
Section 5:

Trouble Shooting

Section 5: Trouble Shooting - Gas Heater

Symptom	Probable Cause	Suggested Remedy
Tumbler does not turn	Drive belts	Check both drive belts
	Drive motor	Check capacitor and motor
	Door switch	Check door switch contacts and adjustment
	Micro control	Check that LED's are lit and green start key pushed
	Motor Relay	Check motor relay coils (24v) and contacts.
Tumbler turns but no spark temperature	Temperature	Check for selected in formula at burner
	Spark Electrode	Check electrode for damage to electrode or mounting
	Temperature Sensor	Check by plugging in good sensor
	Ignition Transformer	Check for 24 V out of transformer to ignition control
	Ignition control Air flow switch	Try another control Check for circuit through air flow switch
	Hi-limit	Check hi-limit
	Over-temp	Check by inserting pencil eraser side thru (Manual Reset) hole and push to reset
	Gas supply	No gas can cause system lockout check for W.C.

Symptom	Probable Cause	Suggested Remedy
Tumbler turns ignition sparks no flame	Gas supply	Make sure gas supply is working
	Gas pressure	Make manometer check of gas pressure for 3 .5"W.C.
	Spark electrode	Check electrode for damage to electrode or mounting
	Gas valve	Check coil continuity, replace valve if bad
Slow drying	Thermostat	What is temperature set at on control
	Air flow Restrictions	Follow installation guidelines for static back pressure and make up air
	Lint screen	Clean screen
	Exhaust	Check complete exhaust system for excessive back pressure in the duct work. No more than .3 static pressure.
	Makeup air	Check for adequate makeup air (1.25 sq. Ft.)
	Temp sensor	Clean or replace sensor if necessary
	Gas	Gas pressure at burner should be (3.5" W.C.) while burning
	Blower Impeller	Check impeller for operation and check mounting set screw
	Steam & Electric Heated	Check relay for activation. Check steam Check steam valve for steam trough.

Dryer Fault Codes

FAULT#	FAULT DESCRIPTION	ACTION
F1	Shorted thermostat sensor	Dryer stops and "F1" flashes on the 4- digit display. When short circuit on sensor input is removed, "LOAD" appears on the 4-digit display and the remaining dry time is reset.
F2	Open thermostat sensor	Dryer stops and "F2" flashes on the 4-digit display. When a good sensor is connected to sensor input, "LOAD" appears on the 4-digit display and the remaining dry time is reset.
F3	EEPROM corrupted.	Dryer will not start and "F3" appears on the 4-digit display. The power to the dryer must be cycled to reset the controller. Fault should only occur when starting a dry cycle.
F4	Gas valve on fault.	The drying temperature did not increase 1°F. in 5 minutes. "F4" will flash on the display and the dry cycle will finish without calling for heat (energizing gas valve). Opening the door or pressing the STOP key will reset the fault and clear the remaining time in the dry cycle.
F5	Temperature fault.	The drying temperature is at least 25°F. above the temperature setting. "F5" will flash on the 4-digit display and the dry cycle will finish without calling for heat (energizing the gas valve). The power to the dryer must be cycled to reset the controller.