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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 : DLEX0001TM / DLGX0002TM



November 2007 PRINTED IN KOREA

P/No. : 3828EL3005P

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.*

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 29.9 X 38.7 (inch)
 - Dryer capacity: IEC 7.3 cu.ft.
 - Weight: 131(lbs)
- * Specifications are subject to change by manufacturer.

ACCESSORIES



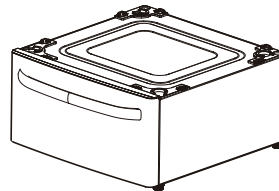
Dryer rack (1 each)

See page 6



Stacking kit (1 each)
Purchased Separately

See page 7



Pedestal (1 each)
Purchased Separately

See page 8



Remote Laundry Monitor
Purchased Separately

ITEM		DLEX0001TM DLGX0002TM	REMARK
Material & Finish	Color	Natural	
	Top Plate	STS	
	Door Trim	Chromate	
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 (0.2A)	AC 120V
	GAS VALVE	13 W (110mA) x 2	AC 120V (GAS MODEL)
	AG HEATER	1100W (9.2A)	AC 120V(STEAM MODEL)
	DC, PUMP	1.7W (0.15A)	ADC 12V(STEAM MODEL)
CONTROL TYPE		Electronic	
DRUM CAPACITY		7.3 cu.ft.	
Weight (lbs) - Net/Gross		131/158	
No. of Programs		9	
No. of Steam Options		2	
No. of Dry Options		3	
No. of Temperature Controls		5	
No. of Dry Levels		5	
Sound levels		On/Off	
Sensor	Moisture	Available	Electrode sensor
	Temperature	Available	Thermistor
Reversible Door		Available	
Drum		Stainless Steel	
Dryer Rack		Available	
Child Lock		Available	
Interior Light		Available	
Product (WxHxD)		27" x 42 3/4" x 28 1/3"	
Packing (WxHxD)		29 1/2" x 44 3/4" x 30 3/4"	

2

FEATURES AND BENEFITS



3

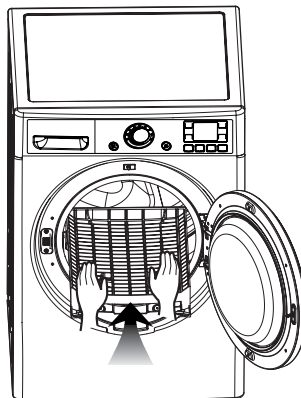
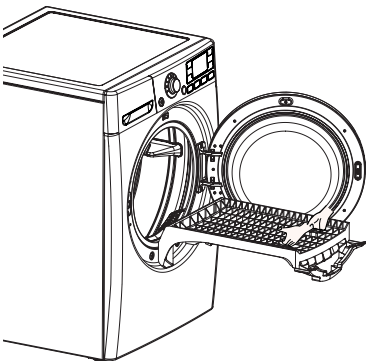
INSTALLATION INSTRUCTIONS

Dryer Rack Installation Instructions

1 **Open the door.**
Hold the dryer rack with both hands.

2 Put the dryer rack into the drum

3 Check and be sure that the front of the rack is properly seated behind the lint filter.



Stacking Kit Installation Instructions

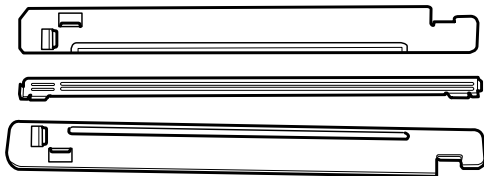
To ensure safe and secure installation, please observe the instructions below.

WARNING

Do not attempt this alone!

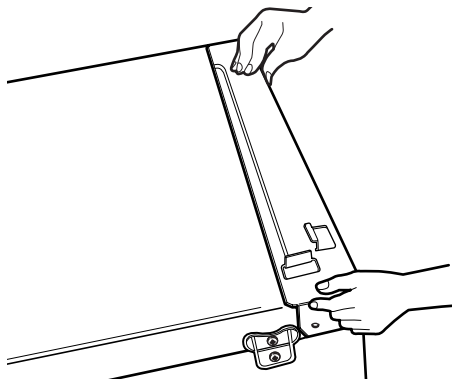
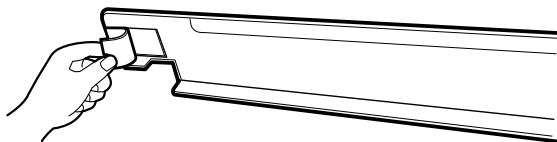
At least two people are required to lift and position the dryer on top of a washing machine!

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

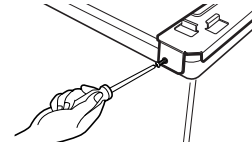


Stacking kit

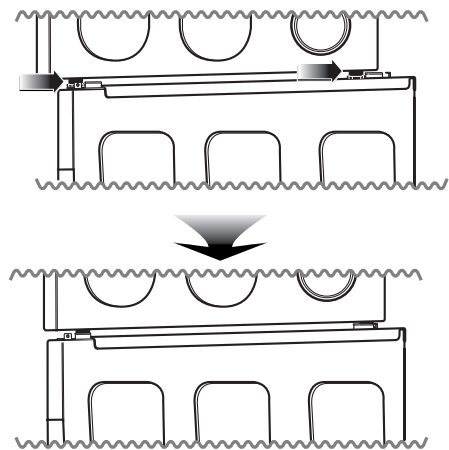
- 1** Place the washer firmly on a stable, even and solid floor as product installation instructions describe in the owner's manual.
- 2** Peel the protective paper from the tape on the side bracket.
- 3** Fit the side bracket firmly to the side of the top plate by attaching the double-faced tape to the top plate as picture shown.



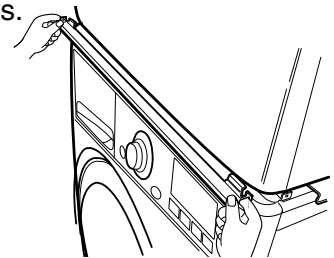
- 4** Secure the side bracket to the washer with a screw on the back of the bracket. Repeat Steps 2, 3, & 4 for the other side.



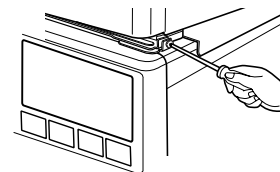
- 5** Place the dryer on top of the washer by placing the legs as shown. Be careful not to pinch fingers between the washer and dryer. Slide the dryer back against the stop on the side rail.



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



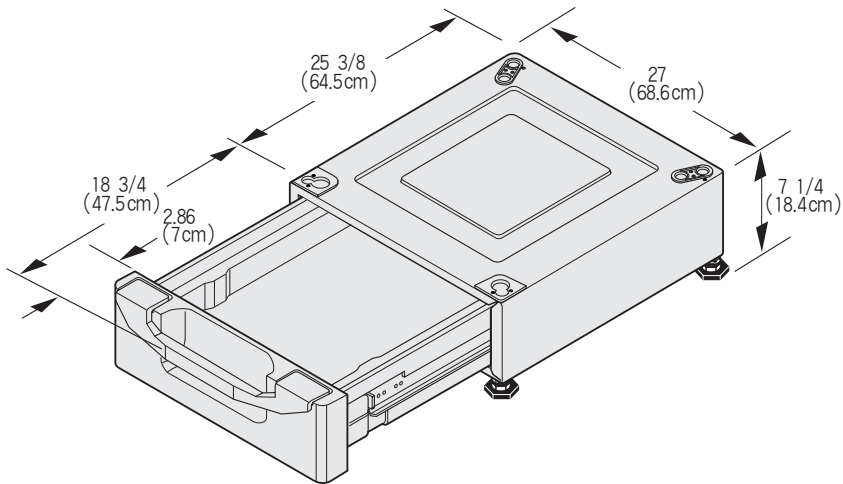
- 7** Screw both sides of the front rail to the side brackets.



- Do not use a stacking kit with a gas dryer in potentially unstable conditions like a mobile home.

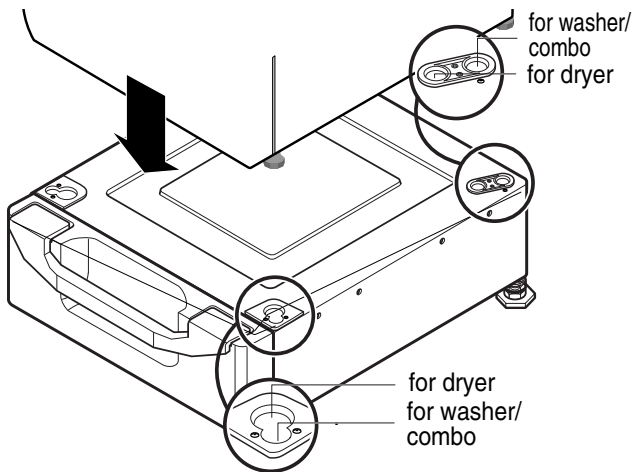
Pedestal Installation Instructions

※ For washer, dryer, and combo LG 27”



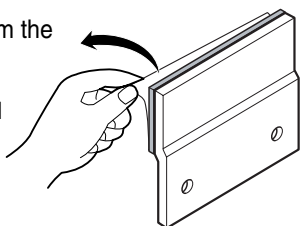
1 Remove pedestal, installation hardware, and instructions from the shipping carton.

2 Position the dryer on top of the pedestal.

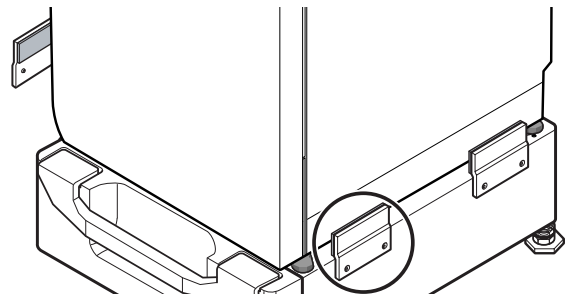


3 Remove the paper from the bracket.

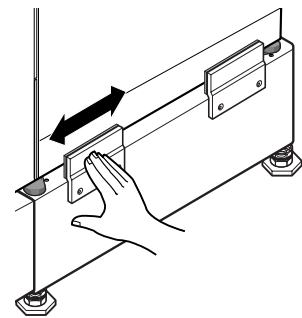
NOTE: That the Pedestal hardware packet may include 2 sets of side brackets. Be sure to use the brackets marked for the dryer.



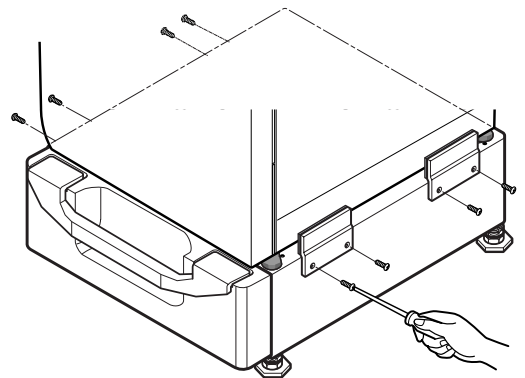
4 After removing the protective covering from the adhesive surface, align the screw holes in the brackets with the matching holes in the pedestal base and press the brackets against the base and the dryer.



5 Be sure to press the adhesive parts of the brackets firmly to the appliance.



6 Install the eight (8) screws (supplied) to attach the brackets to the pedestal.

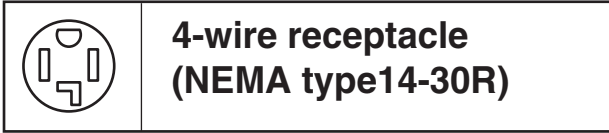


7 Move the dryer to the desired place.

NOTE : The appliance and pedestal assembly must be placed on a solid and level floor for proper operation. Adjust the legs of the appliance and pedestal by turning with a wrench. Then, adjust the lock unit toward the pedestal while holding the pedestal leg using a wrench.

Electric Dryer Only

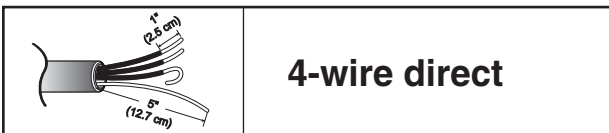
Review the following options to determine the appropriate electrical connection for your home:



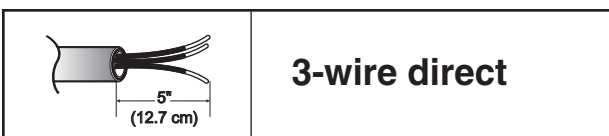
Use the instructions under option 1 if your home has a 4-wire receptacle (NEMA type 14-30R).



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.



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



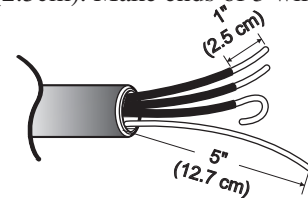
If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box

4-wire connection : Direct wire

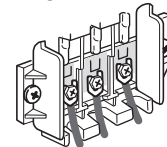
Important : Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, and (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor.

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

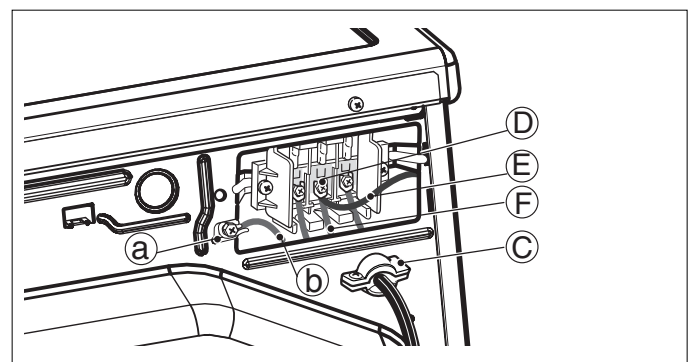
First, peel 5 inch (12.7cm) of covering material from end. Make a 5 inch of ground wire bared. After cutting 1½ inch (3.8cm) from 3 other wires, peel insulation back 1inch (2.5cm). Make ends of 3 wires a hook shape.



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. 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.

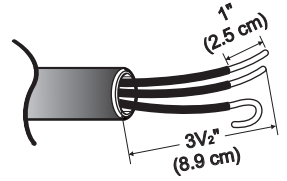


3-wire connection : Direct wire

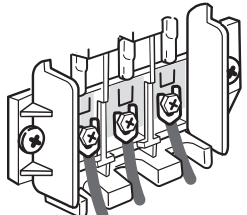
Important : Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, and (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor.

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

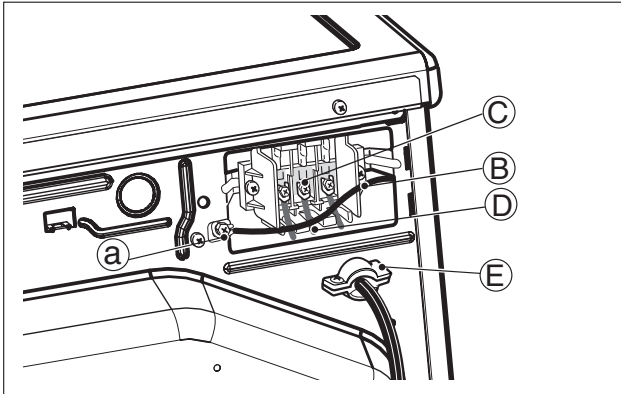
First, peel 3 1/2 inch (8.9cm) of covering material from end and bare 1 inch from the ends.



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.

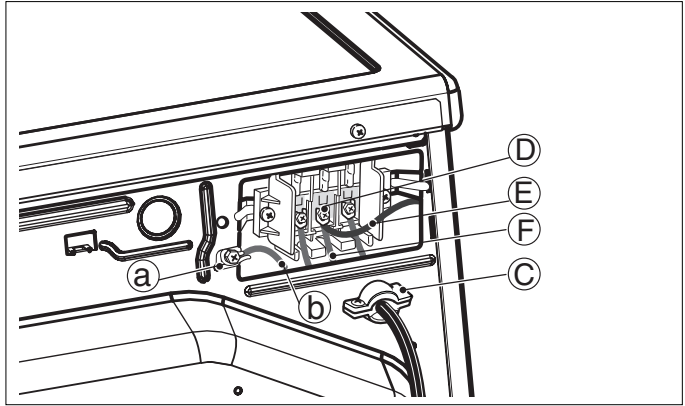
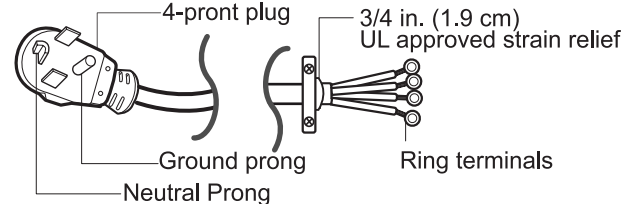
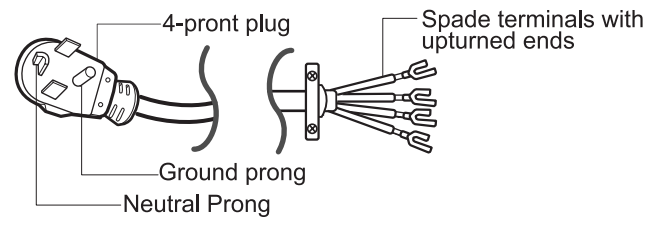
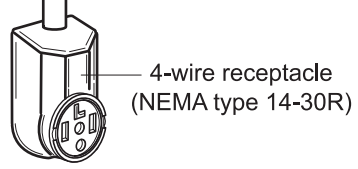


1. Connect neutral wire(white) of power cord to center terminal block screw.
2. Connect red and black wire to the left and right terminal block screws.
3. Make sure that the strain relief screw is tightened and be sure that all terminal block nuts are on tight and power cord is in right position.



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

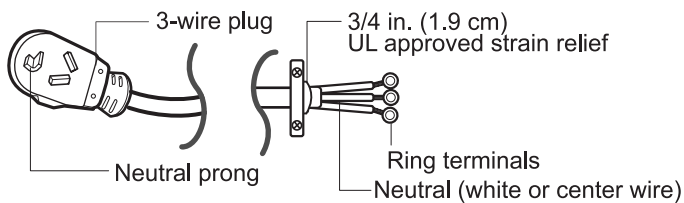
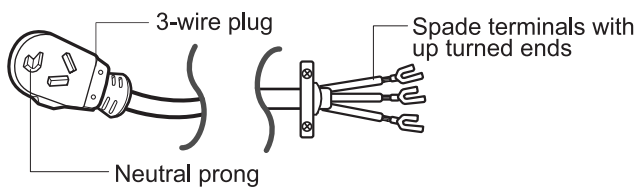
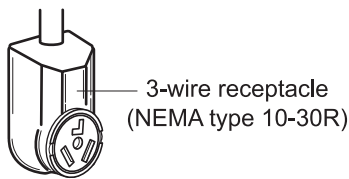
- If your local codes or ordinances do not allow the use of a 3 wire connection, or you are installing your dryer in a mobile home, you must use a 4-wire connection.



