

GLENLEY PRESSURE BALANCE

DUAL SHOWER HEAD

SKU: 918460

BEFORE YOU BEGIN

We recommend consulting a professional if you are unfamiliar with installing plumbing fixtures. Signature Hardware accepts no liability for any damage to the wall, plumbing, shower, or for personal injury during installation.

Observe all local plumbing and building codes.

Unpack and inspect the product for shipping damage. If any damage is found, contact our Customer Relations team at 1-866-855-2284.

GETTING STARTED

- Ensure that you have gathered all the required materials that are needed for the installation.

TOOLS AND MATERIALS:

 Adjustable Wrench	 Flathead Screwdriver	 Phillips Screwdriver
 Safety Glasses	 Keyhole Saw	 Tape Measure
 Thermometer	 Strap Wrench	 Silicone Sealant (100% Neutral Cure)
 Painter's Tape	 Pliers	 Hex Wrench
 Long-nose Pliers	 Thread Sealant	 Pencil
 Drill		

For Warranty information, please visit: signaturehardware.com/services/warranty

REVISED 03/16/2020
CODES: 153846, 316695, 501837, 514911, 515430
153845, 316693, 330696, 514910, 515429
316691, 321606, 340722, 348590, 393068
226493, 243967, 316692, 340724, 393071
393064, 515425, 393066, 393063, 515423
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GLENLEY PRESSURE BALANCE

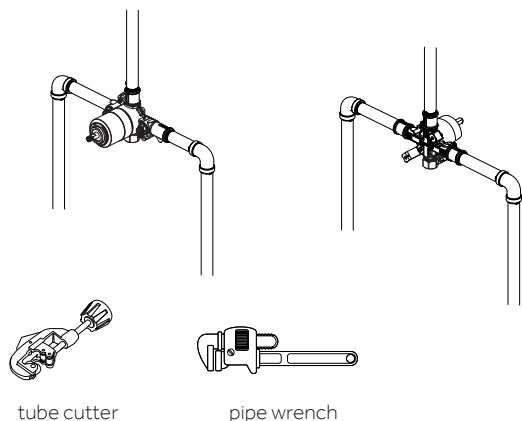
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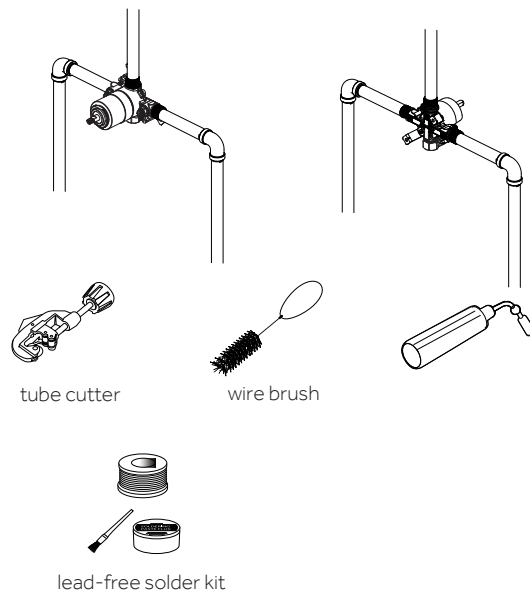
If you are replacing your plumbing valve, please review the common plumbing methods illustrated below (Copper, IPS). Remove the existing handle and valve trim before replacing your valve. Please follow all local building and plumbing codes.

Use a wire fitting brush to thoroughly clean the brass inlets before soldering copper to the valve. Do not use push-fit fittings for tub spout outlet. Do not use PEX for tub spout outlet.

IPS



Copper (Soldering)



Note: Before soldering, remove the cartridge, stop valves and diverter cartridges.

