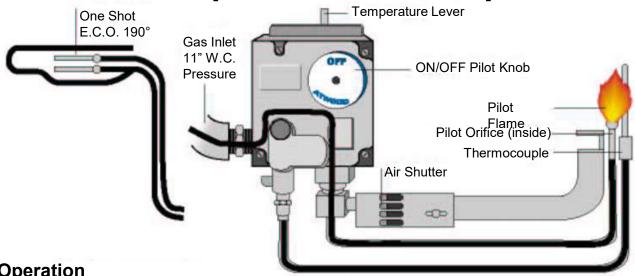
# Pilot Model





### Pilot Sequence of Operation



**Pilot Operation** 

• Gas Operation 11" W.C. to control is necessary. Set with two gas appliances running.

Gas Control Supplies gas to pilot orifice when control ON/OFF pilot knob is held at pilot

position.

Pilot Orifice Meters gas to heat thermocouple. Flame should be high enough to engulf the

thermocouple.

Thermocouple Generates millivoltage to the gas control's magnet assembly.

Magnet When it receives 12 millivolts or more it allows gas to flow freely to pilot without

holding pilot knob.

• **E.C.O.** Passes millivolts through the gas control and back to thermocouple. Trips

permanently open if water temperature exceeds 190° F.

#### **Main Burner Operation**

Gas Control
 Supplies gas to main burner when control knob is set to "ON" position and the

temperature lever is set to desired temperature after pilot is lit.

• Main Burner Orifice Meters gas through the burner tube.

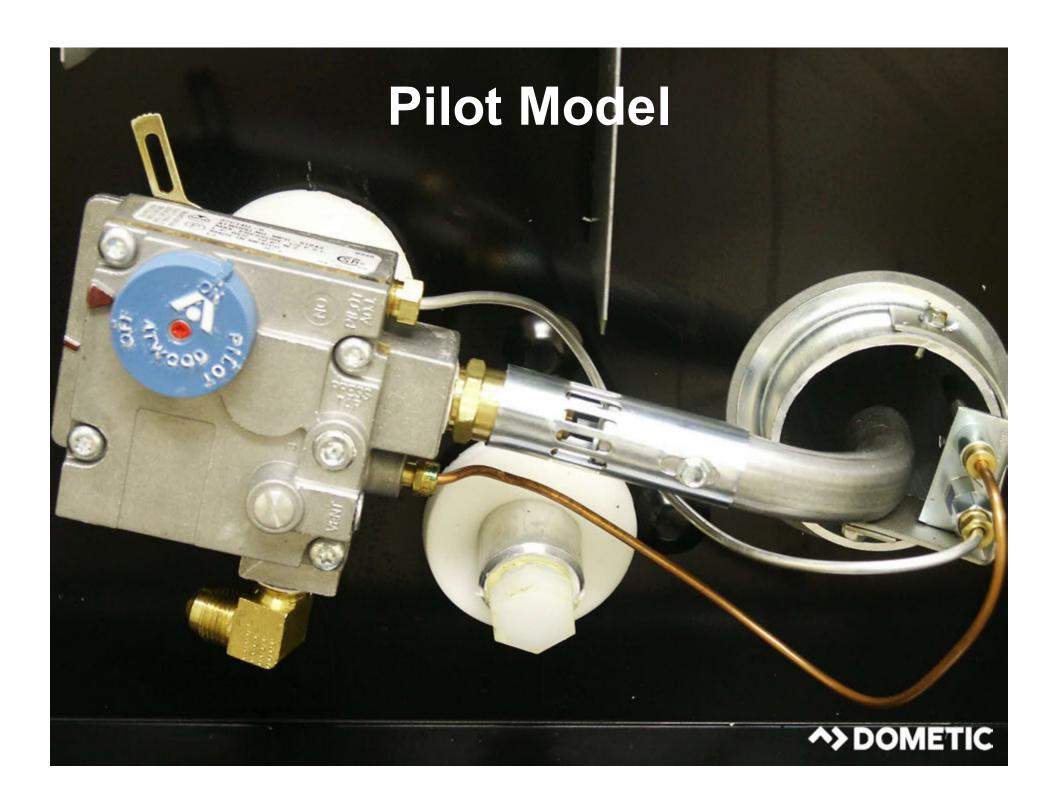
Main Burner Pilot ignites gas when it reaches end of this tube. Flame height adjusted by

sliding air shutter. Ideal setting is 1/4 way open (.20). Flame should be primarily

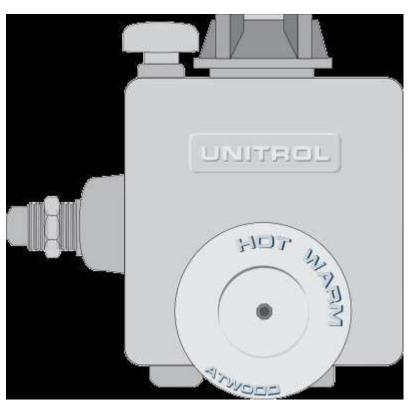
blue with trace of yellow.

