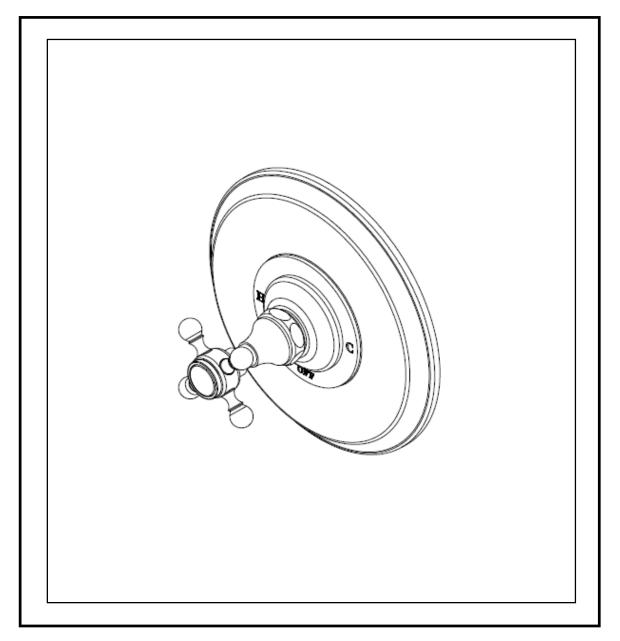


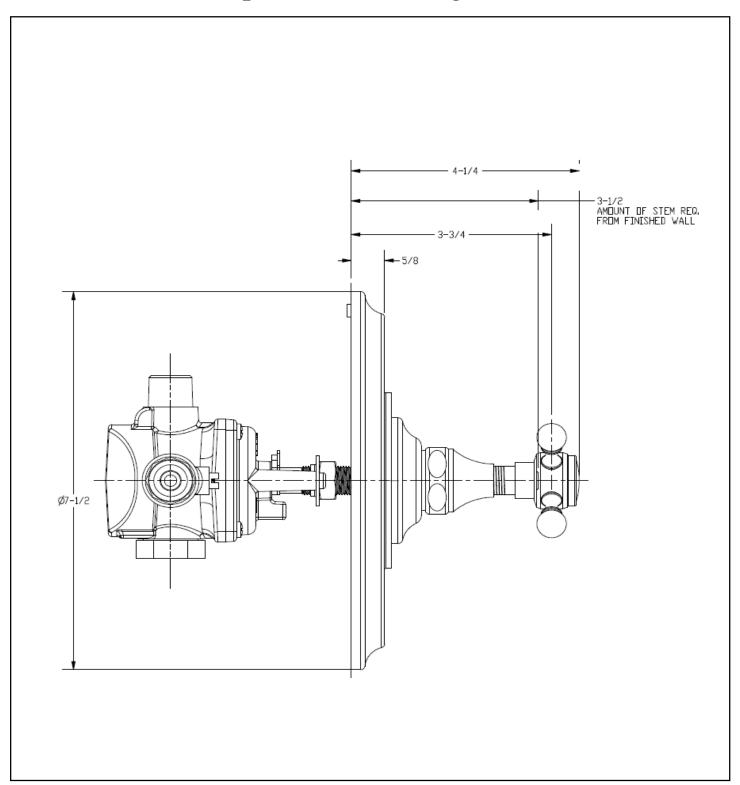
INSTALLATION INSTRUCTIONS



MODEL: EATON

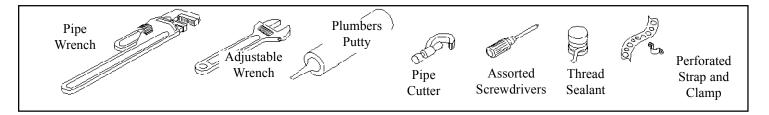
RH-5440

Restoration Hardware Balance Pressure Shower Set Specification Diagram



All Threaded Connections are 1/2" NPT

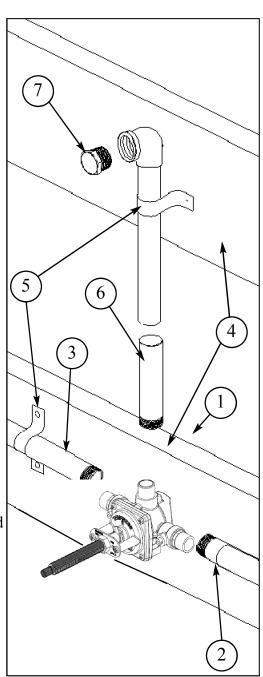
Common tools needed:



