

## IMPORTANT NOTES: Read First

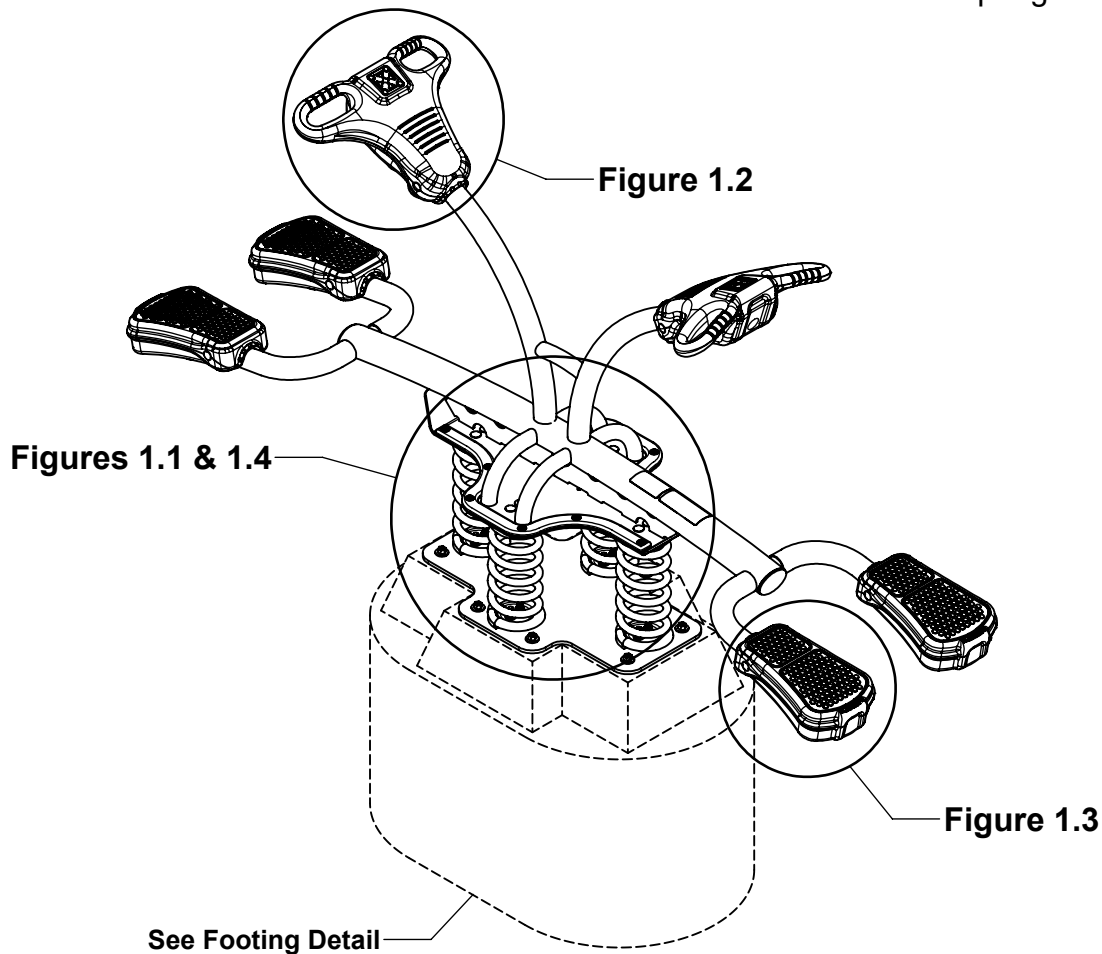
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) 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.

(D) 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.

