

A

B

Install jumper wire from N.O. terminal to the COM terminal. Does water heater operate now? **Make sure this test is done with the wiring still connected.**

NO

Do you have 110 - 120 VAC at black and white wires on the transformer?

NO

Check AC source to determine why no power.

YES

YES

Check sensor leads for proper resistance with OHM meter. See APPENDIX A on next page for correct ohm readings. Are sensor readings correct?

NO

Check continuity for loose, broken, or shorted wire. Replace sensing bulb or wiring harness as necessary.

Do you have 22 - 27 VAC at TR-C & TR-H on transformer.

NO

Replace the transformer.

NOTE

YES

Draw water from the T & P valve. Compare temperature with temperature ohms chart (Appendix A).

YES

Check remote temperature dial for proper resistance. Proper readings should be greater than 4800 Ohms at minimum setting and less than 50 Ohms at maximum. Are the readings correct?

Do you have 22 - 27 VAC at TR & TH on the module?

NO

Recheck steps 1 & 2

Replace temperature (circuit) board.

YES

Do you have 22 - 27 VAC at terminals PV & PV/MV on the module?

NO

Replace module.

YES

YES

Do you have 22 - 27 VAC at terminals PV & PV/MV on the gas valve.

NO

Check wires, replace ECO & Sensor if necessary.

Replace remote temperature control.

NO

YES

Do you spark at the pilot assembly?

NO

Inspect pilot assembly. If checks ok, replace module.

Be Careful When Making Voltage Measurements or Jumping Terminals Not to Damage or Deform Connectors or Connector Pins

YES

Do you have gas flow to the pilot assembly?

NO

Inspect pilot orifice for any obstructions. If gas pressure are within specifications, replace gas valve.

YES

Clean and adjust pilot assembly.