

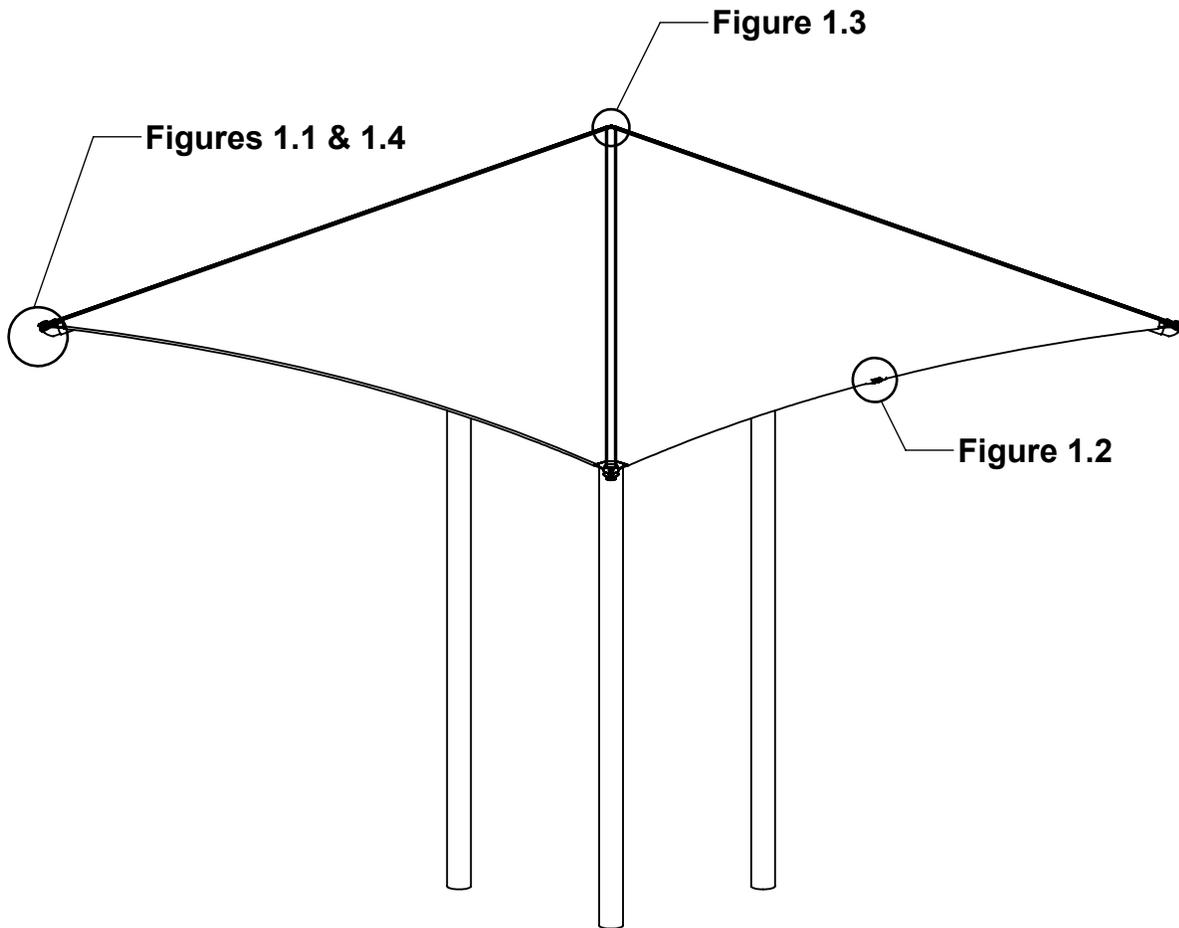
**IMPORTANT NOTES: Read First**

(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) When installing Shade Canopy Square Roof, make sure that the lowest point of the roof is a minimum of 84" [2130mm] above the underlying play surface.