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PRESSURE BALANCE VALVE INSTALLATION

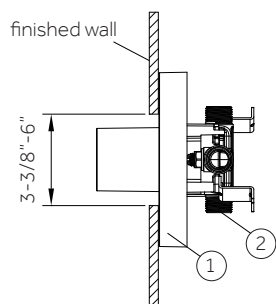
1. Shut off the water supply.

2. Verify that the hole sizes and position of the holes in the wall are correct. The shower outlet hole should be 1-1/4" diameter. The recommended valve depth to the finished wall is 1-1/2". Ensure that the valve body cover is flush with the finished exterior surface of the wall. Position the valve body correctly in the wall with the side marked "UP" pointed upward.

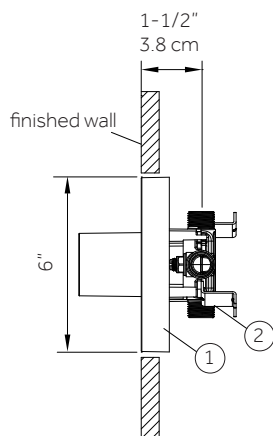
3a. **Thin Wall Installation:** Are usually built up with materials such as fiberglass tub surrounds and will be the main source of support for the valve. The plaster guard (1) remains attached to the valve.

3b. **Thick Wall Installation:** Are usually built up with materials such as cement board, drywall, tile, etc. The plaster guard (1) is positioned so that it is flush with the finished wall. This ensures that the valve will be at the correct position to accept the trim. The depth for the valve body (2) in wall is measured from the center of the shower outlet to the finished wall surface. The accepted depth distance is 1-1/2"

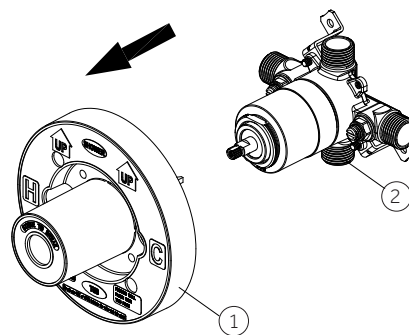
Thin Wall Installation



Thick Wall Installation

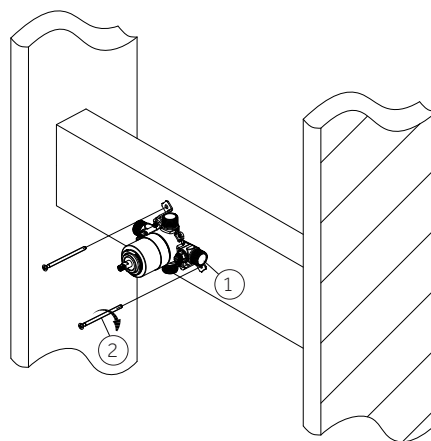


4. Remove the plaster guard (1) from the body (2).



5. Fasten the body assembly (1) to cross brace with mounting screws (2).

Note: Be sure to position the body (1) correctly in the wall, with the side marked "UP" facing upward.



