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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
	DLEX9000*	DLGX9001*
	DLEX9500*	DLGX9501*

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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. To reduce the risk of personal injury, adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses. Failure to follow all of the safety warnings in this manual could result in property damage, personal injury or death. Be careful when opening and closing the door. Fingers and hands can get caught in the door and cause injury if the door drops forward unexpectedly. Do not place heavy items on or lean against the top of the door when it is open. Do not attempt to pull the hamper door open more than 40 degrees. The Dryer could tip forward, causing injury or damage.

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.

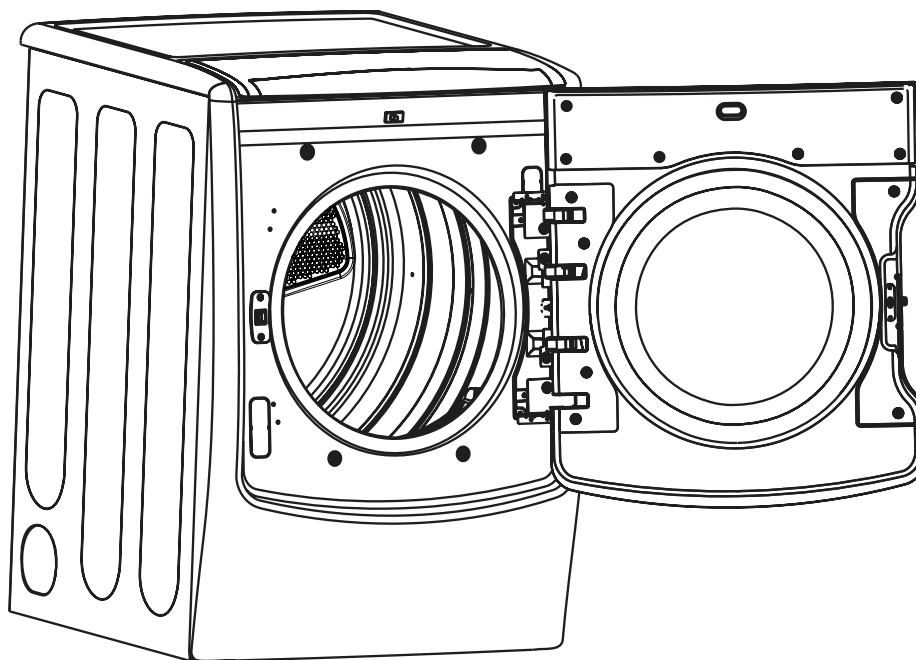
- OR -

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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- Name: Electric and Gas Dryer
- Power supply: Refer to the rating label on the dryer.
Gas: 120 VAC Electric: 240VAC
- Size: 29 X 33 3/8" X 40 7/8" (inch)
- Dryer capacity: IEC 9.0 cu.ft.
- Weight: Gas dryer : 160.7 lbs(72.9 kg)
Electric dryer : 157.4 lbs(71.4 kg)

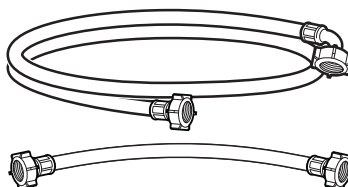
Specifications are subject to change by manufacturer.

■ ACCESSORIES

Included accessories

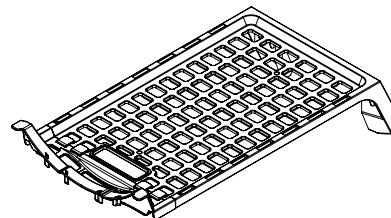


Y connector



Hose

Optional accessory



Dryer rack (1 each)

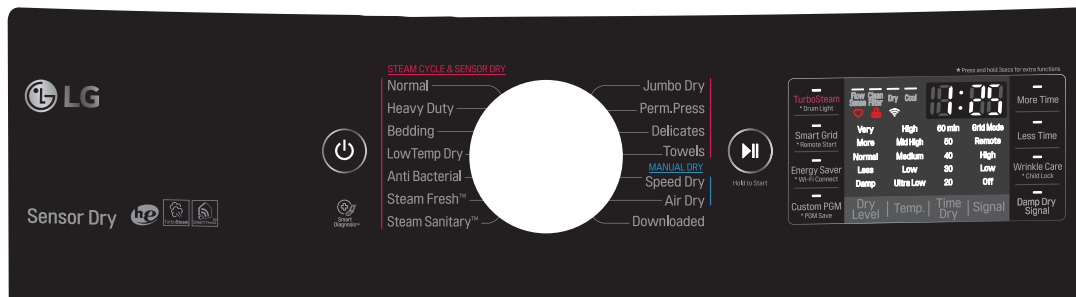
See page 6 of this manual for usage instruction.

ITEM		DLEX9000* DLGX9001* DLEX9500* DLGX9501*		REMARK
Material & Finish	Color	Blue White / Stainless Silver / Black Stainless		
	Top Plate	VCM		
	Door Trim	Chrome		
Power Supply		Elec.	120 V / 240 V / 60 Hz (26 A)	
			120 V / 208 V / 60 Hz (23 A)	
		Gas	120 V / 60 Hz (13 A)	
Power Consumption	Motor	250W (4.5A)		AC 120V
	Heater	5400W (22.5A)		AC 240V(Electric Model)
	Lamp	15 W (0.2A)		DC 12V
	Gas Valve	13 W (0.11A) x 2		DC 120V(Gas Model)
	AG Heater	1100W (9.2A)		DC 120V(Steam Model)
Control Type		Electronic		
Drum Capacity		9.0 cu.ft.		
Weight (lbs) - Net		160.7 / 157.4		
No. of Programs		14		
No. of Dry Options		10		
No. of Temperature Controls		5		
No. of Dry Levels		5		
Sound levels		3		
Sensor	Moisture	Available		Electrode sensor
	Temperature	Available		Thermistor
Reversible Door		Available		
Drum		Stainless Steel		
Dryer Rack		Available		
Child Lock		Available		
Interior Light		Available		
Product (WxDxH)		29 X 33 3/8" X 40 7/8" (inch)		
Packing (WxDxH)		31 5/16" X 35 5/8" X 44 15/16"		

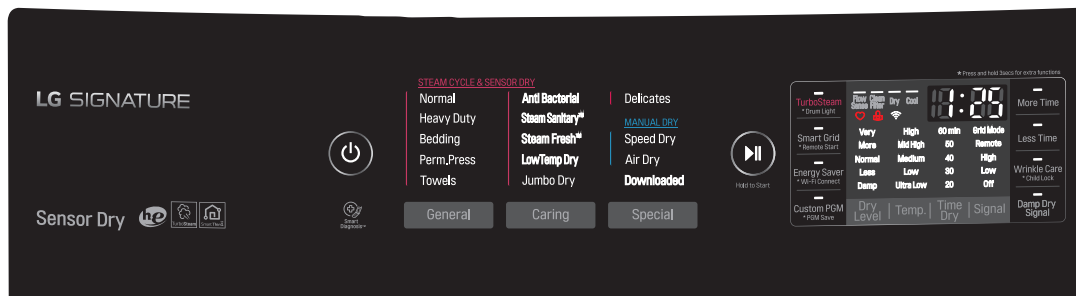
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FEATURES AND BENEFITS

