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ELECTRIC & GAS DRYER SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY IN ORDER TO PROPERLY DIAGNOSE PROBLEMS AND TO SAFELY PROVIDE QUALITY SERVICE ON THESE DRYERS.

MODEL: Electric Gas

DLEX3885* DLGX3886* DLEX3875* DLGX3876*



P/No.: MFL62119907

JAN. 2010 PRINTED IN KOREA

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.

A 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.

IMPORTANT

Electrostatic Discharge (ESD)
Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

■ Use an anti-static wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance.

- OR -

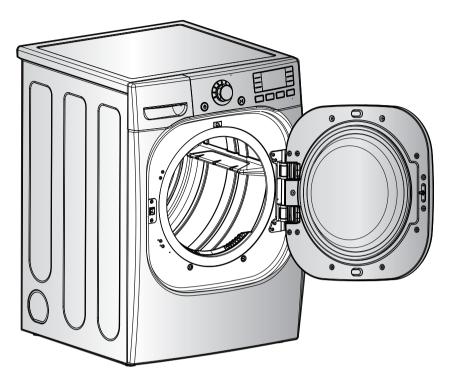
Touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.

- Before removing the part from its package, touch the anti-static bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by edges only.
- When repackaging failed electronic control assembly in anti-static bag, observe above instructions.

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SPECIFICATIONS



■ Name: Electric and Gas Dryer

■ Power supply: Please refer to the rating label regarding detailed information.

■ Size: 27 X 30 X 38.7 (inch)

■ Dryer capacity: IEC 7.4 cu.ft.

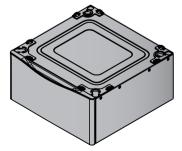
■ Weight: 136(lbs)

Specifications are subject to change by manufacturer.

- ACCESSORIES







Dryer rack (1 each)

Stacking kit (1 each)
Purchased Separately

Pedestal (1 each) Purchased Separately

See page 6

See page 7

See page 8

ITEM			DLEX3885* DLGX3886* DLEX3875* DLGX3876*	REMARK
	Color		Blue White / Stainless Silver / Vintage Gold	
Material & Finish	-	Top Plate	Porcelain	
1 1111011		Door Trim	Chromate	
POWER	R SU	PPLY	120V/240V 60Hz (26A)	
		MOTOR	250W (4.5A)	AC 120V
ELECTRICI	ΤΥ	HEATER	5400W (22.5A)	AC 240V (ELECTRIC MODEL)
CONSUMPTI	ON	LAMP	15 W (0.2A)	AC 120V
		GAS VALVE	13 W (0.11A) x 2	AC 120V (GAS MODEL)
		AG HEATER	1100W (9.2A)	AC 120V (STEAM MODEL)
		DC, PUMP	2.4W (0.15A)	DC 9V (STEAM MODEL)
CONTR	ROL	TYPE	Electronic	
DRUM (CAP	ACITY	7.4 cu.ft.	AC 240V (ELECTRIC MODEL)
Weight (lbs	s) - N	let/Gross	136 / 155.7	
No. of	Prog	rams	9	
No. of D	ry O	ptions	5	
No. of Tempe	eratu	re Controls	5	
No. of [Dry L	.evels	5	
Soun	ıd lev	rels	5	
0		Moisture	Available	Electrode sensor, Dual Sensor
Sensor	Te	mperature	Available	Thermistor, Dual Sensor
Revers	Reversible Door		Available	
Drum			Stainless Steel	
Dryer Rack		ck	Available	
Chil	Child Lock		Available	
Interi			Available	
Product	•	•	27" x 42 3/4" x 28 1/3"	
Packing	y (Wx	(HxD)	29 1/2" x 44 3/4" x 30 3/4"	

FEATURES AND BENEFITS

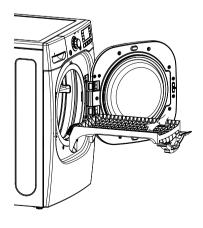


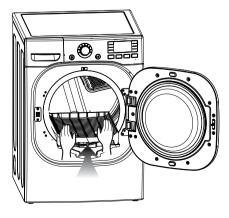
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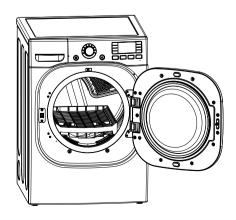
INSTALLATION INSTRUCTIONS

Dryer Rack Installation Instructions

- Open the door.
 Hold the dryer rack with both hands.
- Put the dryer rack into the drum
- Check and be sure that the front of the rack is properly seated behind the lint filter.







Stacking Kit Installation Instructions

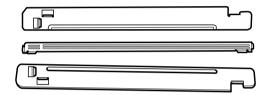
To ensure safe and secure installation, please observe the instructions below.

WARNING

Do not attempt this alone!

At least two people are required to lift and position the dryer on top of a washing machine!

Failure to heed this warning can result in serious physical injury and damage to the appliance.

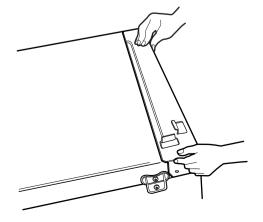


Stacking kit

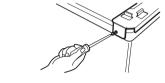
- Place the washer firmly on a stable, even and solid floor as product installation instructions describe in the owner's manual.
- Peel the protective paper from the tape on the side bracket.



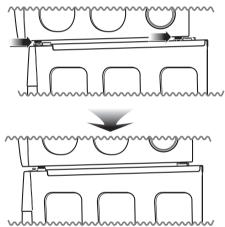
Fit the side bracket firmly to the side of the top plate by attaching the double-faced tape to the top plate as picture shown.



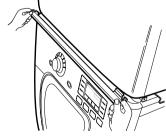
Secure the side bracket to the washer with a screw on the back of the bracket. Repeat Steps 2, 3, and 4 for the other side.



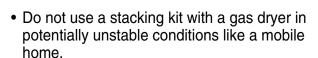
Place the dryer on top of the washer by placing the legs as shown. Be careful not to pinch fingers between the washer and dryer. Slide the dryer back against the stop on the side rail.



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



Attach the front bracket to the side rails with a screw on each side.



Pedestal Installation Instructions

The pedestal accessory includes:

- Drawer divider (1)
- Wrench (1)
- Screws (18) †
- T-clips (4) ††



† Dryer installation only uses 8 screws †† For dryer only



- Phillips-head screwdriver
- Wrench (supplied)



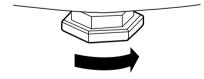
To ensure safe and secure installation, please thoroughly follow the instructions below.

A WARNING

- · Incorrect installation can cause serious accidents.
- The appliances are heavy. Two or more people are required when installing the pedestal. There is a risk of serious back injury or other injuries.
- Do not allow children to play in or on the drawer.
 There is a risk of suffocation or injury.
- Do not step on the handle. There is a risk of serious injury.
- If appliances are already installed, disconnect them from all power, water, or gas lines and from draining or venting connections. Failure to do so can result in electrical shock, fire, explosion, or death.
- · When installing, gloves must be put on.

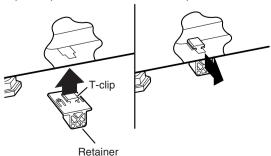
Make sure the leveling feet of the dryer are fully retracted.

NOTE: The appliance and pedestal assembly must be placed on a solid, sturdy, level floor for proper operation.



Retract fully

Insert the T-clip of the 4 retainers into the dryer base as shown. Press up on the back of the clip and pull outward to lock into place.



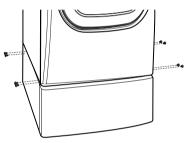
Place the dryer on the pedestal. Make sure the front and back feet are in the correct positions. The dryer feet will fit into the innermost positions as shown.



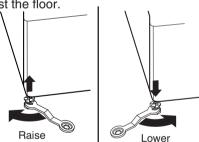
Make sure the screws on the pedestal align with the holes in the retainers, then install 4 screws on each side to securely attach the appliance to the pedestal.

NOTE: If the screws are not installed properly, noise and vibration may result.

Move the appliance to the desired location.



Loosen the locknuts on all 4 leveling feet of the **pedestal** until you can turn them with the wrench. Turn clockwise to raise or counterclockwise to lower until the pedestal is level and all 4 feet are solidly against the floor.

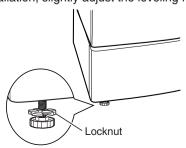


Securely tighten all locknuts by hand.

NOTE: Noise and vibration may result if locknuts are not tightened.

Be sure to connect the appliances to all water, power, or gas lines and draining or venting connections before operation.

If there is excessive vibration during the first operation after installation, slightly adjust the leveling feet.



Electric Dryer Only

Review the following options to determine the appropriate electrical connection for your home:



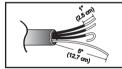
4-wire receptacle (NEMA type14-30R)

Use the instructions under option 1 if your home homehas a 4-wire receptacle (NEMA type 14-30R).



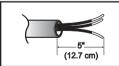
3-wire receptacle (NEMA type10-30R)

Use the instructions under option 2 or 3 if your home has a 3-wire receptacle (NEMA type 10-30R). Use option 2 if local codes and ordinances permit the connection of a chassis ground to the neutral connector. If this is not permitted, use option 3.