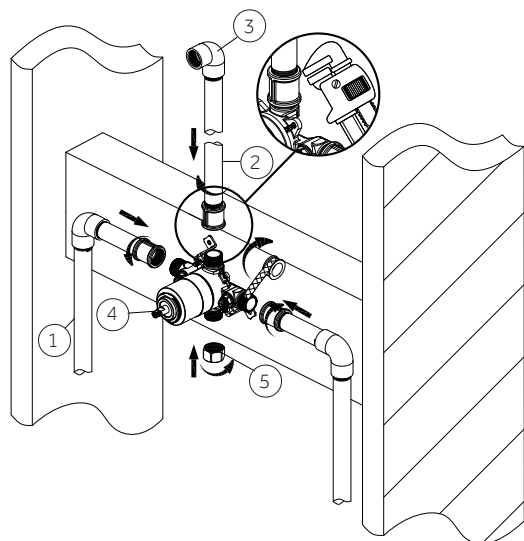
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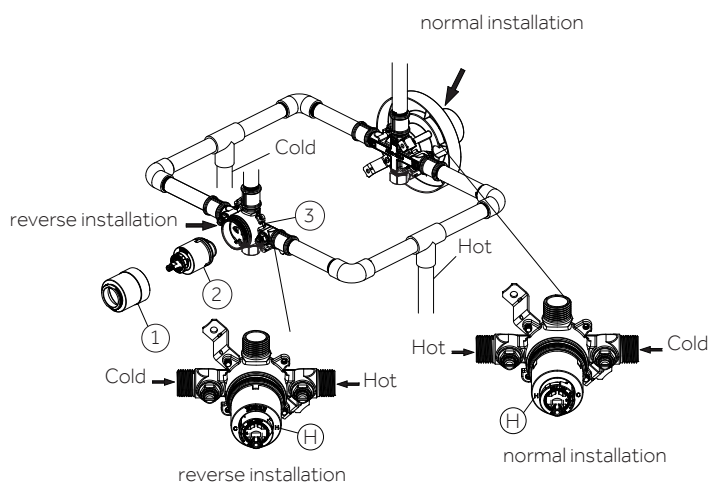
6. Wrap plumbers tape around the pipe threads in a clockwise direction. Connect the hot and cold water supply lines (1) and the shower outlet pipe (2) by threading them into the valve body (4) in a clockwise direction. Then insert the plug (5) into the bottom of the valve body (4). Tighten the pipes to the valve body (4) with a pipe wrench. Connect the pipe elbows (3) to the end of the shower outlet.

Notes: The hot water supply lines go into the "H" inlet, and the cold water supply lines go into the "C" inlet.



7. If the hot and cold inlets are reversed (hot on right and cold on left), remove bonnet (1) from the valve body (3) with reversed supply connections. Rotate the cartridge (2) 180°, so H appears on the right. Install the cartridge making sure the key is fully engaged with the slot in the valve body (3). Slide the bonnet (1) over the cartridge (2) and thread them onto the valve body (3). Hand tighten securely.

Note: Do not install the valve body (3) upside down.

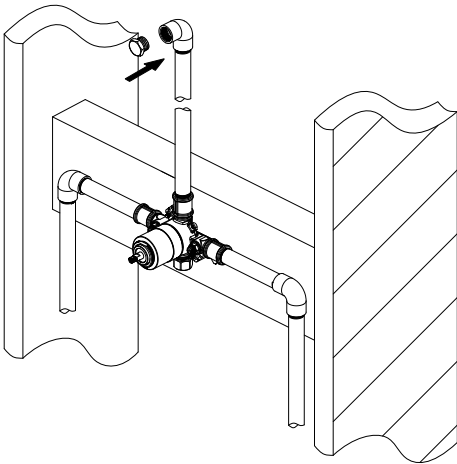


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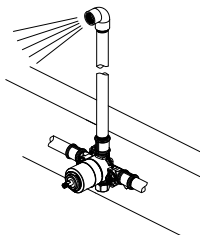
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8. Use 1/2" iron pipe plugs to seal shower outlet. Turn cartridge stem counterclockwise to full on mixed position. Turn on hot and cold water lines to full open position for one minute each. Check for leaks. Shut off water at faucet. Slowly remove pipe plug from shower outlet to relieve pressure.

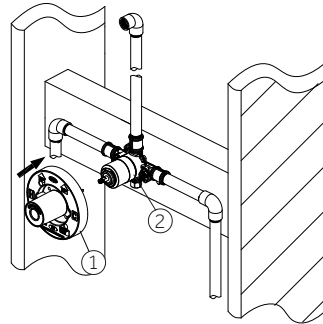


9. Turn on water allowing water to flow from shower outlet until all foreign matter has cleared the line. Shut off water at faucet.

