

### INSTALLATION INSTRUCTIONS

#### 1. BEFORE YOU BEGIN

##### INSTALLER INFORMATION

- Installer-supplied copper tubing to be: 5/8" O.D. (1/2" nominal); and 7/8" O.D. (3/4" nominal) for inlets.
- Install water hammer arrestors in supply lines near the valves.
- These instructions cover two methods of installation: installation on finished deck or rim; and installation on rough (unfinished) deck (to be covered later with tile or other finish material).
- Leave the protective sleeve on the spout supply tube until spout is installed. This is an O-ring sealing surface which may be damaged if unprotected.
- The finish deck material must fit closely to the diameters of the plasterguards, especially the spout plasterguard. Plasterguard diameters are approximately 1-5/8" for the valve and 7/8" for the spout.
- Provide an access panel to the valves from the underside of the deck.

##### ROUGHING-IN DIMENSIONS

X = Distance from centerline of spout inlet to front of spout base plus 1/2".

Y = Distance between valve centerlines vary. Check handle and spout installation instructions for exact dimensions.

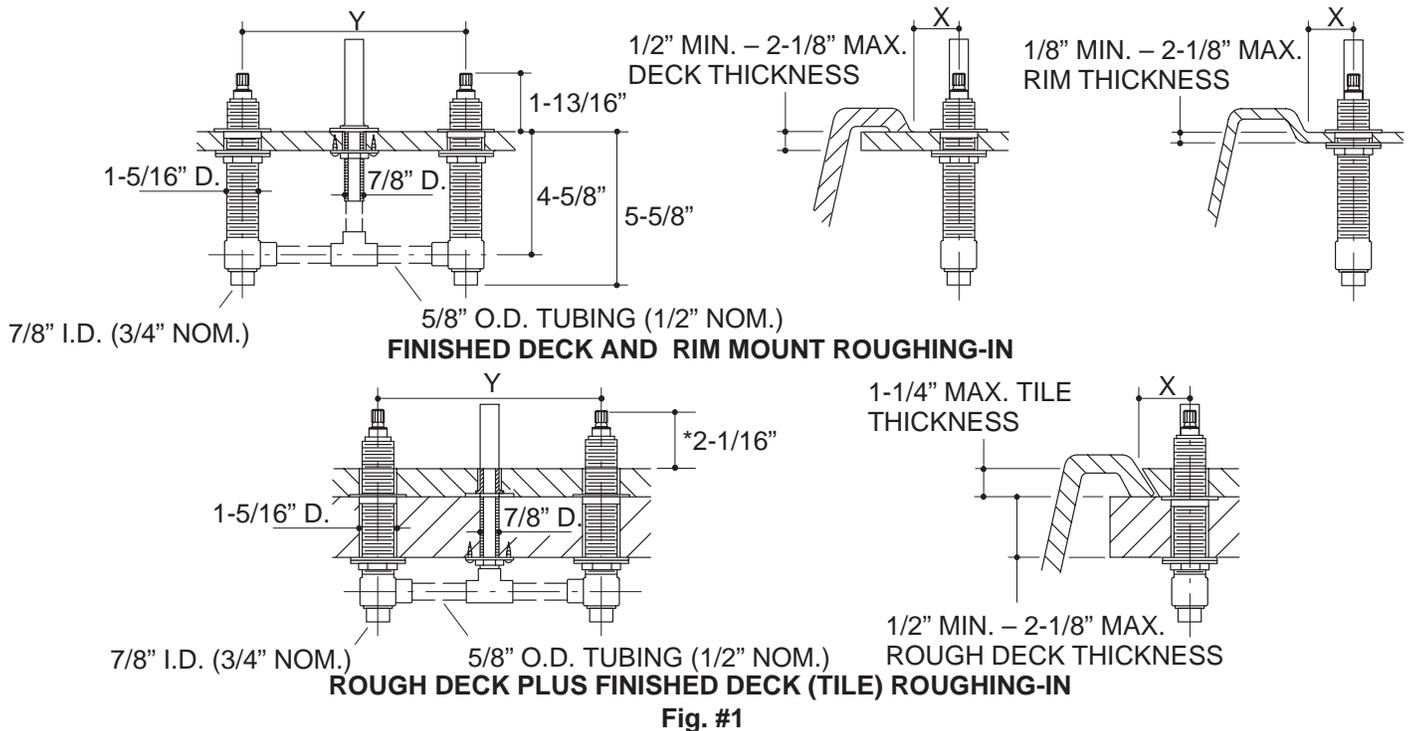
\* Dimension allows for ±1/4" handle adjustment during handle trim installation.

