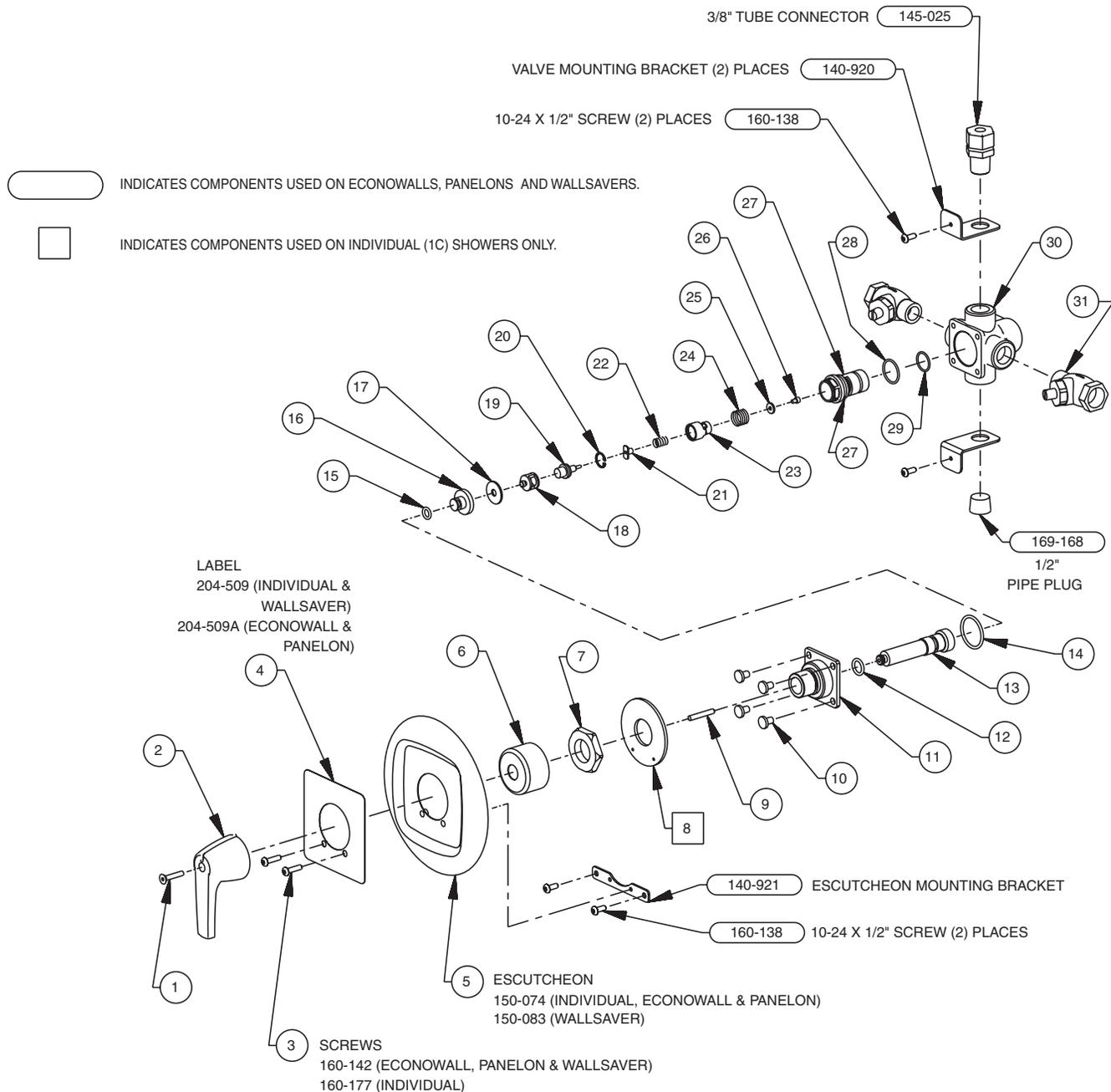


Thermostatic Mixing Valve — Model S59-2006 (2000 to April, 2003)

For Individual, Econo-Wall, Wall Saver and Panelon Showers



To adjust the valve's temperature to other than the factory preset, follow the procedures outlined below.

1. Turn on the water and let it run until 2.5 – 4 GPM is flowing through the valve.
2. Remove the shower valve handle and handle screw to expose the set screw inside the valve stem.
3. Using a 3/32" hex-head Allen key, turn the set screw counterclockwise to increase the temperature or clockwise to decrease the temperature.
4. When the adjustment is complete, replace the handle and turn off the water.

NOTE: The maximum temperature for this valve has been set to approximately 105° F with an incoming hot water temperature of 140° F. This maximum temperature may need to be adjusted based on the installation conditions or application.

