

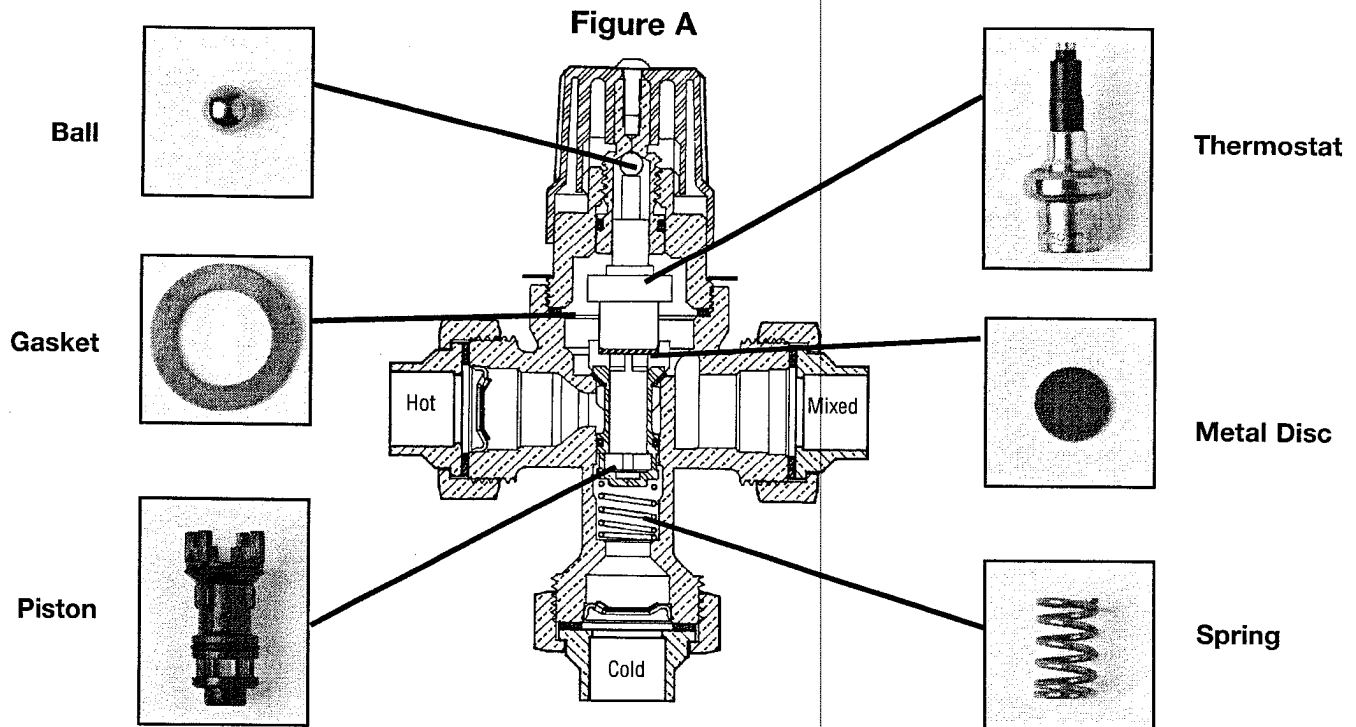
Watts Model 1/2" MMV Repair Kit Instructions

Installation Instructions for Repair Kit.

1. Close the hot water, cold water and mixed water supply valves.
2. Remove bonnet assembly slowly from valve body to release any pressure.
3. Remove thermostat, piston assembly and spring.
4. Replace parts shown in Figure A.
5. Replace bonnet assembly.
6. Open the cold water supply valve slowly to the valve. **NOTE:** Always turn on cold water supply first to prevent possible damage to the thermostat and to properly pressurize system.
7. Open the hot water supply valve.
8. Open the mixed water supply valve.
9. Inspect for leaks.
10. Adjust temperature as noted below:

Temperature Adjustment

With the fixture in the full open position, calibrate the mixed water outlet temperature by placing a thermometer in the mixed water stream. (**Note:** Loosen locking cap screw and partially lift cap to adjust temperature.) Adjust the setting of the MMV valve to obtain the desired temperature (counterclockwise, to increase temperature — clockwise to decrease temperature).



WARNING!

Water Temperatures in Excess of 110°F (43°C) Are Dangerous and May Cause Scalding, Severe Injury or Death!

This valve is not factory preset. To deliver the desired mixed water temperature at the outlet the installer must adjust and verify the temperature at the outlet.

Important!

This valve can be adjusted to deliver water at temperatures exceeding 110°F (43°C). Consequently, after installing the Watts MMV Thermostatic Mixing Valve, you should always check the outlet water temperature and adjust the valve to ensure delivery of water at a safe temperature not exceeding 110°F (43°C). Strainers must be installed in the hot and cold water supply lines to this valve. Mechanical valves are not fail-safe. Due to the effects of various water conditions, periodic verification of water temperature is required.

Watts Model	Repair Kit No.	Ordering Code No.	Includes
1/2" MMV	1/2" MMV RK	0861000	Figure A

Series 1/2" MMV Troubleshooting Guide

Problem	Cause	Solution
Unable to reach required set point	Water temperature too low	Check differential temperature between hot and cold supply (15°F Minimum).
Unable to achieve required flow	Too much pressure drop at fixture	Measure supply pressure and check against literature flow chart. Look for restrictions in MMV or at fixtures.
Valve does not maintain required temperature tolerance	Too much temperature variation	Disassemble and install MMV Repair Kit 1/2" MMV-RK (Ordering code # 0861000).
Humming or noise from valve.	Misapplication	If this is radiant heat use model 1170 or L1170. If this application is at the water heating source use model 1170 only.
Discharge temperature too hot	Valve not calibrated	Adjust and recalibrate per installation instructions and permanently set and lock the mixture position.
Hot water from cold water tap	Check valve failed	Disassemble and inspect check valves.



CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer.)

For more information: www.wattsind.com/prop65

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Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscca.com

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