**FIGURE 1**  
Spring Fling Duo



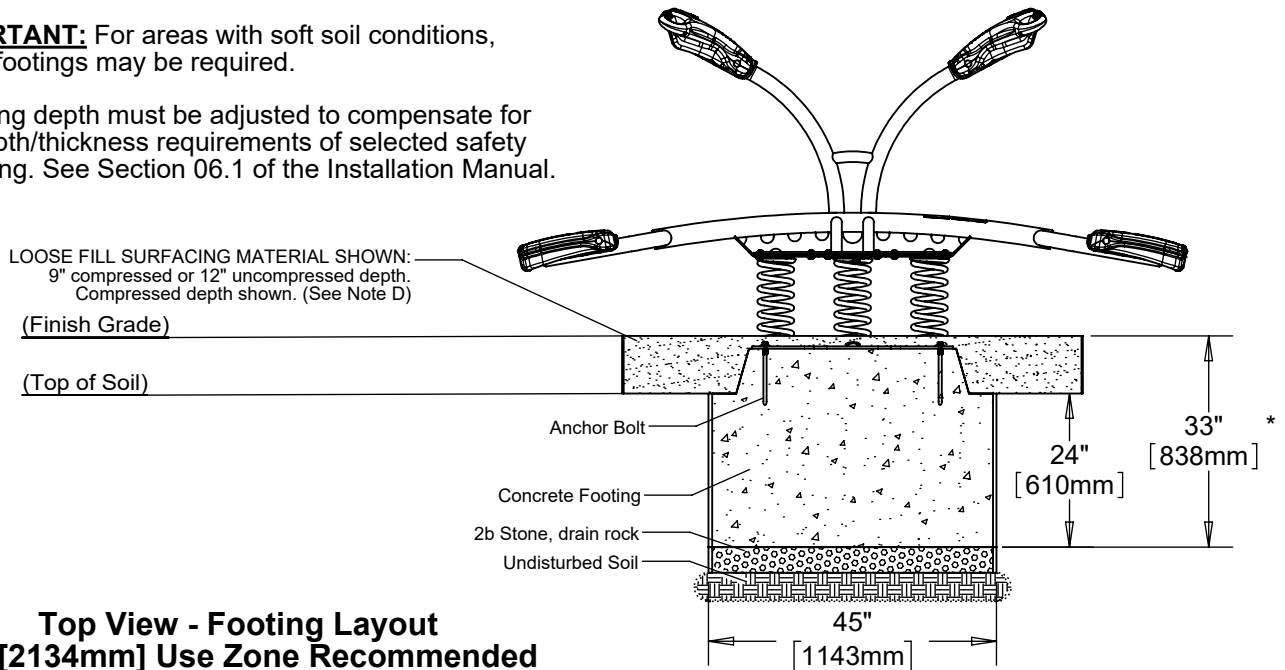
### Step 1

Refer to Footing Layout and mark footing hole location. Dig (1) 45" x 28" oval footing hole. Refer to Footing Detail for depth and details.

