

TROUBLE SHOOTING CHART

DUO-THERM 65900 SERIES FORCED AIR FURNACE

A. Pilot won't light

1. No gas to furnace: Check tank valve, regulator; check for restriction in piping.
2. Plugged pilot orifice: Clean with lacquer thinner or compressed air, or replace orifice.
3. Restricted pilot tube: Clean tube; if crimped, replace tubing.
4. Defective gas control: Check pilot adjustment screw. If open, control is internally restricted. Replace control.
5. Ignitor electrode not arcing: Check for improper electrode setting. Re-adjust if necessary. Electrode should have 1/8" gap to pilot hood. Also check for cracked electrode or wire insulation. Check spark pump. Should be able to create strong arc across 1/8" gap.

B. Pilot goes out when button is released

1. Flame not hitting thermocouple: Check pilot adjustment screw, pilot orifice; check for restriction in pilot burner.
2. Defective thermocouple: Check output with millivolt meter and thermocouple adaptor (ITT #103050 G). If output is less than 8 millivolts, replace thermocouple.
3. Loose thermocouple connection: Connection should be finger-tight, plus 1/4" turn. DO NOT OVER TIGHTEN.
4. Defective magnet in gas control: Replace control.

C. Main burner won't light - blower runs when thermostat is closed.

1. Air prover switch not closing: Check blower rotation. If 12 volt polarity is reversed, blower will run backwards; however, air prover switch will not close. Also, if battery voltage is low, air prover switch will not close. Blower wheel should