

POWERS

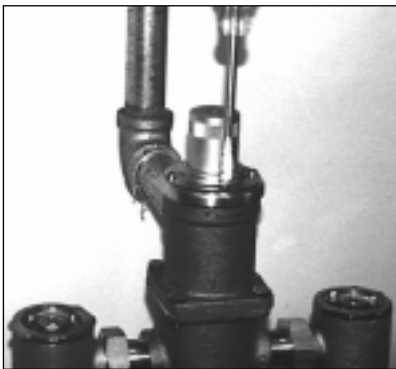
A WATTS INDUSTRIES CO.

INSTALLATION INSTRUCTIONS

HYDROGUARD SERIES e430
Retrofit

430 RETROFIT INSTRUCTIONS

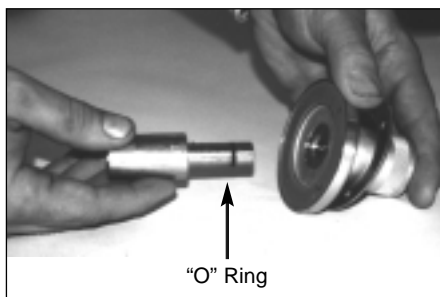
1. Turn off recirculation pump if used. Close both checkstops by rotating stems counter-clockwise with an allen wrench. Open a faucet on the tempered water line, and ensure water is completely off. If water continues to flow through the valve, checkstops may be damaged. In that case, locate another shutoff valve, and turn water off to the valve.
2. Remove the four (4) screws on the motor housing cap, and lift the motor housing/cap adjustment knob assembly from the valve. **Note: Depending on your system, a considerable amount of water may drain back from your pipes when you remove the cap.**



3. Remove the motor from the adjustment knob, and discard.



4. Place the "O" ring on the stem of the new overload assembly. Grease the stem of the overload assembly, and insert it into the adjustment knob.



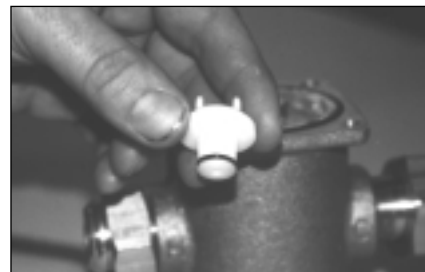
5. Loosen the union nuts between the checkstops and the valve body. Remove the four (4) bolts that hold the motor housing to the valve body. Carefully remove the valve body. Remove and discard the old overload assembly.

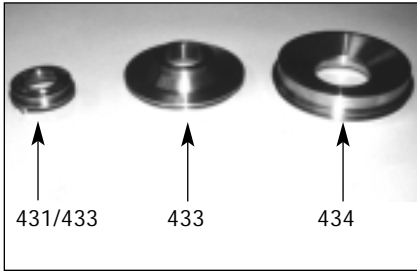


6. Inspect the valve assembly. Insure the components are in good shape, clean, and free of debris. Replace poppet assemblies if necessary (available separately).
7. Install the "O" ring onto the motor adapter and assemble it to the hot water poppet.
8. Install the "O" ring onto the funnel.

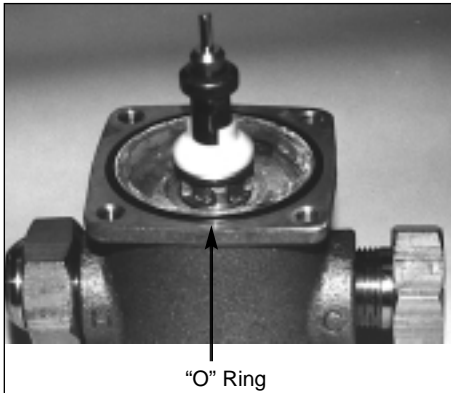
431/432 - Grease the "O" ring, and insert the funnel into the motor housing. Two legs should be in diagonal position.

433/434 - Grease the "O" ring, and insert the funnel into the lower housing.

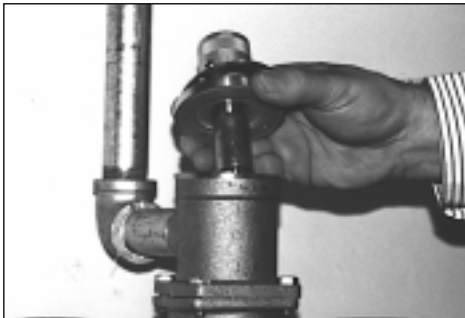




9. Set the thermal actuator on the motor adapter, and carefully assemble the valve back to the motor housing using the new "O" ring supplied. Tighten the union nuts hand tight, and reinstall the four (4) bolts between the valve assembly and motor housing.



10. Reassemble the motor housing cap/adjustment knob assembly to the motor housing using the new gasket and four (4) screws. Insure the overload assembly is inserted straight in the motor housing and engages the stem of the thermal actuator.



11. Tighten the four (4) screws on the motor housing cap, the four (4) bolts, and the union nuts.
12. Open the checkstops and turn the water on if it was turned off. Check for leaks.

Restart circulation pump and adjust valve for desired outlet temperature.

ADJUSTMENTS

Maximum Temperature Setting



To lower maximum temperature setting, turn adjustment knob to full hot position (counterclockwise). Insert hex key in adjusting screw as shown. Hold adjustment knob and turn adjusting screw until desired maximum temperature is obtained.

Temperature Adjustment and Lock



To vary discharge temperature, turn temperature adjustment knob. This knob may be locked in place by inserting a hex key inside opening and turning lock screw clockwise until tight.

NOTE: AFTER COMPLETING REPAIRS, CHECK MAXIMUM DISCHARGE TEMPERATURE (115°F [46°C]). RESET IF NECESSARY.

WARNING: FAILURE TO PERFORM THIS OPERATION COULD RESULT IN UNSAFE DISCHARGE TEMPERATURE, WHICH MAY CAUSE INJURY OR DEATH.

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

POWERS
A WATTS INDUSTRIES CO.

USA office: Phone: 800.669.5430 • Fax: 847.824.0627
www.powerscontrols.com
Canadian office: Phone: 888.208.8927 • Fax: 888.882.1979
© 2002 Powers, a Watts Industries Co.