

DISCOVERY DRYER TRAINING MANUAL



CAUTION!

**READ THIS MANUAL CAREFULLY
BEFORE DIAGNOSING OR SERVICING THIS PRODUCT.**



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Customer Service Website	us.lgservice.com
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LG CS Academy	lgcsacademy.com

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IMPORTANT SAFETY NOTICE

The information in this training manual is intended for use by persons possessing an adequate background in electrical equipment, electronic devices, and mechanical systems. In any attempt to repair a major appliance, personal injury and property damage can result. The manufacturer or seller maintains no liability for the interpretation of this information, nor can it assume any liability in conjunction with its use. When servicing this product, under no circumstances should the original design be modified or altered without permission from LG Electronics. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury. If wires, screws, clips, straps, nuts, or washers used to complete a ground path are removed for service, they must be returned to their original positions and properly fastened.

CAUTION

To avoid personal injury, disconnect the power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks. Also be aware that many household appliances present a weight hazard. At least two people should be involved in the installation or servicing of such devices. Failure to consider the weight of an appliance could result in physical injury.

ESD NOTICE

Some of the electronic components in appliances are electrostatic discharge (ESD) sensitive. ESD can weaken or damage the electronics in these appliances in a manner that renders them inoperative or reduces the time until their next failure. Connect an ESD wrist strap to a ground connection point or unpainted metal in the appliance. Alternatively, you can touch your finger repeatedly to a ground connection point or unpainted metal in the appliance. Before removing a replacement part from its package, touch the anti-static bag to a ground connection point or unpainted metal in the appliance. Handle the electronic control assembly by its edges only. When repackaging a failed electronic control assembly in an anti-static bag, observe these same precautions.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and the receiver; Connect the equipment to an outlet on a different circuit than that to which the receiver is connected; or consult the dealer or an experienced radio/TV technician for help.

COMPLIANCE

The responsible party for this device's compliance is LG Electronics Alabama, Inc.; 201 James Record Road, Huntsville, AL, 35824.

Contents

Regulatory Notices	3
Contents	4
Introduction	6
Sensor Dry	7
Manual Dry	7
Gas Safety Page	8
Specifications	9
Accessories	10
Installation (of accessories)	10
Rack	10
Stacking Kit	11
Pedestal	13
Modem and Monitor	15
Electric Dryer	16
Pigtail	16
4-wire Connection	16
3-wire Connection	17
Gas Dryer	19
Piping	19
Dryer Cycle Chart	20
Component Test Procedures	21
Motor Diagram and Schematic	22
Safety Switches	25
Control and PCB Layout	26
Wiring Diagram	28
Diagnostic Test	29
Test 1 – 120 V AC Electrical Supply	30
Test 2 – Thermistor Test (Power Off)	33
Test 3 – Motor Test	34
Test 4 – Moisture Sensor Test	35
Test 5 – Door Switch Test	36
Test 6 – Heater Switch Test (Electric Dryer)	37
Test 7 – Gas Valve Test (Gas Dryer)	38
Test 8 – Semiconductor Test	39
Gas Conversion (Natural to Propane)	40
Safety Warning	40
Orifice	41
Gas Valve Operation	42
Flow Chart	42
Ignition Sequence	42

continued on next page →

Contents, continued

Disassembly/Repair	43
Top Cover	43
Control Panel	44
Front Cover and Door	45
Door Reversal	45
Tub Front	46
Drum Assembly and Belt	46
Lamp	47
Vent Replacement (Rear to side exhaust)	48
Filter Assembly and Moisture Sensor	49
Back Cover	49
Air Duct	50
Rollers	51
Blower and Housing	52
Exploded Views	53
Top Cover and Control Panel	53
Cabinet and Door	54
Drum and Motor (Electric Dryer)	55
Drum and Motor (Gas Dryer)	56
Parts List	57

INTRODUCTION

The DISCOVERY dryer is very similar to other LG dryers with the exception of the LCD display on the control panel. The LCD display shows all the information formerly indicated by LEDs but also allows for scrolling instruction.



When a cycle is selected, the options are preset. They can be overridden by changing them using the option buttons.

Pressing the buttons cycles through the available options. If an option is not available for a particular cycle, it is grayed out or not available for selection. For example, the EXTRA HOT wash is not available for the DELICATE cycle.

The interior components remain the same: motor, belt, drum, and heat source (gas or electric). The gas model can be refitted with an orifice to allow the use of propane instead of natural gas. All such conversions and adjustments should be performed by a licensed and certified gasfitter.

The DISCOVERY model also has an additional sensor in the exhaust stream to detect the moisture level more accurately for better drying results.

DRYER

Models DLE7177WM and DLG7188WM use the LED indicator panel instead of the newer LCD. The only difference is the type of display. The dryers function identically. The main and display PCB (Printed Circuit Board) will carry a different part number depending upon the type of display. **Always** order parts by model number and serial number to ensure receiving the correct parts.



The drying cycle is shown in the left window and the time remaining is shown in the right. Feature selections like DRY LEVEL and BEEPER volume are indicated by LEDs on the panel.

The DISCOVERY line of dryers feature enhanced sensor drying. In addition to the drying sensor in the tub near the filter, there is an additional sensor in the exhaust stream to ensure the correct level of dryness is determined, from damp dry to very dry. The dryer can also be set manually to dry at a particular heat level and for a specified time.

SAFETY

IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing skill and experience in electrical, electronic, and mechanical appliance repair. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING !

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

WHAT TO DO IF YOU SMELL GAS:

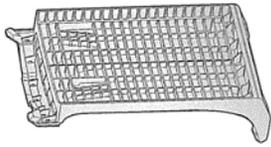
- Do not try to light a match, or cigarette, or turn on any gas or electrical appliance.
- Do not touch any electrical switches. Do not use any phone in your building.
- Clear the room, building or area of all occupants.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions carefully.
- If you cannot reach your gas supplier, call the fire department.

Check the local laws and regulations concerning the installation and connection of gas. In most localities, it is illegal to connect gas piping, re-jet or adjust burners, or repair gas-fired equipment unless you are licensed and certified so to do. It is the servicer's responsibility to comply with all such regulation.

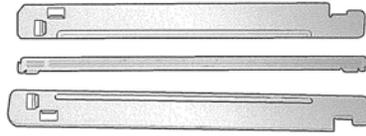
SPECIFICATIONS

ITEM		DLE7177WM/DLE8377WM DLG7188WM/DLG8388WM	DLE8377NM DLG8388NM	REMARK
Material & Finish	Color	Blue White	Navy Blue	
	Top Plate	Porcelain		
	Door Trim	Chromate		
POWER SUPPLY		120V/240V 60Hz (26A)		
ELECTRICITY CONSUMPTION	MOTOR	250 W (4.5A)		AC 120V
	HEATER	5400 W (22.5A)		AC 240V (ELECTRIC MODEL)
	LAMP	15 W (125mA)		AC 120V
	GAS VALVE	13 W (110mA) x 2		AC 120V (GAS MODEL)
CONTROL TYPE		Electronic		
DRUM CAPACITY		7.3 cu.ft.		
Weight (lbs) - Net/Gross		124/144		
No. of Programs		9		
No. of Dry Options		3		
No. of Temperature Controls		5		
No. of Dry Levels		5		
Sound levels		High/Low/Off		
Sensor	Moisture	Available		Electrode sensor
	Temperature	Available		Thermistor
Reversible Door		Available		
Drum		Stainless Steel		
Dryer Rack		Available		
Child Lock		Available		
Interior Light		Available		
Product (WxHxD)		27" x 42 3/4" x 28 3/8"		
Packing (WxHxD)		29 1/2" x 44 3/4" x 30 3/4"		

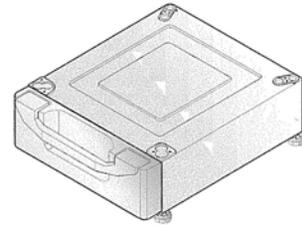
ACCESSORIES



DRYING RACK



STACKING KIT



PEDESTAL

The DRYING RACK is used to dry items that should not be tumbled, like sweaters, tennis shoes, etc. It should be removed and stored when not in use. The rack is included with the dryer. (See installation procedure, page xx.)

The STACKING KIT is used to stack a dryer on top of a matching washer. (NEVER put a washer on top of a dryer!) The stacking kit should not be used in situation where there is the possibility of excessive vibration and movement of the washer, such as in a mobile home or an upper floor of a frame structure. The stacking kit is available as an optional purchase. (See installation procedure, page 11.)

The PEDESTAL can be used under either the washer or the dryer. It is possible to stack a washer and dryer on a pedestal, but the dryer controls may be difficult to reach and the possibility of vibration and movement is greater. The pedestal is available as an optional purchase. (See installation procedure, page 13.) Pedestals are available in heights of 7¼" and 13".

INSTALLATION (RACK)



It's simple!

Open the dryer door.

Put the rack in place.

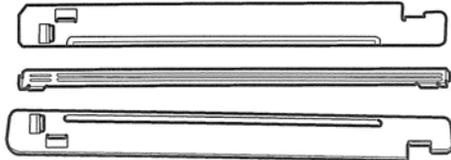
Select **RACK DRY** (2nd button on right)

Press **START**.

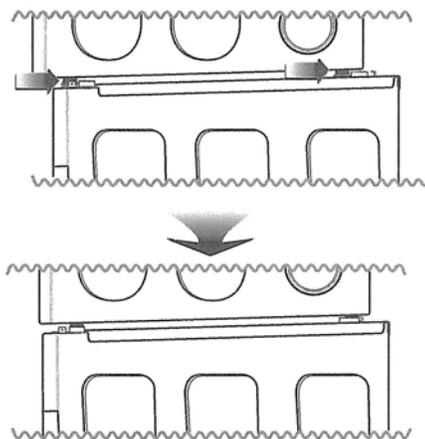
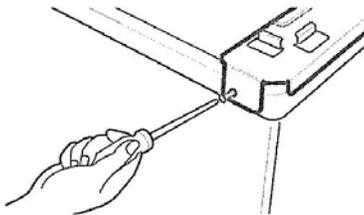
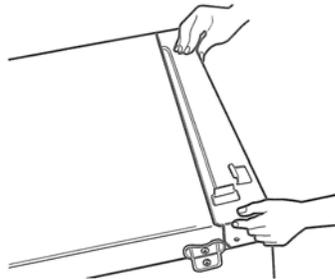
Be sure the front of the rack is properly situated in the notches on either side of the filter. The back should rest on the drum and allow the drum to rotate.

INSTALLATION (Stacking Kit)

WARNING! Do not attempt this alone! At least two people are required to lift the dryer and place it properly on top of the washer. Failure to observe this warning could result in serious physical injury and damage to the appliances.



STACKING KIT



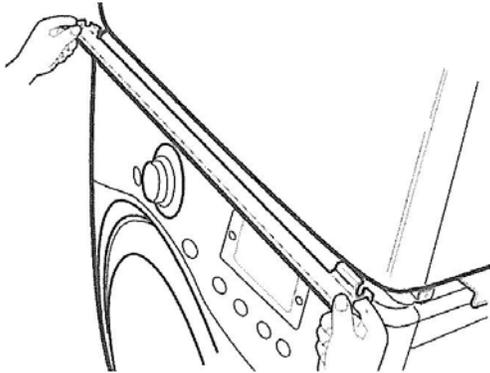
1. Place the washer on a solid, even floor. If you plan to use a pedestal, install it now before going any further.
2. Peel the protective paper from the adhesive tape on the side bracket.
3. Fit the side bracket firmly to the top plate using the adhesive tape, as shown in the drawing.
4. Secure the bracket to the top plate using a screw, as shown.

Repeat steps 2, 3, and 4 for the other side.
5. Level the dryer on a firm solid floor and lock down the adjusters before placing it on top of the washer. (See page xx.)

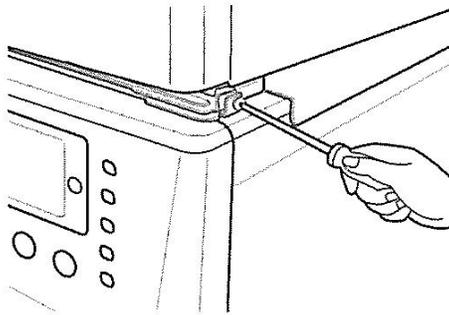
Lift the dryer on top of the washer it toward the front of the washer, as shown.

Slide the dryer all the way back to the stop on the rail.

INSTALLATION (Stacking Kit) continued



6. Install the front rail of the stacking kit. Push the front rail back against the stops on the side brackets.

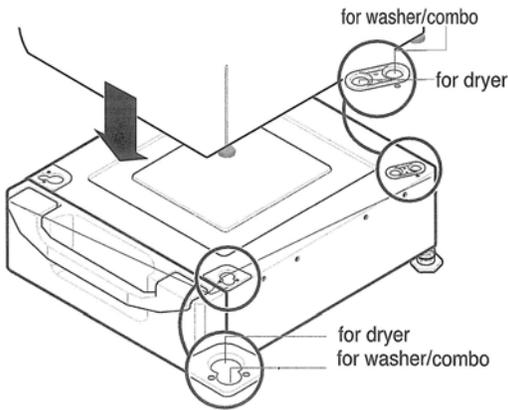
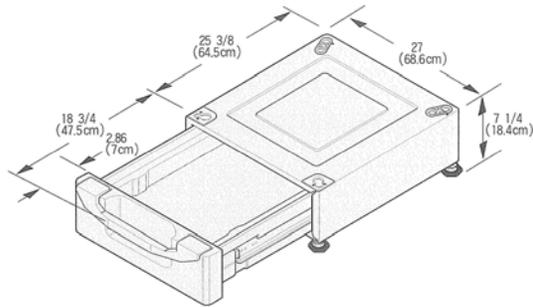


7. Insert a screw to attach the front rail to the side bracket.

Repeat step 7 for the other side.

INSTALLATION (Pedestal)

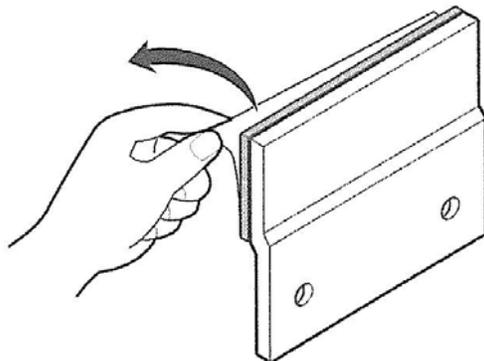
For 27" Pedestals
(Washer, Dryer, and Combo)



REAR



FRONT



1. Remove the pedestal, installation hardware, and instructions from the shipping container.

2. Level the pedestal on a solid, flat, level floor. Lock down the rear adjusters, but leave the front ones free for now.

Set the dryer on the pedestal and level it. Level it and lock down all four adjusters on the dryer.

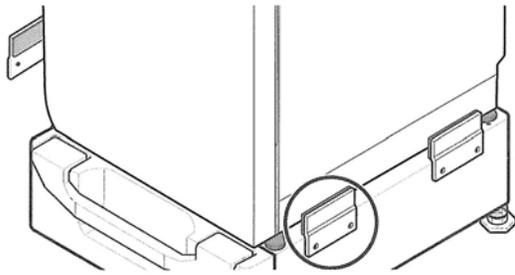
Note which holes are for the washer and which are for the dryer. If you are stacking the appliances, the washer should be on the bottom.

3. Remove the protective paper from the adhesive surface of the bracket.

Be particularly careful, because when this adhesive makes contact, there is no adjustment possible.

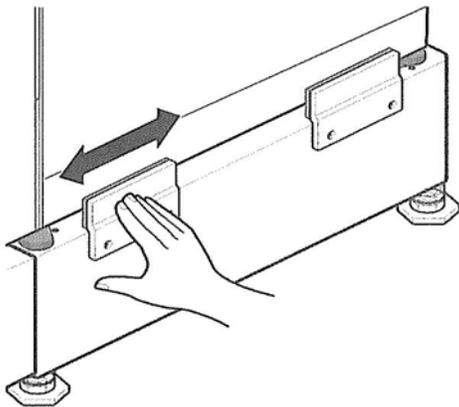
NOTE: Some kits include two sets of brackets (curved for the dryer and flat (shown) for the washer.) Use the correct bracket for your application. (See next page.)

