

# TRAINING MANUAL

## **DLE9577/DLG9588 Dryer Training** Spring 2007



**LG Service**

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**Digital Appliance**

## DLG9577/DLE9588

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## SPECIFICATIONS

ITEM		DLE9577WM DLG9588WM	DLE9577SM DLG9588SM	REMARK
Material & Finish	Color	Blue White	Titanium	
	Top Plate	Porcelain		
	Door Trim	Silver		
POWER SUPPLY		120V/240V 60Hz (26A)		
ELECTRICITY CONSUMPTION	MOTOR	250W (4.5A)		AC 120V
	HEATER	5400W (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 38 3/5" x 30 1/10"		
Packing (WxHxD)		29 7/10" x 44 7/10" x 31 2/5"		

## SAFETY

### GAS

#### 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 certified so to do.

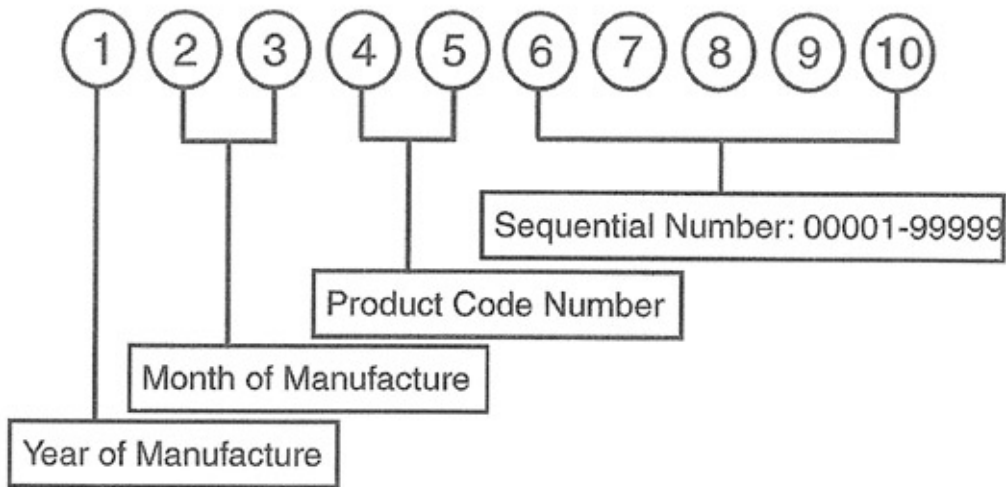
### ELECTRIC

The gas dryer uses 120 V<sub>AC</sub>. The electric dryer uses 240 V<sub>AC</sub>. Even when these products are turned OFF, there is live voltage on some of the internal terminals. Always unplug the appliance before opening the case or servicing.

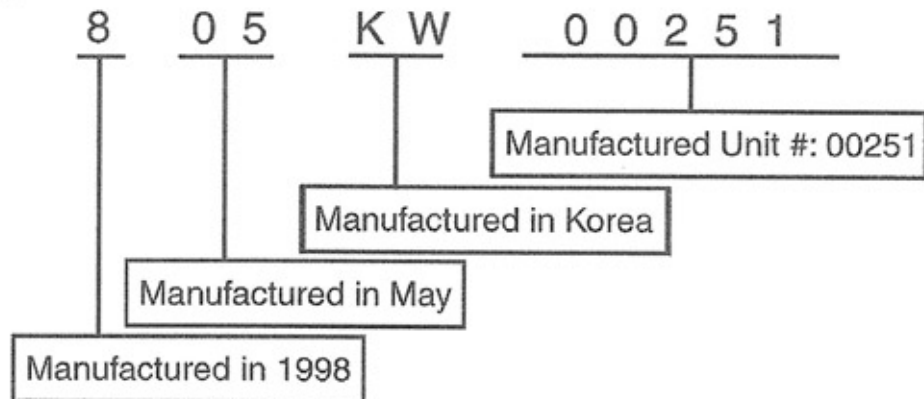
## SERIAL NUMBER IDENTIFICATION

The serial number is unique to each product. It gives information concerning the time and place of manufacture. The serial number is required to be paid for warranty service and to get the correct part in the event a running production change was made. Some models may have four (4) letters instead of two (2) for the product code number. The third and fourth letters are significant only to the manufacturing facility.

This chart will help you decode the serial number.

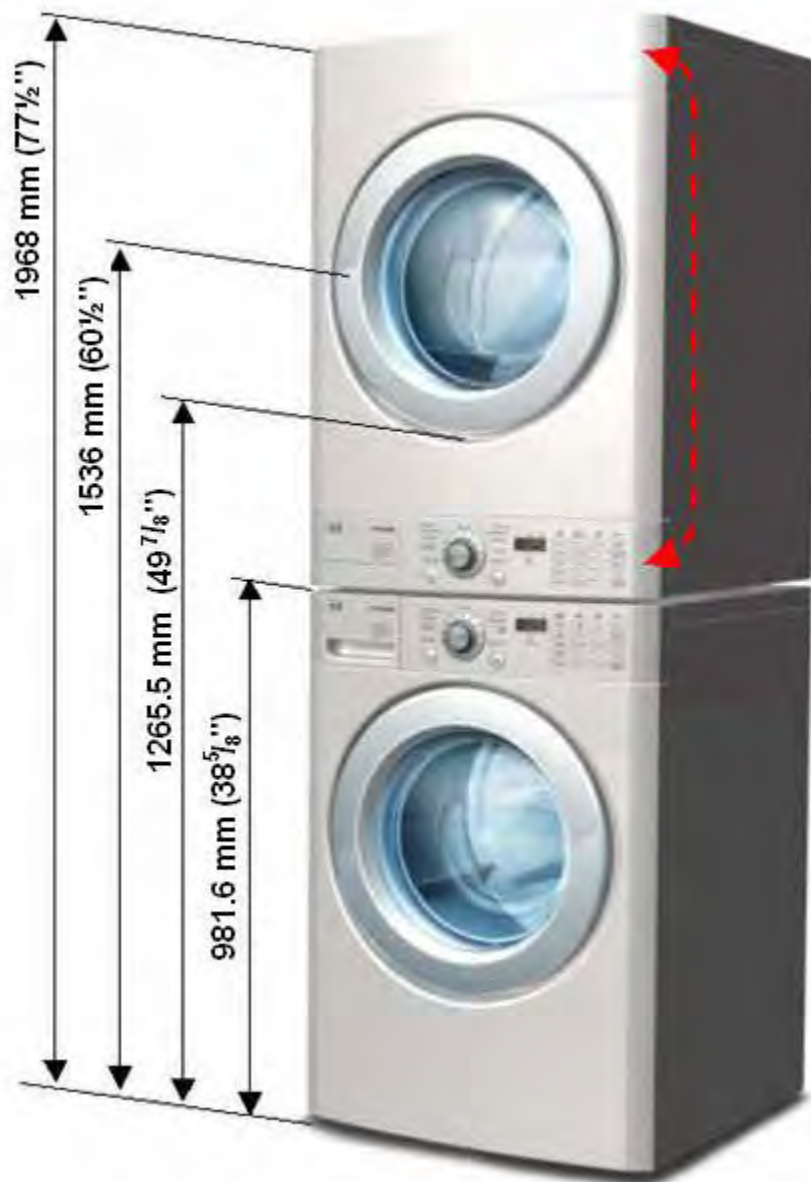


### Example



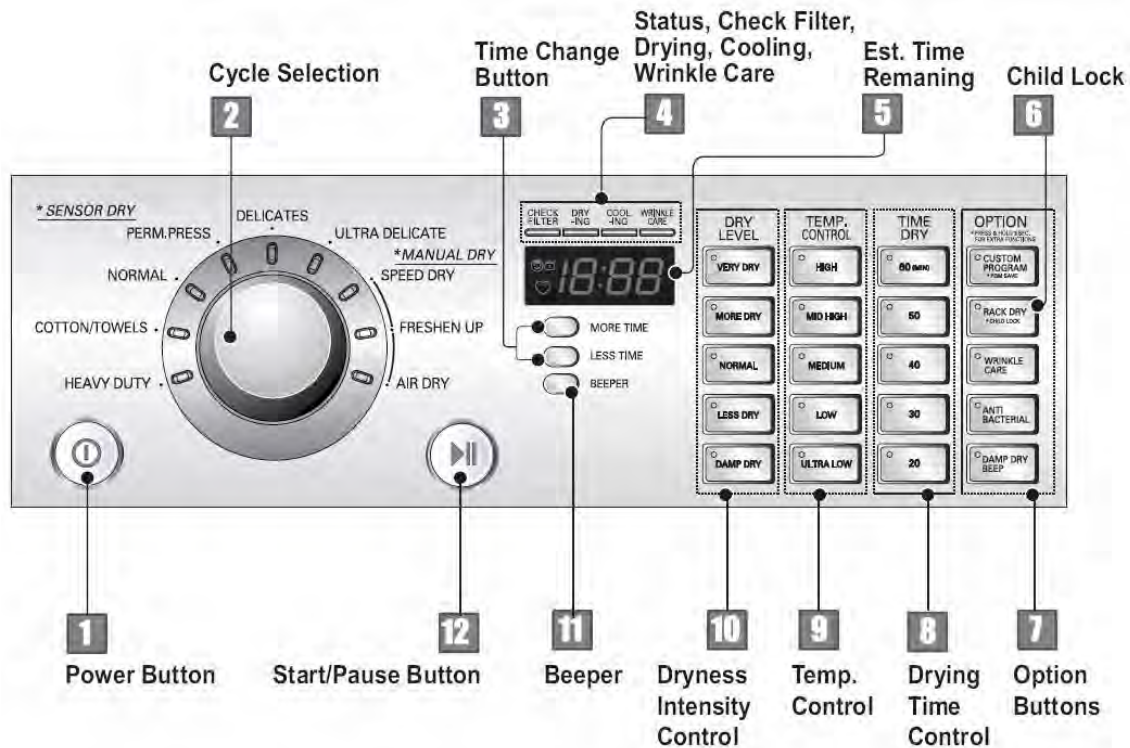
## INTRODUCTION

The 9577/9588 dryer is very similar to other LG dryers with the exception of the front panel and the control panel. The control panel is designed to allow the customer to choose the location of either the top or the bottom, which allows for easier access to the controls when the dryer is stacked on top of the washer. (See page 42.) The dryer is shipped from the factory with the control panel in the lower position.



## CONTROLS

The control panel features discrete buttons for each selection rather than requiring the user to cycle through numerous choices to pick one.



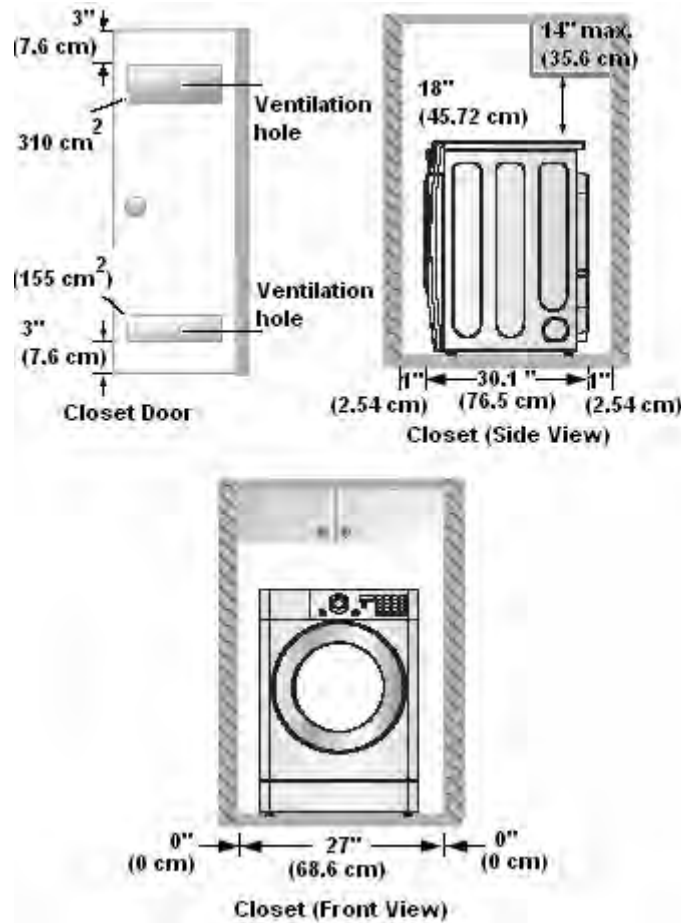
A couple of buttons serve double functions. Pressing and holding RACK DRY will turn the Child Lock ON or OFF. Pressing and holding CUSTOM PROGRAM will store the customer's favorite setting (one that is used most of the time.)

The main control board is located in the top of the machine rather than in the front panel. The communication between the main control board and the control panel is handled by a UART (Universal Asynchronous Receiver Transmitter) and a 7-wire cable rather than by a 28-wire cable as in previous models. This simplification is what makes it possible to have a re-locatable control panel.



**INSTALLATION**

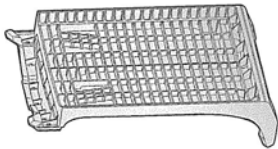
The 9577/9588 dryer is designed to be used stacked on top of a WM2496 washer, so the control panel is shipped in the lower position. It can be converted easily to be used as a conventional dryer next to a washer. The customer can do this himself. (See page 42 of this training manual.)



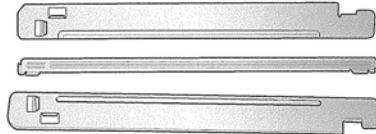
The 9577/9588 dryer can be installed in a laundry closet if the clearance guidelines are met. (See drawing, above.) It does not matter whether the dryer is stacked, as long as the closet door opening provides the appropriate vertical clearance for lifting and stacking in the closet.

## ACCESSORIES

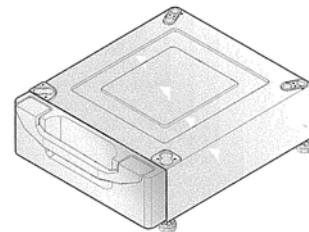
The 9577/9588 dryer is shipped with a drying rack and a stacking kit. The pedestal is optional. The dryer is designed to stack on the matching WM2496 washer. Both products can be stacked on a single pedestal, if desired, but the dryer must always be on top of the washer.



**DRYING RACK**



**STACKING KIT**



**PEDESTAL**

## INSTALLATION (RACK)



It's simple!

Open the dryer door.

Set the rack in place.

Select **RACK DRY**.  
(2<sup>nd</sup> button from top on the option row on the right of the panel)

Press **START**.

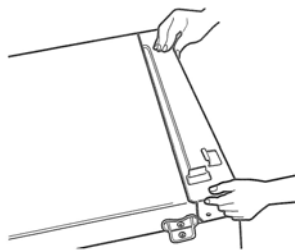
Be sure the front of the rack is properly situated in the notches on either side of the filter. The back of the rack should rest on the drum and allow the drum to rotate.

