## 111 SYMMONS<sup>®</sup> Carrington<sup>™</sup>

# Shower System S-4401 **Installation Brief**

#### **Model Number**

S-4401 Shower System

### **Decorative Finish Code**

append to part numbers if applicable -STN Satin Nickel

### **Rough-in Installation**

Installing control valve, piping & fittings Reference rough-in dimension illustration on page 2 as required.

#### 1) Determine wall thickness

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

#### 2) Attach mounting plate to valve Seat mounting plate against valve assembly as illustrated in figure 1.

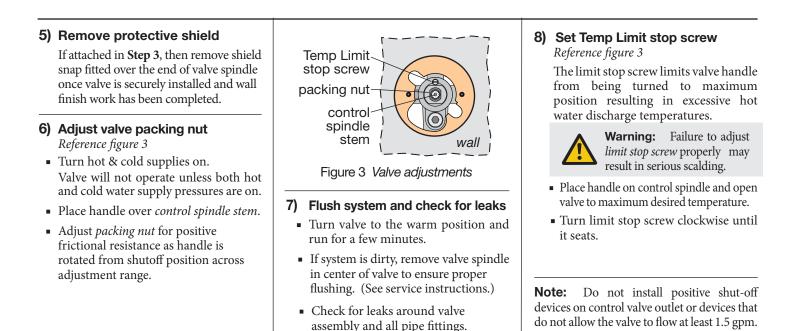
3-1/2" ( 95 mm) min 4" (101 mm) max

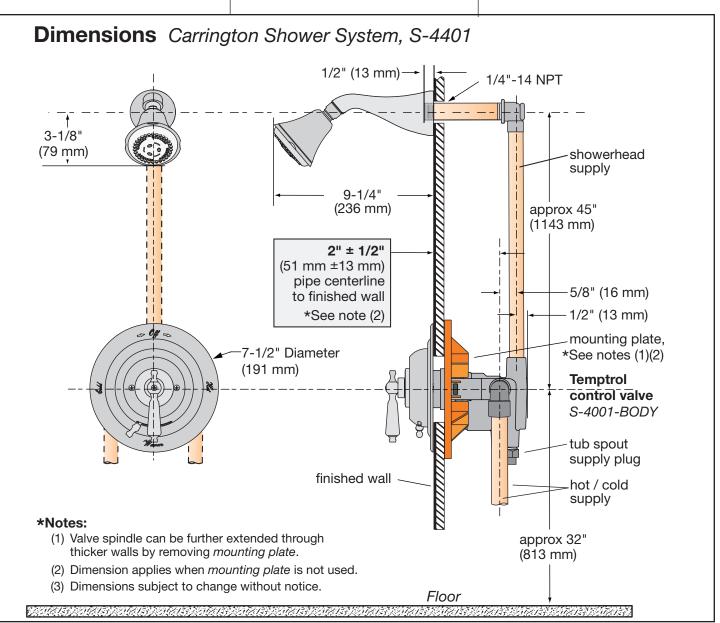


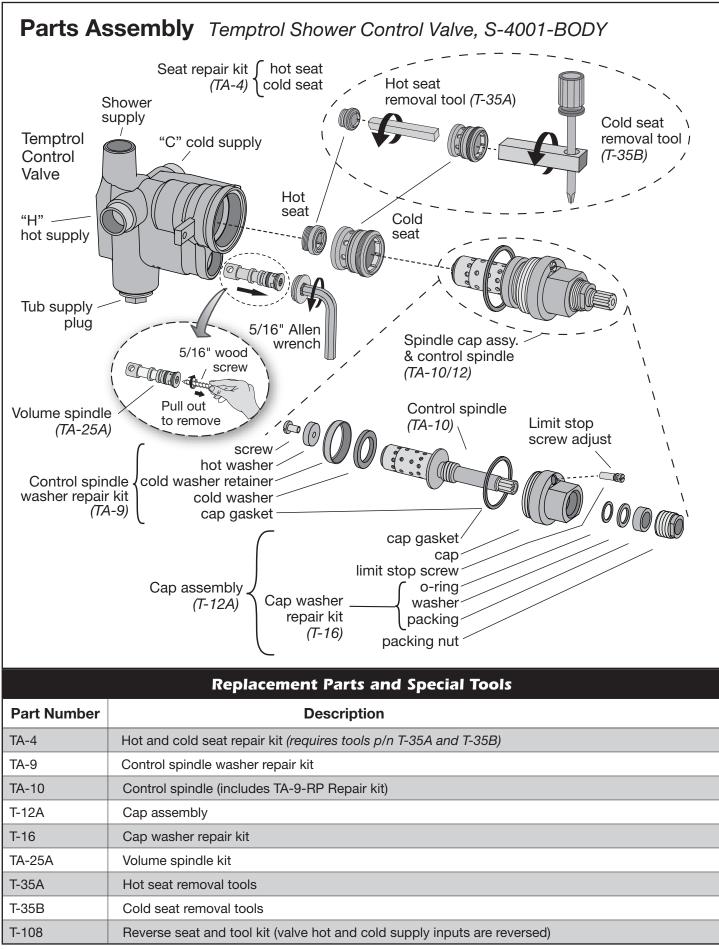
Number 401 Shower System	Tools & Materials	The contact Symmons customer service
ative Finish Code o part numbers if applicable TN Satin Nickel Chrome (standard)	Plumbers Putty 1 2 3 4	at (800) 796-6667, (781) 848-2250, customerservice@symmons.com Mon - Fri 7:30 am - 7:00 pm EST Please check Symmons website for technical help, the latest product information and warranty policy. www.symmons.com/service
h-in Installation g control valve, piping & fittings e rough-in dimension illustration 2 as required.		<ul> <li>4) Install piping, fittings and control valve Piping and fittings not supplied</li> <li>Control Valve Install valve through cutout hole in</li> </ul>
ermine wall thickness mine type of wall and wall ness where valve will be mounted. ider whether to use mounting plate riewing figure 2 below. ahead to <b>Step 3</b> if mounting	Figure 1 Mounting plate	<ul> <li>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> </ul>
will not be used. <b>ch mounting plate to valve</b> mounting plate against valve ably as illustrated in figure 1.	<ul> <li>3) Attach protective shield</li> <li>Reference figure 2 to determine whether shield is required.</li> <li>Attach plastic protective shield by snap fitting over end of valve spindle.</li> </ul>	
<ul> <li>Walls for using T-352 mountin</li> <li>Fiberglass or acrylic walls (require</li> <li>Plaster or other type walls (option 1/16" (2 mm) min • 1/2" (13 mm)</li> <li>Protective shield</li> <li>When mounting plate is used, then shield is optional for protecting end of valve during installation.</li> <li>"snap on-off"</li> </ul>	inished wall finished wall finished wall finished is flush against inner wall flush with back s protective shield snap on-off (required when mounting plate	shed wall 1/2" mm) erline d wall ust be side of d surface