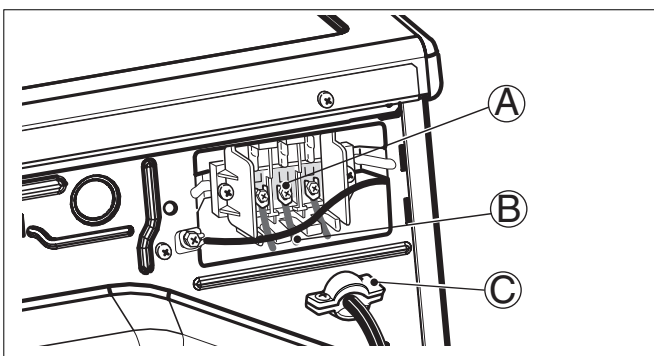
1. Connect the neutral wire (white) of the power cord to the center terminal block screw.
2. Connect the red and black wires to the left and right terminal block screws.
3. Connect the ground wire (green) of the power cord to the external ground screw. Remove the neutral ground wire of appliance and 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 **Section 3: Optional 3-wire connection.**

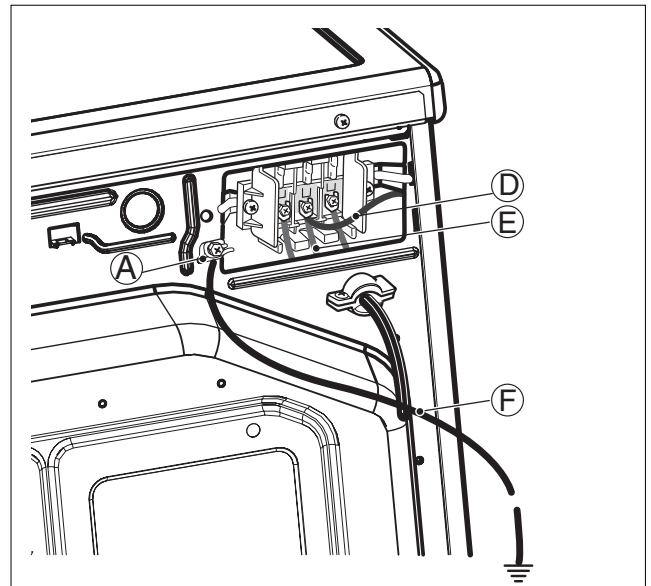
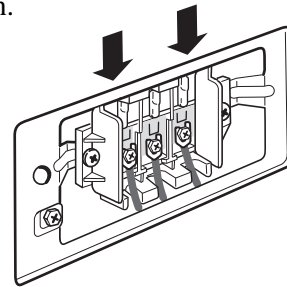


1. Connect the neutral (white or center) wire (B) to the center, silver colored, screw (A) and tighten securely.
2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
3. Tighten the strain relief screws (C) securely.



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.

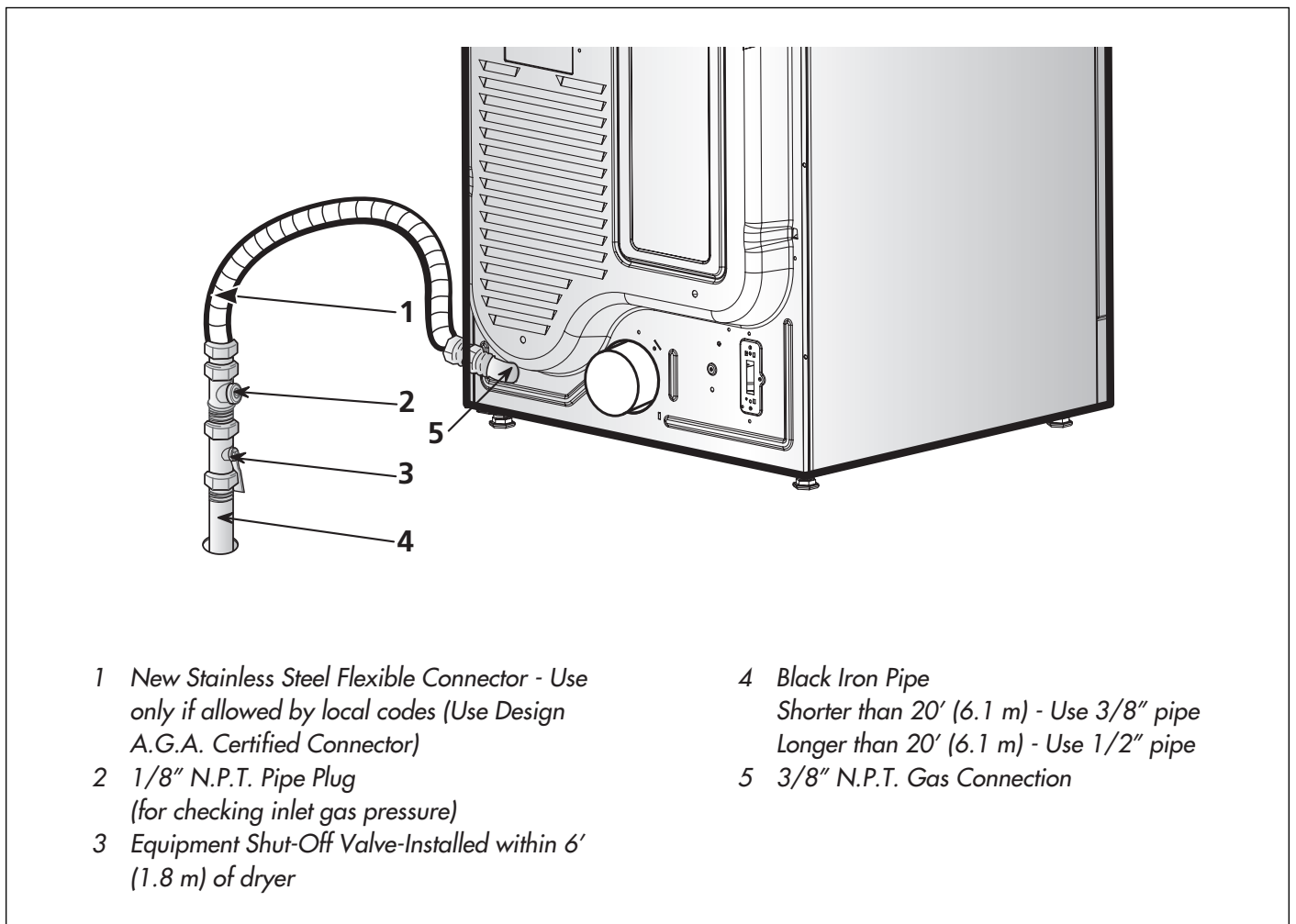


1. Remove the appliance ground wire (D) (green) from the external ground connector screw and reconnect it, together with the center, white, neutral wire (E) to the center, silver colored, terminal block screw.
2. Connect the other two power cord wires (red and black) to the left and right terminal block 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**.

1. 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" N.P.T. 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 & external) for gas leaks with a non-corrosive leak detection fluid.
5. For L.P. (Liquefied Petroleum) gas connection, refer to section on Gas Requirements.



4

DRYER CYCLE PROCESS

Cycle		Default			Conditions of operation and termination				
		Temp-erature	Dry Level	Display time	Drying		Cooling		Wrinkle care
					Electro-sensor	Temp-Control	Default time	Temp-Control**	Time
Sensor Dry *	HEAVY DUTY	HIGH	(Normal)	54min	Saturation	68±4°C	(5min)	47±5°C	3Hr
	COTTON/TOWELS	MID HIGH	(Normal)	55min	Saturation	66±4°C	(5min)	47±5°C	
	NORMAL	MEDIUM	(Normal)	41min	Saturation	60±4°C	(5min)	47±5°C	
	PERM PRESS	LOW	(Normal)	36min	Saturation	52±3°C	(5min)	47±5°C	
	DELICATES	LOW	(Normal)	32min	Saturation	52±3°C	(5min)	38±5°C	
	ULTRA DELICATE	ULTRA LOW	(Normal)	34min	Saturation	45±3°C	(5min)	38±5°C	
	STEAM FRESH	MID HIGH	(Normal)	20min	Saturation	60±4°C	(1min)	47±5°C	
Manual Dry **	SPEED DRY	(HIGH)	-	25min	Saturation	(70±5°C)	(5min)	(47±5°C)	3Hr
	AIR DRY	-	-	30min	Saturation	No heater	N/A	N/A	
Load		Motor							Off Time: 6min
									On Time: 10sec
Load		Heater			Temperature Control for each cycle				

* Sensor dry : “Dry Level” is set by users.

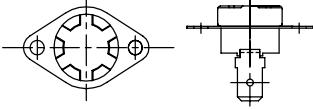
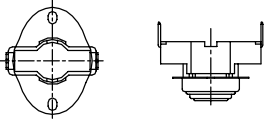
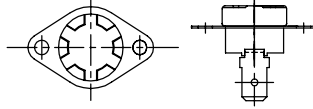
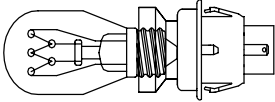
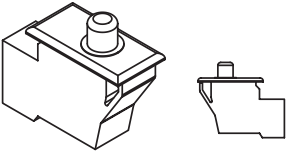
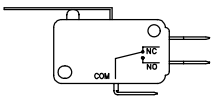
** Manual dry : “Temperature control” is set by users.

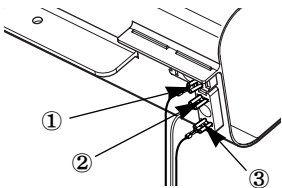
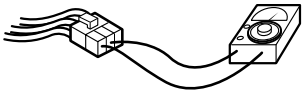
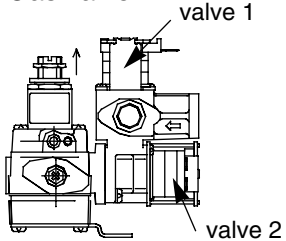
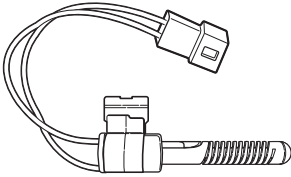
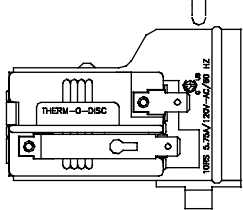
Default settings can be adjusted by users.

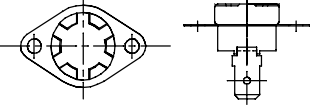
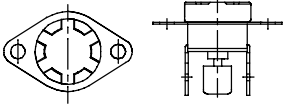
5

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
<p>1. Thermal cut off</p>  <p>• Check Top Marking: N130</p>	<p>Measure resistance of terminal to terminal</p> <p>∅ Open at 266 ± 12°F (130 ± 7°C)</p> <p>∅ 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>∅ Resistance value ∅ ∞</p> <p>∅ Continuity (250°F ↓) < 1Ω</p>	<ul style="list-style-type: none"> • Heater case-Safety • Electric type
<p>2. Hi limit Thermostat (Auto reset)</p> 	<p>Measure resistance of terminal to terminal</p> <p>∅ Open at 257 ± 9°F (125 ± 5°C)</p> <p>∅ Close at 221 ± 9°F (105 ± 5°C)</p>	<p>∅ Resistance value ∅ ∞</p> <p>∅ Resistance value < 5Ω</p>	<ul style="list-style-type: none"> • Heater case - Hi limit • Electric type
<p>3. Outlet Thermostat (Auto reset)</p>  <p>• Check Top Marking: N85</p>	<p>Measure resistance of terminal to terminal</p> <p>∅ Open at 185 ± 9°F (85 ± 5°C)</p> <p>∅ Close at 149 ± 9°F (65 ± 5°C)</p> <p>Same shape as Thermal cut off.</p>	<p>∅ Resistance value ∅ ∞</p> <p>∅ Resistance value < 5Ω</p>	<ul style="list-style-type: none"> • Blow housing - Safety • Electric type
<p>4. Lamp holder</p> 	<p>Measure resistance of terminal to terminal</p>	<p>Resistance value: 80Ω ~ 100Ω</p>	
<p>5. Door switch</p> 	<p>Measure resistance of the following terminal</p> <p>1) Door switch knob: open</p> <p>∅ Terminal: "COM" - "NC" (1-3)</p> <p>∅ Terminal: "COM" - "NO" (1-2)</p> <p>2) Door switch push: push</p> <p>∅ Terminal: "COM" - "NC" (1-3)</p> <p>∅ Terminal: "COM" - "NO" (1-2)</p>	<p>∅ Resistance value < 1Ω</p> <p>∅ Resistance value ∅ ∞</p> <p>∅ Resistance value ∅ ∞</p> <p>∅ Resistance value < 1Ω</p>	<p>The state that Knob is pressed is opposite to Open condition.</p>
<p>6. Idler switch</p> 	<p>Measure resistance of the following terminal: "COM - NC"</p>	<p>1. lever open</p> <p>∅ Resistance value < 1Ω</p> <p>2. Lever push (close)</p> <p>∅ Resistance value ∅ ∞</p>	

Component	Test Procedure	Check result	Remark
7. Heater 	Measure resistance of the following terminal ∅ Terminal: 1 (COM) - 2 ∅ Terminal: 1 (COM) - 3 ∅ Terminal: 2 - 3	∅ Resistance value: 10Ω ∅ Resistance value: 10Ω ∅ Resistance value: 20Ω	<ul style="list-style-type: none"> • Electric type
8. Thermistor 	Measure resistance of terminal to terminal Temperature condition: 58°F ~ (10~40°C) 58°F ~ 104F (10~40°C)	Resistance value: 10Ω	<ul style="list-style-type: none"> • Heater case - Hi limit • Electric type
9. Motor			<ul style="list-style-type: none"> • See Page 13
10. Gas valve 	Measure resistance of the following terminal ∅ Valve 1 terminal ∅ Valve 2 terminal	∅ Resistance value: > 1.5 kΩ ∅ Resistance value: > 1.5~2.5 kΩ	<ul style="list-style-type: none"> • Gas type
11. Igniter 	Measure resistance of terminal to terminal	Resistance value: 100~800Ω	<ul style="list-style-type: none"> • Gas type
12. Frame Detect 	Measure resistance of terminal to terminal ∅ Open at 370°F ((Maximum) ∅ Close at 320°F	∅ Resistance value ∅ ∞ ∅ Resistance value < 1Ω	<ul style="list-style-type: none"> • Gas type

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>∅ Open at $203 \pm 7^{\circ}\text{F}$ ($95 \pm 5^{\circ}\text{C}$)</p> <p>∅ Close at $158 \pm 9^{\circ}\text{F}$ ($70 \pm 5^{\circ}\text{C}$)</p>	<p>∅ Resistance value ∅ ∞</p> <p>∅ Continuity $< 1\Omega$</p>	<ul style="list-style-type: none"> • Gas type • Gas funnel
<p>14. Outlet Thermostat (Manual reset)</p>  <p>• Check Top Marking: N100</p>	<p>Measure resistance of terminal to terminal</p> <p>∅ Open at $212 \pm 12^{\circ}\text{F}$ ($100 \pm 7^{\circ}\text{C}$)</p> <p>∅ Manual reset</p>	<p>If thermal fuse is open must be replaced</p> <p>∅ Resistance value ∅ ∞</p> <p>∅ Continuity $< 1\Omega$</p>	<ul style="list-style-type: none"> • Gas type • Gas funnel

6

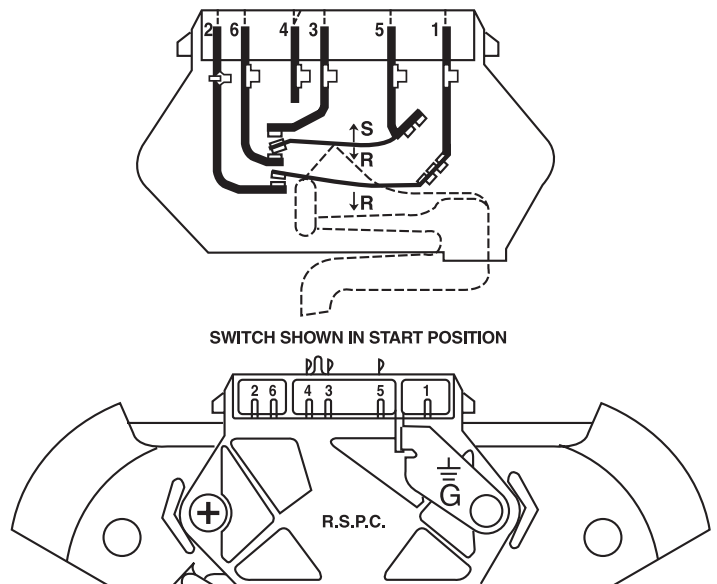
MOTOR DIAGRAM AND SCHEMATIC

NOTE When checking Component, be sure to turn Power off, then do voltage discharge sufficiently.