## 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.

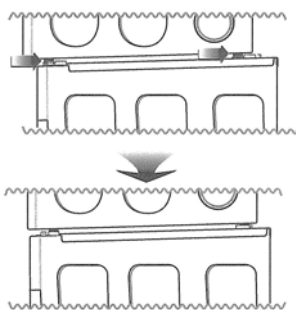


STACKING KIT

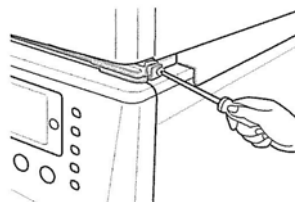


1. Place the washer on a solid, even floor. If you plan to use a pedestal, install it now, before going any further. (See page 12.)
2. Attach the side bracket loosely to the top plate of the washer but don't tighten the screw all the way.
3. Hold the bracket away from the top plate and peel the protective paper from the adhesive tape on the side bracket. Hold the adhesive surface off the top as you tighten the screw. When the screw is tight, attach the adhesive tape to the top plate.

Repeat steps 2 and 3 for the other side.



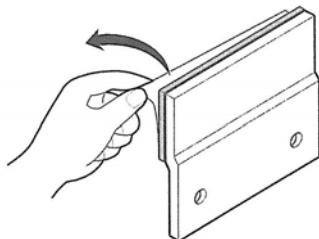
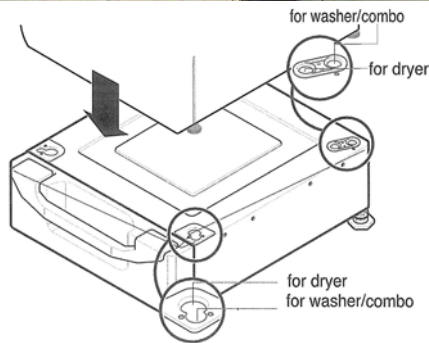
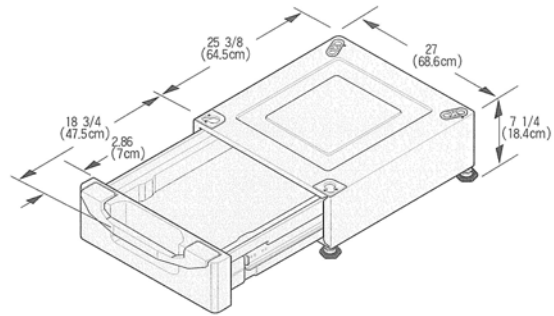
4. Level the legs on the dryer on a flat floor before setting the dryer on top of the washer.



5. Slide the dryer back into the stops on the rails. Attach the front bar with 2 screws to hold the feet in place.

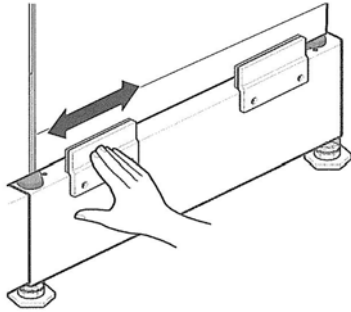
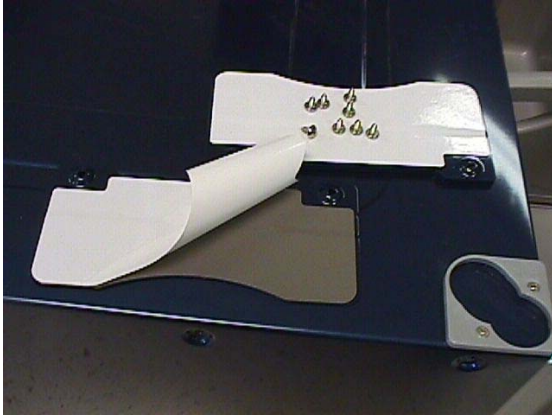
## INSTALLATION (PEDESTAL KIT)

This procedure covers installing and leveling the 7½” and 13” pedestals for 27” washers, dryers, and combos. If the products are stacked, the washer must be below the dryer, and you’ll use only one pedestal.



1. Remove the pedestal, installation hardware, and instructions from the shipping carton. Set the pedestal as close to the installation position as possible.
2. Level the pedestal on a flat, solid floor before proceeding. Lock down the rear adjusters but leave the front ones free for now.
3. Note which holes are for the washer and which are for the dryer. (See drawing, above.) If you are stacking the appliances, the washer **must** be on the bottom.
4. Remove the protective paper from the adhesive surface of the bracket. Be particularly careful, because when the adhesive makes contact, there is no adjustment possible.

### PEDESTAL, continued

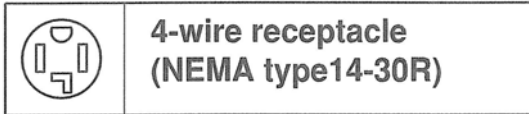


5. Depending upon the model, your pedestal may have straight or curved brackets. The curved ones are to be used on the rear positions when mounting a dryer to a pedestal, but can also be used in any other position on the pedestal.
6. Holding the exposed adhesive away from the appliance, insert the screws and get them started. Then press the brackets to the appliance and tighten all the screws. Rub the bracket from side to side to ensure a complete bond.
7. Use the wrench to turn each leg of the appliance approximately  $\frac{1}{4}$  turn to put a little pressure between the appliance and the pedestal. This will eliminate any rattles.
8. It is usually easier to set the pedestal and washer into place and connect the water and drain hoses before placing the dryer on top of them.

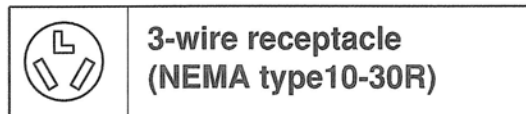
## ELECTRICAL CONNECTION (Electric Dryer Only)

### PIGTAIL INSTALLATION

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

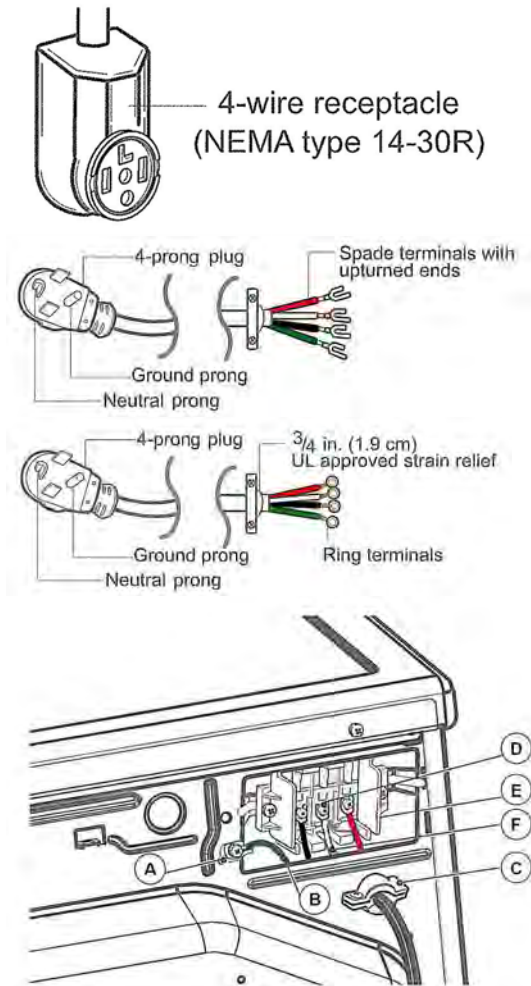


4-wire receptacle  
(NEMA type 14-30R)



3-wire receptacle  
(NEMA type 10-30R)

### 4-wire Connection



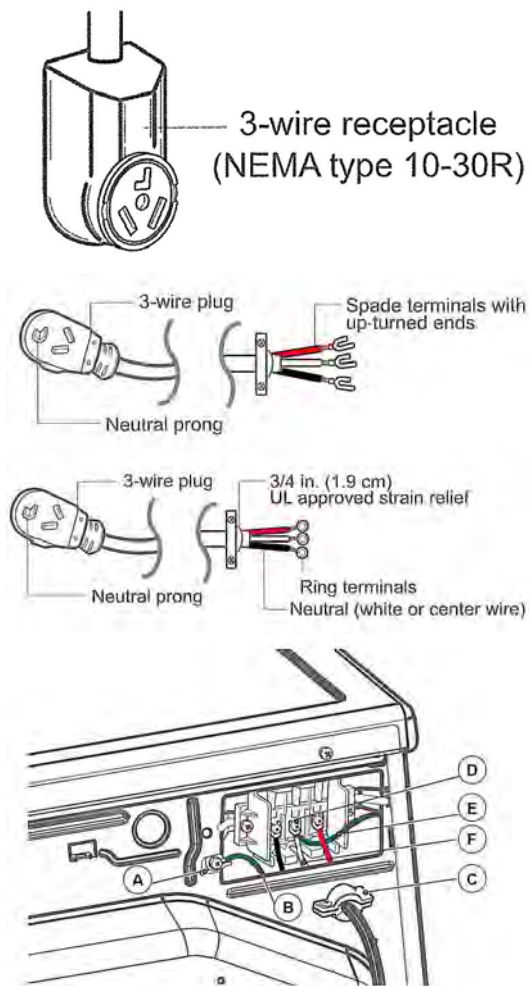
The 4-wire receptacle looks like this.

Your power cord may have spade or ring connectors.

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

### 3-wire Connection



The 3-wire receptacle looks like this.

Your power cord may have spade or ring connectors.

Install a strain relief on the pigtail. 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 pigtail
- C. Strain relief
- D. Neutral screw on terminal block
- E. Ground-to-neutral connection
- F. Neutral wire from pigtail

### 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.

### ELECTRICAL CONNECTION (Gas Dryer Only)

The dryer requires a 120 V<sub>AC</sub> single-outlet dedicated circuit. The cord is installed at the factory and no user-intervention is required.



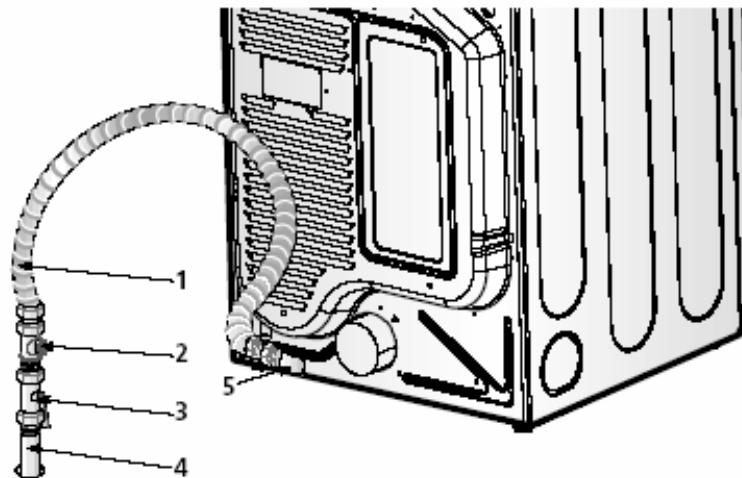
## GAS CONNECTION (Gas Dryer Only)

**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, certified, 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. **DO NOT** use a match or flame.

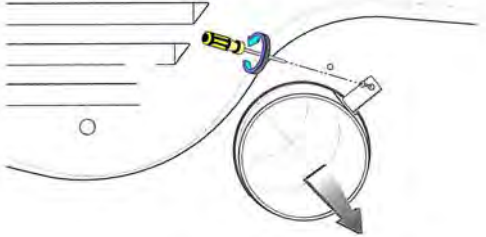
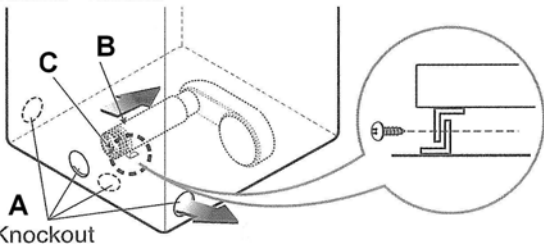
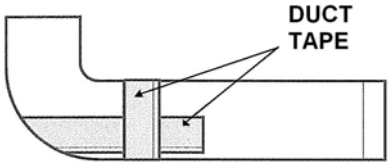
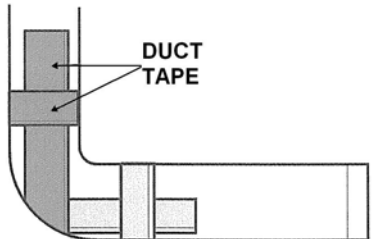
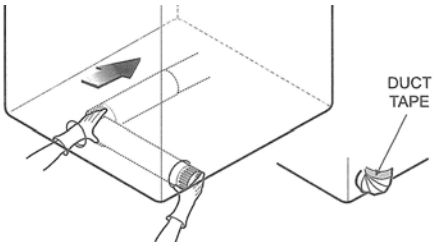
If you smell gas, turn off the main valve and open a window.



1. Flex line (Bought in the length needed, with fittings attached to both ends)
2. Bleeding and pressure check port
3. Cut-off valve
4. Gas supply pipe
5. Point of attachment to dryer

## VENT PIPE CONNECTION

The dryer is shipped from the factory vented out the back. With the optional vent kit (Part # **3911EZ9131X**), the dryer can be vented out either side (left side only for gas dryers because of gas piping interference) or the bottom (through the floor). It is important to remember the vent must exhaust to outside air. The dryer cannot be vented into a garage, an attic, or a crawl space beneath a house or trailer. Follow these steps to change the vent output direction.

- 
1. Remove the screw and the existing exhaust vent pipe. Install vent kit part number **3911EZ9131X**.
- 
2. Remove the appropriate knockout (left, right, or bottom.) The knockout is easily removed by pressing one of the tabs inside the dryer and popping it out of the hole.
- 
3. Insert the short duct piece with the tab inside the dryer through the hole on the back. Attach it to the blower housing and align the tab on the duct with the one on the base. Install the screw.
- 
4. Preassemble the elbow and the remaining piece of duct. Seal the joint with duct tape as shown. (Be sure to use real, heatproof duct tape rather than an imitation.)
- 
5. Connect the elbow to the duct in the dryer and seal that joint with duct tape.  
  
Connect to the outside vent.

## REMOTE MONITOR and MODEM



The remote laundry monitor (RLM) allows the user to monitor the progress of both washer and dryer, provided each is equipped with a modem.



Remove the cover and install the modem on the back of the dryer.

Save the small socket cover and screws in the event you need to remove the modem for some reason. The socket should be covered at all times.



For convenience, you can remove the cover and install the modem on the back of the washer.

Save the small socket cover and screws in the event you need to remove the modem for some reason. The socket should be covered at all times.

After installation is complete, plug in the washer, dryer, and monitor, in that order. Turn on the washer and dryer. Press and hold the SET button on the monitor.

