

Model: DV455EV** DV455GV**

Fast Track Troubleshooting

IMPORTANT SAFETY NOTICE — "For Technicians Only" This service data sheet is intended for use by persons having electrical, electronic, and mechanical experience and knowledge at a level generally considered acceptable in the appliance repair trade. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible, nor assume any liability for injury or damage of any kind arising from the use of this data sheet.

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Bulletins:

Support Information:

HELP: 1-888-751-4086 (Tech Sup. – ASC/SSD) 1-866-894-0637 (Tech Sup. - FE/ME)



Dryer Q&A

Q. What does it mean when chasing light appear in the display?	A. The chasing lights appear in the display when Wrinkle Prevent is selected. This lets you know that the dryer is tumbling intermittently for 95 minutes with room temperature air after the cycle is complete to reducing wrinkling. The load is dry and can be removed at any time during Wrinkle Prevent.	
Q. Why is the estimated drying time so long?	A. The initial estimated drying time will be longer because the dryer has not yet detected the amount of moisture in the load. After the dryer has been running for several minutes, a more accurate estimate will be displayed. Remember, the times are estimated. The actual drying time may be longer or shorter, depending on the load.	
Q. My dryer seems to run longer than I expect. Why?	A. The dryer automatically senses the dryness level of load. Be careful to avoid overloading your dryer. For best drying results, avoid mixing heavy and lightweight items in the same load.	
Q. My dryer has an unpleasant Odor	 A. The lint trap has not been cleaned. If the lint trap is not cleaned it can block moisture from escaping from the drum and the air inside is recycled, through the old lint. This concept also applies to lint clogging the exhaust duct. Both conditions can also lead to moisture being trapped in the drum, which will prevent the dryer from drying clothes completely. B. The clothes from the washing machine were sitting in the washing machine for too long and started to mildew or sour, or there was an odor from the washing machine. When sour clothes are first pulled out of the washing machine, the smell may be less noticeable. However, once heat is applied, the smell is intensified. C. A small animal (birds, Mice, lizards, etc) has climbed into the exhaust vent. Small animals are drawn to the exhaust vent because of the warmth. It is very important to cover this vent with a laundry exhaust vent cover. 	

	ELECTRIC AND GAS DRYER						
ĺ	Weather Hood Type						
	Recommended		Use only for short-run installation				
	4" (10,16 cm)		2.5" (6.35 cm)				
	Rigid	Metallic Flexible*	Rigid	Metallic Flexible*			
Ī	24.4 m (80 ft.)	12.4 m (41 ft.)	22.6 m (74 ft.)	10.1 m (33 ft.)			

No. of 90° elbows	Rigid	Metallic Flexible*	Rigid	Metallic Flexible*
0	24.4 m (80 ft.)	12.4 m (41 ft.)	22.6 m (74 ft.)	10.1 m (33 ft.)
1	20.7 m (68 ft.)	11.2 m (37 ft.)	18.9 m (62 ft.)	8.8 m (29 ft.)
2	17.4 m (57 ft.)	10.1 m (33 ft.)	15.5 m (51 ft.)	7.6 m (25 ft.)
3	14.3 m (47 ft.)	9.0 m (29 ft.)	12.5 m (41 ft.)	6.5 m (21 ft.)

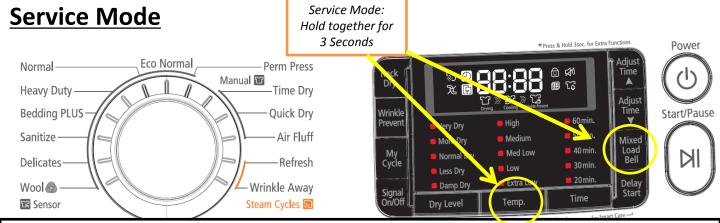
Do not use non-metallic flexible duct.

