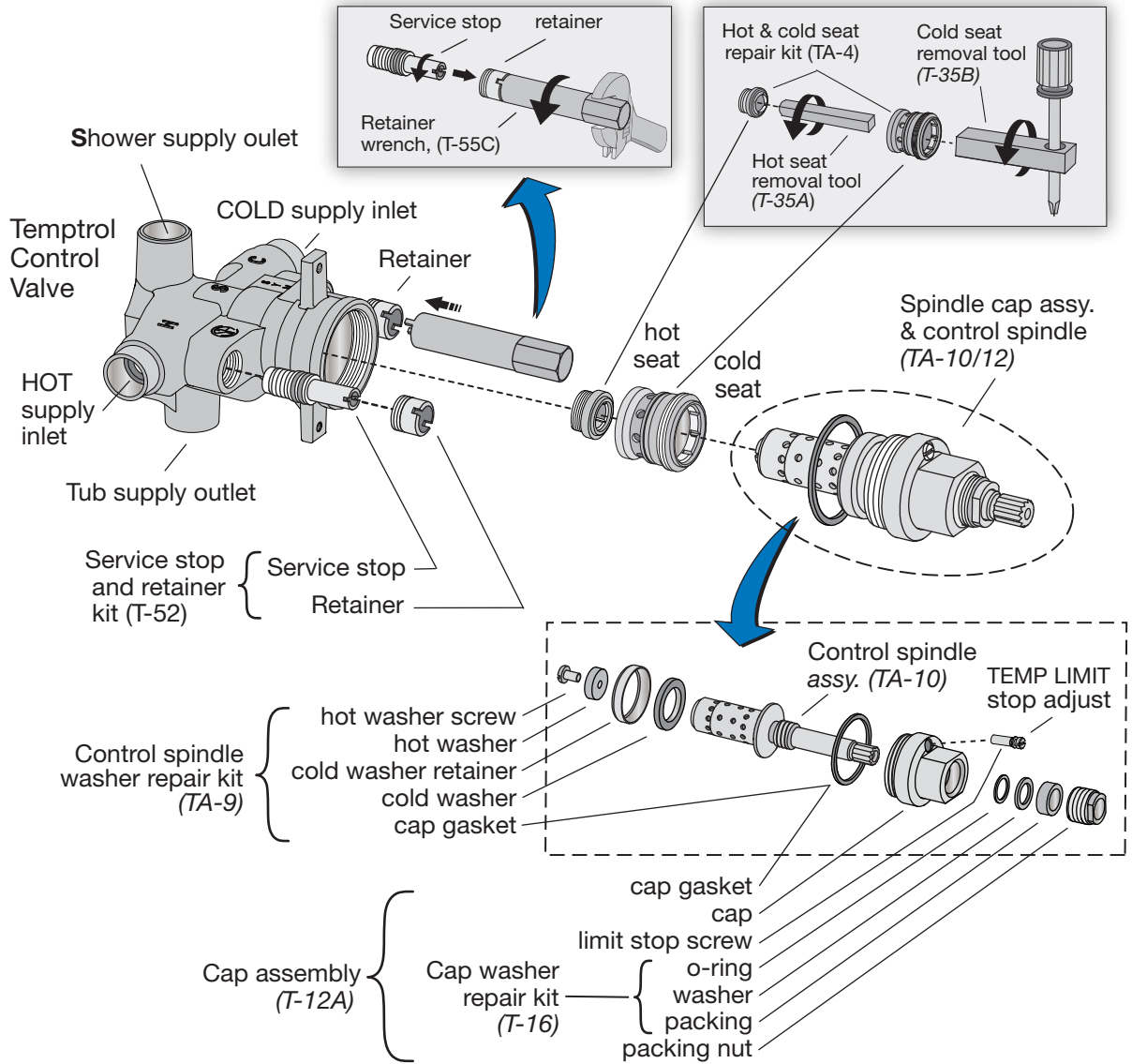


Parts Assembly Temptrol Shower & Tub/Shower Valve Body, 46-2-BODY, 46-2X-BODY



Temptrol Valve Replacement Parts and Optional Tools

Symmons Part Number	Valve Body Type		Description
	46-2-BODY	46-2X-BODY	
TA-4	√	√	HOT & COLD seat repair kit.....(<i>optional tool p/n T-35A/B</i>)
TA-9	√	√	Control spindle washer repair kit
TA-10	√	√	Control spindle.....(<i>includes p/n TA-9 & T-16 components</i>)
T-12A	√	√	Cap assembly
T-16	√	√	Cap washer repair kit
T-35A/B	√	√	HOT seat removal tool, T-35A & COLD seat removal tool, T-35B
T-52		√	Service stop spindle & retainer
T-55C		√	Service stop spindle, retainer & removal tool
T-108	√	√	Reverse seat & tool kit (<i>valve HOT & COLD supply inputs are reversed</i>)

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.	1) Replace washers using <i>control spindle washer repair kit</i> , p/n TA-9. 2) Replace hot & cold seats using <i>hot/cold seat 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.	1) Open valve halfway, remove handle and tap spindle with plastic hammer. 2) Check <i>water pressure balancing piston</i> in <i>control spindle</i> . See service instructions. 3) 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*)

- Shut off water supply to valve and remove control valve handle and dome cover.
- Remove escutcheon plate by first removing escutcheon screws.
- Turn valve's *control spindle* to half way position between minimum and maximum rotation.



Important: Failure to do this can damage *control spindle assembly*.

- Unscrew both *spindle cap* and *control spindle assembly*.

Hot/Cold seat repair kit

Order p/n TA-4, T-35A and T-35B.

Installation requires both hot & cold removal tools, p/n T-35A & T-35B.

- Remove *control spindle assembly*.
- Remove both seats with removal tools.

- Replace both seats even if only one appears worn.
- Install and tighten both seats to 15 foot pounds of torque.

Control spindle washer repair kit

Order p/n TA-9.

- Remove *control spindle assembly*.
- Remove *cold washer* by holding spindle using valve handle and unscrew *cold washer retainer* using channel lock pliers.
- Remove *hot washer* by removing *hot washer screw*.

Checking water pressure balancing piston

The perforated end of the *control spindle assembly* houses the water pressure-balancing piston which is the heart of the valve.

- Remove *control spindle assembly*.
- Shake spindle assembly and listen for clicking noise. Piston should be free to slide back and forth the full length of its travel.

- If piston appears restricted then do the following:
 - (1) Tap the handle or stem end of the spindle against a solid object to free the piston.
 - (2) Try soaking in household vinegar and repeat step (1).
- If unable to free piston, replace *control spindle*, p/n TA-10.



Important: Do not attempt removal of the piston.

Valve re-assembly

Reassemble by reversing above procedures.

After 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 assembly.