



| ITEM # | PART # | DESCRIPTION |
|--------|----------|----------------------------|
| 1 | 99903124 | CHECK STOP REPAIR KIT |
| 2 | 99021358 | PRESSURE BALANCE CARTRIDGE |
| 3 | 99885094 | DIVERTER CARTRIDGE |

Service Instructions

Caution- Any repair or servicing of the Valve may effect the maximum outlet temperature setting of the Valve. After working on the Valve, make sure the maximum outlet temperature is set to the recommended setting of 110 °F.

Pressure Balance Cartridge Removal

- 1) Remove Trim from Valve. Close the Integral Stops of the Valve by turning the Stop Spindles clockwise.
- 2) With the Valve in the "OFF" position, remove the Bonnet by unthreading with a Slip Joint Wrench.
- 3) If necessary, remove the Cartridge from the Valve Body by pulling on the Valve spindle of the Cartridge. Verify that the Lower Cartridge Seal is in place within the Valve Cartridge, and not within the Valve Body.
- 4) Replace the Pressure Balance Cartridge if necessary. When replacing the Pressure Balance Cartridge, verify that the Lower Cartridge Seal is properly installed in the recess on the bottom of the Cartridge. This Lower Cartridge Seal is positioned over the HOT & COLD inlet waterways of the Valve Body.
- 5) Reassemble the Bonnet by threading it into the Valve Body with a Slip Joint Wrench. Final torque should be 88-106 in*lb. **Important-** Adjust the Valve's maximum outlet temperature to the recommended setting of 110 °F. See Temperature Limit Stop adjustment steps within this document.
- 6) Open the Integral Stops of the Valve by turning the Stop Spindles counter-clockwise. Check Valve for leaks.
- 7) Reassemble the Trim parts.

Spring Check Stop Parts Removal

- 1) Remove Trim from Valve. Shut off HOT and COLD water supply lines to the inlets of the Valve.
- 2) Unscrew the Stop's Retaining Nut using a Socket Wrench equipped with a 9/16" (14mm) Deep Well Socket. Carefully remove the Retaining Nut w/Spindle, Spring, and Poppet assembly. Clean and/or replace the necessary parts. Reassemble the parts, reversing the above procedure. Final torque should be 70-106 in*lb. Repeat procedure on the other Stop.
- 3) Turn on the HOT and COLD water supply lines. Check for leaks.
- 4) Reassemble the Trim Parts.

Divertor Cartridge Removal (if present)

- 1) Remove Trim from Valve. Close the Integral Stops of the Valve by turning the Stop Spindles clockwise.
- 2) Remove the Divertor Retaining Nut using an Adjustable Wrench.
- 3) Remove Divertor Cartridge from Valve Body. Verify that the Lower Cartridge Seal is in place within the Divertor Cartridge, and not within the Valve Body.
- 4) Replace the Divertor Cartridge if necessary. When replacing the Divertor Cartridge, make sure that the mounting posts are aligned and engaged to the corresponding holes of the Valve Body.
- 5) Reassemble the Divertor Retaining Nut using an Adjustable Wrench. Final torque should be 35-53 in*lb.
- 6) Open the Integral Stops of the Valve by turning the Stop Spindles counter-clockwise. Check for leaks.
- 7) Reassemble the Trim Parts.