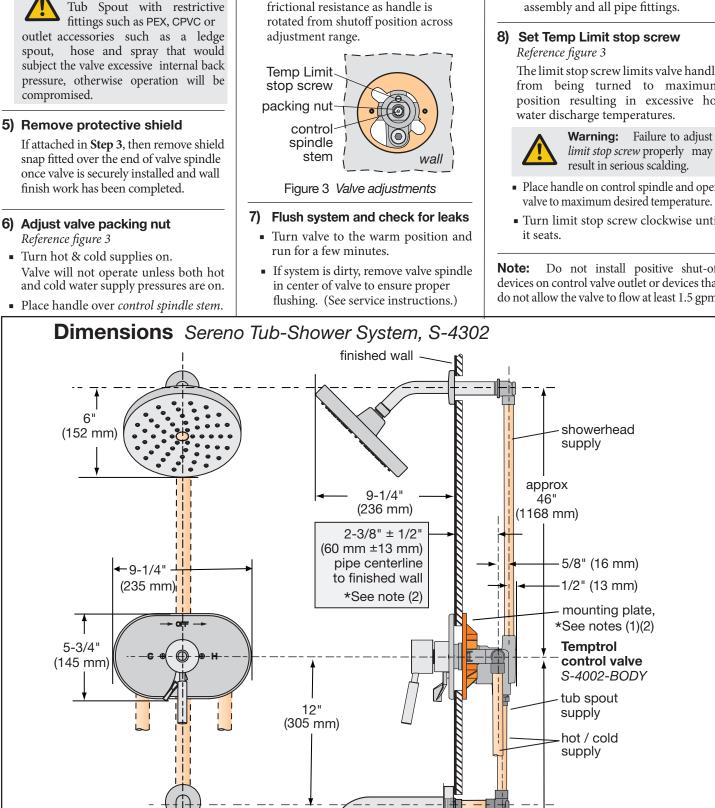


Figure 2 Mounting valve



Adjust *packing nut* for positive

Important! Do not substitute

 Check for leaks around valve assembly and all pipe fittings.

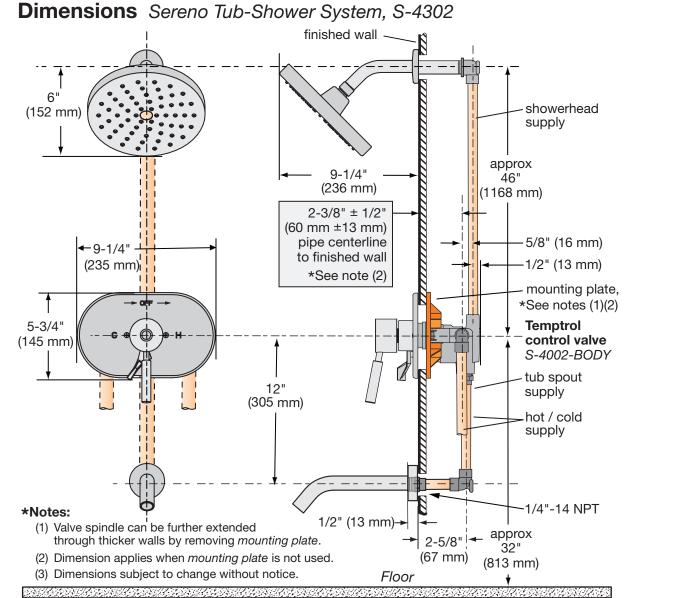
8) Set Temp Limit stop screw Reference figure 3