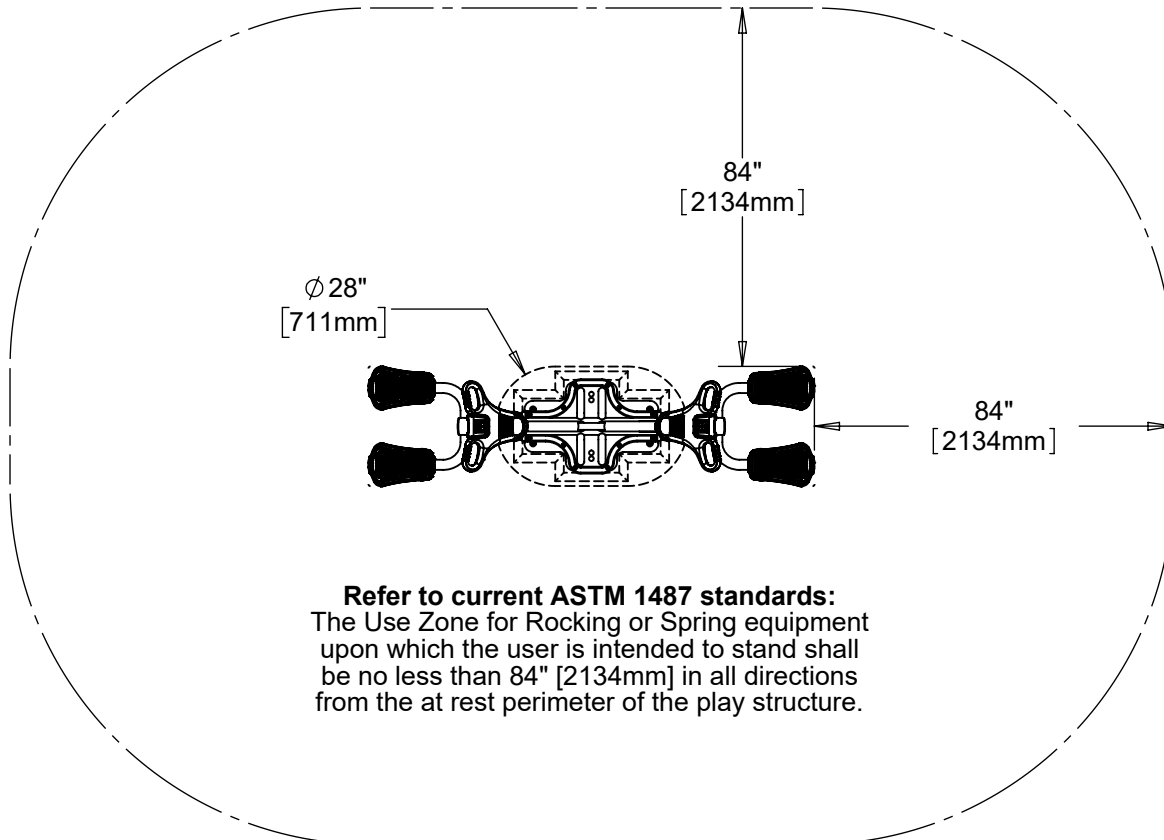
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

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

Footing Detail



Top View - Footing Layout  
84" [2134mm] Use Zone Recommended



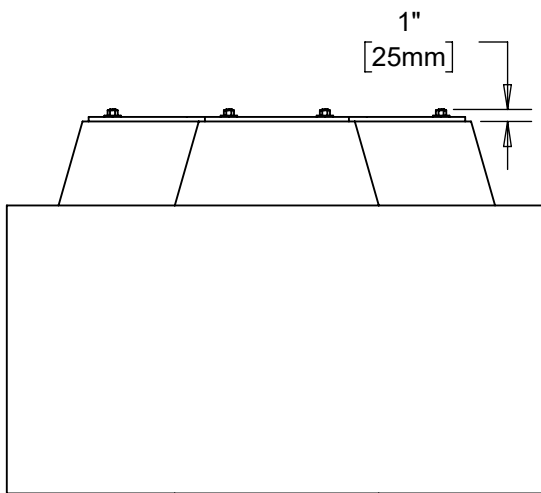
**Refer to current ASTM 1487 standards:**  
The Use Zone for Rocking or Spring equipment upon which the user is intended to stand shall be no less than 84" [2134mm] in all directions from the at rest perimeter of the play structure.

PC 2442  
Page 3 of 6

Use the Spring Fling Duo Base Plate to create a plywood template for the placement of the anchor bolts. Attach anchor bolts to the template as shown in Figure 2.