Diameter of hole in deck for spout = 1-1/8" Max.

Diameter of hole in deck for valve = 1-1/2" Max.

Thin deck/rim installations require additional support under deck/rim. Use 1/2" exterior grade plywood.

For installations on a rough (unfinished) deck to be covered later with tile, the tile thickness must not exceed 1-1/4".



## 2. INSTALLATION

### PREPARATION

For installations with 8" centers using copper tubing (1/2" nominal, 5/8" O.D.), cut tubing to the following lengths:

2 pieces: 2-15/16" long

1 piece: 2-3/8" long (for finished deck or rim installation only).

For other than 8" center installations, adjust the tubing lengths as needed.

### INSTALL SPOUT SUPPLY TUBE

Slide the brass washer from the bottom of the spout supply tube over the threads until the washer reaches the supply tube shoulder.

Insert the spout supply tube through the mounting hole from the top of the deck/rim. Ensure that the flat portion of the washer faces forward. The spout supply tube will be suspended by the washer.

Slide the plate (oriented with the tabs toward the deck) and washer onto the spout supply tube from the bottom, and thread on the mounting nut. Tighten the nut.

Secure the plate to the deck or wooden support with two wood screws.

**NOTE:** Leave the protective sleeve on the spout supply tube until the spout is installed.

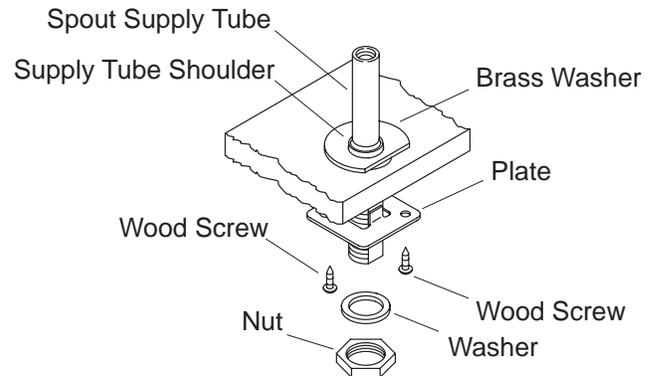


Fig. #2

### INSTALL VALVE BODIES

Thread one mounting nut, flange side up, followed by one fiber washer and one rubber washer onto each valve body.

Insert the 2-15/16" long copper tubes between the valve bodies and 1/2" tee. For a finished deck or rim installation only, insert the 2-3/8" long copper tube into the top of the tee.

**Do not solder the connections yet.**

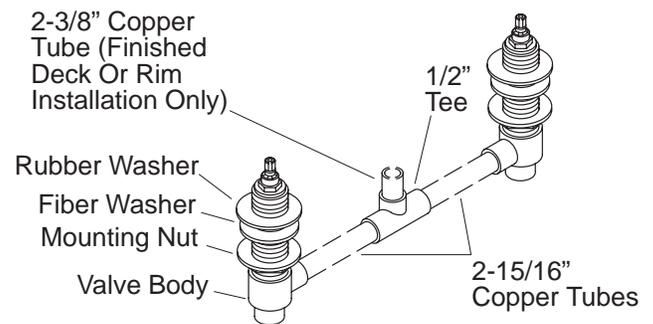


Fig. #3

**NOTE:** Orient the valve body marked "COLD" so it is on the right when facing the front of the faucet.

Insert the valve bodies through the mounting holes from the bottom of the deck/rim. For finished deck or rim installations, mate the copper tube from the tee with the spout supply tube. Hold it in place.

Install a collar with the flange side up on each valve body, and thread down so the distance from the top of the deck/rim to the top of valve stem is 1-13/16".