4-wire direct

If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box



3-wire direct

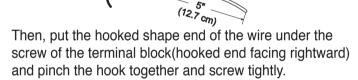
If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box

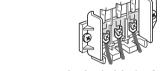
4-wire connection: Direct wire

Important: Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations,(2) mobile homes, and (3) recreational vehicles, and(4) areas where local codes prohibit grounding through the neutral conductor

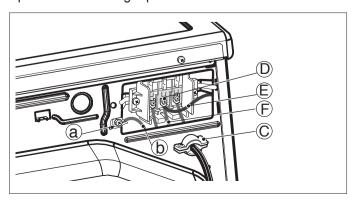
Prepare minimum 5ft(1.52m) of length in order for dryer to be replaced.

First, peel 5 inch (12.7cm) of covering material from end. Make a 5 inch of ground wire bared. After cutting 1½ inch (3.8cm) from 3 other wires. peel insulation back 1inch (2.5cm). Make ends of 3 wires a hook shape.





- Connect neutral wire(white) of power cord to center terminal block screw.
- 2. Connect red and black wire to the left and right terminal block screws.
- 3. Connect ground wire(green) of power cord to external ground screw and move neutral ground wire of appliance and connect it to center screw.
- 4. Make sure that the strain relief screw is tightened. and be sure that all terminal block nuts are on tight and power cord is in right position.

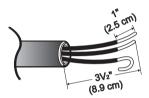


3-wire connection: Direct wire

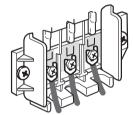
Important: Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, and (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor.

Prepare minimum 5ft(1.52m) of length in order for dryer to be replaced.

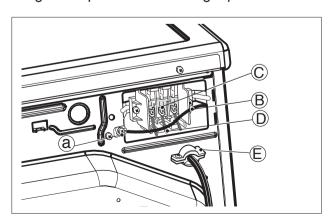
First, peel 3 ½ inch (8.9cm) of covering material from end and bare 1 inch from the ends.



Then, put the hooked shape end of the wire under the screw of the terminal block(hooked end facing rightward) and pinch the hook together and screw tightly.

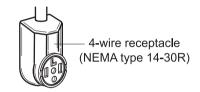


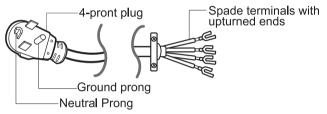
- 1. Connect neutral wire(white) of power cord to center terminal block screw.
- 2. Connect red and black wire to the left and right terminal block screws.
- 3. Make sure that the strain relief screw is tightened and be sure that all terminal block nuts are on tight and power cord is in right position.

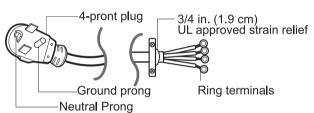


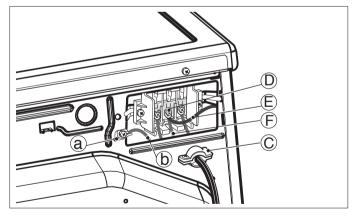
Option 1: 4-wire connection with a Power supply cord.

 If your local codes or ordinances do not allow the use of a 3 wire connection, or you are installing your dryer in a mobile home, you must use a 4-wire connection.





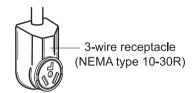


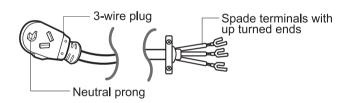


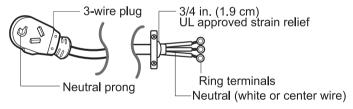
- 1. Connect the neutral wire (white) of the power cord to the center terminal block screw.
- 2. Connect the red and black wires to the left and right terminal block screws.
- 3. Connect the ground wire (green) of the power cord to the external ground screw. Remove the neutral ground wire of appliance and connect it to center screw.
- 4. Make sure that the strain relief screw is tightened and that all terminal block nuts are tight and the power cord is in the right position.

Option 2: 3-Wire Connection with a Power Supply Cord

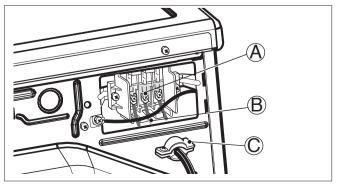
If your local codes or ordinances permit the connection of a frame-grounding conductor to the neutral wire, use these instructions. If your local codes or ordinances do not allow the connection of a frame-grounding conductor to the neutral wire, use the instructions under **Option 3: Optional**3-wire connection.





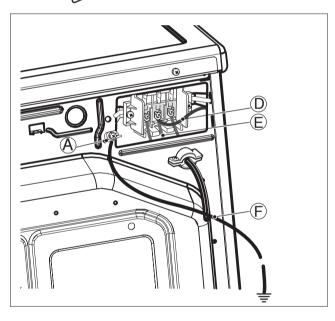


- Connect the neutral (white or center) wire (B) to the center, silver colored, screw (A) and tighten securely.
- 2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
- 3. Tighten the strain relief screws (C) securely.



Option 3: Optional 3-wire connection.

 If your local codes or ordinances do not allow the connection of a frame-grounding conductor to the neutral wire, use the instructions under this section.

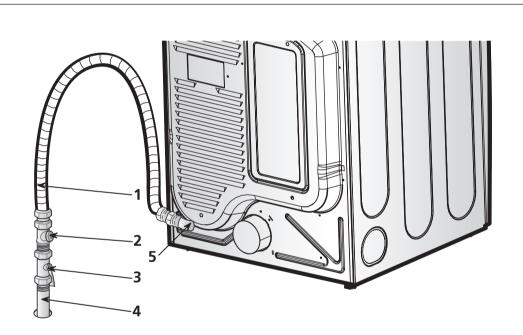


- Remove the appliance ground wire (D) (green) from the external ground connector screw and reconnect it, together with the center, white, neutral wire (E) to the center, silver colored, terminal block screw.
- 2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
- 3. Tighten the strain relief screws securely.
- 4. Connect an independent ground wire (F) from the external ground connector screw to a proper ground. (The ground wire must be long enough to allow the appliance to be moved, if necessary, for service or cleaning.)

3-2. Connect Gas Supply Pipe (Gas Dryer ONLY)

For further assistance, refer to section on Gas Requirements.

- Make certain your dryer is equipped for use with the type of gas in your laundry room. Dryer is equipped at the factory for Natural Gas with a ³/₈" NPT gas connection.
- 2. Remove the shipping cap from the gas connection at the rear of the dryer. Make sure you do not damage the pipe thread when removing the cap.
- 3. Connect to gas supply pipe using a new flexible stainless steel connector.
- 4. Tighten all connections securely. Turn on gas and check all pipe connections (internal and external) for gas leaks with a non-corrosive leak detection fluid.
- 5. For LP (Liquefied Petroleum) gas connection, refer to section on Gas Requirements.



- New Stainless Steel Flexible Connector Use only if allowed by local codes (Use Design A.G.A. Certified Connector)
- 2 1/8" NPT Pipe Plug (for checking inlet gas pressure)
- 3 Equipment Shut-Off Valve-Installed within 6' (1.8 m) of dryer
- 4 Black Iron Pipe Shorter than 20' (6.1 m) - Use ³/8" pipe Longer than 20' (6.1 m) - Use ¹/2" pipe
- 5 3/8" NPT Gas Connection

4

DRYER CYCLE PROCESS

		Default			Conditions of operation and termination				
	Cycle		Dry	Display	Dry	ing	Coo	oling	Wrinkle care
			Level	time	Electro- sensor	Temp- Control	Default time	Temp- Control**	Time
	STEAM FRESH™	HIGH MEDIUM	Off	20min	Saturation	66±4°C	5min	45 ±5°C	
	STEAM SAINTARY™	HIGH	Off	39min	Saturation	68±4°C	5min	45 ±5°C	
	ANTIBACTE- RIAL	HIGH	Very Dry	70min	Saturation	68±4°C	5min	45 ±5°C	
Sensor	BULKY / LARGE	MEDIUM	Normal Adjustable	55min	Saturation	60±4°C	5min	45 ±5°C	3Hr
Dry *	HEAVY DUTY	HIGH	Normal Adjustable	54min	Saturation	68±4°C	5min	45 ±5°C	
	PERM PRESS CASUAL	LOW	Normal Adjustable	32min	Saturation	52±3°C	5min	45 ±5°C	
	COTTON / NORMAL	MEDIUM	Normal Adjustable	41min	Saturation	60±4°C	5min	45 ±5°C	
	DELICATES	LOW	Normal Adjustable	28min	Saturation	52±3°C	5min	38 ±5°C	
	TOWELS	MEDIUM HIGH	Normal Adjustable	55min	Saturation	66±4°C	5min	45 ±5°C	
	SMALL LOAD	HIGH	Normal Adjustable	30min	Saturation	68±4°C	5min	45 ±5°C	
	SPORTS WEAR			27min	Saturation	60±4°C	5min	45 ±5°C	
	SPEED DRY	HIGH	Off	15min	Saturation	(68±5°C)	5min	(47±5°C)	
Manual Dry **	AIR DRY	NO HEAT	Off	30min	Saturation	(66±5°C)	5min		3Hr
	FRESHEN UP	Mid High	Off	25min	Saturation	(66±5°C)	5min	(45 ±5°C)	
	1	Load	Mo	otor		1			Off Time: 6min On Time: 10se c
		Louu	Hea	ater	Temp	perature Cor	ntrol for each	cycl e	

^{*}Sensor dry: Dry Level is set by users.