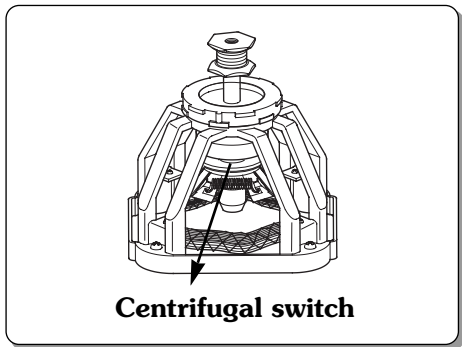
■ Contact On / Off by Centrifugal Switch

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

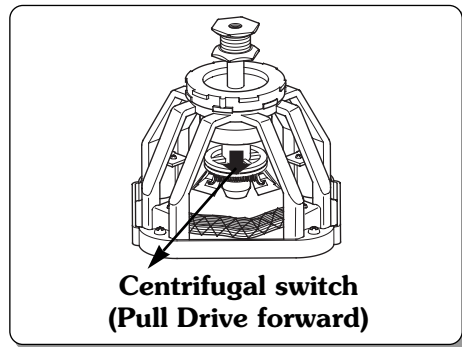
..... Open
 ——— Close



■ STOP MODE
 (When Motor does not operate)



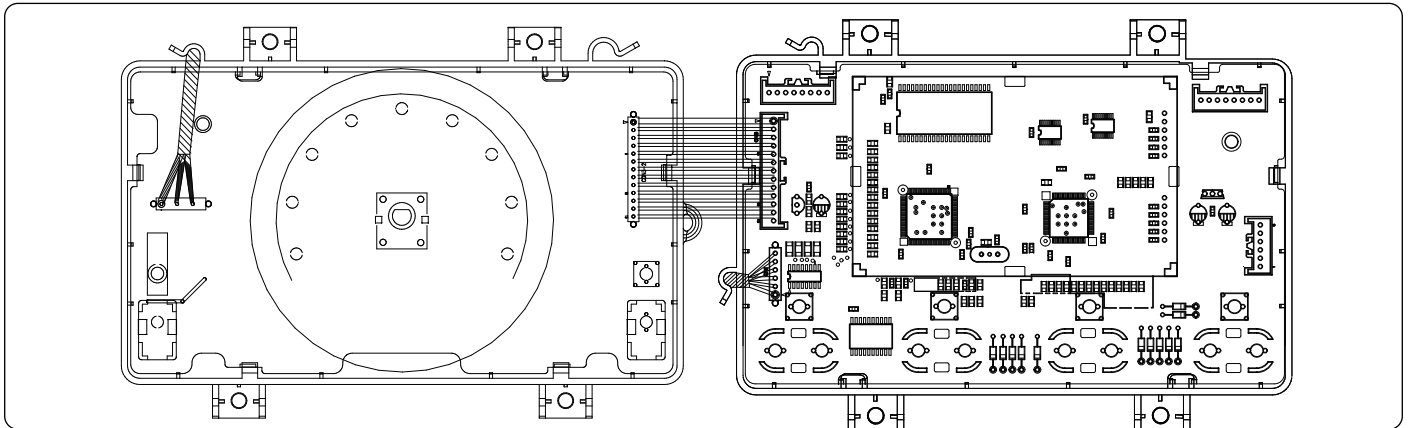
■ RUN MODE
 (Motor operates)



7

CONTROL LAY - OUT

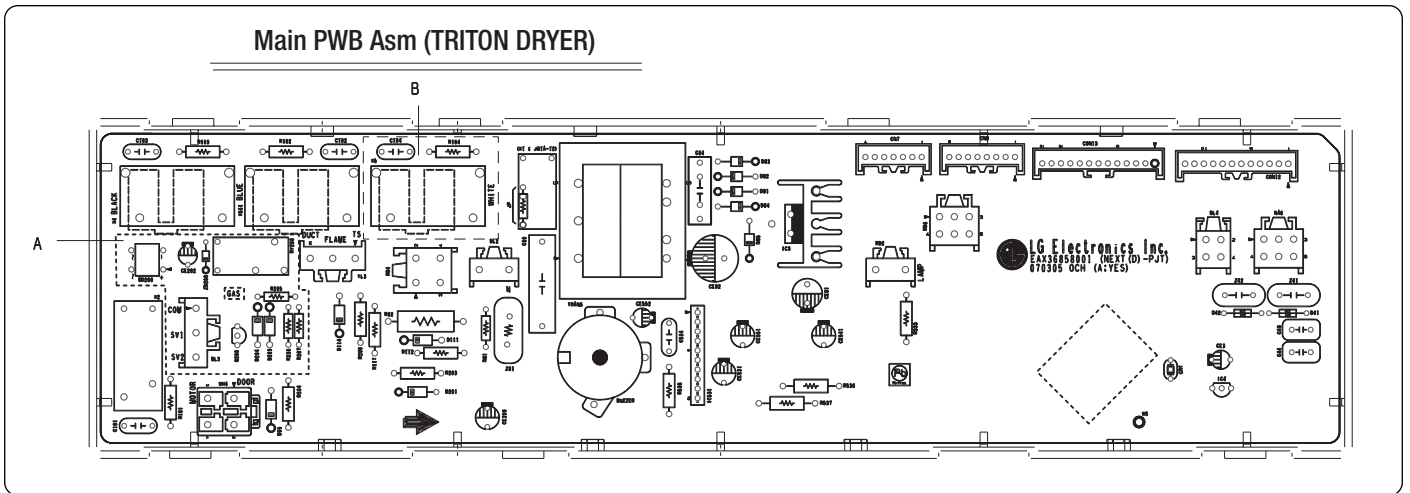
PWB ASSEMBLY DISPLAY LAYOUT



※ 7-SEG Display in QC-Test MODE

DISPLAY P/NO	MAIN P/NO	7-SEG DISPLAY	NOTE
EBR39326101	EBR36858805	18:88	Electric, Triton(D) LCD, North America
	EBR36858806	18:88	Gas, Triton(D) LCD, North America

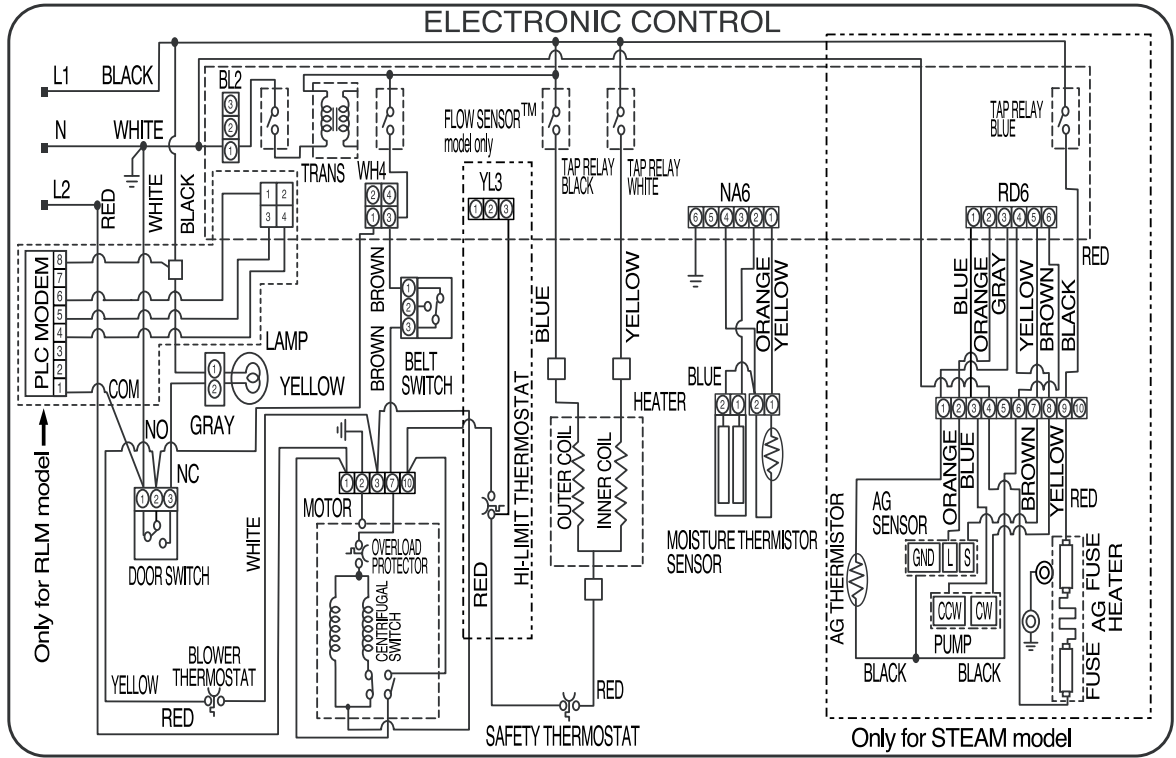
PWB ASSEMBLY LAYOUT



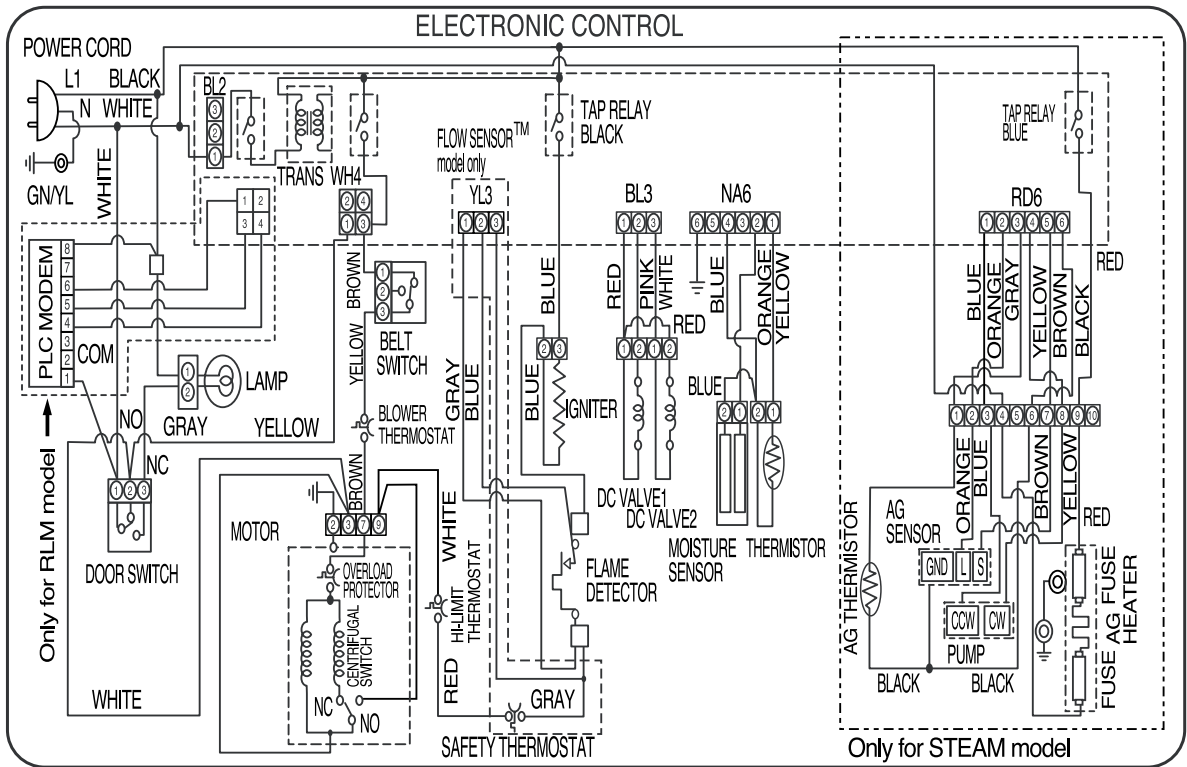
※ MODEL AS DIAGNOSTIC TEST

P/N	A	B x5	GAS	Elec	STEAM 0	STEAM X	(110V/220V)		DUCT SENSING	MICOM	NOTE		
			R226	R178	R227	R179	R228	R180	TRANS			R112,334	R117
01	x	o	x	o	x	o	x	o	6170EC1006F	100K, 1/2W	200K, 1/2W	BOM	Elec Triton(D) LCD North America
02	o	x	o	x	x	o	x	o	6170EC1006F	100K, 1/2W	100K, 1/2W	BOM	Gas Triton(D) LCD North America

ELECTRIC DRYER WIRING DIAGRAM



GAS DRYER WIRING DIAGRAM



9-1. Steam Cycle Guide

	STEAM	DEFAULT TIME	TEMP. CONTROL	DRY LEVEL	FABRIC STATE	FABRIC TYPE	MAXIMUM AMOUNT
STEAM FRESH		STEAM FRESH™ (20 minutes)	O		Dry	Comforter Shirts *except specially delicate fabrics	Single (1 each) 5 each
	+ REDUCE STATIC	STEAM FRESH™ (10 minutes)	O		Dry	Shirts *except specially delicate fabrics	8 lbs.
	+ EASY IRON	STEAM FRESH™ (12 minutes)	O		Dry		Shirts (5 each)
STEAM OPTION	+ REDUCE STATIC	HEAVY DUTY COTTON/TOWELS NORMAL PERM.PRESS DELICATES ULTRA DELICATE		O	Wet	Follow selected cycle	8 lbs.
	+ EASY IRON			O	Wet	Follow selected cycle	Shirts (5 each)
TIME DRY	+ REDUCE STATIC	TIME DRY (45 minutes)	O		Wet	Follow selected temp.	8 lbs.
	+ EASY IRON	TIME DRY (47 minutes)	O		Wet	Follow selected temp.	Shirts (5 each)

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.

9-2. Troubleshooting for Steam Dryer

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Water drips from nozzle when Steam Cycle starts.	<ul style="list-style-type: none"> This is normal. 	<ul style="list-style-type: none"> This is steam condensation. The dripping water will stop after a short time.
The drum does not turn during Steam Cycle.	<ul style="list-style-type: none"> This is normal. 	<ul style="list-style-type: none"> The drum is turned off and only tumbles intermittently so that the steam vapor remains in the drum.
Can not see steam vapor at the beginning of cycle.	<ul style="list-style-type: none"> This is normal. 	<ul style="list-style-type: none"> Steam is released at different stages of the cycle for each option. Steam will not normally be visible, although condensation may form on the inside of the door.
The display shows: <i>bl 9</i> or BULKY LOAD	<ul style="list-style-type: none"> MORE TIME pressed. 	<ul style="list-style-type: none"> Pressing the MORE TIME button several times will set the cycle for a big load such as a comforter. (LED: <i>bl 9</i>, LCD: BULKY LOAD)
Steam is not visible during Steam Cycle.	<ul style="list-style-type: none"> This is normal. 	<ul style="list-style-type: none"> Steam vapor is difficult to see when the door is closed, although condensation may form on the inside of the door.
Top plate of the dryer is very warm.	<ul style="list-style-type: none"> This is normal. 	<ul style="list-style-type: none"> Top plate gets very warm during steam operation.

9-3. Display Fault/Error Codes for Steam Dryer

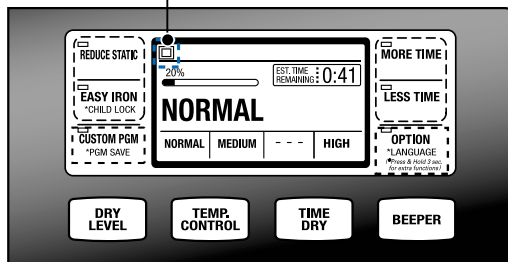
The error codes below will be displayed when attempting to start a drying cycle, or after activating the Diagnostic Test mode.

DISPLAY	CHECKING PART	CAUSE	REMARK
tE4	Thermistor of steam generator	Steam generator thermistor open or shorted.	<ul style="list-style-type: none"> tE4 error is only displayed in the test mode. Replace the steam generator.
Add Water	Steam generator	Sensors do not detect that steam generator is full within 60 seconds.	<ul style="list-style-type: none"> If water in the steam feeder is not enough this error may be displayed. Fill the feeder and restart the cycle.
E5	Pump	When the AD value of the pump less than 10 in the test mode.	<ul style="list-style-type: none"> E5 error is only displayed in the test mode. Replace the steam feeder pump.

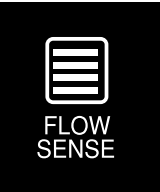
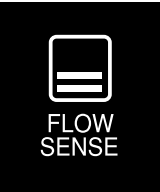
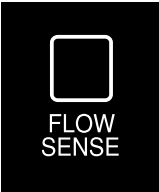
10-1 Flow sensor

This FlowSense™ function detects the clogging or blocking of ducts. “Clogged” duct vents or hoses decrease efficiency in drying clothes. Clogged vents can also cause fire. This function alarms you, when to clean the ducts. 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 ?

 FLOW SENSE	 FLOW SENSE	 FLOW SENSE
4 Bars	2 Bars	NO Bars
CLOGGED Check and Clean Duct.	NORMAL Duct OK. The Dryer can work.	

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.

10-2 Installation check

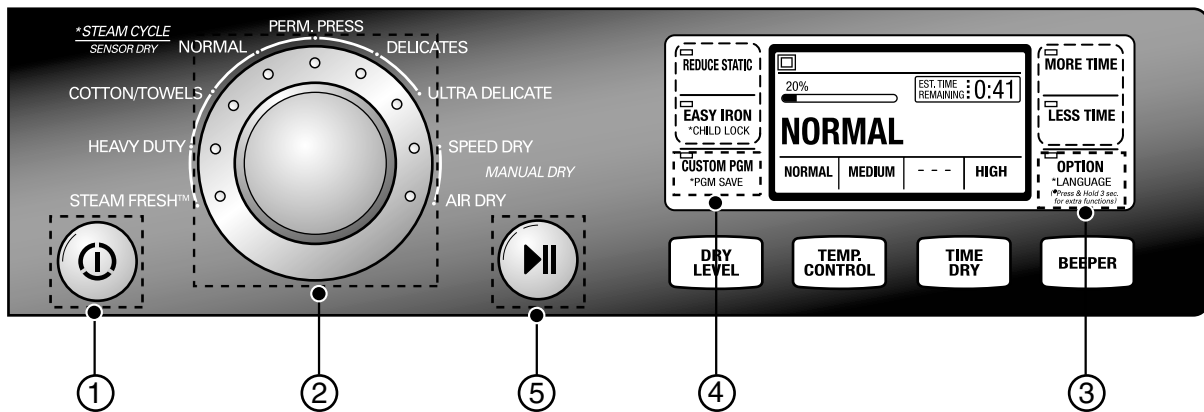
This feature allows you to quickly verify that the exhaust system is adequate for the normal function of the dryer. The check takes only two minutes. The results of the check are displayed in the FlowSense display window as shown below

(Fig. 1). The dryer must be at room temperature for this test to be reliable. To perform this test, start the machine following check steps.

- 1 Step :** Turn on the dryer by pushing the Power button
- 2 Step :** Turn the Knob right or left.
- 3 Step :** Press the option button one time, it'll be displayed Off.
- 4 Step :** Press CUSTOM PGM one time, it'll be change Off to On
- 5 Step :** Press the Start button When display the "FLOW CHECK" in screen, "FLOW CHECK" will be displayed from pushing the EXIT button or waiting 3 seconds.

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....

OR

COMPLETED FLOW CHECK

THE DUCTWORK IS FREE FROM BLOCKAGES OR RESTRICTIONS.

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

NEED FLOW CHECK

THE DUCTWORK HAS A BLOCKAGE THAT NEEDS TO BE REMOVED IMMEDIATELY.

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

10-3 Troubleshooting for flow sensor dryer

1. Flow sensor bars light up

Is Lint Filter full?



Clean lint filter before every load



Is Duct clogged?