Installation Instructions

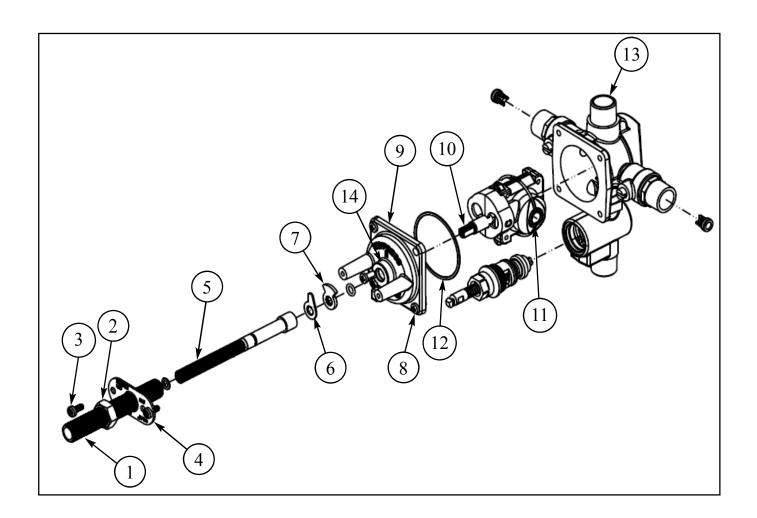
We Recommend Installation by a Licensed Plumbing Professional Valve Assembly

- Position VALVE (1) with the "S" in the up position
- The VALVES (1) 1/2" NPT inlets are colored blue for COLD SUP-PLY (2) and red for HOT SUPPLY (3).
- Apply thread sealant to the supply fittings and firmly tighten into VALVE (1) inlets. Under normal soldering conditions the removal of inlet filter/seat and mixing cartridge is not necessary; however, if brazing and / or induction heating is used removal is required. Whenever possible, it is best to perform all solder/brazing operations on piping prior to attachment to VALVE (1).
- VALVE (1) and / or SUPPLY (2,3) must be secured to CROSS BRACE (4) using PERFORATED STRAP (5) or equivalent.
- Position VALVE (1) to finished wall as mentioned on specification diagram.
- Apply thread sealant to SHOWER RISER (6) and attach to VALVE (1) outlet port marked "S".
- Secure SHOWER RISER (6) to CROSS MEMBER (4) using PER-FORATED STRAP (5) or equivalent.
- Apply PLUG (7) for test. Turn on both water supplies to valve and check for leaks. Note: Water pressure *must* be applied to both hot and cold inlet ports for proper valve operation.
- After inspection turn off water supply.



2. Setting The Temperature Limit Stop

- Remove the all-thread NIPPLE (1) and RETAINING SCREWS (2) RETAINING PLATE (4) and STEM (5) from the valve COVER (9).
- Remove the LIMIT STOP (6) see figure 2. Do not remove the MECHANICAL STOP (7). (If for any reason the MECHANICAL STOP (7) is removed refer to *Cartridge Removal and Replace* section below.)
- From the CLOSED position, rotate the CARTRIDGE STEM (10) counter-clockwise until the desired temperature is achieved.
- Place the LIMIT STOP (6) on the CARTRIDGE STEM (10) against the STOP BLOCK (14) located on COVER (9). Rotate the CARTRIDGE STEM (10) several times to make sure the stop is at the desired temperature setting.
- Replace the STEM (5), RETAINING PLATE (4) and RETAINING SCREWS (3) and all-thread NIPPLE (1) onto valve COVER (9). (NOTE: For stem to be fully seated into cartridge, all-thread nipple and locking nut must be tightly secured against retaining plate.)
- Proceed to the VALVE TRIM INSTALLATION.