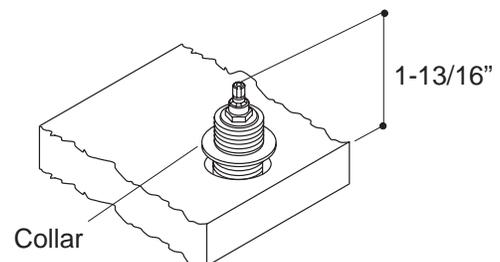


Fig. #4

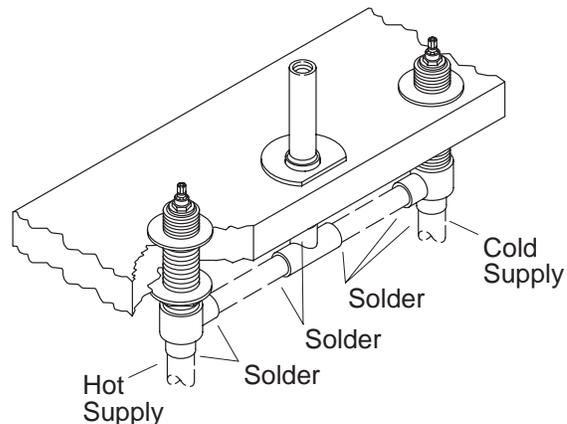
**NOTE:** For finished deck/rim installations, perform the procedures in this frame. For rough (unfinished) deck installations, omit the procedures in this frame and perform the procedures in frames **Fig. #6 thru Fig. #10**.

Tighten the mounting nuts on each valve body under the deck/rim.

Solder the copper tubes to the valve bodies, tee, and spout supply tube.

Solder the hot and cold water tubes to the valve body inlets. Ensure that the cold supply is on the right-hand side.

Proceed to Section 3.



**Fig. #5**

**NOTE:** This frame is applicable to rough (unfinished) deck installations only.

**Set Valve Body Height:** Use one of the following two formulas to calculate the valve body clearance required for the finish material at your installation.

If the tile to be installed is less than 1" thick, add that measurement to 2-1/16".

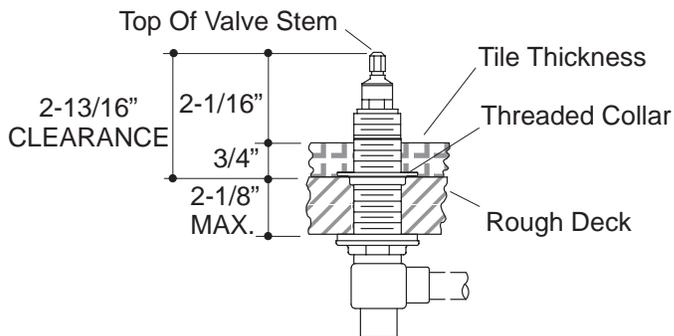
Example #1: Tile thickness (3/4") + 2-1/16" = 2-13/16" clearance.

If the tile to be installed is between 1" and 1-1/4" thick, add only 1" to 2-1/16".

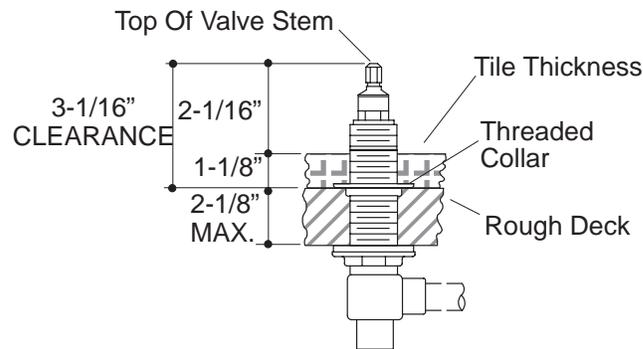
Example #2: Tile thickness (1-1/8") = 1" + 2-1/16" = 3-1/16" clearance.

Adjust the threaded collar until the dimension from the top of the valve stem to the top of the rough deck surface equals the clearance requirement you calculated.

Note this dimension. You will need to use it again after connecting the supply tube.



**EXAMPLE #1**



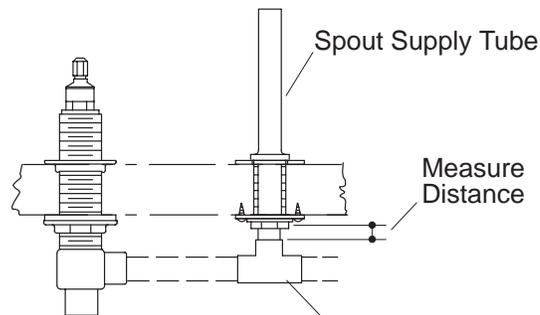
**EXAMPLE #2**

**Fig. #6**

**NOTE:** This frame is applicable to rough (unfinished) deck installations only.

**Supply Tube Connection:** Measure the distance from the bottom of the spout supply tube to the top of the tee.

Add 1" to this measurement, and cut a piece of 1/2" nominal (5/8" O.D.) copper tubing to fit into the supply tube and tee port.