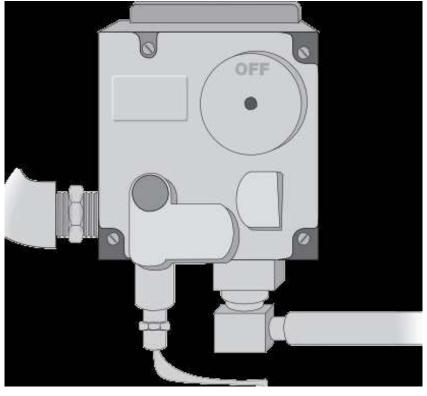
Temperature Knob Setting of knob determines burner cycle and water temp. Temp range is 70-

140°F.



## New Pilot Valve 91602





#### **ROBERTSHAW "UNITROL"**

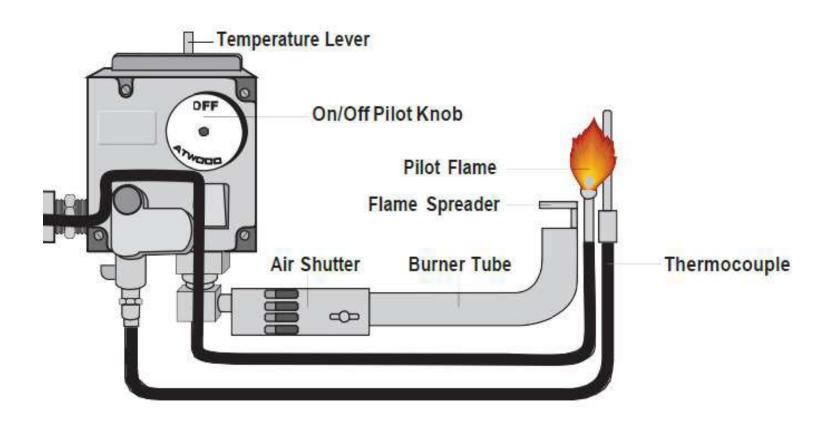
- 3/8" Inverted inlet 3/8" N.P.T. outlet (no longer available)
- 3/8" N.P.T. inlet 3/8" N.P.T. outlet

#### WHITE RODGERS (JADE, ITT)

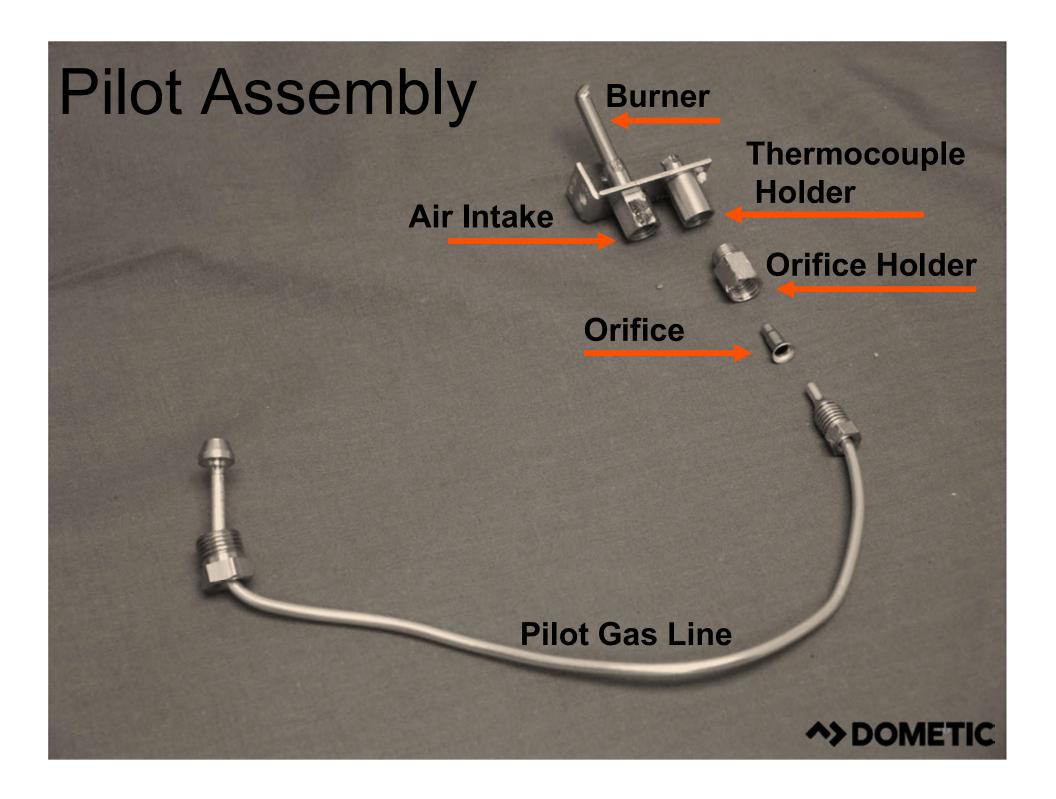
- 3/8" N.P.T. outlet (no longer available)
- 1/4" N.P.T. inlet 3/8" N.P.T. outlet (replaces all Robertshaw and Jade controls)

