Dryer Tech Data Sheet

This information is intended for Qualified Technicians Only.

CAUTION: DISCONNECT ELECTRICAL CURRENT BEFORE SERVICING

Please Return This Sheet to its Envelope in the Product for Future Reference

Contents **Page**

Acronym Table

CW – Clockwise
CCW – Counter Clockwise

READING ERROR CODES

1. Wake the dryer up by pressing any button but "**cancel**".
2. Press and hold the **"cancel"** and "**start pause**" buttons simultaneously for 6 seconds to show the last error code recorded. The error code will appear in the display as an E followed by two numbers. NOTE: E00 means no failure code experienced.
3. To view the last 5 error codes recorded, refer to the Diagnostic Mode listed below.
4. Troubleshoot problem by using the chart below.

Error Code	Fault	Possible Fault Conditions	Possible Solutions
E31	Contact Sensor frequency too high	Electronic Control Board defective or foreign object interfering with contact sensor	Check Contact Sensor and wiring. If no problems are found with Contact Sensor, replace Electronic Control Board.
E32	Contact Sensor frequency too low	Electronic Control Board defective or foreign object interfering with contact sensor	Check Contact Sensor and wiring. If no problems are found with Contact Sensor, replace Electronic Control Board.
E42	Door Sensing failure	Electronic Control Board defective	Replace Electronic Control Board.
E51	Motor Relay failure	Motor Relay stuck open or closed; Wiring defective	If motor runs continuously with power applied check for short circuit across motor relay (RL2), or L1 applied to motor relay output (J3-1) with cycle stopped. If motor does not start when "start" key is pressed, check for open circuit between L1 and motor relay connection (J3-2). If no wiring problems found, replace Electronic Control Board.
E52	Motor Fault – motor stopped or not starting	Motor overheating; Laundry load too heavy; Low power supply; Motor, or Wiring defective	Remove any load from dryer and check if drum turns freely by hand. Check L1 power supply voltage, motor wiring, and motor thermal protector (if motor thermal protector has tripped, it may take up to 30 minutes to reset).
E53	Motor Centripetal Switch Failure	Motor Centripetal Switch, Electronic Control Board Defective, or wiring defective.	Check wiring. Check if Motor Centripetal Switches are stuck in open or closed positions. Replace motor. Replace Electronic Control Board.
E54	Motor Sensing failure	Electronic Control Board defective	Replace Electronic Control Board and retest.
E61	Heater Relay failure	Heater relay stuck open or closed; Wiring defective	Check for short circuit across heater relay(s) (RL5, RL6, RL7) or L1 applied to heater relay output(s) (J5-2, J7-1, J7-3) with cycle stopped. Check for open circuit between L1 and heater relay connection(s) (J5-1, J5-3, J7-2). If no wiring problems are found, replace Electronic Control Board and retest.
E63	Heater to Earth Ground	Heating element or wiring defective	Check heater coils and connections for short circuits to the cabinet. Replace heater and/or wiring and retest.
E64	Heater Open Circuit	Heating element or wiring defective	Check heater coils and connections for open circuits. Replace heater and/or wiring and retest.
E65	High Limit Thermostat trip count too high	High vent restriction, High Limit Thermostat defective or Inlet Thermal Limiter tripped (Electric Model only)	For Electric Model, check Inlet Thermal Limiter for continuity. If Thermal Limiter is open, check for evidence of high temperature event and any resulting damage. If no further damage is evident, replace Thermal Limiter. If no problems are found with the Thermal Limiter, check exhaust vent system for air blockages. If no problems with vent restrictions, check/replace High Limit Thermostat, and retest.
E66	Thermal Limiter Open Circuit	Outlet Thermal Limiter tripped Inlet Thermal Limiter tripped (Gas Model only) or wiring defective	Check Outlet Thermal Limiter for continuity. For Gas Model, also check Inlet Thermal Limiter for continuity. If Thermal Limiter is open, check for evidence of high temperature event and any resulting damage. If no further damage is evident, replace Thermal Limiter and retest.
E67	Heaters Sensing Failure	Electronic Control Board defective	Replace Electronic Control Board and retest.