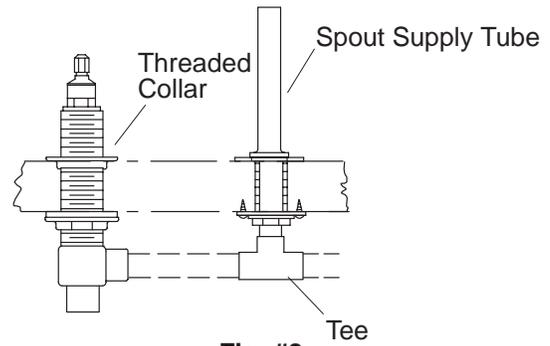
**Fig. #7**

**NOTE:** This frame is applicable to rough (unfinished) deck installations only.

Back off the threaded collars as far as possible without removing them. Pivot the valve bodies enough to remove the tee and two the pieces of tubing. If the valve body holes are smaller than recommended, it may be necessary to remove the entire valve body assembly.

Install the tubing into the tee. Mate the copper tube from the tee with the spout supply tube. Pivot the valve bodies onto the two pieces of copper tubing.

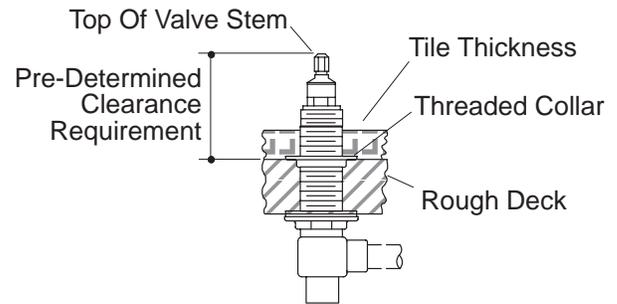
**Do not solder at this time.**



**Fig. #8**

**NOTE:** This frame is applicable to rough (unfinished) deck installations only.

**Reset Valve Body Height:** Adjust the threaded collars until the dimension from the top of sleeve to the top of the rough deck surface equals the clearance requirement you calculated in frame **Fig. #6**.



**Fig. #9**

**NOTE:** This frame is applicable to rough (unfinished) deck installations only.

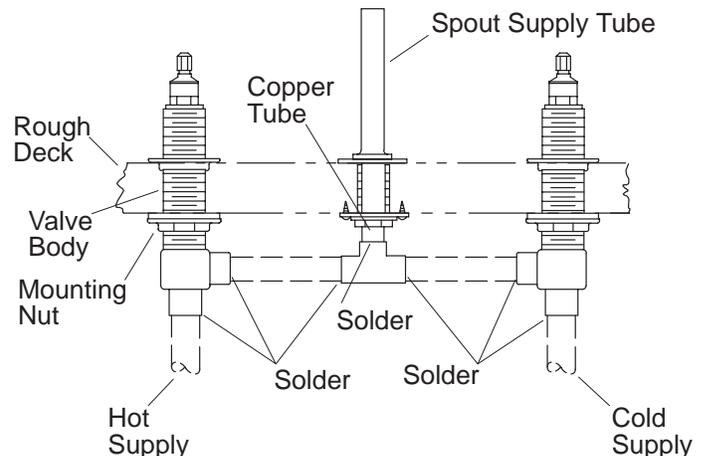
Tighten the mounting nuts on each valve body under the deck.

Solder the copper tubes to the valve bodies, tee, and spout supply tube.

Ensure that the cold water supply is on the right-hand side.

Solder the hot and cold water supply tubes to the valve body inlets.

Proceed to Section 3.



**Fig. #10**

### 3. INSTALLATION CHECKOUT (ALL INSTALLATIONS)

Thread a 3/8" pipe plug into the top of the spout supply tube.

Ensure that the valves are closed (cold fully counterclockwise, hot fully clockwise).

Turn on the main water supply and check the complete installation for leaks with the valves closed and open.

Close both valves. Turn off the main water supply.

**⚠ WARNING: Risk of personal injury.** Lines will be pressurized. Do not lean over pipe plug when turning or removing the plug.