Clogged Vent

- Clogged vents will prevent the clothes from drying properly
- Make sure the vent is clear of debris and lint build-up







How to enter Service Mode:

- To enter Service Mode, press Mixed Load Bell + Temp. Keys 3 seconds in normal mode until it sends out a beeping sound.
- If pressing Mixed Load Bell + Temp. Keys in Service mode, it will return Normal mode.
- -Even though entering Service mode, the operating cycle will not be influenced.

SENSOR BAR Check - How to Enter:

- Same as Service Mode (Mixed Load Bell + Temp for 3 seconds) during the drying process

When there are wet items being dried, data will add up (from 0 to 1200 and repeating) as the wet clothes touch the sensor bars.

It is to check the moisture sensor bars (if it does not change with wet clothes inside, check the sensor bars.)

Data **Display**

How to enter:

Pressing the **TIME** button in Service Mode with put you into data display mode.

If pressing Adjust Up Key in this mode ,Display Mode ID will be increased.

If pressing Adjust Down Key in this mode ,Display Mode ID will be decreased

Display Mode 0: Temperature data

Display Mode 1: Average Touch Sensor data for 1 minute Display Mode 2: Average Temperature data for 1 minute.

Cycle **Count**

How to Enter:

Press the Mixed loaded bell key in Service Mode.

Definition of Sensor Bar Touch Data Mode:

This mode will bring up the total number of cycles that the Unit has done.

Continuous Run

How to Enter:

Press Mixed Load Bell +Dry Level for 7 sec during Power On State (normal user mode).

Once in Continuous Run Mode, display "CC" for 1 sec and the remaining time for 2 sec in turns.

The previous cycle will restart during Continuous Run Mode until the mode is deactivated.

During Continuous Run Mode, press Mixed Load Bell +Dry Level for 7 seconds to go back to normal user mode.

Software Version

How to Enter:

At Service Mode, press Temp until it sends out a beeping sound

ex) In case of "U1 05", U1 means major version "U1", 05 means minor version "05".

If press Temp key In Software Version Mode, it will return Service Mode.

Definition of Software Version Mode

- It is to retrieve its software version

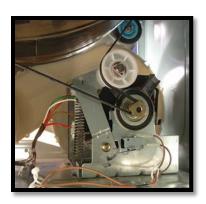


Error Codes

Error Display	Trigger	Action Taken
tE	The Thermistor resistance is very low or high.	Check for: - Clogged lint screen Restricted vent system Check Thermistor resistance.
tE3	The resistance of the thermistor for the vent blockage detection operation is very low or very high.	Check for: - Check the vent blockage detection thermistor Check the resistance of the thermistor.
dE	Running the dryer with door open.	Check for: - Close the door, and run the dryer Loose or open wire terminals in Door Sense circuit.
bE2	Invalid state of key circuit short for 30 secs.	Check for: - Display PCB key circuit short or not.
FE	Invalid power source Frequency.	Check for: Not using regular power source frequency. Invalid power frequency sense circuit.
2E	Electronic Control Problem. (Over Voltage Error)	Check for: - Check PCB and Wire harness Check Power supply.
AE	Electronic Control Problem. (Communication Error)	Check for: - Check PCB and Wire harness Replace PCB.
Et	Invalid state of Eeprom communication.	Check for: - PCB with Eeprom circuit.
AE4	A Communication error between the WIFI PBA and the MAIN PBA.	Check for: Check Wire harness between the Sub PBA and the Wi-Fi module. Make sure that the SSID stored in the Wi-Fi module and your wireless router matched the password is accessible within the range.
AE3	A Communication error between the DR Modem and the MAIN PBA.	Check for: - Check the DR modem connected - Check Wire harness between the Sensor board and the DR modem.
AE5	A Communication error between the LCD PBA and the MAIN PBA.	Check for: - Check Wire harness between the LCD module and the Main PBA.
dF	Invalid door state for more than 256 milliseconds.	Check for: - Loose or open wire terminals in Door Sense

Reference Info

Belt Position



■ Proper grounding and polarization for 120 volts wall outlets

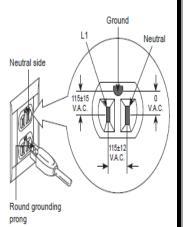
For the safety of our customers and the service technician ALL gas dryers have a three-prong power cord and MUST be connected to a properly polarized and grounded wall outlet. This information was written for those who do not understand grounding and polarization of a wall outlet. A 120 VAC wall outlet must always be wired as shown right.