## DRYER CYCLE CHART

### DRYER CYCLE PROCESS

Cycle		Default			Conditions of operation and termination				
		Temp- erature	Dry Level	Display time	Drying		Cooling		Wrinkle care  Time
					Electro- sensor	Temp- Control	Default time	Temp- Control	
<b>Sensor Dry *</b>	HEAVY DUTY	HIGH	(Normal)	54min	Saturation	68±4° C (151±7° F)	(5min)	47±5° C (117±9° F)	3Hr
	COTTON/ TOWELS	MID HIGH	(Normal)	55min	Saturation	66±4° C (151±7° F)	(5min)	47±5° C (117±9° F)	
	NORMAL	MEDIUM	(Normal)	41min	Saturation	60±4° C (140±7° F)	(5min)	47±5° C (117±9° F)	
	PERM PRESS	LOW	(Normal)	36min	Saturation	52±3° C (126±5° F)	(5min)	47±5° C (117±9° F)	
	DELICATES	LOW	(Normal)	32min	Saturation	52±3° C (126±5° F)	(5min)	38±5° C (100±9° F)	
	ULTRA DELICATE	ULTRA LOW	(Normal)	34min	Saturation	45±3° C (113±5° F)	(5min)	38±5° C (100±9° F)	
<b>Manual Dry **</b>	SPEED DRY	(HIGH)	-	25min	Saturation	70±5° C (158±9° F)	(5min)	47±5° C (117±9° F)	3Hr
	FRESHEN UP	(MID HIGH)	-	20min	Saturation	66±5° C (151±9° F)	(5min)	47±5° C (117±9° F)	
	AIR DRY	-	-	30min	Saturation	No Heater	N/A	N/A	
<b>Load</b>		<b>Motor</b>							Off Time: 6min
		<b>Heater</b>							On Time: 10sec

On **SENSOR DRY** cycles, the dryness level is selected by the user.  
 On **MANUAL DRY** cycles, the drying time and temperature are set by the user.  
 On every cycle, the default settings can be overridden. Not all options will be available, such as HIGH heat on the DELICATE cycle.

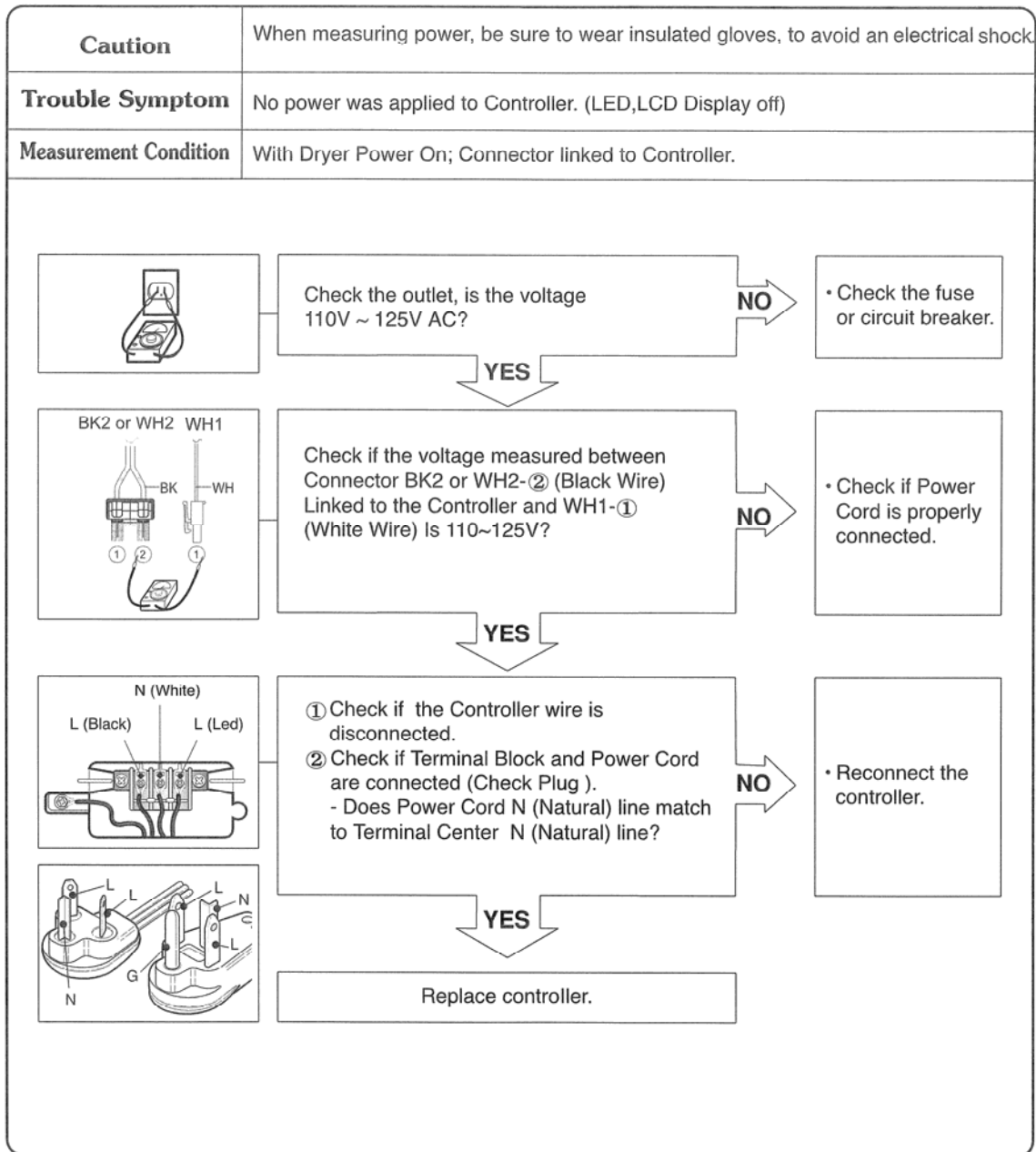
## DIAGNOSTIC TEST MODE

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.

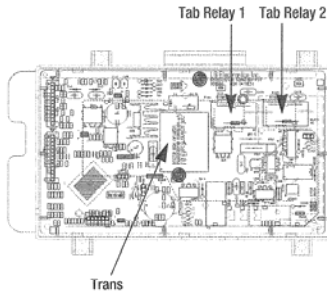
Press the START/PAUSE button	CHECKING ACTION	DISPLAY	CHECKING POINT	REMARK
None	Electric control & temperature sensor	LQC TEST	Won't power up Defective LED or LCD	See test 1
		tE1	Thermistor open	See test 2
		tE2	Thermistor closed	
Once	Motor	70 ~ 239 Measured Moisture Value.	Motor runs	See test 3
			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"> <li>■ ELECTRIC TYPE Motor + Heater 1 (2700W)</li> <li>■ GAS TYPE Motor + Valve</li> </ul>	Current Temp.	<ul style="list-style-type: none"> <li>■ ELECTRIC TYPE-Heater runs</li> <li>■ GAS TYPE-GAS Valve runs (Display the Temperature of inside drum.)</li> </ul>	Gas valve See test 7
3 Times	<ul style="list-style-type: none"> <li>■ ELECTRIC TYPE Motor + Heater 1 +Heater 2 (5400W)</li> <li>■ GAS TYPE Motor+Valve</li> </ul>	Current Temp. (5 ~ 70)		
4 Times	Motor, Heater	50~230 Measured SE (Error Display)	Motor, Heater Off Semi-conductor	
┐ 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"> <li>• 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.</li> <li>• Press Start 2 times and then open the door. Proceed again from the step 1 all the way to the step 4.</li> <li>• 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.</li> </ul>	

## TEST 1 – AC Electrical Supply



## TEST 1 – AC Electrical Supply, continued

### 1. Power Connection



\* PCB ASSEMBLY LAYOUT

**Table1 Connection of the Tab Relay with Heater (Elec)**

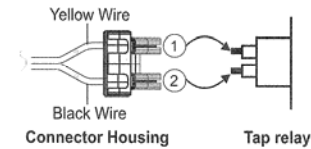
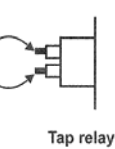
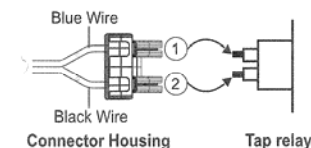
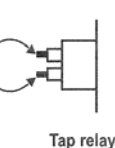
	Tab Relay 1	Tab Relay 2	Heater 1	Heater 2	Remark
High Mid High Medium	on	on	on	on	Temperature Control below $68 \pm 4^{\circ}\text{C}$ . Turn on Heater 1 and Heater 2.
Low Extra Low	on	off	on	off	Temperature Control below $52 \pm 4^{\circ}\text{C}$ . Only Turn on Heater 1.

**Table 2 : 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

### 2. Status Mode Of The Connection

Table1 Connection of Tab Relay with the Tab Relay of the PCB ASSEMBLY (Elec)

	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)

**TEST 1 – AC Electrical Supply, continued**

Table 2 Connection of Tab Relay with PCB ASSEMBLY (Gas)

	Color	Harness	PCB	Remark
Connector Housing	Black			Check the Matching color Between Harness wire and Tab Relay. (Black Housing – Black Tab Relay)

**3. Status Mode Of wrong Connection**

Table1 Wrong Connection of the Tab Relay and Connector Housing (Elec)

Items	Case	Heater1 Operation (black)	Heater2 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	Heater1	Power On
5.Black and White Housing	Housing and Wire ①, ② CROSS	Off	Off	Power Off

Table2 Wrong Connection of the Tab Relay and Connector Housing (Gas)

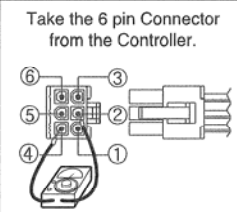
Items	Case	Heater1 Operation (black)	Heater2 operation (White)	PCB condition Of operation
1.Black and White Housing	Wire ①, ② CROSS	Off	Off	Power Off



## TEST 2 – Thermistor (Measure with power OFF)

<b>Caution</b>	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with the Ground.)
<b>Trouble Symptom</b>	<ol style="list-style-type: none"> <li>① During Diagnostic Test, tE1 and tE2 Error occur.</li> <li>② During operation, Heater would not turn off, or remains on.</li> <li>③ Difference between actual and sensed temperature is significant.</li> </ol>
<b>Measurement Condition</b>	After turning Power off, measure the resistance.

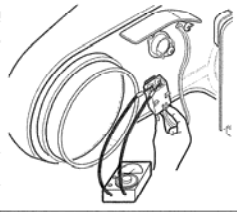


Take the 6 pin Connector from the Controller.

Short with metal to the 6 pin connector's Pin ② (Blue Wire) and Pin ④ (Orange Wire) to Controller.

**YES** →

**NO** ↓



Check if resistance is in the range of Table 1 when measuring resistance between terminals after separating Harness From Thermistor assembly Connector.

**NO** →

**YES** ↓

Check Harness-linking connector.

• Check if Control and the 6 pin connector are properly connected.  
• Replace Controller.

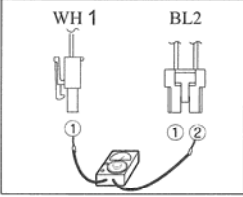
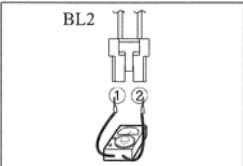
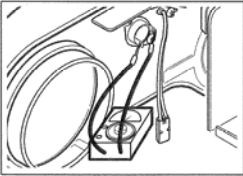
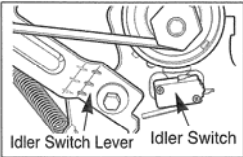
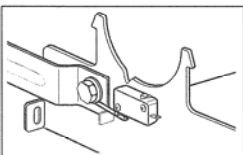
  

• Replace Thermistor.

■ Table 1. Resistance for Thermistor 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 3 – Motor

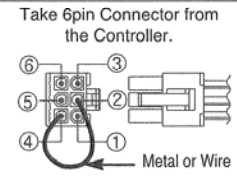
<b>Caution</b>	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)	
<b>Trouble Symptom</b>	Drum will not rotate; No fan will function; No Heater will work.	
<b>Measurement Condition</b>	Turn the Dryer's Power Off, then measure resistance.	
	<p>Is resistance below 3Ω between Connector WH① (White wire) and BL2-② (Brown wire)? ※ Measure while door is closed.</p> <p style="text-align: right;"><b>YES</b></p>	<ul style="list-style-type: none"> <li>• Replace Control. (Relay check)</li> <li>• Check Controller connector.</li> </ul>
	<p style="text-align: center;"><b>NO</b></p>	
	<p>Is resistance below 3Ω between Connector WH① (White wire) and BL2-① (Yellow wire)? ※ Measure while door is closed.</p> <p style="text-align: right;"><b>NO</b></p>	<ul style="list-style-type: none"> <li>• Check if Door flame presses door switch knob.</li> <li>• Check Door Switch.</li> <li>• Check Harness connection.</li> </ul>
	<p>Is resistance below 3Ω between Connector BL2-① (Yellow wire) and BL2-② (Brown wire)?</p> <p style="text-align: right;"><b>YES</b></p>	<ul style="list-style-type: none"> <li>• Replace Control. (Relay check)</li> <li>• Check Controller connector.</li> </ul>
	<p style="text-align: center;"><b>NO</b></p>	
	<p>Is resistance below 1Ω between terminals of Outlet Thermostat attached to blower housing?</p> <p style="text-align: right;"><b>NO</b></p>	<ul style="list-style-type: none"> <li>• Replace Outlet</li> <li>• Thermostat. (Refer to Component)</li> </ul>
	<p style="text-align: center;"><b>YES</b></p>	
	<p>Does Idle Switch attached to Motor Bracket operate Level by drum belt? (Not operating Lever is normal.)</p> <p style="text-align: right;"><b>YES</b></p>	<ul style="list-style-type: none"> <li>• Check Idler Assembly.</li> <li>• Drum Belt cuts off</li> <li>• Drum Belt takes off from Motor Pulley.</li> </ul>
	<p style="text-align: center;"><b>NO</b></p>	
	<p>Is resistance below 1Ω between Idler Switch terminals?</p> <p style="text-align: right;"><b>YES</b></p>	<ul style="list-style-type: none"> <li>• Replace Idler Switch.</li> </ul>
	<p style="text-align: center;"><b>NO</b></p>	
	<ul style="list-style-type: none"> <li>• Check Motor. (Refer to Motor Diagram &amp; Check)</li> <li>• Check if Control Connector is contacted.</li> </ul>	

## TEST 4 – Moisture Sensor

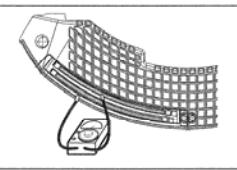
<b>Caution</b>	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)
<b>Trouble Symptom</b>	Degree of dryness does not match with Dry Level.
<b>Measurement Condition</b>	Turn the Dryer's Power Off, then measure resistance.

Take 6pin Connector from the Controller.



