

CE-CG2x2HD Install Guide

*CE-CG2x2HD does not come with a Telescoping Pole, pole is sold separately. Select one of these Telescoping Poles: CE-CMHL-3, CE-CMHL-6.



Maximum Load Capacity: 60lbs/27kgs



Capacité de charge maximale: 27 kg (60 lbs).

CAUTION: This Ceiling Mount is intended for use only with the maximum weights indicated. Use with products heavier than the maximum weights indicated may result in collapse of the Ceiling Mount and its accessories causing possible injury.

ATTENTION: Ce support plafond est prévu à être utilisé avec le poids maximum indiqué. À utiliser avec des produits plus lourds que le poids maximal indiqué peut entraîner l'effondrement de le support et ses accessoires et de blessures éventuelles.

THE INSTALLATION OF THIS CEILING MOUNT IS TO BE PERFORMED BY A QUALIFIED INSTALLER WHO IS FAMILIAR WITH LOCAL BUILDING CODES FOR ATTACHING DEVICES TO THE STRUCTURAL CEILING MEMBERS.

The Ceiling Tile is not intended to be supported by the suspended ceiling grid to which it is mounted to. Under NO circumstances should the Safety Wires be attached to Electrical Conduit, Gas or Water Piping.

The installer of these products must verify that the mounting surface, ceiling or wall, will safely support the combined weight of all attached equipment and hardware. Clinton Electronics will not be held liable for the improper use or installation of its products.

Included Items:

- 2'x2' Ceiling Tile x1
- 1-13/16" ID Collar x1
- Plastic Shims x2
- Turnbuckles x4
- Spool Annealed Safety Wire x1
- T-Bar Clips x2
- Plastic Cable Sleeve x1
- 3/16" Drive Rivet x1

Required Items:

- #2 Phillips Head Screwdriver
- 9/32" Wrench or Socket
- 5/16" Wrench or Socket
- 7/16" Wrench or Socket
- 5mm Allen Wrench
- 6mm Allen Wrench
- Wire Cutters
- 3/16" Drill Bit & Drill
- Hammer

Optional Items: (not included)

- 3/16" Dia. Eye Bolt x 4 (Steel Truss/Beam Mounting)
- 3/16" Dia. Eye Screw x 4 (Wood Truss/Stud Mounting)
- 3/16" Dia. Tie Wire Concrete Anchors x 4 (Concrete Ceiling Mounting)
ex: Red Head #TD4-112 Redi-Drive

1. Install Ceiling Tile

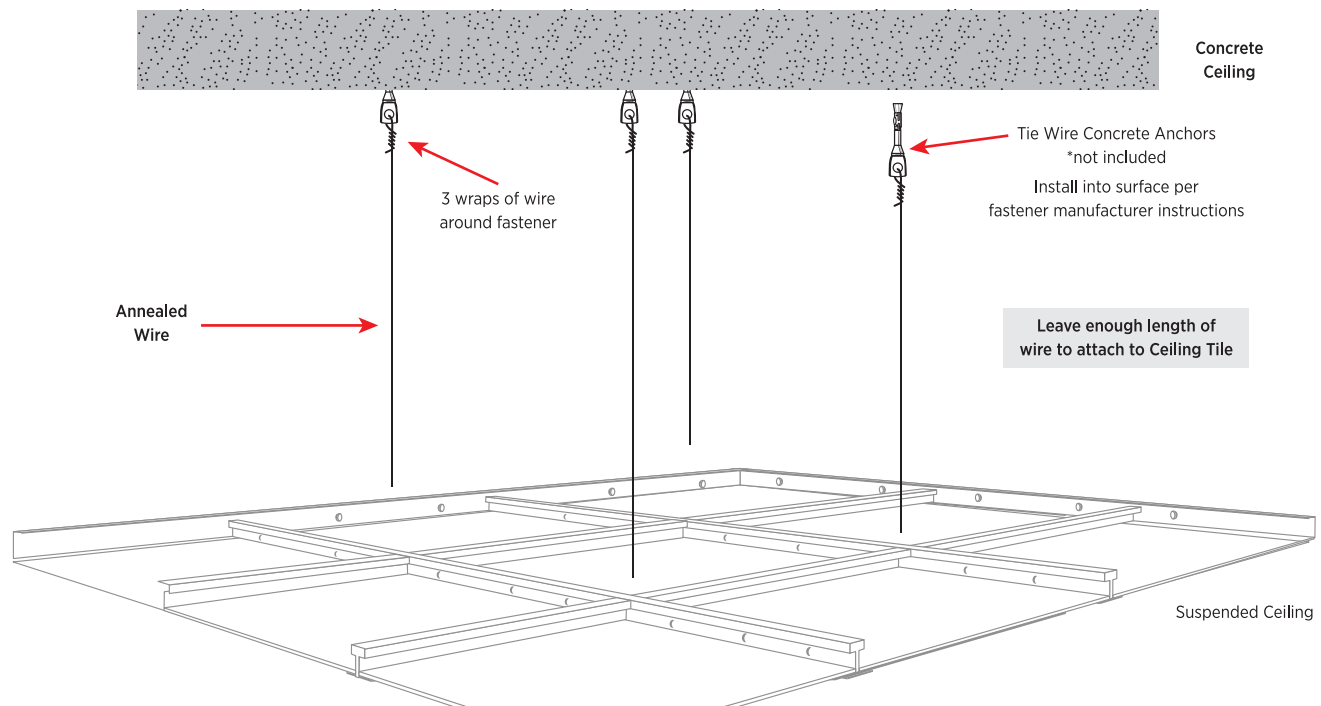
1.1 Locate four (4) attachment points in a permanent structure above the suspended ceiling; trusses, beams, studs or concrete ceiling, where Safety Wire can be attached to. One wire is required for each corner of the Ceiling Tile.