TT(D) Dial



TT(D) Full touch



3

INSTALLATION INSTRUCTIONS

Dryer Rack Installation Instructions

1

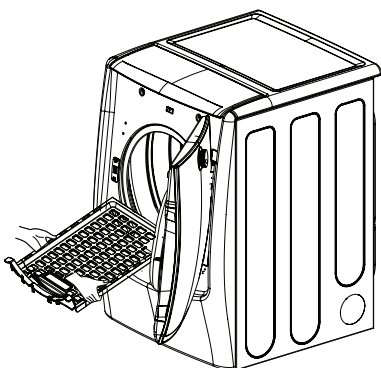
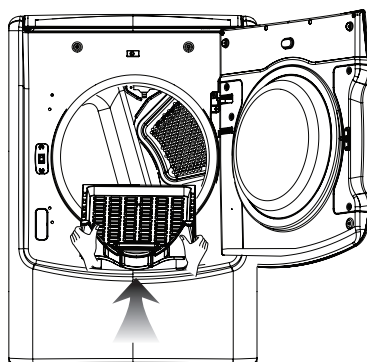
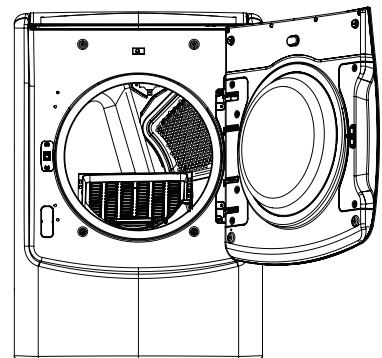
Open the door.
Hold the dryer rack
with both hands.

2

Put the dryer rack into
the drum

3

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



3-1. Connecting Electric Dryers

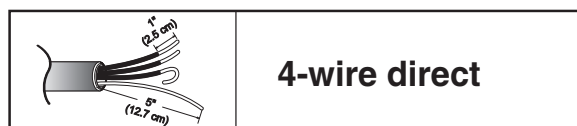
Review the following options to determine the appropriate electrical connection for your home.



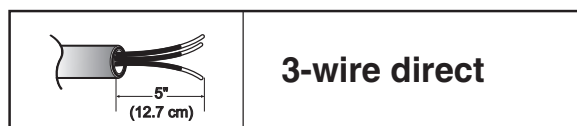
Use the instructions under option 1 if your home has a 4-wire receptacle (NEMA type 14-30R).



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.



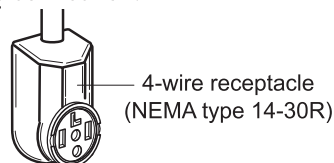
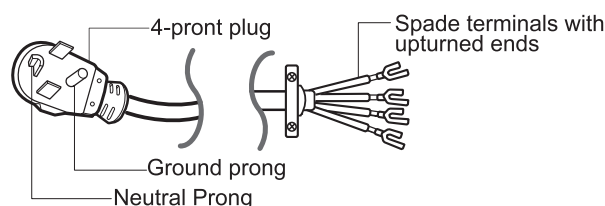
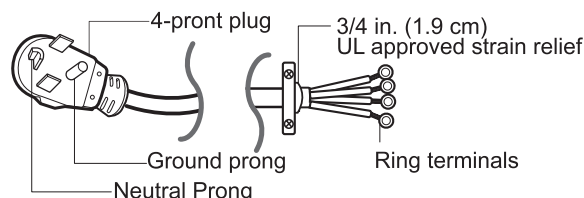
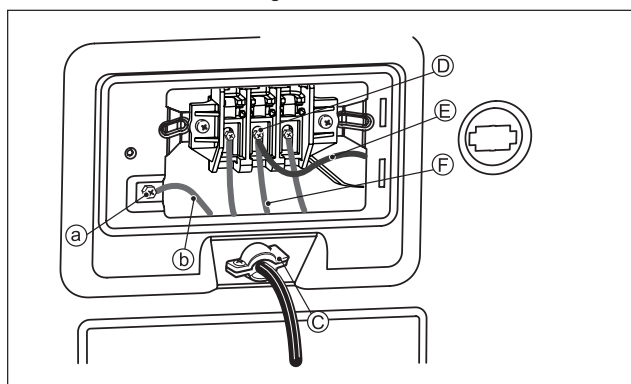
If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box.



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

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

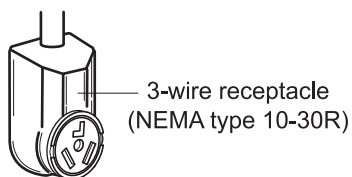
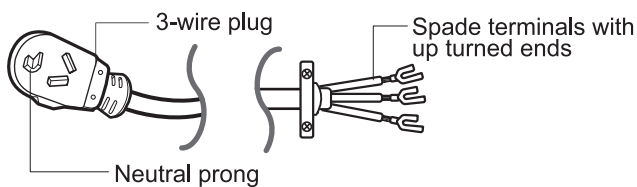
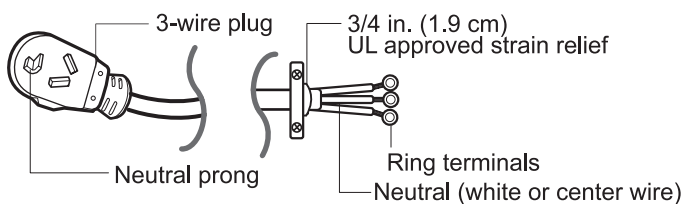
- If your local codes or ordinances do not allow the use of a 3 wire connection, or you are installing your dryer in a mobile home, you must use a 4-wire connection.



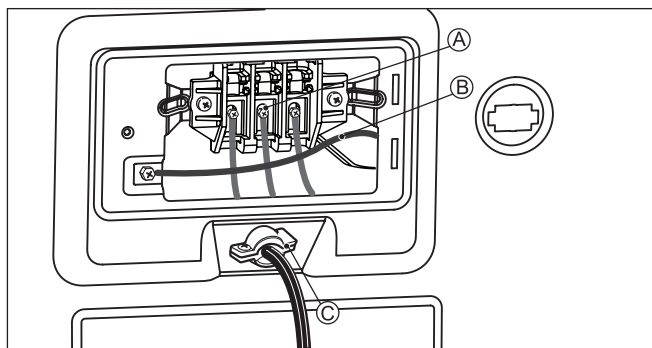
1. Connect the neutral wire (white) of the power cord to the center terminal block screw.
2. Connect the red and black wires to the left and right terminal block screws.
3. Connect the ground wire (green) of the power cord to the external ground screw. Remove the neutral ground wire of appliance and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



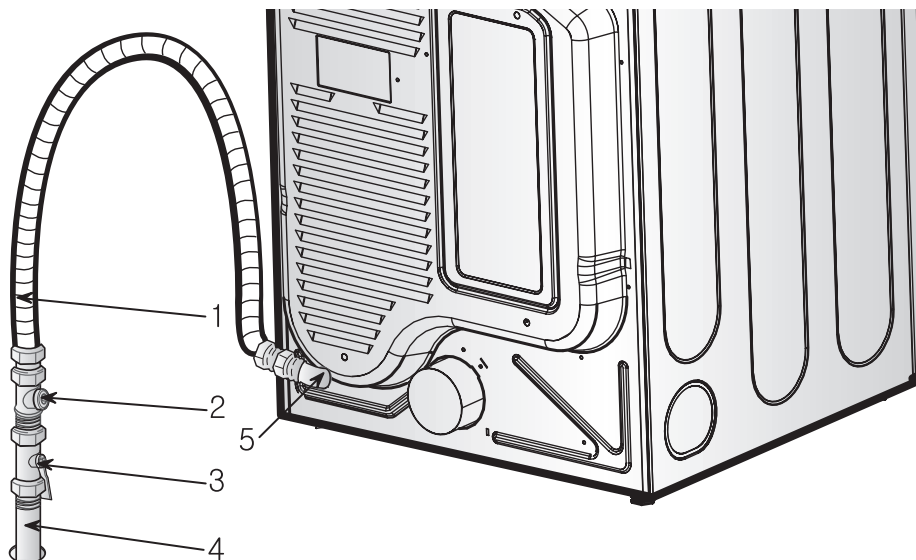
1. Connect the neutral (white or center) wire (B) to the center, silver colored, screw (A) and tighten securely.
2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
3. Tighten the strain relief screws (C) securely.