Error Code	Fault	Possible Fault Conditions	Possible Solutions
E71	Outlet Control Thermistor open circuit	Outlet Control Thermistor or wiring defective	Check resistance of Outlet Control Thermistor, and check wiring for open circuit. Resistance should be between 4.9K Ohm and 6.2K Ohm at room temperature (68-77° F or 20-25° C). Replace Outlet Control Thermistor and/or wiring and retest.
E72	Outlet Control Thermistor short circuit	Outlet Control Thermistor or wiring defective	Check resistance of Outlet Control Thermistor, and check wiring for short circuit across Thermistor connections. Resistance should be between 4.9K Ohm and 6.2K Ohm at room temperature (68-77° F or 20-25° C). Replace Outlet Control Thermistor and/or wiring and retest.
E73	Inlet Control Thermistor open circuit	Inlet Control Thermistor or wiring defective	Check resistance of Inlet Control Thermistor, and check wiring for open circuit. Resistance should be between 47K Ohm and 66K Ohm at room temperature (68-77° F or 20-25° C). Replace Inlet Control Thermistor and/or wiring and retest.
E74	Inlet Control Thermistor short circuit	Inlet Control Thermistor or wiring defective	Check resistance of Inlet Control Thermistor, and check wiring for short circuit across Thermistor connections. Resistance should be between 47K Ohm and 66K Ohm at room temperature (68-77° F or 20-25° C). Replace Inlet Control Thermistor and/or wiring and retest.
E91	Communication Error	Wiring, Electronic Control Board, or Interface Board defective	Check connections between Electronic Control Board and Interface Board. If no wiring problems, replace Electronic Control Board or Interface Board.
E92	Incompatible protocol	Electronic Control Board incompatible with Interface Board	Check if correct Interface Board console and Electronic Control Board are installed. Replace appropriate hardware.
E93	Machine configuration checksum error	Wrong configuration data loaded, Interface Board or Electronic Control Board or wiring defective	Check if correct Interface Board and console are installed. Replace Interface Board and/or console.
E94	Cycle configuration checksum error	Wrong configuration data loaded or Electronic Control Board defective	Replace Electronic Control Board.
E97	Program mismatch	Wrong configuration data loaded, Electronic Control Board defective	Replace Electronic Control Board.
EA1	Main Supply Frequency out of Range	Line frequency out of limits or Electronic Control Board faulty	Check frequency of line voltage.
EA2	Voltage too high	Line voltage too high or Electronic Control Board faulty	Check amplitude of line voltage.
EA3	Voltage too low	Line voltage too low or Electronic Control Board faulty	Check amplitude of line voltage.
EA4	Improper home wiring	Line connections in home faulty, wiring or Electronic Control Board defective	Check wiring at terminal block for L1-N-L2 wired incorrectly.
EA5	Main V Sensing failure	Electronic Control Board defective	Replace Electronic Control Board.
EF1	Vent Blocked	High vent restriction, Exhaust Control Thermistor, Inlet Control Thermistor, or Electronic Control Board defective	Check vent restrictions and resistance values of Exhaust Control Thermistor and Inlet Control Thermistor.
EF3	Max Timeout Timer	Exhaust blocked; Exhaust Control Thermistor, Inlet Control Thermistor, Contact Sensor or Electronic Control Board defective	Check vent restriction, Contact Sensor, and resistance values of Exhaust Control Thermistor and Inlet Control Thermistor
EF8	Key Stuck	Console button or Interface Board defective	Check buttons for activation when pressed. Replace console or Interface Board as appropriate

FACTORY RESET

1. Press and hold the **"Temperature"** and **"Dryness"** buttons simultaneously for 6 seconds.

INSTALLATION CYCLE

1. Use the selector knob to select the **"touch up"** cycle
2. Press and hold the **"my favorite"** and **"sanitize"** buttons simultaneously for 6 seconds.
3. **Remove any load from the dryer** and press **"start pause"** to start installation cycle.

DIAGNOSTIC MODE

1. Press the **"cancel"** button to enter standby mode and enable diagnostic entry.
2. Within 10 seconds after pressing **"cancel"**, press any button (but "**cancel**") to wake up the control.
3. Within 5 seconds of wake up, turn the selector knob to the far left cycle and press and hold the **"cancel"** and **the far left button under the display** simultaneously for 3 seconds to enter the Diagnostic Mode. (note: to save time at wake up, the welcome screen can be bypassed by turning the selector knob).
4. Upon entering Diagnostic Mode, all lights should flash on and off.
5. The following steps can be cycled through by turning the selector knob clockwise:

Diagnostic Mode					
Selector Position	**Test/Activated Component Electric**	**Gas**	**Operator Check**	**LCD row**	**LCD digits**
0	Lights / Buttons test				
1	Motor Clockwise (CW)		Check Motor function. Look for Drum rotation in clockwise direction	"MOTOR CW"	
2	Contact Sensor		Check moisture reading. Place fingers across Contact Sensor and look for digit display to change from "1111" to "8888"	"MOIST. BARS"	"1111" if Contact Sensor open circuit;"8888" if Contact Sensor short circuited
3	Motor Clockwise (CW)		Check Motor function. Look for Drum rotation in clockwise direction	"MOTOR CW"	
4	Lights / Buttons test + Motor CW	Lights / Buttons test + Motor CW + igniter	Check all buttons and lights. Press all buttons and check for beep and button ID number in digit display. Check to see that all Lights function		button id number
5	Motor CW + Heater 1	Motor CW + Heater	Check Motor and Heater function. Check Outlet Control Thermistor value in digit display.	"HEAT1 - NTC1"	Outlet Control Thermistor value (degrees F)
6	Motor CW + Heater 1 + Heater 2	Motor CW + Heater	Check Motor and Heater function. Check Inlet Control Thermistor value in digit display.	"HEAT2 - NTC2"	Inlet Control Thermistor value (degrees F)
7	Motor CW + Heater 1 + Heater 2 + Heater 3	Motor CW + Heater	Check Motor and Heater function. Check Outlet Control Thermistor value in digit display.	"HEAT3 - NTC1"	Outlet Control Thermistor value (degrees F)
8	Motor CW		Check for Mist	"MIST VALVE"	
9	Error code history display		Check last 5 error codes displayed (See Table above for error code definitions)		error code
10	Software version		Software version	Software version	Software version

NOTE : To clear the error code (s): Press and hold the **far left key under the display** and "**cancel**" buttons simultaneously for 3 seconds.

6. To exit Diagnostic Mode:
   a) Unplug the power cord, wait 5-8 seconds, then reconnect the power cord **OR**
   b) Turn the program knob to the Start Position (lights/Buttons Test). Press the "**cancel**" and **far left button under the display** simultaneously for 6 seconds.