For Steel Trusses or Beams, secure a 1/4" dia minimum eye bolt (National Hardware #2160, available at Home Centers) to the structure by drilling a clearance hole through the truss or beam.

For Concrete ceilings, attach with Tie Wire Concrete Anchors (ITW-Redhead #TD4-112 Redi-Drive, or ITW-Redhead 1/4" x 1-1/2" Redi-Drive Tie Wire Anchors available at Home Centers). Anchors must be rated a minimum of 200 pounds in tension.

For Wood Truss/stud ceilings, use a 1/4" dia Screw Eye (National Hardware #2150, available at Home Centers) with a minimum penetration into the wood of 1". A 1/8" Pilot Hole is recommended to avoid splitting the wood.

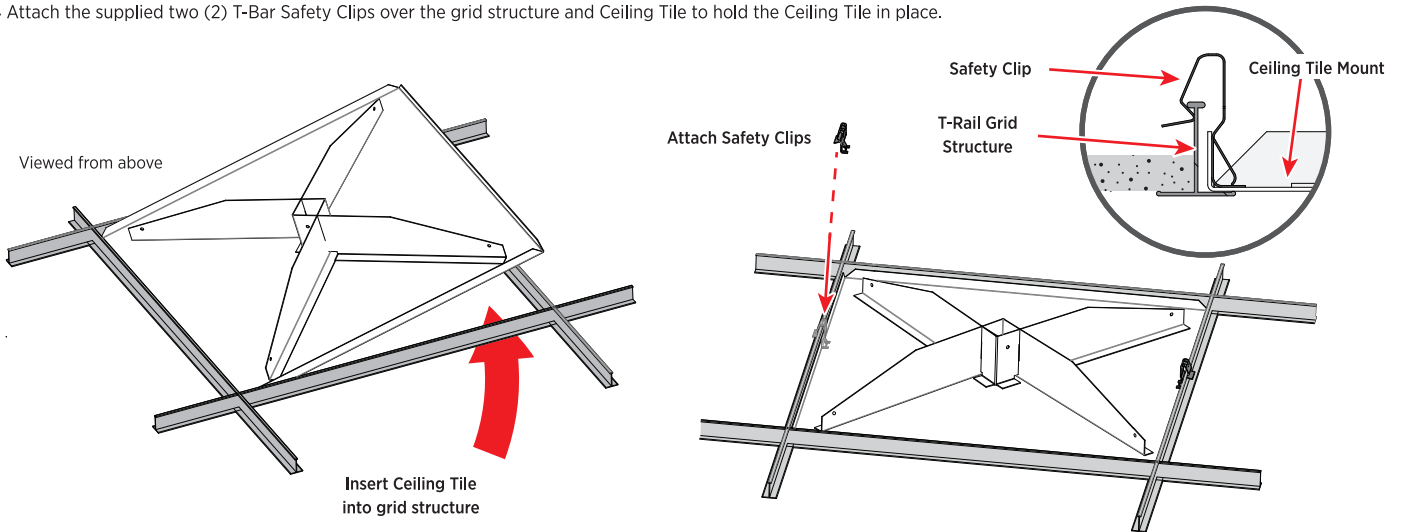
1.2 Attach the Annealed Wire to the Anchor with a minimum of three (3) wraps around each fastener.



