



Thermocouple  
Figure1

## Thermocouple:

Thermocouples can be part of the pilot assembly or a separate part. Either as part of the pilot assembly or as a separate part the Thermocouple (figure 3) must be in contact with the pilot flame (figure 1) to ensure a proper amount of millivolts are generated. An improper flame (figure 2) can cause for the loss of heat generated on the Thermocouple and not allowing the unit to operate.

## How it works?

A Thermocouple is connection between different types of metals that will produce voltage related to the temperature. Voltage produced is measured in millivolts or milliamps. Voltage is used to control the main gas control for proper use. An average of 30 milliamps DC or 17 millivolts DC is needed to operate correctly. Contact your local heating contractor to have the Thermocouple checked for proper operation. If the Thermocouple is faulty it will cause the unit to shut down.

## How to clean?

Remove Thermocouple from pilot assembly, using steel wool or emery cloth to lightly clean the tip removing any soot or build up that might have accorded due to an improper pilot flame. Using an eraser from a pencil; clean the threads of the nut that connects the Thermocouple to the control valve and then re-tighten. Relight pilot according to manufactures recommendations.

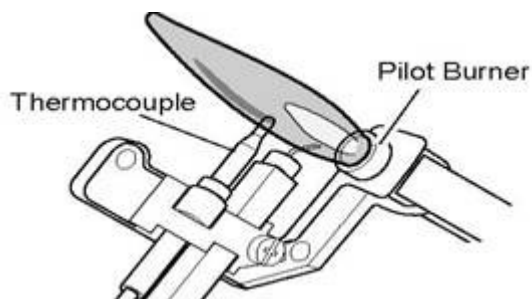


Figure 1:

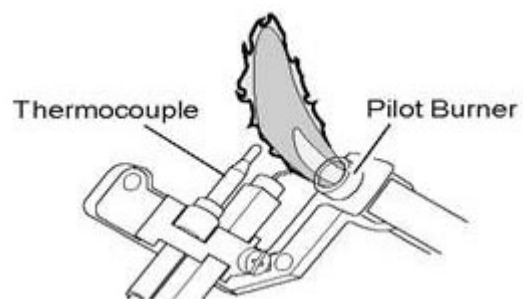


Figure 2:

This information is intended for use by individuals with an adequate knowledge of electrical and mechanical skills. Attempts to repair by individuals without those skills can result in injury, as well as property damage. Contact your local Heating Contractor for service.