INSTALLATION (Pedestal) continued

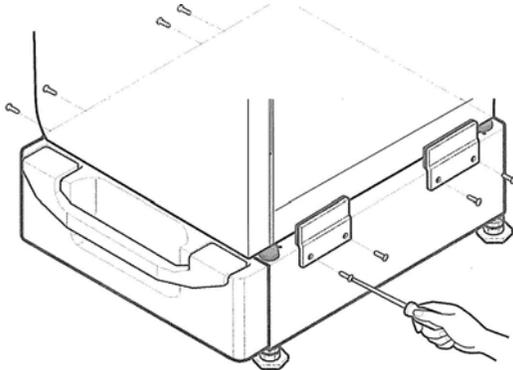


4. Holding the adhesive part of the bracket away from the dryer, insert the screws and get them started.

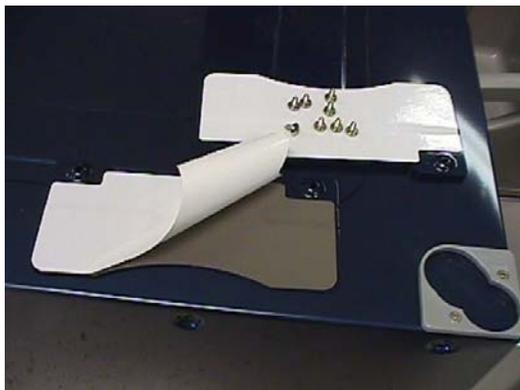
Press the bracket onto the dryer and tighten the screws.



5. Press the brackets onto the sides of the dryer and rub the brackets from side to side to ensure the total adhesive area is attached completely.



6. Tighten all the screws securely.
7. Lower each leg of the dryer one-fourth turn with the adjusting wrench to put a little pressure between the dryer and pedestal to prevent any motion and rattling.
8. Push the dryer into place.
9. Check the level and adjust the front legs of the pedestal as necessary. Then lock down the adjusters.



The pedestal kit includes the mounting plates (with adhesive covered by paper) and the screws to attach the plates. Remember, some pedestal kits come with two sets of brackets. The flat tops are for washers; the curved tops (shown) are for dryers. Use the correct brackets for your application.

INSTALLATION (Modem and Monitor)

REMOTE MONITOR

The monitor plugs in to any 110 Volt outlet in the home. It receives its data signal via the power lines.



1. Be sure the dryer is unplugged.

Remove the modem cover.

Save the cover for future use; in the event you must remove the modem, you can replace the cover.



2. Attach the modem to the socket with the screws provided.

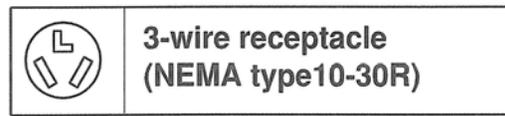
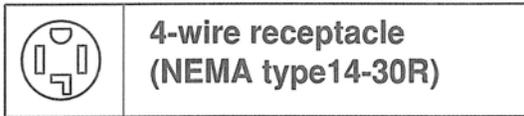


3. Plug the monitor's power cord in an outlet where you can observe it easily. Use the stand or the wall mount bracket.
4. Press and hold the button until the display shows **SET**.

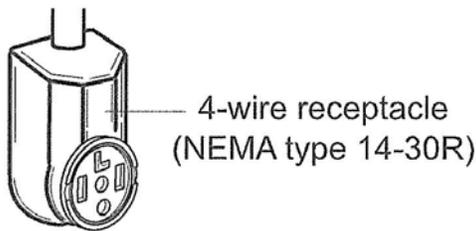
ELECTRICAL CONNECTION (Electric Dryer Only)

PIGTAIL INSTALLATION

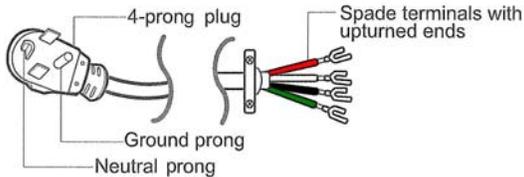
Install the appropriate power cord for the outlet available. Grounding through the neutral conductor is prohibited in new branch-circuits, mobile homes, recreational vehicles, and where prohibited by local code.



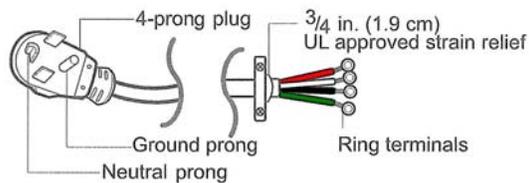
4-wire Connection



The 4-wire receptacle looks like this.

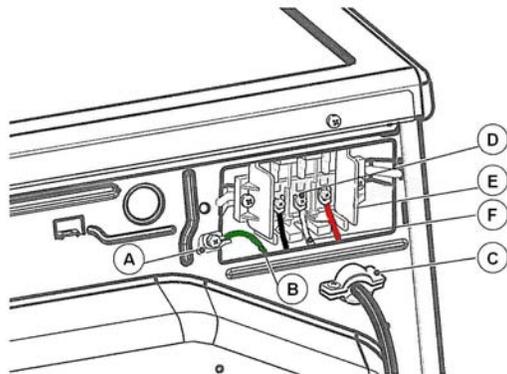


Power cord with spade terminals.



Power cord with ring terminals.

Install a strain relief on the power cord.

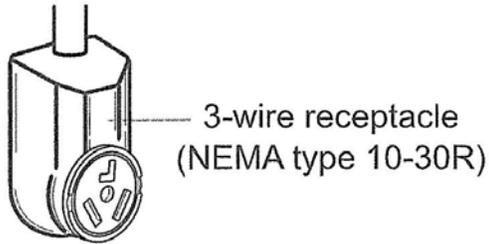


Then connect the terminals to the terminal block, matching the wire colors.

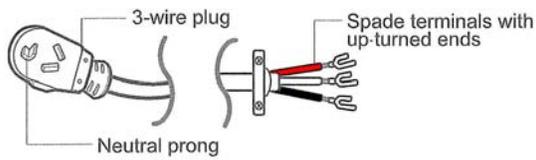
- A. Ground screw on chassis
- B. Green wire from power cord
- C. Strain relief
- D. Neutral screw on terminal block
- E. Terminal block
- F. Neutral wire from power cord

ELECTRICAL CONNECTION (Electric Dryer Only) continued

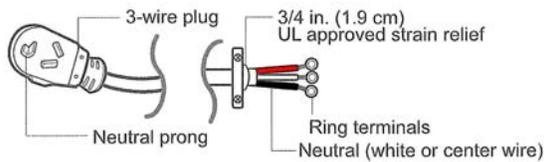
3-wire Connection



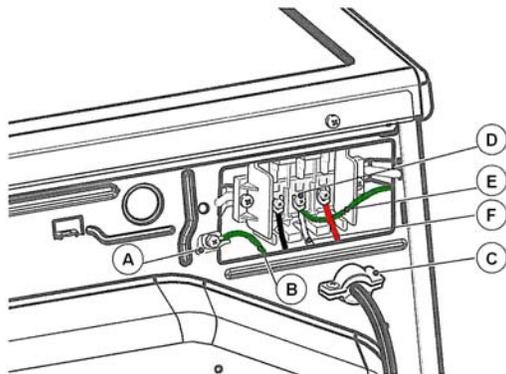
The 3-wire receptacle looks like this.



Power cord with spade terminals.



Power cord with ring terminals.



Install a strain relief on the power cord.

Then connect the terminals to the terminal block, matching the wire colors. Add a wire to connect the chassis ground to neutral.

- A. Ground screw on chassis
- B. Green wire from power cord
- C. Strain relief
- D. Neutral screw on terminal block
- E. Ground-to-neutral connection
- F. Neutral wire from power cord

ELECTRICAL CONNECTION (Electric Dryer Only) continued



Be sure to tighten all screws firmly, but do not strip them or distort the contact area.

Be sure to install a strain relief on the power cord.



Replace the terminal block cover by inserting the tabs into the slots and letting them slide down to engage.

Fold it over to the back of the dryer so it covers the access to the terminal block. Be sure no wires are exposed or could touch any metal surface.



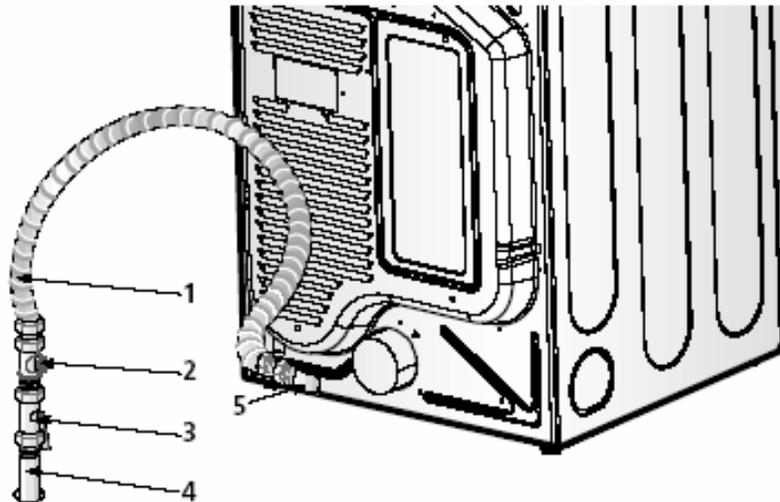
Secure the cover with a screw.

GAS CONNECTION (Gas Dryer Only)

CAUTION! (This warning applies to both natural gas and propane.)

Gas is both flammable and explosive. Use caution when working with gas.

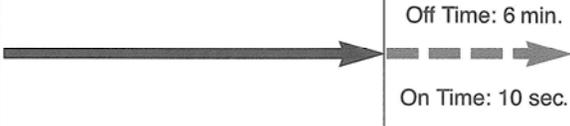
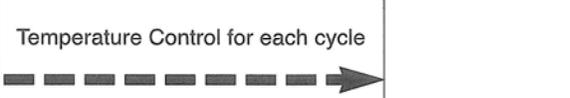
In most locations, installing and connecting gas is restricted to properly trained and licensed persons.



Always inspect joints and connections for a leak with a soapy solution. If you see bubbles, turn the gas off and open a window. If you smell gas, turn off the main valve and open a window.

The gas dryer requires a 110 Volt, single-outlet, dedicated circuit. The cord is installed at the factory and no user-intervention is required.

DRYER CYCLE CHART

Cycle		Default			Conditions of operation and termination				
		Temp- erature	Dry Level	Display time	Drying		Cooling		Wrinkle care
					Electro- sensor	Temp- Control	Default time	Temp- Control**	Time
Sensor Dry*	HEAVY DUTY	HIGH	(Normal)	54 min.	Saturation	68±4°C	(5 min)	47±5°C	3 Hr.
	COTTON/ TOWELS	MID HIGH	(Normal)	55 min.	Saturation	66±4°C	(5 min)	47±5°C	
	NORMAL	MEDIUM	(Normal)	41 min.	Saturation	60±4°C	(5 min)	47±5°C	
	PERM PRESS	LOW	(Normal)	36 min.	Saturation	52±3°C	(5 min)	47±5°C	
	DELICATES	LOW	(Normal)	32 min.	Saturation	52±3°C	(5 min)	38±5°C	
	ULTRA DELICATE	ULTRA LOW	(Normal)	34 min.	Saturation	45±3°C	(5 min)	38±5°C	
Manual Dry**	SPEED DRY	(HIGH)	-	25 min.	Saturation	(70±5°C)	(5 min)	(47±5°C)	3 Hr.
	FRESHEN UP	(MID HIGH)	-	20 min.	Saturation	(66±5°C)	(5 min)	(47±5°C)	
	AIR DRY	-	-	30 min.	Saturation	No heater	N/A	N/A	
Load		Motor							
				Heater					

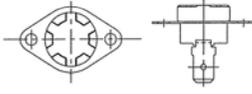
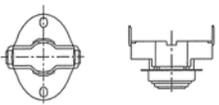
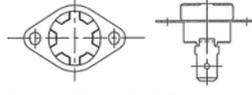
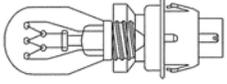
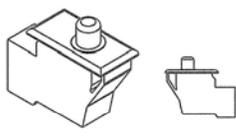
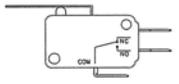
* SENSOR DRY The dryness level is set by the customer.

** MANUAL DRY The temperature is set by the customer.

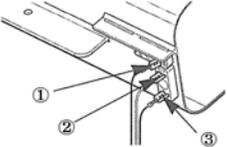
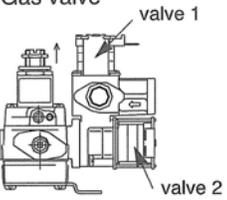
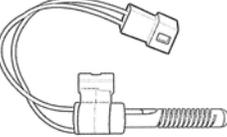
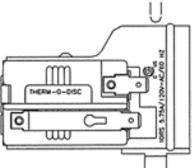
The default settings can be overridden by the customer.

COMPONENT TESTING PROCEDURES

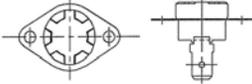
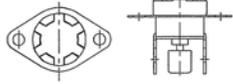
Testing the various components of the dryer is relatively simple. Most can be checked without major disassembly.

Component	Test Procedure	Check result	Remark
<p>1. Thermal cut off</p>  <p>• Check Top Marking: N130</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at 266 ± 12°F (130 ± 7°C)</p> <p>② Auto reset 31°F (35°C)</p> <p>Same shape as Outlet Thermostat.</p>	<p>If thermal fuse is open must be replaced</p> <p>① Resistance value ≅ ∞</p> <p>② Continuity (250°F ↓) < 1Ω</p>	<p>• Heater case - Safety</p> <p>• Electric type</p>
<p>2. Hi limit Thermostat (Auto reset)</p> 	<p>Measure resistance of terminal to terminal</p> <p>① Open at 257 ± 9°F (125 ± 5°C)</p> <p>② Close at 221 ± 9°F (105 ± 5°C)</p>	<p>① Resistance value ≅ ∞</p> <p>② Resistance value < 5Ω</p>	<p>• Heater case - Hi limit</p> <p>• Electric type</p>
<p>3. Outlet Thermostat (Auto reset)</p>  <p>• Check Top Marking: N85</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at 185 ± 9°F (85 ± 5°C)</p> <p>② Close at 149 ± 9°F (65 ± 5°C)</p> <p>Same shape as Thermal cut off.</p>	<p>① Resistance value ≅ ∞</p> <p>② Resistance value < 5Ω</p>	<p>• Blow housing - Safety</p> <p>• Electric type</p>
<p>4. Lamp holder</p> 	<p>Measure resistance of terminal to terminal</p>	<p>Resistance value: 80Ω ~ 100Ω</p>	
<p>5. Door switch</p> 	<p>Measure resistance of the following terminal</p> <p>1) Door switch knob: open</p> <p>① Terminal: COM - NC (1-3)</p> <p>② Terminal: COM - NO (1-2)</p> <p>2) Door switch push: push</p> <p>① Terminal: COM - NC (1-3)</p> <p>② Terminal: COM - NO (1-2)</p>	<p>① Resistance value < 1Ω</p> <p>② Resistance value ≅ ∞</p> <p>① Resistance value ≅ ∞</p> <p>② Resistance value < 1Ω</p>	<p>The state that Knob is pressed is opposite to Open condition.</p>
<p>6. Idler switch</p> 	<p>Measure resistance of the following terminal: COM - NC</p>	<p>1. lever open</p> <p>① Resistance value < 1Ω</p> <p>2. Lever push (close)</p> <p>② Resistance value ≅ ∞</p>	