1. Install Ceiling Tile - Continued

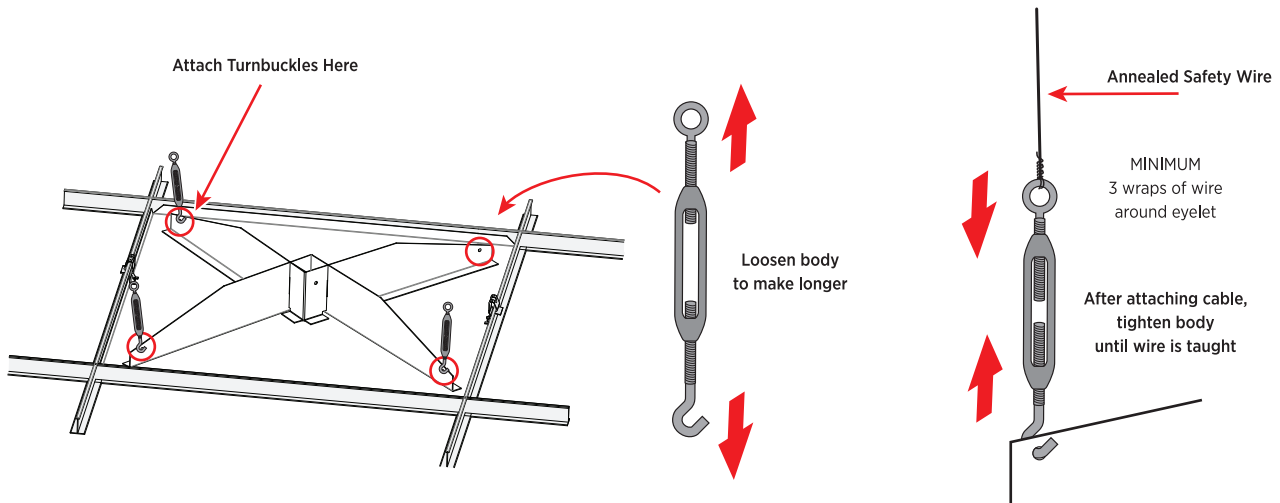
1.3 Position the Ceiling Tile in the desired location of the suspended grid structure. If installing in a 2ft x 4ft tile space, an additional cross tee (not included) must be used to fully support the tile on all four sides.

1.4 Attach the supplied two (2) T-Bar Safety Clips over the grid structure and Ceiling Tile to hold the Ceiling Tile in place.



1.5 A hole is located in each corner of the gusset of the 2x2 tile. Insert the (4) turnbuckles into these holes and twist the body to open (lengthen) them. Secure the wire installed in **Step 1.1** to the eyelet of the (4) turnbuckles. Tighten (shorten) the turnbuckles by twisting the body until the wire is taut and the weight of the Mount and contents is fully supported by the Annealed Safety Wire and not the Ceiling T-Bar Grid. Re-tension if necessary after assembly is complete.

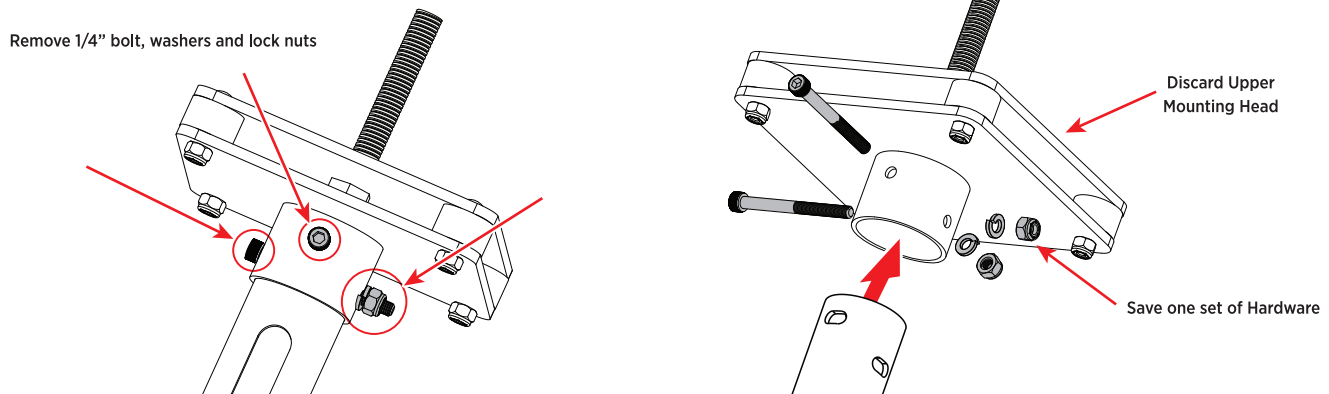
THE WEIGHT OF THE CEILING TILE MOUNT AND MONITOR SHOULD BE SUPPORTED BY THE FOUR (4) ANNEALED SAFETY WIRES, NOT THE SUSPENDED GRID STRUCTURE.