3-2 Connecting the gas supply

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 $\frac{3}{8}$ " 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 LP (Liquefied Petroleum) gas connection, refer to section on Gas Requirements.



- | | |
|--|--|
| 1 New Stainless Steel Flexible Connector
– Use only if allowed by local codes (Use Design A.G.A. Certified Connector) | 4 Black Iron Pipe
Shorter than 20' (6.1 m) – Use $\frac{3}{8}$ " pipe
Longer than 20' (6.1 m) – Use $\frac{1}{2}$ " pipe |
| 2 $\frac{1}{8}$ " N.P.T. Pipe Plug (for checking inlet gas pressure) | 5 $\frac{3}{8}$ " N.P.T. Gas Connection |
| 3 Equipment Shut-Off Valve – Installed within 6' (1.8 m) of dryer | |

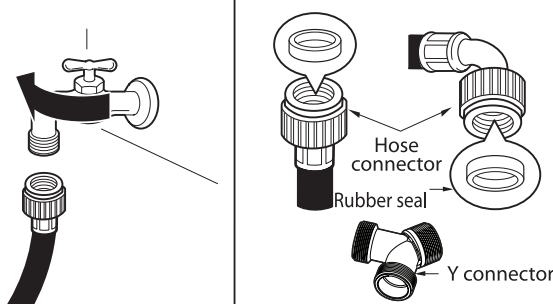
Connect Inlet Hose

The dryer must be connected to the cold water tap using the new water supply hose. Do not use old hoses

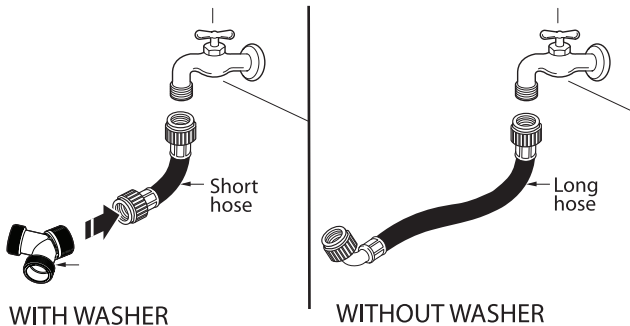
NOTE

- Water supply pressure must be between 21.8 PSI and 116 PSI (150~800 kPa).
- Do not strip or cross-thread when connecting inlet hose to the valve.
- If the water supply pressure is more than 800 kPa, a decompression device should be installed.
- Periodically check the condition of the hose and replace the hose if necessary.
- Replace inlet hoses after 5 years of use to reduce the risk of hose failure.
- Record hose installation or replacement dates on the hoses for future reference.

1. Check rubber seal in the inlet hose. Two rubber seals are supplied with each inlet hose. They are used for preventing water leaks. Make sure the connection to the cold water tap is tight.



2. Check the installation type.



Connect all water supply hoses tightly by hand and then tighten another 2/3 turn with pliers.

WITH WASHER: When connecting the dryer to the same faucet as a washer.

- a. Shut off the cold water tap and remove the washer hose.
- b. Connect the short hose to the Y-connector using one of the hose washers.
- c. Connect the other end of the short hose to the cold water faucet.
- d. Connect the long dryer hose to one side of the Y-connector and connect the washer hose to the other side.

WITHOUT WASHER: If the dryer does not share the cold water tap with a washer.

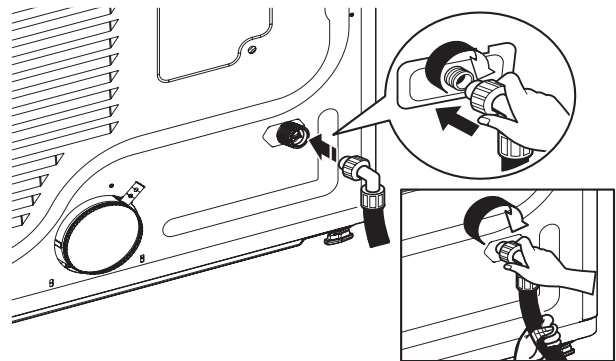
- a. Connect the straight end of the long hose to the cold water faucet.

NOTE

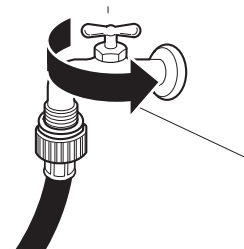
- Before connecting the water line to the dryer, flush several gallons of water into a drain or bucket. This will help prevent foreign particles such as sand and scale from clogging the dryer inlet valve.
- Do not overtighten. Damage to the coupling can result.

3. Connect hose to dryer.

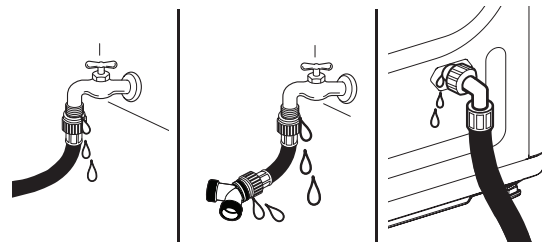
- Connect the water supply hose to the dryer inlet valve tightly by hand and then tighten another 2/3 turn with pliers. Make sure that there are no kinks in the hoses and that they are not crushed.



4. Turn on cold water faucet.



5. Check for leaks at the Y-connector (if used) and all hoses.



NOTE

- If any leaks are found, shut off the water faucet, remove the hose, and check the condition of the hose washer.