COMPONENT TESTING PROCEDURES continued

Component	Test Procedure	Check result	Remark
7. Heater 	Measure resistance of the following terminal ① Terminal: 1 (COM) - 2 ② Terminal: 1 (COM) - 3 ③ Terminal: 2 - 3	① Resistance value: 10Ω ② Resistance value: 10Ω ③ Resistance value: 20Ω	• Electric type
8. Thermistor 	Measure resistance of terminal to terminal Temperature condition: 58°F ~ (10~40°C) 58°F ~ 104F (10~40°C)	Resistance value: 10Ω	• Heater case - Hi limit • Electric type
9. Motor			• See Page 13
10. Gas valve 	Measure resistance of the following terminal ① Valve 1 terminal ② Valve 2 terminal	① Resistance value: > 1.5 kΩ ② Resistance value: > 1.5~2.5 kΩ	• Gas type
11. Igniter 	Measure resistance of terminal to terminal	Resistance value: 100~800Ω	• Gas type
12. Flame Detect 	Measure resistance of terminal to terminal ① Open at 370°F (Maximum) ② Close at 320°F	① Resistance value ≅ ∞ ② Resistance value < 1Ω	• Gas type

COMPONENT TESTING PROCEDURES continued

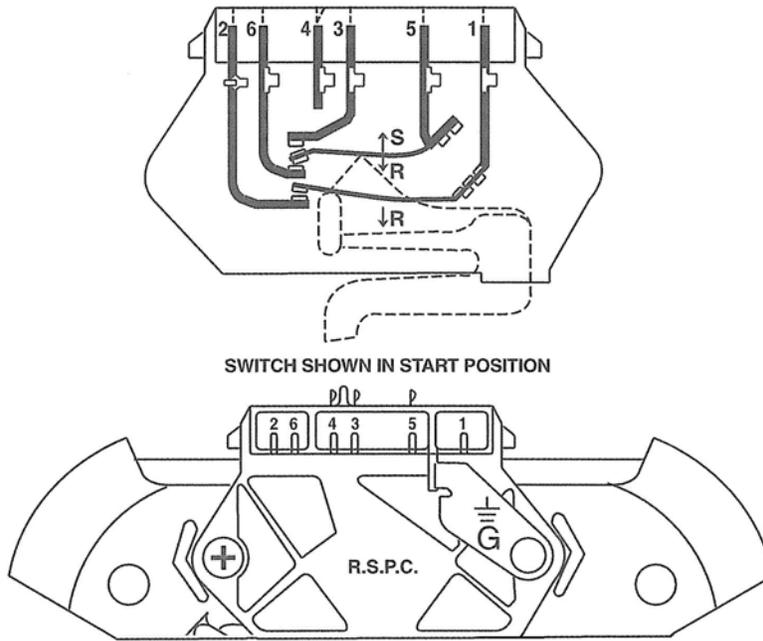
Component	Test Procedure	Check result	Remark
<p>13. Outlet Thermostat (Auto reset)</p>  <p>• Check Top Marking: N95</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at $203 \pm 7^{\circ}\text{F}$ ($95 \pm 5^{\circ}\text{C}$)</p> <p>② Close at $158 \pm 9^{\circ}\text{F}$ ($70 \pm 5^{\circ}\text{C}$)</p>	<p>① Resistance value $\approx \infty$</p> <p>② Continuity $< 1\Omega$</p>	<p>• Gas type</p> <p>• Gas funnel</p>
<p>14. Outlet Thermostat (Manual reset)</p>  <p>• Check Top Marking: N100</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at $212 \pm 12^{\circ}\text{F}$ ($100 \pm 7^{\circ}\text{C}$)</p> <p>② Manual reset</p>	<p>If thermal fuse is open must be replaced</p> <p>① Resistance value $\approx \infty$</p> <p>② Continuity $< 1\Omega$</p>	<p>• Gas type</p> <p>• Gas funnel</p>
<p>15. Semi-Conductor</p> 	<p>Measure resistance of terminal to terminal</p> <p>① Red-White : $300 \pm 20 \Omega$</p> <p>② White-Black : $300 \pm 20 \Omega$</p>	<p>① Resistance value $\approx \infty$</p> <p>② Continuity $< 1\Omega$</p>	<p>• Elect type</p> <p>• Gas type</p>

MOTOR DIAGRAM and SCHEMATIC

To check the motor, turn the power off and allow the capacitor to discharge. The centrifugal switch serves as a safety device to turn off the fuel (gas or electricity) to the heater if the motor fails to rotate.

Terminal N ^o		①	②	③	④	⑤	⑥	Remark
Mode	Resistance							
Motor STOP	2 ~ 3Ω				● — ●			Motor
	≅ ∞	●	●					Heater (Electric Models)
	≅ ∞			●			●	Gas Valve (Gas Models)
Motor RUN	3 ~ 5Ω				● — ●			Motor
	< 1Ω	● — ●						Heater (Electric Models)
	< 1Ω			● — ●				Gas Valve (Gas Models)

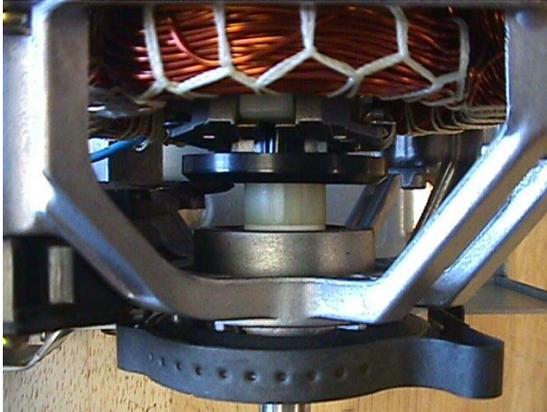
— Open
 ——— Close



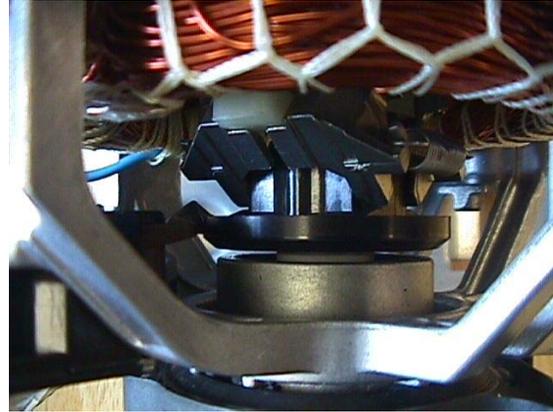
SAFETY SWITCHES

The centrifugal switch slides back and forth on the motor's shaft to operate the contacts as shown in the previous diagram. This switch provides safety in the event the motor fails. When the motor is running, centrifugal force causes the weight (black wing in photo) to slide back toward the motor windings. This motion allows electricity to operate the heater (electric element or gas valve). If the motor stops, the weight slides forward and turns the power off.

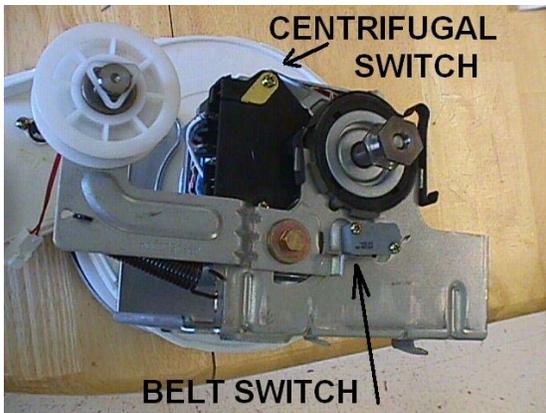
RUN POSITION



STOP POSITION



There is an additional safety in the form of a belt switch that shuts off power to the electric motor if the belt breaks. Belt tension holds the switch closed. If the belt breaks, the switch opens and power to the motor is cut. When the motor stops, the centrifugal switch functions as a safety device to turn off the fuel (gas or electricity).

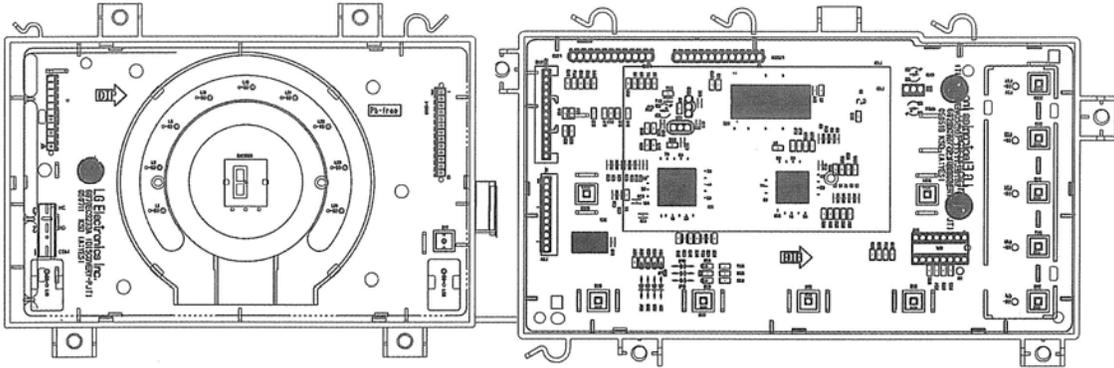


The centrifugal switch includes a multi-pin connector (shown).

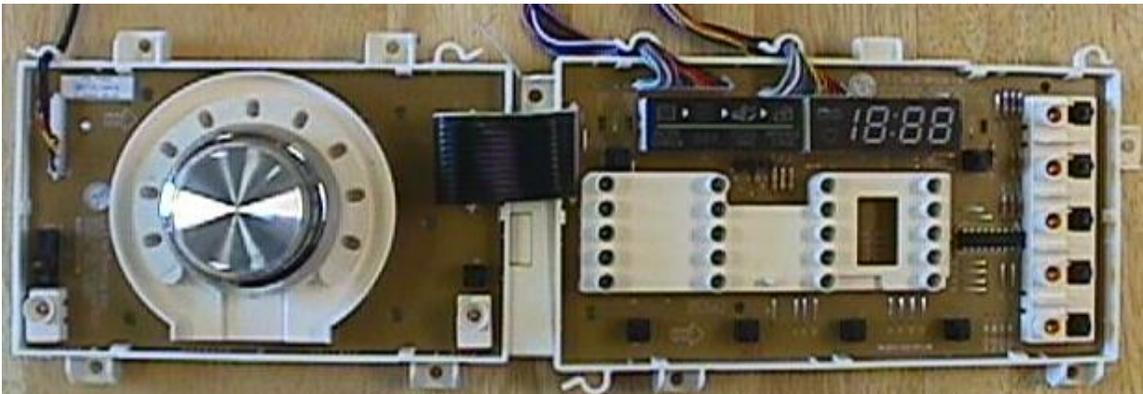
The belt switch is simple. If the belt breaks, the spring pulls the lever down and it presses the switch.

DISPLAY PWB

The display board is actually two boards connected by a ribbon cable. One board holds the selector knob and cycle indicator LEDs. The other holds the LCD display and adjustment buttons to override the pre-set cycle selections.



The DLE7177WM board is shown below. Other models vary slightly.

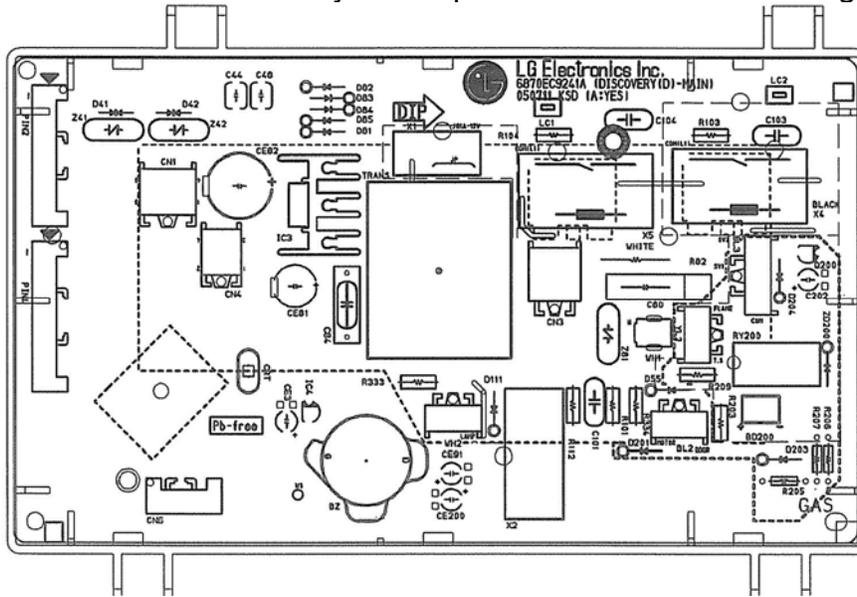


The gas and electric models have a different display board.

MODEL	OPTION PART			LED DISPLAY	PART NO
	DP 1	DP 3	OP 5		
DLE8377WM DLE8377NM	X	X	X	ELECTRIC	6871EL1011A
DLG8388WM DLG8388NM	○	X	X	GAS	6871EL1011B

MAIN PWB

The main board includes the relays that operate electric heaters and gas valves.



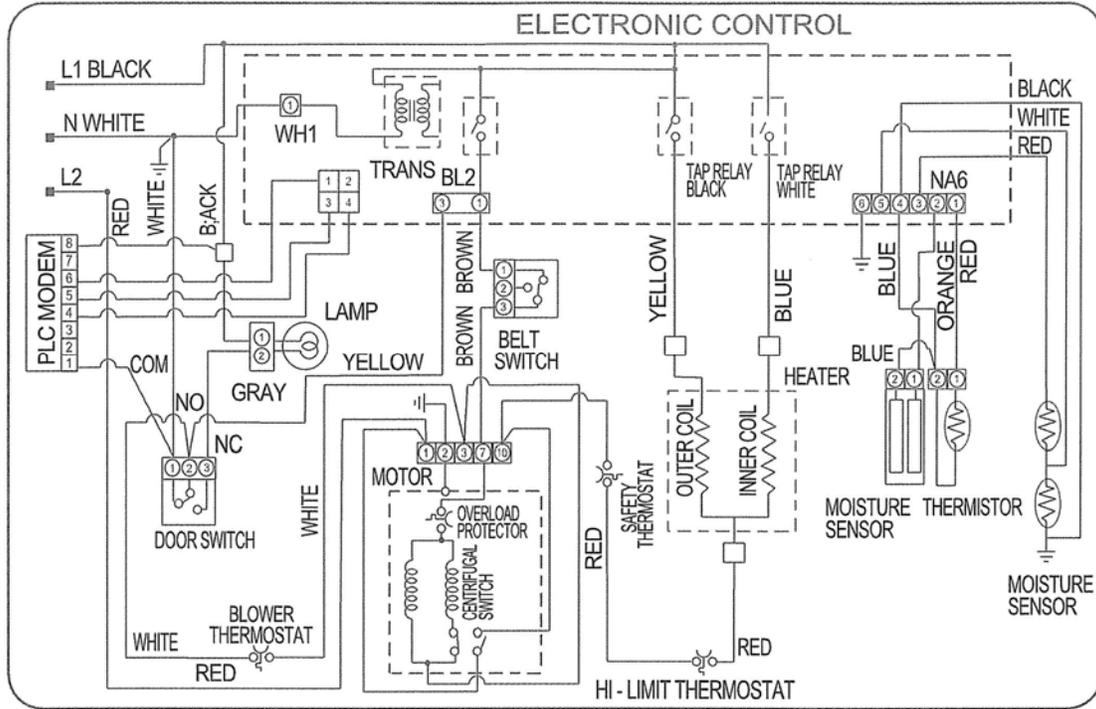
The DLE7177WM board is shown below. Other models vary slightly.