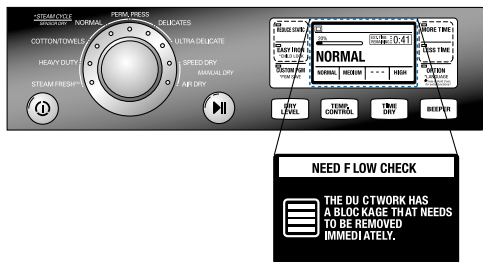
Check & clean duct.

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

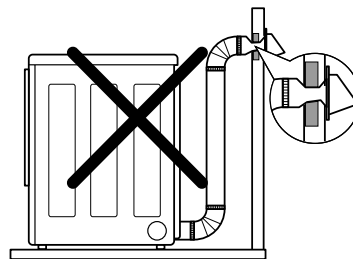
- Flow sensor lights up 2 bars even when vents have been clean and even when the vents are off.
 → **This is Normal.** After Flow sensor Recheck Full Next Cycle, Flow sensor is Reset.
 (Flow sensor bars will disappear after Dryer has operated two cycle)
- Is Flow sensor display changed from 4 bars to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

■ Displayed and Don't disappear Bars

*Control Panel

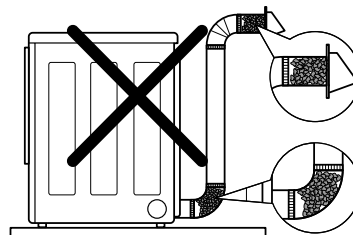
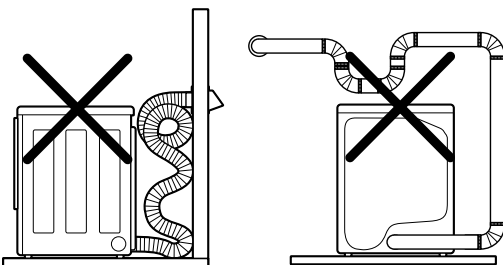


Make sure that the ductwork is not crushed or restricted.



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

Check for blockages and lint build up.



11

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 & Temperature sensor	8E9(Elec Type) 898(Gas Type)	Standard
		V00	PGM Ver (8E8-V008E8)
		tE1	Thermistor open
		tE2	Thermistor shorted
		tE4	AG Thermistor open or shorted
Once	Motor+Controller	30 = Low moisture 239 = High moisture	Motor runs Displays Moisture Sensor Operation : If moisture sensor is contacted with damp cloth. The display number is below 180 in normal condition
Twice	<ul style="list-style-type: none"> ■ ELECTRIC TYPE Motor+Heater1(2700W) ■ GAS TYPE Motor+Gas valve 	Current Temp. (5~70)	<ul style="list-style-type: none"> ■ ELECTRIC TYPE Heater 1 is energized - 2700 W ■ GAS TYPE Valve runs (Temperature in the drum is displayed in degrees C.)
3 times	<ul style="list-style-type: none"> ■ ELECTRIC TYPE Motor+Heater1+Heater2 (5400W) ■ GAS TYPE Motor+Gas valve 	Current Temp. (5~70)	<ul style="list-style-type: none"> ■ 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.)
4 times	Motor+Pump+ Heater2(runs for 1sec) (Heater1 off)	11 = Low pump* 255 = High pump*	Pump runs
		E5	Pump Error
5 times	Motor,Pump,Heater2 off	OO	
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

Caution	When measuring power, be sure to wear insulated gloves, to and avoid an electric shock.	
Trouble Symptom	No power was applied to Controller. (LED,LCD Display off)	
Measurement Condition	With Dryer Power On; Connector linked to Controller.	
<pre> graph TD Q1[Check the outlet, is the voltage 110V ~ 125V AC?] -- NO --> A1[• Check the fuse or circuit breaker.] Q1 -- YES --> Q2[Check if the voltage measured between Connector BK2 or WH2-2 (Black Wire) Linked to the Controller and BL2-1 (White Wire) Is 110~125V?] Q2 -- NO --> A2[• Check if Power Cord is properly connected.] Q2 -- YES --> Q3[1 Check if the Controller wire is disconnected. 2 Check if Terminal Block and Power Cord are connected (Check Plug). - Does Power Cord N (Natural) line match to Terminal Center N (Natural) line?] Q3 -- NO --> A3[• Reconnect the controller.] Q3 -- YES --> A4[Replace controller.] </pre>		

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

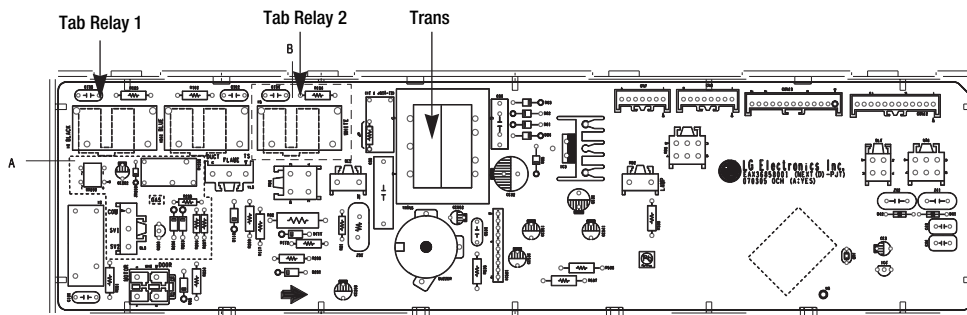
1. Power Connection

< Table1 > : Connection of the 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 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	○	○	Temperature Control below $70 \pm 4^{\circ}\text{C}$. Turn on Burner
Low Extra Low	○	○	Temperature Control below $47 \pm 4^{\circ}\text{C}$. Turn on Burner



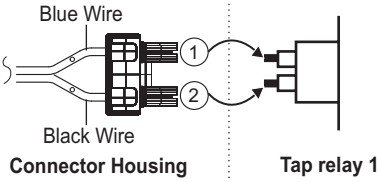
* PCB ASSEMBLY LAYOUT

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)

< 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	Heater2	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)

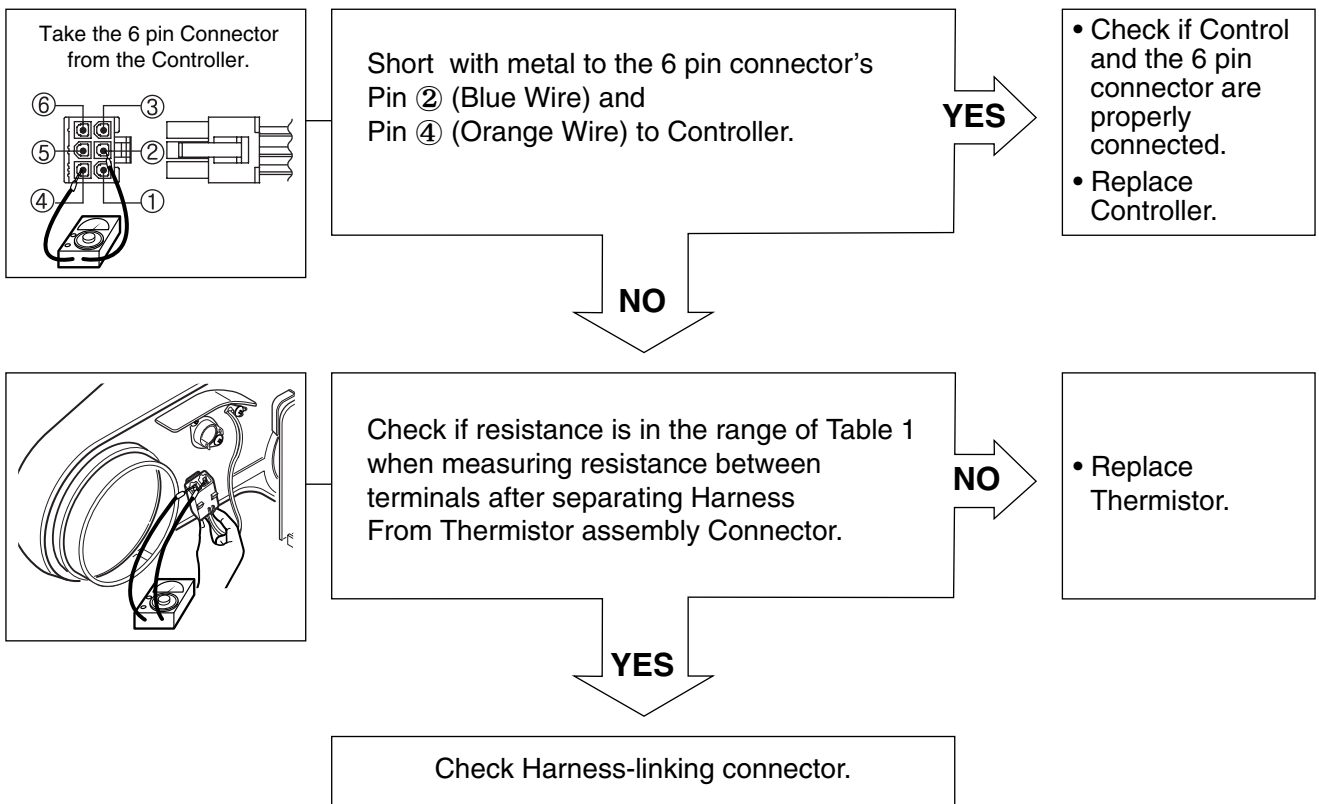
Items	Case	Heater1 Operation(black)	Heater2 operation(White)	PCB condition Of operation
1.Black and White Housing	Wire ①, ② CROSS	Off	Off	Power Off

⚠ CAUTION

- In case of power failure(<Table1>-1,2,5,<Table2>-1), Please check the Connection of "2.Status Table of Connection".
 In case of power failure(<Table1>-4), please check the Connection of "2. Status Table of Connection". Because improper Connection of the equipment-dryer can be damaged of changing heater.

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

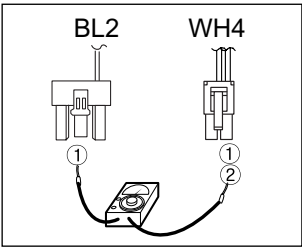
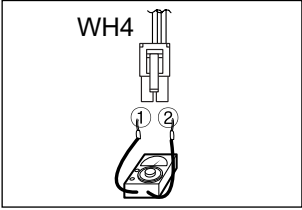
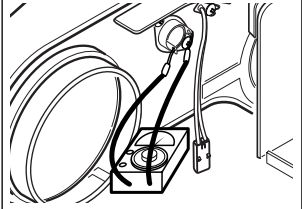
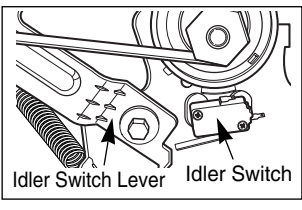
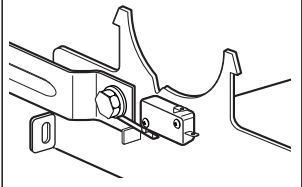
Caution	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with the Ground.)
Trouble Symptom	<ul style="list-style-type: none"> ① During Diagnostic Test, tE1 and tE2 Error occur. ② During operation, Heater would not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



■ Table 1. Resistance for Thermistor Temperature.

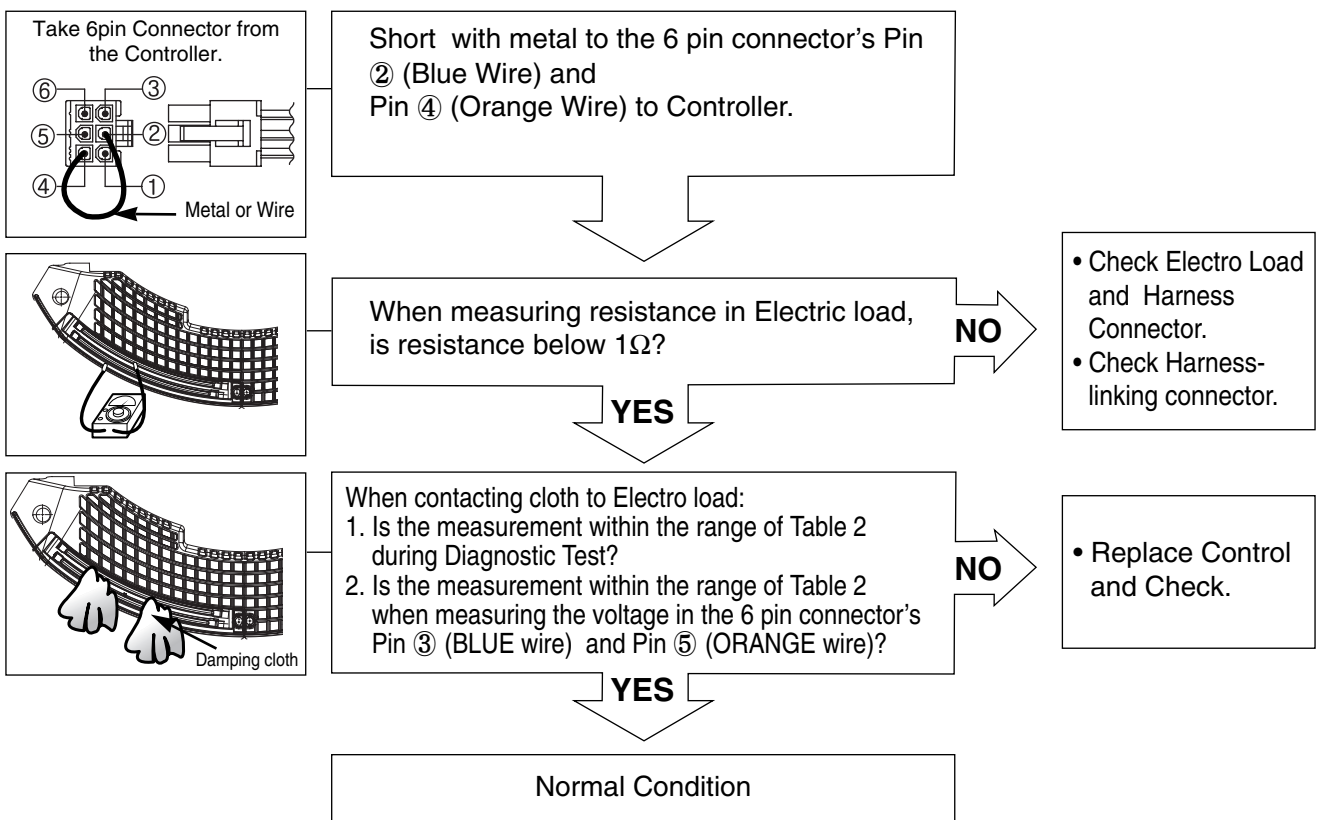
Air TEMP.[°F (°C)]	RES. [kΩ]	Air TEMP.[°F (°C)]	RES. [kΩ]	Air TEMP.[°F (°C)]	RES. [kΩ]
50°F (10°C)	18.0	90°F (32°C)	7.7	130°F (54°C)	2.9
60°F (16°C)	14.2	100°F (38°C)	6.2	140°F (60°C)	3.0
70°F (21°C)	11.7	110°F (43°C)	5.2	150°F (66°C)	2.5
80°F (27°C)	9.3	120°F (49°C)	4.3	160°F (71°C)	2.2

■ Test 3 Motor test

<p>Caution</p>	<p>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.)</p>
<p>Trouble Symptom</p>	<p>Drum will not rotate; No fan will function; No Heater will work.</p>
<p>Measurement Condition</p>	<p>Turn the Dryer's Power Off, then measure resistance.</p>
    	<p>Is resistance below 3Ω between Connector BL2① (White wire) and WH4-② (Brown wire)? \emptyset Measure while door is closed.</p> <p>YES →</p> <ul style="list-style-type: none"> • Replace Control. (Relay check) • Check Controller connector. <p>NO ↓</p> <p>Is resistance below 3Ω between Connector BL2① (White wire) and WH4-① (Yellow wire)? \emptyset Measure while door is closed.</p> <p>NO →</p> <ul style="list-style-type: none"> • Check if Door flame presses door switch knob. • Check Door Switch. • Check Harness connection. <p>YES ↓</p> <p>Is resistance below 3Ω between Connector WH4-① (Yellow wire) and WH4-② (Brown wire)?</p> <p>YES →</p> <ul style="list-style-type: none"> • Replace Control. (Relay check) • Check Controller connector. <p>NO ↓</p> <p>Is resistance below 1Ω between terminals of Outlet Thermostat attached to blower housing?</p> <p>NO →</p> <ul style="list-style-type: none"> • Replace Outlet • Thermostat. (Refer to 'Component') <p>YES ↓</p> <p>Does Idle Switch attached to Motor Bracket operate Level by drum belt? (Not operating Lever is normal.)</p> <p>YES →</p> <ul style="list-style-type: none"> • Check Idler Assembly. • Drum Belt cuts off • Drum Belt takes off from Motor Pulley. <p>NO →</p> <ul style="list-style-type: none"> • Replace Idler Switch. <p>YES ↓</p> <ul style="list-style-type: none"> • Check Motor. (Refer to 'Motor Diagram & Check') • Check if Control Connector is contacted.

■ Test 4 Moisture sensor

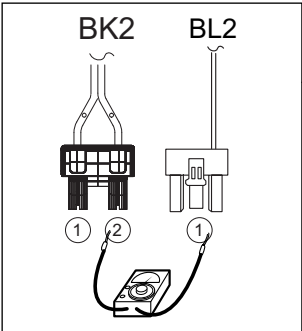
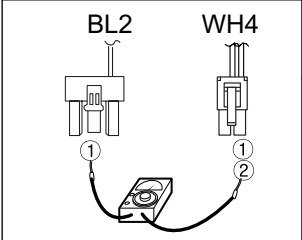
Caution	Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)
Trouble Symptom	Degree of dryness does not match with Dry Level.
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.