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 *	Steam Fresh™	Mid High Adjustable	Off	10min	Saturation	66±4℃ 151±7°F	5min	47±5℃ 113±9°F	3Hr
		Adjustable							
	Steam Sanitary™	High	Off	31min	Saturation	68±4℃ 155±7°F	5min	47±5℃ 113±9°F	
	Antibacterial	High	Very Dry	70min	Saturation	68±4℃ 155±7°F	5min	47±5℃ 113±9°F	
	Bedding	Medium	NORMAL Adjustable	55min	Saturation	60±4℃ 140±7°F	5min	47±5℃ 113±9°F	
	Heavy Duty	High	NORMAL Adjustable	54min	Saturation	68±4℃ 155±7°F	5min	47±5℃ 113±9°F	
	Perm.Press	Low	NORMAL Adjustable	32min	Saturation	52±3℃ 126±5°F	5min	47±5℃ 113±9°F	
	Normal	Medium	NORMAL Adjustable	41min	Saturation	60±4℃ 140±7°F	5min	47±5℃ 113±9°F	
	Delicates	Low	NORMAL Adjustable	28min	Saturation	52±3℃ 126±5°F	5min	47±5℃ 113±9°F	
	Towels	Mid High	NORMAL Adjustable	55min	Saturation	66±4℃ 151±7°F	5min	47±5℃ 113±9°F	
	Jumbo Dry	Medium	NORMAL Adjustable	85min	Saturation	60±2℃	5min	45℃	
	LowTemp Dry	High	NORMAL Adjustable	50min	Saturation	60±4℃ 60±4℃	5min	45±5℃	
Manual Dry **	Speed Dry	High Adjustable	Off	25min	Saturation	(68±4℃) (155±7°F)	5min	47±5℃ 113±9°F	3Hr
	Air Dry	Off		Off					
Load			Motor						Off Time: 6min
			Heater		Temperature Control for each cycle 				On Time: 10sec

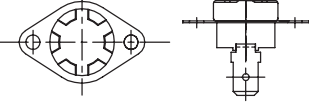
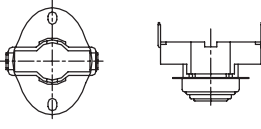
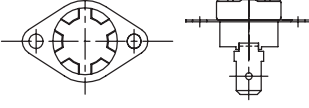
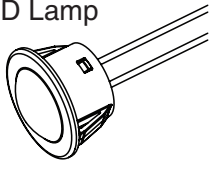
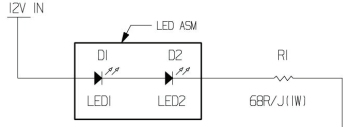
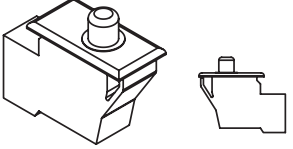
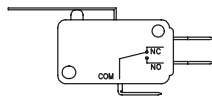
* Sensor dry: Dry Level is set by users.

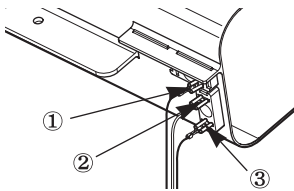
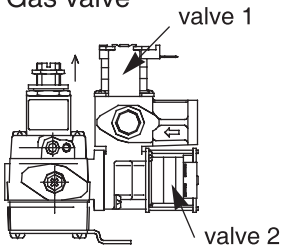
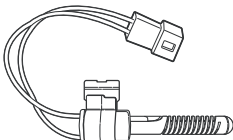
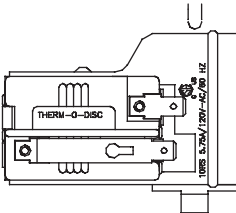
** Manual dry: Temperature control is set by users.

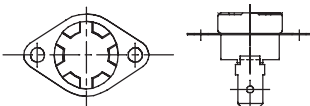
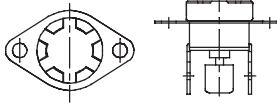
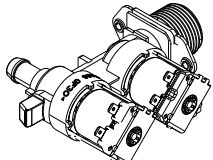
Default settings can be adjusted by users.

⚠ 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  • Check Top Marking: N140	Measure resistance of terminal to terminal ① Open at $284 \pm 9^{\circ}\text{F}$ ($140 \pm 5^{\circ}\text{C}$) ② Auto reset -31°F (-35°C) Same shape as outlet thermostat.	If thermal fuse is open must be replace ① Resistance value $\approx \infty$ ② Continuity ($250^{\circ}\text{F} \downarrow$) $< 1\Omega$	• Heater case-Safety • Electric type
2. Hi limit Thermostat (Auto reset) 	Measure resistance of terminal to terminal ① Open at $257 \pm 9^{\circ}\text{F}$ ($125 \pm 5^{\circ}\text{C}$) ② Close at $201 \pm 9^{\circ}\text{F}$ ($94 \pm 7^{\circ}\text{C}$)	① Resistance value $\approx \infty$ ② Resistance value $< 5\Omega$	• Heater case - Hi limit • Electric type
3. Outlet Thermostat (Cut off)  • Check Top Marking: N85	Measure resistance of terminal to terminal ① Open at $185 \pm 9^{\circ}\text{F}$ ($85 \pm 5^{\circ}\text{C}$) Same shape as thermal cut off.	① Resistance value $\approx \infty$ ② Resistance value $< 5\Omega$	• Blower housing - Safety
4. LED Lamp 	Schematic: 	If the lamp is turned on by connecting is normal.	It is not measured by multimeter because V_{th} is 3.2V
5. Door switch 	Measure resistance of the following terminal 1) Door open ① Terminal: COM - NC (1-3) ② Terminal: COM - NO (1-2) 2) Door closed ① Terminal: COM - NC (1-3) ② Terminal: COM - NO (1-2)	① Resistance value $< 1\Omega$ ② Resistance value $\approx \infty$ ① Resistance value $\approx \infty$ ② Resistance value $< 1\Omega$	
6. Idler switch 	Measure resistance of the following terminal: COM - NC	1. Lever open ① Resistance value $< 1\Omega$ 2. Lever push (close) ② Resistance value $\approx \infty$	

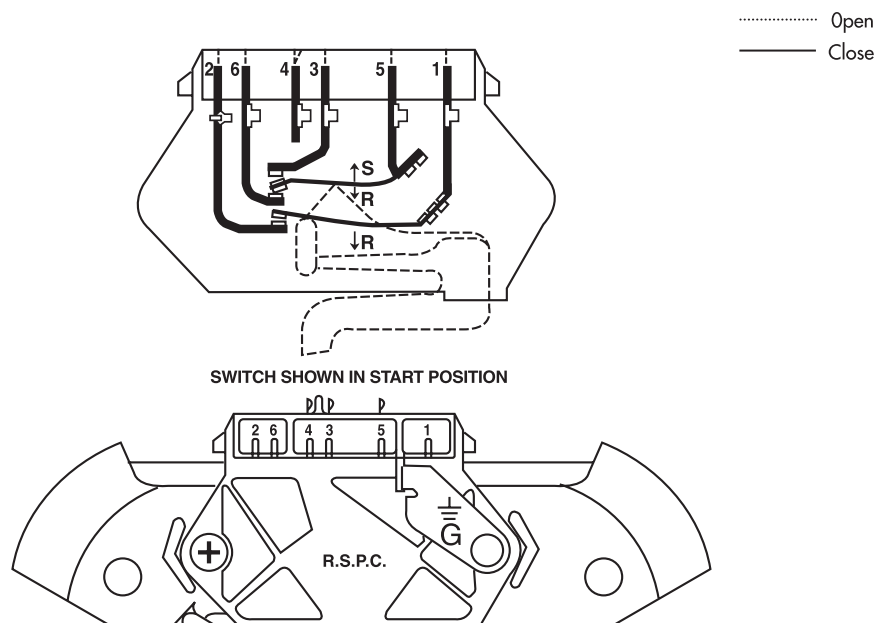
Component	Test Procedure	Check result	Remark
7. Heater 	Measure resistance of the following terminal ① Terminal: 1 (COM) - 2 ② Terminal: 1 (COM) - 3 ③ Terminal: 2 - 3	① Resistance value: 10Ω ② Resistance value: 10Ω ③ Resistance value: 20Ω	<ul style="list-style-type: none"> Electric type
8. Thermistor 	Measure resistance of terminal to terminal Temperature condition: $58^{\circ}\text{F} \sim 104^{\circ}\text{F}$ ($10\sim 40^{\circ}\text{C}$)	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 15
10. Gas valve 	Measure resistance of the following terminal ① Valve 1 terminal ② Valve 2 terminal	① Resistance value $1.5\text{k}\sim 2.5\text{k}\Omega$ ② Resistance value $1.5\text{k}\sim 2.5\text{k}\Omega$	<ul style="list-style-type: none"> Gas type
11. Igniter 5318EL3001 	Measure resistance from terminal to terminal.	Resistance value $50\sim 800\Omega$ (for 5318EL3001)	<ul style="list-style-type: none"> Gas type
12. Flame Detect 	Measure resistance of terminal to terminal ① Open at 370°F (Maximum) ② Close at 320°F	① Resistance value $\approx \infty$ ② Resistance value $< 1\Omega$	<ul style="list-style-type: none"> Gas type