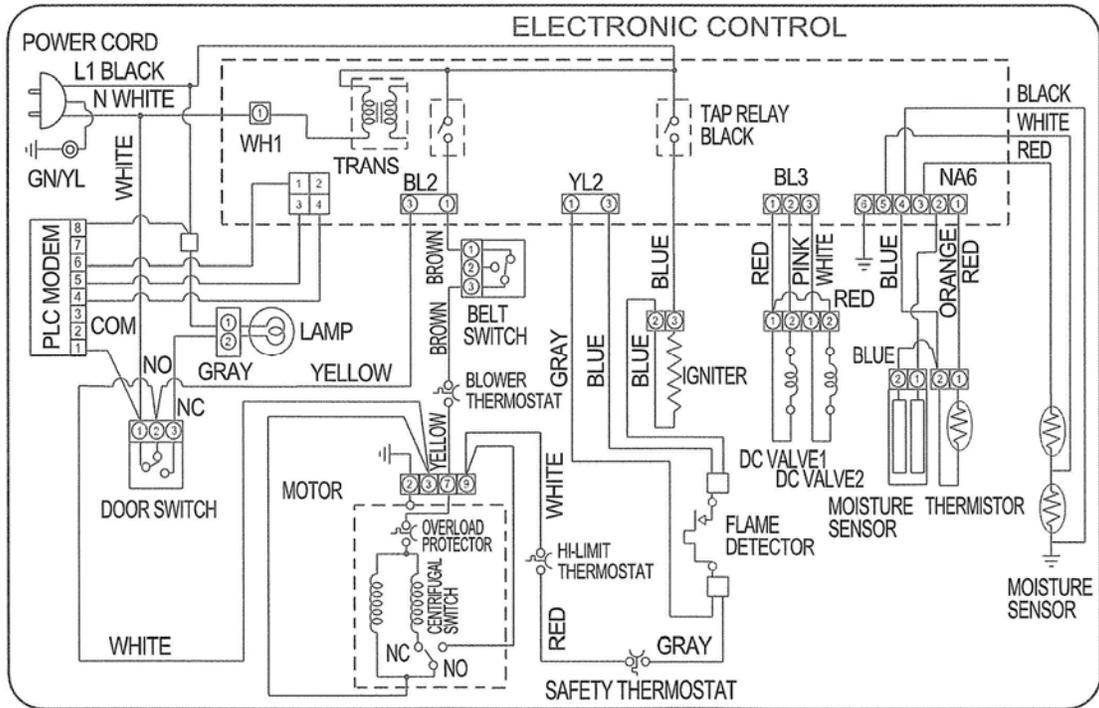
The gas and electric models have a different main board.

MODEL	a RLY200	b x5	c TRANS	MICOM	PART N ^o
DLE8377WM DLE8377NM	O	O	6170EC1006F	X	6871EL1013C
DLG8388WM DLG8388NM	X	X	6170EC1006F	X	6871EL1013D

Electric Dryer Wiring Diagram



Gas Dryer Wiring Diagram



DIAGNOSTIC TEST MODE

The diagnostic test mode is for service testing only. Do not activate the heater manually with the door open or it will trip the thermostat attached to the heater.

1. Dryer must be in standby mode. (Plugged in, turned off)
2. Press and hold MORE TIME and LESS TIME, then press power.
3. Press START/PAUSE to advance to the next test.
4. Unplug the dryer for one minute after using the diagnostic mode.

Press the START/PAUSE button	CHECKING ACTION	DISPLAY	CHECKING POINT	REMARK
None	Electric control & Temperature sensor	LQC TEST	Won't power up Defective LED or LCD	See test 1 Display: See page
		tE1	Thermistor open	See test 2
		tE2	Thermistor closed	
Once	Motor	70 ~ 239 Measured Moisture Value.	Motor runs	See test 3
			Displays Moisture Sensor Operation: If moisture sensor is contacted with damp cloth. The display number is below 180, in normal condition.	See test 4
Twice	<ul style="list-style-type: none"> ■ ELECTRIC TYPE Motor + Heater 1 (2700W) ■ GAS TYPE Motor + Valve 	Current Temp.	<ul style="list-style-type: none"> ■ ELECTRIC TYPE: Heater runs ■ GAS TYPE: GAS Valve runs (Display the Temperature of Inside drum.) 	Gas valve See test 7
3 times	<ul style="list-style-type: none"> ■ ELECTRIC TYPE Motor + Heater 1 +Heater 2 (5400W) ■ GAS TYPE Motor+Valve 	Current Temp. (5 ~ 70)		
4 times	Motor, Heater	50~230 Measured "SE"(Error Display)	Motor, Heater Off Semi-conductor	See test 8
5 times	Control Off			Auto Off
During check, If the door is open.	Motor & Heater Off + Lamp On + Buzzer beeps seven times	"dE" or "Error" (THE DOOR IS OPEN.PLEASE CLOSE THE DOOR COMPLETELY)	Door switch	See test 6
			Lamp	
During check, If the door is closed.	Motor on & Heater Off + Lamp Off	70 ~ 239	<ul style="list-style-type: none"> • Press Start button 1 time and then open the door. Proceed again with the step 1 (by pressing start 1 time), step 2 (by pressing start 2 times), step 3 (by pressing start 3 times) and step 4 (by pressing start 4 times) in sequence. • Press Start 2 times and then open the door. Proceed again from the step 1 all the way to the step 4. • Press Start 3 times and then open the door Proceed with the step 1 and skip the step 2 and press step 3 twice and finish with step 4 by making sure the all the electric devices shut off in the end. 	

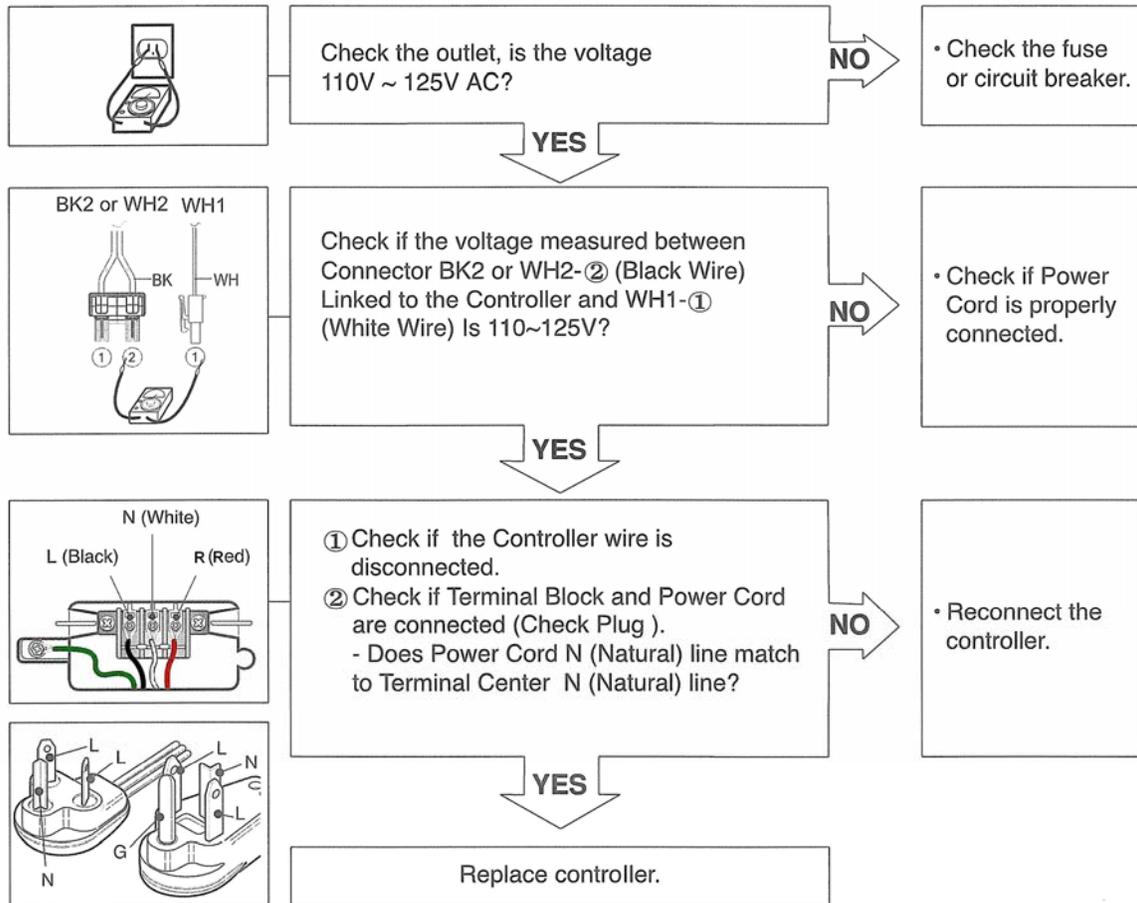
DIAGNOSTIC TEST PROCEDURES

The following pages will assist in troubleshooting and diagnosing issues with the dryer. Each test will list the appropriate precautionary measures along with symptoms and the conditions under which the testing should be performed.

TEST 1 – 120 V AC ELECTRICAL SUPPLY

WARNING!
SYMPTOM!
CONDITION!

Use insulated gloves to avoid electrical shock.
No power, display off.
Power on to dryer, controller connected.

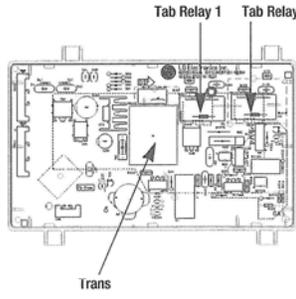


continued on next page

DRYER

WARNING! Use insulated gloves to avoid electrical shock.
SYMPTOM! Check the TAB RELAY connections.
CONDITION! Power on to dryer, controller connected.

POWER CONNECTION



Connection of the Tab Relay with Heater (Elec)

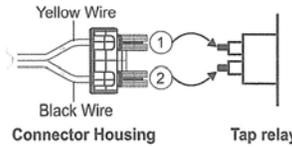
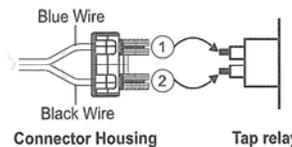
	Tab Relay 1	Tab Relay 2	Heater 1	Heater 2	Remark
High Mid High Medium	on	on	on	on	Temperature Control below $68 \pm 4^\circ\text{C}$. Turn on Heater 1 and Heater 2.
Low Extra Low	on	off	on	off	Temperature Control below $52 \pm 4^\circ\text{C}$. Only Turn on Heater 1.

Connection of the Tab Relay with Burner (Gas)

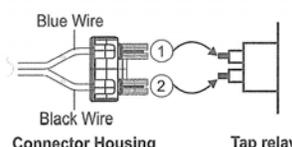
	Tab Relay 1	Burner	Remark
High Mid High Medium	○	○	Temperature Control below $70 \pm 4^\circ\text{C}$. Turn on Burner
Low Extra Low	○	○	Temperature Control below $47 \pm 4^\circ\text{C}$. Turn on Burner

PCB ASSEMBLY LAYOUT

CONNECTION STATUS (Electric)

	Color	Connection		Remark
		Harness	PCB	
Connector Housing	Black			Check the matching color between Harness wire and tab relay. (Black housing – black tab relay)
	White			Check the matching color between Harness wire and tab relay. (White housing – white tab relay)

CONNECTION STATUS (Electric)

	Color	Harness	PCB	Remark
Connector Housing	Black			Check the matching color between Harness wire and tab relay. (Black housing – black tab relay)

DRYER

If the power connection is reversed, the dryer will not operate and components can be damaged.

CONNECTION STATUS REVERSED (Incorrect) (Electric)

Items	Case	Heater 1 Operation (black)	Heater 2 Operation (White)	PCB condition Of operation
1. Black and White Housing	Wire ①, ② CROSS	Off	Off	Power Off
2. Black Housing	Wire ①, ② CROSS	Off	Off	Power Off
3. White Housing	Wire ①, ② CROSS	Normal	Normal	Power On
4. Black and White Housing	Housing CROSS	Heater 2	Heater 1	Power On
5. Black and White Housing	Housing and Wire ①, ② CROSS	Off	Off	Power Off

CONNECTION STATUS REVERSED (Incorrect) (Gas)

Items	Case	Heater 1 Operation (black)	Heater 2 Operation (White)	PCB condition of operation
1. Black and White Housing	Wire ①, ② CROSS	Off	Off	Power Off

TEST 2 – Thermistor Test (Power Off)

WARNING!
SYMPTOM!

Use insulated gloves to avoid electrical shock.
tE1 and **tE2** error codes occur during the test.
 Heater does not turn off.
 Significant difference between actual and sensed temperature.

CONDITION!

Power off.

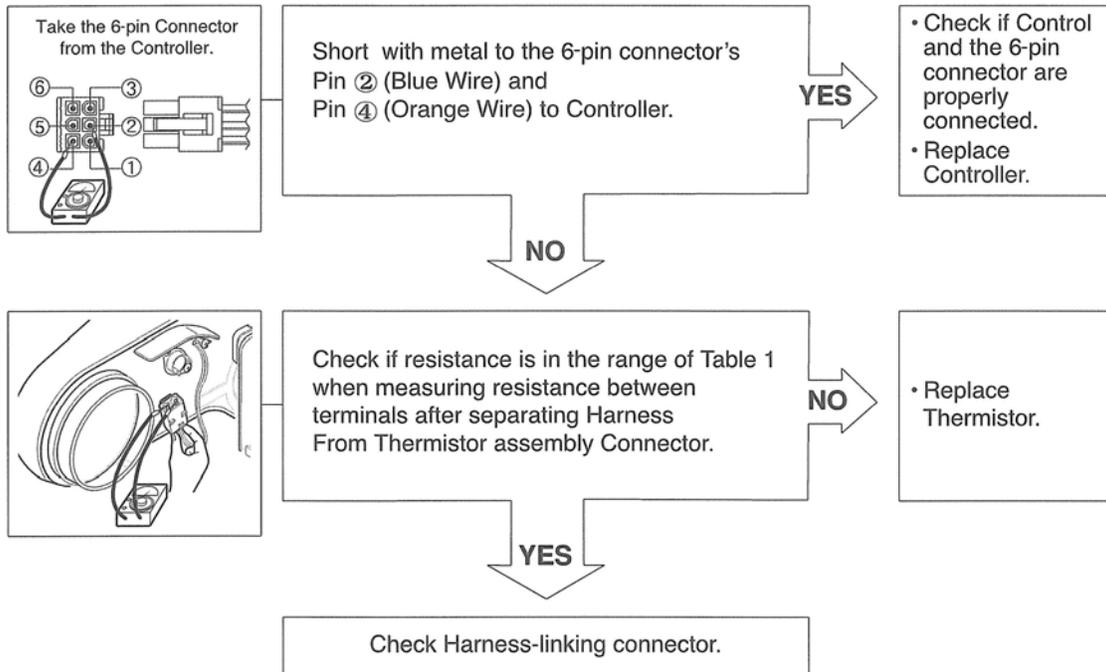


Table – Thermistor resistance/temperature

Air TEMP. °F (°C)	RES. kΩ	Air TEMP. °F (°C)	RES. kΩ	Air TEMP. °F (°C)	RES. kΩ
50°F (10°C)	18.0	90°F (32°C)	7.7	130°F (54°C)	2.9
60°F (16°C)	14.2	100°F (38°C)	6.2	140°F (60°C)	3.0
70°F (21°C)	11.7	110°F (43°C)	5.2	150°F (66°C)	2.5
80°F (27°C)	9.3	120°F (49°C)	4.3	160°F (71°C)	2.2

TEST 4 – Moisture Sensor Test

WARNING!
SYMPTOM!
CONDITION!

Discharge (see below) before measuring resistance.
 Dryness of clothing does not match set dry level.
 Turn power off, unplug dryer, and discharge by shorting line and neutral to ground at the end of the power cord.
 Measure resistance.

