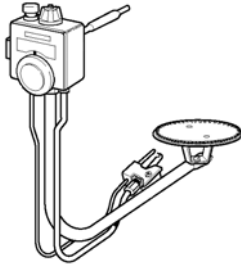
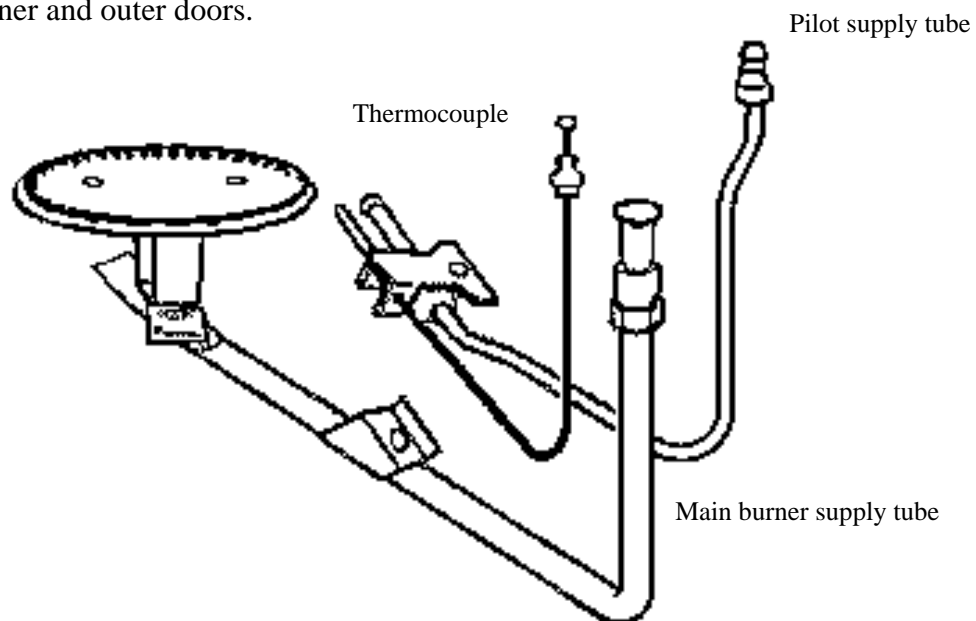




**How to Replace a Thermocouple
Residential Standing Pilot Gas**



1. Shut off gas supply to water heater.
2. Remove outer and inner doors. Disconnect the burner assembly from the gas control by loosening the pilot tube, supply tube and thermocouple connections. Remove burner assembly from the combustion chamber.
3. Remove the old thermocouple by slowly but firmly pulling and twisting it from the thermocouple bracket.
4. Install the new thermocouple by pushing the tip into the thermocouple bracket until it stops. Position the thermocouple tip so that the pilot flame envelopes the top 3/8" to 1/2 " of the tip.
5. Replace burner assembly in combustion chamber. Look for the small mounting bracket in the floor of the combustion chamber.
6. Tighten the main burner supply tube, pilot supply tube and thermocouple connection to the gas control valve. Thermocouple should be no more than one quarter (1/4) turn beyond hand tight.
7. Turn gas supply back on and relight water heater.
8. Check main supply tube and pilot supply tube at the gas control valve for gas leaks with a soap and water solution. Bubbles indicate a leak. Tighten all connections if a leak is found.
9. Visually verify the thermocouple is enveloped in the pilot flame.
10. Replace inner and outer doors.



Maintenance Tip: While the burner assembly is out of the combustion chamber, take the time to clean and vacuum the combustion chamber. Brush and clean the burner plate and orifice. Look for signs of rust and sooting.