Component	Test Procedure	Check result	Remark
13. Outlet Thermostat (Auto reset)  <ul style="list-style-type: none"> Check Top Marking: N95 	Measure resistance of terminal to terminal ① Open at $203 \pm 41^{\circ}\text{F}$ ($95 \pm 5^{\circ}\text{C}$) ② Close at $159 \pm 41^{\circ}\text{F}$ ($70 \pm 5^{\circ}\text{C}$)	① Resistance value $\neq \infty$ ② Continuity $< 1\Omega$	<ul style="list-style-type: none"> Gas type Gas funnel
14. Outlet Thermostat (Manual reset)  <ul style="list-style-type: none"> Check Top Marking: N100 	Measure resistance of terminal to terminal ① Open at $230 \pm 41^{\circ}\text{F}$ ($110 \pm 5^{\circ}\text{C}$) ② Manual reset	① Resistance value $\neq \infty$ ② Continuity $< 1\Omega$	<ul style="list-style-type: none"> Gas type Gas funnel
15. Inlet. valve 	Measure resistance of the Following terminal <ul style="list-style-type: none"> Left picture -.plate 	DC 12V Limit current: 550mA Coil resist: $24\Omega \pm 10\%$	Electric type

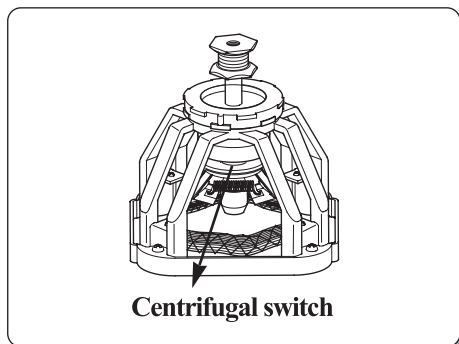
NOTE When checking Component, be sure to turn Power off, then do voltage discharge sufficiently.

■ Contact On / Off by Centrifugal Switch

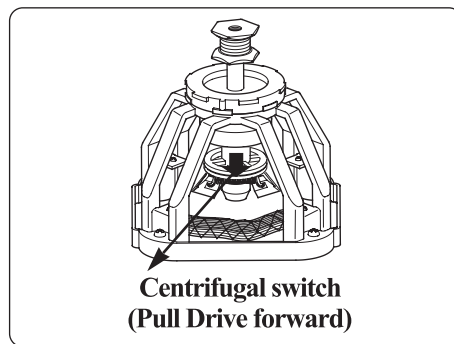
Terminal No		①	②	③	④	⑤	⑥	Remark
Mode	Resistance							
Motor STOP	2 ~ 3Ω				●————●			Motor
	≡ ∞	●·····●						Heater (Electric Models)
	≡ ∞			●·····●				Gas Valve (Gas Models)
Motor RUN	3 ~ 5Ω				●————●			Motor
	< 1Ω	●————●						Heater (Electric Models)
	< 1Ω			●————●				Gas Valve (Gas Models)



■ STOP MODE
(When motor does not operate)

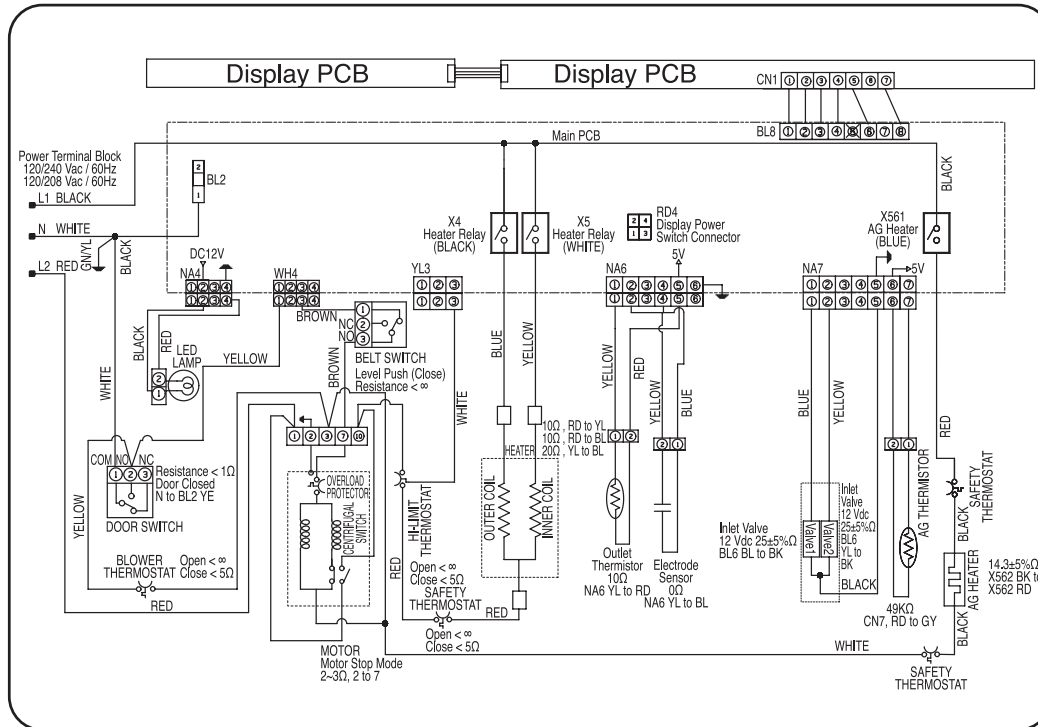


■ RUN MODE
(Motor operates)