2. Separate the Mounting Head from the Pole

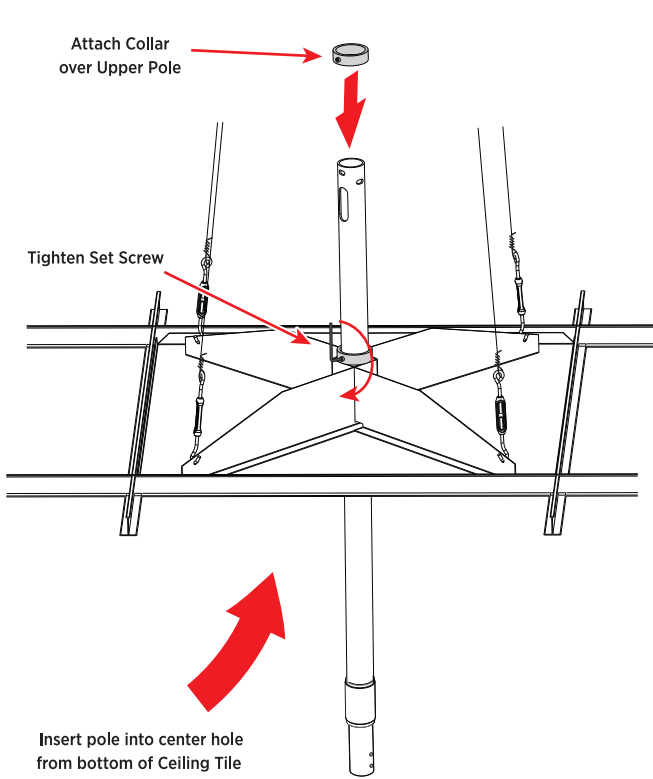
2.1 Remove the two 1/4" bolts from the upper mounting head using a 5mm Allen wrench and 7/16" wrench. Save one bolt, lock washer, and lock nut for use later. Remove the upper mounting head from the pole, using a hammer if necessary.