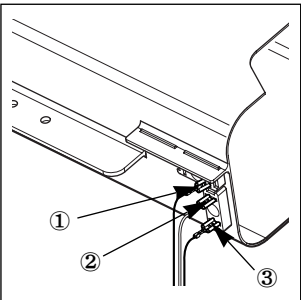
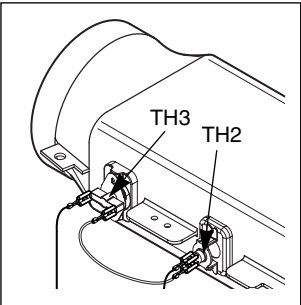
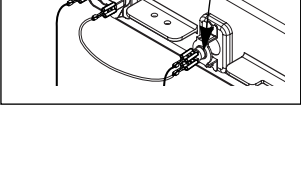
■ Table 2. IMC Ratio and Display Value / Voltage (IMC: Initial Moisture Content)

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

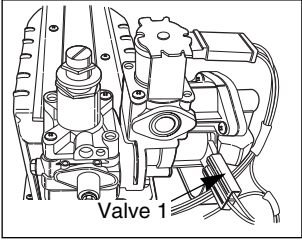
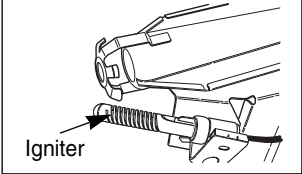
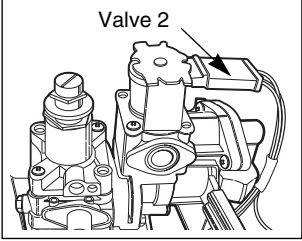
■ Test 5 Door switch test

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	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.)	
Measurement Condition	After turning Dryer Power Off, measure resistance.	
	<p>Measure while Door is closed. Check it resistance is below 2500 Ω between BL2-①(White wire) and BK2-② Connector BL2,WH4 after taking BL2,WH4 out from Controller.</p> <p style="text-align: right;">YES</p> <p style="text-align: center;">NO</p> <p>Measure while Door is open. Check it resistance is 300~60 Ω between BL2-①(White wire) and BK2-② (Black wire). Connector BL2,WH4 after taking BL2,WH4 out from Controller.</p> <p style="text-align: right;">NO</p> <p style="text-align: center;">YES</p>	<ul style="list-style-type: none"> • Door switch Check (Refer to Component testing.) <ul style="list-style-type: none"> • Check Lamp. (When opening Lamp, replace then measure again.) • Door switch Check(Refer to Component testing.)
	<p>Measure while Door is open. Check it resistance is below 1 Ω between WH4- ①(Yellow wire) and BL2-①(White wire) after taking Connector BL2,WH4 out from Controller.</p> <p style="text-align: right;">YES</p> <p style="text-align: center;">NO</p> <p>Measure while Door is closed. Check it resistance is below 1 Ω between WH4- ①(Yellow wire) and BL2-①(White wire) after taking Connector BL2,WH4 out from Controller.</p> <p style="text-align: right;">NO</p> <p style="text-align: center;">YES</p> <p style="text-align: center;">Check Controller. Check Harness-linking connector.</p>	<ul style="list-style-type: none"> • Door switch Check (Refer to Component testing.) <ul style="list-style-type: none"> • Door switch Check (Refer to Component testing.)

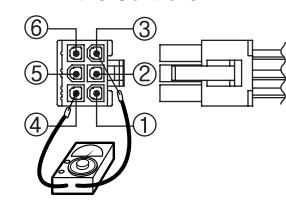
■ Test 6 Heater switch test - Electric Type

<p>Caution</p>	<p>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.)</p>	
<p>Trouble Symptom</p>	<p>While operating, Heating will not work. Drying time takes longer.</p>	
<p>Measurement Condition</p>	<p>After turning Power off, measure the resistance.</p>	
	<ol style="list-style-type: none"> 1. Is resistance between Heater terminal ① and ② below 18 ~ 22Ω? 2. Is resistance between Heater terminal ① and ③ below 18 ~ 22Ω? 3. Is resistance between Heater terminal ② and ③ below 9 ~ 11Ω? 	<p>NO</p> <ul style="list-style-type: none"> • Replace Heater.
<p>YES</p>		
	<p>Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety Thermostat).</p>	<p>NO</p> <ul style="list-style-type: none"> • Replace TH2 (Safety Thermostat) and TH3 (Hi-Limit thermostat)
<p>YES</p>		
	<p>Check if the value of measured resistance is below 1Ω between terminal TH3 (HI-Limit Thermostat).</p>	<p>NO</p> <ul style="list-style-type: none"> • Replace TH2 (Safety Thermostat) and TH3 (Hi-Limit thermostat)
<p>YES</p>		
<p>Check Motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑩ at RUN condition.</p>		<p>NO</p> <ul style="list-style-type: none"> • Check Motor and replace it.
<p>YES</p>		
<p>Check Controller. Check Harness-linking Connector.</p>		

■ Test 7 GAS Valve test - Gas Type

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

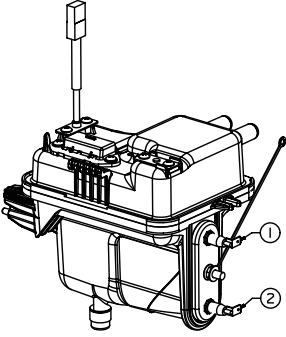
■ Test 8 Semi Conductor

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 $300 \pm 30 \Omega$
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> <p>Take 6pin Connector from the Controller.</p>  </div> <div style="border: 1px solid black; padding: 10px; flex-grow: 1;"> <p>When measuring resistance ③-④, ④-⑤ Is resistance $300 \pm 20 \Omega$?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>YES</p> <p>↓</p> </div> <div style="text-align: center;"> <p>NO</p> <p>→</p> </div> </div> </div> <div style="border: 1px solid black; padding: 10px; margin-left: 20px;"> <ul style="list-style-type: none"> • Check Semi-conductor and Harness Connector • Check Harness linking connector </div> </div>	

■ 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 occur.
Measurement Condition	Turn the Dryer's Power Off, then measure resistance.
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 10px; margin-right: 20px;"> <p>After activating the *diagnostic test, press START/PAUSE button 4 times. Is AD value displayed higher than 10 ?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>YES</p> <p>↓</p> </div> <div style="text-align: center;"> <p>NO</p> <p>→</p> </div> </div> </div> <div style="border: 1px solid black; padding: 10px; margin-left: 20px;"> <ul style="list-style-type: none"> • Replace the DC Pump </div> </div> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 30%; text-align: center;"> <p>Normal condition</p> </div>	
<p>* diagnostic test : go to page 22</p>	

■ Test 10 Generator Assembly

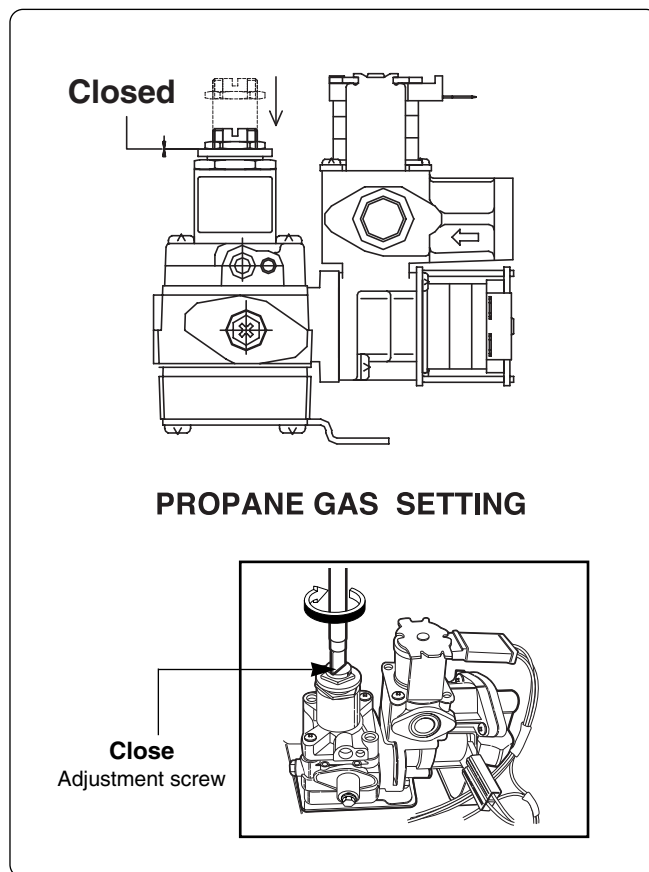
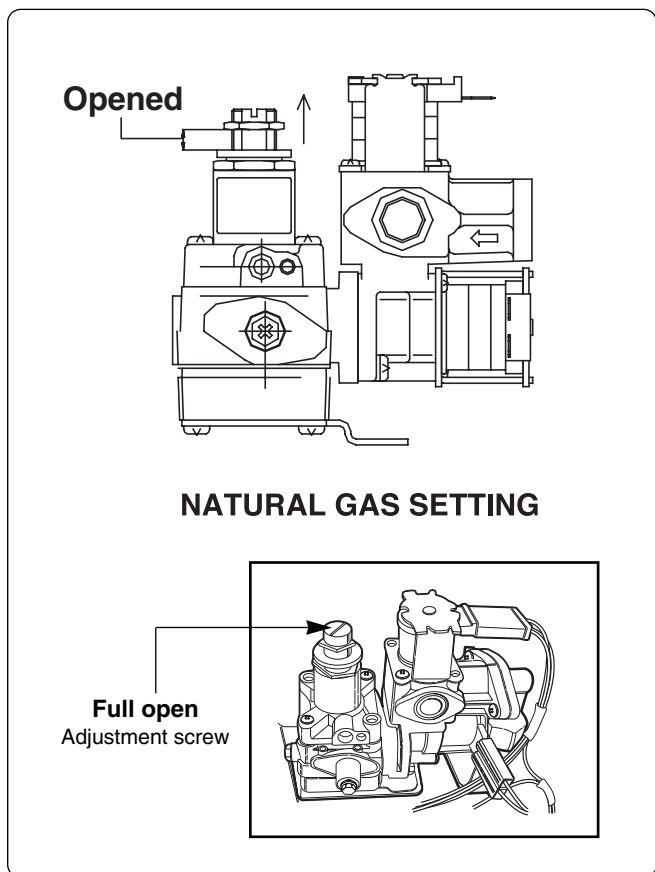
<p>Caution</p>	<p>Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)</p>
<p>Trouble Symptom</p>	<p>① During Steam cycle, Generator Assembly is not heating. ② During Diagnostic Test, tE4 Error occur.</p>
<p>Measurement Condition</p>	<p>Turn the Dryer's Power Off, then measure resistance.</p>
	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 10px; margin-right: 20px;"> <p>Is resistance $14.3 \Omega (\pm 5\%)$ between Heater terminal ① and ② ?</p> </div> <div style="font-size: 2em; margin-right: 20px;"> <p>NO</p> </div> <div style="border: 1px solid black; padding: 10px; margin-right: 20px;"> <p>YES</p> </div> <div style="border: 1px solid black; padding: 10px; margin-right: 20px;"> <p>Normal condition</p> </div> <div style="border: 1px solid black; padding: 10px;"> <ul style="list-style-type: none"> • Replace the Generator Assembly • If measured resistance value is ∞, replace the Generator Assembly too. </div> </div>

Warning

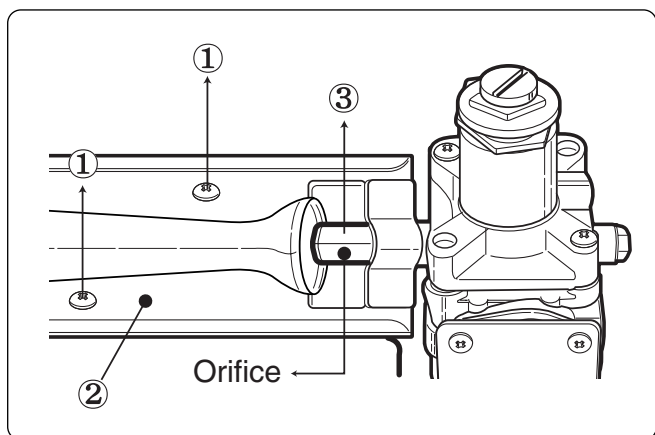
Changing orifices and gas valve adjustments improperly can result in an explosion and/or fire. Conversion must be made by a qualified technician.

Initially, Natural Gas mode is set. Propane Gas Orifice is on sale as a Service Part to authorized servicers only.

STEP 1 : VALVE SETTING



STEP 2 : ORIFICE CHANGE

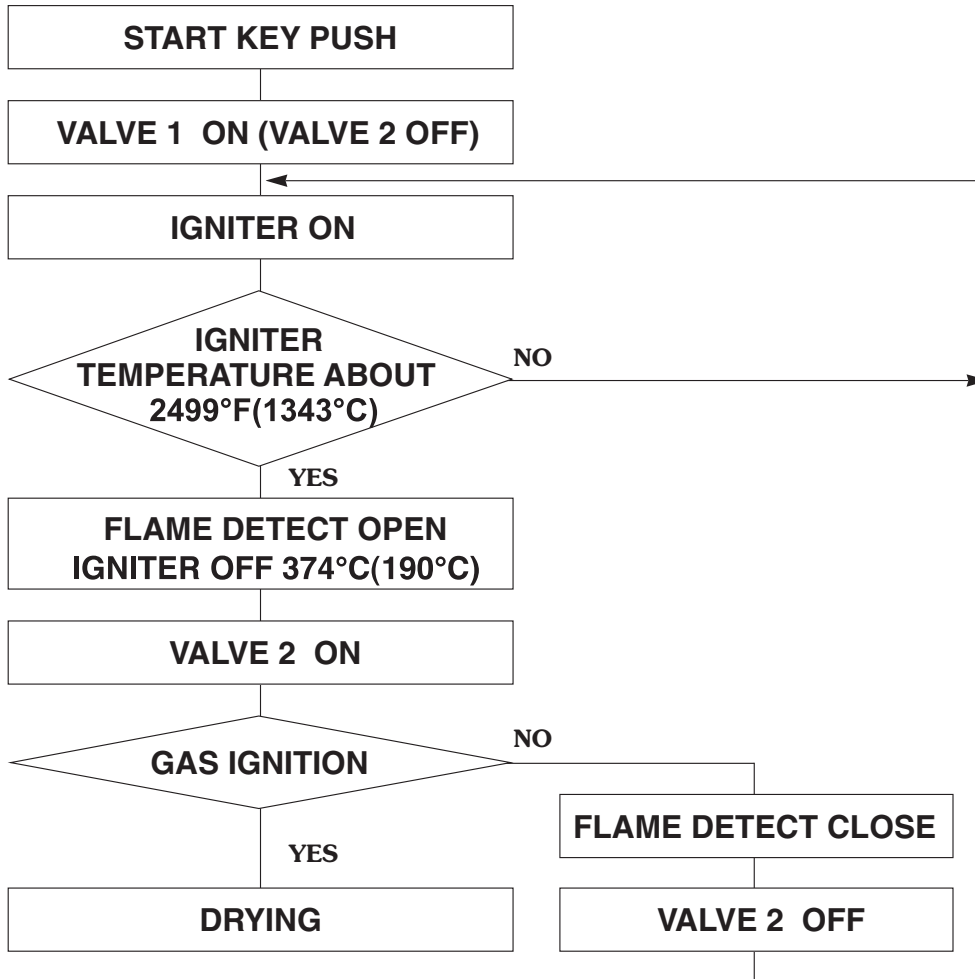


- ① Remove 2 screws.
- ② Disassemble the pipe assembly.
- ③ Replace Natural Gas orifice with Propane Gas orifice.

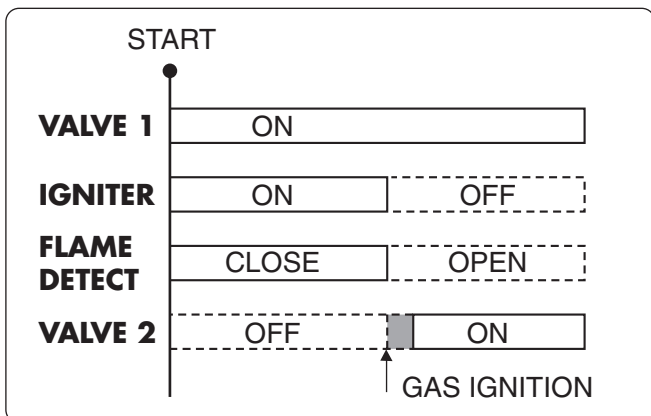
Gas type	Orifice P/No	Marking	Shape
Natural Gas	4948EL4001B	NCU	
Propane Gas	4948EL4002B	PCU	

※ **Kit contents:** Orifice (Dia. = 1.613mm, for Propane Gas)
 Replace Label
 Instruction Sheet

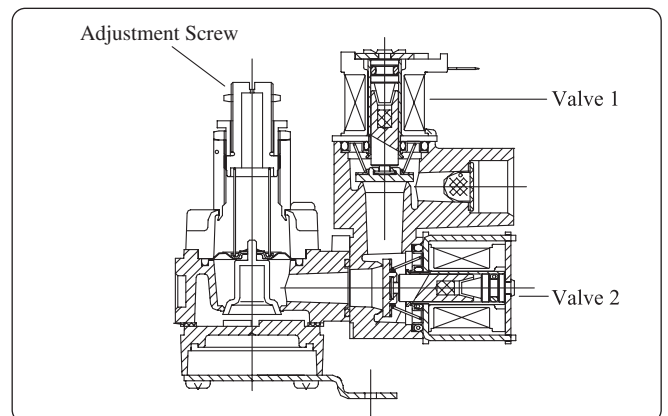
■ GAS VALVE FLOW



GAS IGNITION



GAS VALVE STRUCTURE



13

DISASSEMBLY INSTRUCTIONS

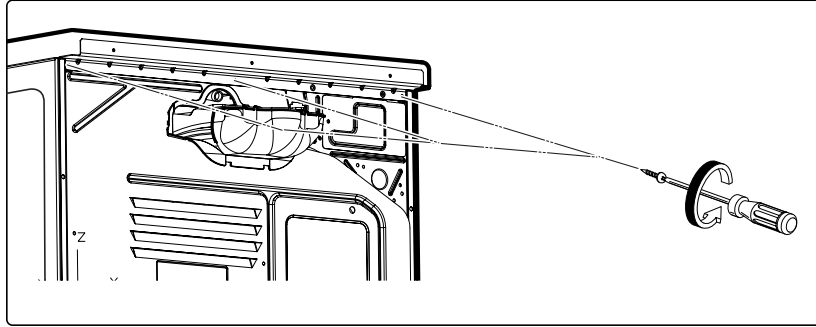
∅ Disassemble and repair the unit only after pulling out power plug from the outlet.

TOP PLATE

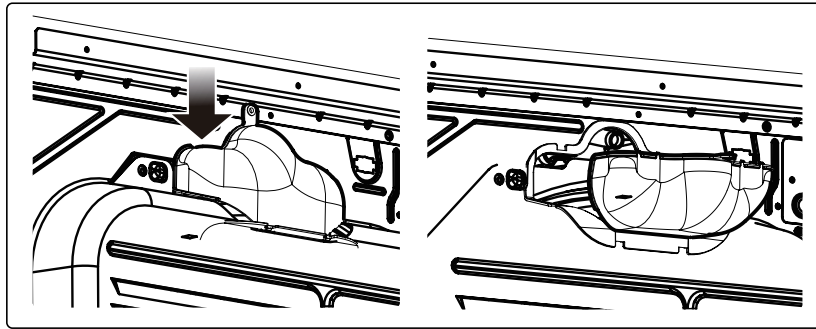
⚠ WARNING !

