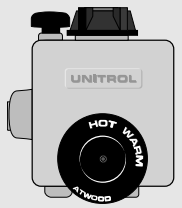
Atwood®
Atwood Mobile Products LLC
1120 North Main Street • Elkhart, IN 46514
PHONE: 574•264•2131 **FAX**: 574•262•2550
INTERNET: http://www.atwoodmobile.com

LITERATURE NUMBER MPD 91614

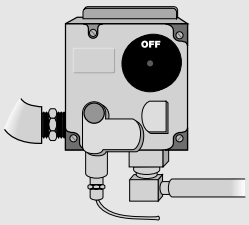
GAS CONTROL VALVE THERMOSTAT REPLACEMENT

PILOT MODELS

Effective 12/22/09



Robertshaw Unitrol



White Rodgers (Jade) Control

FOR COMPLETE WATER HEATER INSTALLATION CONSULT THE INSTRUCTIONS PROVIDED WITH UNIT.

CONTROL VALVE P/N	MANUFACTURE	GAS INLET	GAS OUTLET
91602	Replacement for White Rodgers	3/8˝ pipe thread	3/8˝ pipe thread

⚠ WARNING
FIRE AND/OR EXPLOSION

- Use with LP gas only.
- Installation in Recreation Vehicles only. RVs are recreation vehicles designed as temporary living quarters for recreation, camping, or travel use having their own power or towed by another vehicle.

REMOVAL PROCEDURES

Before replacement, note and mark position and angle of control, inlet fitting and orifice elbow so that those components can be assembled to their original positions. **(Orifice and Burner tube will need to be perfectly straight.)**

⚠ WARNING
FIRE OR EXPLOSION

- Shut off gas supply at LP container before disconnecting a gas line.

1. Shut off LP gas.
2. Shut off incoming water supply.
3. Drain water hater.
4. Remove incoming gas line-A.
5. Remove main burner-B and pilot/thermocouple assembly-C.
6. Remove orifice elbow-D. (Re-use in new valve)
7. Unscrew and remove control valve from water heater tank.

INSTALLATION PROCEDURES: (See Valve Orientation Figures)

1. Apply pipe sealant to control valve threads-E and screw firmly into tank, stopping at the same position as original valve.
2. Turn on water supply; check for water leaks around control. Tighten valve if necessary.

⚠ CAUTION
PRODUCT DAMAGE

- Do not put pipe sealant on first two threads of inlet and outlet fittings.
- Do not put pipe sealant on “inverted flare fitting” or copper tube flare nut fittings.
- Do Not Remove the Plastic Sleeve from the Thermostat Bulb.

3. Apply pipe sealant to incoming elbow-F screw into control valve body at same angles as originally. Use either 45° elbow (for 6 Gallon) or 90° elbow (for 10 Gallon) inlet (provided).
4. Attach gas line-A to elbow-F and reinstall main burner-B and pilot/thermocouple-C to control valve. It may be necessary to rotate control and/or orifice elbow to obtain proper alignment. **Orifice elbow and main burner must be reassembled in a straight line.**

NOTE: Thermocouple fitting into control should be finger tight plus 1/4 turn with wrench.

⚠ WARNING
DEATH, EXPLOSION, FIRE OR CARBON MONOXIDE POISONING

- LP gas is extremely flammable. Test all fittings for gas leaks prior to operation.
- DO NOT use matches, candles or other sources of ignition when checking for gas leaks.
- **INSTALLATION SHOULD ONLY BE PERFORMED BY A CERTIFIED TECHNICIAN.**

5. Turn on gas bottles; check incoming gas connection for leaks with leak detection solution and correct leaks if necessary.

⚠ CAUTION
PRODUCT FAILURE

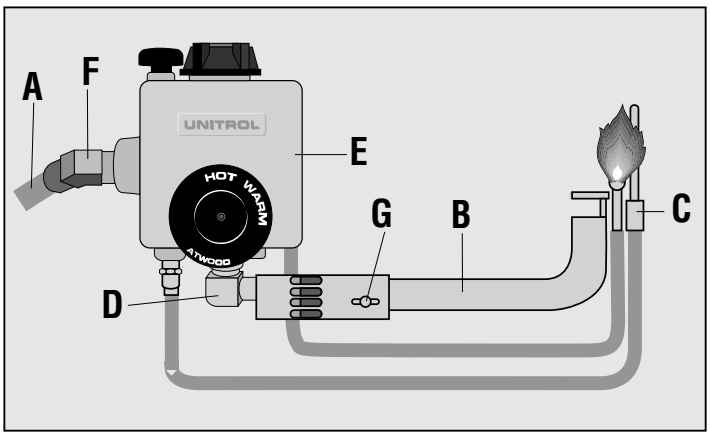
- Do not operate water heater without water in tank.

6. Follow lighting procedure instructions on water heater to light pilot; check pilot gas line with leak detection solution and correct leaking if necessary.
7. Turn control knob to ON; set temperature setting to turn on main burner flame; check orifice elbow connection for leaks with leak detection solution and correct leaking if necessary.
8. Adjust main burner flame by loosening air shutter set screw-G. Slide main burner air shutter to right until some yellow appears in main flame; then move to left until yellow disappears. Tighten set screw.

⚠ WARNING
SCALDING INJURY

- Setting the temperature control dial at a higher position will produce hotter water.

Figures for Valve Orientation

6 GALLON

10 GALLON