2a. Cartridge Removal And Replacement

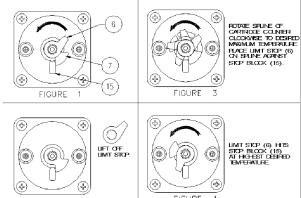
- Remove the all-thread NIPPLE (1), RETAINING SCREWS (3), RETAINING PLATE (4) and STEM (5) from the valve COVER (9).
- Remove the LIMIT STOP (6) and MECHANICAL STOP
 (7)
- Remove the COVER SCREWS (8), COVER (9) and cover O-RING (10).
- Carefully slide the CARTRIDGE (10) out of valve BODY (13). (If filter removal is necessary refer to *Cleaning the Filter* described in Trouble Shooting Section.)
- Replace CARTRIDGE (10) ensuring that the cartridge's O-RINGS (11) are in place and lubricated with plumbers (non-petroleum) grease. The "H" and "C" on the side of the CARTRIDGE (10) indicates the cartridges proper orientation to the appropriate inlet supply line.
- Once the CARTRIDGE (10) is installed, it is very important to confirm that the cartridges rear posts are correctly locked into the BODY (13) mating hole.
- Replace the cover O-RING (12), COVER (9) and tighten COVER SCREWS (8) firmly into place.
- To set the MECHANICAL STOP (7) rotate clockwise the CARTRIDGE STEM (10) until it stops. Warning: <u>Do not forcefully rotate stem closed.</u>
- Place the MECHANICAL STOP (7) onto CARTRIDGE STEM (10) as shown in figure 1.
- Replace LIMIT STOP (6) as described above in *Setting the Temperature Limit Stop*.

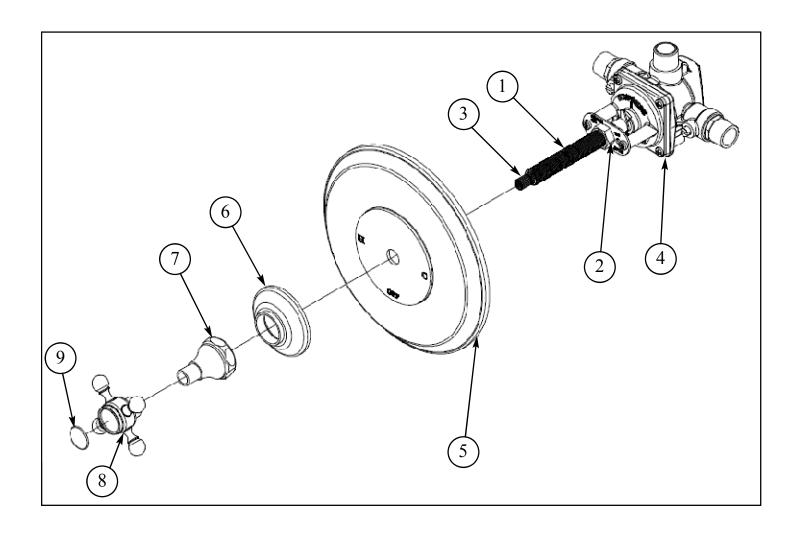
3. Valve Trim Installation

(Perform these steps after finished wall has been completed)

- The STEM (3) must be trimmed to 3-9/16" from finished wall. Remove STEM (3) by loosening NUT (2) and removing NIPPLE (1), NUT (2) and STEM (3). Trim STEM (3) to previously mentioned dimension.
- The NIPPLE (1) must be trimmed to 2-3/16" from finished wall or 1-3/8" less than STEM (3).
- Fasten STEM (3) and NIPPLE (1) onto VALVE (4). Use NUT (2) to lock NIPPLE (1) into place. Rotate STEM (3) to ensure there is no binding. If binding, loosen NIPPLE (1) until STEM (3) moves freely and does not wobble.
- Align cover PLATE (5) and slide onto valve NIPPLE (1).
- Place ESCUTCHEON(6) and BONNET (7) onto NIPPLE (1) and firmly tighten BONNET (7) in place to secure trim onto VALVE (4).

- Secure HANDLE (8) into place by tightening SCREW provided inside the HANDLE(8) assembly.
- Remove adhesive backing from BUTTON (9) and press onto HANDLE (8).