2.2 The upper mounting head, and one set of hardware can be discarded, it is not used with the 2x2 tile assembly.

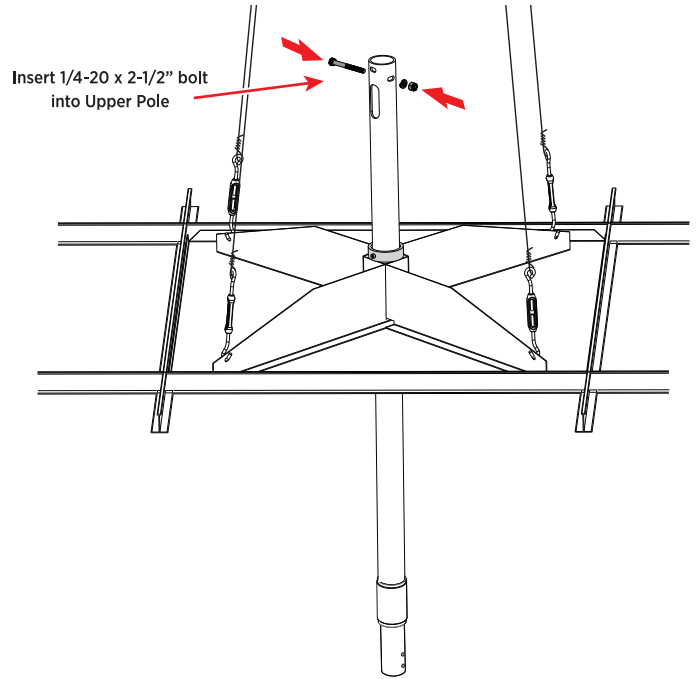


3. Install Telescopic Pole to Ceiling Tile

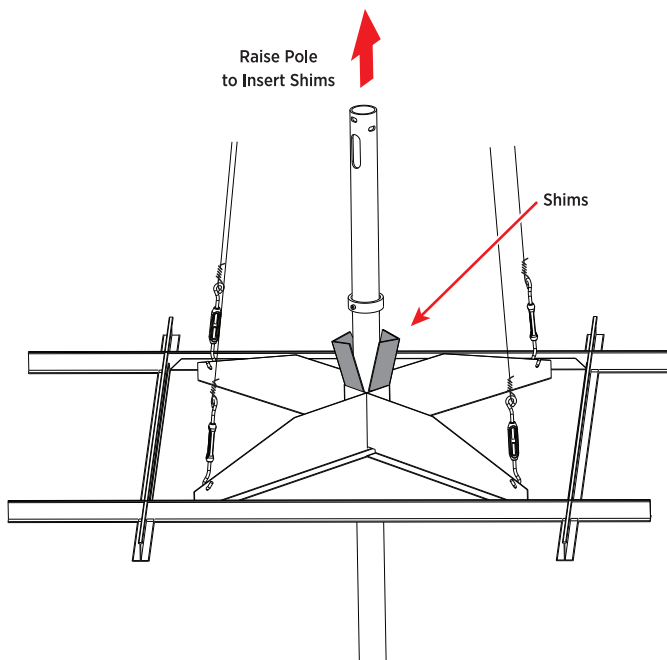
- 3.1. Insert the upper end of the telescoping pole (larger diameter pole) up through the center hole in the bottom of the ceiling tile.
- 3.2. Install the collar over the pole from above the ceiling tile and using a 6mm Allen wrench, tighten the Allen set screw on the collar to achieve the desired height of the pole below the ceiling tile.
- 3.3 Insert the 1/4-20 x 2-1/2" bolt previously removed from the telescopic pole assembly in Step 2.1 into either one of the holes near the top of the pole. Attach lock washer and lock nut and tighten with 5mm Allen wrench and 7/16" wrench.



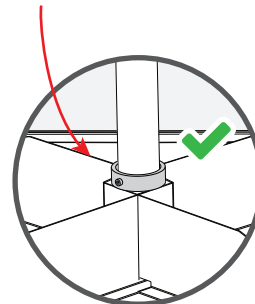
CAUTION! THIS BOLT ACTS AS A SAFETY FEATURE IN THE EVENT THE COLLAR SHOULD SLIP ON THE POLE. THIS BOLT MUST BE INSTALLED.



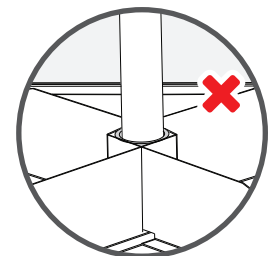
- 3.4 Pull the pole upward enough to insert the two plastic shims between the pole and gussets in the ceiling tile. With the shims inserted, lower the pole back into position. The collar should rest on the top of the ceiling tile gussets and shims.



Collar Rests on Ceiling Tile Gussets



Collar Sits Inside Ceiling Tile Gussets



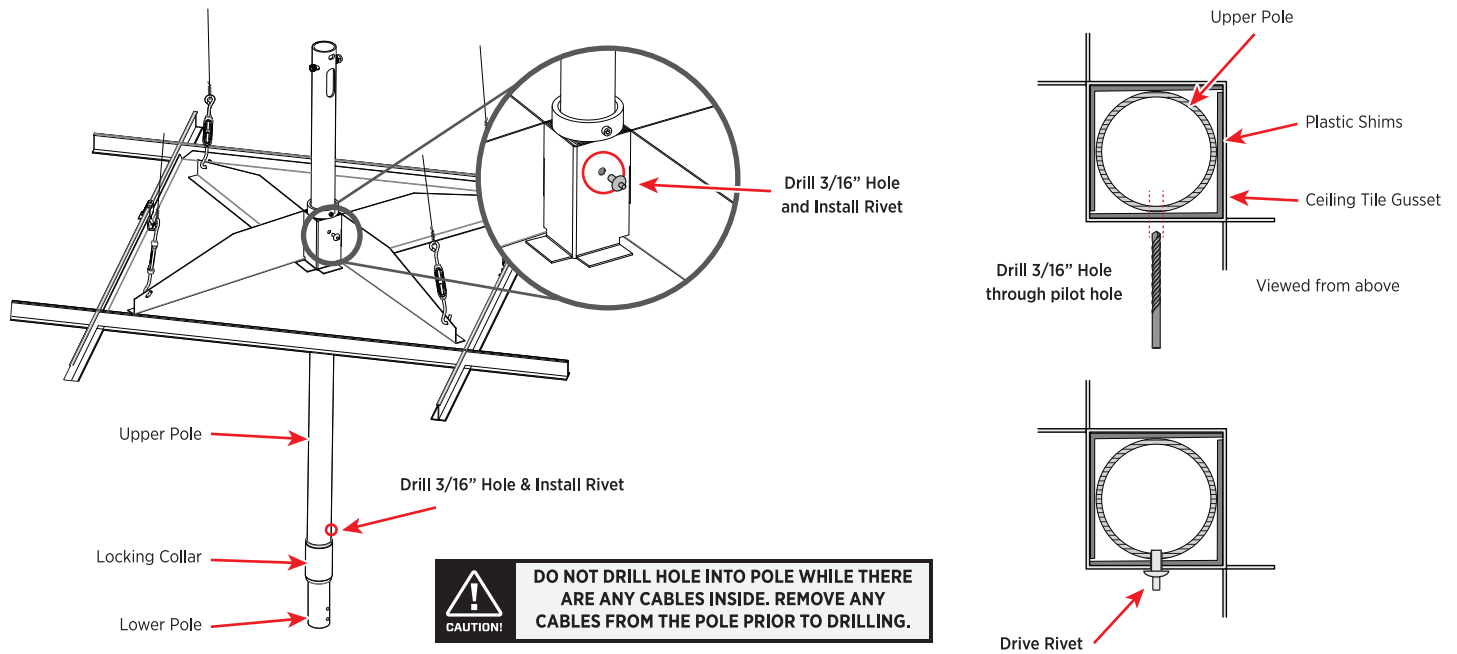
Fitting the Collar inside the center of the gussets can weaken the integrity of the ceiling tile mount.

