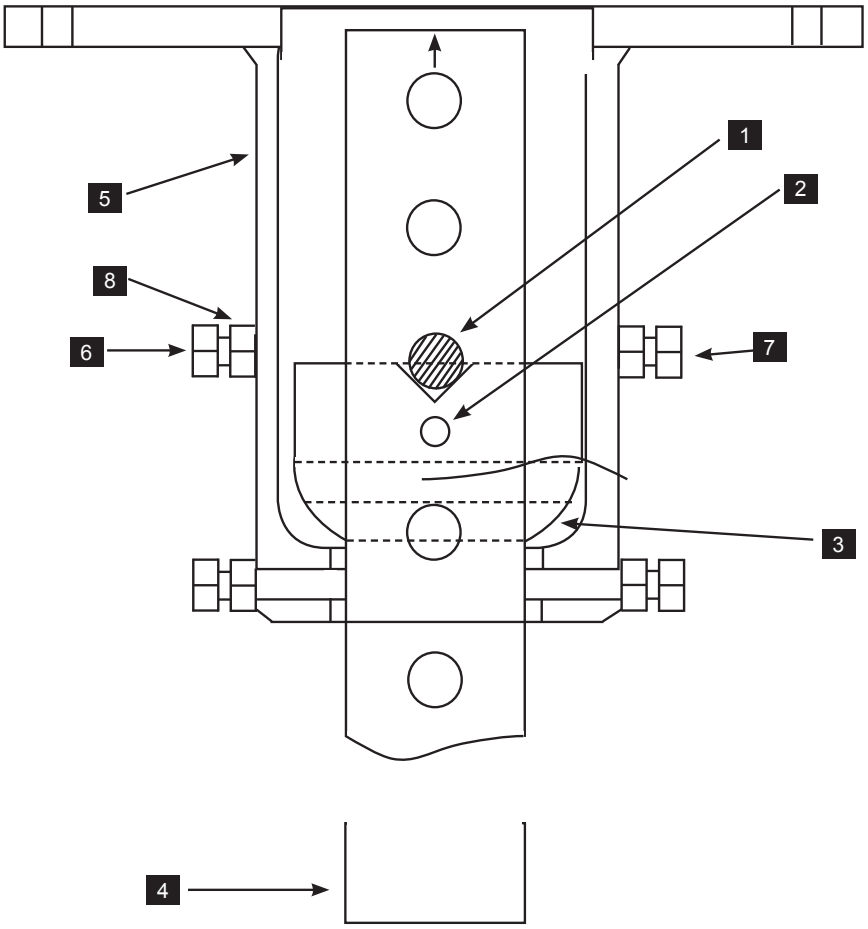
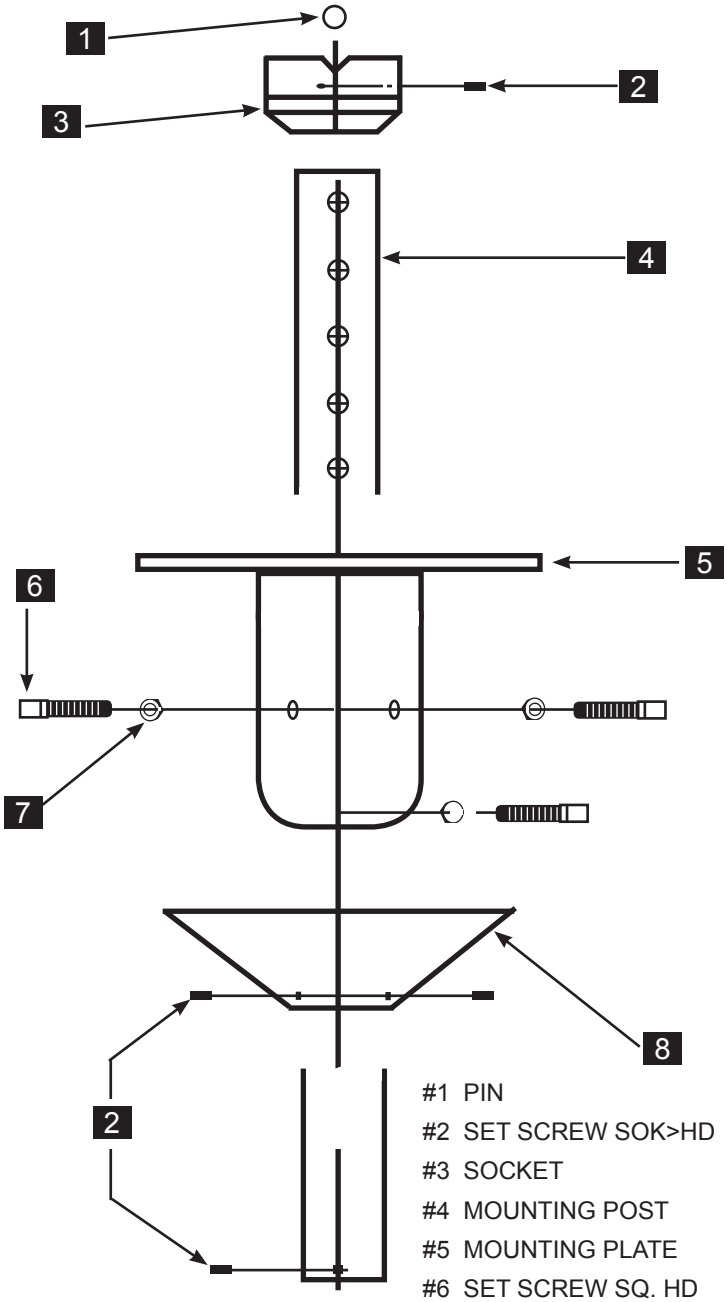
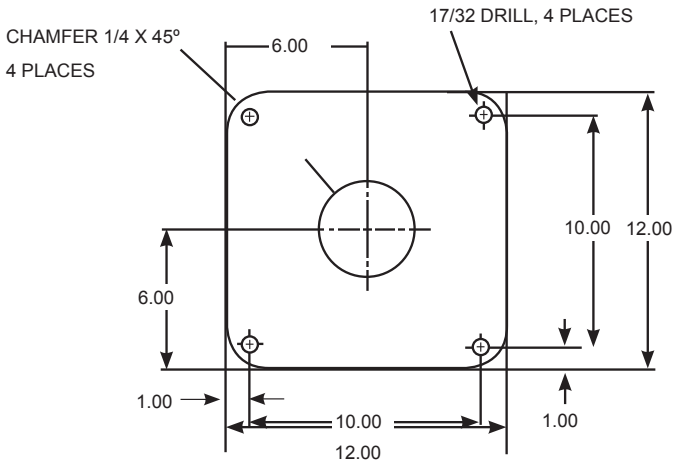