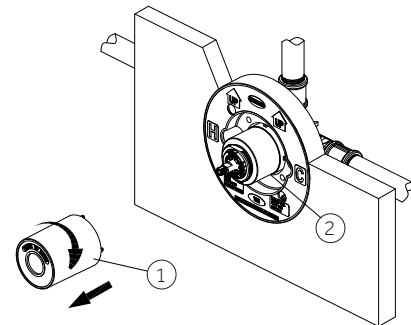


10. Place the plaster guard (1) onto the valve body (2).

Note: Be sure to position the plaster guard (1) correctly onto the valve body (2), with the side marked "SHOWER" facing upwards.



11. Before adjusting the temperature, remove the plastic cap (1) from the valve body (2) by twisting the cap in a clockwise direction.



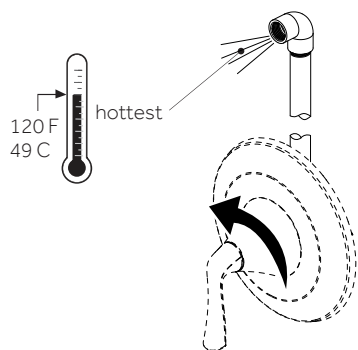
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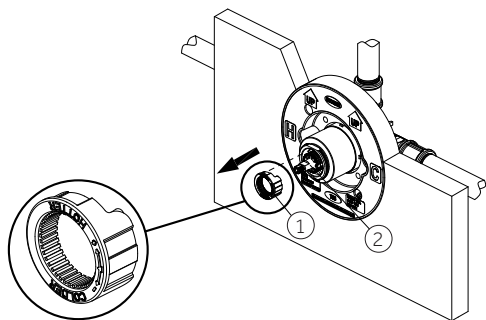
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12. Rotate the lever counterclockwise until the water is to the maximum desired temperature, not to exceed 120 degrees F/49 degrees C. Seasonal maintenance of the maximum outlet temperature may be required due to changes in groundwater temperature.

Note: Turn lever to the off position once temperature is set.

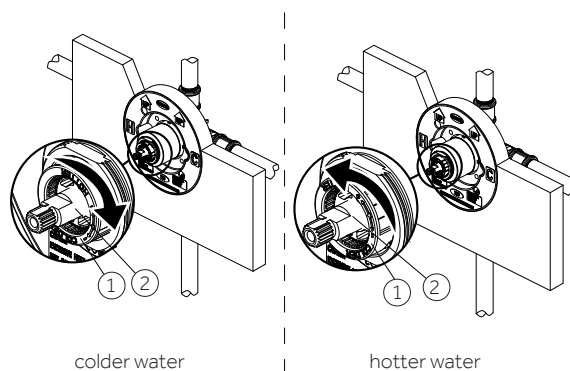


13. Removing the limit stop ring, remember the position of the limit stop ring (1) on the cartridge assembly (2). Remove the limit stop ring (1) from the cartridge assembly (2).



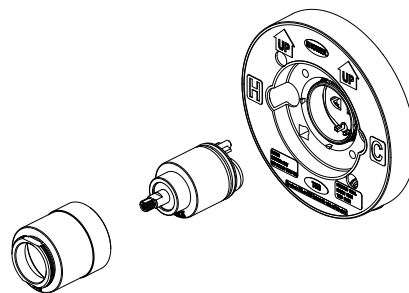
14. For colder water, adjust the limit stop ring (1) in a clockwise direction and reinstall the limit stop ring (1) onto the cartridge assembly (2). For hotter water, adjust the limit stop ring (1) in a counterclockwise direction and reinstall the limit stop ring (1) onto the cartridge assembly (2).

Note: A thermometer can be held in the running water to aid in reaching the desired water temperature.



15. If faucet leaks from spout, shut off the water supplies and replace the cartridge (1).

Note: Install cartridge (1) correctly for proper handle rotation.



