

# Tub-Shower System S-5302 **Installation Brief**

#### **Model Number**

S-5302 Tub-Shower System

#### **Decorative Finish Code**

append to part numbers if applicable

-STN Satin Nickel

-BLK Polished Graphite

### **Rough-in Installation**

Control valve, piping & fittings Reference rough-in dimension illustr on page 2 as required.

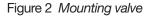
#### 1) Determine wall thickness

- Determine type of wall and wall thickness where valve will be mount
- Consider whether to use mounting by reviewing figure 2 below.
- Skip ahead to Step 3 if mounting plate will not be used.

Attach mounting plate to value Seat mounting plate against valve assembly as illustrated in figure 1.



Number         302       Tub-Shower System         ative Finish Code         o part numbers if applicable         STN       Satin Nickel         BLK       Polished Graphite          Chrome (standard)	Tools & Materials	<ul> <li>Need Help?</li> <li>Contact Symmons customer service at (800) 796-6667, (781) 848-2250, customerservice@symmons.com Mon - Fri 7:30 am - 7:00 pm EST</li> <li>Please check Symmons website for technical help, the latest product information and warranty policy. www.symmons.com/service</li> </ul>
h-in Installation valve, piping & fittings the rough-in dimension illustration 2 as required. Firmine wall thickness rmine type of wall and wall ness where valve will be mounted. ider whether to use mounting plate viewing figure 2 below. ahead to <b>Step 3</b> if mounting	Figure 1 Mounting plate         3) Attach protective shield         • Reference figure 2 to determine whether shield is required.         • Attach plastic protective shield by snap fitting over end of valve spindle.	<ul> <li>4) Install piping, fittings and control valve Piping and fittings not supplied</li> <li>Control Valve Install valve through cutout hole in wall as specified in figure 2 below and dimension illustration on page 2.</li> <li>Showerhead (S on valve) Pipe from outlet port on valve marked S to showerhead mounting arm location.</li> <li>Hot &amp; Cold Supply (H &amp; C) Pipe hot water supply to valve input marked H and cold water supply to valve input marked C.</li> <li>Tub Spout (T on valve) Pipe from outlet port on valve marked T to tub spout.</li> </ul>
will not be used. <b>ch mounting plate to valve</b> mounting plate against valve nbly as illustrated in figure 1.		
<ul> <li>Walls for using T-177 mountin</li> <li>Fiberglass or acrylic walls (requined in the problem of the pro</li></ul>	ed) nal) ) max finished wall finished wall finished wall finished wall finished wall finished finished wall finished fin	off" /hen plate d) t hole size





**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.

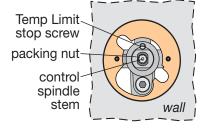


Figure 3 Valve adjustments

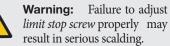
#### 7) Flush system and check for leaks

- 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.

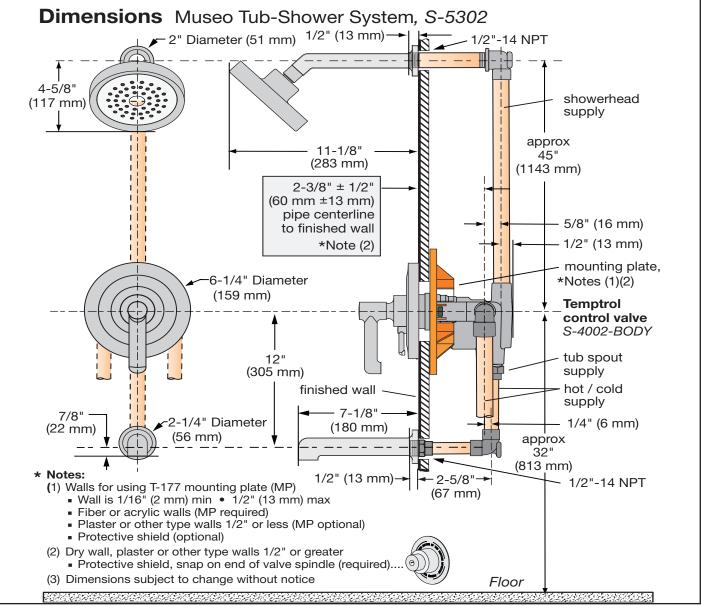
#### 8) Set Temp Limit stop screw Reference figure 3