Short with metal to the 6 pin connector's Pin ② (Blue Wire) and Pin ④ (Orange Wire) to Controller.

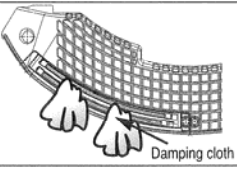


When measuring resistance in Electric load, is resistance below 1Ω?

NO

YES

- Check Electro Load and Harness Connector.
- Check Harness-linking connector.



When contacting cloth to Electro load:

1. Is the measurement within the range of Table 2 during Diagnostic Test?
2. Is the measurement within the range of Table 2 when measuring the voltage in the 6 pin connector's Pin ③ (BLUE wire) and Pin ⑤ (ORANGE wire)?

NO

YES

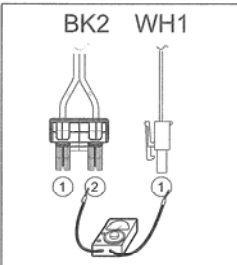
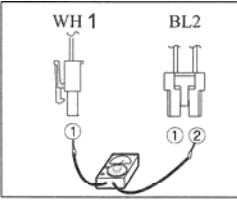
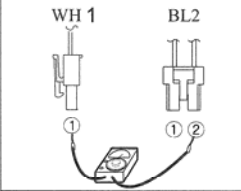
- Replace Control and Check.

Normal Condition

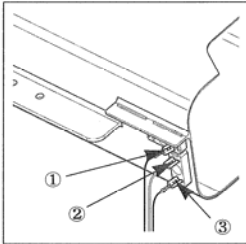
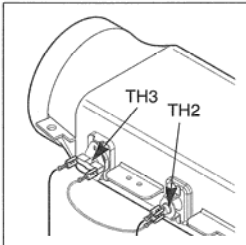
■ Table 2. IMC Ratio and Display Value / Voltage (IMC: Initial Moisture Content)

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

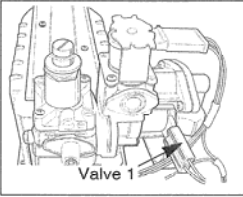
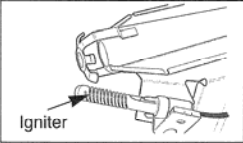
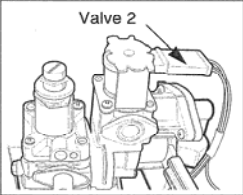
## TEST 5 – Door Switch

<b>Caution</b>	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)	
<b>Trouble Symptom</b>	Door Opening is not sensed.(During operation, when opening Door, Drum motor and Heater run continuously) Door Close is not sensed. (Drum motor will not operate. Display will flash at 0.5 second intervals.)	
<b>Measurement Condition</b>	After turning Dryer Power Off, measure resistance.	
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="display: flex; align-items: flex-start; width: 100%;"> <div style="width: 20%; text-align: center;">  </div> <div style="width: 60%; padding-left: 10px;"> <p>Measure while Door is closed. Check it resistance is below 2500 Ω between WH1-①(White wire) and BK2-② Connector WH1,BL2 after taking WH1,BL2 out from Controller.</p> <p style="text-align: right;"><b>YES</b> →</p> <p style="text-align: center; font-size: 2em;">NO</p> </div> <div style="width: 15%; padding-left: 10px;"> <p>• Door switch Check (Refer to Component testing.)</p> </div> </div> <div style="display: flex; align-items: flex-start; width: 100%; margin-top: 10px;"> <div style="width: 20%; text-align: center;">  </div> <div style="width: 60%; padding-left: 10px;"> <p>Measure while Door is open. Check it resistance is 300~60 Ω between WH1-①(White wire) and BK2-② (Black wire). Connector WH1,BL2 after taking WH1,BL2 out from Controller.</p> <p style="text-align: right;"><b>NO</b> →</p> <p style="text-align: center; font-size: 2em;">YES</p> </div> <div style="width: 15%; padding-left: 10px;"> <p>• Check Lamp. (When opening Lamp, replace then measure again.)</p> <p>• Door switch Check(Refer to Component testing.)</p> </div> </div> <div style="display: flex; align-items: flex-start; width: 100%; margin-top: 10px;"> <div style="width: 20%; text-align: center;">  </div> <div style="width: 60%; padding-left: 10px;"> <p>Measure while Door is open. Check it resistance is below 1 Ω between BL2- ①(Yellow wire) and WH1- ①(White wire) after taking Connector WH1,BL2 out from Controller.</p> <p style="text-align: right;"><b>YES</b> →</p> <p style="text-align: center; font-size: 2em;">NO</p> </div> <div style="width: 15%; padding-left: 10px;"> <p>• Door switch Check (Refer to Component testing.)</p> </div> </div> <div style="display: flex; align-items: flex-start; width: 100%; margin-top: 10px;"> <div style="width: 60%; padding-left: 10px;"> <p>Measure while Door is closed. Check it resistance is below 1 Ω between BL2- ①(Yellow wire) and WH1- ①(White wire) after taking Connector WH1,BL2 out from Controller.</p> <p style="text-align: right;"><b>NO</b> →</p> <p style="text-align: center; font-size: 2em;">YES</p> </div> <div style="width: 15%; padding-left: 10px;"> <p>• Door switch Check (Refer to Component testing.)</p> </div> </div> <div style="text-align: center; margin-top: 10px; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Check Controller. Check Harness-linking connector.</p> </div> </div>		

## TEST 6 – Heater (Electric)

<b>Caution</b>	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)	
<b>Trouble Symptom</b>	While operating, Heating will not work. Drying time takes longer.	
<b>Measurement Condition</b>	After turning Power off, measure the resistance.	
 <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 10px;"> <div style="width: 30%;"> <p>1. Is resistance between Heater terminal ① and ② below 20Ω</p> <p>2. Is resistance between Heater terminal ① and ③ below 20Ω</p> <p>3. Is resistance between Heater terminal ② and ③ below 40Ω ?</p> </div> <div style="width: 30%; text-align: right;"> <p><b>NO</b> →</p> </div> <div style="width: 30%; border: 1px solid black; padding: 5px;"> <p>• Replace Heater.</p> </div> </div> <div style="text-align: center; margin: 10px 0;"> <p><b>YES</b> ↓</p> </div>  <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 10px;"> <div style="width: 30%;"> <p>Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety Thermostat).</p> </div> <div style="width: 30%; text-align: right;"> <p><b>NO</b> →</p> </div> <div style="width: 30%; border: 1px solid black; padding: 5px;"> <p>• Replace TH2 (Safety Thermostat).</p> </div> </div> <div style="text-align: center; margin: 10px 0;"> <p><b>YES</b> ↓</p> </div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 10px;"> <div style="width: 30%;"> <p>Check if the value of measured resistance is below 1Ω between terminal TH3 (HI-Limit Thermostat).</p> </div> <div style="width: 30%; text-align: right;"> <p><b>NO</b> →</p> </div> <div style="width: 30%; border: 1px solid black; padding: 5px;"> <p>• Replace TH3 (HI-Limit Thermostat).</p> </div> </div> <div style="text-align: center; margin: 10px 0;"> <p><b>YES</b> ↓</p> </div> <div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 10px;"> <div style="width: 30%;"> <p>Check Motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑩ at RUN condition.</p> </div> <div style="width: 30%; text-align: right;"> <p><b>NO</b> →</p> </div> <div style="width: 30%; border: 1px solid black; padding: 5px;"> <p>• Check Motor and replace it.</p> </div> </div> <div style="text-align: center; margin: 10px 0;"> <p><b>YES</b> ↓</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px auto; width: 60%;"> <p>Check Controller. Check Harness-linking Connector.</p> </div>		

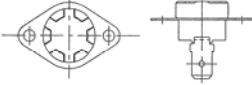
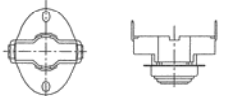
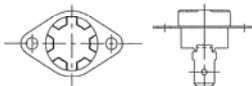
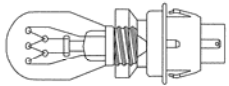
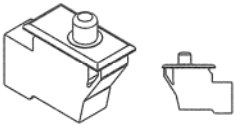
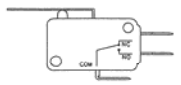
## TEST 7 – Valve (Gas)

<b>Caution</b>	When measuring power, be sure to wear insulated gloves, to avoid electric shock.	
<b>Trouble Symptom</b>	While operating, Heating will not work. Drying time takes longer.	
<b>Measurement Condition</b>	With dryer power on	
  	<p>Power On &amp; Start (Normal Cycle)</p> <p style="text-align: center;"><b>NO</b></p> <p>When measuring Valve 1 voltage, More than DC 90V?</p> <p style="text-align: center;"><b>YES</b></p> <p>Igniter operates? (after 1 min, Igniter becomes reddish)</p> <p style="text-align: center;"><b>YES</b></p> <p>When measuring Valve 2 voltage, Value is more than DC 90V? (10 sec after Igniter off)</p> <p style="text-align: center;"><b>NO</b></p> <p>When measuring terminal resistance on Valve 1 and Valve 2, Valves are more than 1.5 ~ 2.5kΩ? (Measure after Off)</p> <p style="text-align: center;"><b>NO</b></p> <p>If Valve 1 and Valve 2 are under DC 10V, Valves are Off?</p> <p style="text-align: center;"><b>YES</b></p>	<p style="text-align: right;"><b>NO</b></p> <ul style="list-style-type: none"> <li>• Check thermostat Hi limit Safety</li> </ul> <p style="text-align: right;"><b>NO</b></p> <ul style="list-style-type: none"> <li>• Check Igniter &amp; Frame detect</li> </ul> <p style="text-align: right;"><b>YES</b></p> <ul style="list-style-type: none"> <li>• Check Gas connection or Gas supply</li> </ul> <p style="text-align: right;"><b>YES</b></p> <ul style="list-style-type: none"> <li>• Change Valve</li> </ul> <p style="text-align: right;"><b>NO</b></p> <ul style="list-style-type: none"> <li>• Change Valve</li> </ul> <p style="text-align: center;"> <ul style="list-style-type: none"> <li>• Harness check</li> <li>• Controller change</li> </ul> </p>

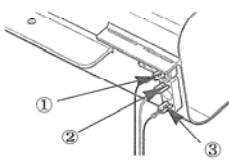
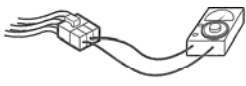
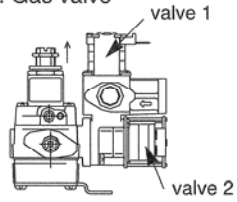
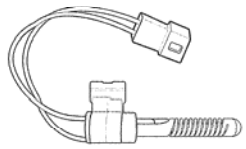
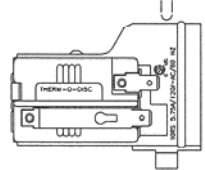
## COMPONENT TEST PROCEDURE

### COMPONENT TESTING INFORMATION

**⚠ CAUTION** When checking the Component, be sure to turn the power off, and do voltage discharge sufficiently.

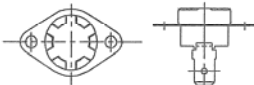
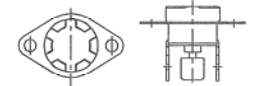
Component	Test Procedure	Check result	Remark
<p>1. Thermal cut off</p>  <p>• Check Top Marking N130</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at 266 ± 12°F (130 ± 7°C)</p> <p>② Auto reset 31°F (35°C)</p> <p>Same shape as Outlet Thermostat.</p>	<p>If thermal fuse is open must be replaced</p> <p>① Resistance value ≙ ∞</p> <p>② Continuity (250°F ↓) &lt; 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 &lt; 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 &lt; 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 opened</p> <p>① Terminal COM - NC (1-3)</p> <p>② Terminal COM - NO (1-2)</p> <p>2) Door switch pushed</p> <p>① Terminal COM - NC (1-3)</p> <p>② Terminal COM - NO (1-2)</p>	<p>① Resistance value &lt; 1Ω</p> <p>② Resistance value ≙ ∞</p> <p>① Resistance value ≙ ∞</p> <p>② Resistance value &lt; 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 &lt; 1Ω</p> <p>2. Lever push (close)</p> <p>② Resistance value ≙ ∞</p>	

## COMPONENT TEST PROCEDURE

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: 20Ω ② Resistance value: 20Ω ③ Resistance value: 40Ω	• 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: 10kΩ	• Heater case - Hi limit • Electric type
9. Motor			• See Pages 36-37
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 $\cong \infty$ ② Resistance value < 1Ω	• Gas type



## COMPONENT TEST PROCEDURE

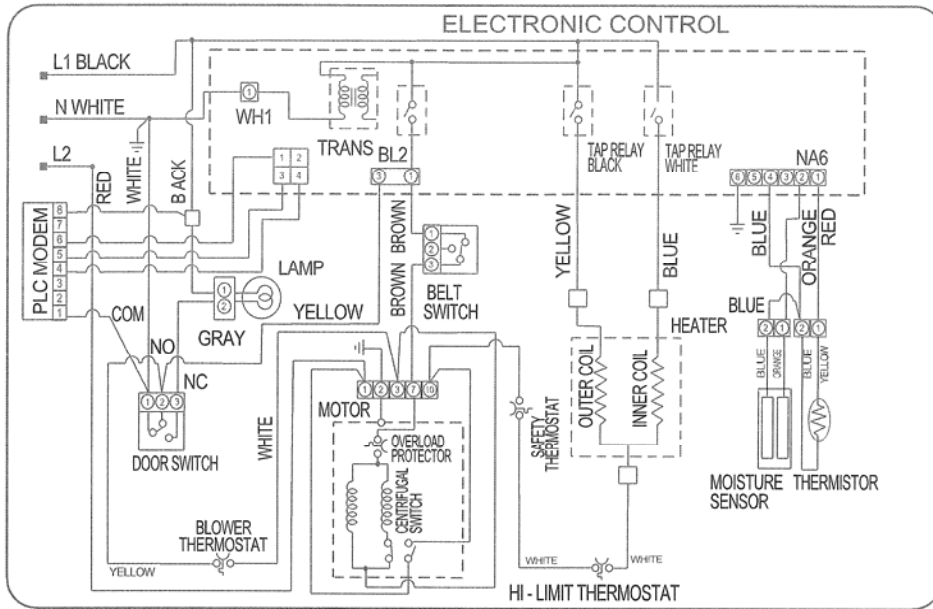
Component	Test Procedure	Check result	Remark
<p>13. Outlet Thermostat (Auto reset)</p>  <p>• Check Top Marking N95</p>	<p>Measure resistance of terminal to terminal</p> <p>① Open at <math>203 \pm 7^{\circ}\text{F}</math> (<math>95 \pm 5^{\circ}\text{C}</math>) ② Close at <math>158 \pm 9^{\circ}\text{F}</math> (<math>70 \pm 5^{\circ}\text{C}</math>)</p>	<p>① Resistance value <math>\approx \infty</math> ② Continuity <math>&lt; 1\Omega</math></p>	<ul style="list-style-type: none"> <li>• Gas type</li> <li>• Gas funnel</li> </ul>
<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 <math>212 \pm 12^{\circ}\text{F}</math> (<math>100 \pm 7^{\circ}\text{C}</math>) ② Manual reset</p>	<p>If thermal fuse is open must be replaced</p> <p>① Resistance value <math>\approx \infty</math> ② Continuity <math>&lt; 1\Omega</math></p>	<ul style="list-style-type: none"> <li>• Gas type</li> <li>• Gas funnel</li> </ul>