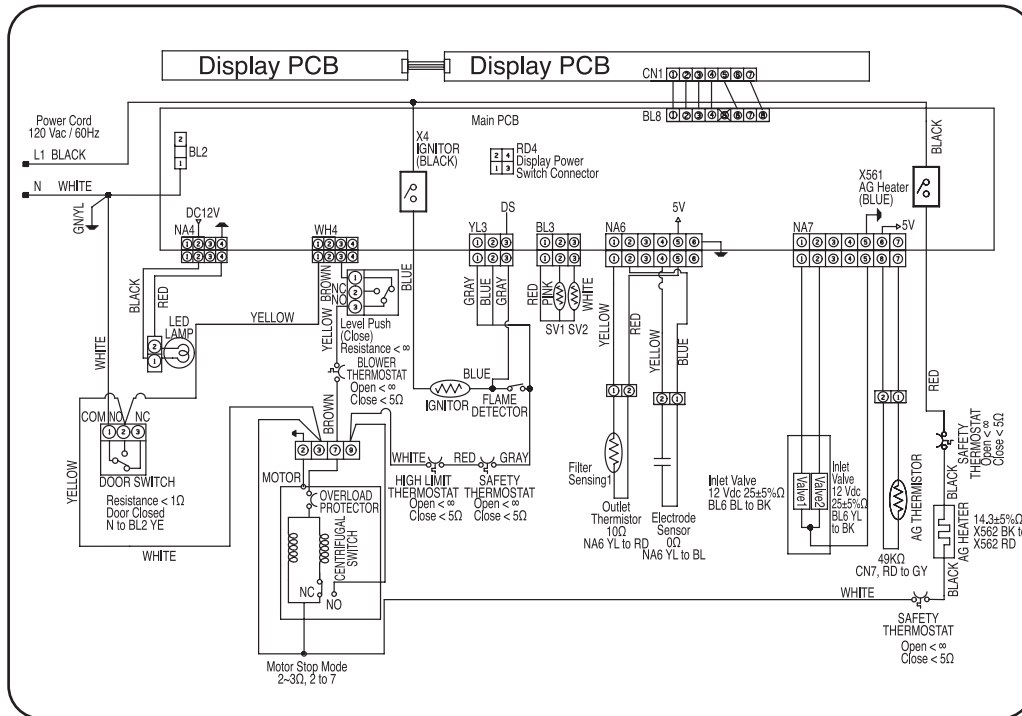
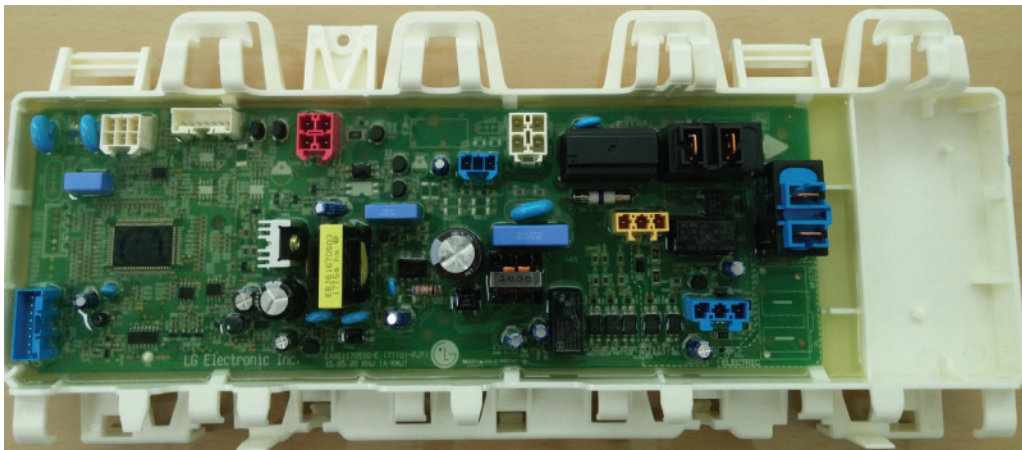


CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

ELECTRIC DRYER WIRING DIAGRAM

GAS DRYER WIRING DIAGRAM



8-1. Steam Cycle Guide

	Steam	Default Time	Temp. Control	Dry Level	Fabric State	Fabric Type	Maximum Amount
Steam Sanitary™		31 minutes			Dry	Comforter Bedding	Single (1 each)
						Children's clothing	3 lbs.
Steam Fresh™		10 minutes	○		Dry	Comforter	Single (1 each)
						Shirts*	5 each
Steam Option	+ Turbo Steam	Follows Selected Cycle		○	Wet	Varies by selected cycle	8 lbs. (18 Items)

*Shirt: 70% cotton/30% poly blend, except especially delicate fabrics.

IMPORTANT NOTES ABOUT STEAM CYCLES:

- 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.
- Before moving the dryer, make sure the steam feeder is empty.
- Best results are obtained with cotton/poly blend fabrics.
- TurboSteam™ helps prevent the overdrying of clothes by injecting steam during the drying process. The Steam Shield Function extends the life of clothes.

8-2. Troubleshooting for Steam Dryer

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Water drips from orifice 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.
Steam doesn't generate but no error code is shown.	<ul style="list-style-type: none">• Water level error.	<ul style="list-style-type: none">• Unplug dryer and call for service.
Garments still wrinkled after STEAM FRESH™.	<ul style="list-style-type: none">• Too many or too different types of garments in dryer.	<ul style="list-style-type: none">• 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™.	<ul style="list-style-type: none">• The function of this cycle is to remove wrinkles from fabric.	<ul style="list-style-type: none">• Use an iron to make creases.
Water drips from door during Steam Cycle.	<ul style="list-style-type: none">• This is normal.	<ul style="list-style-type: none">• This is steam condensation on door surface.
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.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Cannot 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.
The display shows BULKY LOAD.	<ul style="list-style-type: none"> MORE TIME button pressed. 	<ul style="list-style-type: none"> 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™.	<ul style="list-style-type: none"> STEAM FRESH™ did not remove odor completely. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Outlet thermistor open or shorted. 	<ul style="list-style-type: none"> tE1 error is displayed in the drying cycle or test mode.
tE2	Thermistor of blower housing	<ul style="list-style-type: none"> Outlet thermistor open or shorted. 	<ul style="list-style-type: none"> tE2 error is displayed in the drying cycle or test mode.
tE4	Thermistor of steam generator	<ul style="list-style-type: none"> 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.
dE	Door SW	<ul style="list-style-type: none"> Door SW is abnormal. (only TEST MODE) 	<ul style="list-style-type: none"> dE error is only displayed in the test mode.
E5	Water supply pump	<ul style="list-style-type: none"> When the pump valve is less than 10 in the test mode 	<ul style="list-style-type: none"> tE5 error is only displayed in the test mode. Check the connection between harness wire and connector. Replace the water supply pump.
PS	Wire Connection (Black-White-Red)	<ul style="list-style-type: none"> Wire Connection is wrong. Wire Connection is loose. 	<ul style="list-style-type: none"> verify proper connection of the power cord. (Electric dryer only.) * PS means power supply.
EE	EE PROM Error	<ul style="list-style-type: none"> EE PROM operation is abnormal. 	<ul style="list-style-type: none"> EE error is displayed only in the test mode
nC	NFC module	<ul style="list-style-type: none"> NFC module open or shorted 	<ul style="list-style-type: none"> nC is displayed only in the test mode
nE	Modem	<ul style="list-style-type: none"> Modem is abnormal. 	<ul style="list-style-type: none"> nE is displayed only in the test mode
nF	Wi-Fi module	<ul style="list-style-type: none"> Wifi is abnormal. 	<ul style="list-style-type: none"> nF is displayed only in the test mode

9-1 Flow sensor

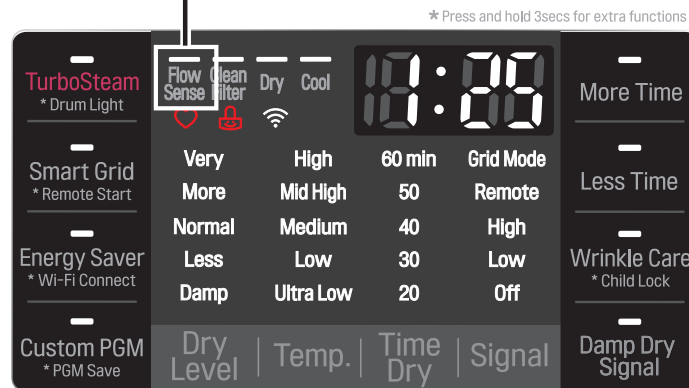
This FlowSense™ function detects the clogging or blocking of ducts.