p/n T-176 p/n T-352 <u>wall cutout hole size</u> 3-1/2" (95 mm) min 4" (101 mm) may	is not used)	) min 🛛 🚺 🚽

3-1/2" ( 89 mm) min 4" (101 mm) max

Figure 2 Mounting valve







## **Trouble Shooting Chart**

Cause	Solution
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.	<ol> <li>Replace washers using <i>control spindle washe</i> <i>repair kit</i>, p/n TA-9.</li> <li>Replace hot &amp; cold seats using <i>hot/cold seat</i> <i>repair kit</i>, p/n TA-4.</li> </ol>
Pressure-balancing piston housed in spindle assembly is restricted from free movement by foreign matter.	<ol> <li>Open valve halfway, remove handle and ta spindle with plastic hammer.</li> <li>Check <i>water pressure balancing piston</i> in <i>control spindle</i>. See service instructions.</li> <li>Replace <i>control spindle</i>, p/n TA-10.</li> </ol>
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.
<ul> <li>Replace both seats even if only appears worn.</li> </ul>	<ul> <li>If piston appears restricted then do t following:</li> <li>(1) Tap the handle or stem end of t</li> </ul>
<ul> <li>Install and tighten both seats to 15 f pounds of torque.</li> </ul>	spindle against a solid object to fr the piston.
<b>Control spindle washer repair kit</b> Order p/n TA-9.	(2) Try soaking in household vinega and repeat step (1).
<ul> <li>Remove <i>cold washer</i> by holding spin using valve handle and unscrew of</li> </ul>	cold
<ul><li>Remove hot washer by removing washer screw.</li></ul>	removal of the piston.
<b>Checking water pressure</b> <b>balancing piston</b> The perforated end of the <i>control spir</i>	Valve re-assembly           Reassemble by reversing above           ndle
<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 clicking noise. Piston should be free to sback and forth the full length of its trav</li> </ul>	Ire- 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 lideformaximum counter clockwise rotational position. Failure to do this will damage
	Both hot and cold water supplies are not turned on.         Hot and cold washers are worn or foreign matter (dirt, chips) is lodged 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 f pounds of torque.         Control spindle washer repair kit Order p/n TA-9.         • Remove cold washer by holding spir using valve handle and unscrew or washer retainer using channel 1 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         Phe sembly houses the water pressubalancing piston which is the heart of valve.         • Remove control spindle assembly.

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