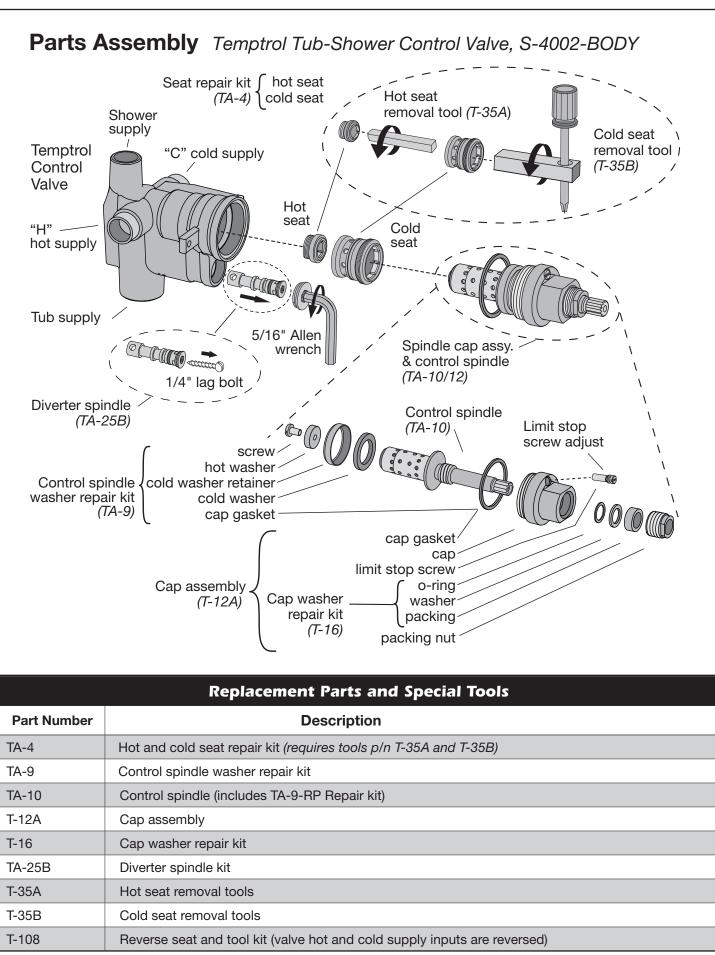
The limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.

result in serious scalding. Place handle on control spindle and open valve to maximum desired temperature.

Turn limit stop screw clockwise until

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

Problem	Cause	Solution
Valve will not pass water.	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.
Valve leaks when shut off.	Hot and cold washers are worn or foreign matter (dirt, chips) is lodged between washers and seat surfaces.	 Replace washers using <i>control spindle washer</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.
Temperature control handle is turned from cold to hot (or hot back to cold) and volume from spout or head is not constant.	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 <i>water pressure balancing piston</i> in <i>control spindle</i>. See service instructions. Replace <i>control spindle</i>, p/n TA-10.
Valve delivers sufficient quantity of cold, but little hot, or the reverse.	Same as above	Same as above
Temperature varies without moving handle.	Same as above	Same as above
Valve delivery temperature reduces gradually during use; handle must be turned to hotter positions to maintain constant temperature.	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 delivers hot water when initially opened. Water turns colder as handle is rotated in a counter-clockwise direction toward the hot position.	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.
Service Instructions Removing control spindle assembly Ref. parts assembly figure)	 Replace both seats even if only appears worn. 	• If piston appears restricted then do the following:
• Shut off water supply to valve and remove control valve handle and dome cover.	 Install and tighten both seats to 15 f pounds of torque. 	the piston.
 Remove escutcheon plate by first removing escutcheon screws. 	Control spindle washer repair kit Order p/n TA-9.	(2) Try soaking in household vinegar and repeat step (1).
• Turn valve's <i>control spindle</i> to half way position between minimum and maximum rotation.	 Remove <i>control spindle assembly</i>. Remove <i>cold washer</i> by holding spin using valve handle and unscrew of 	cold
Important: Failure to do this can damage control spindle assembly.	 <i>washer retainer</i> using channel lock pliers. Remove <i>hot washer</i> by removing <i>hot washer screw</i>. 	
• Unscrew both <i>spindle cap</i> and <i>control spindle assembly.</i>	Checking water pressure balancing piston The perforated end of the <i>control spir</i>	Valve re-assembly Reassemble by reversing above ndle
 Hot/Cold seat repair kit Order p/n TA-4, T-35A and T-35B. Installation requires both hot & cold removal bools, p/n T-35A & T-35B. Remove control spindle assembly. Remove both seats with removal tools. 	 assembly houses the water pressubalancing piston which is the heart of valve. Remove <i>control spindle assembly</i>. Shake spindle assembly and listen clicking noise. Piston should be free to s back and forth the full length of its trav 	theAfter the control spindle assembly (TA-10)is threaded back into the spindle cap assembly (T-12A) ensure control spindle is rotated 1/2 turn clockwise from its maximum counter clockwise rotational position. Failure to do this will damage
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