Default settings can be adjusted by users.

^{**}Manual dry: Temperature control is set by users.

5

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

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

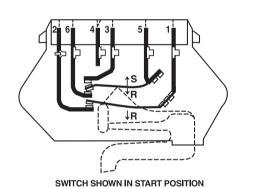
Component	Test Procedure	Check result	Remark
13. Outlet Thermostat (Auto reset)	Measure resistance of terminal to terminal		• Gas type
(Auto reset)	① Open at 203 ± 7°F (95 ± 5°C) ② Close at 158 ± 9°F (70 ± 5°C)	① Resistance value $= \infty$ ② Continuity < 1Ω	Gas funnel
Check Top Marking: N95			
14. Outlet Thermostat (Manual reset)	Measure resistance of terminal to terminal	If thermal fuse is open must be replaced	Gas type Gas funnel
	① Open at 212 ± 12°F (110 ± 7°C)	① Resistance value = ∞	
	② Manual reset	② Continuity < 1Ω	
Check Top Marking: N110			

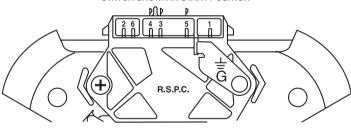
MOTOR DIAGRAM AND SCHEMATIC

NOTE When checking component, be sure to turn power off, then do voltage discharge sufficiently.

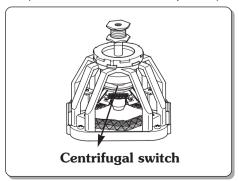
■ Contact On / Off by Centrifugal Switch

Terminal No								ъ .
Mode	Resistance	1	2	3	4	4 5	6	Remark
	2 ~ 3Ω				•	•		Motor
Motor STOP	÷ ∞	•	•					Heater (Electric Models)
	≒ ∞			•			•	Gas Valve (Gas Models)
	3 ~ 5Ω				•	•		Motor
Motor RUN	< 1Ω	•	•					Heater (Electric Models)
	< 1Ω			•			•	Gas Valve (Gas Models)

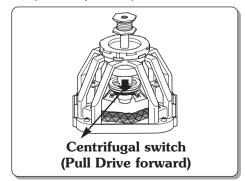




■ STOP MODE (When Motor does not operate)



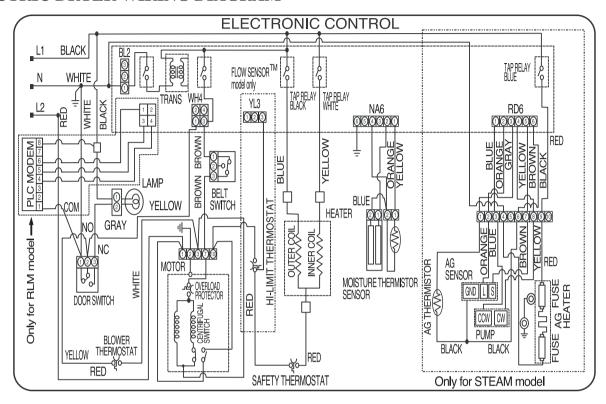
■ RUN MODE (Motor operates)



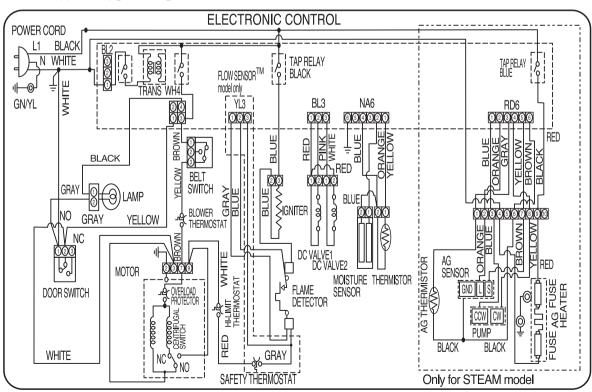
---- Open --- Close

WIRING DIAGRAM

ELECTRIC DRYER WIRING DIAGRAM



GAS DRYER WIRING DIAGRAM



STEAM FUNCTION

8-1. Steam Cycle Guide

	STEAM	DEFAULT TIME	TEMP. CONTROL	DRY LEVEL	FABRIC STATE	FABRIC TYPE	MAXIMUM AMOUNT
STEAM SANITARY™		STEAM SANITARY™ (39 minutes)			Dry	Comforter Bedding	Single (1 each)
		(60 1111114160)				Children's clothing	3 lbs.
		STEAM FRESH™ (20 minutes)	0		Dry	Comforter Shirts*	Single (1 each) 5 each
STEAM FRESH™	+ REDUCE STATIC	STEAM FRESH™ (10 minutes)			Dry	Shirts*	8 lbs. (18 ltems.)
	+ EASY IRON	STEAM FRESH™ (12 minutes)			Dry	Sillis	Shirts* (5 each)
STEAM	+ REDUCE STATIC	HEAVY DUTY COTTON/TOWELS NORMAL		0	Wet	Follow selected cycle	8 lbs. (18 ltems.)
OPTION + EASY IRON	EASY	PERM.PRESS DELICATES		0	Wet	Follow selected cycle	Shirts* (5 each)
TIME	+ REDUCE STATIC	TIME DRY (45 minutes)	0		Wet	Follow selected temp	8 lbs. (18 ltems.)
DRY	+ EASY IRON	TIME DRY (47 minutes)	0		Wet	Follow selected temp	Shirts* (5 each)

^{*}Shirt: 70% cotton/30% poly blend. Except especially delicate fabrics.

- When the lint filter or exhaust duct is clogged, steam options will not give proper results.
- For best results, load articles of similar size and fabric type. Do not overload.

IMPORTANT NOTES ABOUT STEAM CYCLES:

- The steam feeder must be filled with water up to the MAX line. Otherwise, an error message will be displayed.
- If the lint filter or exhaust duct is clogged, the steam options will not give proper results.
- For best results, load articles of similar size and fabric type.
 Do not overload.
- Water only Do not add any additives or other materials as these will damage your dryer.
- Before moving the dryer, make sure the steam feeder is empty.
- Best results are obtained with cotton/poly blend fabrics.

8-2. Troubleshooting for Steam Dryer

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The display shows: A E3 ERROR WATER SUPPLY ERROR. FILL STEAM FEEDER WITH FILTERED WATER SEC WAVER'S MANUAL (LGUS)1-800-243-0000 (LGCANADA)1-888-542-2823 A ERROR WATER SUPPLY ERROR. FILL STEAM FEEDER WITH FILL STEAM FEEDER WITH FILL STEAM FEEDER WITH FILL STEAM FEEDER SEE DWINER'S MANUAL	Water supply error.	 Check steam feeder drawer: Make sure steam feeder is filled with water to MAX line. Make sure steam feeder is seated properly and drawer is fully cloased. Turn the dryer off then restart the steam cycle. Do not use distilled water; the water level sensor in steam generator will not work. Pump not working. Unplug dryer and call for service.
Water drips from nozzle when Steam Cycle starts.	This is normal.	This is steam condensation. The dripping water will stop after a short time.
Steam doesn't generate but no error code is shown.	Water level error.	Unplug dryer and call for service.
Garments still wrinkled after STEAM FRESH™.	Too many or to different types of garments in dryer.	 Small loads of 1 to 5 items work best. Load fewer garments. Load similar-type garments.
There are no creases left on garment after STEAM FRESH™.	The function of this cycle is to remove wrinkles from fabric.	Use an iron to make creases.
Garments have static after REDUCE STATIC.	This is normal.	Depends on individual moisture level in skin.
Garments are too damp or too dry after REDUCE STATIC.	Correct drying options not selected.	Select load weight manually before starting REDUCE STATIC option.
Garments are not uniformly damp after EASY IRON.	This is normal.	Depends on the amount or type of garments.
Water drips from door during Steam Cycle.	This is normal.	This is steam condensation on door surface.
Steam is not visible during Steam Cycle.	This is normal.	Steam vapor is difficult to see when the door is closed.
Drum does not turn during Steam Cycle.	This is normal.	The drum is turned off so that the steam vapor remains in the drum.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Cannot see steam vapor at the beginning of cycle.	This is normal.	Steam is released at different stages of the cycle for each option.
The display shows BULKY LOAD.	MORE TIME button pressed.	Pressing the MORE TIME button several times will set the cycle for a large load such as a comforter.
Odors remain in clothing after STEAM FRESH™.	STEAM FRESH™ did not remove odor completely.	Fabrics containing strong odors should be washed in a normal cycle.

8-3. Display Fault/Error Codes for Steam Dryer

The error codes below will be displayed when attempting to start a drying cycle or after activating the Diagnostic Test mode.