## **DISASSEMBLY and REPAIR**

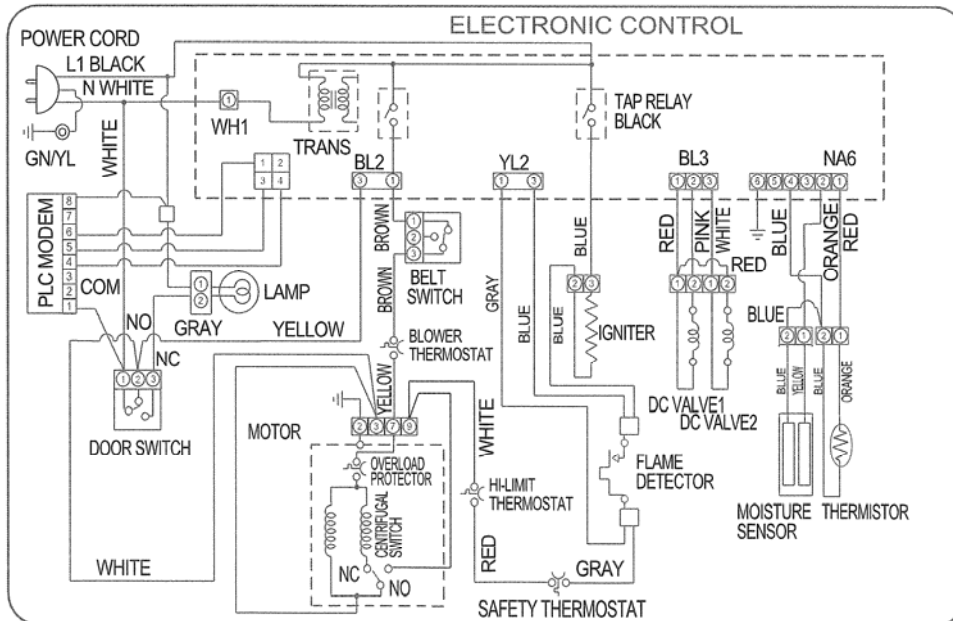
The following pages will show the instructions for disassembly, repair, replacement of parts, and re-assembly. Many times, electrical components may be tested by connecting the appropriate meter to the leads or connectors on the main PC Board. (Refer to the block wiring diagram, following.) Proper diagnosis will eliminate unnecessary labor and expedite repairs.

# BLOCK WIRING DIAGRAM

## ELECTRIC DRYER



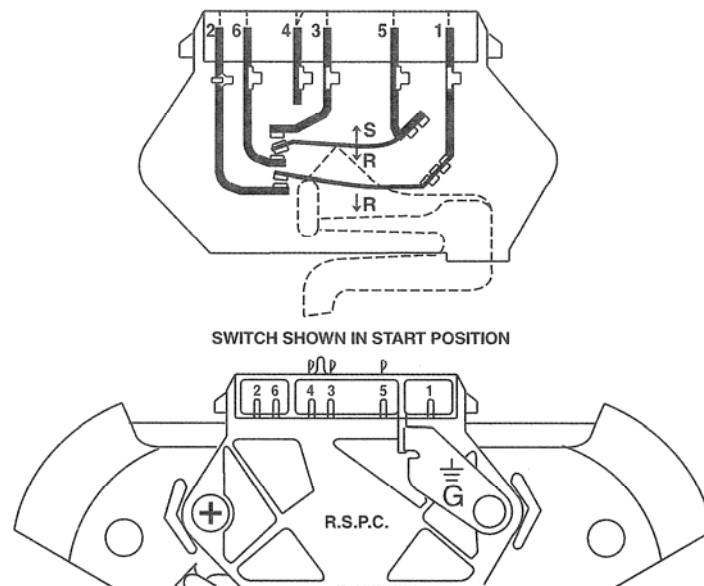
## GAS DRYER



## 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.

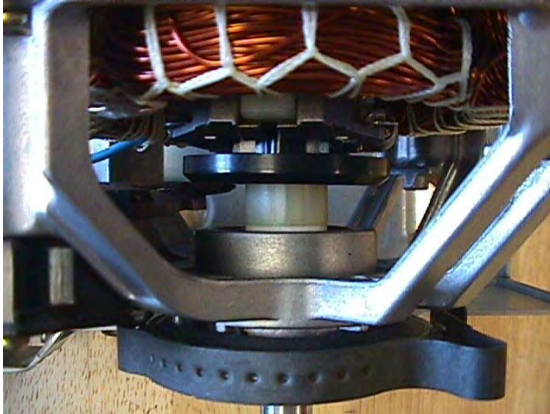
Terminal No		①	②	③	④	⑤	⑥	Remark
Mode	Resistance							
Motor STOP	2 ~ 3Ω				●	●		Motor
	≅ ∞	●	●					Heater (Electric Models)
	≅ ∞			●			●	Gas Valve (Gas Models)
Motor RUN	3 ~ 5Ω				●	●		Motor
	< 1Ω	●	●					Heater (Electric Models)
	< 1Ω			●	●	●	●	Gas Valve (Gas Models)



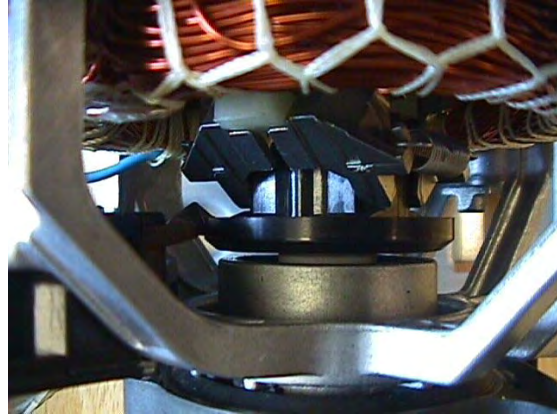
## SAFETY SWITCHES

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 the photo) to slide back toward the motor windings. This motion allows electricity to operate the heater (electric element or gas valve).

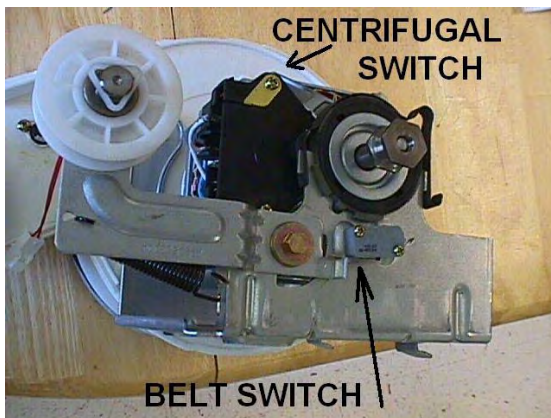
**RUN Position**



**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 bogey pulley off the belt switch. 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) to the heater.



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

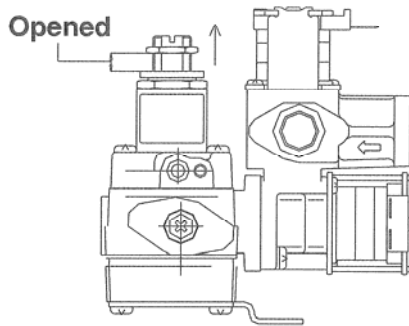
The belt switch is simple. If the belt breaks, the spring pulls the lever down and it presses the switch.

## Gas Conversion (Natural to Propane)

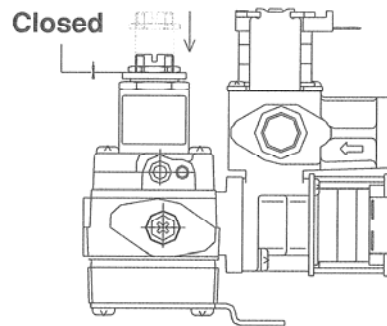
**WARNING!** Improper installation and/or adjustment of orifices and gas valves can result in fire, explosion, and suffocation. Installation and adjustment should be performed **ONLY** by a trained, licensed, and certified gasfitter.

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

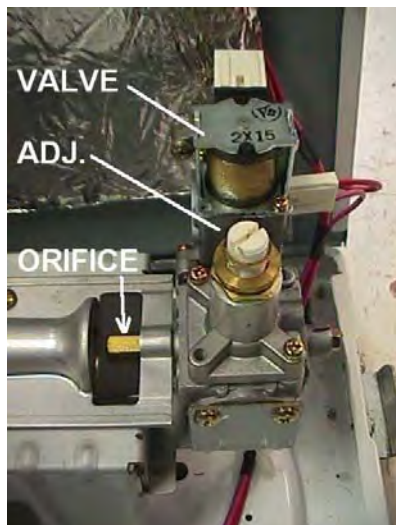
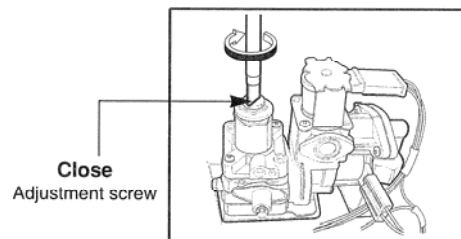
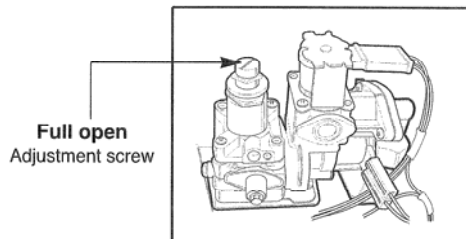
1. Close the adjustment screw.



**NATURAL GAS SETTING**



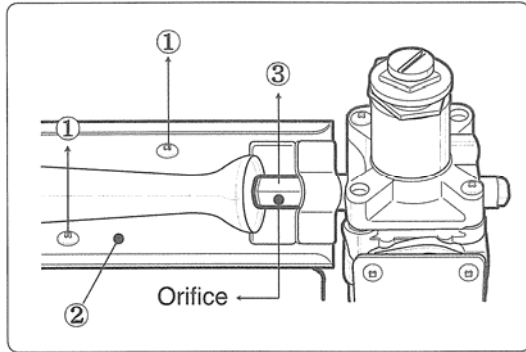
**PROPANE GAS SETTING**

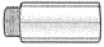



Notice there is a nut on the adjustment screw. This nut is secured to the thread with a sealing compound. The nut is pre-positioned to the place where the valve is properly adjusted for LP. Its purpose is to provide a shoulder for positioning the adjustment screw if the dryer is converted to operate using propane (LP).

## 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	

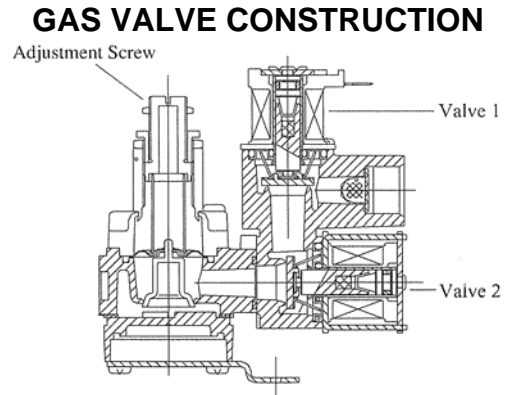
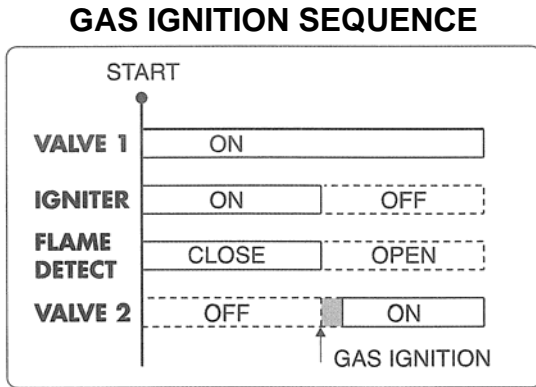
You'll have to remove the top plate and front cover to change the orifice.

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

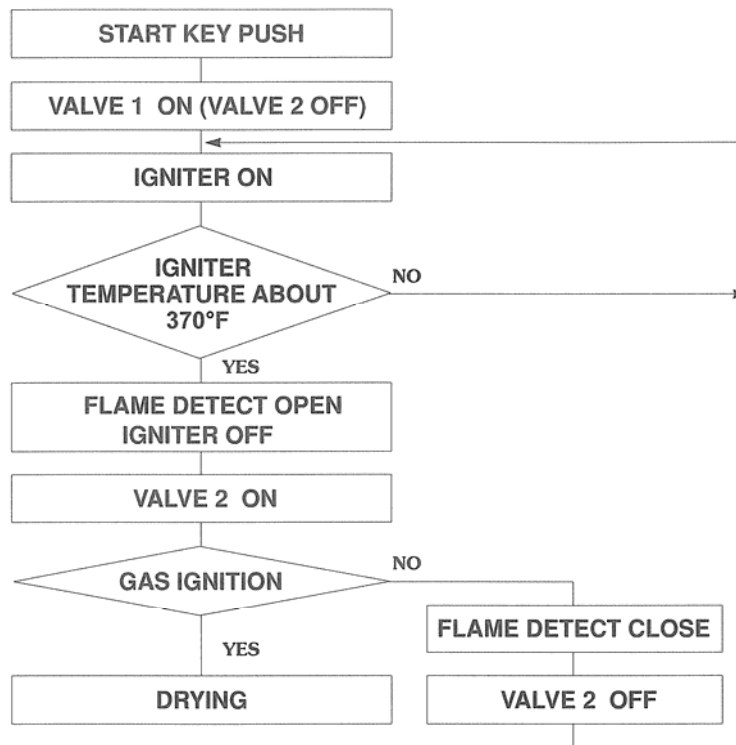
3. The conversion kit includes a propane orifice, complete instructions for making the conversion, and a label indicating the conversion kit has been installed. All conversion work, including testing and adjusting, must be completed by a trained, licensed, and certified gasfitter.