Polarization - This means that the larger slot must be neutral and the small slot must be hot (live).

Mispolarized - The outlet is miswired so that the larger slot is hot (live) and the smaller slot is neutral.

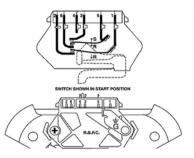
Grounded - This means the round hole connection is connected to ground through a connection to the main power panel.

Ungrounded - The round hole connection is not connected to a ground and/or the main power panel.



Troubleshooting

Checking the Motor

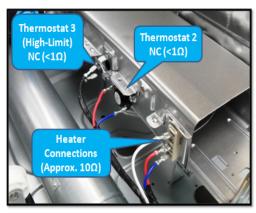




- Unplug the harness connector and the test motor circuits.
- Pin 3 and Pin 4 (Windings) should read ~ 2.88 Ω
- •Pin 4 and Pin 5 (Windings) should read \sim 2.88 Ω
- Pin 1 and Pin 2 (Centrifugal switch) should read ∞

If no Heating!! Electric Dryer

Heater Component Check



- Thermostat 2 is normally closed and directly tied to the heater connections; it will open up if the heating element gets too hot
- Thermostat 3 (High-Limit) is normally closed and will open up and shut down the dryer if it detects an excessively high temperature
- A defective High-Limit thermostat will prevent the dryer from operating

Belt Tension Sensor Switch



While inspecting the motor, check and adjust the belt tension switch. Replace if necessary while the motor is out of the machine

Blower Housing Component Check



Thermostat 1 is normally closed and will open up if the temperature in the exhaust fan gets too hot (trapped lint fire)

The <u>Melf resistor thermistor</u> monitors the temperature in the dryer, and feeds the information back to the Main PCB; this controls the function of the heating element

* If the basket does not spin check the Thermostat 1*

Sensor Bars & temperature sensor check

one or Dare

Disconnect harness and test Pink wire Pin 4 to Orange wire Pin 5.

- Approx ∞ Ω without laundry
- Approx 190Ω ± 10% with wet clothes

Cycling Thermistor1

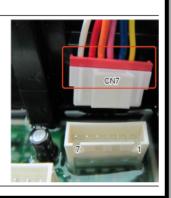
Disconnect harness and test Blue wire Pin 3 to Red wire Pin 6.

Approx 10 KΩ at 25 °C/77 °F

Cycling Thermistor2

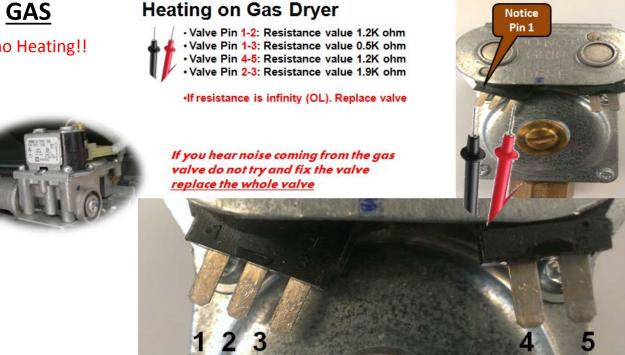
Disconnect harness and test Yellow wire Pin 2 to White wire Pin 7.

Approx 238.231 KΩ at 25 °C/77 °F



Troubleshooting

If no Heating!!



Flame Radiant Sensor is mounted on the Duct Ass'y



Igniter mounts on the Burner Ass'y





Troubleshooting