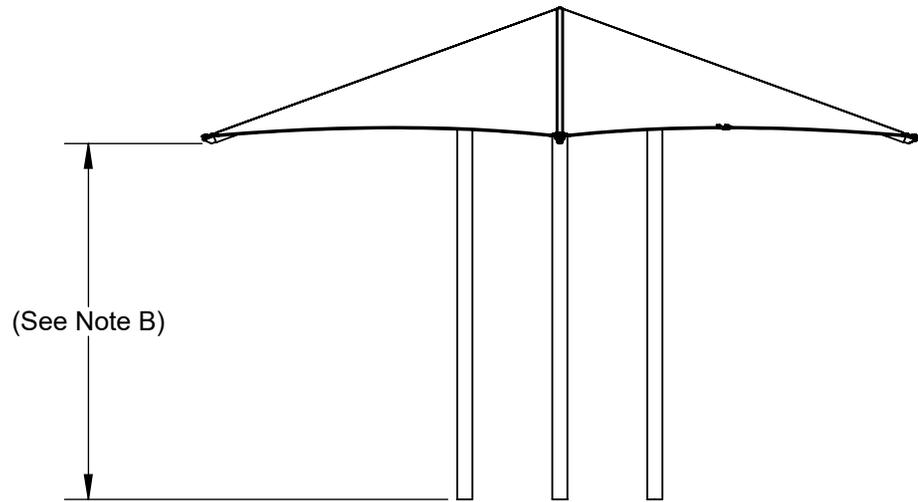
(C) Remove canopy from Shade Canopy Roof in high wind and heavy snow conditions. Block protrusions while canopy is removed to maintain CPSC/ASTM compliance.