3. Install Telescopic Pole to Ceiling Tile - Continued

3.5 Ensure the height, rotation, and location of the Upper Pole is in the desired position before performing the next step.

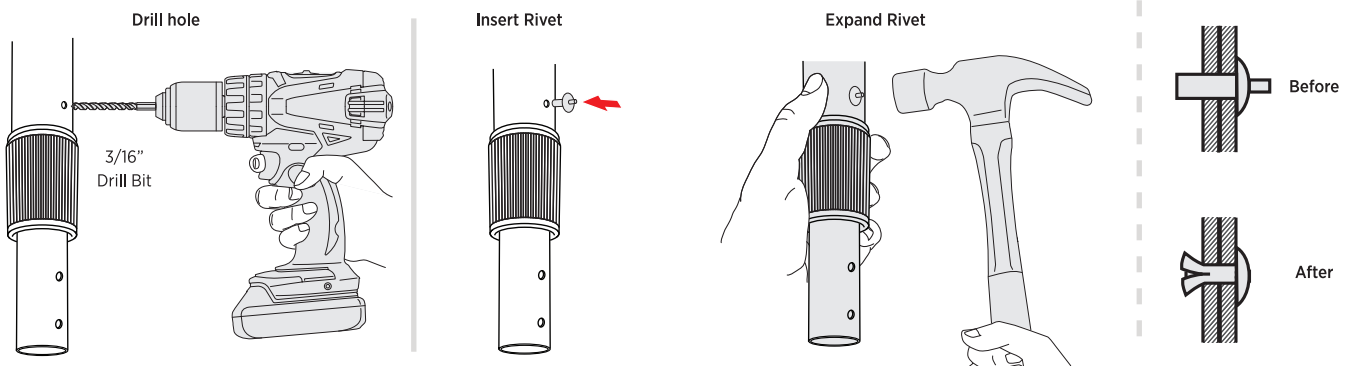
3.6 If the pole is compressed loosen the locking collar on the pole assembly and extend the Lower Pole so that the drill does not contact the Lower Pole. Drill a 3/16" hole through the steel ceiling tile gusset pilot hole, plastic shims and the Upper Pole.

3.7 Insert the 3/16" Drive Rivet through hole and strike the pin to set the pole height and prevent the pole from turning or slipping- this locks the pole in place.