When you disassemble the top plate, be sure to take gloves and careful plate's edge. Failure to do so can cause serious injury.

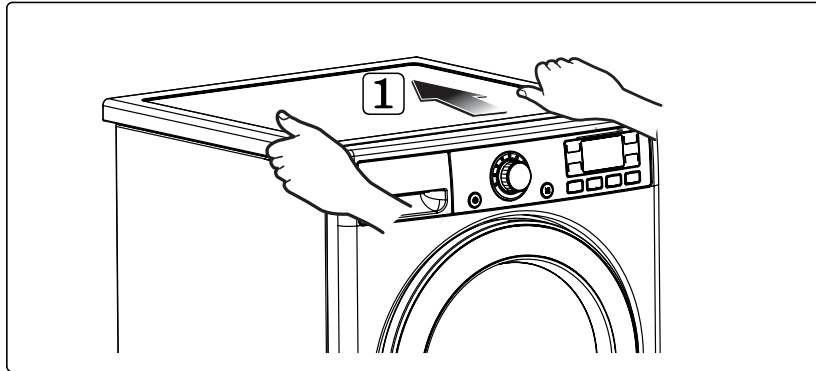
1. Remove 3 screws on the upper plate.



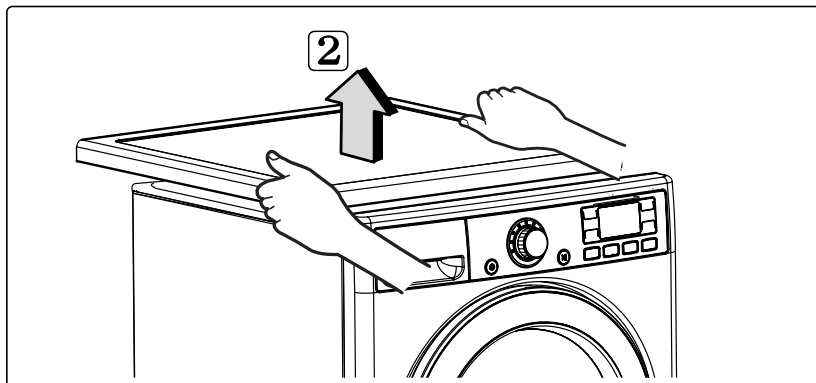
2. After pushing left side of the safety cover, open it.



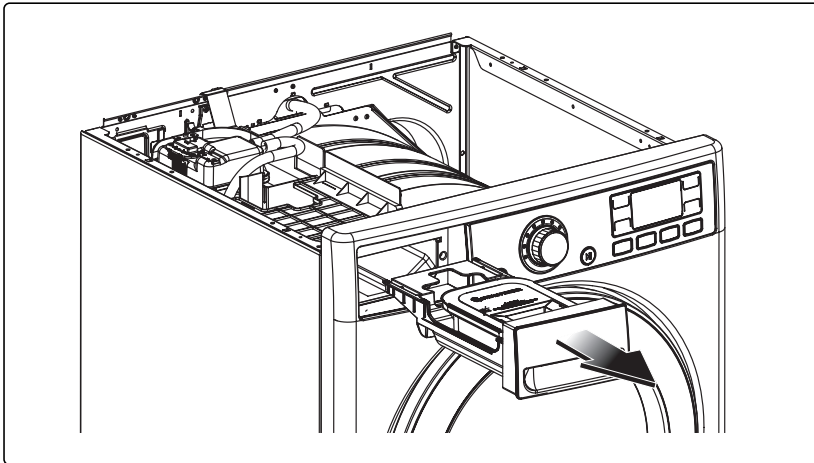
3. Push the top plate backward.



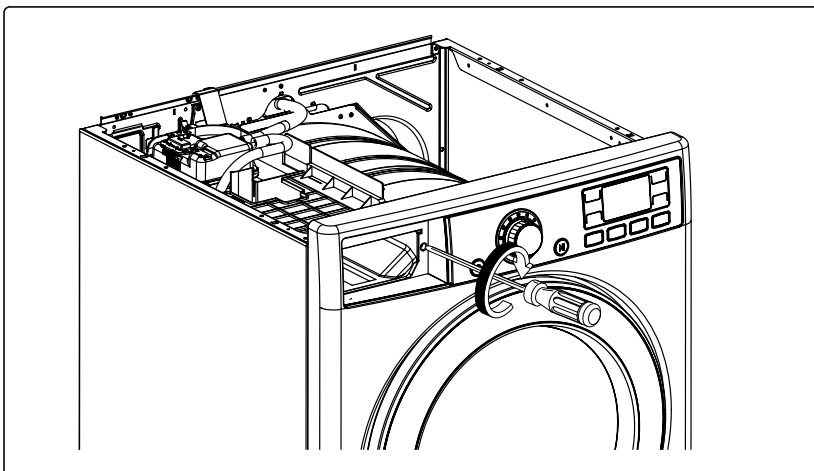
4. Lift the top plate



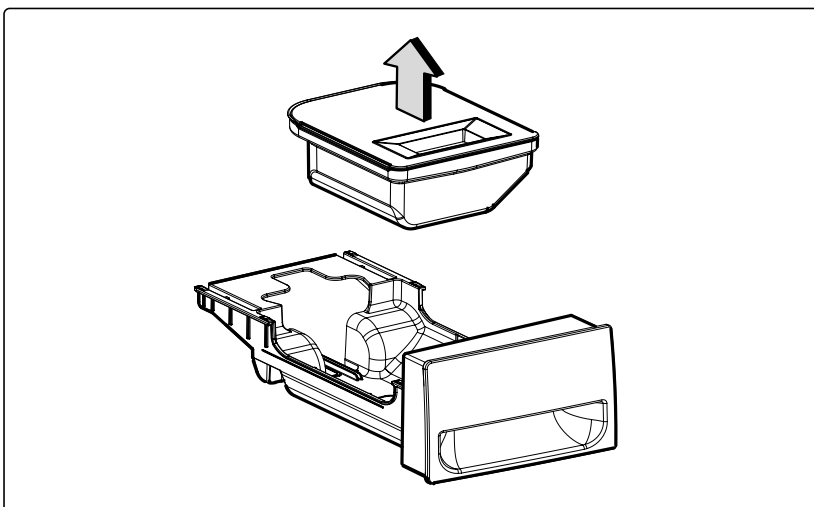
PANEL DRAWER ASSEMBLY



1. Pull out the drawer.

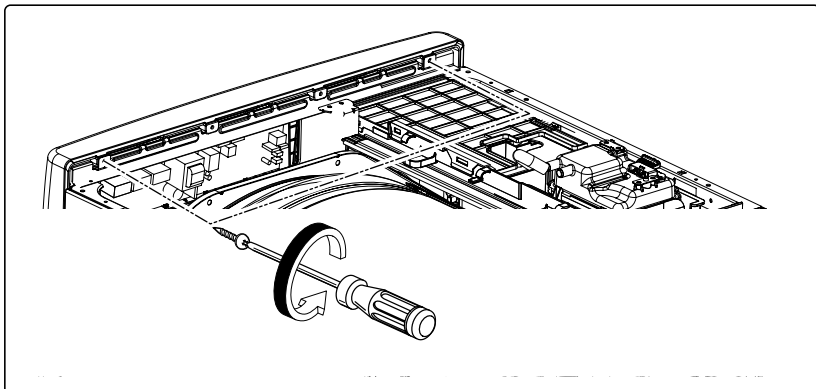


2. Unscrew one screw.



3. Lift out the Steam feeder.

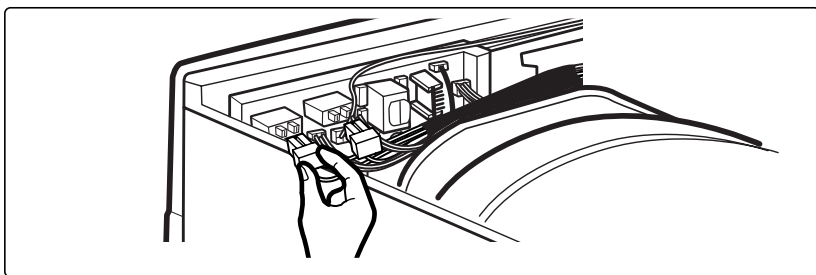
COVER CABINET ASSEMBLY / CONTROL PANEL ASSEMBLY



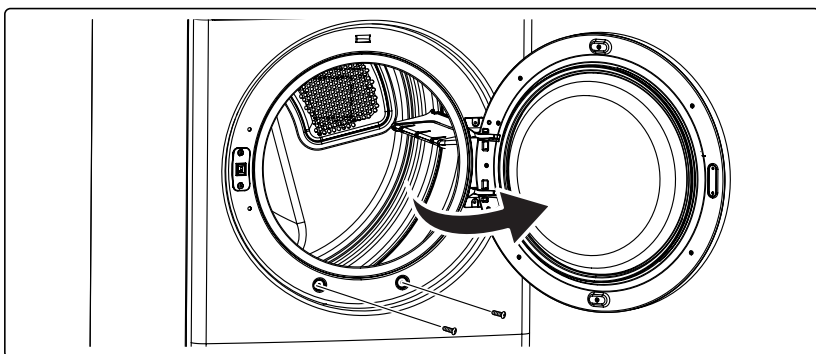
⚠ WARNING !

When you disassemble the control panel, be sure to take gloves and careful panel frame's edge. Failure to do so can cause serious injury.

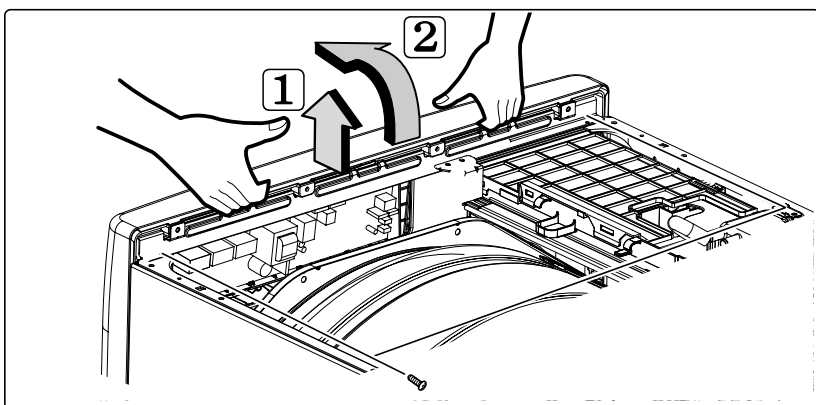
1. Remove 2 screws



2. Disconnect the connectors.

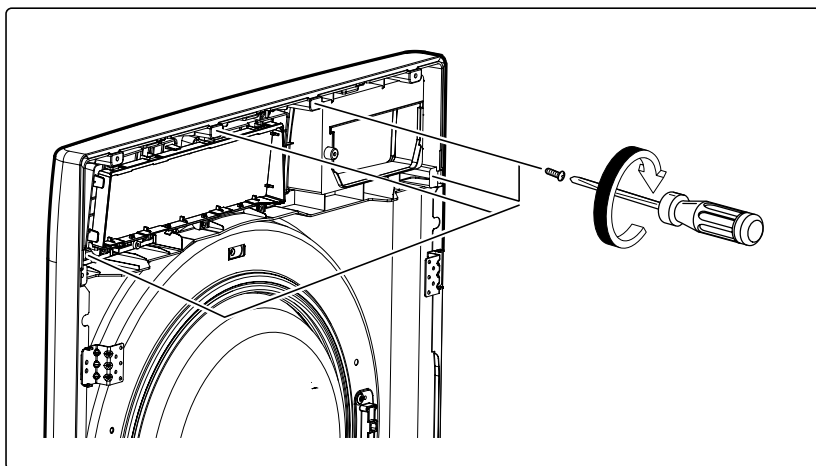


3. Remove 2 screws on cover cabinet assembly.



4. After pushing 2 hooks, pull the cover cabinet assembly upward and then backward.

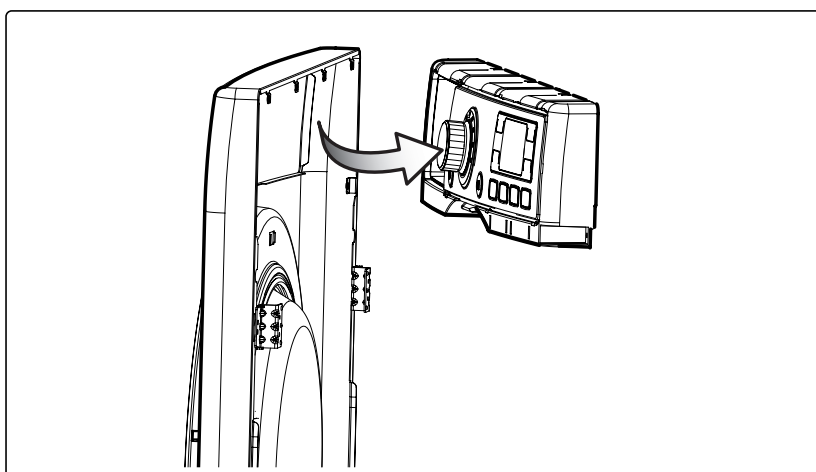
COVER CABINET ASSEMBLY / CONTROL PANEL ASSEMBLY



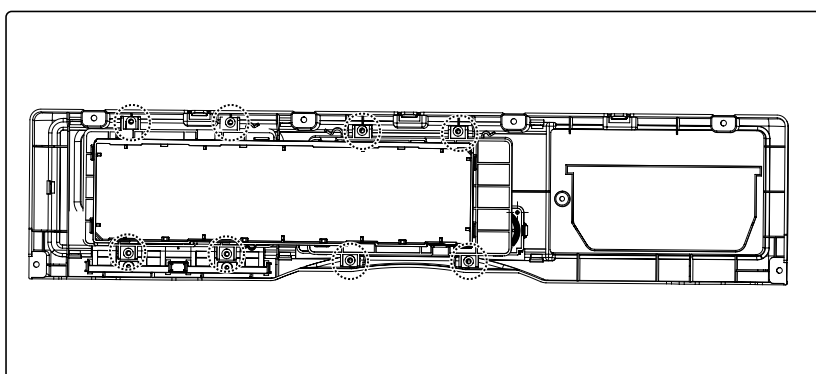
⚠ WARNING !

When you disassemble the door switch connector, be sure to take gloves and careful cabinet edge. Failure to do so can cause serious injury.

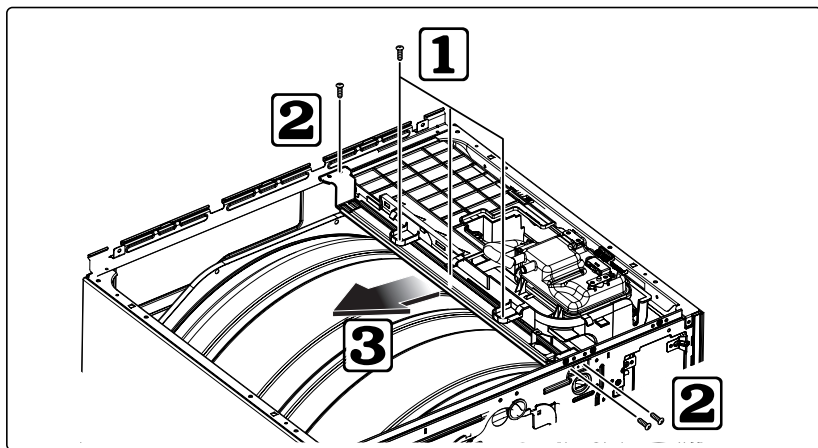
1. Remove 4 screws.
2. Disassemble the control panel assembly.



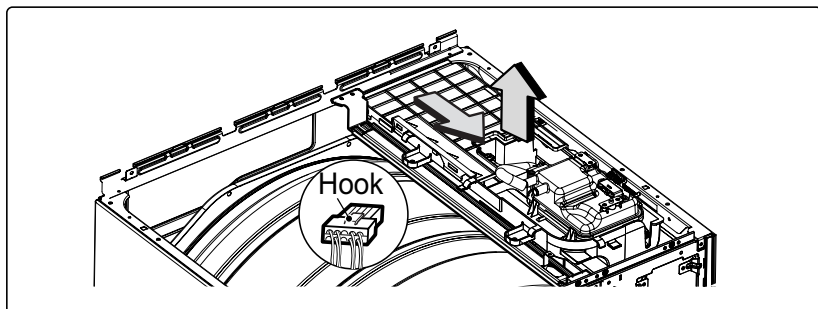
3. Remove 8 screws on the PWB(PCB) assembly, display.
4. Disassemble the PWB(PCB) assembly from control panel.



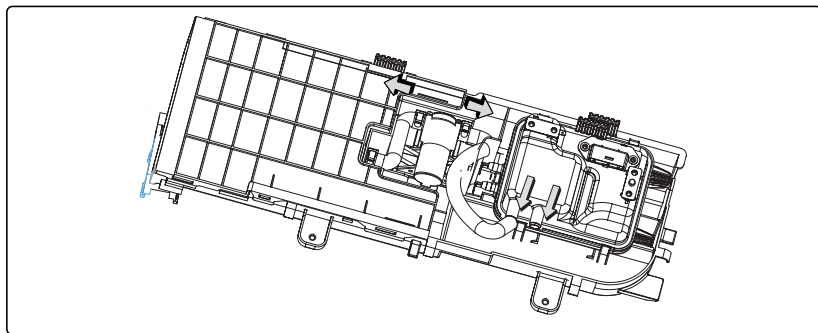
GUIDE ASSEMBLY



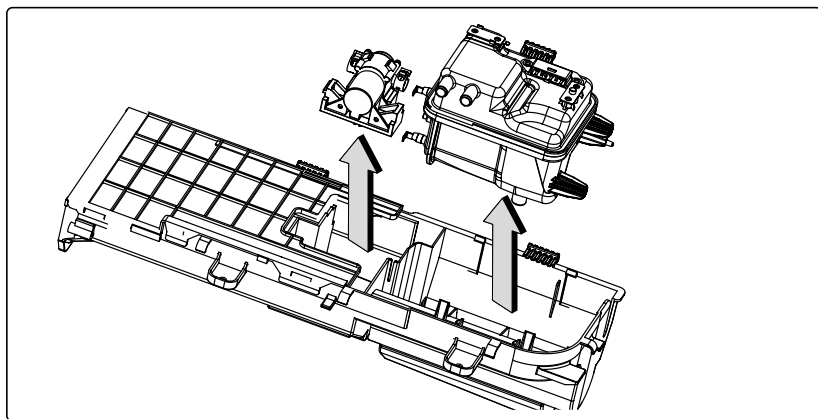
1. Taking out 3 screws from body frame.
2. Unscrew 3 screws from body frame.
3. Disassemble the body frame.



