

Figure 2 Mounting valve



Important! Do not substitute Tub Spout with restrictive fittings such as PEX, CPVC or outlet accessories such as a ledge hose and spray that would spout, subject the valve excessive internal back pressure, otherwise operation will be compromised.

5) Remove protective shield

If attached in Step 3, then remove shield snap fitted over the end of valve spindle once valve is securely installed and wall finish work has been completed.

6) Adjust valve packing nut

Reference figure 3

- Turn hot & cold supplies on. Valve will not operate unless both hot and cold water supply pressures are on.
- Place handle over control spindle stem.

 Adjust *packing nut* for positive frictional resistance as handle is rotated from shutoff position across adjustment range.

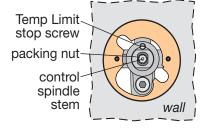


Figure 3 Valve adjustments

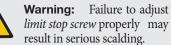
7) Flush system and check for leaks

- Turn valve to the warm position and run for a few minutes.
- If system is dirty, remove valve spindle in center of valve to ensure proper flushing. (See service instructions.)

 Check for leaks around valve assembly and all pipe fittings.

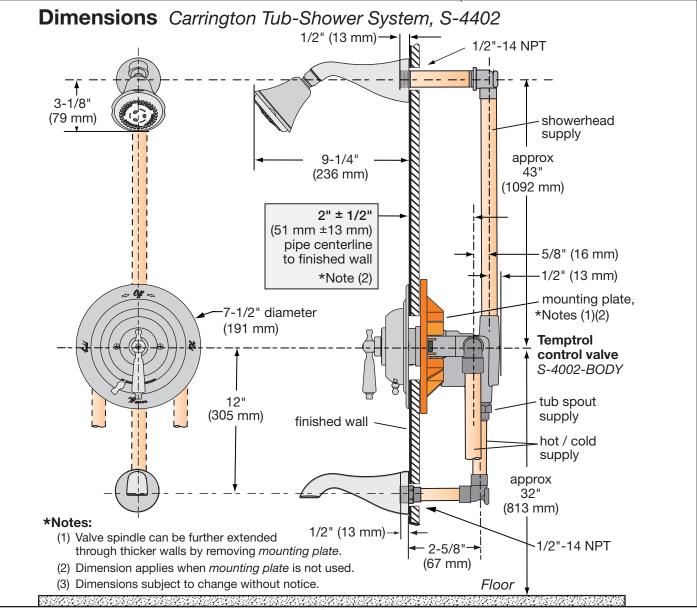
8) Set Temp Limit stop screw Reference figure 3

The limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.



- Place handle on control spindle and open valve to maximum desired temperature.
- Turn limit stop screw clockwise until it seats.

Note: Do not install positive shut-off devices on control valve outlet or devices that do not allow the valve to flow at least 1.5 gpm.



Trouble Shooting Chart

Both hot and cold water supplies are not turned on.	Turn on both supplies. Valve will not operate
	unless both hot and cold water pressure is on.
Hot and cold washers are worn or foreign matter (dirt, chips) is lodged between washers and seat surfaces.	 Replace washers using <i>control spindle washe</i> <i>repair kit</i>, p/n TA-9. Replace hot & cold seats using <i>hot/cold seat</i> <i>repair kit</i>, p/n TA-4.
Pressure-balancing piston housed in spindle assembly is restricted from free movement by foreign matter.	 Open valve halfway, remove handle and tap spindle with plastic hammer. Check water pressure balancing piston in control spindle. See service instructions. Replace control spindle, p/n TA-10.
Same as above	Same as above
Same as above	Same as above
Overdraw on hot water supply (i.e. running out of hot water).	Reduce maximum flow by using volume control adjustment on valve or showerhead. This will allow longer period of use before overdrawing hot water supply.
Valve is piped incorrectly (i.e. the hot supply is piped to the valve's cold inlet and the cold supply is piped to the hot inlet.)	If piping is accessible, correct connections to the valve. If piping is not accessible, order a <i>reverse seat and tool kit</i> , p/n T-108. Older installations may also require replacing the hot seat, <i>hot/cold seat repair kit</i> , p/n TA-4.
 Replace both seats even if only appears worn. 	following:
 Install and tighten both seats to 15 f pounds of torque. 	the piston.
Control spindle washer repair kit Order p/n TA-9.	(2) Try soaking in household vinegat and repeat step (1).
 Remove <i>cold washer</i> by holding spin using valve handle and unscrew of 	cold
pliers.	removal of the piston.
Checking water pressure balancing piston	Valve re-assembly Reassemble by reversing above procedures.
 assembly houses the water pressubalancing piston which is the heart of valve. Remove control spindle assembly. Shake spindle assembly and listen clicking noise. Piston should be free to spindle b	the After the <i>control spindle assembly</i> (TA-10) is threaded back into the spindle cap assembly (T-12A) ensure <i>control spindle</i> is rotated 1/2 turn clockwise from its maximum counter clockwise rotational lide position. Failure to do this will damage
	 between washers and seat surfaces. Pressure-balancing piston housed in spindle assembly is restricted from free movement by foreign matter. Same as above Same as above Overdraw on hot water supply (i.e. running out of hot water). Valve is piped incorrectly (i.e. the hot supply is piped to the valve's cold inlet and the cold supply is piped to the hot inlet.) Replace both seats even if only appears worn. Install and tighten both seats to 15 fr pounds of torque. Control spindle washer repair kit Order p/n TA-9. Remove control spindle assembly. Remove cold washer by holding spin using valve handle and unscrew of washer retainer using channel I pliers. Remove hot washer by removing washer screw. Checking water pressure balancing piston The perforated end of the control spin assembly houses the water pressubalancing piston which is the heart of valve.

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