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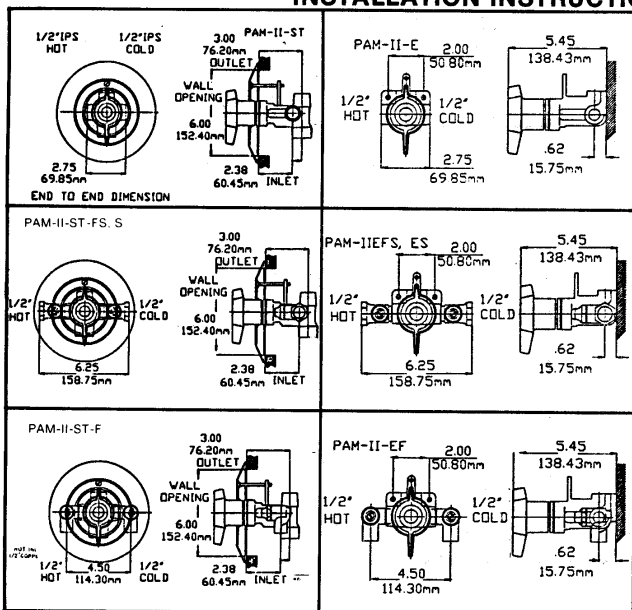


# PAM® II-ST, PAM® II-E

PRESSURE ACTUATED MIXER  
1/2" inlets, 1/2" top outlet (1/2" bottom outlet)

Serial No. PAST 20390 and higher

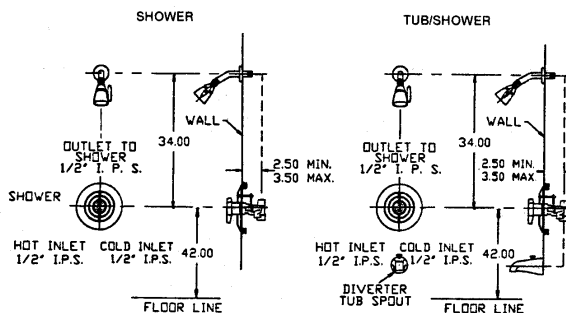
## INSTALLATION INSTRUCTIONS



1. Valve must NOT be sealed in wall with plaster or tile. Cover screws and inlet fittings must be accessible for servicing.
2. It is recommended that the valve be furnished with inlet stops or checkstops on each supply.
3. White lead, 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.
4. Attach protective cover which serves as a guide for finish wall line after piping connections have been made.
5. IMPORTANT! This valve is 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 used for shower AND tub, remove the pipe plug from the bottom outlet and pipe down to a diverter tub spout. No special elbow is required.

### OPERATION

The PAM-II-ST is a pressure-actuated water mixing valve which will compensate for changes in the pressure of hot and cold supplies. The easy-to-read dial with directional indicators helps to eliminate confusion as to where the handle should be located for a particular temperature. Turn the handle counter-clockwise from the "OFF" position through the BLUE (or COLD) area on the dial plate; the shower is on and temperature is cold. As the shower enters the RED (or HOT) area, shower temperature becomes progressively WARMER until the high temperature is reached in the full "HOT" position. To turn OFF, move handle back in clockwise direction to the "OFF" position.



**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 135°F (57°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER (OR LOWER) THAN 135°F, THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF (OR LOWER THAN) 110°F, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER. (SEE BELOW) (SEE REVERSE)

HOT WATER IN EXCESS OF 110°F IS DANGEROUS!!!

REMEMBER! This is a control device which must be cleaned and maintained on a regular basis, depending upon water conditions and usage.

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## HANDBOOK TECH SHEET

### INSTRUCTIONS FOR DISMANTLING VALVE

1. Shut off hot and cold supplies to valve (and remove flange on concealed type valves.)
2. Remove Pointer Rod CAP, SCREW and WASHER, FRICTION SPRING, and POINTER.
3. Remove the 6 COVER SCREWS, then take off cover to which the Thermostat and Gears are attached.