**FIGURE 1  
Shade Canopy  
Square Roof**

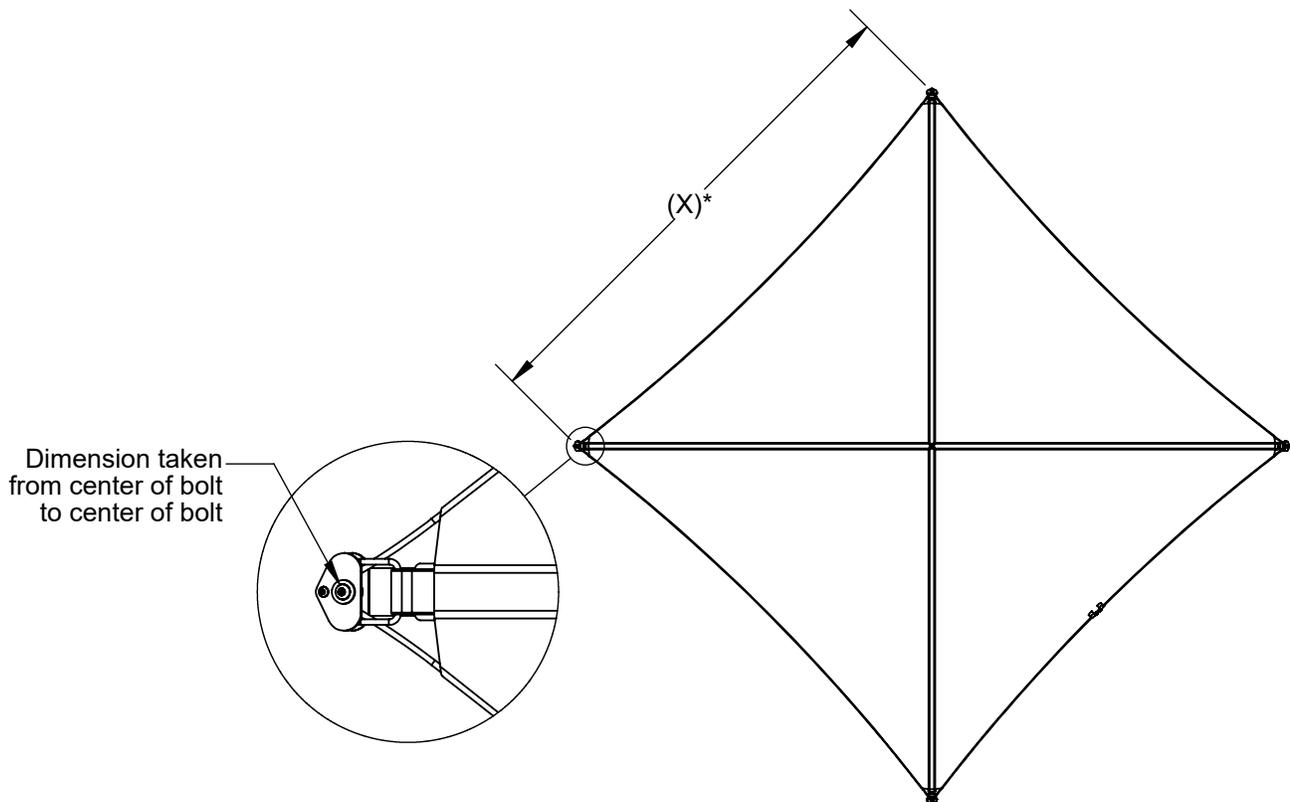


**NOTE:** R5 14' Shade Canopy Square Roof shown. Other configurations will vary slightly, but does not affect assembly.

**Elevation View**



**Top View**



\* Dimension indicated should be equal on all sides.

## Step 1 (Factory Assembled)

Assemble Canopy Jack Screws. Apply grease to Canopy Jack Screws and attach to Rafters as shown in Figure 1.1. (See Note A)

**NOTE:** Do not use liquid thread lock (such as Loctite®) on 1/4" x 1-1/2" Button Head Bolt, 1/4" Lock Nut and Canopy Jack Screw in this step.

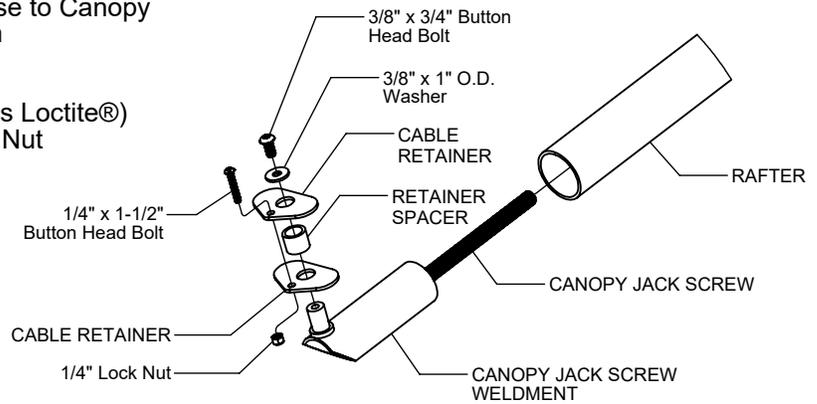


Figure 1.1

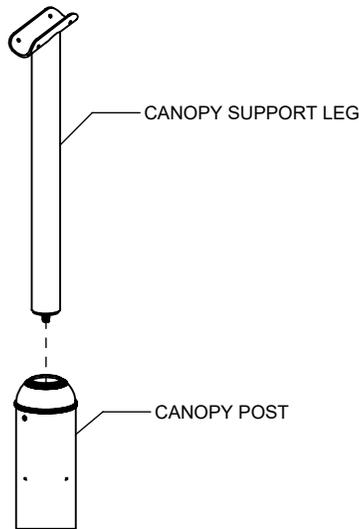


FIGURE 2

## Step 2

Screw Canopy Support Legs into Canopy Posts as shown in Figure 2. Canopy Support Legs should be pointed at an upward angle to center of deck.

**NOTE:** Insure all Canopy Support Legs are at same height.

## Step 3

Insert Rafters into Rafter Hub until Rafters contact the rafter stops. Secure Rafters to Rafter Hub as shown in Figure 3.

