

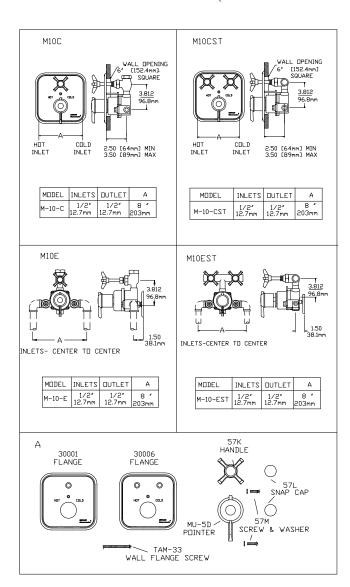


M-10-C, M-10-E, M-10-CST, M-10-EST

(TM-504, TM-356, TM-203, TM-140, TM-177A, PHOTOPROCESSING: TM-456, MARK I)

THERMOSTATIC SHOWERMASTER INSTALLATION INSTRUCTIONS

(NEW STYLE Serial No. MU_____)



- Valve must NOT be sealed in wall with plaster or tile. Cover screws and inlet fittings MUST be accessible for servicing.
- 2. This valve is furnished with integral checkstops on each supply.
- Install hot to left inlet and cold to right inlet (see H and C marks on valve body)
- 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 may become lodged on the working parts of the valve.
- Attach protective cover, which serves as a guide for finish wall line after piping connections have been made.
- 6. IMPORTANT: This M10C valve is designed for top outlet only when used for showers, when used for showers AND tub, pipe down to a special twin elbow and diverter tub spout or use an M10CST, (see installation drawings, page 4).
- After the valve is installed as noted above, recheck and reset the adjustable high temperature limit stop (see instructions, page 2)

WARNING

WARNING: THIS MIXING VALVE IS EQUIPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F (43°C) WITH AN INCOMING HOT WATER TEMPERATURE OF 135°F (57°C). IF INCOMING HOT WATER IS HIGHER THAN 135°F (57°C), THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F (43°C), AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER, (SEE REVERSE).

- Mount the wall flange to the valve body, using the TAM-33 wall flange screw.
- We recommend to seal the flange to the wall with silicone to prevent water from penetrating the wall.
- Attach the pointer to the valve stem and the 10-57K 4 arm handle to the on/off volume control stem (using the pointer screw and washer), and insert snap cap.

WARNING! HOT WATER IN EXCESS OF 110°F (43°C) IS DANGEROUS AND MAY CAUSE SCALDING.

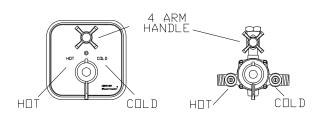
REMEMBER!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS, (SEE MAINTENANCE GUIDE AND RECORD MGR 1000).

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SERVICING INSTRUCTIONS

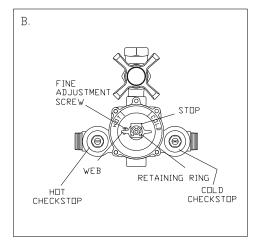
The M10 is a thermostatic water mixing valve which will compensate for changes in temperature or pressure of hot and cold supplies and maintain bathing temperatures. The easy to read dial or HOT and COLD indicators on the flange or cover help to eliminate confusion as to where the handle should be located for a particular temperature. Turn the 4 arm handle clockwise to begin the flow of water, when the pointer indicates COLD (or BLUE) on the dial plate, the temperature is cold. As the handle enters the HOT (or RED) area, shower temperature becomes progressively WARMER until the high temperature limit is reached in the full "HOT" position. To turn OFF move 4 arm handle back in a counter-clockwise direction to the "OFF" position.



- 1 Remove pointer (MU-5D) 4 arm handle (57K) and wall flange (3001)(see DWG A).
- 2 Turn off hot and cold supplies with a screwdriver at the integral checkstops (DWG B).
- 3 Remove the four cover screws (MU-2C) to release the cover and thermostatic control assembly (MU-1-12B) (DWGS C & D).
- 4 **To Remove Bridge Assembly** (MU-1-8B) (DWG E), remove pointer rod nut (MU-10B) and release bridge assembly from the stem.
- 5 To Disassemble Bridge Assembly (DWG. F), remove pointer rod nuts (MU-5B) with screwdriver in slots provided. Clean port sleeve assembly as noted below.
- 6 To Clean Port Sleeve Assembly (MU-G1) (DWG. F) submerge in clean water or any non-corrosive cleaning solution. DO NOT USE abrasives. Use a soft cloth to remove deposits or stains on the port sleeve assembly (MU-G1). Be certain the thimble moves freely on the port sleeve assembly and reassemble bridge assembly. NOTE! When reattaching bridge assembly, driving ball must engage slot in thimble and the coil bracket (DWG. E).
- 7 To Remove Thermostat Group (MU-G2) (DWG. G) Remove stop retaining ring, stop and gland nut. Push rod through center. Be careful NOT to pull coils out of shape! To clean (if a deposit has collected on the thermostat coil), brush in a non-corrosive cleaning solution and replace in cover with parts shown.
- 8 NOTE! FOR COMPLETE REBUILDING KIT ORDER KIT R/M10 (INCLUDES MU-1-12B, MU-3C,57H).