DISPLAY	CHECKING PART	CAUSE	REMARK
tE1	Thermistor of blower housing	Outlet thermistor open or shorted.	 tE1 error is displayed in the drying cycle or test mode. Replace the steam generator.
tE2	Thermistor of blower housing	Outlet thermistor open or shorted.	 tE2 error is displayed in the drying cycle or test mode. Replace the steam generator.
tE4	Thermistor of steam generator	Steam generator thermistor open or shorted.	 tE4 error is only displayed in the test mode. Replace the steam generator.
E5	Water supply pump	When the pump valve is less than 10 in the test mode	 tE5 error is only displayed in the test mode. Check the connection between harness wire and connector. Replace the water supply pump.
Add water	Steam generator	Sensors do not detect that steam generator is full within 60 seconds.	If water in the steam feeder is not enough this error may be displayed. Fill the feeder and restart the cycle.

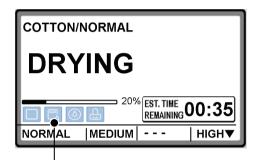
FLOW SENSOR FUNCTION

9-1 Flow sensor

This FlowSense[™] function detects the clogging or blocking of ducts.

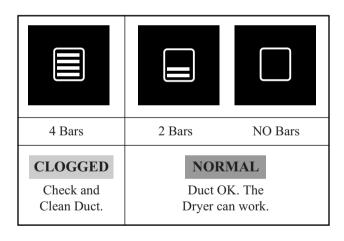
Clogged duct vents or hoses decrease efficiency in drying cloths. Clogged vents can also cause fire. This function alerts you to the need of cleaning the duct.

When the alarm about Duct clogging is on display of the panel, your duct vents should be cleaned by yourself or serviceman.



Flow Sensor Function

■ How does the Flow sense function display the clogging of duct?



The FlowSense[™] display consists of four bars inside a box. The display has only three possible displays as only three possible displays as shown here (Also see the figure shown below):

- 1 No bars displayed.
- 2 2 bars displayed.
- 3 4 bars displayed.

9-2 Installation check

This feature allows you to quickly verify that the exhaust system is adequate for the normal function of the dryer. The check takes only two minutes. The results of the check are displayed in the FlowSense™ display window as shown below

(Fig. 1). The dryer must be at room temperature for this test to be reliable. To perform this test, start the machine in standby mode (power off). Press and hold both the **DAMP DRY BEEP** and the **TEMP CONTROL** buttons together while turning on the dryer with the POWER button i.e. Press together the three buttons **DAMP DRY BEEP + TEMP CONTROL + POWER.** The dryer will start and run for 2 minutes while it checks temperatures. At the end of this short cycle, it will display the results as follows.

Fig.1



After Installation Check, If duct shows....



If NO Bars are shown in the display, ductwork is free from any blocking or restrictions.



If 4 Bars are shown in the display, ductwork is blocked and need to be cleaned immediately.

9-3 Troubleshooting for flow sensor dryer

1. Flow sensor bars light up

Is lint filter full?



Clean lint filter before every load



Is duct clogged?



Check & clean duct.

2. Flow sensor bars light up and does not disappear.

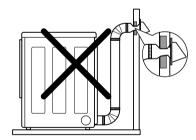
- 1. Flow sensor lights up 2 bars even when vents have been clean and even when the vents are off.
 - → This is Normal. After flow sensor recheck full next cycle, flow sensor is reset. (Flow sensor bars will disappear after dryer has operated two cycle)
- 2. Is flow sensor display changed from 4 bars to 2 bar after cleaning the duct.
 - → Ductwork is slightly too long or has too many elbows.
 - → Dryer can be used in this condition.

■ Bars are displayed and do NOT disappear

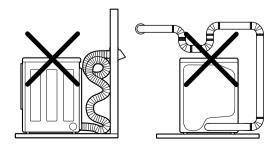
*Control Panel



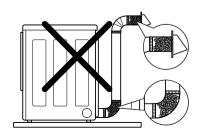
Make sure that the ductwork is not crushed or restricted.



Avoid long runs of ducts or runs with multiple elbows or bends.



Check for blockages and lint build up.



10

DIAGNOSTIC TEST

- 1. This TEST should be used for Factory test /Service test. Do not use this DIAGNOSTIC TEST other than specified.
- 2. Activating the Heater manually with the Door open may trip the Thermostat attached to the Heater, therefore do not activate it manually. (Do not press the door switch to operate the heater while the door is open)

■ ACTIVATING THE DIAGNOSTIC TEST MODE

- 1. UNIT must be in standby (unit plugged in, display off)
- 2. Press POWER while pressing MORE TIME and LESS TIME simultaneously.
- 3. Press START/PAUSE button to advance through diagnostics.

Pressing the START/PAUSE	CHECKING ACTION	DISPLAY	CHECKPOINT
None	Electric control &	LQC TEST MODE VERSION GAS of ELECTRIC ELECTRODE : XXX TEMPERATURE 1 : XXX SG TEMP. : XXX SG SShort : XXX SG SG XXX TEMPERATURE 2 : XXX HUMIDITY : XXX	Standard
	Temperature sensor	tE1	Thermistor open
		tE2	Thermistor shorted
		tE4	AG Thermistor open or shorted
		30 = Low	Motor runs
Once	Motor+Controller	moisture 239 = High moisture	Displays Moisture Sensor Operation If moisture sensor is contacted with damp cloth. The display number is below180innormalcondition
Twice	■ELECTRIC TYPE Motor+Heater1(2700W) ■GAS TYPE Motor	Current Temp. (5~70)	■ ELECTRIC TYPE Heater 1 is energized - 2700 W ■ GAS TYPE is not opened (Temperature in the drum is displayed in degrees C.)
3 times	■ELECTRIC TYPE Motor+Heater1+Heater2 (5400W) ■GAS TYPE Motor+Gasvalve	Current Temp. (5~70)	■ ELECTRIC TYPE: Heater 1 and heater 2 are energized - 5400 W ■ GAS TYPE: Gas valve is energized (Temperature in the drum is displayed in degrees C.) ■ DUAL SENSOR FAILURE CHECK: Values of TEMPERATURE2 and HUMIDITY are '000', the display shows SE ERROR.
4 times	Motor+Pump+ Heater2(runs for 1sec)	Pump AD valve (11~255)	Pump runs
(Heater1 off)		E5	Pump Error
5 times	Motor, Pump, Heater2 off	00	
6 times	Loads, Controller off		Power off

* To check pump operation:

When pressed 4 times in the test mode, If the AD value of the pump is higher than 10 on the display, the pump is normal. If it is lower than 10, E5 error will be displayed.

■ **Test 1** 120V AC Electrical supply

power was applied to Controller. (LED,LCD Disp th Dryer Power On; Connector linked to Controlle		
th Dryer Power On; Connector linked to Controlle	er.	
Check the outlet, is the voltage 110V ~ 125V AC?	NO	Check the fuse or circuit breaker.
YES		
Check if the voltage measured between Connector BK2 or WH2-② (Black Wire) Linked to the Controller and WH1-① (White Wire) Is 110~125V?	NO	Check if Power Cord is properly connected.
YES		
 Check if the Controller wire is disconnected. Check if Terminal Block and Power Cord are connected (Check Plug). Does Power Cord N neutral line match to center terminal N neutral line? 	NO	Reconnect the controller.
YES Replace controller.		
	Check if the voltage measured between Connector BK2 or WH2-② (Black Wire) Linked to the Controller and WH1-① (White Wire) Is 110~125V? 1 Check if the Controller wire is disconnected. ② Check if Terminal Block and Power Cord are connected (Check Plug) Does Power Cord N neutral line match to center terminal N neutral line?	Check if the voltage measured between Connector BK2 or WH2-② (Black Wire) Linked to the Controller and WH1-① (White Wire) Is 110~125V? 1 Check if the Controller wire is disconnected. 2 Check if Terminal Block and Power Cord are connected (Check Plug) Does Power Cord N neutral line match to center terminal N neutral line?

Caution When measuring power, be sure to wear insulated gloves to avoid an electric					
Trouble Symptom Check the Tab Relays Connection properly.					
Measurement Condition	With Dryer Power On; Connector linked to Controller.				

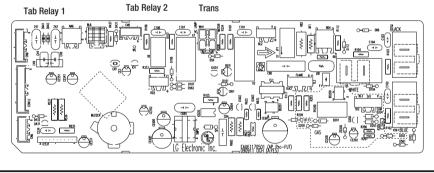
1. Power Connection

< Table1 > : Connection of the tap relay with Heater (Electric)

	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 Heater1 and Heater2.
Low Extra Low	on	off	on	off	Temperature Control below $52 \pm 4^{\circ}\text{C}$ Only Turn on Heater1.