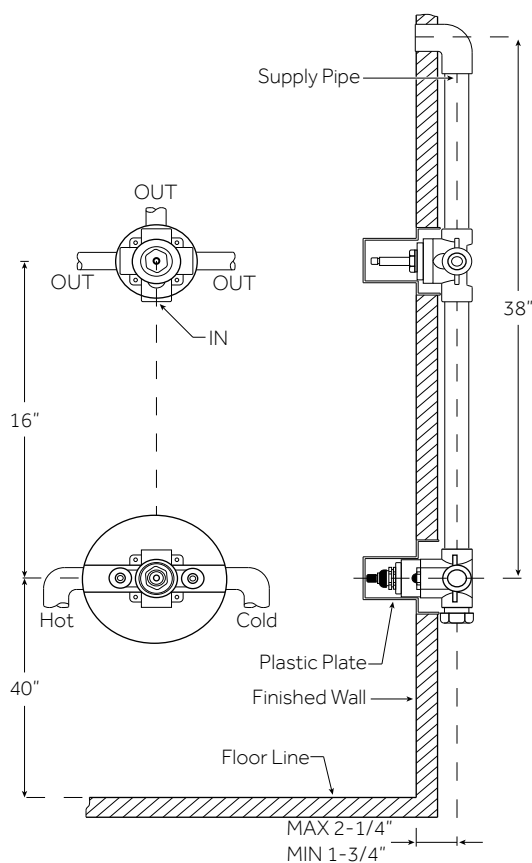
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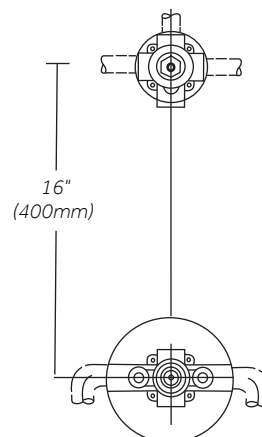
BEFORE DIVERTER VALVE VALVE INSTALLATION

1. Do not apply direct heat to the diverter valve body. Excessive heat will damage the plastic valve components and plastic guard.
2. Do not remove the plaster guard from the diverter valve until instructed to do so.
3. For installation, the diverter valve is aligned with the thermostatic.

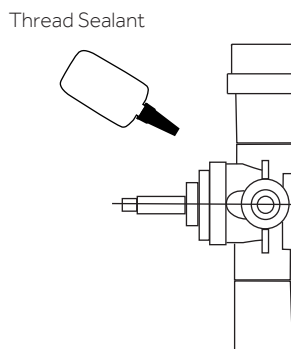


DIVERTER VALVE INSTALLATION

1. Shut off the main water supply. Flush all pipes thoroughly before installation.
2. The distance from the supply valve center to the diverter valve must be minimum of 16" (400mm).



3. In the wall, make a minimum hole of 4" diameter for the diverter valve installation. Secure valve to wood blocking.
4. Apply thread sealant to inlet port threads and connect the water supply to the diverter valve inlet.



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5. The plaster guard is used as the installation guide for the valve. The plaster guard should be flush with the finished wall once the diverter valve is installed.

6. Connect the inlet of the diverter valve with the outlet of the supply valve in the 1/2" or 3/4" pipe or tube, using the inlet and outlet arrows as a guide.

7. Remove and discard the plaster guard.

OUTLET CONNECTIONS

1. There are 3 outlets on the diverter valve, providing 3 separate connections. Each outlet will connect one end fixture, for example, showerhead, hand shower and the tub spout.