4. Push the housing hook then separate.
5. Push the guide assembly forward then lift it up.

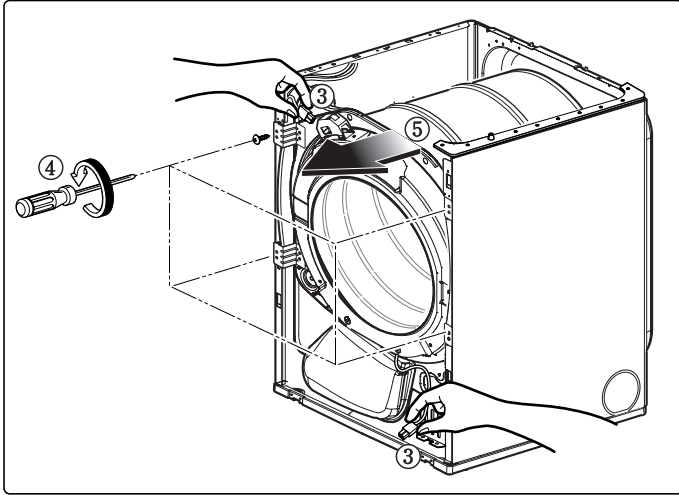


6. Separate hoses from the pump and Generator.



7. Lift a pump and a generator up.

TUB DRUM [FRONT]

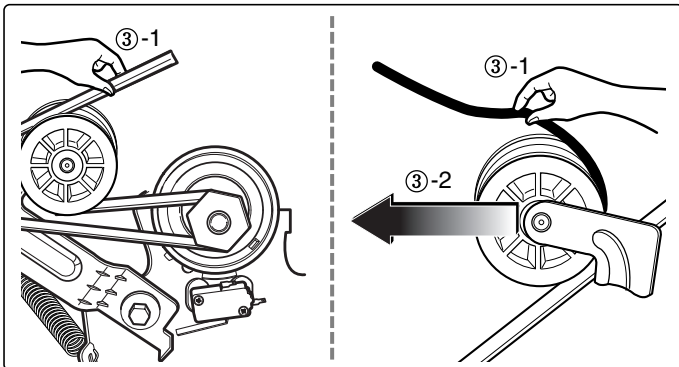


⚠ WARNING !

When you disassemble the lamp connector, be sure to take gloves and careful cabinet edge. Failure to do so can cause serious injury.

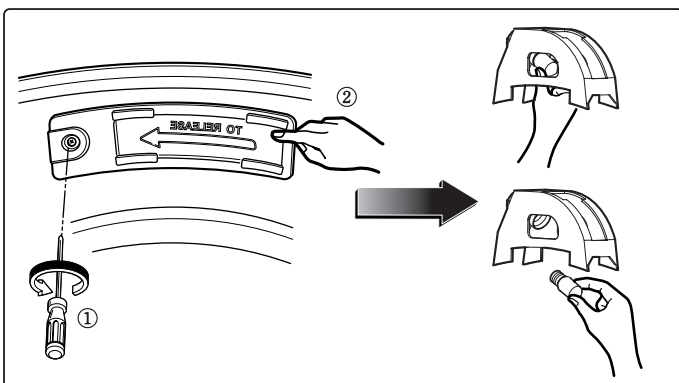
1. Disassemble the top plate.
2. Remove Cover Cabinet.
3. Disconnect the door lamp and electrode sensor connector.
4. Remove 4 screws.
5. Disassemble the Tub Drum [Front].

DRUM ASSEMBLY



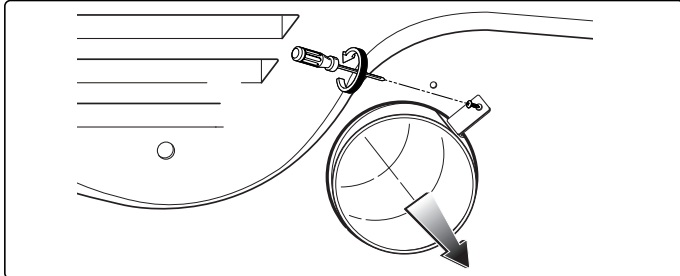
1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub drum [front].
3. Loosen belt from motor and idler pulleys.
4. Carefully remove the drum.

CHANGING THE DRUM LAMP

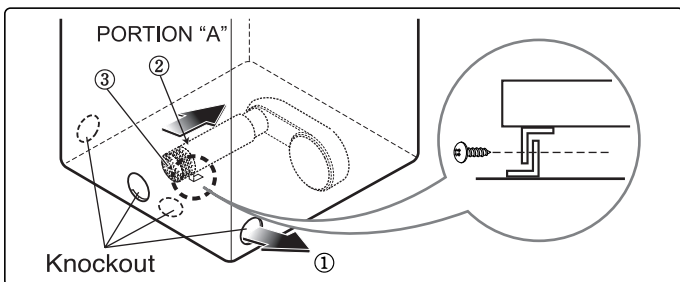


1. Disassemble the door.
2. Hold the lamp shield in place while removing the screw.
3. Slide the shield up and remove.
4. Remove the bulb and replace with a 15 watt, 120 volt candelabra-base bulb.
5. Replace the lamp shield and screw.

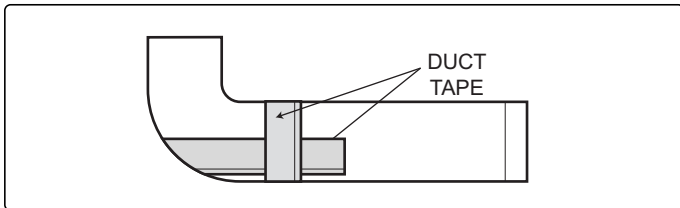
DRYER EXHAUST CHANGE



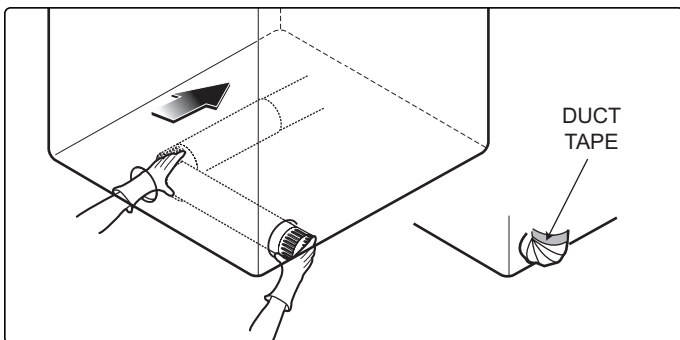
1. Remove a screw and the exhaust duct.



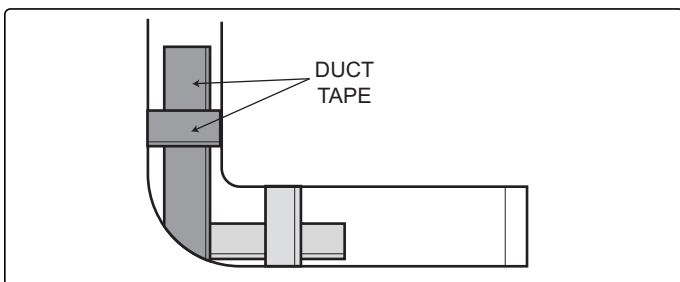
2-1. Detach and remove a knockout at the bottom, left or right side as desired. (Right Side Vent not available on Gas dryer)
 ✕ , ✕ , ✕ the order of work.



2-2. Reconnect the another duct [11 in (28cm)] to the blower housing, and attach the duct to the base. (Duct is a SVC part)

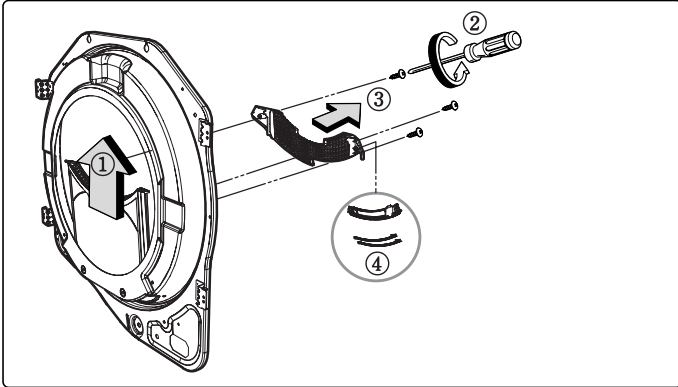


3-1. Pre-assemble 4" elbow with 4" duct. Wrap duct tape around joint.



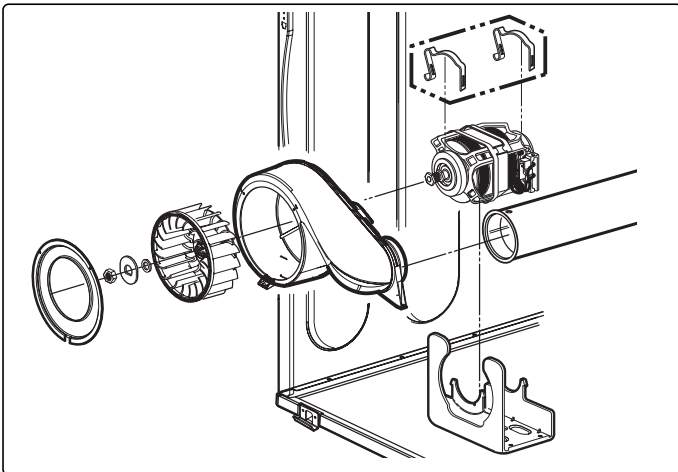
3-2. Insert the elbow duct assembly through the side opening and connect the elbow to the internal duct.

FILTER ASSEMBLY



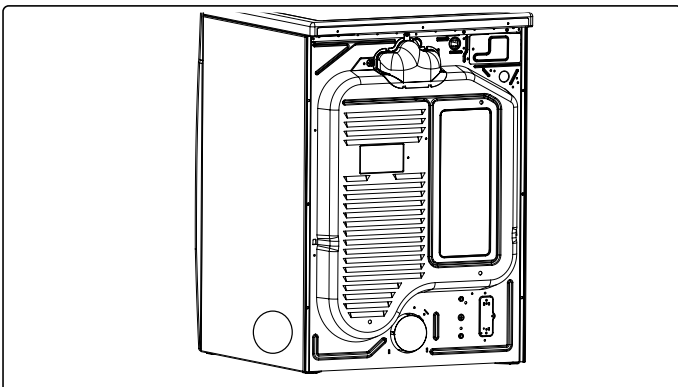
1. Remove the filter.
2. Remove 3 screws.
3. Remove the Cover Grid.
4. Disconnect the electrode sensor.

BLOWER HOUSING



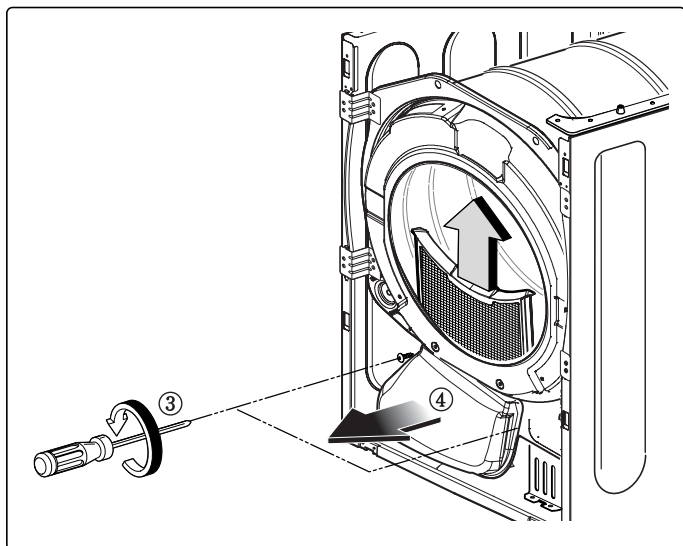
1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub Drum [Front].
3. Remove the Drum assembly.
4. Remove 2 screws and cover (Air guide).
5. Remove the bolt and washer.
6. Remove the fan.
7. Disconnect the motor clamp and motor.

BACK COVER



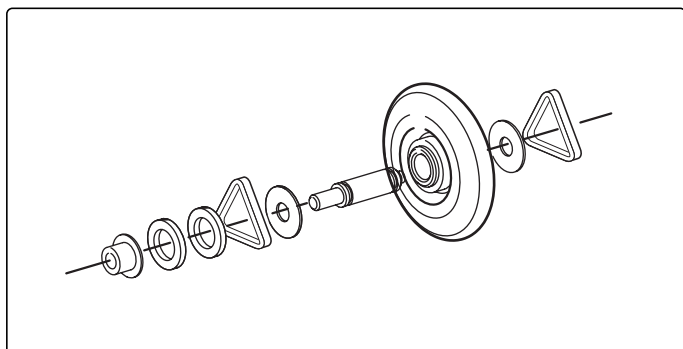
1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub Drum [Front].
3. Remove the Drum assembly.
4. Remove 7 screws.
5. Remove the Back Cover.

AIR DUCT



1. Disassemble the top plate.
2. Remove the Cover Cabinet.
3. Remove the filter and 2 screws.
4. Remove the air duct.

ROLLERS

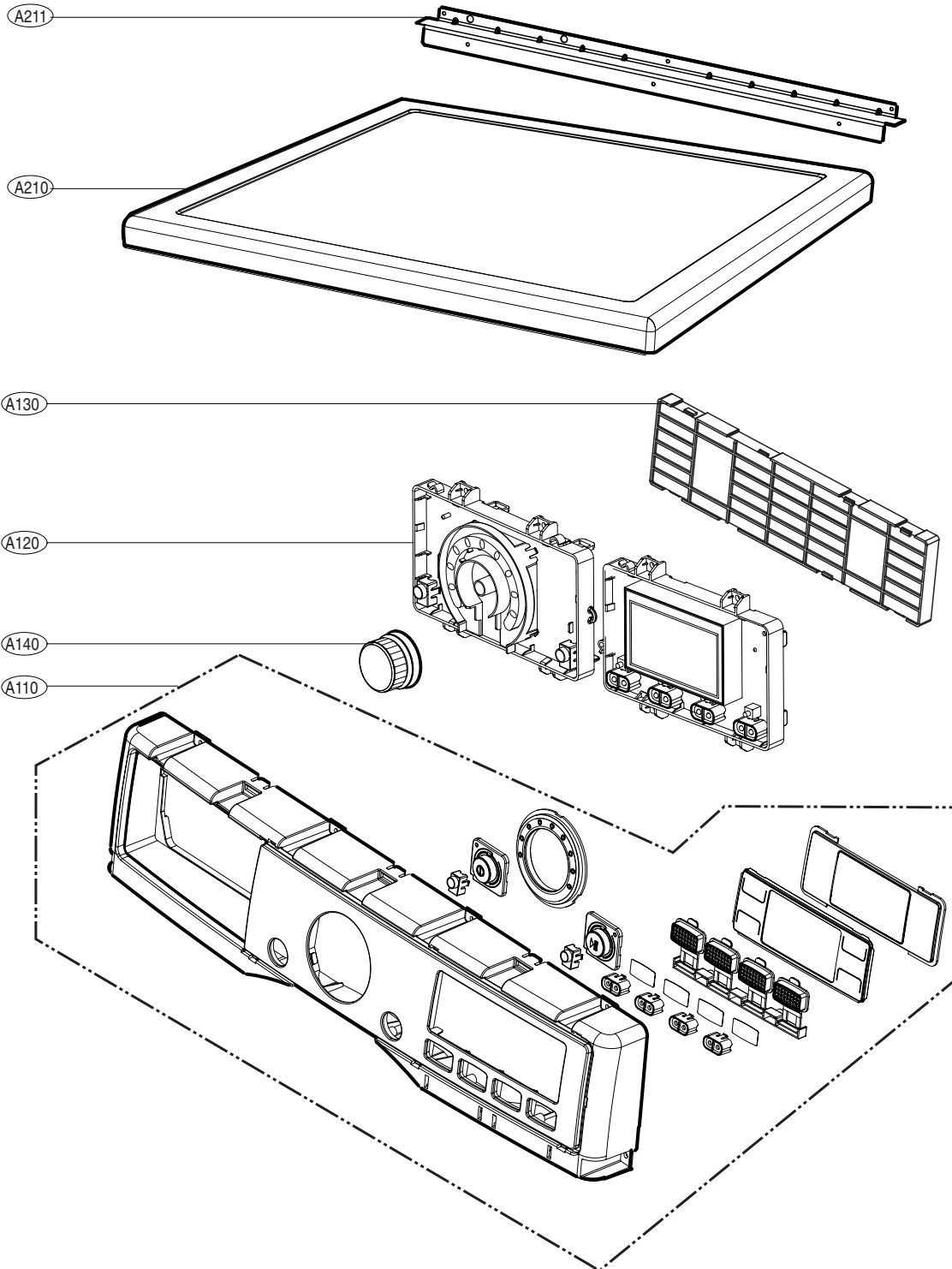


1. Disassemble the top plate.
2. Remove the Cover Cabinet and Tub Drum [Front].
3. Remove the Drum assembly and Tub Drum [Rear].
4. Disconnect the Air duct from the Tub Drum [Front].
5. Remove the roller from the Tub Drum [Front] and Tub Drum [Rear].