< Table 2 > : Connection of the Tab Relay with Burner (Gas)

	Tab Relay 1	Burner	Remark
High Mid High Medium	0	0	Temperature Control below 70 \pm 4 $^{\circ}\text{C}$ Turn on Burner
Low Extra Low	0	0	Temperature Control below 47 \pm 4 $^{\circ}\text{C}$ Turn on Burner



* PCB ASSEMBLY LAYOUT

2. Status Mode Of The Connection

< Table1 > : Connection of tap relay with the tap relay of the PCB ASSEMBLY Electric

	Color	Color		Remark	
	Color	Harness	PCB	nemark	
Connector Housing	Black	Yellow wire Black wire Connector Housing	Tap relay 1	Check the Matching color Between Harness wire and tap relay. (Black Housing – Black tap relay)	
	White	Blue wire Black wire Connector Housing	Tap relay 2	Check the Matching color Between Harness wire and tap relay. (White Housing – White tap relay)	

< Table 2 > : Connection of tap relay with PCB ASSEMBLY (Gas)

	Color	Harness	РСВ	Remark
Connector Housing	Black	Blue Wire Black Wire Connector Housing	Tap relay 1	Check the Matching color Between Harness wire and taprelay. (Black Housing – Black taprelay)

3. Status Mode Of wrong Connection

< Table1 > : incorrect Connection of the tap relay and connector housing (Electric)

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	Heater2	Heater1	Power On
5.Black and White Housing	Housing and Wire ①, ② CROSS	Off	Off	Power Off

< Table2 > : incorrect Connection of the tap relay and connector housing (Gas)

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

▲ CAUTION

CAUTION! Improper connection of the heater can damage the heater or the main board.

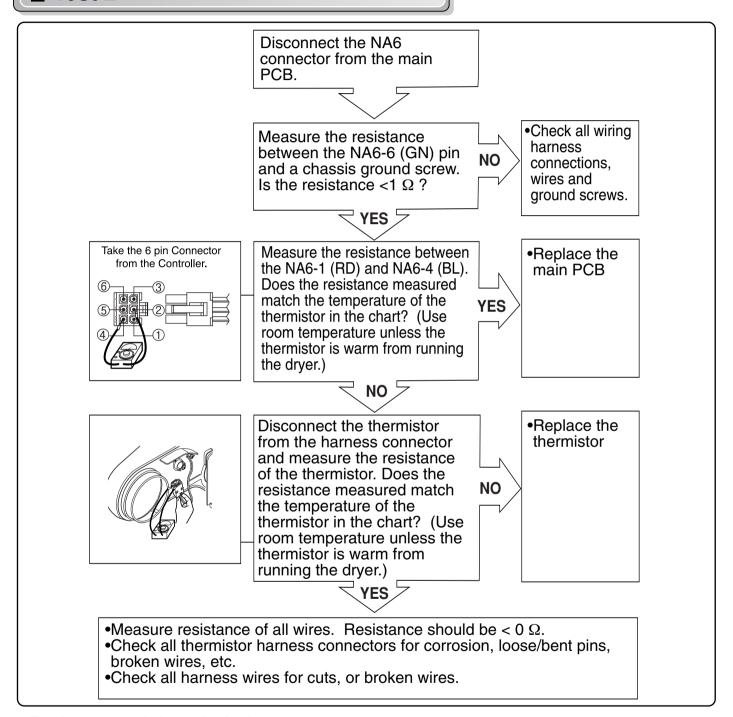
■ **Test 2** Thermistor Test --- Measure with Power Off

Caution	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.)						
Trouble Symptom	 During Diagnostic Test, tE1 and tE2 Error occur. During operation, Heater would not turn off or remains on. Difference between actual and sensed temperature is significant. 						
Measurement Condition	After turning Power off, measure the resistance.						
Take the 6 pin Connector from the Controller.	he Controller. Short with metal to the 6 pin connector's and the 6 pin connector are						
	Check if resistance is in the range of Table 1 when measuring resistance between terminals after separating Harness From Thermistor assembly Connector. YES Check if resistance is in the range of Table 1 NO Replace Thermistor.						
	Check Harness-linking connector.						

■ Table 1. Resistance for Thermistor Temperature.

Air TEMP.[°F (°C)]	RES. $[k\Omega]$	Air TEMP.[°F (°C)]	RES. $[k\Omega]$	Air TEMP.[°F (°C)]	RES. $[k\Omega]$
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 2 Thermistor Test---Measure with Power Off



■ Thermistor temperature/resistance chart (±5%)

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

Caution	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.)							
Trouble Symptom	Degree of dryness does not match with Dry Level.							
Measurement Condition	Turn the Dryer's Power Off, then measure resistance	Э.						
Take 6pin Connector from the Controller. 6 3 5 4 1 Metal or Wire	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	Check Electro Load and Harness Connector. Check Harness-linking connector.					
Damping clot	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)? YES	NO	Replace Control and Check.					
	Normal Condition							

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

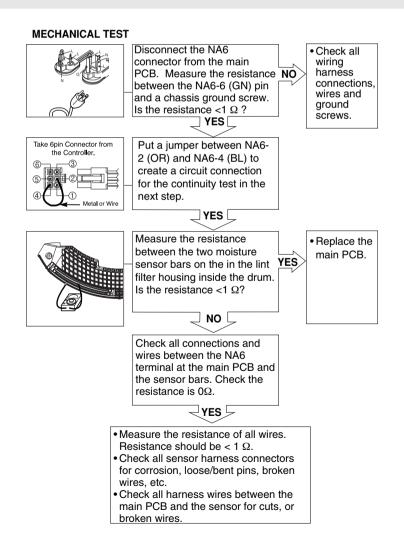
IMC	Display Value	Voltage (DC) (between 6 Pin terminal 3,5)	Remark
70% ~ 40%	50 ~ 130	2.5V	Weight after removing from Washing Machine
40% ~ 20%	130 ~ 20	2.0V ~ 4.0V	Damp Dry
10% ~ Dried clothes	205 ~ 240	Over 4.0V	Completely-dried clothes

■ Test 4 Moisture sensor

NOTE: This test has two parts. The best test of the moisture sensing system is done in the diagnostic mode. This FUNCTIONAL TEST will test the sensor bars, wiring harness and PCB operation. If the results of this test are normal, the sensor system and PCB response are normal. The problem is somewhere else.

FUNCTIONAL TEST (Control)

- 1. Enter the diagnostic mode. (See DIAGNOSTIC TEST MODE on page 1.)
- 2. With the door closed, press the START/PAUSE button once. The dryer will start tumbling without heat.
- 3. Open the door. The drum will stop tumbling and the "dE" error code will be displayed and the chime will sound several times (if turned on).
- 4. With one hand, reach into the drum and place your fingers across the moisture sensor bars. (CAUTION: The dryer drum will turn in this test. Your hand will be close to the rotating drum vanes. Keep your hand close to the filter housing to avoid being hit by the moving vanes.)
- 5. Use your other hand to press the door switch. The dryer drum will start rotating automatically.
- 6. Observe the numerical display. Depending on conditions, the number displayed should be between 30 and 239. The numbers should start decreasing as the control senses the moisture in your skin.
- 7. After you have observed the number decreasing, remove your fingers from the sensor bars. The numbers will continue to decrease for a few seconds (minimum 30) and the begin to increase (maximum 239).
- 8. If this test fails, proceed with the MECHANICAL TEST below.

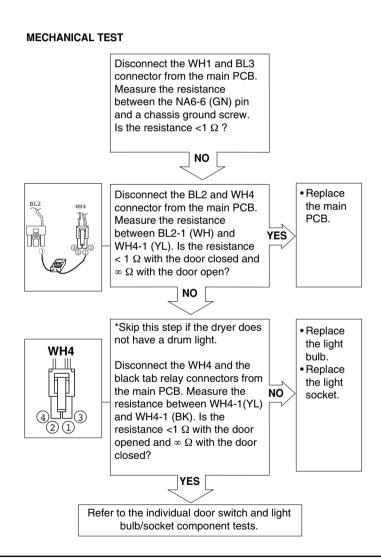


■ **Test 5** Door switch test

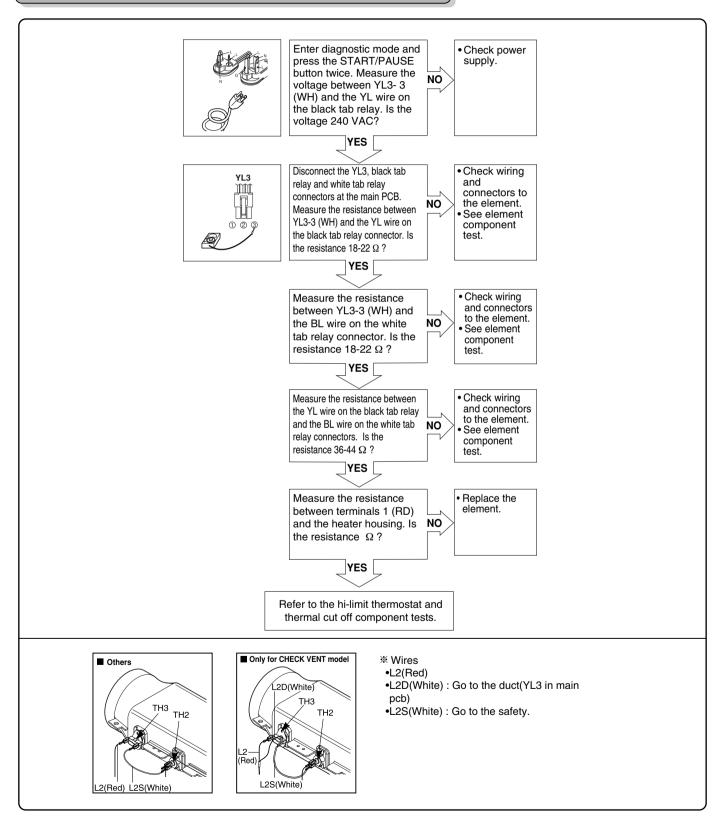
NOTE: This test has two parts. The best test of the door switch system is done in the diagnostic mode. This FUNCTIONAL TEST will test the door switch, wiring harness and PCB operation. If the results of this test are normal, the door switch system and PCB response are normal. The problem is somewhere else.

