

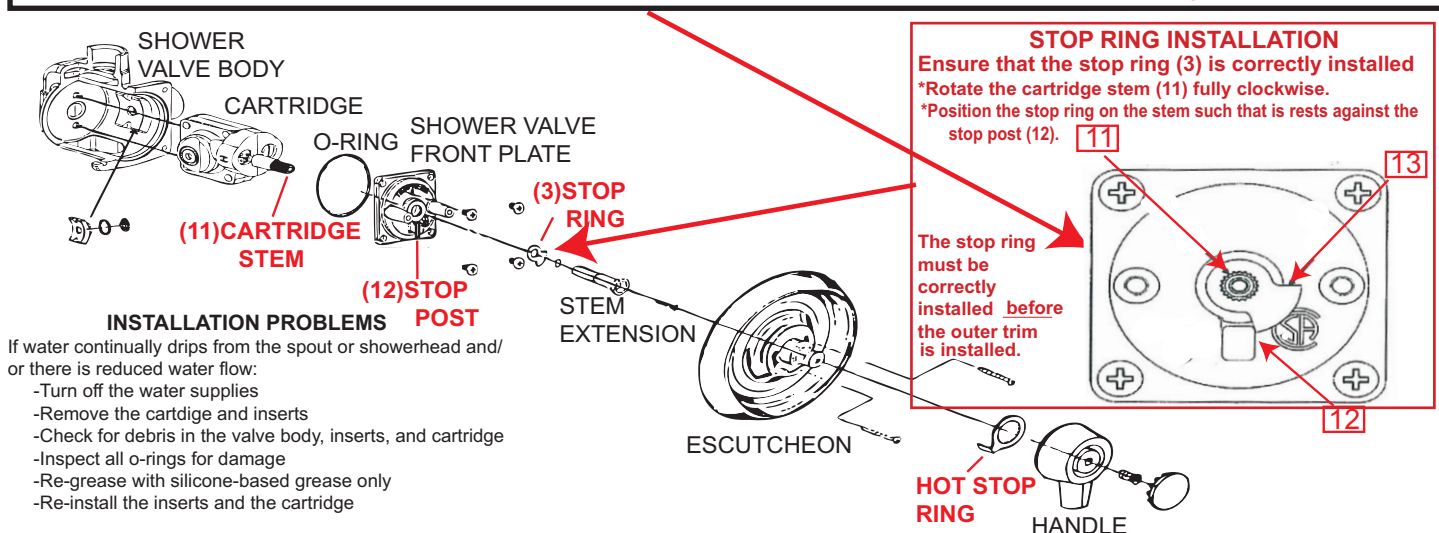


- 1 Turn off water supply to shower valve. Turn on shower valve and let drain thoroughly. Then turn valve off. (clockwise)
- 2 Remove handle cap and handle screw, remove handle. Note how & where handle stops against the escutcheon when in it's off position.
- 3 **Note where brass Hot Stop Ring is located on the escutcheon, then remove the brass Hot Stop Ring.**
- 4 Loosen and remove the 2 escutcheon screws that connect to the valve body behind the wall. Turn and/or Pull off the escutcheon assembly.
- 5 Place/push a towel thru hole in wall under the brass valve body. (this will catch any falling parts while installing)
- 6 ROTATE THE PLASTIC STEM EXTENDER GEAR **CLOCKWISE** UNTIL IT STOPS. Remove screw from inside of plastic stem extender and pull off extender.
- 7 Note the location of the brass stop on the valve cover plate --**VERY IMPORTANT!** Remove the stop and retaining o-ring (some models)
- 8 Remove all four screws and pull off brass cap. KEEP CAP O-RING SEPARATE.
- 9 Grab stem and pull the cartridge straight out of the valve.
- 10 Clean out the inside of the brass body behind the wall..some bodies have plastic inserts inside; if so, using tool pry them out and clean. Replace the o-rings if they look worn or cut. Put Silicone lube on these o-rings and re-install the plastic inserts.
- 11 **Put stem extender onto new cartridge stem and turn clockwise until it stops. Do not over-turn! Remove extender.**
- 12 Apply Silicone grease to the outside o-rings of the cartridge and insert the cartridge back into the valve body ("H" to your left)
- 13 Re-install o-ring into brass cap, re-install brass cap using the original 4 screws.
- 14 **Put the stem extender onto the stem and rotate clockwise until it stops. Remove extender.**
- 15 **Position the stop ring on the stem such that it rests against the stop post. If a retaining o-ring is provided, push it on.**
- 16 Install the stem extender using the original screw.

### BEFORE YOU BEGIN

READ ALL DIRECTIONS PRIOR TO INSTALLATION. ANY ALTERATIONS MADE TO THE VALVE OR CARTRIDGE OR FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE OR IMPROPER INSTALLATION AND WILL NULLIFY THE WARRANTY AS WELL AS INCREASE THE RISK OF SCALDING.

**-Ensure that the stop ring is correctly installed per the instructions below, otherwise a user could potentially disengage the cartridge with minimal force to the external handle. This would cause the valve to fail and the user would be unable to turn the water on/off or control the temperature.**



### INSTRUCTIONS REGARDING ESCUTCHEON INSTALLATION

- 1 Escutcheon back must seal to wall after it is installed...to do so it must either have a foam strip between it and the wall OR if it has an open groove in the back, fill that with a clear silicone caulk.
- 2 Insert the screws or the threaded studs into the brass valve body.
- 3 Mount Escutcheon (ready to seal...see #1 above) against wall. Look at the bottom of the escutcheon, not the 2 sides of the stops.
- 4 Line up so that it is straight and tighten up the screws OR, if it has the studs, tighten up with the nuts provided.
- 5 Before installing the handle, make sure to turn the handle driver counter-clockwise all the way until it stops.
- 6 For full hot range of operation, install the external brass handle stop against the left stop on the escutcheon.
- 7 To restrict the handle from turning on to full hot, adjust this hot stop so that it stops the handle rotation by setting the brass stop to hit the escutcheon stop before the handle turns to the full "on" position.
- 8 Look inside the handle, see stop, install handle so that the handle stops on top of the far right escutcheon stop.
- 9 Screw handle to escutcheon and install cap.
- 10 Rotate handle to make sure it rotates completely.