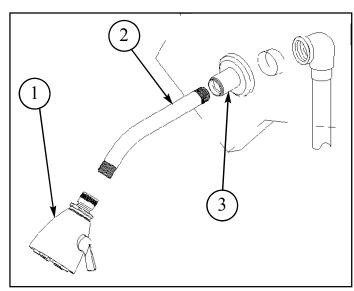




4. Showerhead Installation

For RH-5441, available in catalog and on web only. (Balanced pressure shower with Speakman Ultra Showerhead kit.)

- Slide SHOWER ARM (2) through the FLANGE (3).
- Apply thread sealant to both ends of ARM (2) and thread into fitting inside finished wall.
- Turn on water supply, check for leaks and make any final adjustments required.
- Open valve and flush shower line of debris.
- Slide FLANGE (3) against wall.
- Attach SHOWERHEAD (1) to end of ARM (2).



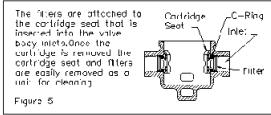
5. Test Installed Shower Set

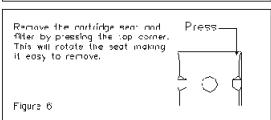
- Turn on the shower valve by rotating the handle counter-clockwise.
- Water mixing temperature to handle rotation is as follows: 1/4 to 1/2 = warm 1/2 to 3/4 = hot
 - 0 to 1/4 = cold 1/4 to 1/2 = warm 1/2 to 3/4 = hot

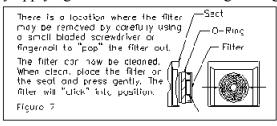
6. Trouble Shooting

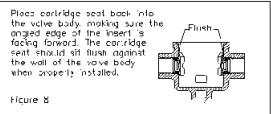
MALFUNCTION	CAUSE	REMEDY
Opening immediately to hot water.	Hot and cold water supplies have been connected in reverse.	Rotole contribge. (See Fage 4, Item no.2a)
Water crips after shutting off the valve.	Residual water in valve and pining. Incorrect setting of the mechanical alop agains, the atop black occasing a portially opened cartridge.	Allow approximately 3-8 minutes to ordin. Reset the mechanical stop (See Page 4, Item no. 20)
	O—ring seal on the inlet of the cort— ridge is faulty or seal ossembly is domaged.	Check the C—ring & sect for curs or overheating domage during installation. Replace if necessary.
Water insufficiently bot.	Adjustable handle position stop incorrectly set.	Refer to the instruction on "Setting Temperature Limit Stop."
Valve body too deep into wall.	The measured rough in or finished wall surface is incorrect.	Reset the valve.
No crilaw flow of hot or cold water.	Either the hot or cold sice is not fully pressurized	Verify that all service stops for activities the holl and cold are fully open and pressurfized.
	Cehr's cought inside the inlet of contridge.	Remove the cartriage (See Page 4), If datris is ladged in the inlet check valve, the white pappet will be sluck in the open (down) position. The deans can be removed with a straightened paper all or fine wire and move it in a circular motion to dislodge any debris.
	Debris cought inside filter or inlet ports.	Remove cartridge and follow Tigures 5 thru 8 belaw.

* WARNING: At no time try to stop dripping by applying extreme force or overtightening the handle.









Care and Cleaning

The lustrous finish on your Restoration Hardware Bathware fixture should be treated with care. Improper handling or cleaning can damage the surface of any metal finish. Use a soft cloth to wipe clean. Avoid harsh abrasive cleaner. Water contains lime and other mineral deposits that will be left on the surface after the water has evaporated. You can prevent these deposits from forming by always wiping the fixture dry immediately after use.

Technical Support and Customer Service

For technical support in the installation of your Restoration Hardware Bathware fixture, please call 1-866-417-5207 weekdays between the hours of 7:00am and 4:00pm PST.

For other questions regarding your order, to order additional components of the Restoration Hardware Bathware Collection, to order replacement parts, or to address warranty issues, please contact Restoration Hardware Customer Service at 1-877-747-4671.

8 EN-1741 RH-5440 REV