FUNCTIONAL TEST (Control)

- 1. Enter the diagnostic mode. (See DIAGNOSTIC TEST MODE on page 1.)
- 2. With the door closed, press the START/PAUSE button once. The dryer will start tumbling without heat.
- 3. Open the door. The drum will stop tumbling. The "dE" error code should be displayed, the chime should sound seven times (if turned on), and the drum light (if equipped) should come on. If the "dE" error code is not displayed or the light does not come on, proceed with the MECHANICAL TEST below. If the error displays and light comes on, the door switch is working properly.



■ Test 6 Heater switch test - Electric Type



■ Test 8 Semi Conductor

Caution	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.)				
Trouble Symptom	Degree of Resistance is not in 300°æ30 Ω				
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.				
Take 6pin Connector from the Controller. 6 3 5 2 1	When measuring resistance ③-④, ④-⑤ Is resistance 300±20 Ω? YES	Check Semi- conductor and Harness Connector Check Harness linking connector			

■ Test 9 Motor Assembly, DC, Pump

Caution	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.)			
Trouble Symptom	During Diagnostic Test, E5 Error occurs.			
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.			
	After activating the *diagnostic test, press START/PAUSE button 4 times. Is AD value displayed higher than 10 ? YES • Replace the DC Pump			
	Normal condition			
* diagnostic test : go to page 22				

■ Test 10 Generator Assembly

Caution	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.)			
Trouble Symptom	 During Steam cycle, Generator Assembly is not heating. During Diagnostic Test, tE4 Error occurs. 			
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.			
	Is resistance 14.3 Ω (\pm 5%) between Heater terminal (1) and (2)? • Replace the Generator Assembly • If measured resistance value is ∞ , replace the Generator Assembly too.			

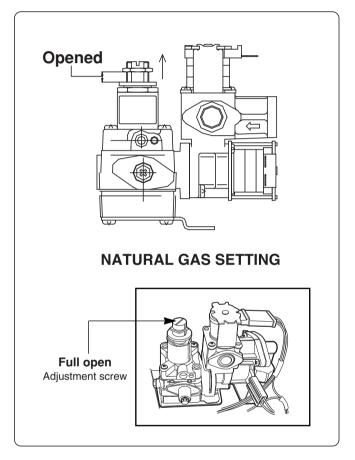
CHANGE GAS SETTING (NATURAL GAS, PROPANE GAS)

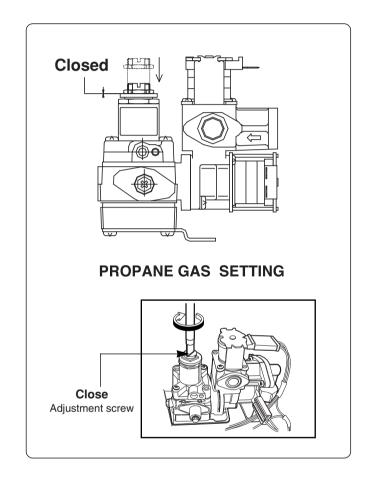
A Warning

Changing orifices and gas valve adjustments improperly can result in an explosion and/or fire. Conversion must be made by a qualified technician.

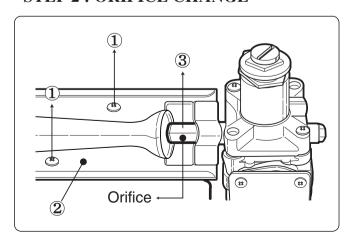
Initially, The burner is set for natural gas at the factory. The propane orifice conversion kit is sold as a service part to authorized servicers only. Part numbers are shown below.

STEP 1: VALVE SETTING





STEP 2: ORIFICE CHANGE

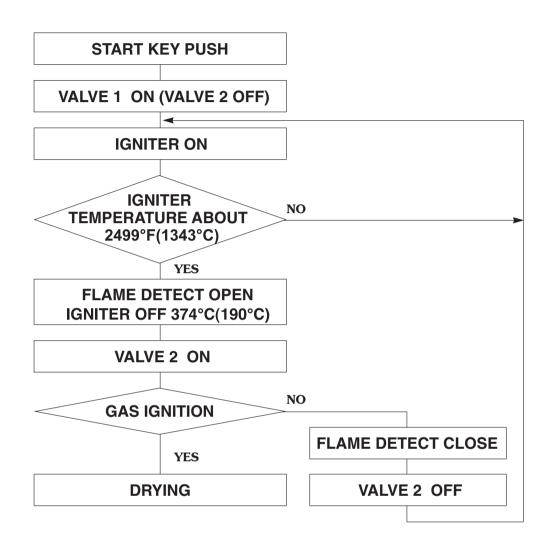


- 1 Remove 2 screws.
- (2) Disassemble the pipe assembly.
- 3 Replace Natural Gas orifice with Propane Gas orifice.

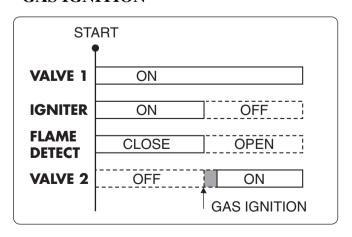
Gas type	Orifice P/No	Marking	Shape
Natural Gas	4948EL4001B	NCU	
Propane Gas	4948EL4002C	PCU	

* Kit contents: Orifice (Dia. = 1.47mm, for Propane Gas) Conversion Label Instruction Sheet

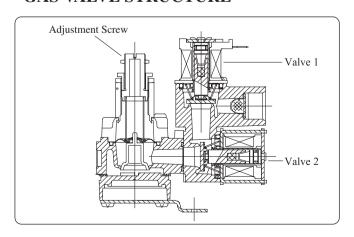
■ GAS VALVE FLOW



GAS IGNITION



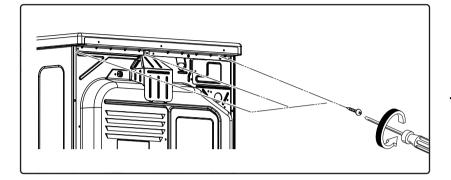
GAS VALVE STRUCTURE



DISASSEMBLY INSTRUCTIONS

* Unplug the dryer before servicing.

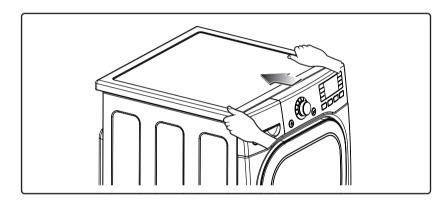
TOP PLATE



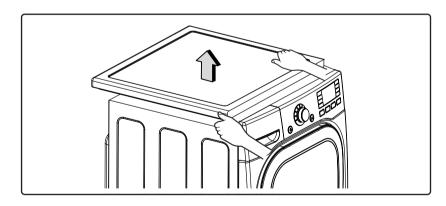
A WARNING!

When you disassemble the top plate, be sure to take gloves and handle the top plate carefully to avoid cuts. Failure to do this could lead to a serious injury.

1. Remove 3 screws on the upper plate.



2. Push the top plate backward.

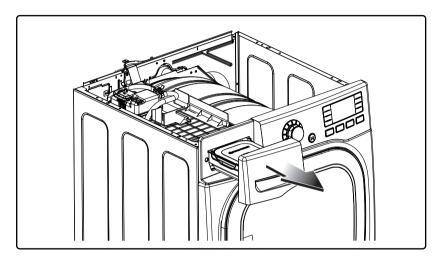


3. Lift the top plate.

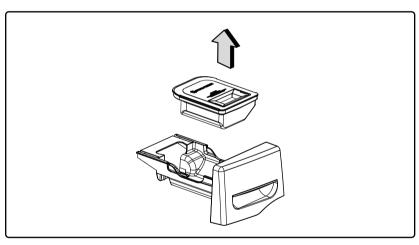
AWARNING!

THE DRYER TOP PLATE IS VERY LARGE AND HEAVY. Fallure to follow instructions can result in damage to the dryer, property damage or personal injury.

