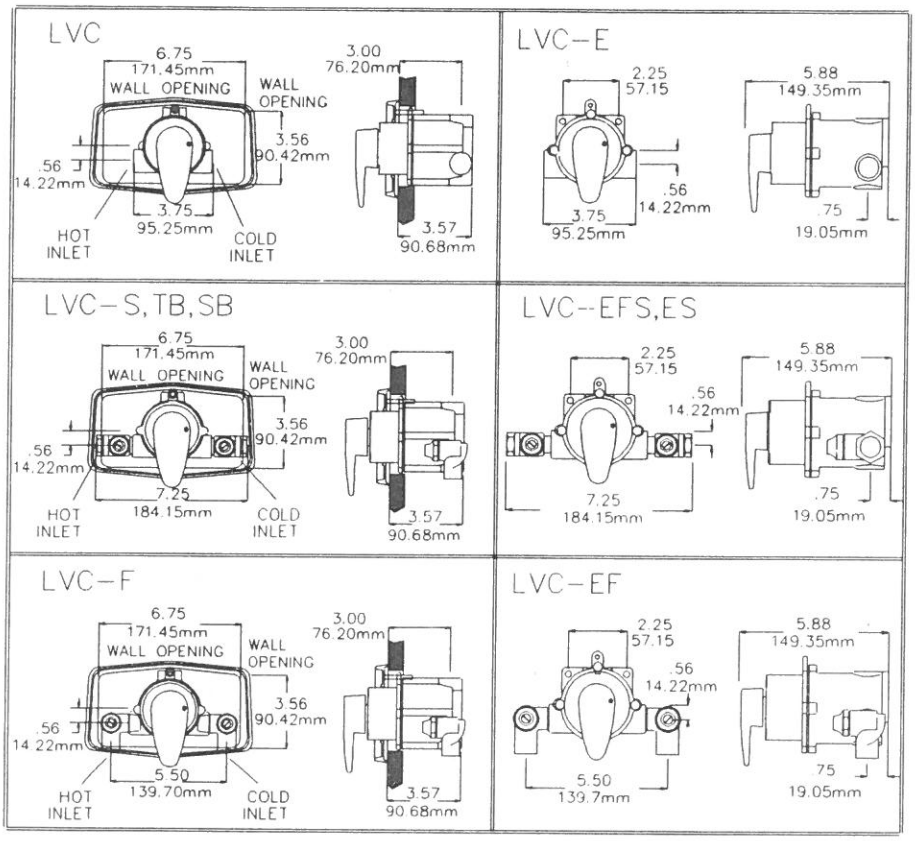
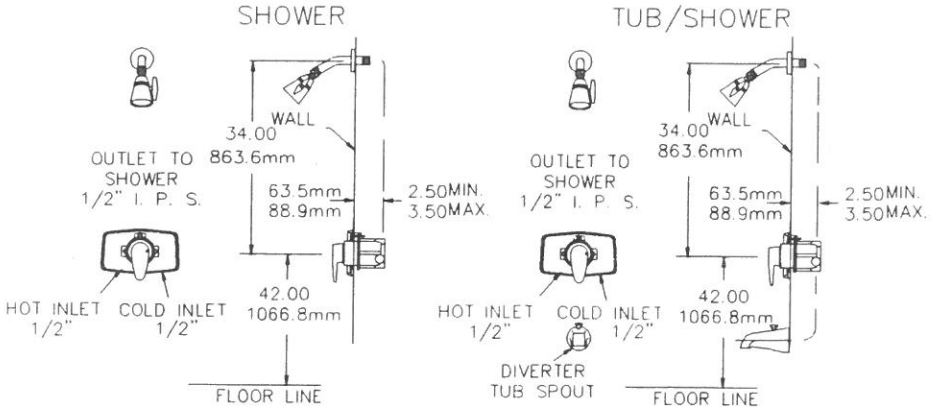
LEONARD®
WATER TEMPERATURE CONTROLS

LVC THERMOSTATIC Shower master®

INSTALLATION INSTRUCTIONS





WARNING

HOT WATER OVER 110°F (43°C) IS DANGEROUS AND MAY CAUSE SCALDING!!

WARNING!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS. (SEE MAINTENANCE GUIDE AND RECORD, MGR-1000).

1. Valve **MUST NOT** be sealed in wall with plaster or tile. Cover screws and inlet fittings must be accessible for servicing. **DO NOT** remove plaster mask attached to valve unless absolutely necessary; if removed, replace mask after making connections.
2. Solder, pipe cement, or solder flux must be used sparingly. **After connections are made to the valve, flush pipes thoroughly to remove dirt and excess materials which might become lodged on the working parts of the valve.**
3. **IMPORTANT!** LVC concealed valves are designed for top AND bottom outlet. * When used for showers, the top outlet only is used and the pipe plug is left in the bottom outlet. **

   When installed for use with shower **AND** tub:
   a. Remove the pipe plug from the bottom outlet.
   b. Pipe down from the bottom outlet to a diverter tub spout. No special elbow is required.