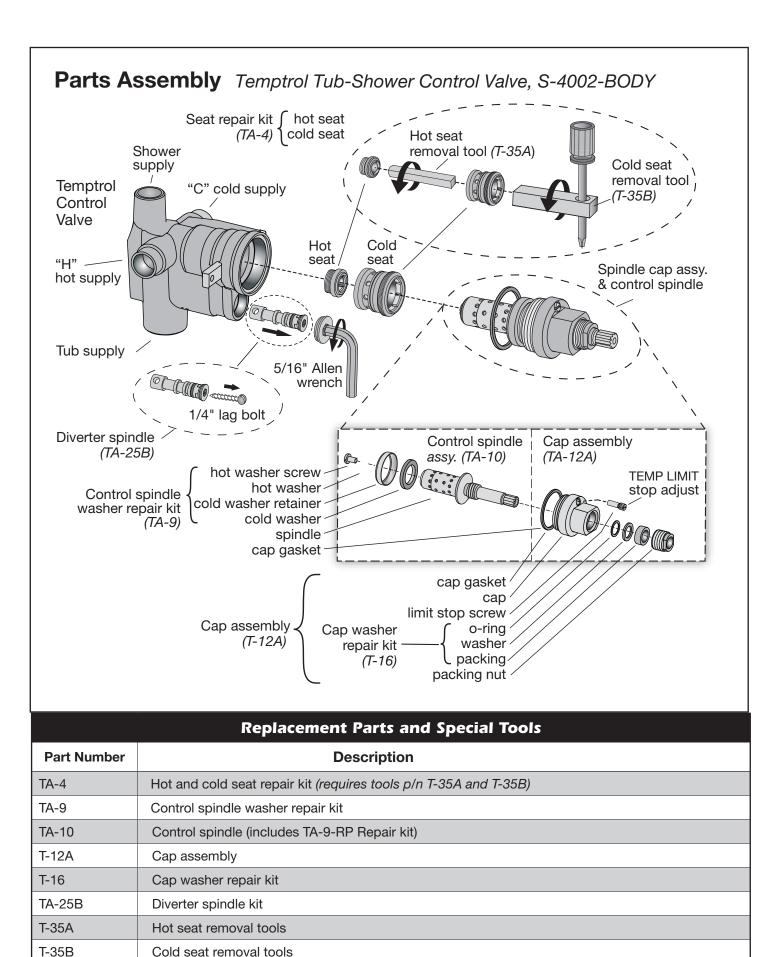
The limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.



- 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.





T-108

# **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.	<ol> <li>Replace washers using <i>control spindle washer</i> <i>repair kit</i>, p/n TA-9.</li> <li>Replace hot &amp; cold seats using <i>hot/cold seat repair</i> <i>kit</i>, p/n TA-4.</li> </ol>
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.	<ol> <li>Open valve halfway, remove handle and tap spindle with plastic hammer.</li> <li>Check <i>water pressure balancing piston</i> in <i>control</i> <i>spindle</i>. See service instructions.</li> <li>Replace <i>control spindle</i>, p/n TA-10.</li> </ol>
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.
When tub-shower valve's diverter handle is set in shower position a trickle of water runs from tub spout.	A trickle of water will flow from the tub spout to show water has been shut off by the main valve handle and not by diverter handle.	
Service Instructions		• If piston appears restricted then do the
<ul> <li>Removing control spindle assembly (Ref. parts assembly figure)</li> <li>Shut off water supply to valve and remove control valve handle and dome cover.</li> </ul>	<ul> <li>Replace both seats even if only appears worn.</li> <li>Install and tighten both seats to 15 mounds of torque.</li> </ul>	foot following: (1) Tap the handle or stem end of the spindle against a solid object to free the piston.
• Remove escutcheon plate by first removing escutcheon screws.	<b>Control spindle washer repair kit</b> 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.	<ul> <li>Remove <i>control spindle assembly</i>.</li> <li>Remove <i>cold washer</i> by holding spir using valve handle and unscrew <i>washer retainer</i> using channel 1</li> </ul>	cold
<b>Important:</b> Failure to do this can damage control spindle assembly.	<ul><li>Pliers.</li><li>Remove hot washer by removing washer screw.</li></ul>	removal of the piston.
• Unscrew both <i>spindle cap</i> and <i>control spindle assembly.</i>	Checking water pressure balancing piston The perforated end of the <i>control spin</i>	Valve re-assembly           Reassemble by reversing above <i>ndle</i>
<ul> <li>Hot/Cold seat repair kit</li> <li>Order p/n TA-4, T-35A and T-35B.</li> <li>Installation requires both hot &amp; cold removal tools, p/n T-35A &amp; T-35B.</li> <li>Remove control spindle assembly.</li> </ul>	<ul> <li>assembly houses the water pressubalancing piston which is the heart of valve.</li> <li>Remove control spindle assembly.</li> <li>Shake spindle assembly and listen</li> </ul>	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
<ul><li>Remove control spinate assembly.</li><li>Remove both seats with removal tools.</li></ul>	<ul> <li>Shake spindle asseniory and insten clicking noise. Piston should be free to s back and forth the full length of its trav</li> </ul>	slide position. Failure to do this will damage

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