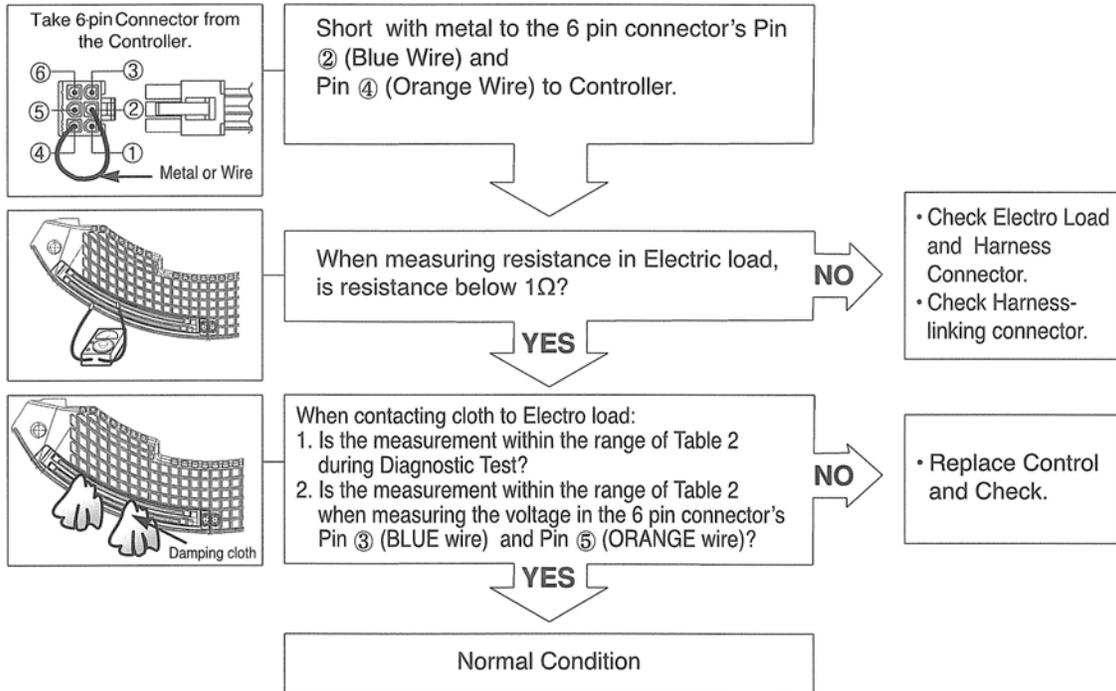


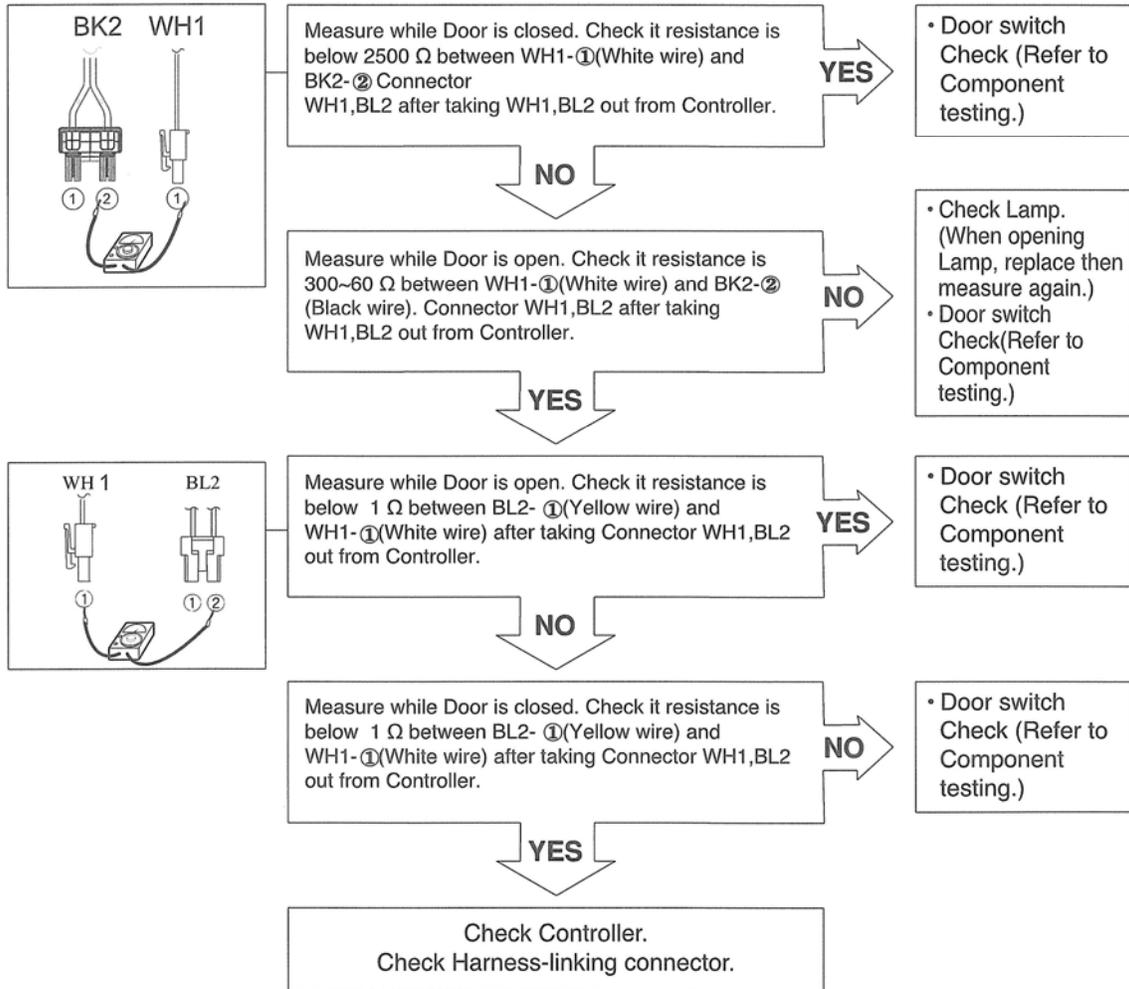
Table – IMC Ratio and Display Value (IMC = Initial Moisture Content)

IMC	Display Value	Voltage (DC) (between 6 Pin terminal 3,5)	Remark
70% ~ 40%	50 ~ 130	2.5V	Weight after removing from Washing Machine
40% ~ 20%	130 ~ 20	2.0V ~ 4.0V	Damp Dry
10% ~ Dried clothes	205 ~ 240	Over 4.0V	Completely-dried clothes

TEST 5 – Door Switch Test

WARNING!
SYMPTOM!
CONDITION!

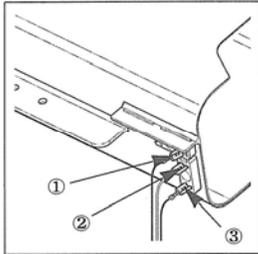
Discharge before measuring resistance.
 Door opening not sensed (dryer runs with door open).
 Turn dryer off, unplug, discharge, and measure resistance.



TEST 6 – Heater Switch (Electric Dryer Only)

WARNING!
SYMPTOM!
CONDITION!

Discharge before measuring resistance.
 Heater does not operate.
 Turn power off, unplug, discharge, and measure resistance.

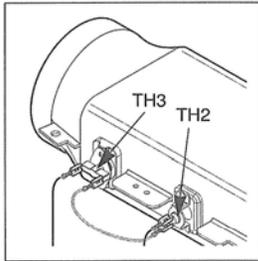


1. Is resistance between Heater terminal ① and ② below 18 ~ 22Ω?
2. Is resistance between Heater terminal ① and ③ below 18 ~ 22Ω?
3. Is resistance between Heater terminal ② and ③ below 9 ~ 11Ω?

NO

• Replace Heater.

YES



Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety Thermostat).

NO

• Replace TH2 (Safety Thermostat).

YES

Check if the value of measured resistance is below 1Ω between terminal TH3 (HI-Limit Thermostat).

NO

• Replace TH3 (HI-Limit Thermostat).

YES

Check Motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑩ at RUN condition.

NO

• Check Motor and replace it.

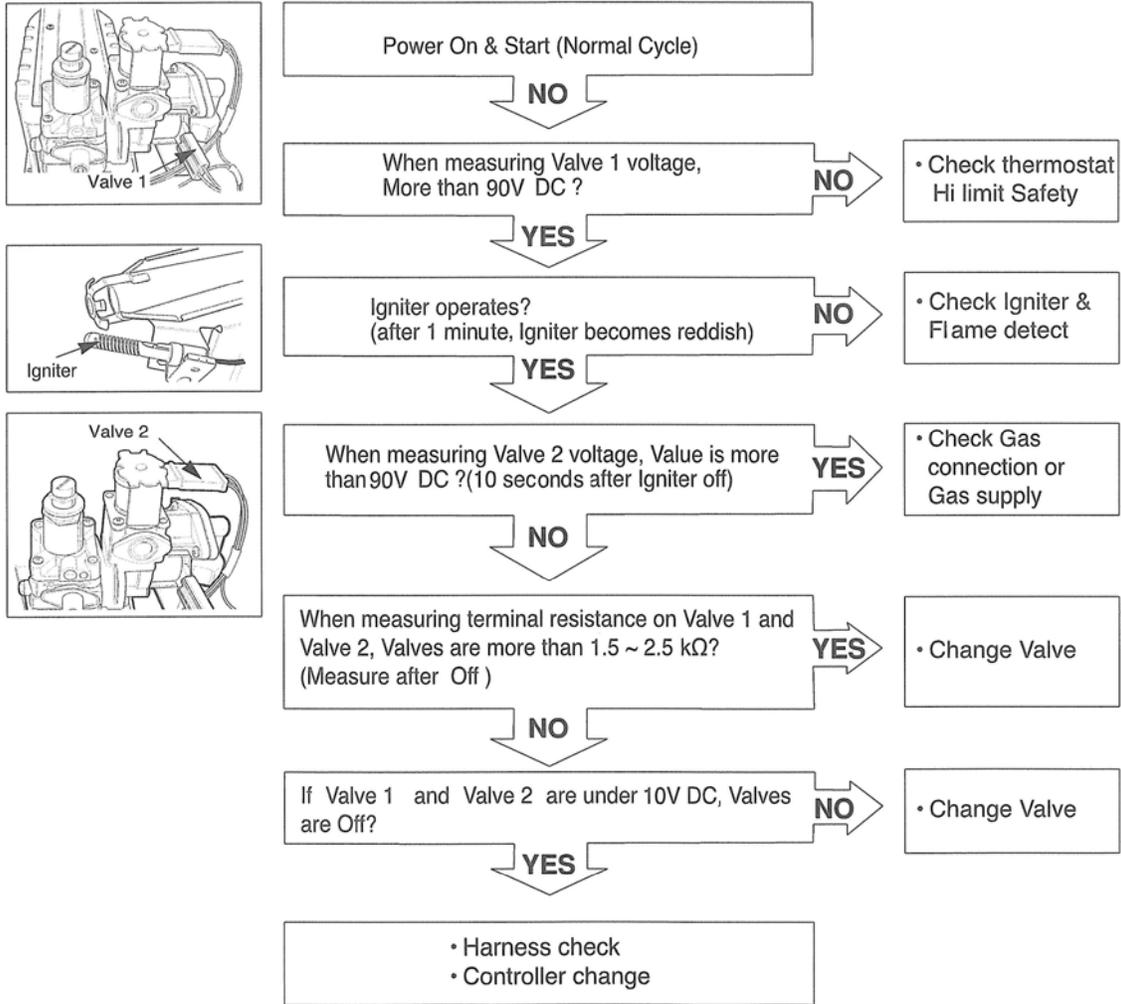
YES

Check Controller.
 Check Harness-linking Connector.

TEST 7 – Gas Valve Test (Gas Dryer Only)

WARNING!
SYMPTOM!
CONDITION!

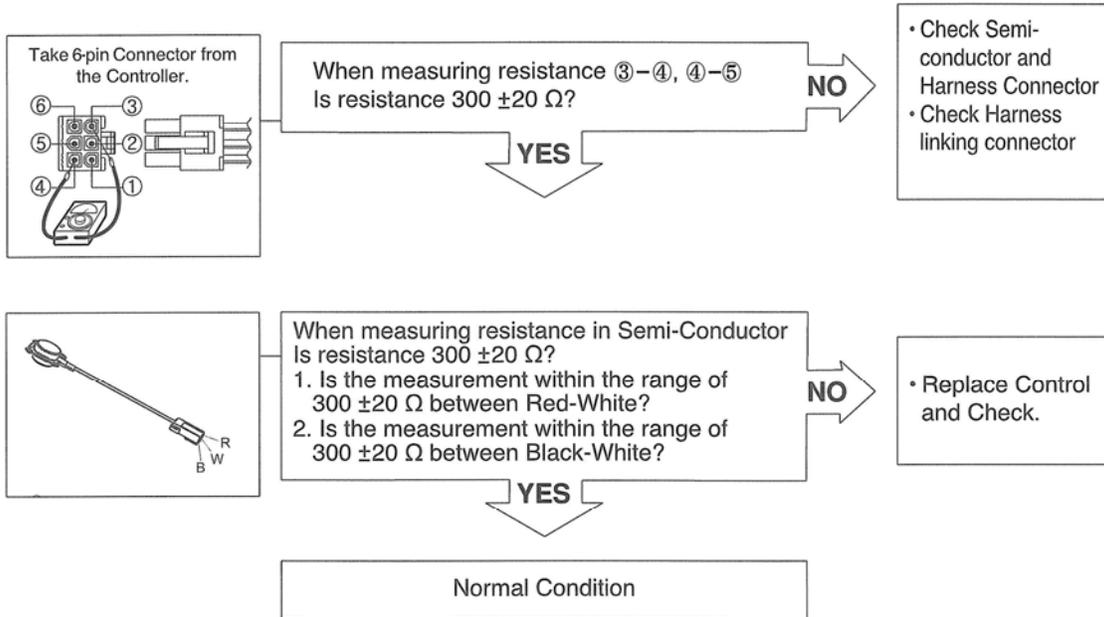
Use insulated gloves to avoid electrical shock.
 Heater does not operate.
 Power on.



TEST 8 – Semiconductor (Sensor) Test

WARNING!
SYMPTOM!
CONDITION!

Discharge before measuring resistance.
Resistance is not $300\Omega \pm 20\Omega$
Turn power off, unplug, discharge, and measure resistance.

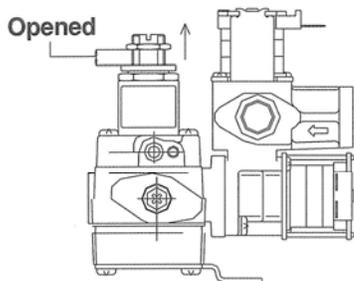


GAS CONVERSION (Natural to Propane)

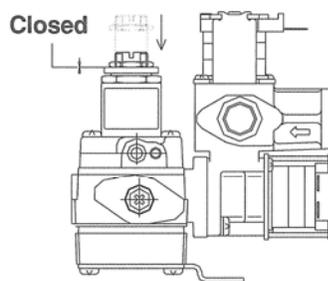
WARNING! Improper installation and/or adjustment of orifices and gas valves can result in fire, explosion, and suffocation. Installation and adjustment should be performed **ONLY** by a trained, licensed, and certified gasfitter.

NOTICE! The dryer is shipped from the factory equipped for natural gas.

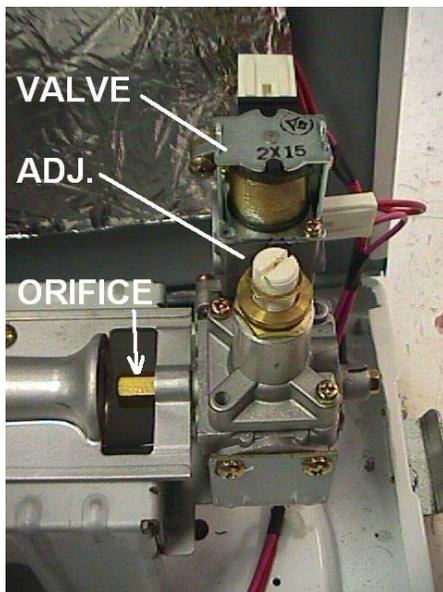
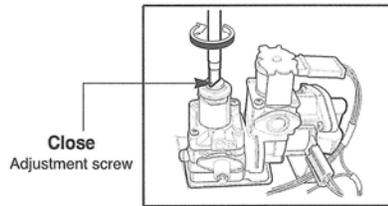
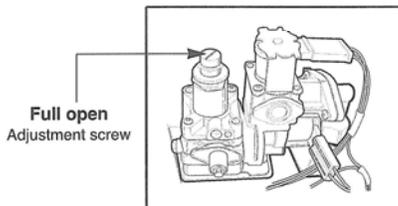
1. Close the adjustment screw.