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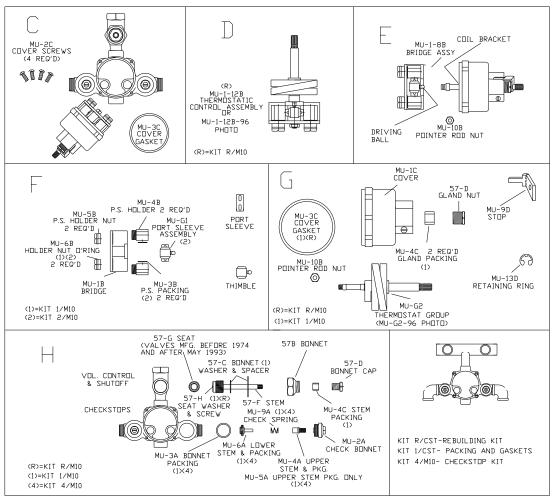


TO RESET HIGH TEMPERATURE LIMIT STOP (DWG 2.):

- 1. While valve is running, turn pointer (MU-5D) to maximum "H" (HOT) position.
- 2. Remove pointer, stop retaining ring and stop.
- Replace pointer and turn stem to the left or right until the valve is delivering the highest temperature of 110°F (43°C) or lower and remove pointer.
- 4. Push stop on stem so that its LEFT edge is resting on the fine adjustment screw* on the cover. Turn fine adjusting screw, if necessary, (clockwise for slightly HIGHER temperature counterclockwise for slightly lower temperature). *furnished on valves manufactured after February, 1987
- 5. Replace pointer so its small end is pointing to the extreme "H" (HOT) position.

IMPORTANT! TEST THE NEW HIGH TEMPERATURE SETTING BY HOLDING A THERMOMETER UNDER THE FLOW OF WATER TO BE CERTAIN IT IS AS DESIRED. HOT WATER INEXCESS OF 110°F (43°C) IS DANGEROUS AND MAY CAUSE SCALDING!!

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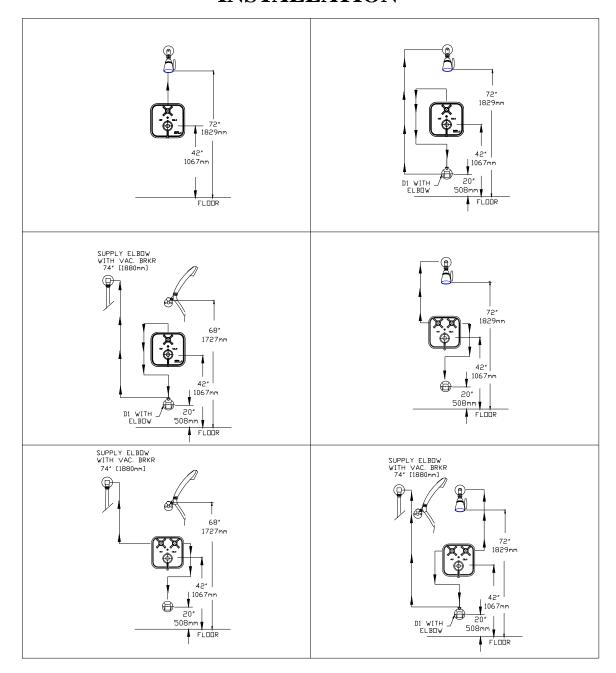


TROUBLESHOOTING INSTRUCTIONS

	SYMPTOM:	
PACKINGS & GASKETS	Leak at handle. Leaks between valve cover and base. Volume control will not shut off completely.	Kit 1/M10 INLUDES: 1 MU-3C
PORT SLEEVE ASSEMBLY	Valve delivers either all hot or all cold water, or will not mix consistently. Clean or replace port sleeve assembly.	Kit 2/M10 INLUDES: 2 MU-3B, MU-6B, 1 MU-G1 ALTERNATE: ORDER 1 MU-1-8B Or KIT R/M10 (SEE DWG. E)
THERMOSTAT GROUP	After replacing port sleeve assembly, valve will not hold temperature. Clean or replace thermostat group.	Kit R/M10 or MU-G2 INCLUDED
CHECKSTOPS	Hot water by-passes into cold line (or cold into hot). Supplies cannot be shut off completely.	Kit 4/M10 INCLUDES: 2 MU-3A, 2 MU-5A, 2 MU-6A, 2 MU-9A

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INSTALLATION



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 improper installation or use of the product will void this limited warranty.