Wrap a towel around the pipe plug to prevent water spray. Water will purge from the supply tube when you remove the plug.

Carefully back out the pipe plug to relieve the water pressure.

Thread the pipe plug into the spout supply tube. Leave the pipe plug installed until the spout and handle are installed.

Install the cardboard plasterguards over both valves and the spout supply tube. Leave in place until the spout and handle are installed.

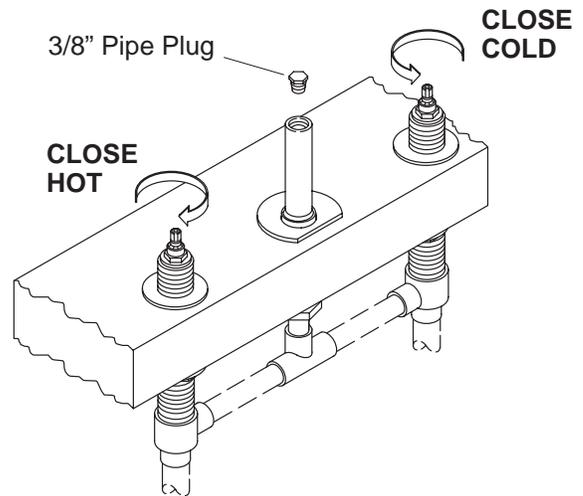


Fig. #11

### 4. INSTALL TILE (IF APPLICABLE)

Verify that there will be a 3/4" to 1-1/4" distance from the top of the valve shoulder to the top of the tile. If not, do not install the tile due to improper valve installation.

If proper clearance exists, install the tile up to the plasterguards on the valves and the spout supply tube.

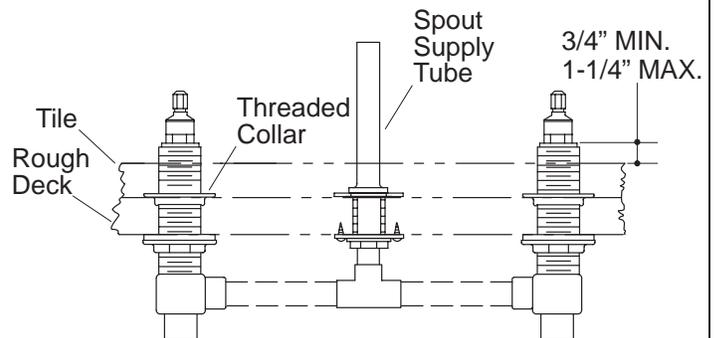


Fig. #12

## 5. INSTALL OPTIONAL HANDLES AND SPOUT

Ensure that the valves are closed (cold fully counterclockwise, hot fully clockwise).

Turn off the main water supply.

**⚠ WARNING: Risk of personal injury.** Lines may be pressurized. Do not lean over pipe plug when turning or removing the plug.

Wrap a towel around the pipe plug to prevent water spray. Water may purge from the supply tube when you remove the plug.

Carefully remove the pipe plug.

Remove the cardboard plasterguards from both valve bodies and from the spout supply tube.

Install the spout, using the spout instructions packed with the spout. If the spout supply tube must be cut, be sure to purge the supply tube of debris before connecting the spout.

Install the handles, using the instructions packed with the handles.

Ensure that the valves are closed (cold fully counterclockwise, hot fully clockwise).

Turn on main water supply.

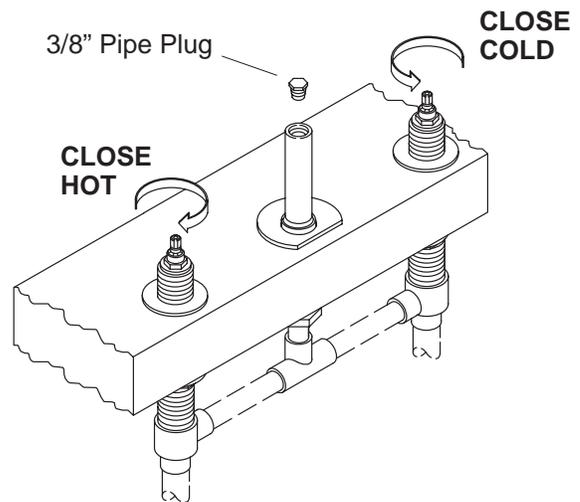


Fig. #13





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