* Valves beginning with Serial No. LV-35359

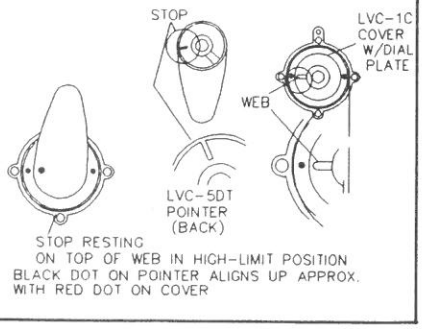
** Note: Exposed models (LVC-E) are designed for top outlet only

WARNING

WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F(43°C). WITH AN INCOMING HOT WATER SUPPLY TEMPERATURE OF 110°F(43°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 110°F, THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER. (SEE BELOW).

TO RESET HIGH TEMPERATURE LIMIT STOP

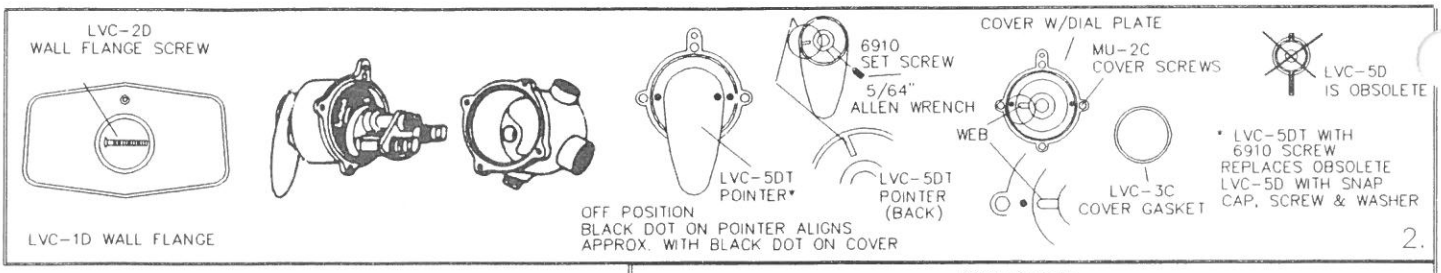
1. Turn pointer to the left or right until valve is delivering the highest desired temperature of 110°F or lower.
2. Remove pointer from spline
3. Replace pointer on the spline with the STOP, which is cast on the underside of the pointer, resting against the TOP side of the WEB which is cast on the cover.
4. If properly adjusted, the pointer should now move fully from the HOT position, where the BLACK dot on the pointer lines up with the RED dot on the cover, clockwise to the OFF position, where the BLACK dot on the pointer lines up with the BLACK dot on the cover.



LIMITED WARRANTY

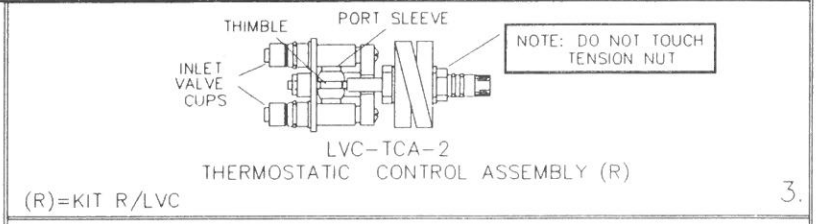
Leonard Valve Company warrants the original purchaser that products manufactured by them (not by others) will be free from defects in materials and workmanship under normal conditions of use, when properly installed and maintained in accordance with Leonard Valve Company's instructions, for a period of one year from date of shipment. During this period the Leonard Valve Company will at its option repair or replace any product, or part thereof, which shall be returned, freight prepaid, to the Leonard factory and determined by Leonard to be defective in materials or workmanship. There are no warranties, express or implied, which extend beyond the description contained herein. There are no implied warranties of merchantability or of fitness for a particular purpose. In no event will Leonard be liable for labor or incidental or consequential damages. Any alteration or improperinstallation or use of the product will void this limited warranty.