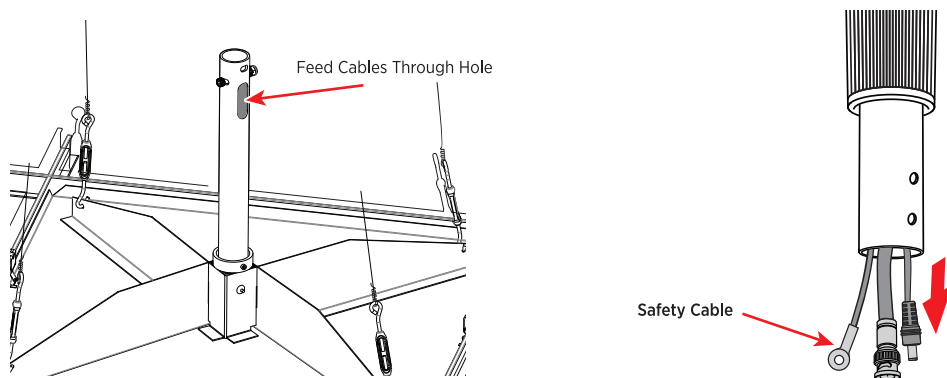


3.8 Adjust the Lower Pole section to the desired height and rotation. Drill a second 3/16" hole in the pilot hole located above the locking collar to lock the Telescopic Pole sections together. Once this rivet (supplied with Heavy Duty pole) is in place the height of the pole can no longer be adjusted.

THESE DRIVE RIVETS ARE REQUIRED TO MEET UL SAFETY REQUIREMENTS AND MUST BE INSTALLED.



3.9 Feed Power and Video cabling through the top of the Telescoping Pole, along with the Safety Cable at this time. The Safety Cable eyelet is to be located at the lower end of the pole.



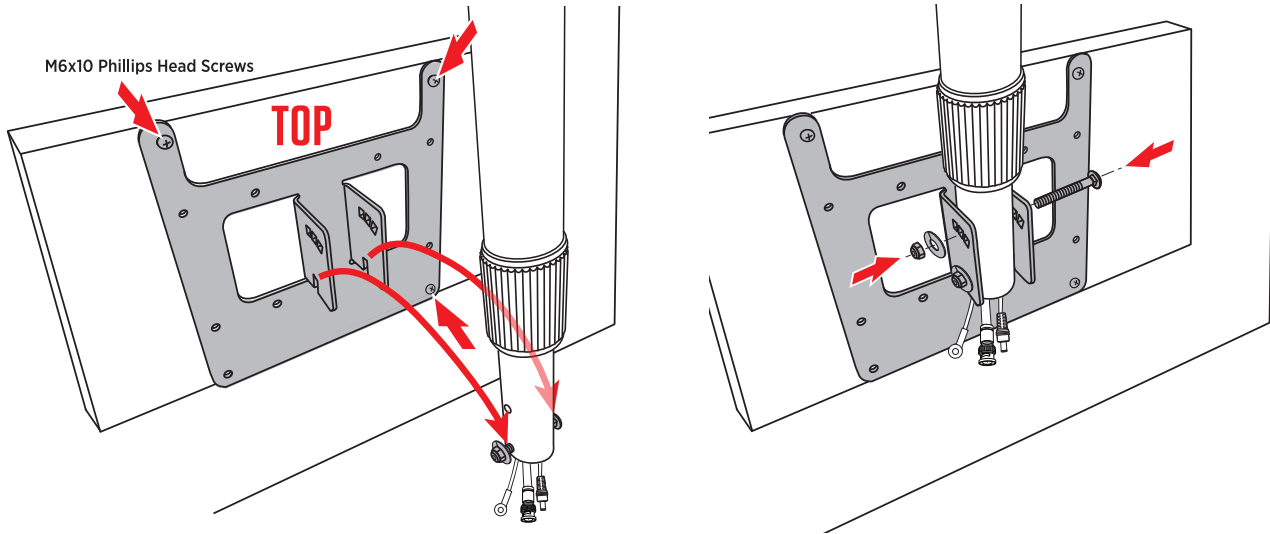
4. Install VESA Plate to LCD/PVM

4.1 Orient VESA Plate with the monitor so the open top side is up. Using three (3) M6x10 Phillips Head Screws, attach VESA Plate to monitor at the corresponding holes as shown. Leave one hole open for attaching the Safety Cable in step 6.

5. Install VESA Plate to Telescoping Pole

5.1 Before proceeding to hang the monitor, insert the carriage bolt, lock washer, and lock nut into the bottom hole of the pole. Leave the nut slightly loose, as this bolt will serve as a temporary support point until the top bolt is inserted in the next step.

5.2 Choose from one of the three VESA plate mounting angles, and insert the carriage bolt into the top hole. Attach the lock washer and lock nut, and tighten both locknuts with a 7/16" wrench to secure the VESA plate to the pole.



*TIP- Hang the monitor with the back of the monitor facing you. This way you can easily see the plate aligning to the support bolt, as well as insert the top bolt to secure it in place.