Thermostatic Mixing Valve — Model S59-2006 (2000 to April, 2003)

For Individual, Econo-Wall, Wall Saver and Panelon Showers

Parts List

Item	Part No.	Description	Assembly S59-2006	Piston/Liner Kit S65-205	Cover Kit S65-206	Thermostat Kit S65-201	O-Ring/Seal Kit S65-202
			Qty				
1	160-225	Flat Screw 10-24 x 3/4	1	—	—	—	—
2	128-078	Handle	1	—	—	—	—
3	160-177	BTN Screw 10-24 x 1-1/8	2	—	—	—	—
4	204-509	Label	1	—	—	—	—
5	150-074	Escutcheon	1	—	—	—	—
6	107-279	Cover	1	—	—	—	—
7	110-228A	Nut	1	—	1	—	—
8	142-113	Mounting Plate	1	—	1	—	—
9	160-408	Set Screw 10-24 x 1-1/4	1	—	1	—	—
10	160-392	Screw 1/4-20 x 3/8	4	—	1	—	—
11	107-504	Cap	1	—	1	—	—
12	125-001CD	O-Ring	1	—	1	—	1
13	120-148A	Stem, Shower TMV	1	—	1	—	—
14	125-109	O-Ring	1	—	1	—	1
15	125-001CM	O-Ring	1	—	—	1	1
16	153-404	Holder - Shutoff Disk	1	—	—	—	—
17	142-112	Shutoff Disk	1	—	—	—	—
18	153-406	Retainer - Shutoff Disk	1	—	—	—	—
19	S39-413	Thermostat	1	—	—	1	—
20	132-044	Retaining Ring	1	1	—	—	—
21	153-405	Retaining - Overheat Spring	1	1	—	—	—
22	135-085	Spring	1	1	—	—	—
23	119-236	Piston	1	1	—	—	—
24	135-074	Spring	1	1	—	—	—
25	142-129	Seal Disc - HOT	1	1	—	—	1
26	160-407	Screw 6-32 x 3/16	1	1	—	—	—
27	144-059	Liner	1	1	—	—	—
28	125-001DA	O-Ring	1	1	—	—	1
29	125-150	O-Ring	1	1	—	—	1
30	118-287	Valve Body	1	—	—	—	—
31	S27-102	Stops (Optional)	2	—	—	—	—

Thermostatic Mixing Valve — Model S59-2006 (2000 to April, 2003)