NATURAL GAS SETTING



PROPANE GAS SETTING

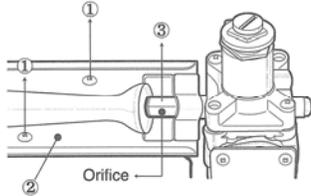


Notice there is a nut on the adjustment screw. This nut is secured to the thread with a sealing compound. The nut is pre-positioned to the place the valve would be properly adjusted for LP. It's purpose is to provide a shoulder for positioning the adjustment screw if the dryer is converted from natural gas to propane.

NOTE: The conversion should be performed by a licensed and certified gasfitter.

GAS CONVERSION (Natural to Propane) continued

2. Replace the orifice. (See photo, previous page.)



Gas type	Orifice P/No	Marking	Shape
Natural Gas	4948EL4001B	NCU	
Propane Gas	4948EL4002B	PCU	

You'll have to remove the top plate and front cover to change the orifice.

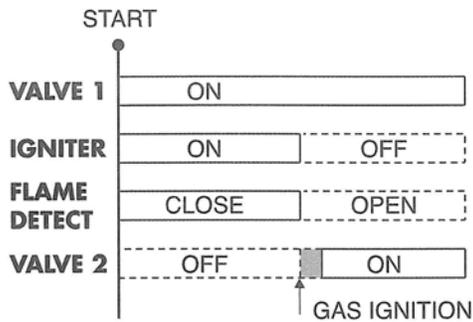
Installing the correct orifice is critical! This should be performed **ONLY** by trained, licensed, and certified service personnel.

3. The conversion kit includes a propane orifice, complete instructions for making the conversion, and a label indicating the conversion kit has been installed. All conversion work, including testing and adjusting, must be completed by a trained, licensed, and certified gasfitter.

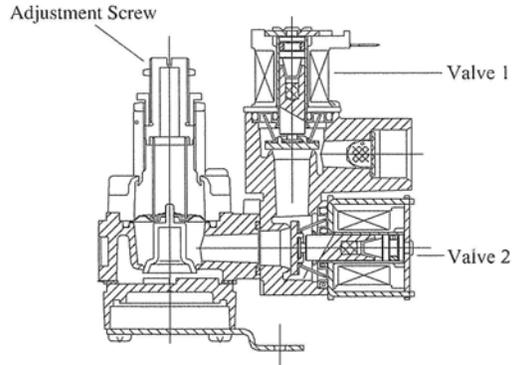
GAS VALVE OPERATION

The gas valve is a two-stage valve. When the ignition sequence begins, the igniter is turned on and valve one opens. When the igniter reaches 370° F (188° C), the igniter is turned off and valve two is opened. If the flame detector does not detect ignition, valve two is closed and the process is restarted. If ignition occurs as planned, the drying cycle will operate.

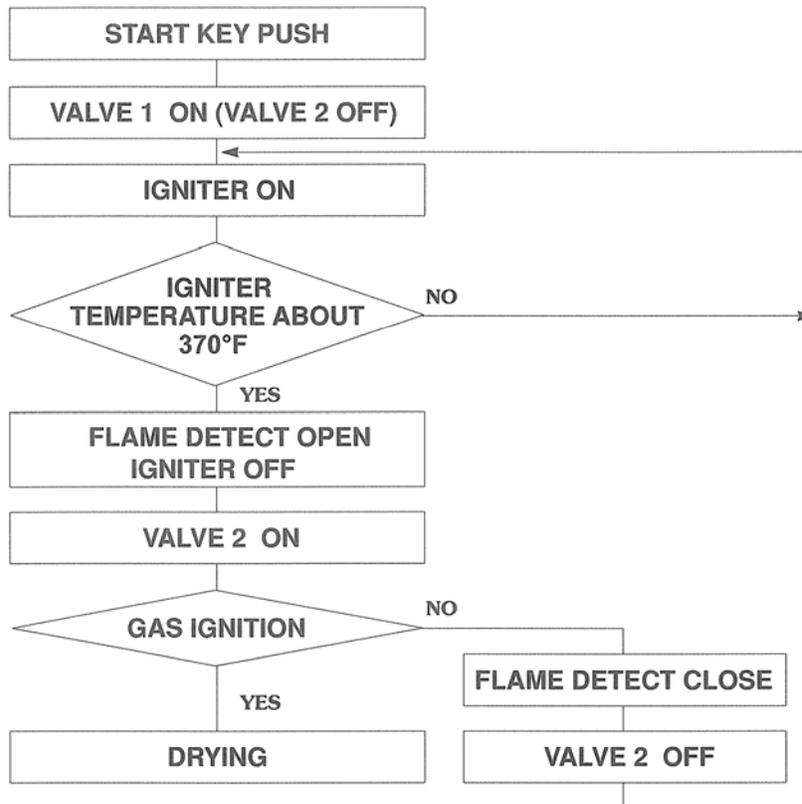
GAS IGNITION SEQUENCE



GAS VALVE CONSTRUCTION

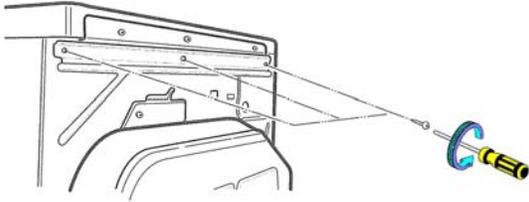


IGNITION FLOW CHART

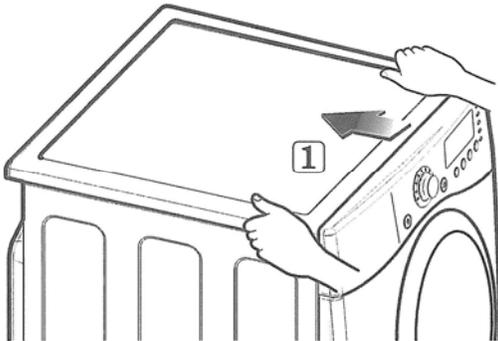


DISASSEMBLY and REPAIR INSTRUCTIONS

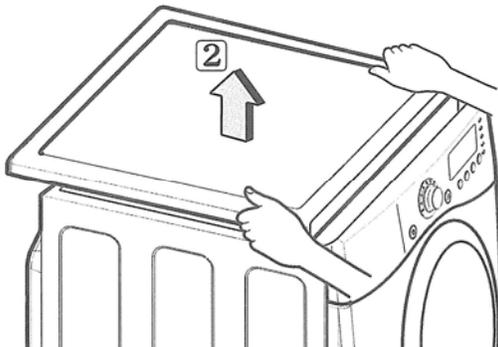
TOP PLATE



1. Remove three screws along the back of the top (cover) plate.

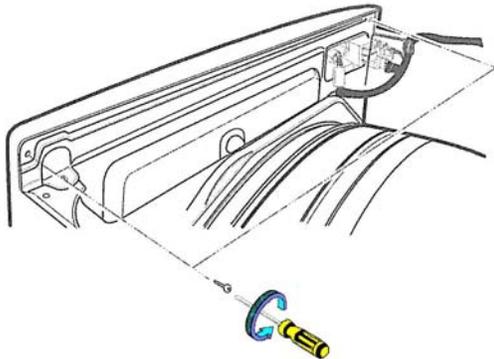


2. Slide the top plate backward.

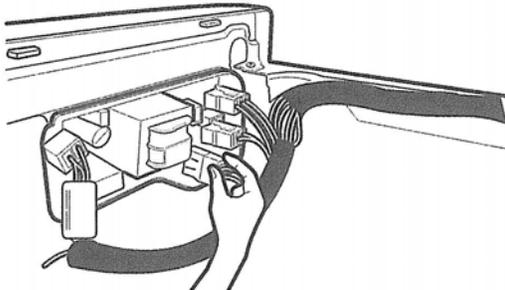


3. Lift the top plate off and set it aside.

CONTROL PANEL

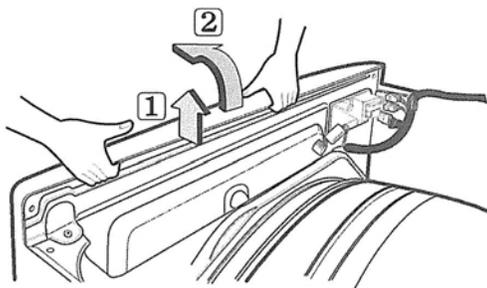


1. Remove two screws, one on each corner of the control panel.



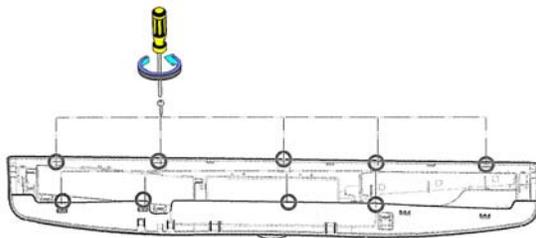
2. Disconnect all connectors.

NOTE: The connectors are all different to prevent misassembly.



3. Pull the control panel upward, then forward. Be sure to disengage all the plastic tabs along the top.

4. Lay the control panel on its face on a soft, protective cloth.



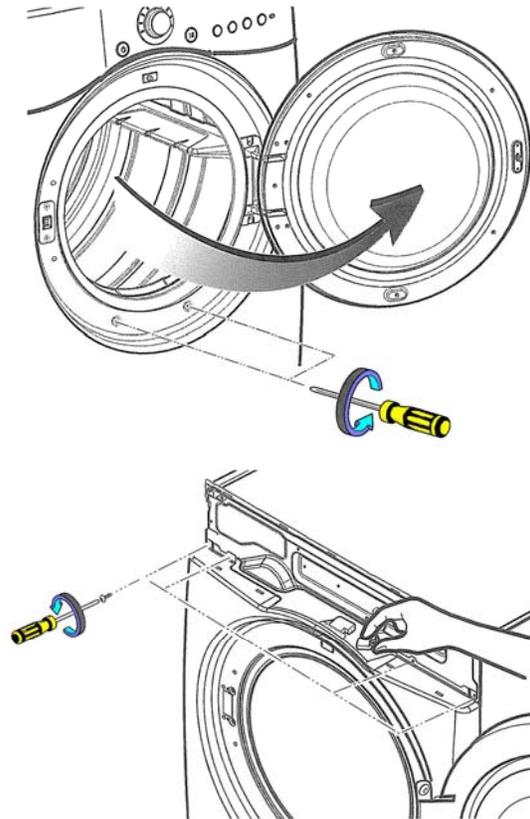
5. Remove nine screws on the display PWB.

6. Remove four screws on the main PWB.

7. Disassemble the control panel.

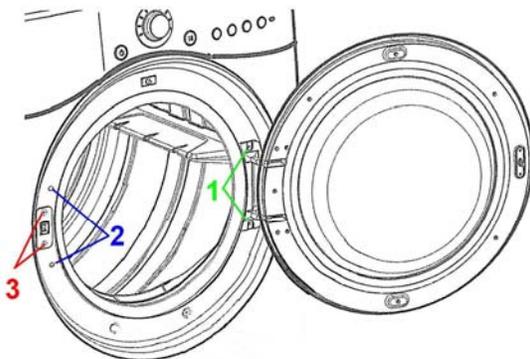
DRYER

FRONT CABINET



1. Remove the top plate.
2. Remove the control panel.
3. Remove the door, if necessary for the repair.
4. Remove two screws in the bottom of the door opening.
5. Remove four screws from the top of the front cabinet.
6. Tilt the front away from the dryer and disconnect the door switch wire harness.

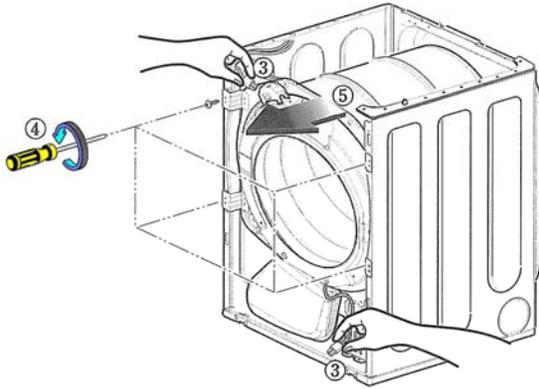
DOOR REVERSAL



1. Remove two screws that hold the door. Remove the door and set it aside on a soft, protective cloth. Save the hinge shim.
2. Remove two screws near the latch.
3. Remove two screws and the latch piece.
4. Rotate everything 180° and reinstall so the door opens from the other side.

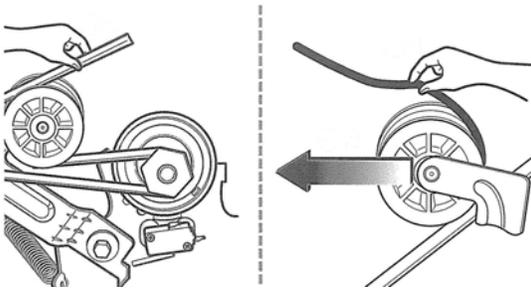
DRYER

TUB FRONT

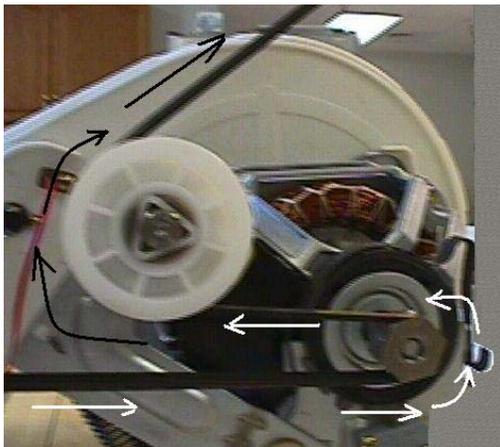


1. Remove the top plate.
2. Remove the front cabinet.
3. Disconnect the door lamp (top) and electrode sensor (bottom).
4. Remove the four screws holding the front assembly.
5. Lift the tub front up and away.

DRUM, BELT, and PULLEY



1. Remove the drum front.
2. Reach in and remove the belt from the motor and pulley.
3. Lift the drum out through the front of the dryer. The belt will still be around the drum.
4. To replace the drum, put the belt around it and set into the dryer to rest on the two rubber wheels on the tub back. Let the belt hang.

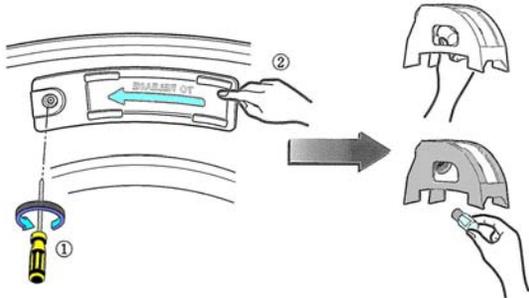


6. Replace the tub front, holding the drum up so it can set on the two rubber wheels on the tub front.
7. Make sure the belt is around the circumference of the drum near the point where it usually rides.
8. Reach in through the front or the side and loop the belt around the motor shaft and the pulley. Rotate the drum by hand a couple of turns to seat it.

DRYER

DRUM LAMP

The drum light can usually be changed without a major disassembly, unless the bulb is frozen in the socket. If the bulb can't be changed using this procedure, you'll have to remove the front cover and the lampholder to get to the socket.