Diagram illustrating the assembly of the table legs to the tabletop using the provided hardware:

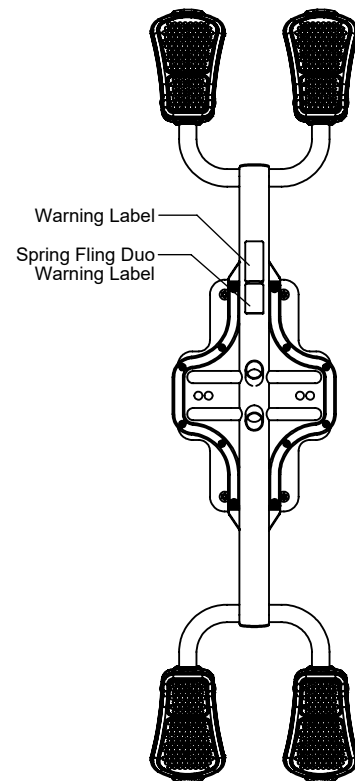
- Anchor Bolt Nut 8 Plcs**: Used to secure the anchor bolts through the tabletop.
- Anchor Bolt Washer 8 Plcs**: Used to provide a flat surface for the nut to sit on.
- Plywood Template**: Used to mark the locations for the anchor bolts on the tabletop.
- Anchor Bolt 8 Plcs**: Used to secure the legs to the tabletop.



**FIGURE 2**

**Step 3**

Pour concrete footing and level template on surface. Orient and set anchor bolts in concrete as shown in footing detail. Allow approximately 1" [25 mm] of thread to protrude from the concrete as shown in Figure 3. Allow 72 hours to cure before proceeding to next step. (See Note B)



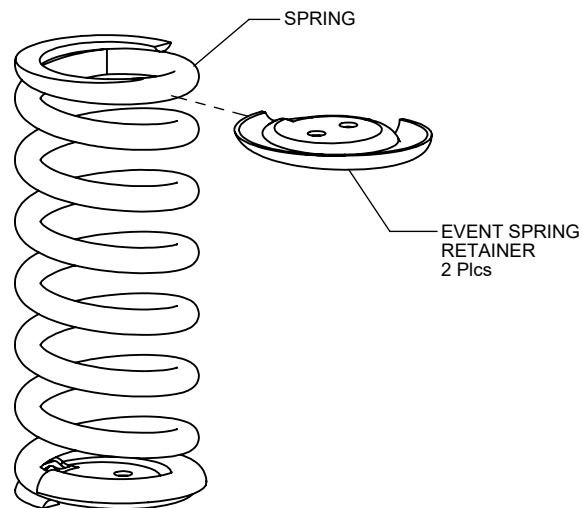
### FIGURE 4

Apply Spring Fling Duo Warning Label & Warning Label where visible to users as shown in Figure 4.

## **Step 5 (Factory Assembled)**

Insert Event Spring Retainers into Springs and twist into place to attach as shown in Figure 5.

**NOTE:** 4 Places

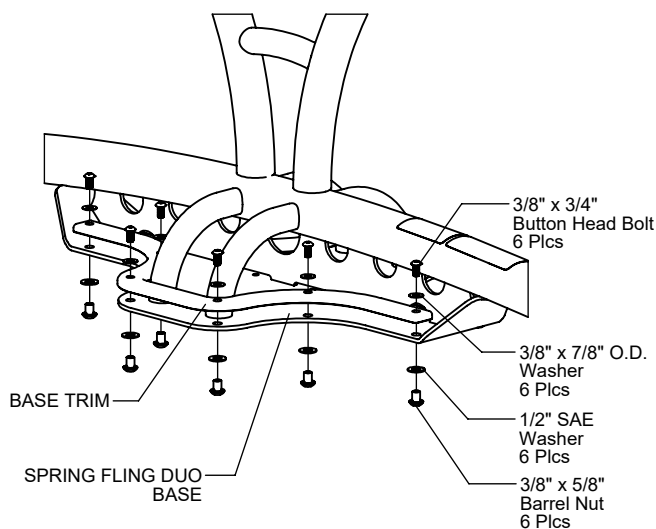


**FIGURE 5**

## **Step 6 (Factory Assembled)**

Attach Base Trim to Spring Fling Duo Base as shown in Figure 6. (See Note A)

