Remote Controller

Thermal Fuse / Overheat Switch:
- In IG System:
  - E1: 11 ~ 13 VDC, 3.5 ~ 3.9 K ohms
  - F2: 11 ~ 13 VDC, 5.5 ~ 6.2 K ohms
- In (POV) System:
  - H2: 2 ~ 15 VDC, 67 ~ 81 ohms
- In (Main) System:
  - Pink - Black: Wire color Voltage Resistance Connector # Pin #'s

Gas Pressure Setting
- Yellow - Black: 11 ~ 13 VDC, 3.5 ~ 3.9 K ohms
- Black - Red: 11 ~ 13 VDC, 5.5 ~ 6.2 K ohms
- Orange - Orange: 2 ~ 15 VDC, 87 ~ 106 ohms

Dip Switches Settings
- Adjust switches 2 and 3 in the bank of 8 depending on your altitude according to the table below.
- The original PC boards on the water heaters do not have these dip switches. Only spare PC boards have this bank.

Error Codes
- Over Temperature Warning: Check for leaks in air flow around unit and vent terminal.
- Gas Pressure Setting Fault: Check for low water flow in a circulating system causing short cycling.
- Water Flow Servo Fault: Check sensor wiring for damage.
- Mobile Home / RV: Check sensor wiring for damage.
- Heat Exchanger Outgassing Temperature Sensor Fault: Check sensor wiring for damage.
- Heat Exchanger Exhausting Temperature Sensor Fault: Check sensor wiring for damage.
- Gas Pressure Setting Fault: Check sensor wiring for damage.
- Gas Solenoid Valve Signal Abnormal: Check moduleing gas solenoid valve wiring harness for loose connections.
- Water Flow Servo Fault: Check sensor wiring for damage.
- Modulating Gas Solenoid Valve Signal Abnormal: Check moduleing gas solenoid valve wiring harness for loose connections.
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Wiring Diagram

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High Warning
- DO NOT adjust the other dip switches unless specifically instructed by the manufacturer. Incorrect Dip Switch settings can cause the water heater to operate in an unsafe condition and may damage the water heater and void the warranty.

Troubleshooting
- There are a number of checks that need to be completed before a technician can attempt to diagnose any problems. This procedure should be followed on all new installations and when troubleshooting existing systems.
- IMPORTANT SAFETY NOTICE: This appliance must be installed, serviced and repaired by a qualified, experienced technician. If you have problems with your water heater, please contact your manufacturer service representative.
- ANSI/ASME Section VIII and NFPA 54 are the most widely used codes and standards for natural gas appliances. Always refer to the latest edition of these codes and standards for the most current information regarding installation and operation.
- If you are servicing a water heater that was not installed by a qualified technician, it is recommended that you have a professional check the unit for proper installation and operation before use.
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