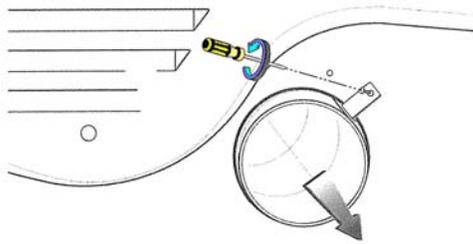
1. Open the door.
2. Hold the lamp shield in place and remove the screw.
3. Slide the shield toward the screw and remove it.
4. Unscrew the bulb and replace it with a 15-watt, 120 V, candelabra-base bulb.
5. Replace the shield and screw.



Notice the bulb holder has feet that hold it in place and tabs to keep it positioned properly.

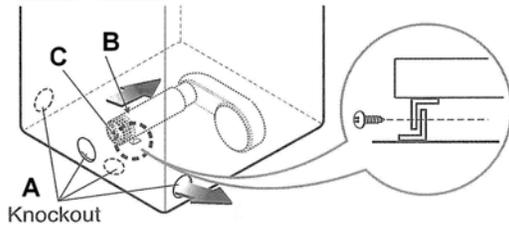
The socket can be removed and replaced by squeezing the tabs and pulling the bulb and socket into the housing. Press it back into place after changing the bulb.

VENT REPLACEMENT



1. Use the VENT KIT to change the exhaust direction.
(Part # 383EEL9001B)

On the back of the dryer, remove the screw securing the exhaust duct.

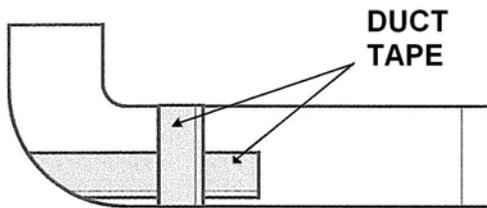


2. (A) Remove the knockout on the left, right*, or bottom, as necessary.

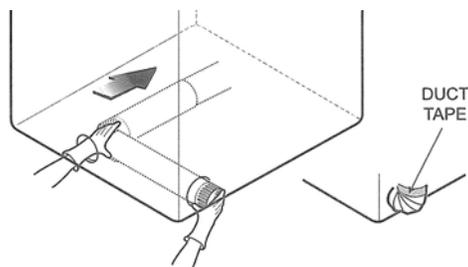
* Right vent option not available on gas dryers due to internal piping interference.

(B) Insert the replacement pipe.

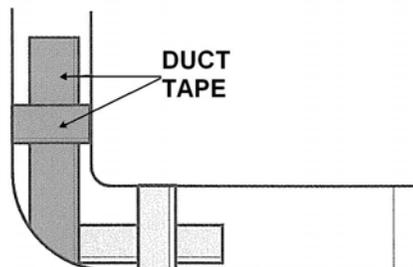
(C) Attach the pipe with a screw.



3. Pre-assemble the elbow and a replacement duct and secure the joint with duct tape.

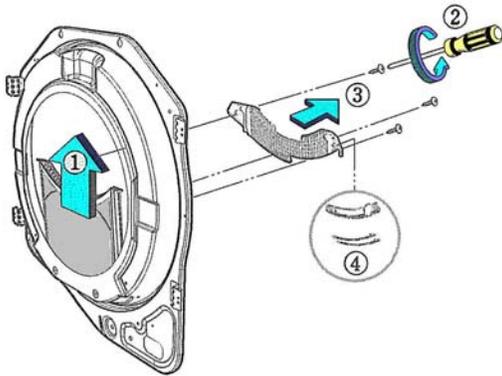


4. Insert the pre-assembled elbow into the dryer through the vent hole and connect it to the internal pipe.



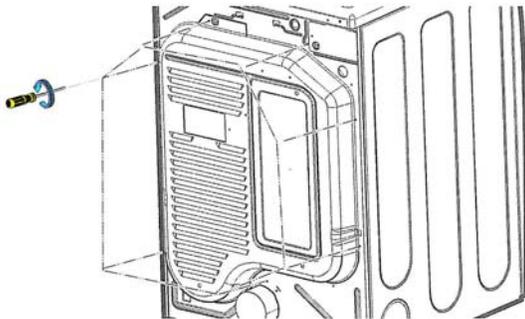
5. Tear off some pieces of duct tape and secure that joint as well.
6. Connect the pipe to the exhaust duct.

FILTER ASSEMBLY and MOISTURE SENSOR



1. Remove the lint filter.
2. Remove three screws holding the cover grid.
3. Remove the cover grid.
4. Disconnect the electrode sensors.

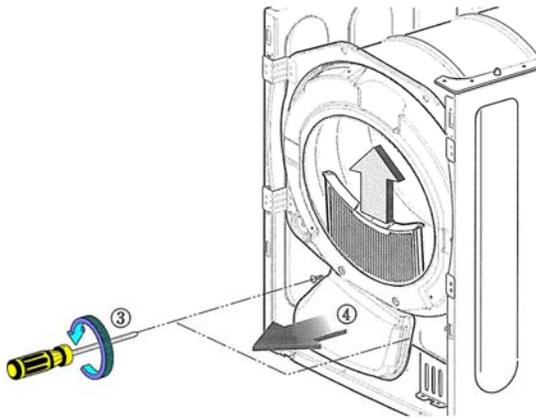
BACK COVER



1. Remove the top plate.
2. Remove the front cover.
3. Remove the tub front.
4. Remove the drum.
5. Remove 7 screws.
6. Remove the back cover.

DRYER

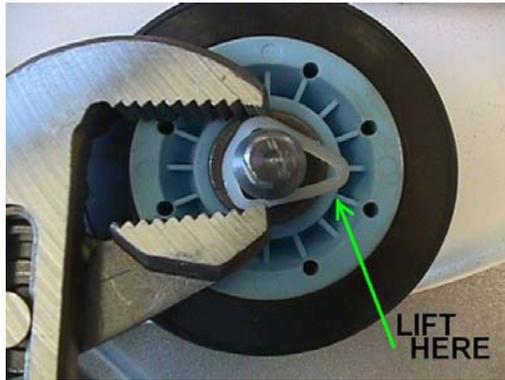
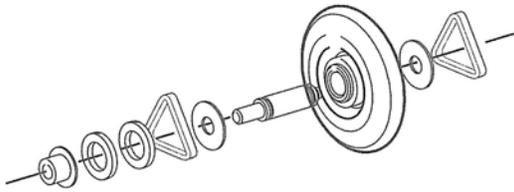
AIR DUCT



1. Remove the top plate.
2. Remove the front cover.
3. Remove the filter.
4. Remove 2 screws at the top of the air duct.
5. Remove the air duct.

DRYER

ROLLERS



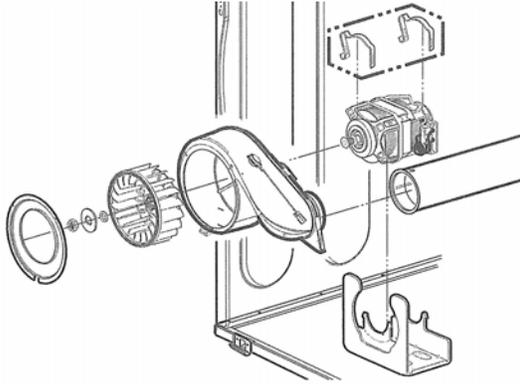
1. Remove the top plate.
2. Remove the front cover.
3. Remove the tub front.
4. Remove the drum (if replacing the back rollers.)
5. Use an open-end wrench to remove and replace the shaft and roller.

NOTE:

If the shaft is OK and you are replacing only the roller, you can squeeze the triangular retainer to remove and replace the roller without removing the shaft from the machine.

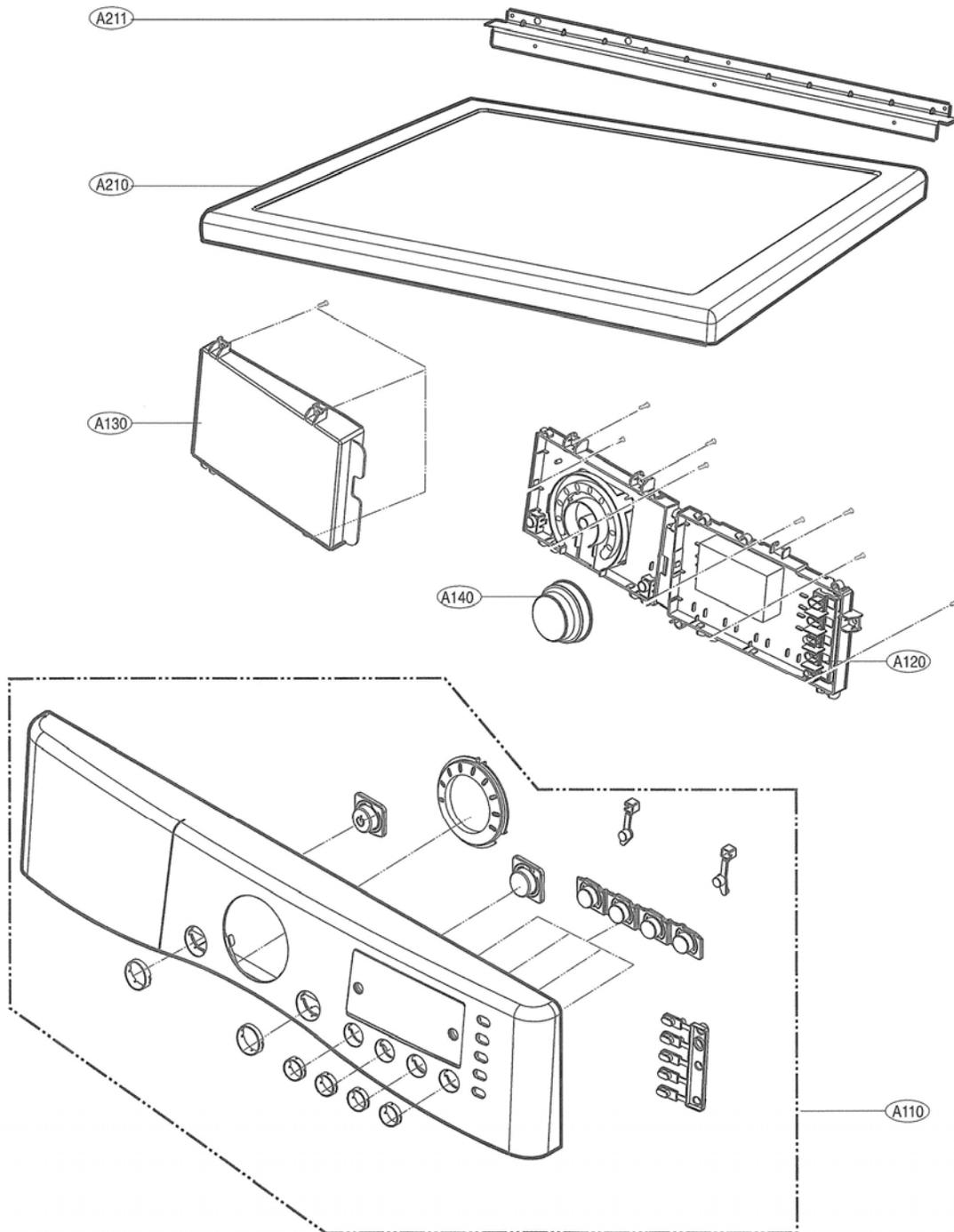
Be sure to install the small bushings. These must be between the roller and the retainer on both sides of the roller. See photo.

BLOWER HOUSING

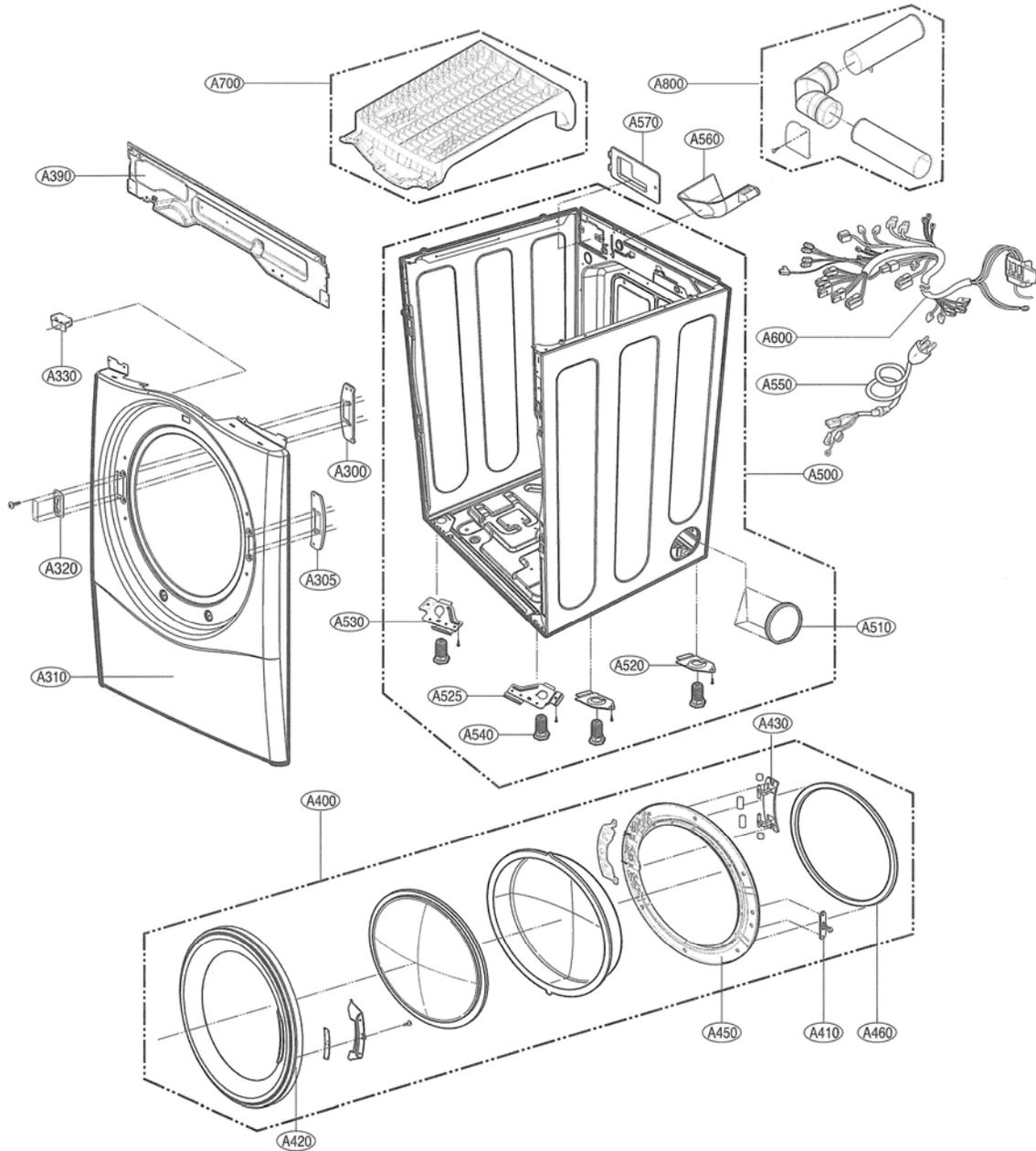


1. Remove the top plate.
2. Remove the front cover.
3. Remove the tub front.
4. Remove the drum.
5. Remove the two screws and the cover on the air guide.
6. Remove the nut and washer on the blower shaft.
7. Remove the fan from the shaft.
8. Press down the hooked end of the clamps and remove them.
9. Disconnect and remove the motor.

