snap Ring	1
9103052-TR	Bolt Button Head 3/8" x 1"	1
9123231	Bolt Hex 3/8" x 5-1/2"	1
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	1
9483602	Nut Hex 3/8"	1

**NOTE:** Refer to instructions S-21000-RV Revolution Post Top Cap.

## Assembled Parts List

Part #	DESCRIPTION	QTY
DF-0010	Neutron Mini Handle	1
EE-4867	Geo-Wave Vent Plug	2
FS-1934-RVPST	Neutron Spinner Mini Post 123"	1
GH-0001	Revolution Mounting Sleeve	14
GH-0003	Revolution Post Bottom Cap	1
IE-0078	Neutron Mini Bearing Housing	1
481631	Double Seal Ball Bearing	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	6
9251032	Screw SQ #10x3/4 DR PH SMS SS	6
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	30
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	6

## Specifications

### NEUTRON MINI BEARING HOUSING:

Shall be fabricated from a machined  $\phi$ 5" O.D. x 1/2" wall tube steel. The Neutron Mini Bearing Housing shall have a multi-stage baked-on powder coat finish.

### NEUTRON SPINNER MINI HANDLE:

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

### NEUTRON SPINNER MINI HUB RETAINER:

Shall be fabricated from 3.5" O.D. 11 gauge galvanized tube steel with welded 3/16" thick steel plate end caps and flange. The Neutron Spinner Mini Hub Retainer shall have a multi-stage baked-on powder coat finish.

### NEUTRON SPINNER MINI POST:

Shall be fabricated from 3.5" O.D. 11 gauge galvanized tube steel with welded 3/16" thick steel plates and machined steel spindle.

### NEUTRON SPINNER POST SPACER:

Shall be made from high density 1" thick sheet plastic specially formulated for optimum UV stability and color retention.

### VENT PLUG:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

### HARDWARE:

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

## 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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