**NOTE:** Insure the lower end of all Rafters are at same length when attached to Rafter Hub.

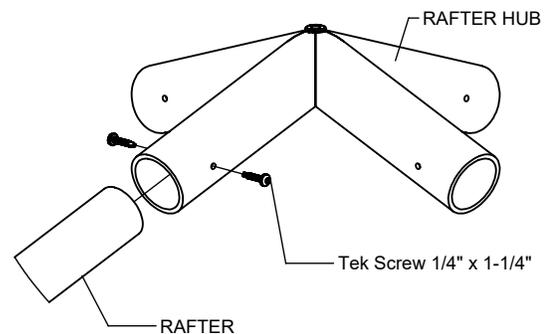
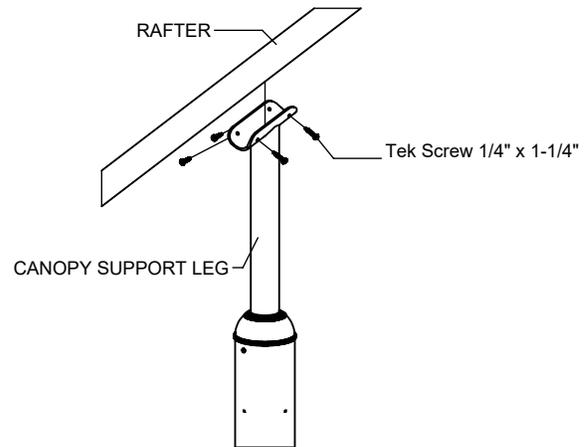


FIGURE 3

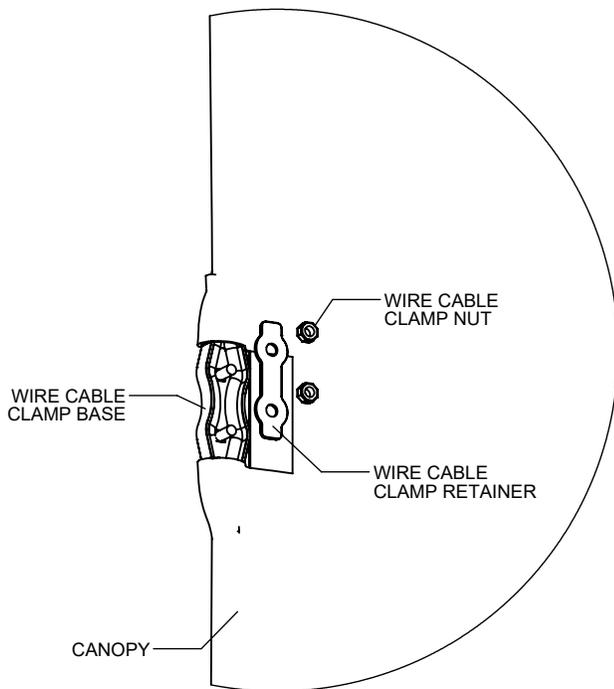
## Step 4

Set Rafters into Canopy Support Legs and center above deck. Secure Rafters to Canopy Support Legs as shown in Figure 4.

**NOTE:** Insure all lower ends of Rafters are level and at same height after attached to Canopy Support Legs.



**FIGURE 4**



**Figure 1.2**

## Step 5

Insert Wire Cable through perimeter of Canopy Square.

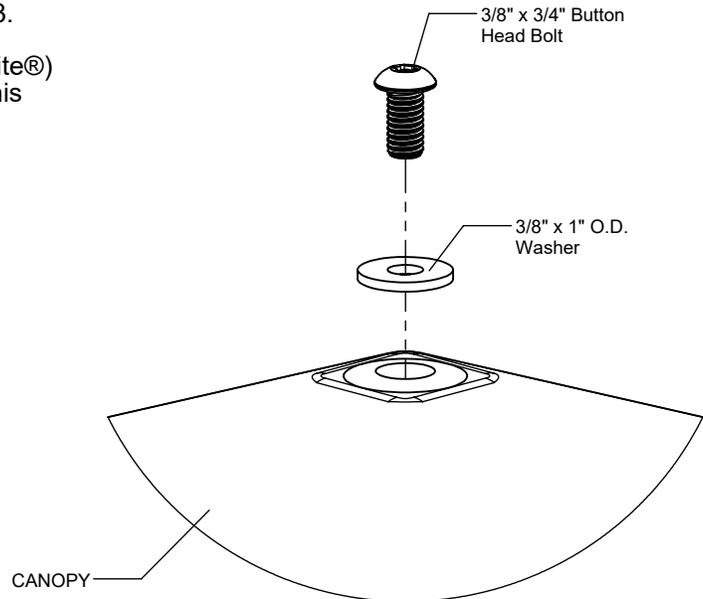
## Step 6

Attach Wire Cable Clamp to Wire Cable as shown in Figure 1.2.