## 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 opens. 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.



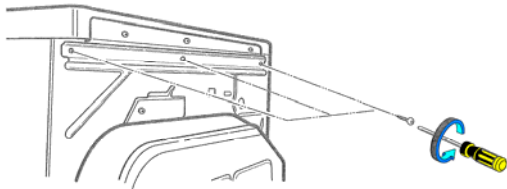
### IGNITION FLOW CHART



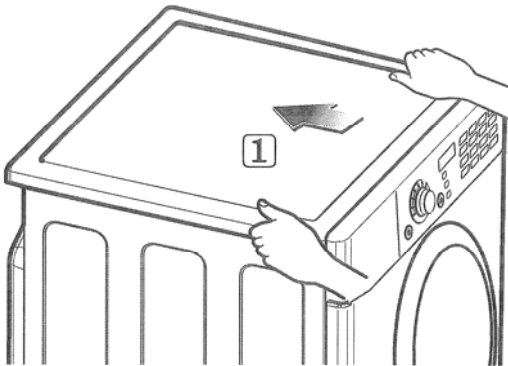


## DISASSEMBLY/REPAIR

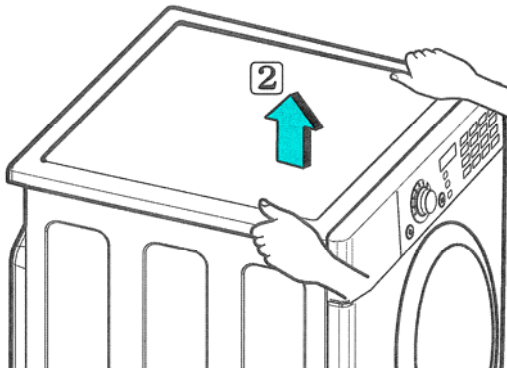
### TOP PLATE



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



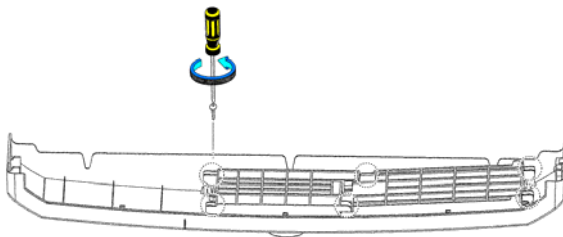
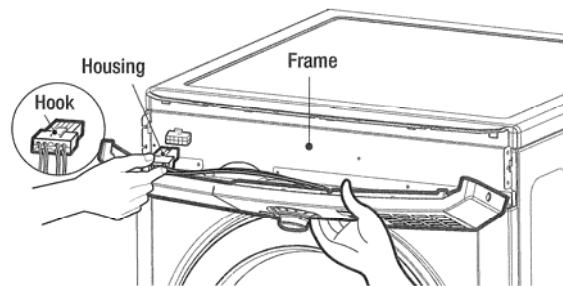
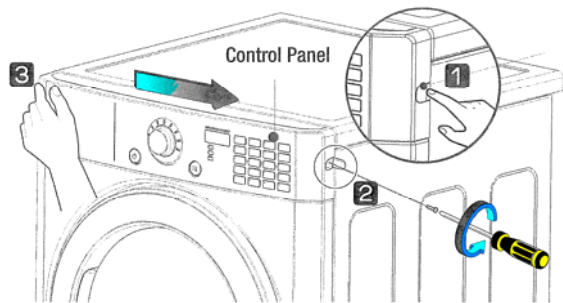
2. Push the top plate backward.



3. Lift the top plate off the machine.

## DISASSEMBLY/REPAIR

### Control Panel



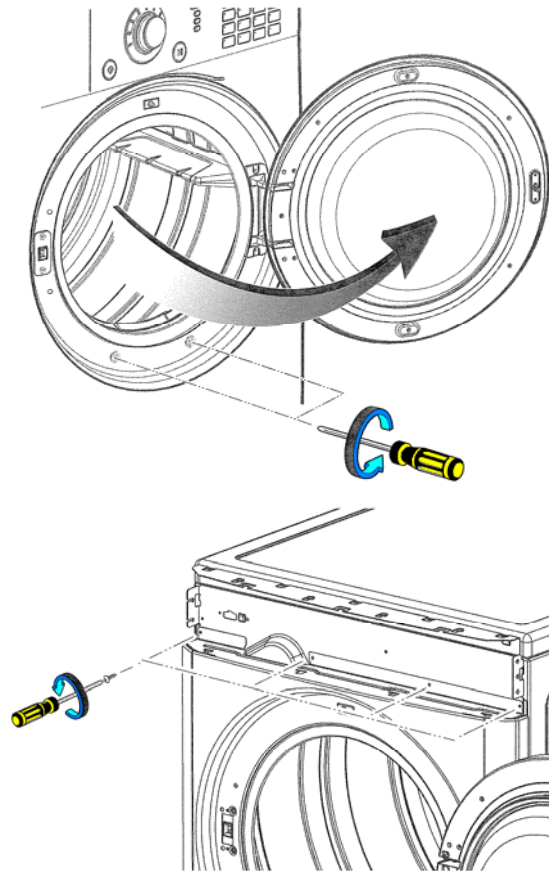
1. Open the cap covering the screw on the right end of the control panel.
2. Remove the screw.
3. Slide the control panel about an inch to the right.
4. Fold the control panel down to access the connector.
5. Press the tab and unplug the connector.

**CAUTION!** Be careful! Do not drop the control panel. Do not lay it face down and damage the knob or the surface.

6. Remove the 6 screws holding the display board to the control panel and take it off.
7. The control panel can be installed on either the top or the bottom position. Use the blank panel to cover the unused location on the dryer. Be sure to install the cover on the socket in the unused position.

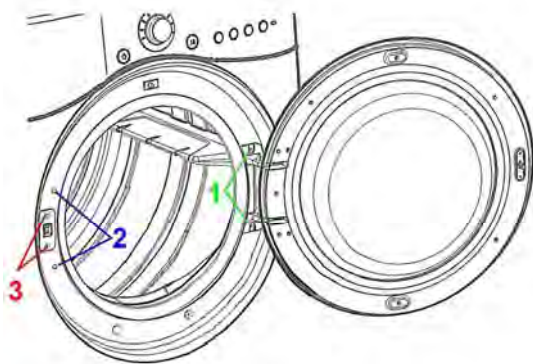
## DISASSEMBLY/REPAIR

### Front Cabinet Cover



1. Remove the control panel assembly or the blank cover on the top if the controls are installed in the lower position.
2. Open the door.
3. Remove the two screws toward the bottom of the door opening. (See drawing.)
4. Remove the four screws along the top of the front cover. (See drawing.)
5. Tip the front panel forward to disconnect the door switch before removing the panel. Set it aside on a pad or an old blanket with the door closed.

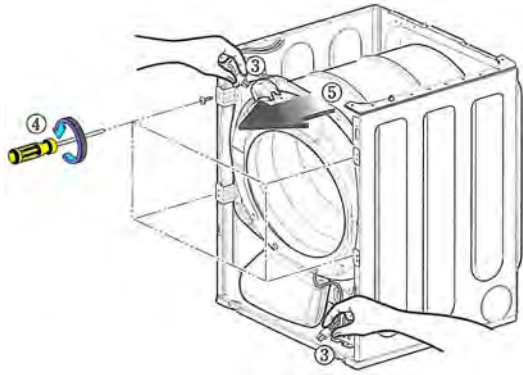
### Door Reversal



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

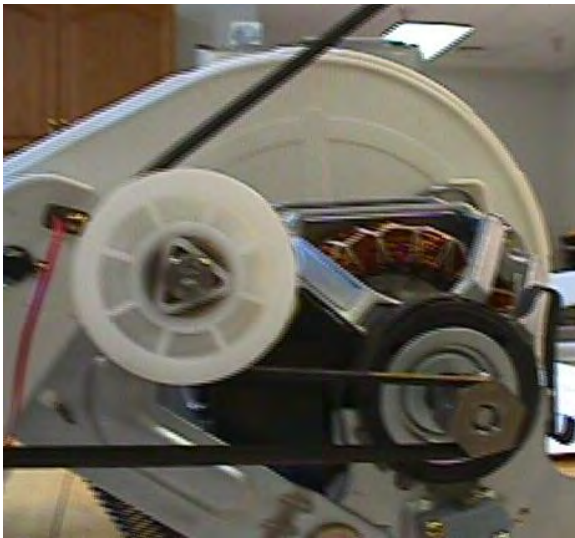
## DISASSEMBLY/REPAIR

### Drum Front



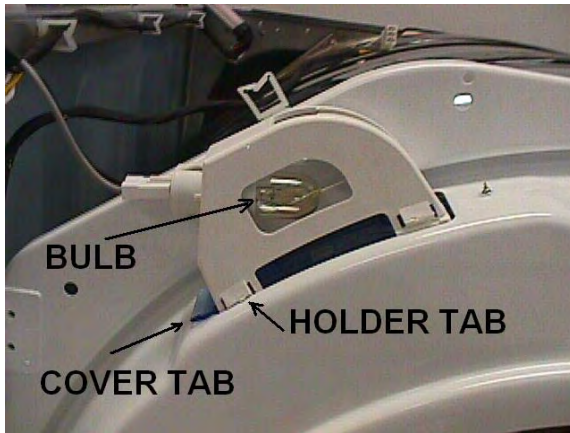
1. Remove the top plate.
2. Remove the front cover.
3. Disconnect the drum lamp and sensor harness.

### Drum Assembly and Belt



1. Remove the top plate.
2. Remove the front cover.
3. Remove the drum front.
4. Push against the pulley to relieve pressure on the belt and take it off the motor shaft. You can then lift the drum out of the cabinet. When replacing the drum, you can replace the belt on the wheels after the dryer is reassembled by reaching into the cabinet either through the front or through one of the vent openings.

## Drum Lamp



You might be able to change the bulb without removing the housing unless the bulb or socket is damaged.

1. Remove the screw holding the cover inside the dryer.
2. Slide the cover away.
3. Unscrew the bulb and replace it with an exact replacement part.



The bulb holder (socket) is pushed into the cage from the inside. The locking tabs hold it into place. The cage is also pressed into place from inside the dryer.

Removing the cage may be a little bit more difficult. You can remove the top cover and reach in beside the cage with a screwdriver to release the tabs.



Then pull the cage out in whichever direction it is easier. You'll probably have to remove the cage to get the socket out because of the holding tabs. (See photo, below.)

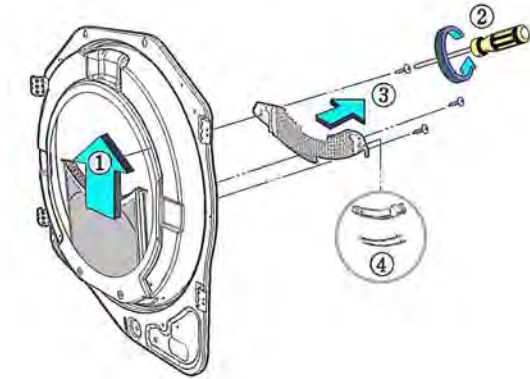
If the bulb has broken off in the socket, you can probably remove the remains with a small plier. Sometimes this can be done without removing the socket, but be careful to avoid getting glass fragments into the dryer.



The tabs on the lamp holder (socket) hold it in the cage. You'll have to press both of them and push the lamp holder into the cage.

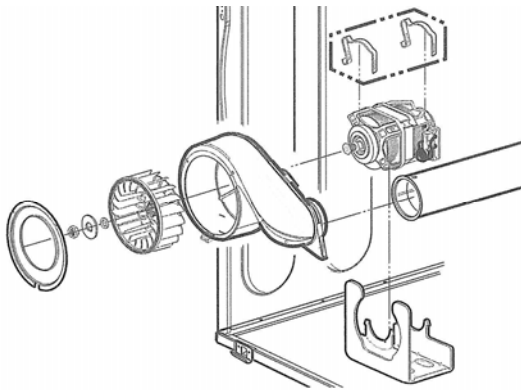
## DISASSEMBLY/REPAIR

### Filter Assembly and Moisture Sensor



1. Remove the filter.
2. Remove three screws holding the cover grid to the drum front.
3. Remove the cover grid.
4. Remove and replace the electrodes of the sensor.

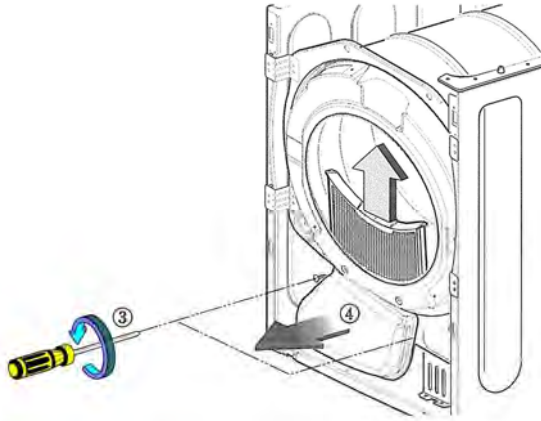
### Blower Housing



1. Remove the top plate.
2. Remove the front cover and the drum front.
3. Remove the belt and drum assembly. Set the drum aside on an open end so it won't be distorted.
4. Remove two screws and the cover (air guide).
5. Remove the bolt and washer that secure the fan (blower) to the shaft.
6. Remove the fan from the shaft and housing.
7. Remove the two motor clamps and lift out the motor. To release the clamps, press the hook end with a large screwdriver and lift it off the retaining tab.

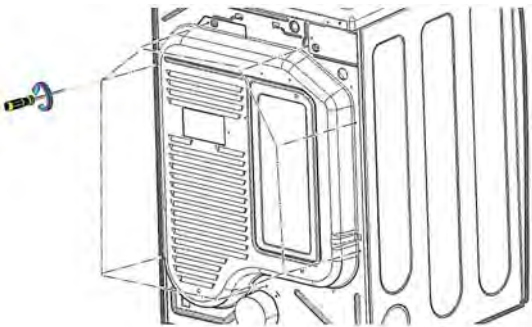
## DISASSEMBLY/REPAIR

### Air Duct



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

### Back Cover



The back cover actually comes off from the inside of the dryer, but the screws that hold it in place must be removed from the back.

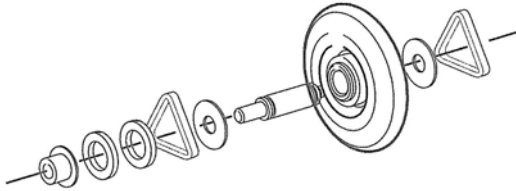
1. Remove the top plate.
2. Remove the front cover.
3. Remove the drum front.
4. Remove the drum and belt.
5. Remove the seven screws that secure the back cover.

**CAUTION!** There are sharp edges here! Use extreme caution to avoid an injury.

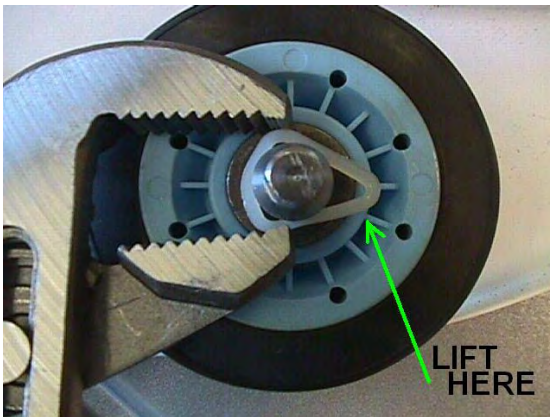
## DISASSEMBLY/REPAIR

### Rollers

Replacing the rollers is relatively simple.