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 a serviceman.

Flow Sensor Function



9-2 Installation Test (Duct Check)

Once you have completed the installation of the dryer, use this test to make sure the condition of the exhaust system is adequate for proper operation of the dryer. This test should be performed to alert you to any serious problems in the exhaust system of your home.

- Your dryer features FLOW SENSE™, an innovative sensing system that automatically detects blockages and restrictions in dryer ductwork. Keeping ductwork clean of lint buildup and free of restrictions allows clothes to dry faster and reduces energy use.

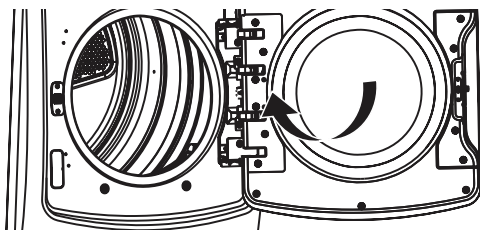
! NOTE

The dryer should be cool before starting this test. If the dryer was warmed up during installation, run the AIR DRY cycle for a few minutes to reduce the interior temperature.

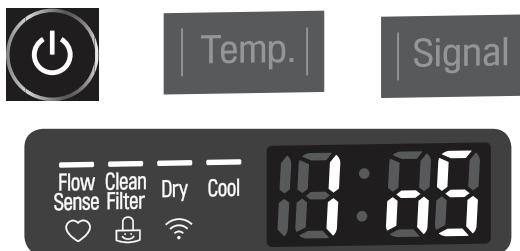
To activate the Installation test:

1. **Remove the drying literature, and then close the door.**

Do not load anything in the drum for this test, as it may affect the accuracy of the results.



2. **After you are pressed of Power button, you will Press and hold the Temp. and Signal buttons in 0.5 seconds.** This button sequence activates the installation test. The code **in5** will display if the activation is successful.



3. **Press the Hold to Start button.**

The dryer will start the test, which will last about two minutes. The heat will be turned on and the temperatures in the drum will be measured.



4. **Check the display for results.**

During the two minute test cycle, monitor the FLOW SENSE™ display on the control panel. If the Flow Sense indicator text lights up, the exhaust system is restricted. If the indicator text remains dark, the exhaust system is adequate. Other problems may also be shown with error codes. Refer to the next page for error code details and solutions.



DARK:
OK



LIGHTED:
RESTRICTED

Have the system checked immediately, as performance will be poor.

5. **End of cycle.**

At the end of the test cycle, **End** will display. The test cycle will end and the dryer will shut off automatically after a short delay.



9-3 Troubleshooting for flow sensor dryer

• Check the Error Code before you call for service

Error Code	Possible Causes	Solutions
tE1 or tE2	• Temperature sensor failure	• Turn off the dryer and call for service.
HS	• Humidity Sensor failure.	• Turn off the dryer and call for service.
PS or PF or nP	<ul style="list-style-type: none"> • Electric dryer power cord is not connected correctly, or house power supply is incorrect. • House fuse is blown, circuit breaker has tripped, or power outage has occurred. 	<ul style="list-style-type: none"> • Check the power supply or the connection of power cord to the terminal block. Refer to the Connecting electric dryers section of this manual for complete instructions. • Reset circuit breaker or replace fuse. Do not increase the fuse capacity. If the problem is a circuit overload, have it corrected by a qualified electrician.
The display shows "d90", "d95" 	<ul style="list-style-type: none"> • The duct work is about 90%-95% blocked. ("d90" or "d95" error code displayed 2 hours only) • House exhaust system blocked. 	<ul style="list-style-type: none"> • Do not use the dryer until the exhaust system has been cleaned and/or repaired. Using the dryer with a severely restricted exhaust is dangerous and could result in a fire or other property damage. • Check the outside dryer vent while the dryer is operating to make sure there is strong airflow. • If the exhaust system is extremely long, have it repaired or rerouted. • Keep the area around the dryer clean and free of clutter. • Check the vent hood for damage or lint clogging. • Make sure the area around the vent hood is clear.
FLOW SENSE™ indicator shows four bars during the drying cycle or the display shows "d80" after drying.	<ul style="list-style-type: none"> • Ductwork is too long or has too many turns/restrictions. • Significant blockage of the ductwork due to lint buildup or debris. • The appliance has detected a restriction in the external dryer venting. 	<ul style="list-style-type: none"> • Install a shorter or straighter duct run. See the Instructions. • Ductwork should be checked/cleaned soon. Dryer can be used in this condition, but drying times may be longer. • If exhaust restrictions are sensed by the FLOW SENSE™ system, the indicator will remain on for two hours after the end of the cycle. Opening the door or pressing the POWER button will turn off the display.

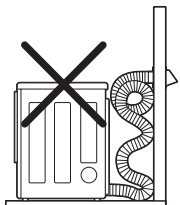
• Check the duct condition

If the FLOW SENSE™ LED is turned on, check the exhaust system for restrictions and damage. Repair or replace the exhaust system as needed.

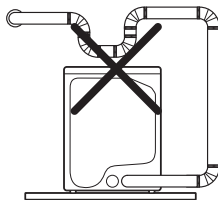
Restricted or Blocked Airflow



Avoid long runs or runs with multiple elbows or bends.

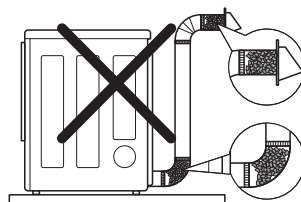


Excess or crushed transition duct



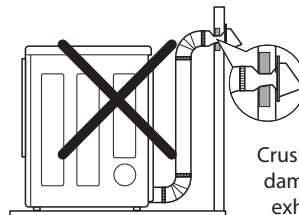
Too many elbows or exhaust too long

Check for blockages and lint buildup.



Lint buildup or blockage

Make sure the ductwork is not crushed or restricted.



Crushed or damaged exhaust

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

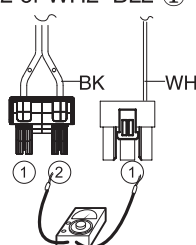
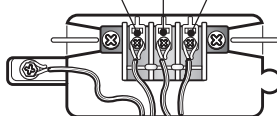
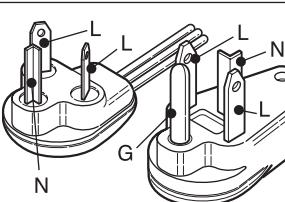
1. UNIT must be in standby (unit plugged in, display off)
2. Press Power and press More Time and Less Time simultaneously for one half second.
3. Press START/PAUSE button to advance through diagnostics.