**WHEN RE-ASSEMBLING VALVE,** insert new Flange Packing in base; replace COVER, tightening COVER SCREWS in rotation; put FRICTION SPRING in place; then replace POINTER and Pointer Rod SCREW, WASHER and CAP.

After installing new parts, it will probably be necessary to reset Pointer to obtain correct temperature range from Cold to Hot. See page 2, instructions "TO RESET ADJUSTABLE TEMPERATURE LIMIT STOP."

### TO CLEAN PORT SLEEVE ASSEMBLY

Failure to properly blend the water may be caused by a sticking condition in the PORT SLEEVE ASSEMBLY. The THIMBLE should slide freely on the PORT SLEEVE.

1. If a deposit of lime or sediment prevents free movement, use a nail set or other tapered tool to unscrew the CHECK NUT as far as it will go, then screw the PORT SLEEVE NUT into the base. This will release the PORT SLEEVE and THIMBLE so they can be lifted out.
2. Clean with A NON-CORROSIVE CLEANING AGENT AND SOFT CLOTH - DO NOT USE ABRASIVES - then wash parts thoroughly, wipe with a dry cloth and re-assemble. The PORT SLEEVE should be assembled with the shoulder to the left. Tighten PORT SLEEVE NUT against end of PORT SLEEVE but be careful not to cramp sleeve in place. Tighten CHECK NUT.
3. When replacing front be sure DRIVING BALL is inserted in Ball Socket as shown in Photo #1.



### TO REPLACE POINTER ROD WITH GEAR

1. Remove COVER with parts attached from the front of valve.
2. Remove POINTER ROD SNAP CAP, SCREW, WASHER, POINTER, and FRICTION SPRING.
3. Remove COIL SLEEVE STUD and take off THERMOSTAT GROUP.
4. Replace POINTER ROD with GEAR and re-assemble.

### TO REPLACE (OR CLEAN) THERMOSTAT GROUP

Follow instruction for replacing POINTER ROD with GEAR above. If a deposit has collected on the Thermostatic Coil, clean it off with a brush in a non-corrosive grit-free cleaning solution.

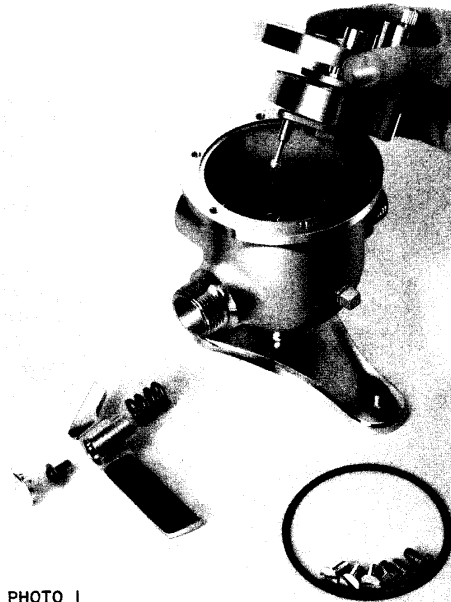


PHOTO 1

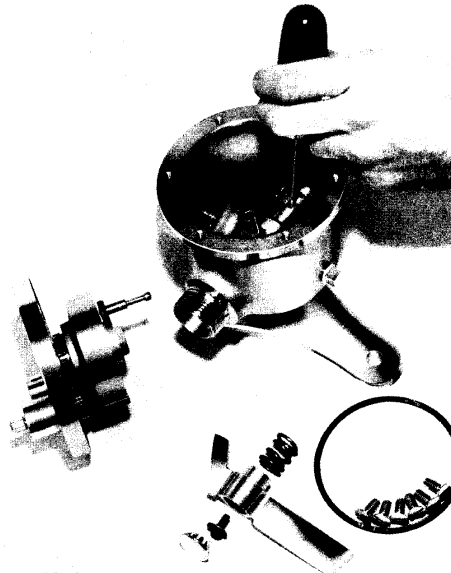


PHOTO 2