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



#### 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 having to remove the shaft from the machine.

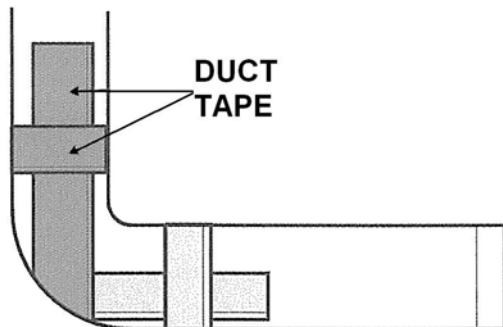
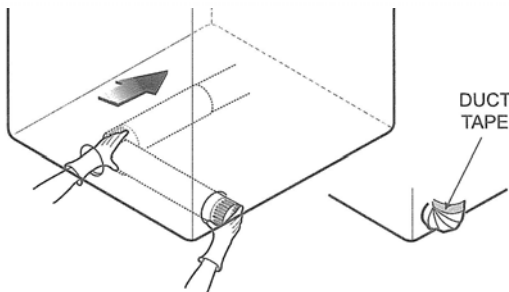
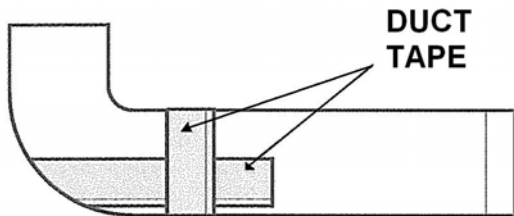
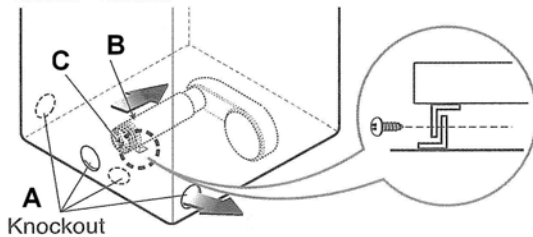
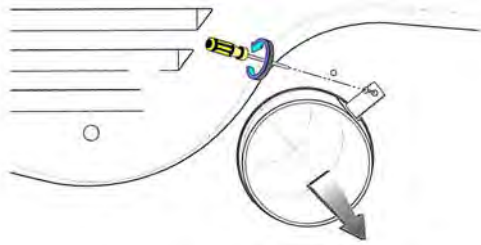


Be sure to install the small bushings. These must be between the roller and the retainer on both sides of the roller.



## DISASSEMBLY/REPAIR

### 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 and pull it out.

- 2A. Remove the knockout on the left, right\*, or bottom.

\* The right vent option is not available on gas dryers due to internal piping interference.

- 2B. Insert the replacement duct.

- 2C. Attach it with a screw.

3. Pre-assemble the elbow and the other piece of duct and secure the joint with duct tape.

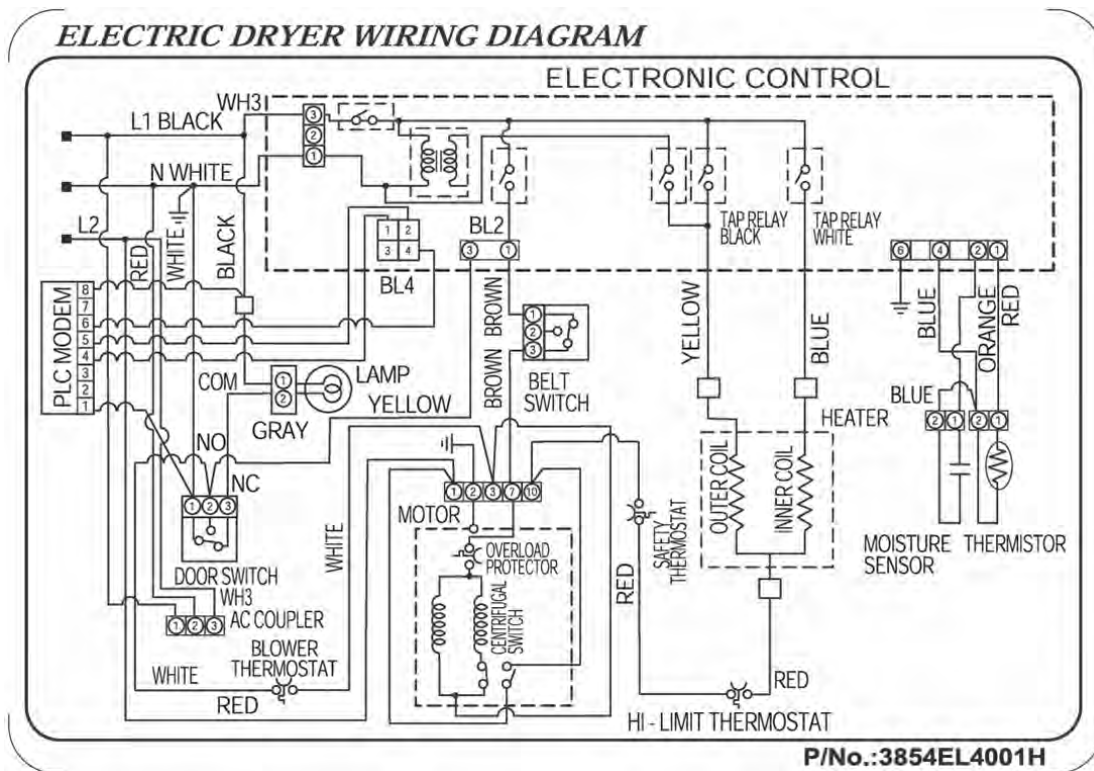
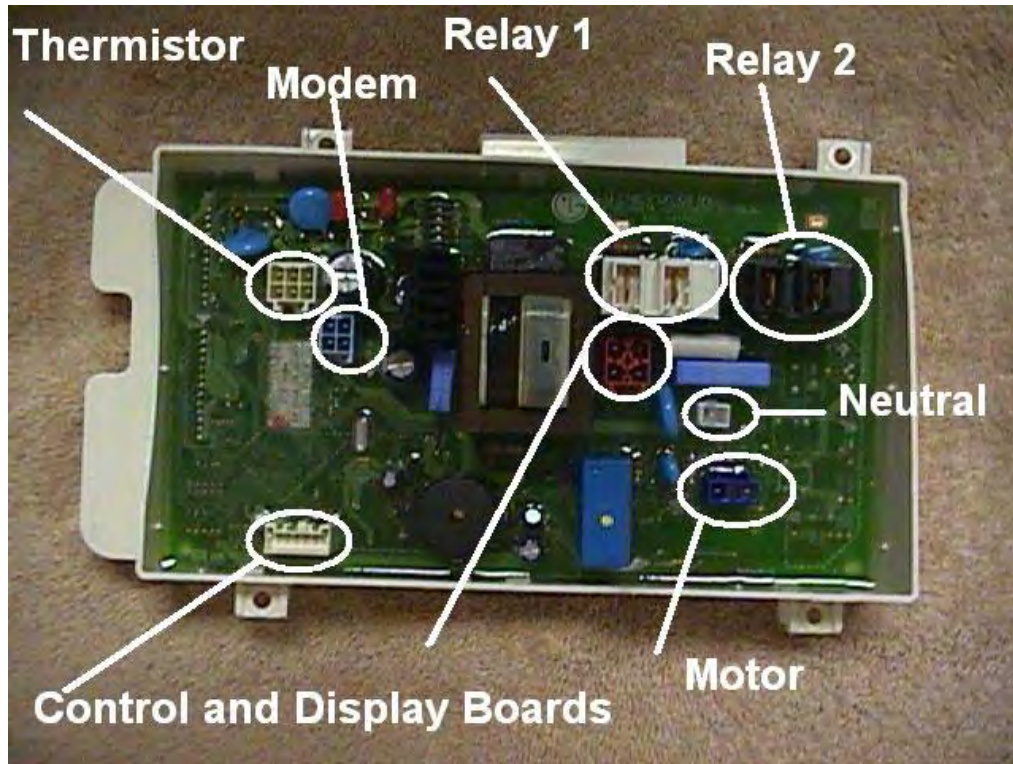
4. Insert the pre-assembled elbow into the dryer through the side vent hole and connect it to the internal duct.

5. Tear off some pieces of duct tape about six inches long and secure the internal joint.

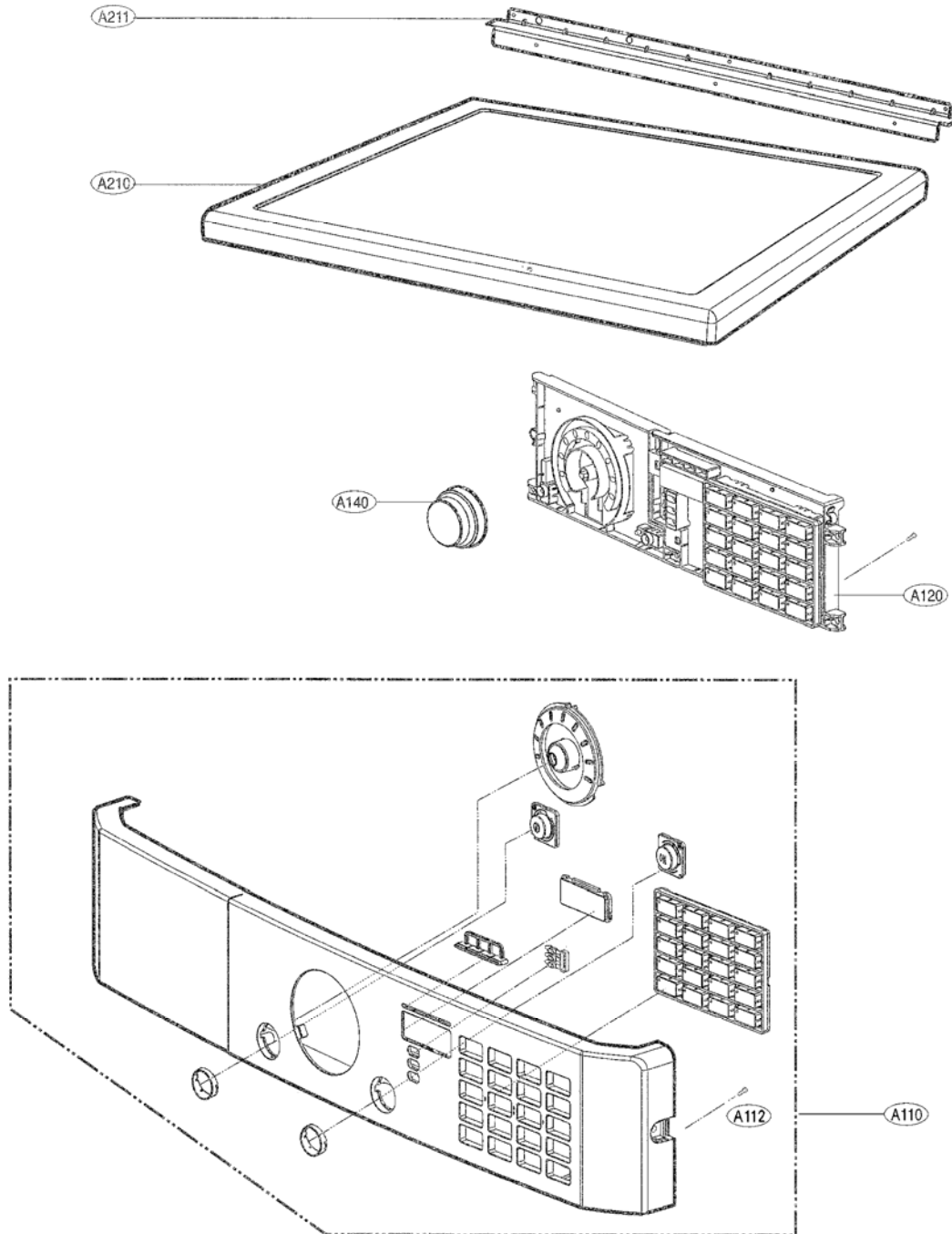
6. Connect the external vent pipe to the dryer.

**NOTE:** Be sure to use real duct tape, which is heat-proof. Some imitation products that look like real duct tape but are not heat sensitive are available and will present a fire hazard.

