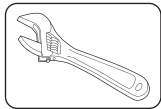
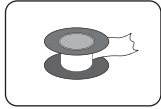


Tools You Will Need



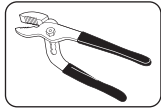
Adjustable Wrench



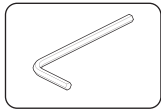
Pipe Tape



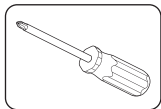
Silicone Caulking



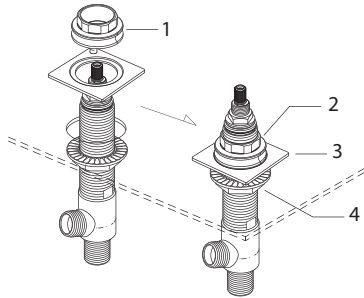
Groove joint plier



Allen Wrench

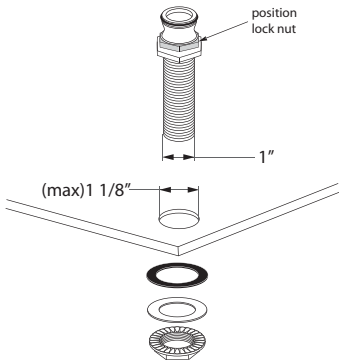
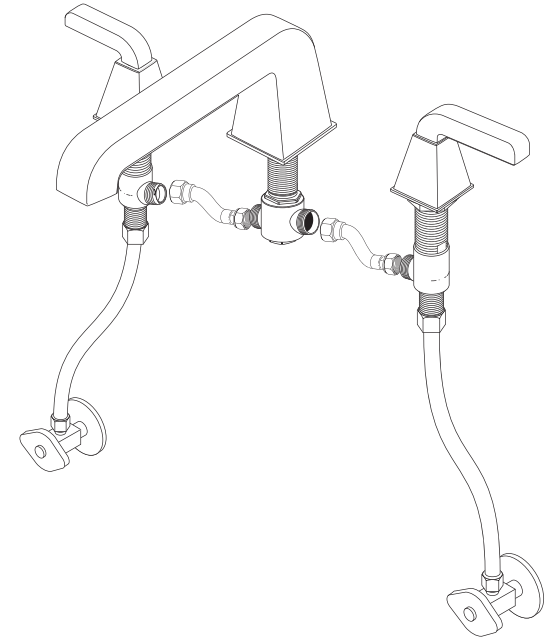


Phillips Screwdriver



Before installing make sure that if the hole are being drilled into solid surface deck that they are drilled no larger than 1.5". (See specific specs for Spout hole)
Install Valve bodies:
 To install the valve bodies first loosen the bottom lock nut on the neck of the valve such that the valve has enough room when place through the hole from under the counter top. Next, place the square handle flange over the valve body. Then, screw the top lock from the handle base on to the valve body, screw the lock nut down until it stops. Position the valve body and the square trim flange as desired. Make sure that the hole on the flange is positioned towards the back on the left side. Once the flange is in the desired position make sure that the top lock sits securely in the round indentation in the middle of the flange, and tighten the bottom lock nut until valve body is secure.
Hint: At this point you can test the handle tip to make sure that the stem position lines up properly with the square base. Otherwise you may need to loosen the valve body and adjust the position. (Repeat for other side)

Installing Handle Trim:
 When installing the handle trim it is important to make sure that the pin on the bottom of the base lines up correctly with the hole in the corner of the flange such that the set screw if facing the back once installed. Next, install the broach extensions as shown in the diagram. Simple place the extension over the cartridge stem and secure with the top down screw. Now place the square handle base over the valve stem and sliding it onto the lock nut positioning the pin into the hole. Tighten and secure the handle base with the allen key provided. Next, place the handle tip on to the stem turn the handle into the off position (pointing left for the hot side & pointing right for the cold side) Make sure that the square edges of the handle tip line up evenly with the square edges of the handle base and flange (If they do not then the valve body positioning may have to be adjusted) Place the white bushing ring onto the bottom of the handle tip and place the handle tip on to the valve stem in the desired position. Tighten and secure the handle tip with the set screw on the under side on the handle tip. (repeat for other side)



Drilling the hole for the spout:
 The quick connect shank threads are 1" in diameter. When drilling the hole in the deck surface make sure to drill a 1 1/8" diameter hole no larger. This will insure ease of installation. If by chance a hole is drilled larger than the flange portion of the spout shank then the shank must first be installed into the spout, and then install the entire assembly into the deck.
Positioning lock nut:
 The quick connect shank is able to be adjusted to fit with different installations that may require the height to the connect to be different. The nipple can be extended by turning it counter clock-wise and lowered by turning it in a clock wise direction. Once the height is set the connection nipple is lock in place by tightening the positioning lock nut. To tighten the positioning lock nut tighten the lock nut portion only turning it clock wise down until it locks against the flange surface of the shank. As most installations do not require this to be adjusted make sure that the positioning lock nut is tightened before installing the spout.
Installing the quick connect shank:
 Once the hole is drill at the correct diameter 1 1/8". Proceed to place the quick connect shank into the hole and tighten the lock nut from underneath the deck. Make sure the flange on the top and lock nut on the bottom make good contact with the deck surface to ensure that the shank is secured. The shank should be movable if twisting by hand.
 If the only the top nipple portion of the quick connect shank is turning refer to the position lock nut

HB recommends using a small amount of silicon grease lubricant on the o-ring of the quick connect nipple before installing the spout.

Installing the spout:
 After the quick connect shank is securely installed onto the deck surface, you are ready to install the spout. First make sure that the set screw in the back of the spout is loosened enough for the spout to slip over the quick connect nipple. Next, slip the spout onto the quick connect nipple. Press down such that you are applying pressure to the top back side of the spout to make sure that the spout is pressed fully down and tighten the set screw in the back with the allen key provided such that the spout is secure on the deck surface. HB also recommends using silicone caulking around the base flange of the spout to prevent water from leaking underneath the deck surface.

Connect the water supply lines:
 Finally connect the water supply lines from the hot and cold valve to the T-valve. Using the steel braided hoses supplied, connect one end first to the side outlets of the valve bodies and then the other end to the opening on the T-connector. End hex nut on the hose should be hand tightened plus and extra 1/2 turn with a wrench. Do not over tighten the hose connections.

Flushing the system:
 Finally you will need to flush and test the system. Turn the main water supply back on and turn on both the hot and cold valves. Let the water run for about 2-3 minutes. Check above and below the deck surface and at all major connection point for leakage.

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