For Individual, Econo-Wall, Wall Saver and Panelon Showers

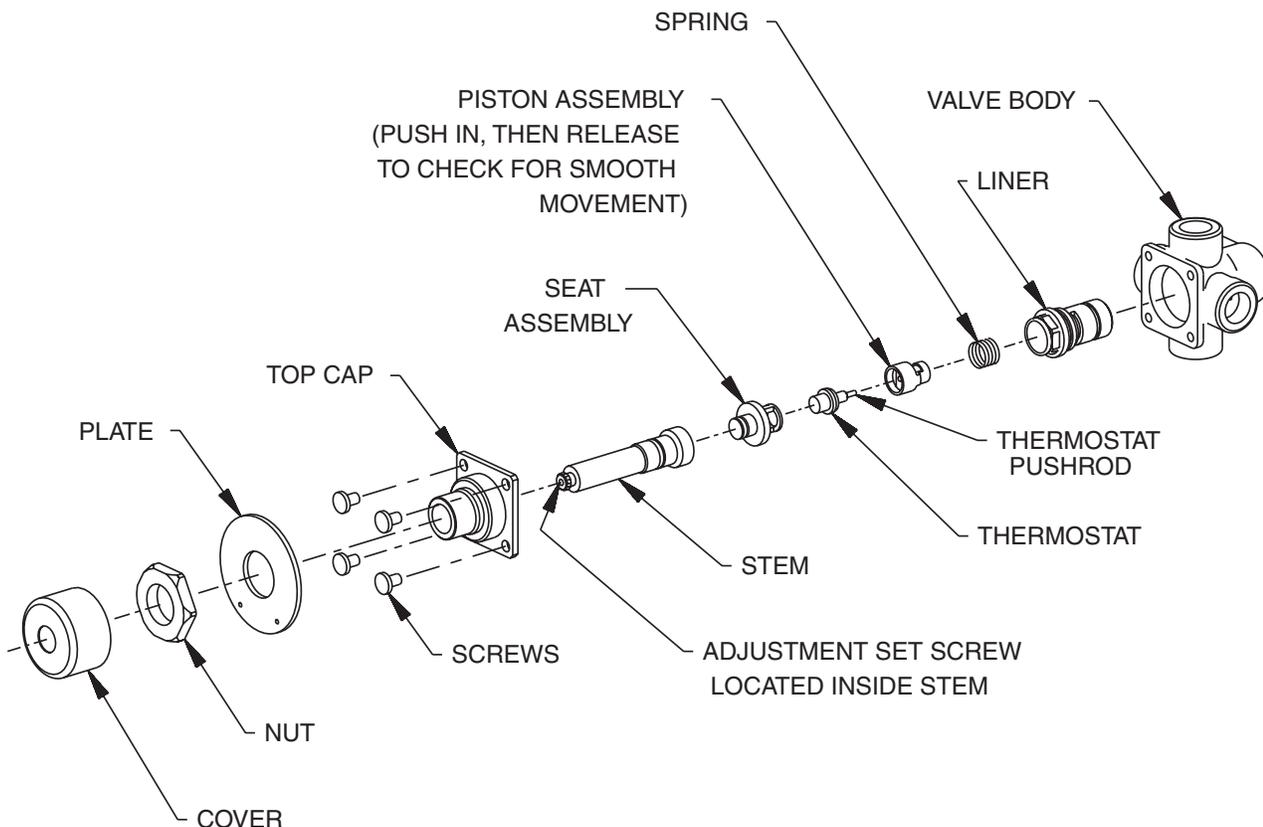
Thermostatic Mixing Valve Maintenance

For maximum efficiency, your thermostatic mixing valve requires a minimum amount of maintenance. Follow the procedures outlined below to achieve highest performance.

Check the piston for smooth movement

To check the valve's piston for free and smooth movement, follow the procedures outlined below:

1. Remove the valve's top cap and thermostat.
2. Push in on the piston with your finger (the piston should move freely). If the movement is not as it should be, the piston and liner assembly needs to be cleaned.
 - remove the cap and thermostat
 - using a 7/8" socket wrench, loosen the piston/liner assembly from the valve body and lift the assembly out with a needle-nose pliers.
 - disassemble the piston/liner assembly components as shown in the figure below.
 - any cleaner suitable for brass and stainless steel may be used (if cleaning with suitable cleaner is not sufficient to remove debris, a 400-grit sandpaper may be used to polish and hone the piston and liner).
 - reassemble the valve assembly in reverse manner and retest the piston.
3. If, after a thorough cleaning, the piston does not move freely, the piston/liner assembly must be replaced. Order a new Piston/Liner Assembly as specified in the parts list.



Thermostatic Mixing Valve — Model S59-2006 (2000 to April, 2003)**For Individual, Econo-Wall, Wall Saver and Panelon Showers****Thermostatic Mixing Valve Maintenance continued . . .*****Check the thermostat for proper operation***

To check the valve's thermostat for proper operation, follow the procedure outlined below.

1. At room temperature (80° F or less), remove the top cap and thermostat as outlined in the previous section detailing piston movement.
2. Place the thermostat into a small container filled with 115° water. The thermostat's pushrod should pop out of the thermostat approximately 1/10".
3. If the pushrod does not pop out, the thermostat must be replaced (it cannot be repaired). Order a new thermostat kit as specified in the parts list.

Thermostatic Mixing Valve Troubleshooting

NOTE: Before attempting to troubleshoot the valve or disassemble the components, check for the following conditions:

- *if optional stop/check valves are used, make sure all inlet and outlet shut-off valves are open (the slotted stem must extend out approximately 1/4" from the valve cap).*
- *make sure that the hot and cold inlet pipes are connected properly, and that there are no cross-connections or leaking stop valves.*
- *check the hot water heater output to make sure that it is at least 15° F above the set temperature.*

Be sure to close the appropriate shut-off valves prior to disassembly of the valve and reopen the valves after inspection and repair is complete.

Problem: Limited water flow

Cause: The optional stop/check sections of the valve do not move freely.

Solution: Dirt and debris have collected on the stop/check valve seat limiting the movement of the stop/checks. The stop/checks should be disassembled and cleaned. The components may be brushed with a small wire brush to remove debris. If the optional stop/check valves need to be replaced, contact your Bradley representative and ask for Stop/Check Valve (part number S27-102).

Problem: External leaks in the system

Cause: Either the NPT joints or O-rings have been damaged.

Solution: Replace the NPT joints and/or O-rings where necessary. For replacement of the O-rings, order the O-ring/Seat kit as specified in the included parts list.

Problem: Improper water temperature or temperature fluctuation

Cause: Thermostat is slowly failing or not working at all.

Solution: See "Check the thermostat for proper operation" and follow the step-by-step procedure on the previous page.

Cause: Valve temperature is not properly set.

Solution: See "Adjusting the temperature" found on 215-1369-28B (1 of 4) and follow the step-by-step procedure.

Cause: Inlet supply line to the mixing valve is being shared by other pieces of equipment that are used only periodically, such as laundry appliances or washdown stations. It may reduce the inlet pressure to the mixing valve to less than 3 PSI. The supply line size may not be large enough to supply both the valve and the other appliances.

Solution: Enlarge the supply line size, reconfigure the supply line or regulate the supply usa