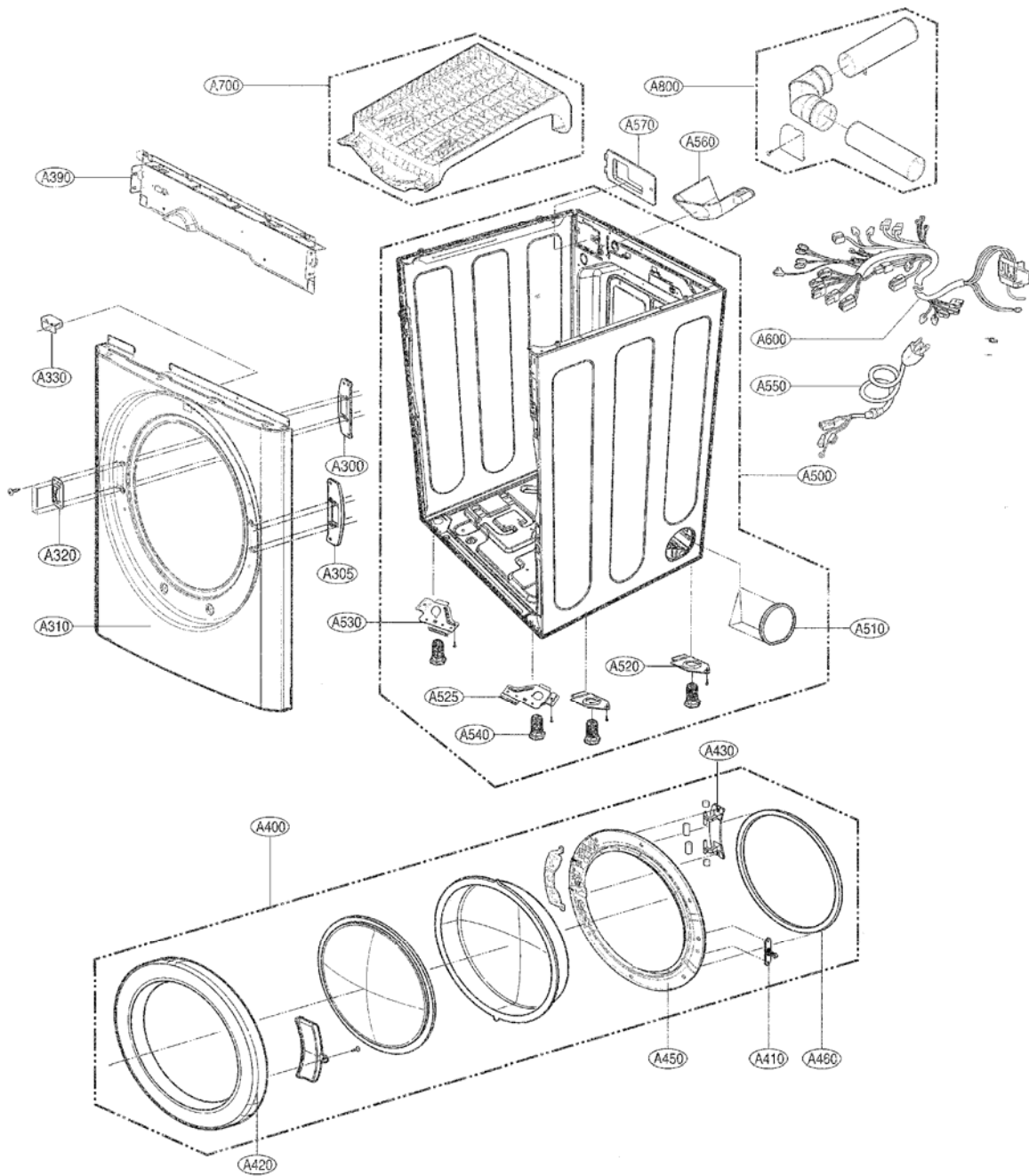
# MAIN BOARD



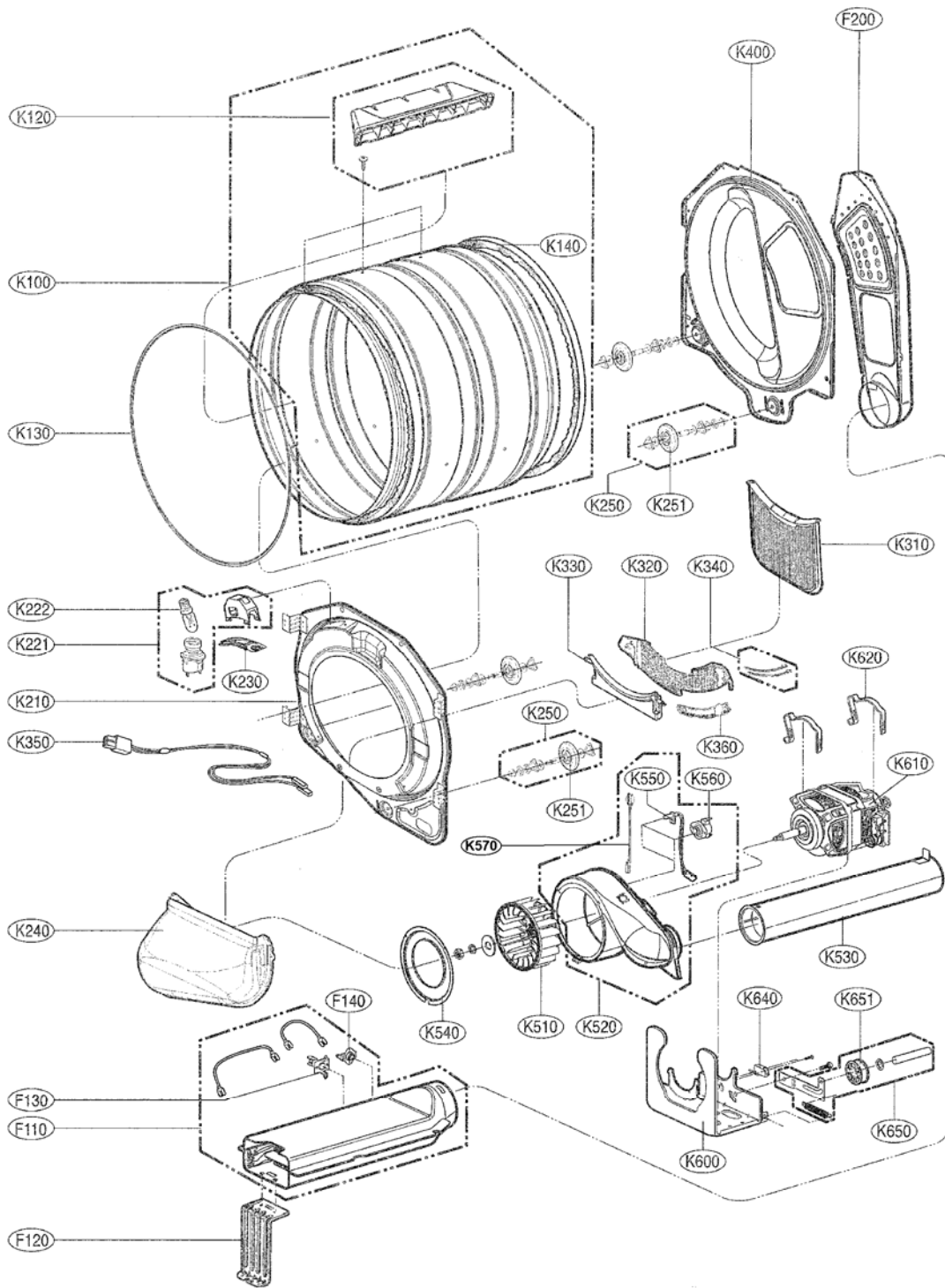
## EXPLODED VIEW



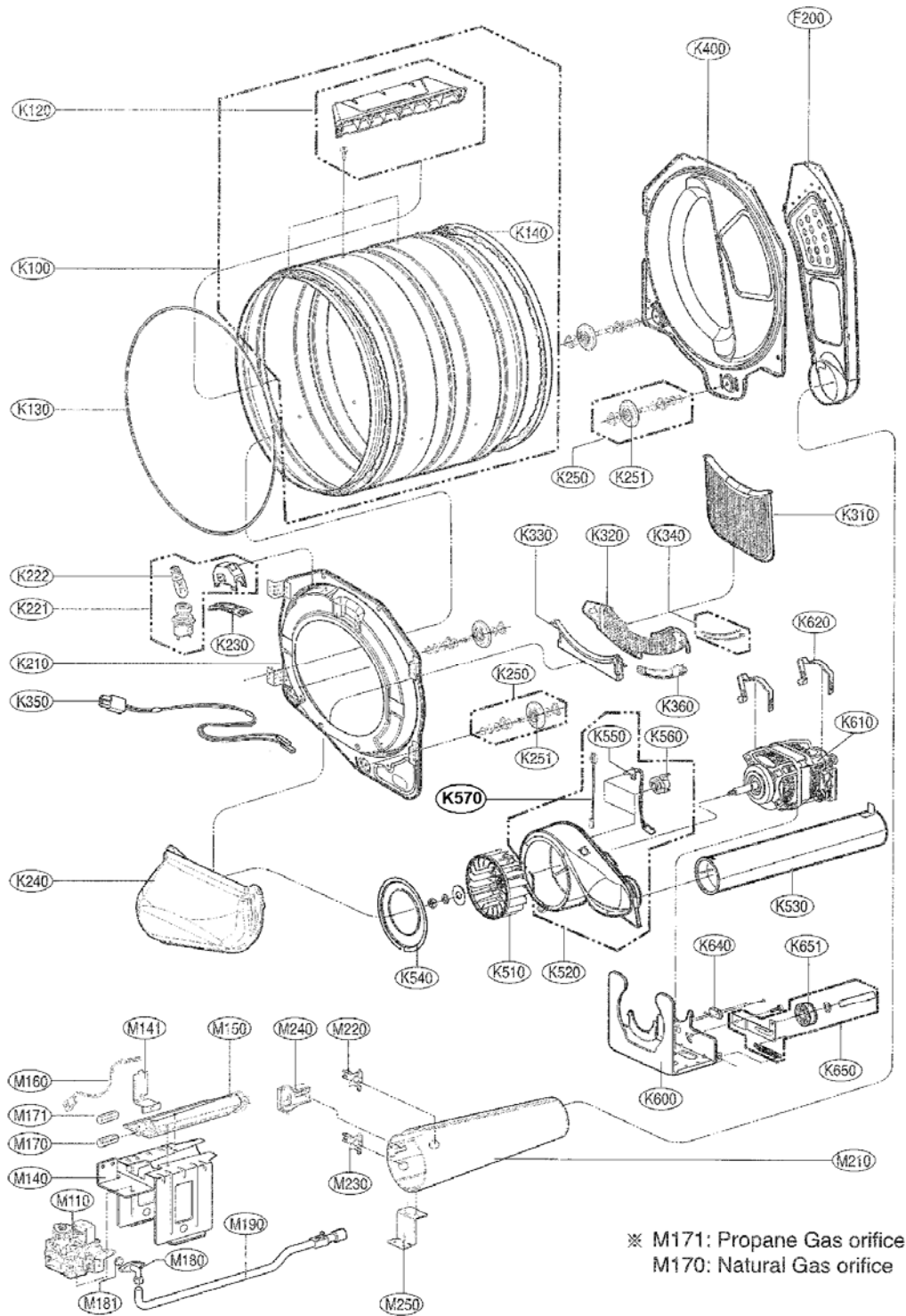
# EXPLODED VIEW - ALL



# EXPLODED VIEW - ELECTRIC



## EXPLODED VIEW - GAS



## PARTS LIST

Loc No.	DLE9577	DLG9588	Description
*001	3829EL3011A	3829EL3011A	Manual, Owners
*002	MAY31160801	3890EZ3553A	Box, Carton
*004	3828EL3005F	3828EL3005F	Manual, Service
A110	3721EL0011C	3721EL0011B	Panel Assembly, Control
A112	MBL31426502	MBL31426501	Cap, Screw
A120	6871EL2003A	6871EL1019B	PCB Assembly, Display
A130	6871EL1019A	6871EL2003A	PCB Assembly, Main
A140	4941ER3002A	4941ER3002A	Knob Assembly
A210	3457ER1006K	3457ER1006D	Plate Assembly, Top
A211	3300EL2001A	3300EL2001A	Plate, Upper
A300	4810EL3006A	4810EL3006A	Bracket, Hinge (L)
A305	4810EL3006B	4810EL3006B	Bracket, Hinge (R)
A310	3551EL0011B	3551EL0011B	Cover Assembly, Cabinet
A320	4027EL1001A	4027EL1001A	Locker Assembly
A330	6601EL3001A	6601EL3001A	Switch, Micro
A390	ADV30755801	ADV30755201	Frame Assembly
A400	3581EL0002A	3581EL0002A	Door Assembly
A410	4026EL3007A	4026EL3007A	Locker, Hook
A420	3212EL1014A	3212EL1014A	Frame, Door (Outer)
A430	4774EL2001A	4774EL2001A	Hinge
A450	3212EL1005B	3212EL1005B	Frame, Door (Inner)
A460	4986EL2004A	4986EL2004A	Gasket
A500	3091EL0003H	3091EL0003N	Cabinet Assembly
A510	5006EL3001C	5006EL3001D	Cap, Dryer Vent Option (2)
A520	4810EL3001A	4810EL3001A	Bracket, Base
A525	4810EL3009A	4810EL3009A	Bracket, Base
A530	4810EL3009B	4810EL3009B	Bracket, Base
A540	4778EL3001A	4778EL3001A	Leg (4)
A550	- - -	6411ER1005B	Power Cord Assembly (110 V, Gas)
A560	3550EL3007A	- - -	Cover, Guide
A570	3550EL3002A	- - -	Cover, Safety
A600	6877EL1022A	6877EL1023A	Main Wiring Harness
A700	3750EL1001B	3750EL1001B	Rack
A800	383EEL9001B	383EEL9001B	Side Vent Kit

<b>Loc No.</b>	<b>DLE9577</b>	<b>DLG9588</b>	<b>Description</b>
F110	5301EL1001A		Heater Assembly
F120	4810EL1007A		Bracket, Heater
F130	6931EL3003D		Thermostat
F140	6931EL3001E		Thermostat Assembly
F200	5209EL1001C	5209EL1001E	Duct Assembly
K100	3045EL1002E	3045EL1002E	Drum Assembly
K120	4432EL1002B	4432EL1002B	Lifter
K130	4400EL2001A	4400EL2001A	Belt, Poly V
K140	4036EL3001A	4036EL3001A	Gasket
K210	3044EL1001B	3044EL1001B	Tub, Drum (Front)
K221	6913EL3002C	6913EL3002C	Lamp Assembly
K222	6913EL3001A	6913EL3001A	Lamp, Incandescent
K230	3550EL2001A	3550EL2001A	Cover, Lamp
K240	5209EL1002A	5209EL1002B	Duct Assembly
K250	4581EL2002A	4581EL2002A	Roller Assembly (4)
K251	4581EL3001A	4581EL3001A	Roller (4)
K310	5231EL1003B	5231EL1003B	Filter Assembly, Lint
K320	3550EL1006B	3550EL1006B	Cover, Guide
K330	4974EL1003B	4974EL1003B	Guide, Filter
K340	6500EL3001A	6500EL3001A	Sensor
K350	6631EL3003B	6631EL3003B	Single Harness
K351	6631EL1005A	6631EL1005A	Cable, Assembly
K360	4930EL2004B	4930EL2004B	Holder
K400	3044EL0002B	3044EL0002B	Tub, Drum (Rear)
K510	5835EL1002A	5835EL1002A	Casing Assembly
K520	3661EL1001F	3661EL1001F	Housing Assembly, Blower
K530	5209EL1006A	5209EL1006A	Duct Assembly
K540	4975EL3001A	4975EL3001A	Guide Assembly
K550	6323EL2001B	6323EL2001B	Thermistor, NTC
K560	6931EL3002A	6931EL3002A	Thermostat
K570	6501EL2001A	6501EL2001A	Sensor (Exhaust duct)
K600	4810EL1002A	4810EL1002A	Bracket, Motor
K610	4681EL1008A	4681EL1008A	Motor Assembly, AC, Drum
K620	4860EL3001A	4860EL3001A	Clamp (2)
K640	3W40025D	3W40025D	Switch, Micro
K650	4561EL3002A	4561EL3002A	Pulley Assembly, Motor
K651	4560EL3001A	4560EL3001A	Pulley, Idle



<b>Loc No.</b>	<b>DLE9577</b>	<b>DLG9588</b>	<b>Description</b>
M110		5221EL2002A	Valve Assembly, Gas
M140		4974EL1001A	Guide, Burner
M141		4810EL3002A	Bracket, Base
M150		5201EL3001A	Pipe Assembly
M160		5318EL3001A	Igniter
M170		4948EL4001B	Orifice, Natural Gas
M171		4948EL4002B	Orifice Kit, Propane Conversion
M180		4932EL4001A	Connector, Pipe
M181		4036EL3002A	Gasket
M190		5201EL2001A	Pipe Assembly
M210		3016EL1001A	Funnel
M220		6931EL3004B	Thermostat Assembly
M230		6931EL3003C	Thermostat
M240		6501EL3001A	Sensor Assembly
M250		4980EL3001A	Supporter, Holder