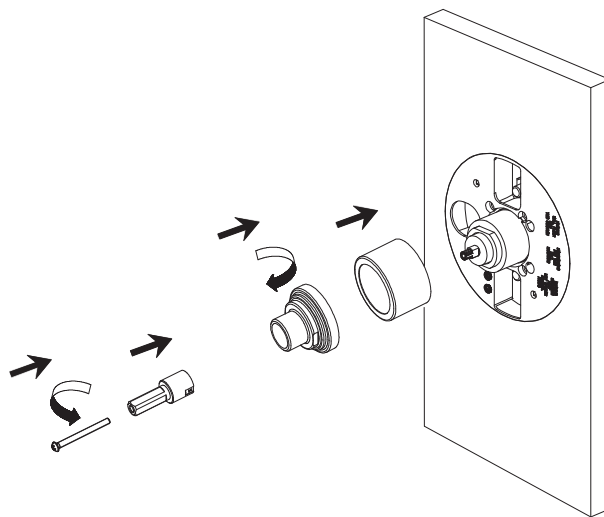
2. The outlet sequence will start from the top, the right and then the left.

3. After outlets have been installed turn on the water supply to the diverter valve and check for leaks. Then turn the water off again.

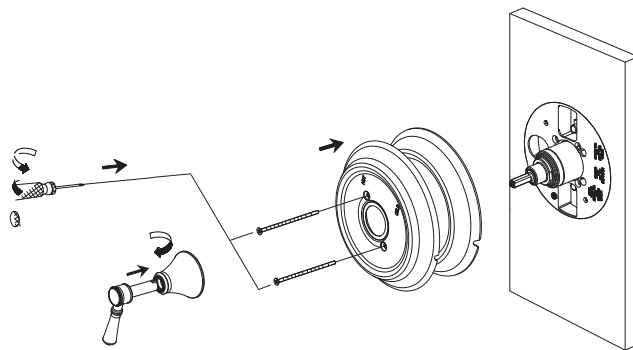
TRIM INSTALLATION

Pressure Balance Trim

1. Secure parts as shown below.



2. Install escutcheon and handle onto valve, as referenced in below installation.



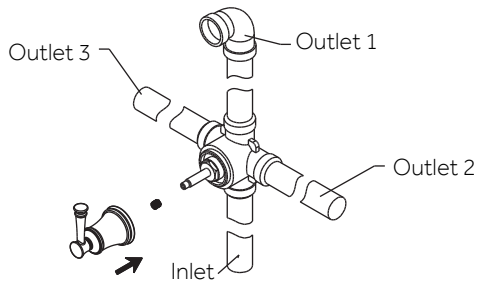
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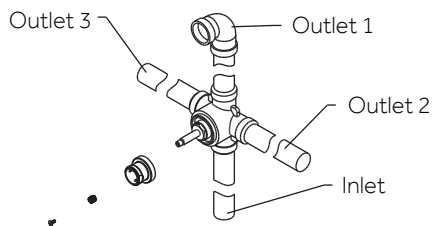
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Diverter Trim

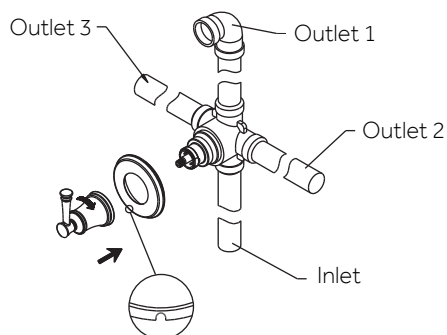
1. Place the brass stem extension and handle on valve body. Position handle to align with outlet 1. Remove the brass stem extension and handle.



2. Screw nut onto thread section of valve body. Insert the brass stem extension to valve body. Tighten screw.

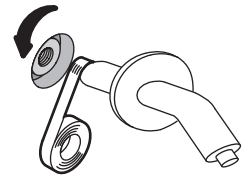
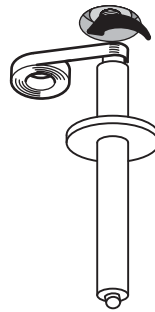


3. Position escutcheon on valve body with drain hole at the bottom. Place handle onto the brass stem extension and tighten handle seat.