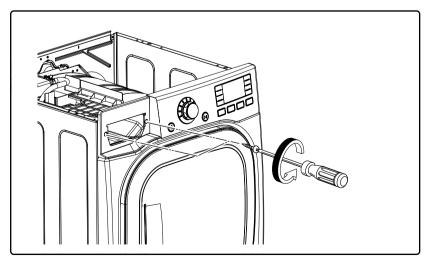
PANEL DRAWER ASSEMBLY



1. Pull out the drawer

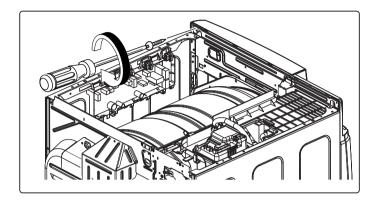


2. Lift out the steam feeder.



3. Remove 2 screws on the control panel.

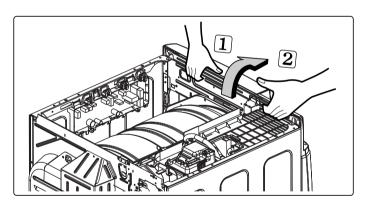
CONTROL PANEL ASSEMBLY



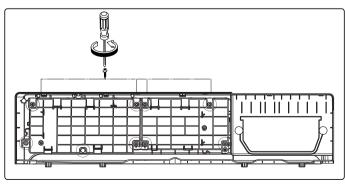
A WARNING!

When you disassemble the control panel, be sure to take gloves and handle the frame and other parts carefully to avoid cuts. Failure to do this could lead to a serious injury.

- **1.** Remove 2 screws on the control panel frame.
- **2.** Disconnect the connectors.

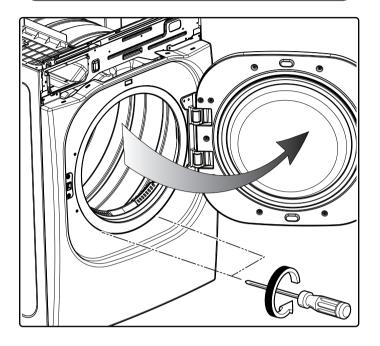


3. Pull the control panel assembly upward and then forward.



- **4.** Remove 8 screws on the PCB PCB) assembly, display.
- **5.** Disassemble the control panel assembly.

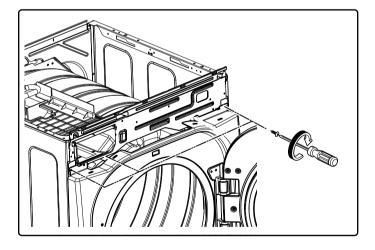
COVER CABINET



A WARNING!

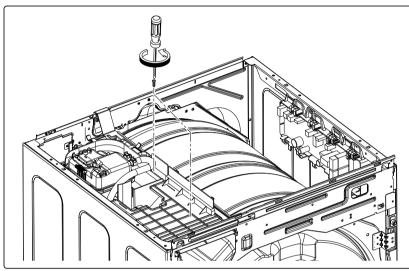
When you disassemble the door switch connector, be sure to take gloves and handle the frame and other parts carefully to avoid cuts. Failure to do this could lead to a serious injury.

- **1.** Disassemble the top plate.
- **2.** Disassemble the control panel assembly.
- **3.** Disassemble the door assembly.
- 4. Remove 2 screws.

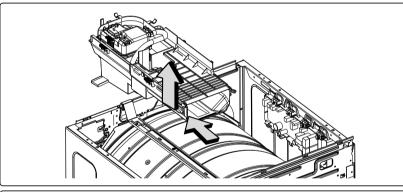


- **5.** Remove 3 screws from the top of cabinet cover.
- **6.** Disconnect the harness of door switch.

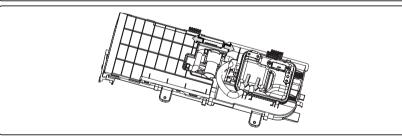
GUIDE ASM



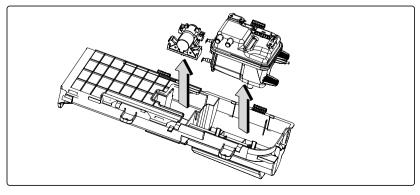
1. Remove 3 screws on the frame body.



2. Push the Guide assembly to the back side and then lift it.

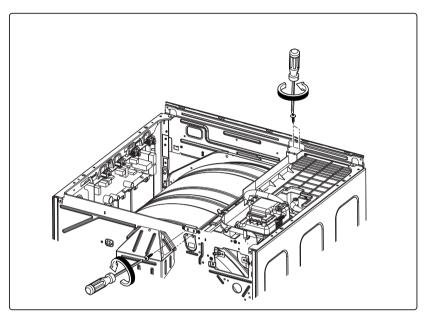


3. Separate 2 hoses from the pump and generator.

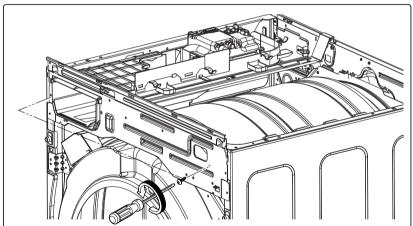


4. Lift a pump and generator up.

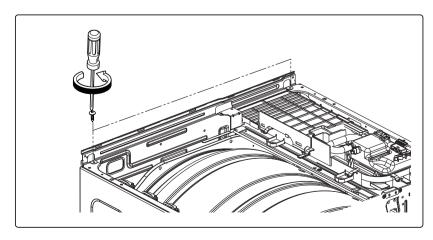
FRAME BODY & PANEL FRAME



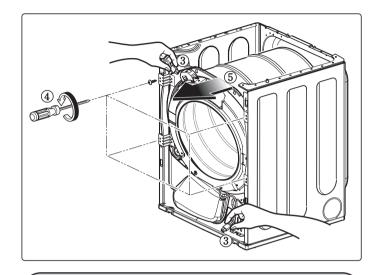
1. Remove 3 screws on the frame body. and then disassemble the frame body.



2. Remove 4 screws on the panel Frame and then remove it.



TUB DRUM [FRONT]

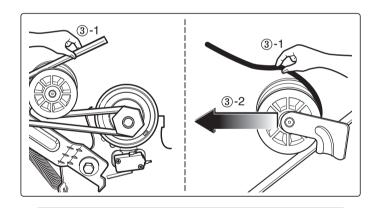


A WARNING!

When you disassemble the lamp connector, be sure to take gloves and handle the frame and other parts carefully to avoid cuts. Failure to do this could lead to a serious injury.

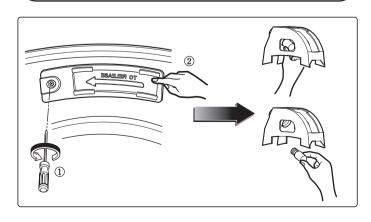
- 1. Open the top plate.
- 2. Remove Cover Cabinet.
- **3.** Disconnect the door lamp and electrode sensor connector.
- 4. Remove 4 screws.
- 5. Disassemble the Tub Drum (Front) assembly.

DRUM ASSEMBLY



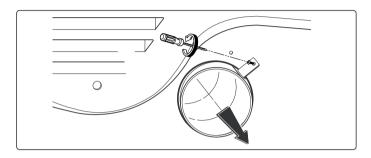
- 1. Open the top plate.
- **2.** Remove the Cabinet Cover and Tub Drum (Front) assembly.
- 3. Loosen belt from motor and idler pulleys.
- **4.** Carefully remove the drum.

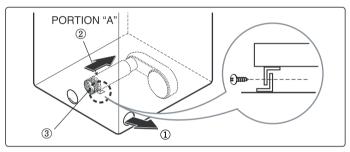
CHANGING THE DRUM LAMP

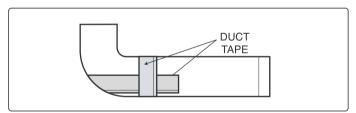


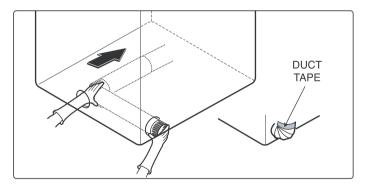
- 1. Open the door.
- **2.** Hold the lamp shield in place while removing the screw.
- **3.** Slide the shield up and remove.
- **4.** Remove the bulb and replace with a 15-watt, 120-volt candelabra-base bulb.
- 5. Replace the lamp shield and screw.

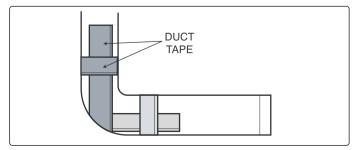
DRYER EXHAUST CHANGE











A WARNING!

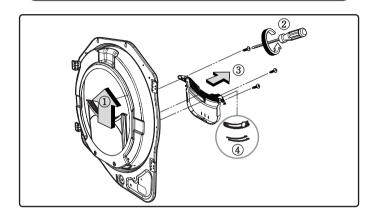
Before performing this exhaust installation, be sure to disconnect the dryer from its electrical supply. Protect your hands and arms from sharp edges when working inside the cabinet. To reduce the risk of personal injury, adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses.

- 1. Remove screw and exhaust duct.
- **2.** Detach and remove the bottom, left or right side knockout as desired.

- 3. Reconnect the new duct [11" (28 cm)] to the blower housing, and attach the duct to the base.
- **4.** Pre-assemble a 4" elbow with a 4" duct. Wrap duct tape around the joint

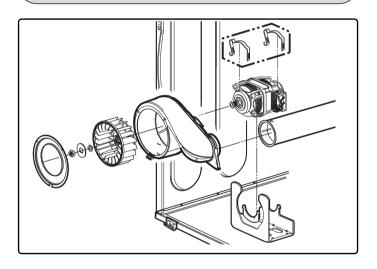
5. Insert duct assembly, elbow first, through the side opening and connect the elbow to the dryer's internal duct.