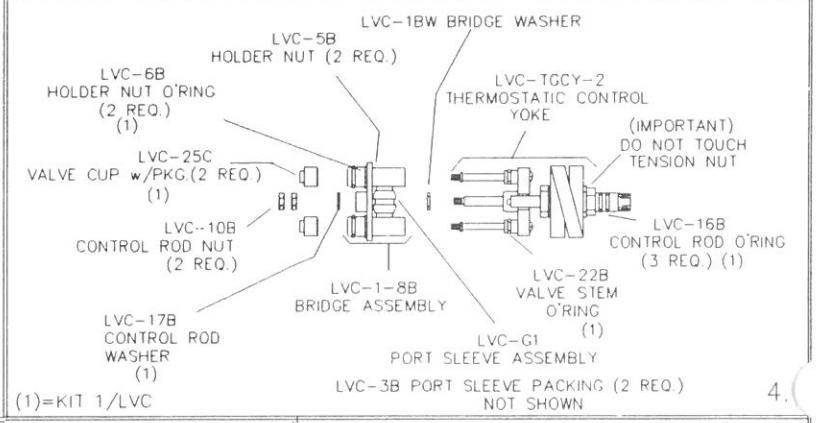
INSTRUCTIONS FOR CLEANING AND SERVICING

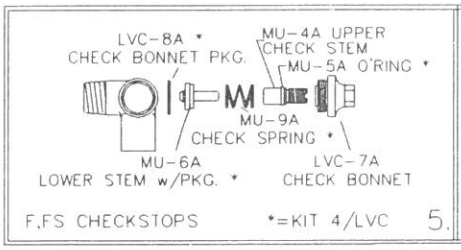


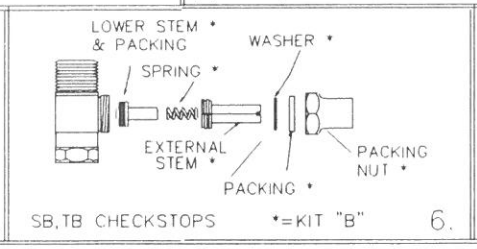
TO CLEAN LVC AFTER OPERATION

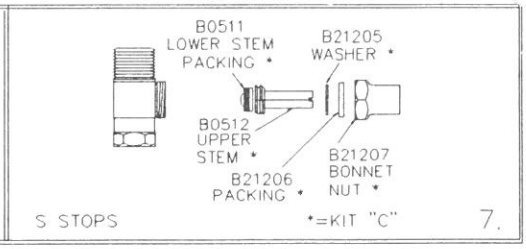
1. Turn off hot and cold supplies (using the inlet stops or checkstops, if furnished).
2. Remove wall flange screw, wall flange, cover screws (parts MU-2C) and release entire thermostatic control assembly (see DWG.2). Unless it is desired to completely disassemble the valve, do NOT remove pointer.
3. To clean, submerge in clear warm water, use fine steel wool if necessary to remove deposit or stain. A mild solution of household ammonia or non-corrosive cleaning solution is helpful in removing stubborn deposits. Rinse, move pointer on front of valve to see that inlet valve cups open and close vertically (DWG.3) LVC-25C (DWG.4) and thimble moves freely on port sleeve (DWG.3) LVC-G1 (DWG.4). Place cover gasket in recess provided return assembly to valve base and tighten cover screws.
4. To order entire thermostatic control assembly (less pointer and cover) specify LVC-TCA-2. The factory tested unit consists of all working parts and when installed will provide all new internal parts.











After installation, adjustment, cleaning, always check the temperature of the valve when turned to full **HOT** per the warning on the front page, using a thermometer. Also check and if necessary adjust the temperature of the hot water source. **EXCESSIVELY HOT WATER (OVER 110°F, 43°C) IS DANGEROUS AND MAY CAUSE SCALDING!!**

THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS. (SEE MAINTENANCE GUIDE AND RECORD, MGR-1000).

NOTE: WHEN ORDERING ANY PARTS PROVIDE SERIAL NUMBER STAMPED ON DIAL PLATE

SERVICING INSTRUCTIONS			
		KIT REQUIRED	PARTS INCLUDED:
PACKINGS & GASKETS	1. Leak at handle 2. Valve will not shut off completely. 3. Valve is difficult to take apart.	KIT 1/LVC (see DWGS 2 & 4)	LVC-3C, 2each: LVC-6B,22B,27B,25C*,LVC-16B *Replaces LVC-23B,24B,25B,28B, & 29B
PORT SLEEVE ASSEMBLY	4. Valve delivers either all hot or all cold water, or will not mix consistently. 5. After packings and gaskets have been replaced, valve will not shut off completely.	(see DWG. 4)	LVC-G1,LVC-3B (2 Req) or LVC-1-8B, plus packings noted.
THERMOSTAT GROUP	6. After replacing port sleeve assembly, valve will not hold temperature. 7. Valve does not respond when handle is turned (tension nut has been tampered with).	KIT R/LVC (see DWG. 3)	LVC-TGCY-2 or LVC-TCA-2 NOTE: DO NOT TOUCH TENSION NUT LOCATED BELOW LVC-16B O'RINGS
CHECKSTOPS, STOPS	8. Supplies cannot be shut off completely. 9. Leak at bonnet or stem.	KIT 4/LVC KIT "B" KIT "C"	SEE DWGS 5,6,7 ABOVE

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