#1 PIN
#2 SET SCREW SOK>HD
#3 SOCKET
#4 MOUNTING POST
#5 MOUNTING PLATE
#6 SET SCREW SQ. HD
#7 HEX NUT

Place the mounting plate assembly 5 on its side to allow parts to be placed into it from both the top and bottom. Back out all square head set screw 6 in order to insert column 4. Feed in mounting post 4 through the opening of mounting plate with the end of the mounting post that has the five pin mounting holes entering first. Push the mounting post through far enough to allow the socket 3 to be installed onto the mounting post in such a position that the pin 1 can be installed in the proper holes above the socket. Then slide the socket back up so the pin engages in the V-groove in the socket and ensure the pin protrudes the same amount from each side of the post. While holding the socket firmly against the pin, tighten the set screw 2 (1/8" hex key) in the socket to lock it to the post. Then pull the mounting post back through the mounting plate assembly and hand tighten the six set screws 6 to hold the post/socket assembly in place while attaching the complete unit to the ceiling structure (Note: loosen the hex nuts 7 to allow movement of the set screws 6). Have an assistant lift the post assembly into position and fasten the assembly into the structural member. If there is any rocking motion due to a non-flat mounting surface, it will be necessary to shim between the surface and the assembly to ensure that there is a solid coupling between the two.

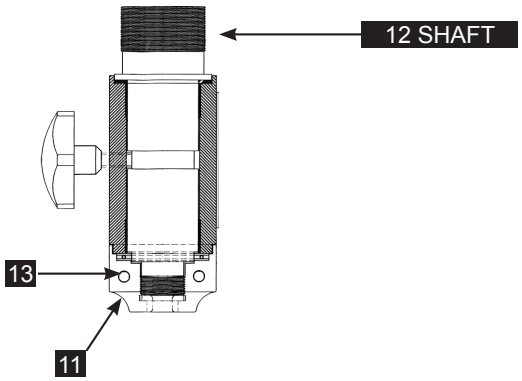


#1 PIN
#2 SET SCREW SOK>HD
#3 SOCKET
#4 MOUNTING POST
#5 MOUNTING PLATE
#6 SET SCREW SQ. HD
#7 HEX NUT
#8 CEILING MOUNT FLANGE



POSITIONING

The next step is to level and secure the mounting post 4. To do this, loosen the six set screws 6 to allow the mounting post to tilt (it has a five-degree tilt angle in all directions). Using a carpenters level against the mounting post and the mounting post is plumb position, continue to tighten the set screws, ensuring the column remains plumb. The six nuts 7 may then be tightened against the mounting plate assembly tube. In this next step, install the ceiling flange assembly 8 over the mounting post 4 with the flat side towards the ceiling. Slide it up the post approximately two feet and lightly tighten the three set screws 2 to hold the flange assembly in this temporary position. Thread the shaft 12 into the mounting post until it stops against the shoulder of the shaft and then insert the set screw 2 into the mounting post and tighten it (1/8" hex key) to lock the shaft into place.



Note: Turning the cap 11 clockwise or counter-clockwise will adjust Rotation Tension. Only one hole contains a Set Screw which locks the desired tension. Tighten Set Screw 13 to secure.

Prior to shipping, the set screw was tightened arbitrarily in order to allow previously mentioned assembly procedure.

After the entire 3D instrument is assembled to the Ceiling Mount, check for satisfactory rotational movement.

Optional: Cut off male plug from cord and feed up through cap 11 until into ceiling space and install connector

A thru hole is provided to wire the Assembly into the ceiling. Check with the electrical code on how to wire for the ceiling outlet.

The caps must be tightened to prevent the arm from drifting.