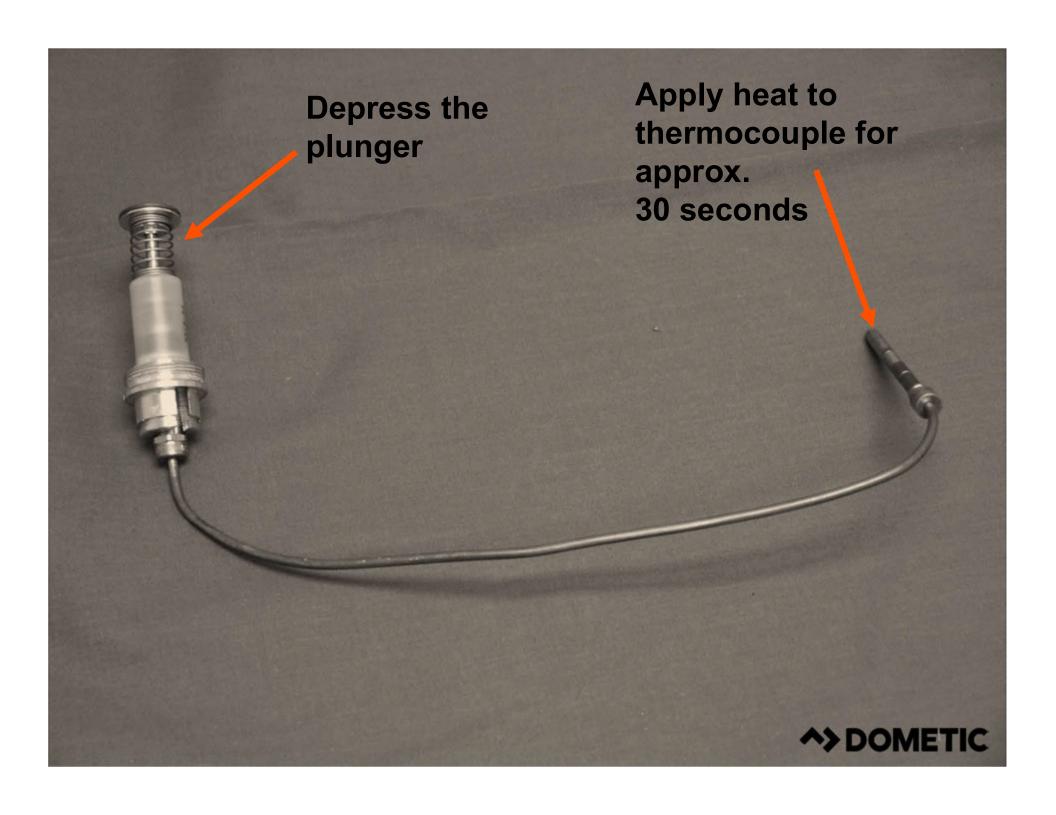


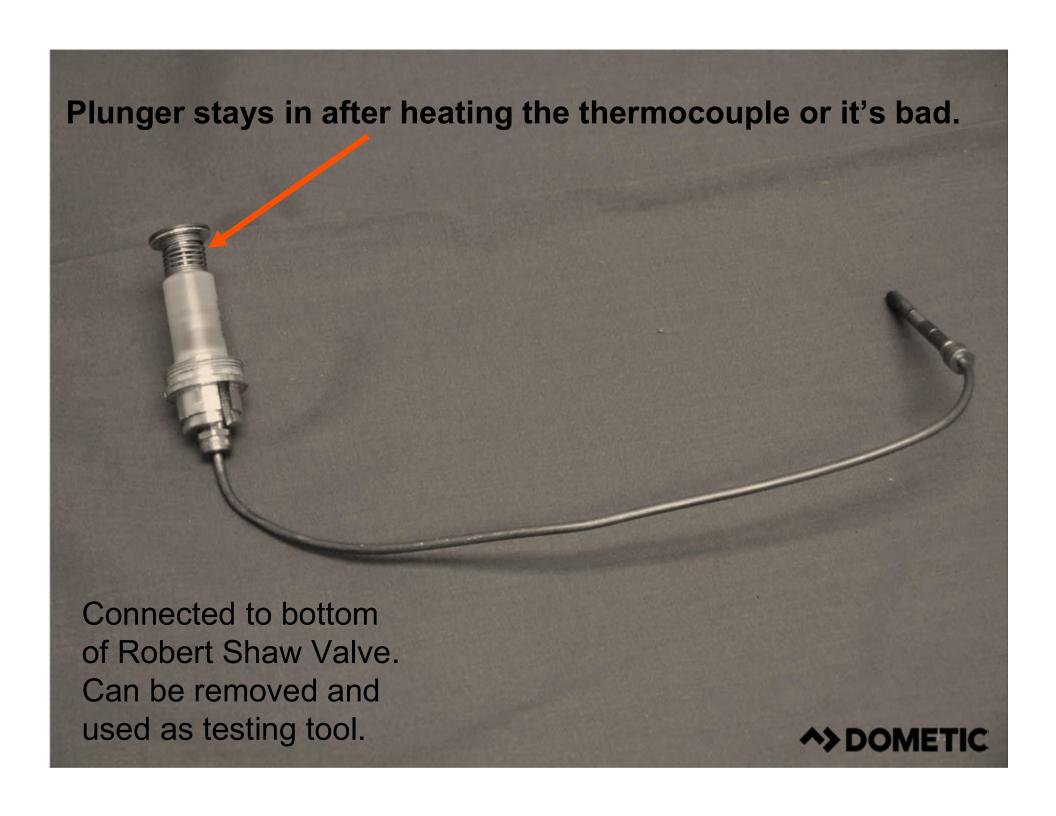
## Thermostat adjustment 70 to 140 F







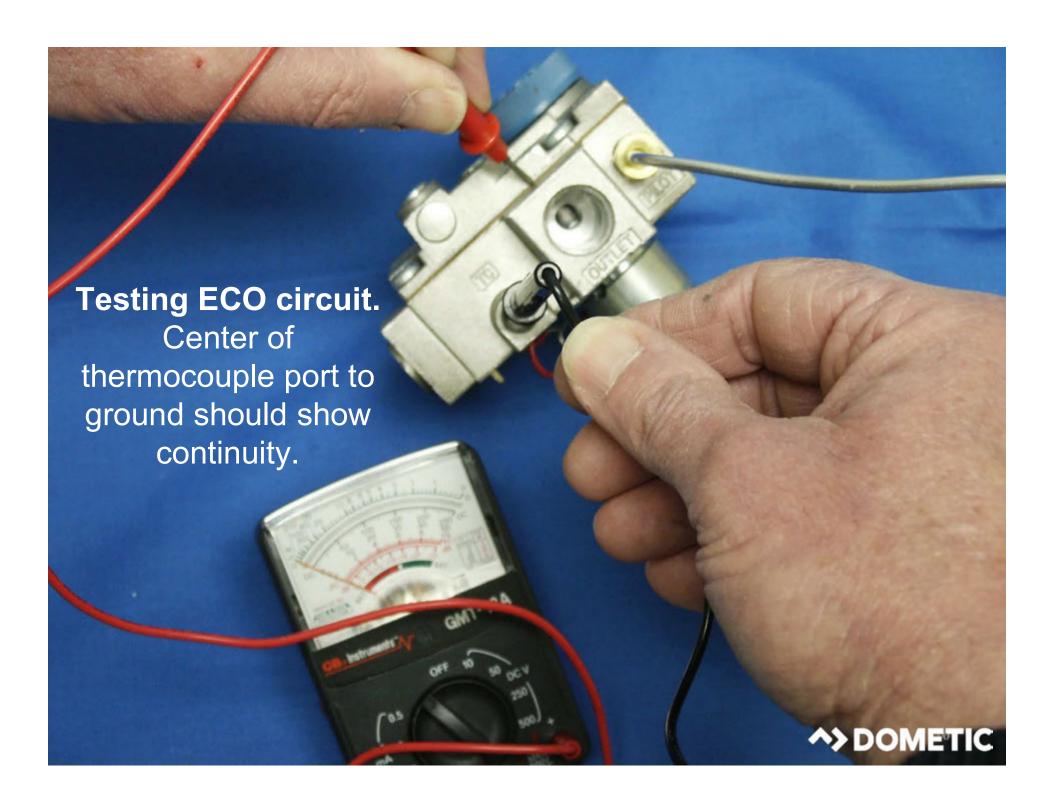














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I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!

DARREN KOEPP - OWNER, MY RV WORKS, INC.

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