**NOTE:** 2 Places

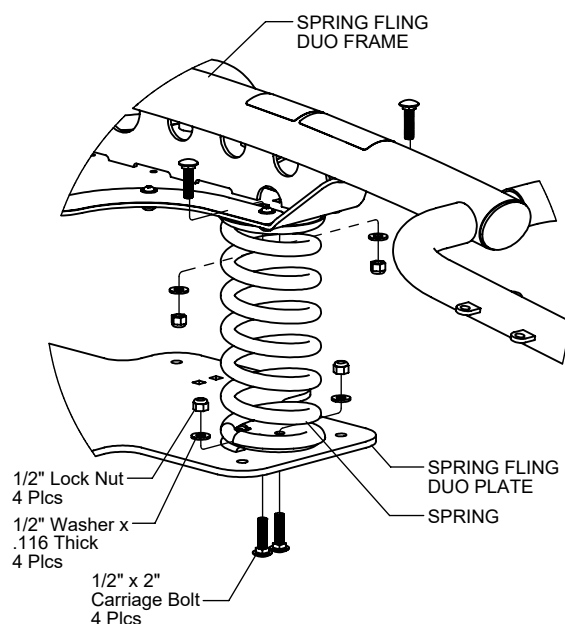


**FIGURE 6**

## **Step 7 (Factory Assembled)**

Attach Springs between the Spring Fling Duo Frame and Base Plate as shown in Figure 1.1. (See Note A)

**NOTE:** 4 Places

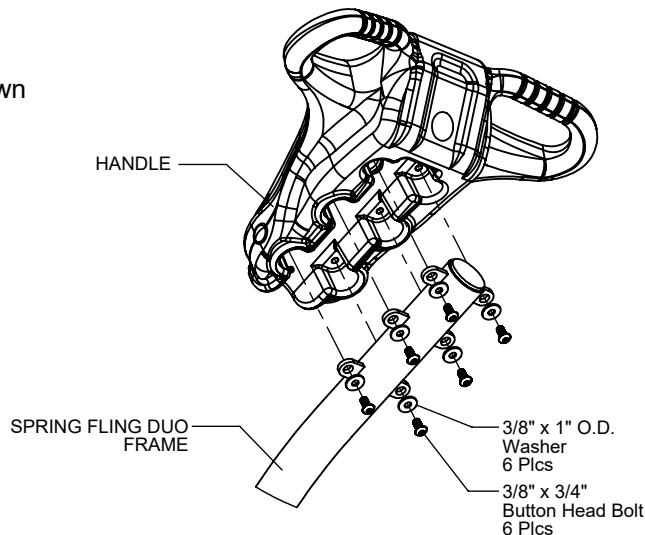


**Figure 1.1**

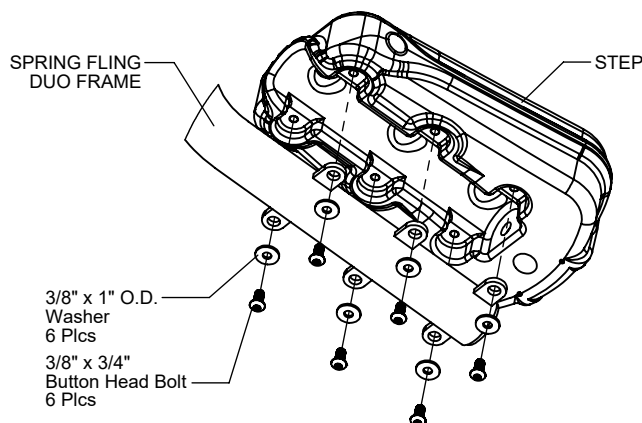
## Step 8 (Factory Assembled)

Attach Handles to Spring Fling Duo Frame as shown in Figure 1.2. (See Note A)