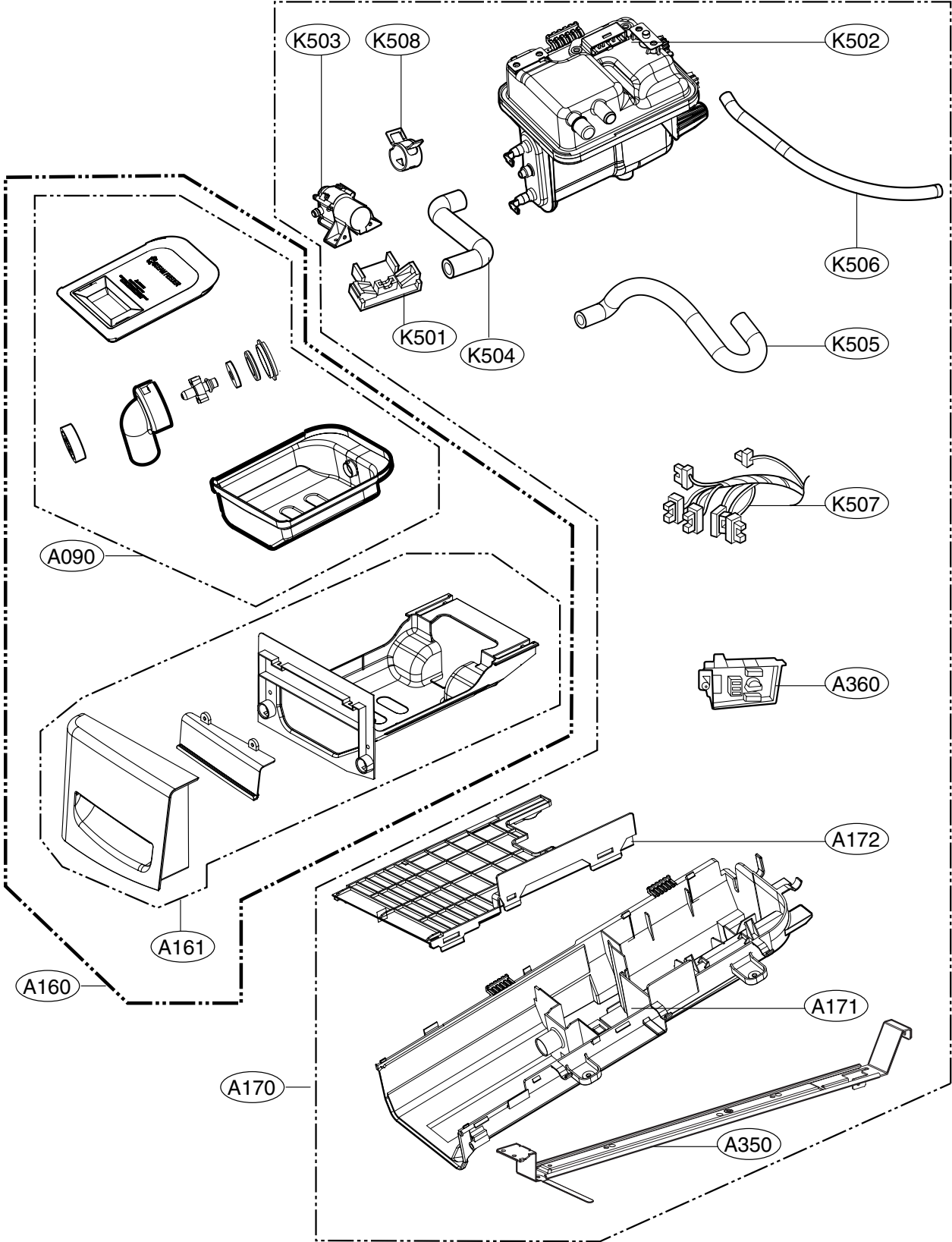
14

EXPLODED VIEW

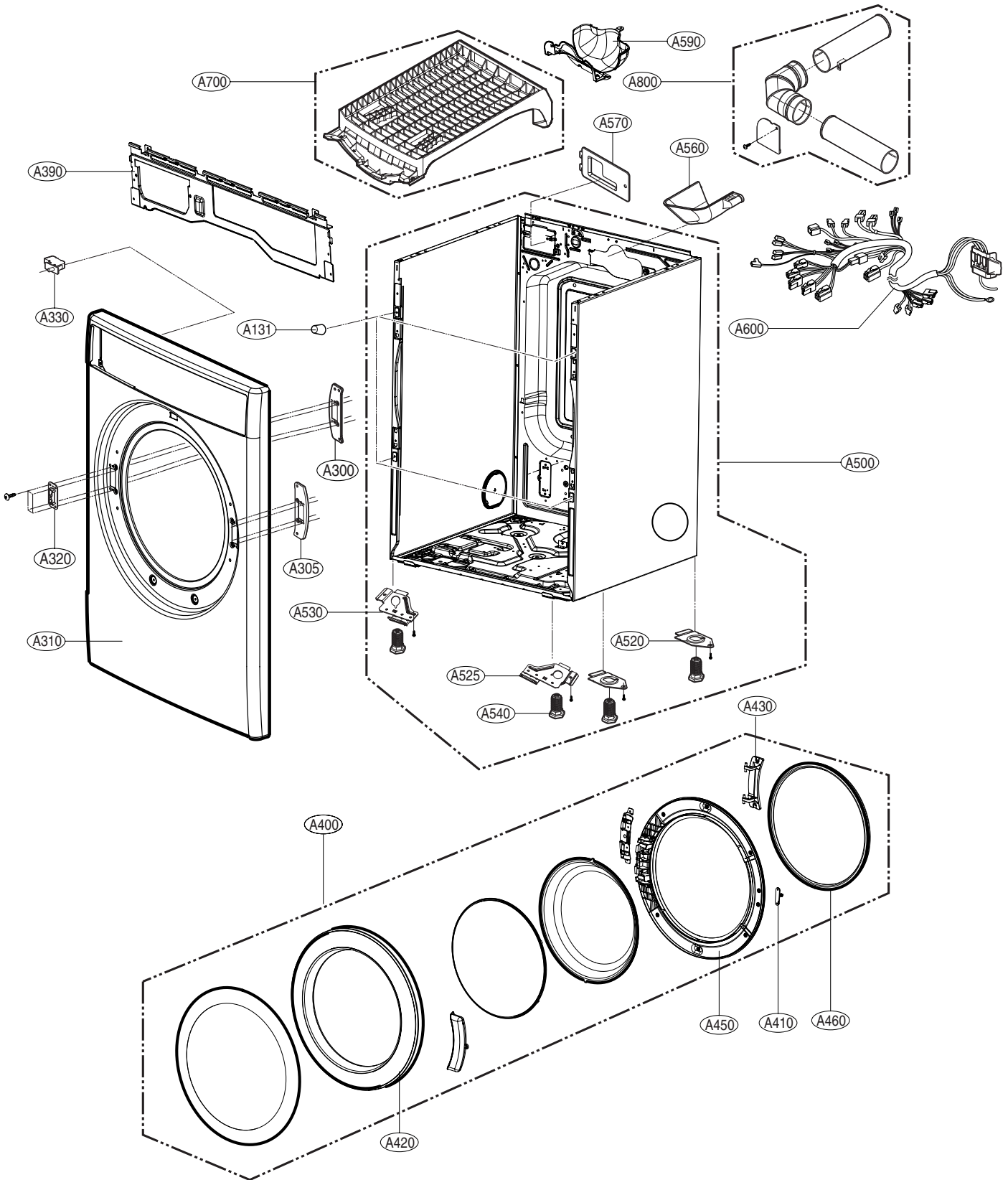
14-1. Control Panel & Plate Assembly



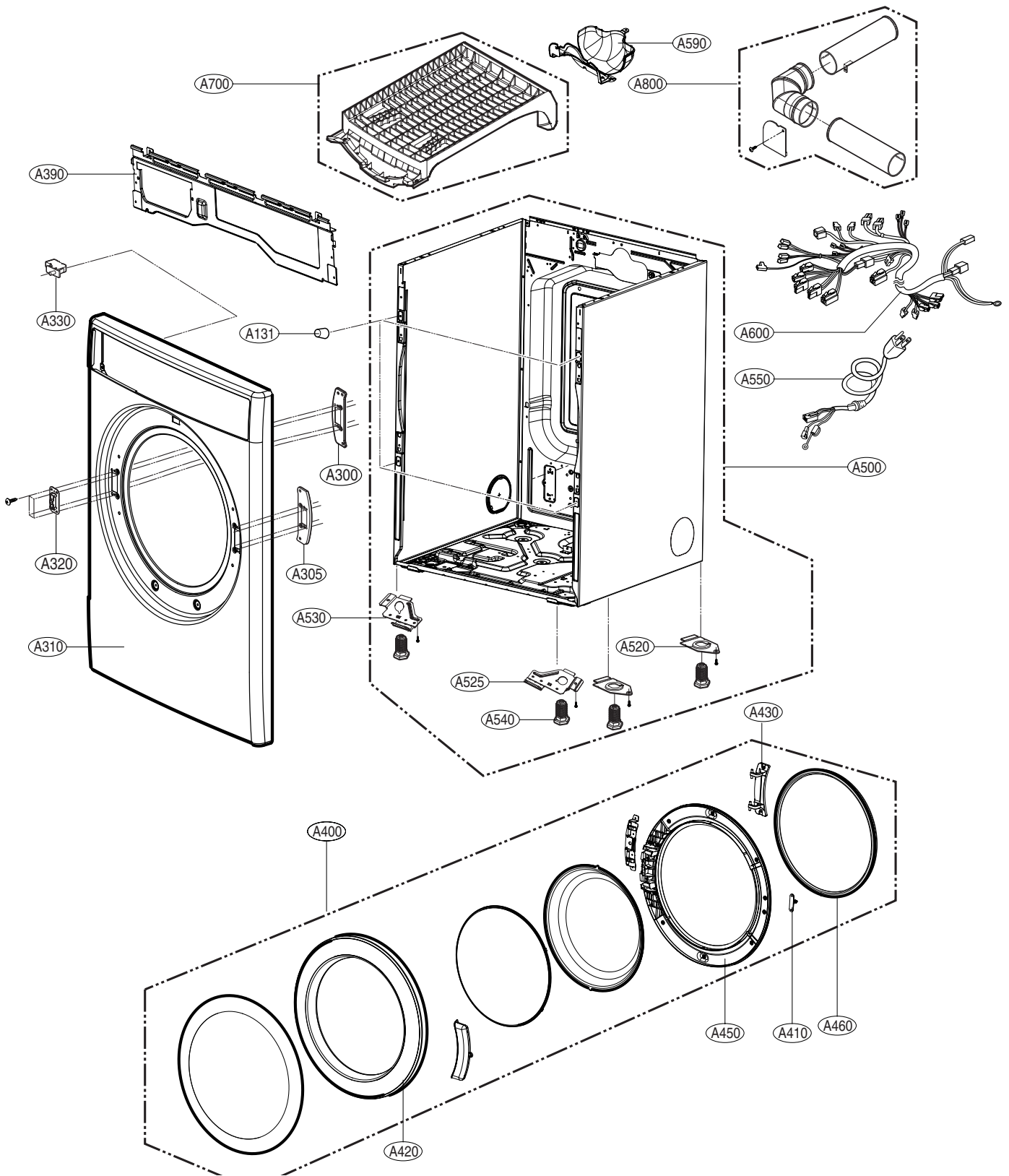
14-2. Panel Drawer Assembly & Guide Assembly



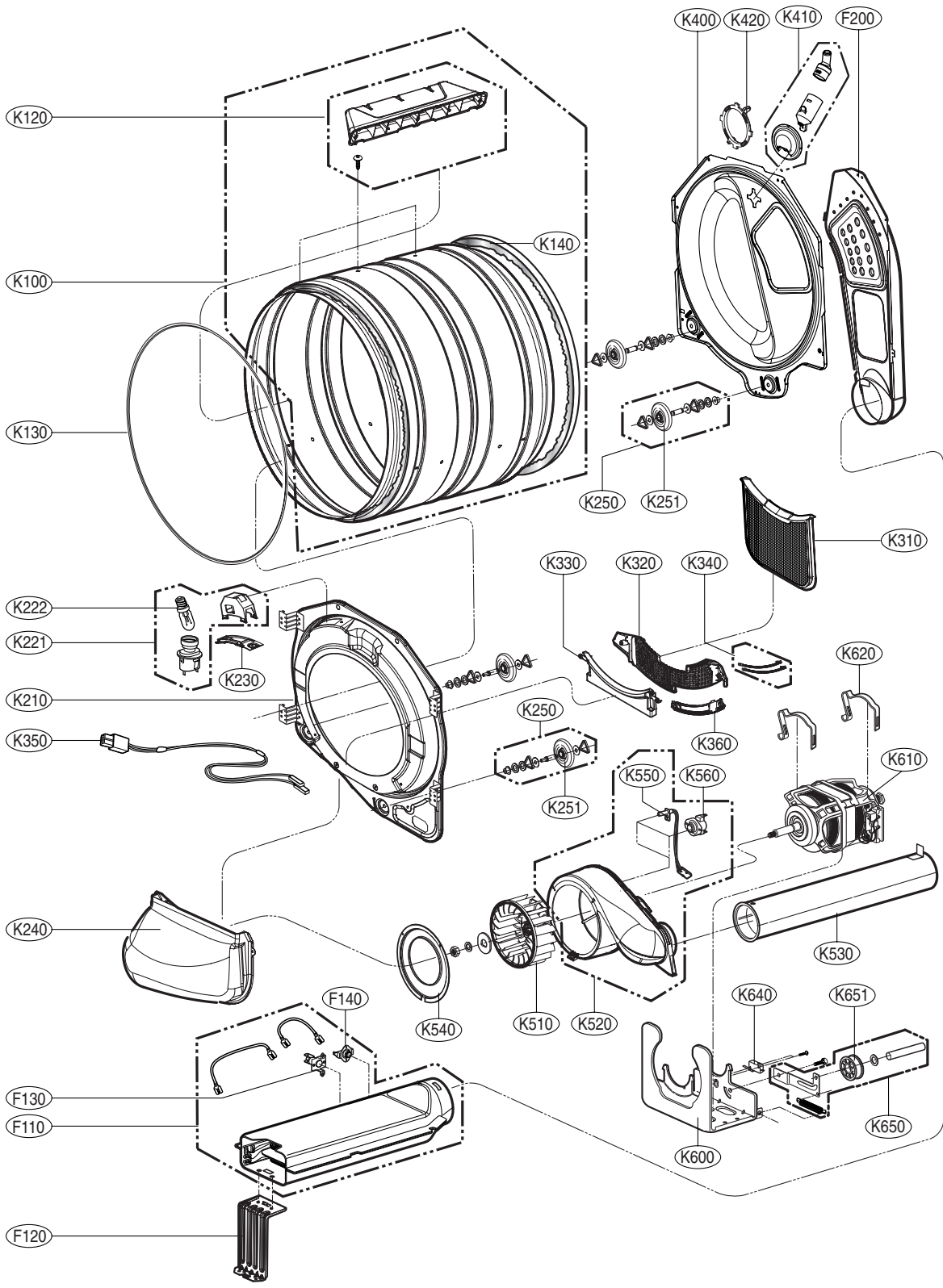
14-2-1. Cabinet & Door Assembly: Electric Type



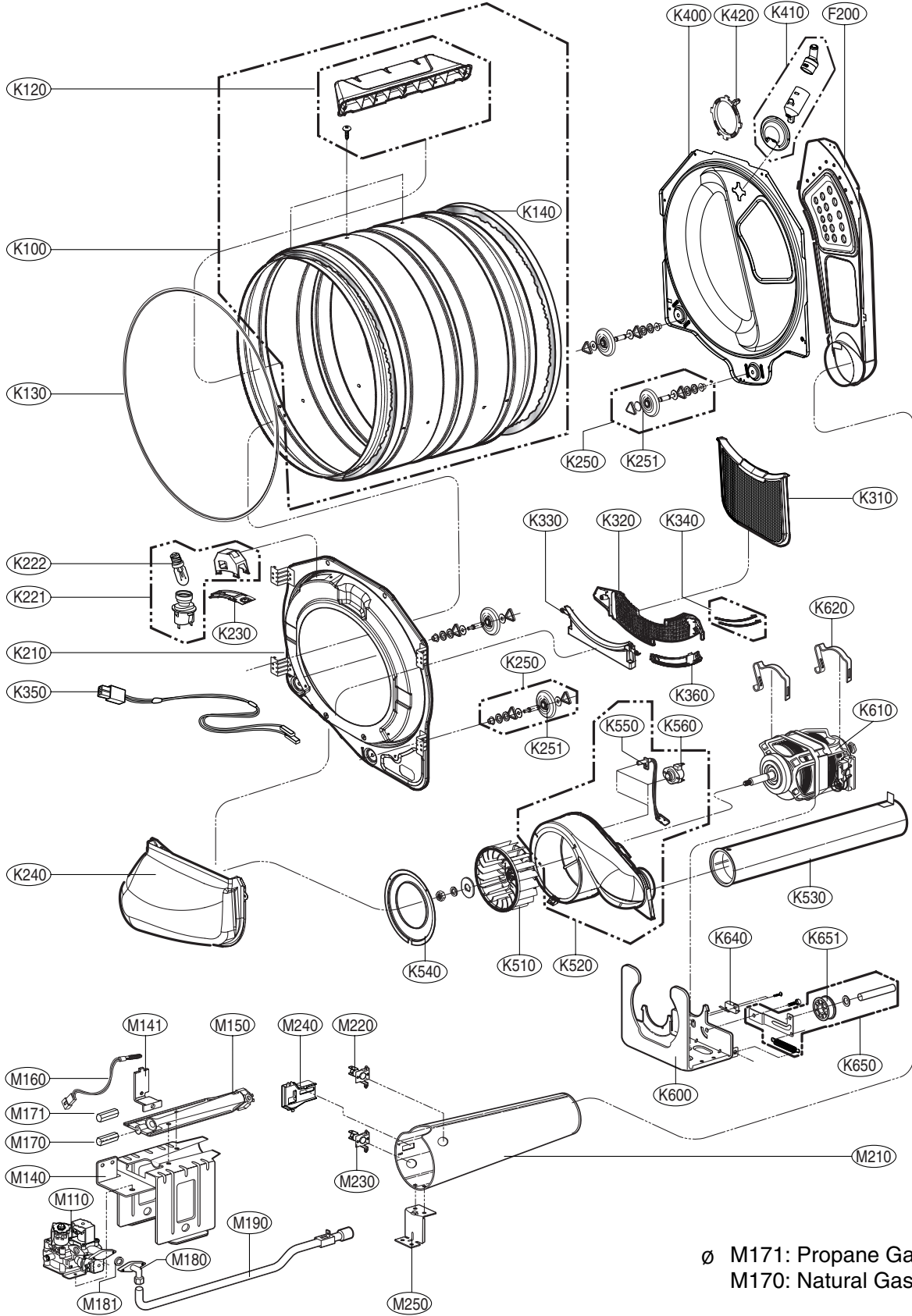
14-2-2. Cabinet & Door Assembly: Gas type



14-3-1. Drum & Motor Assembly: Electric Type



14-3-2. Drum & Motor Assembly: Gas type



∅ M171: Propane Gas orifice
 M170: Natural Gas orifice