FILTER ASSEMBLY



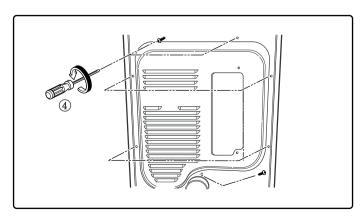
- **1.** Remove the filter.
- 2. Remove 3 screws.
- 3. Remove the Cover Grid.
- **4.** Disconnect the electrode sensor.

BLOWER HOUSING



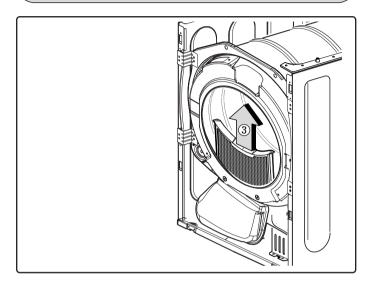
- **1.** Disassemble the top plate.
- **2.** Remove the Cabinet Cover and Tub Drum (Front) assembly.
- **3.** Remove the Drum assembly.
- **4.** Remove 2 screws and cover (Air guide).
- **5.** Remove the bolt and washer.
- **6.** Remove the fan.
- **7.** Disconnect the motor clamp and motor.

BACK COVER

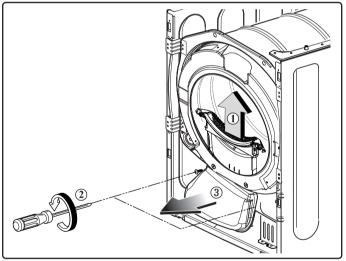


- **1.** Open the top plate.
- **2.** Remove the Cover Cabinet and Tub Drum (Front) assembly.
- **3.** Remove the Drum assembly.
- **4.** Remove 7 screws.
- **5.** Pull the Tub Drum (Rear) assembly. Towards the front.

AIR DUCT

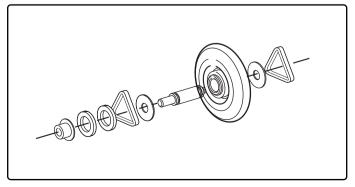


- **1.** Disassemble the top plate.
- 2. Remove the Cover Cabinet.
- 3. Remove the filter.



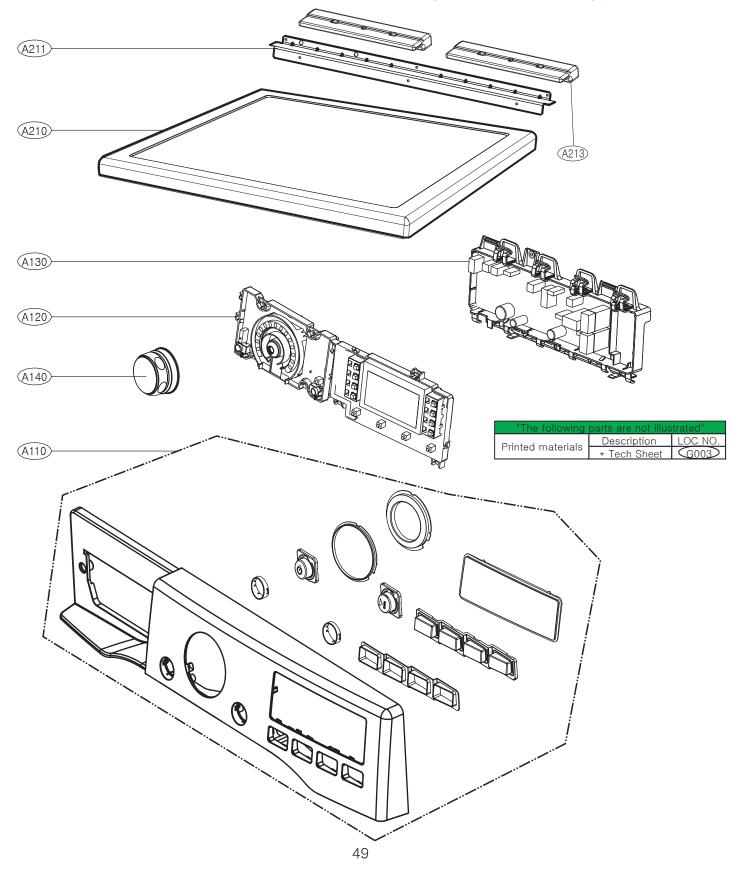
- **1.** Remove the Cover guide.
- 2. Remove 2 screws.
- **3.** Remove the air duct.

ROLLERS

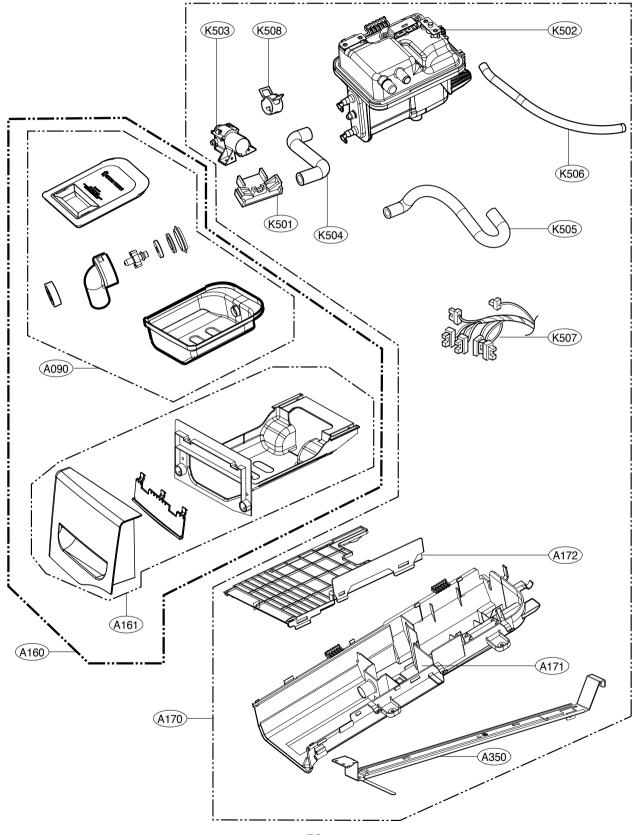


- **1.** Disassemble the top plate.
- 2. Remove the Cover Cabinet and Tub Drum (Front) assembly.
- **3.** Remove the Drum assembly and Tub Drum (Front) assembly.
- **4.** Disconnect the Air duct from the Tub Drum (Front) assembly.
- **5.** Remove the rollers from the Tub Drum (Front) assembly and Tub Drum (Rear) assembly.

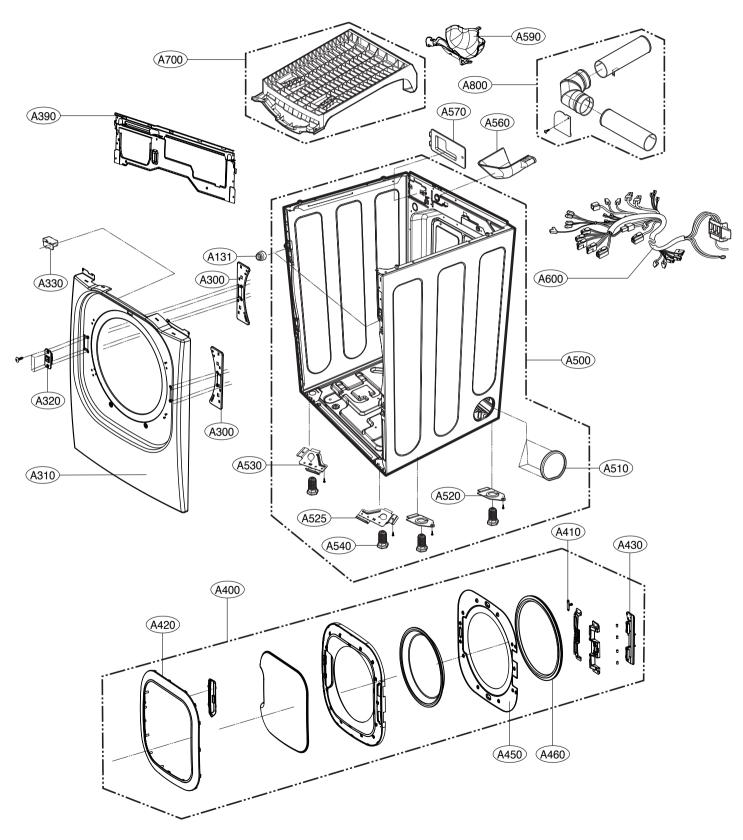
13-1-1. Control Panel & Plate Assembly (Touch LCD type)



13-2. Panel Drawer Assembly & Guide Assembly



13-3-1. Cabinet & Door Assembly: Electric Type



13-4-1. Drum & Motor Assembly: Electric Type