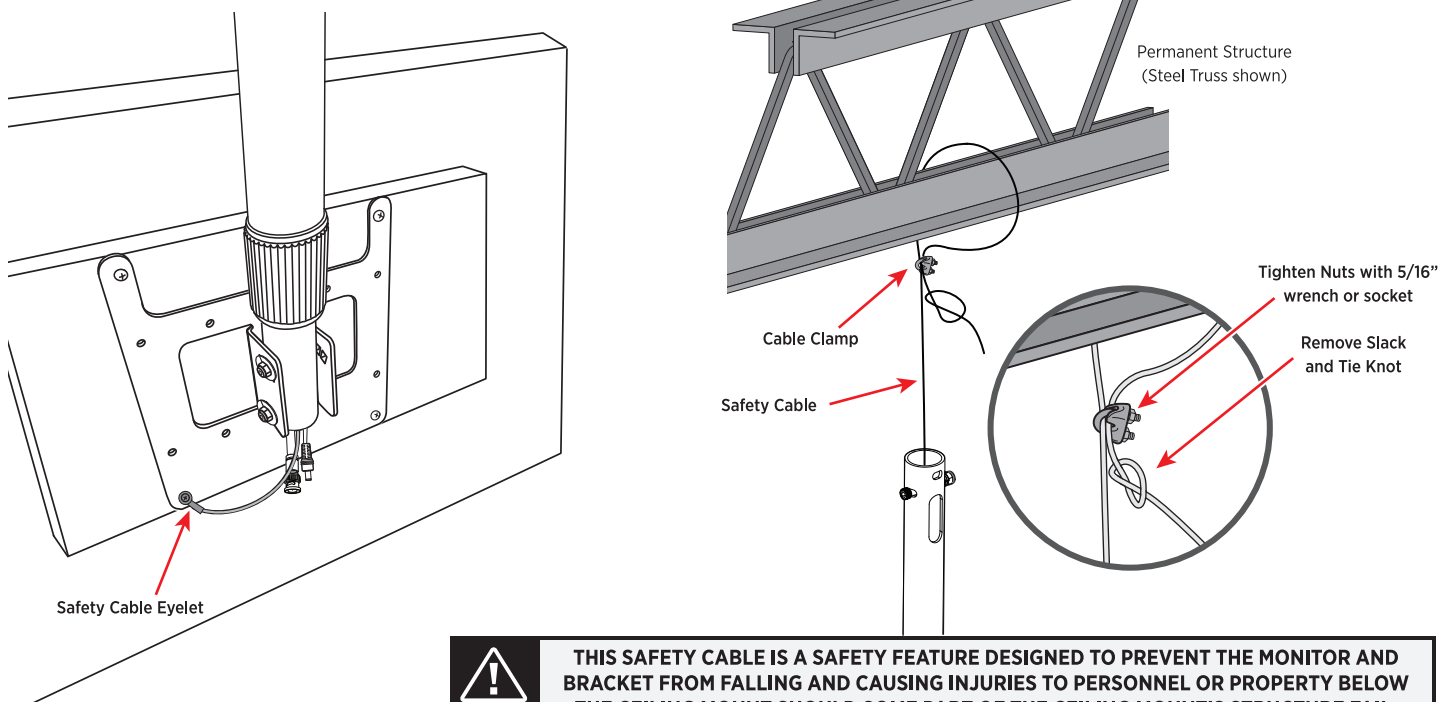
Maximum Load Capacity: 60lbs/27kgs
USE WITH PRODUCTS HEAVIER THAN THE MAXIMUM WEIGHTS INDICATED MAY RESULT IN COLLAPSE OF THE CEILING MOUNT AND ITS ACCESSORIES CAUSING POSSIBLE INJURY.

6. Install Safety Cable to Monitor

6.1 Using the last M6x10 Phillips Head Screw, attach the eyelet end of the Safety Cable to the last remaining VESA screw hole as shown.

6.2 Attach the plain end of the Safety Cable to the permanent structure directly above the Pole using the included Cable Clamp to loop around the structure and secure the cable to itself. Remove all slack from the cable and tie a simple knot in the loose end of the cable at the clamp to prevent any potential slippage of the cable through the clamp. Snug the knot to the cable clamp to prevent any movement of the cable. Tighten cable clamp nuts with a 5/16" wrench or socket.

LOOPING OF THE CABLE IS REQUIRED TO MEET UL SAFETY REQUIREMENTS AND MUST BE PERFORMED DURING INSTALLATION



THIS SAFETY CABLE IS A SAFETY FEATURE DESIGNED TO PREVENT THE MONITOR AND BRACKET FROM FALLING AND CAUSING INJURIES TO PERSONNEL OR PROPERTY BELOW THE CEILING MOUNT SHOULD SOME PART OF THE CEILING MOUNT'S STRUCTURE FAIL.