**NOTE:** 2 Places



**Figure 1.2**



**Figure 1.3**

## Step 9 (Factory Assembled)

Attach Steps to Spring Fling Duo Frame as shown in Figure 1.3. (See Note A)

**NOTE:** 4 Places

## Step 10

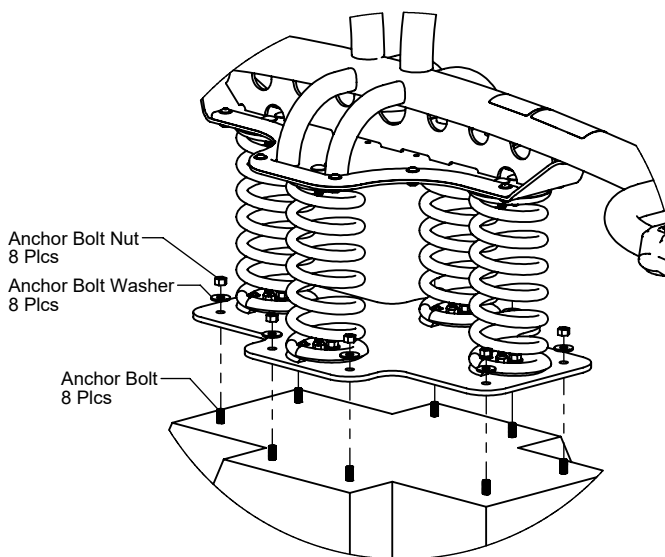
Attach Spring Fling Duo to concrete footing as shown in Figure 1.4. (See Notes A & C)

## Step 11

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

## Step 12

Place required protective surfacing under and around Spring Fling Duo. (See Note D)



**Figure 1.4**

# SPRING FLING DUO

## INSTALLATION INSTRUCTIONS

**PC 2442**  
Page 6 of 6

### Parts List

Part #	DESCRIPTION	QTY.
9175393	Bolt Anchor 1/2" x 9-1/2" w/ Washer and Nut	8

### Assembled Parts List

Part #	DESCRIPTION	QTY.
AE-0143	Spring Fling Duo Plate	1
BE-4514	Event Spring Retainer	8
DE-0007	Spring Fling Handle	2
DE-0008	Spring Fling Step	4
EE-0157	Spring Fling Duo Base Trim	2
FS-PC2442-FRM	Spring Fling Duo Frame	1
HE-4498	Playground Event Spring	4
372005	Spring Fling Duo Warning Label	1
372016	Warning Label	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	48
9115092	Bolt Carriage 1/2" x 2"	16
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	36
9333042	Washer Flat 3/8" x 7/8" O.D.	12
9335002	Washer Flat 1/2" (.116" thick)	16
9345002	Washer Flat SAE 1/2"	12
9415132	Nut Lock 1/2"	16
9443022-TR	Nut Barrel 3/8" x 5/8" BH	12

### Specifications

#### SPRING FLING DUO FRAME:

Shall be fabricated using 3.5" O.D. 11 gauge steel tubing with welded 2.375" O.D. 11 gauge steel legs and handles, and 1.660" O.D. 11 gauge steel gussets. The main beam shall be welded to a 1/4" thick sheet steel base. The Spring Fling Duo Frame shall have a multi-stage baked-on powder coat finish.

#### SPRING FLING DUO PLATE:

Shall be 3/8" thick steel with a multi-stage baked-on powder coat finish.

#### SPRING FLING DUO BASE TRIM:

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

#### SPRING FLING HANDLE & STEP:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average double wall thickness of 1/4".

#### PLAYGROUND EVENT SPRING:

Shall be 5-3/4" O.D. with a free height of 14". The Playground Event Spring has a multi-stage baked-on powder coat finish.

#### EVENT SPRING RETAINER:

Shall be fabricated using precision cut and formed 1/8" thick sheet steel. The Event Spring Retainer shall 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.

### 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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**Rev E**  
9/23/2019