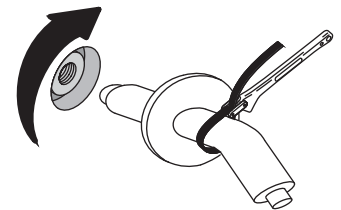
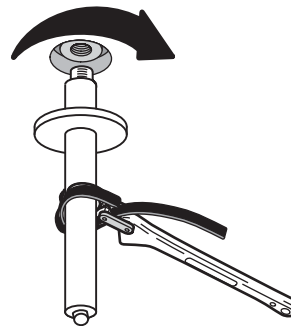


COMPONENT INSTALLATION

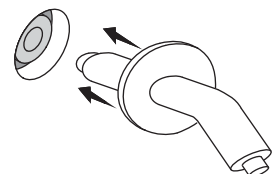
1. Apply plumbers tape to the threads of the shower arm.



2. Install the shower arm using a strap wrench.



3. Install the escutcheon.

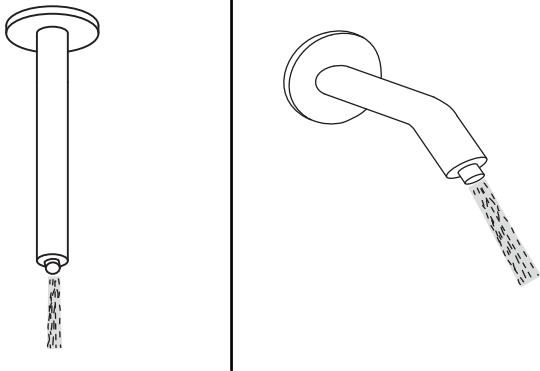


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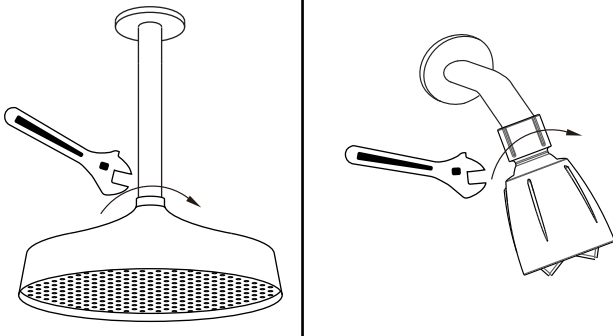
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4. Run water to flush out any debris.



5. Install shower head on shower arm. Thread the ball onto the shower arm clockwise.



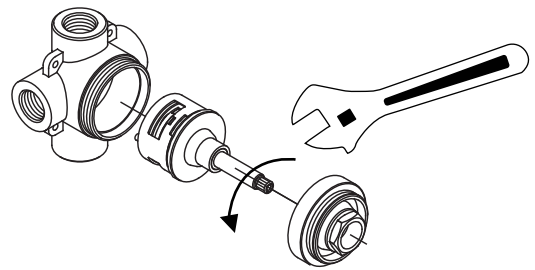
CARE INSTRUCTIONS

To preserve the finish of your product, apply non-abrasive wax. Any cleaners should be rinsed off immediately. Do not use abrasive cleaners on the product.

REMOVAL OF CARTRIDGE FOR MAINTENANCE

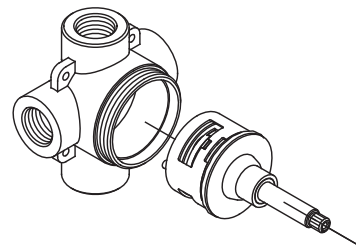
1. Remove the face plate, handle, and housing.

2. Release the top cover with wrench in counterclockwise direction



3. Grasp the cartridge stem and pull out the cartridge, making note of correct position for seal.

4. Place the cartridge into the transfer valve body and ensure the seals are in the correct position.



5. Position the pins correctly and match the body position holes to fit in securely.

6. Reassemble the top cover to the transfer valve by turning it clockwise until hand tight. Then turn additional 1/2 turn with a wrench.

Note: Make sure the handle stem is positioned correctly.