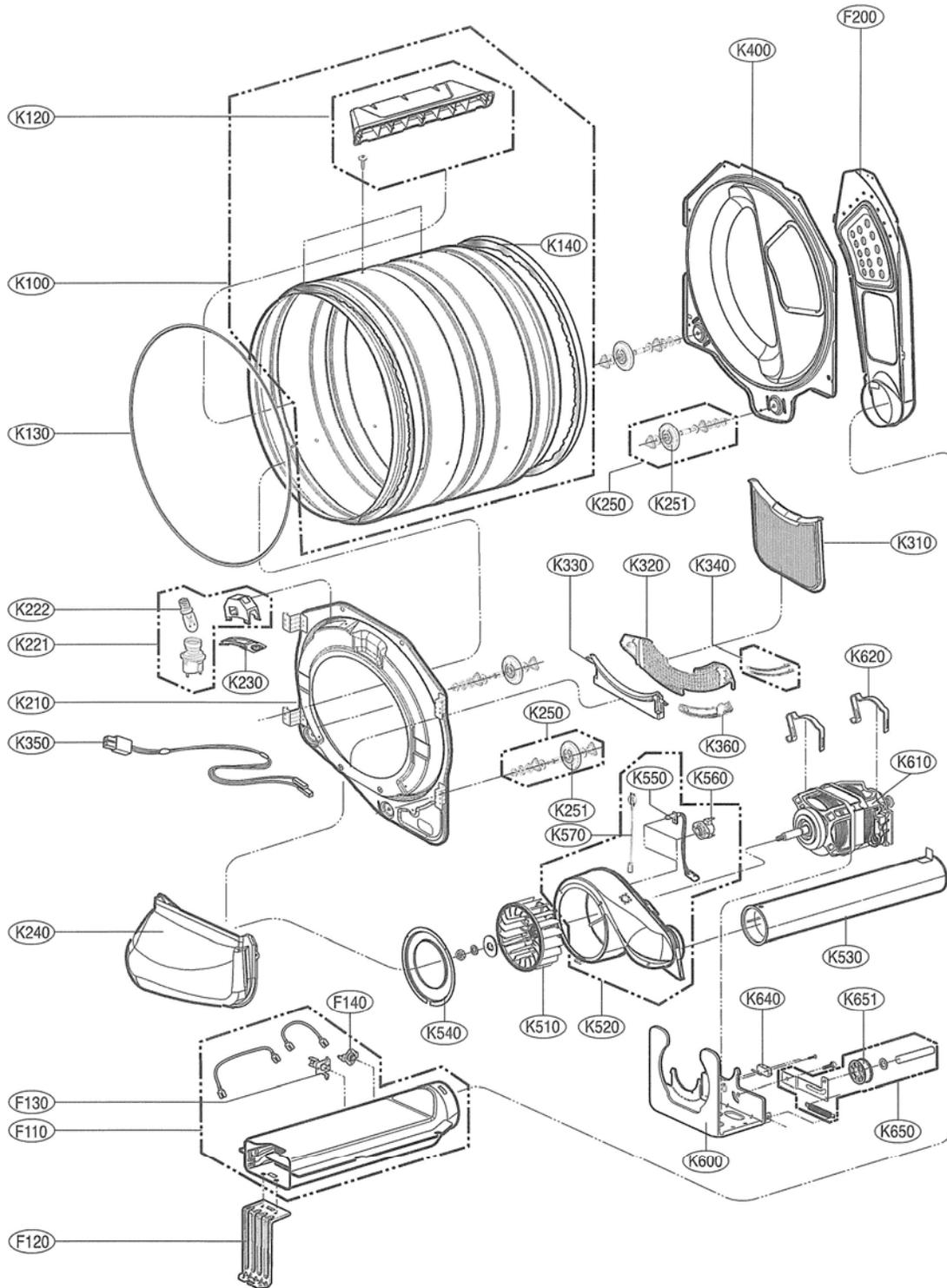
EXPLODED VIEW (Control Panel and Top Plate Assembly)



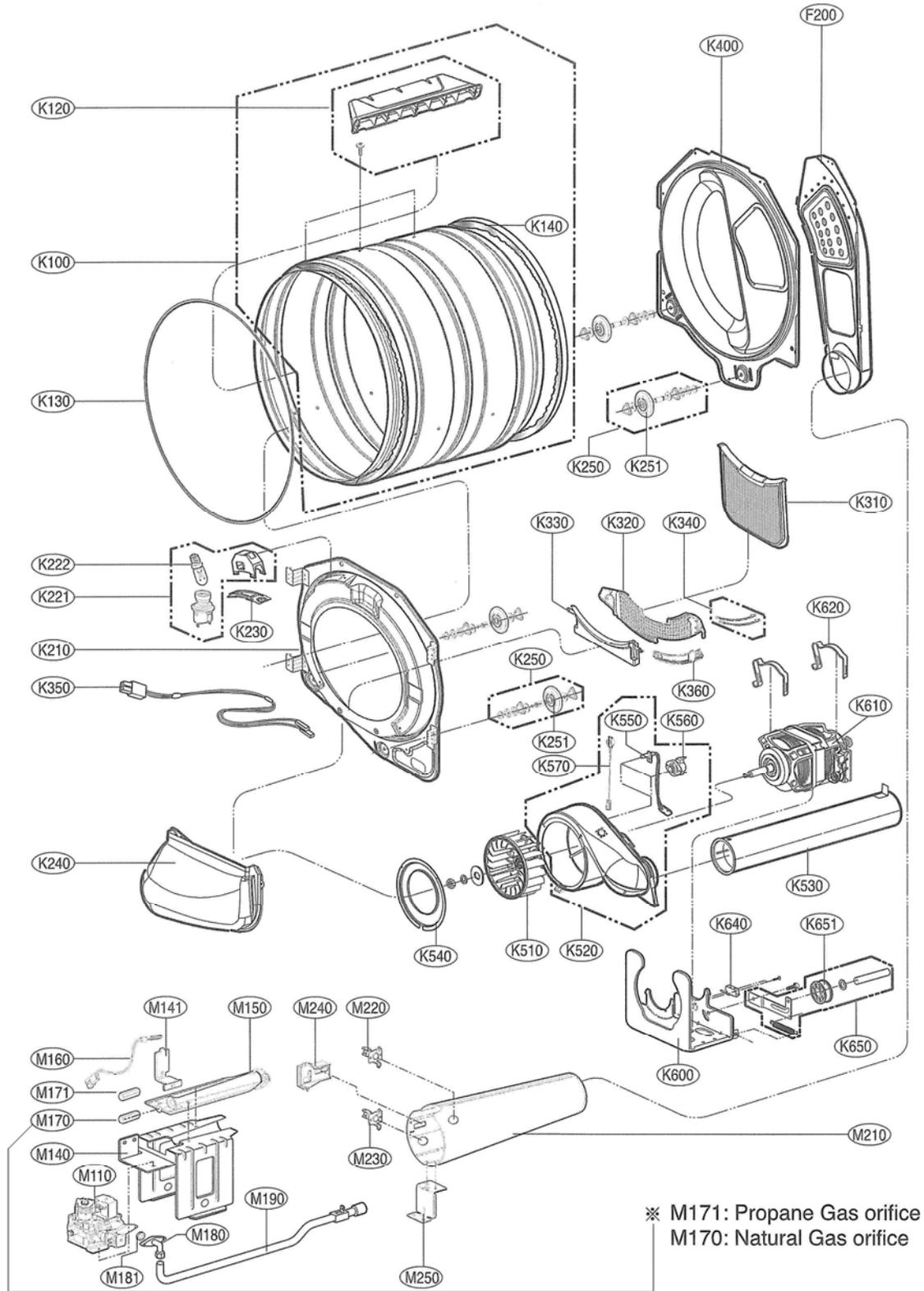
EXPLODED VIEW (Cabinet and Door Assembly)



EXPLODED VIEW (Drum and Motor – Electric Model)



EXPLODED VIEW (Drum and Motor – Gas Model)



PARTS LIST

Loc	Description	DLE8377NM	DLE8377WM	DLG8388NM	DLG8388WM
		Part No	Part No	Part No	Part No
*001	Owner's Manual	3829EL3009B	3829EL3009B	3829EL3009B	3829EL3009B
*002	Box, Carton	3890EZ3613A	3890EZ3613A	3890EZ3613A	3890EZ3613A
*004	Manual, Service	3828EL3005D	3828EL3005D	3828EL3005D	3828EL3005D
A110	Panel Assembly, Control	3721EL0009C	3721EL0009A	3721EL0009D	3721EL0009B
A120	PCB Assembly, Display	6871EL1011A	6871EL1011A	6871EL1011B	6871EL1011B
A130	PCB Assembly, Main	6871EL1013C	6871EL1013C	6871EL1013D	6871EL1013D
A140	Knob Assembly	4941ER3005A	4941ER3005A	4941ER3005A	4941ER3005A
A210	Plate Assembly, Top	3457ER1006X	3457ER1006D	3457ER1006X	3457ER1006D
A211	Plate, Upper	3300EL2001E	3300EL2001A	3300EL2001E	3300EL2001A
A300	Bracket, Hinge	4810EL3006A	4810EL3006A	4810EL3006A	4810EL3006A
A305	Bracket, Hinge	4810EL3006B	4810EL3006B	4810EL3006B	4810EL3006B
A310	Cabinet Cover Assembly	3551EL0009B	3551EL0009A	3551EL0009B	3551EL0009A
A320	Locker Assembly	4027EL1001A	4027EL1001A	4027EL1001A	4027EL1001A
A330	Switch, Micro	6601EL3001A	6601EL3001A	6601EL3001A	6601EL3001A
A330	Safety Switch Assembly	6601EL3001A	6601EL3001A	6601EL3001A	6601EL3001A
A390	Frame Assembly	3211EL1004A	3211EL1004A	3211EL1004A	3211EL1004A
A400	Door Assembly	3581EL0004A	3581EL0004A	3581EL0004A	3581EL0004A
A410	Locker, Hook	4026EL3007A	4026EL3007A	4026EL3007A	4026EL3007A
A420	Outer Door Frame	3212EL1015A	3212EL1015A	3212EL1015A	3212EL1015A
A430	Hinge	4774EL2001A	4774EL2001A	4774EL2001A	4774EL2001A
A450	Inner Door Frame	3212EL1005B	3212EL1005B	3212EL1005B	3212EL1005B
A460	Gasket	4986EL2004A	4986EL2004A	4986EL2004A	4986EL2004A
A500	Cabinet Assembly	3091EL0003P	3091EL0003M	3091EL0003Q	3091EL0003N
A510	Cap (Knockout cover)	5006EL3001G	5006EL3001D	5006EL3001G	5006EL3001D
A520	Bracket, Base	4810EL3001A	4810EL3001A	4810EL3001A	4810EL3001A
A525	Bracket, Base	4810EL3009A	4810EL3009A	4810EL3009A	4810EL3009A
A530	Bracket, Base	4810EL3009B	4810EL3009B	4810EL3009B	4810EL3009B
A540	Leg	4778EL3001A	4778EL3001A	4778EL3001A	4778EL3001A
A560	Cover, Guide	3550EL3007A	3550EL3007A	6411ER1005B	6411ER1005B
A570	Cover, Safety	3550EL3002A	3550EL3002A		
A600	HARNES, PWB	6877EL1019B	6877EL1019B	6877EL1020B	6877EL1020B
A700	Rack	3750EL1001B	3750EL1001B	3750EL1001B	3750EL1001B
A800	Parts As'by (Side Vent Kit)	383EEL9001B	383EEL9001B	383EEL9001B	383EEL9001B
F110	Heater Assembly (Elec)	5301EL1001G	5301EL1001G		
F120	Bracket, Heater	4810EL1007A	4810EL1007A		
F130	Thermostat	6931EL3003D	6931EL3003D		
F140	Thermostat Assembly	6931EL3001E	6931EL3001E		
F200	Duct Assembly	5209EL1001C	5209EL1001C	5209EL1001D	5209EL1001D
K100	Tub Assembly, Drum	3045EL1002E	3045EL1002E	3045EL1002E	3045EL1002E
K120	Lifter	4432EL1002B	4432EL1002B	4432EL1002B	4432EL1002B
K130	Belt, Poly V	4400EL2001A	4400EL2001A	4400EL2001A	4400EL2001A

DRYER

Loc	Description	DLE8377NM	DLE8377WM	DLG8388NM	DLG8388WM
		Part No	Part No	Part No	Part No
K140	Gasket	4036EL3001A	4036EL3001A	4036EL3001A	4036EL3001A
K210	Tub, Drum (Front)	3044EL1001A	3044EL1001A	3044EL1001B	3044EL1001B
K221	Lamp, Incand., Assembly	6913EL3002C	6913EL3002C	6913EL3002C	6913EL3002C
K222	Lamp, Incandescent, Bulb	6913EL3001A	6913EL3001A	6913EL3001A	6913EL3001A
K230	Cover, Lamp	3550EL2001A	3550EL2001A	3550EL2001A	3550EL2001A
K240	Duct Assembly	5209EL1002A	5209EL1002A	5209EL1002A	5209EL1002A
K250	Roller Assembly	4581EL2002A	4581EL2002A	4581EL2002A	4581EL2002A
K251	Roller Assembly	4581EL3001A	4581EL3001A	4581EL3001A	4581EL3001A
K310	Filter Assembly, Lint	5231EL1003B	5231EL1003B	5231EL1003B	5231EL1003B
K320	Cover, Guide	3550EL1006B	3550EL1006B	3550EL1006B	3550EL1006B
K330	Guide, Filter	4974EL1003B	4974EL1003B	4974EL1003B	4974EL1003B
K340	Sensor	6500EL3001A	6500EL3001A	6500EL3001A	6500EL3001A
K350	Cable & Wire	6631EL3003B	6631EL3003B	6631EL3003B	6631EL3003B
K360	Holder	4930EL2004B	4930EL2004B	4930EL2004B	4930EL2004B
K400	Tub, Drum (Rear)	3044EL0002B	3044EL0002B	3044EL0002B	3044EL0002B
K510	Casing Assembly	5835EL1002A	5835EL1002A	5835EL1002A	5835EL1002A
K520	Housing As'by, Blower	3661EL1001E	3661EL1001E	3661EL1001E	3661EL1001E
K530	Duct Assembly	5209EL1006A	5209EL1006A	5209EL1006A	5209EL1006A
K540	Guide Assembly	4975EL3001A	4975EL3001A	4975EL3001A	4975EL3001A
K550	Thermistor, NTC	6323EL2001B	6323EL2001B	6323EL2001B	6323EL2001B
K560	Thermostat	6931EL3002A	6931EL3002A	6931EL3002A	6931EL3002A
K600	Bracket, Motor	4810EL1002A	4810EL1002A	4810EL1002A	4810EL1002A
K610	Motor, Unclassified	4681EL1002A	4681EL1002A	4681EL1002A	4681EL1002A
K620	Clamp	4860EL3001A	4860EL3001A	4860EL3001A	4860EL3001A
K640	Switch, Micro	3W40025Q	3W40025Q	3W40025Q	3W40025Q
K650	Pulley Assembly, Motor	4561EL3002A	4561EL3002A	4561EL3002A	4561EL3002A
K651	Pulley, Idle	4560EL3001A	4560EL3001A	4560EL3001A	4560EL3001A
M110	Valve Assembly, Gas			5221EL2002A	5221EL2002A
M140	Guide, Burner			4974EL1001A	4974EL1001A
M141	Bracket, Base			4810EL3002A	4810EL3002A
M150	Pipe Assembly			5201EL3001A	5201EL3001A
M160	Igniter			5318EL3001A	5318EL3001A
M170	Orifice, Natural Gas			4948EL4001B	4948EL4001B
M171	Orifice, Propane			4948EL4002B	4948EL4002B
M180	Connector, Mech, Pipe			4932EL4001A	4932EL4001A
M181	Seal			4036EL3002A	4036EL3002A
M190	Pipe Assembly			5201EL2001A	5201EL2001A
M210	Funnel			3016EL1001A	3016EL1001A
M220	Thermostat Assembly			6931EL3004B	6931EL3004B
M230	Thermostat Assembly			6931EL3003C	6931EL3003C
M240	Sensor Assembly			6501EL3001A	6501EL3001A
M250	Supporter, Holder			4980EL3001A	4980EL3001A

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