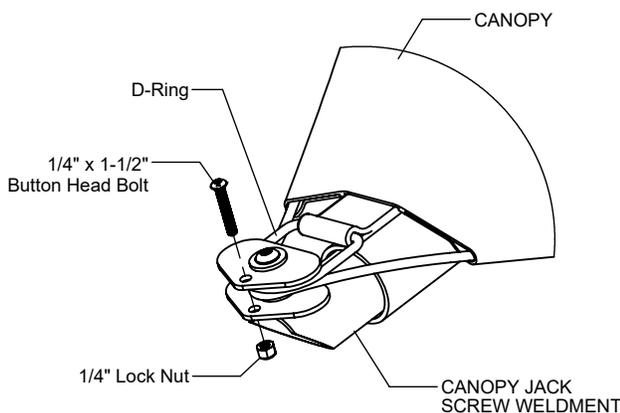
## Step 7

Attach Canopy to Rafter Hub as shown in Figure 1.3.

**NOTE:** Do not use liquid thread lock (such as Locktite®) on 3/8" x 3/4" Button Head Bolt and Rafter Hub in this step.



**Figure 1.3**



**Figure 1.4**

## Step 8

Remove 1/4" x 1-1/2" Button Head Bolt and 1/4" Lock Nut From Canopy Jack Screw. Hook D-Rings and Wire Cable over Cable Retainers. Secure to Canopy Jack Screws as shown in Figure 1.4.

## Step 9

Adjust Wire Cable overlap and Wire Clamp until Canopy is taut and D-Rings are secure against retainers. Slide Wire Cable around until Wire Cable Clamp is hidden inside of Canopy.

## Step 10

Evenly tighten Canopy Jack Screws to adjust Canopy tension and maintain a uniform dimension on all sides. (See Top View)

## Step 11

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

## Parts List

Part #	DESCRIPTION	QTY.
FS-18022-HUB	Roof Canopy Square Rafter Hub	1
FS-18022-LEG	Roof Canopy Support Leg	4
Varies	Shade Canopy Square	1
451003	1/4" Wire Cable Clamp	1
455114	1/4" Canopy Wire Cable	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	1
9271062-TR	1/4" x 1-1/4" Tek Screw	24
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	1

## Assembled Parts List

Part #	DESCRIPTION	QTY.
Varies	Roof Canopy Sq. Rafter	4
FS-18022-JAC	Roof Canopy Jack Screw	4

## Specifications

### ROOF CANOPY JACK SCREW:

Shall be fabricated using 2" O.D. 10 gauge steel tube with welded 3/16" thick steel plugs, welded 1" O.D. machined steel retainer stub, 1" O.D. 11 gauge steel cable spacer and punched 10 gauge steel retainers and will have a multi-staged baked-on powder coated finish.

### ROOF CANOPY SQUARE RAFTER HUB:

Shall be fabricated using 2.50" O.D. schedule 40 pipe with welded zinc nut and stainless steel stop and will have a multi-stage baked-on powder coat finish.

### ROOF CANOPY SQUARE RAFTER:

Shall be fabricated using 2.375" O.D. 10 gauge steel tubing with welded 1/2" thick steel plug and will have a multi-stage baked-on powder coat finish.

### ROOF CANOPY SUPPORT LEG:

Shall be fabricated using 2.375" O.D. 10 gauge steel tubing welded to a formed 3/16" thick steel cradle and will have a multi-stage baked-on powder coat finish.

### SHADE CANOPY SQUARE:

Shall be UV & mildew resistant woven acrylic fabric, folded and stitched for strength and to accommodate steel cable.

### 1/4" CANOPY WIRE CABLE:

Shall be Ø1/4" steel cable with a clear vinyl coating.

### 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.