Pressing the START/PAUSE	CHECKING ACTION	DISPLAY	CHECKPOINT
None	Electric control & Temperature sensor	L06(Elec Type) L07(Gas Type)	Standard
		U-	Main PGM
		d-	Display PGM
		tE	Thermistor open Thermistor 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	■ ELECTRIC TYPE Motor+Heater1(2700W) ■ GAS TYPE Motor	Current Temp. (5~70)	■ ELECTRIC TYPE Heater 1 is energized - 2700 W ■ GAS TYPE Valve not energized (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.)
4 times	■ ELECTRIC TYPE Mist Valve on, Motor+Heater1+Heater2 off ■ GAS TYPE Mist Valve on, Motor+Gas Valve off	Water Supply Valve	Mist Valve
5 times	Loads off	000	Water Level Sensor
6 times	Loads, Controller off		Power off

* To check pump operation:

At the fourth press of 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 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.	
<div><div></div><div><div>Check the outlet, is the voltage 110V ~ 125V AC?</div><div>NO</div><div>• Check the fuse or circuit breaker</div></div><div>YES</div></div>		
<div><div><div>BK2 or WH2 BL2-①</div></div><div><div>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?</div><div>NO</div><div>• Check if power cord is properly connected.</div></div><div>YES</div></div>		
<div><div><div>N (White)</div><div>L (Black) L (Red)</div></div><div><div>① Check if the controller wire is disconnected.</div><div>② Check if terminal block and power cord are connected (Check plug).</div><div>- Does power cord N (Natural) line match to terminal center N (Natural) line?</div><div>NO</div><div>• Reconnect the controller.</div></div><div>YES</div></div>		
<div><div></div><div>Replace controller.</div></div>		

Caution	When measuring power, be sure to wear insulated gloves to avoid an electric shock.
Trouble Symptom	Check the tab relays Connection properly.
Measurement Condition	With dryer power on; connector linked to controller.

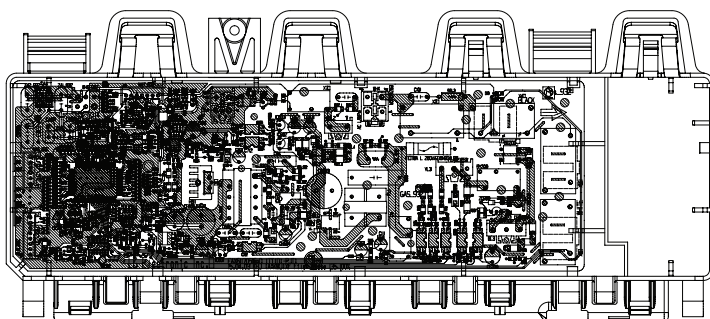
1. Power Connection

Connection of the Tab 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 Heater 1 and Heater 2.
Low Extra Low	on	off	on	off	Temperature control below $52 \pm 4^{\circ}\text{C}$ only Turn on Heater 1.

Connection of the Tab Relay with Burner (Gas)

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



* PCB ASSEMBLY LAYOUT

2. Status Mode Of The Connection

Connection of Tab Relay with the PCB ASSEMBLY (Electric)

	Color	Connection		Remark
		Harness	PCB	
Connector Housing	Black	<p>Yellow wire</p> <p>Black wire</p> <p>Connector Housing</p>	<p>Tab relay 1</p>	Check the matching color between harness wire and tab relay. (Black housing – black tab relay)
	White	<p>Blue wire</p> <p>Black wire</p> <p>Connector Housing</p>	<p>Tab relay 2</p>	Check the matching color Between harness wire and tab Relay. (White Housing – White tab Relay)

3. Incorrect Connection Error and Results.

Incorrect 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

Incorrect Connection of the Tab Relay and Connector Housing (Gas)

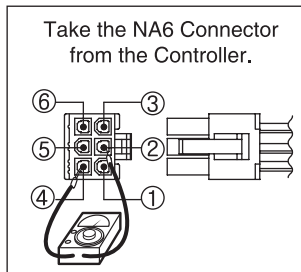
Items	Case	Heater1 Operation (black)	Heater2 Operation (White)	PCB condition of operation
1.Black and White Housing	Wire ①, ② CROSS	Off	Off	Power Off

CAUTION

–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	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.

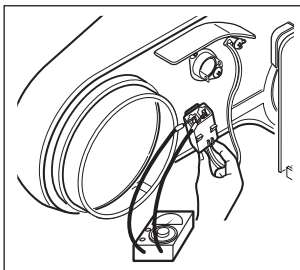


Short with metal to the NA6 connector's
Pin ① (Blue Wire) and
Pin ④ (Orange Wire) to controller.

YES

- Check if control and the 6-pin connector are properly connected.
- Replace controller

NO



Check if resistance is in the range of Table 1
when measuring resistance between
terminals after separating harness
from thermistor assembly connector.

NO

- Replace thermistor.

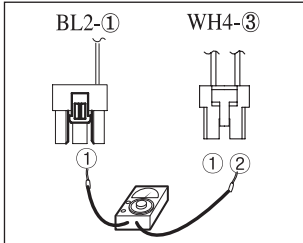
YES

Check harness-linking connector.

■ 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
80°F (21°C)	11.7	110°F (43°C)	5.2	150°F (66°C)	2.5
70°F (27°C)	9.3	120°F (49°C)	4.3	160°F (71°C)	2.2

■ Test 3 Motor 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	Drum does not rotate, fan does not turn, heater does not function.	
Measurement Condition	Turn the dryer's power off, then measure resistance.	
<div><div><div></div><div><p>BL2-① WH4-③</p></div></div><div><div><p>Is resistance below 3Ω between connector BL2- ① (White wire) and WH4-③ (Brown wire)? ※ Measure while door is closed.</p></div><div><div>YES</div><div><ul style="list-style-type: none">• Replace control. (Relay check)• Check controller connector.</div></div><div><div>NO</div><div><div><p>Is resistance below 3Ω between connector BL2- ① (White wire) and WH4-① (Yellow wire)? ※ Measure while door is closed.</p></div><div><div>NO</div><div><ul style="list-style-type: none">• Check if door frame presses door switch knob.• Check door switch.• Check harness connection.</div></div><div><div>YES</div><div><p>Is resistance below 3Ω between connector WH4-① (Yellow wire) and WH4-③ (Brown wire)?</p></div><div><div>YES</div><div><ul style="list-style-type: none">• Replace control. (Relay check)• Check controller connector.</div></div><div><div>NO</div><div><p>Is resistance below 1Ω between terminals of outlet thermostat attached to blower housing?</p></div><div><div>NO</div><div><ul style="list-style-type: none">• Replace outlet• Thermostat. (Refer to page 12)</div></div><div><div>YES</div><div><p>Does idler switch attached to motor bracket operate level by drum belt? (Not operating lever is normal.)</p></div><div><div>YES</div><div><ul style="list-style-type: none">• Check Idler assembly.• Drum belt cuts off• Drum belt takes off from motor pulley.</div></div><div><div>NO</div><div><p>Is resistance below 1Ω between idler switch terminals?</p></div><div><div>NO</div><div><ul style="list-style-type: none">• Replace idler switch.</div></div><div><div>YES</div><div><ul style="list-style-type: none">• Check motor. (Refer to page 15)• Check if control connector is contacted.</div></div></div></div></div></div></div></div></div></div> </		

■ Test 4 Moisture Sensor

Caution

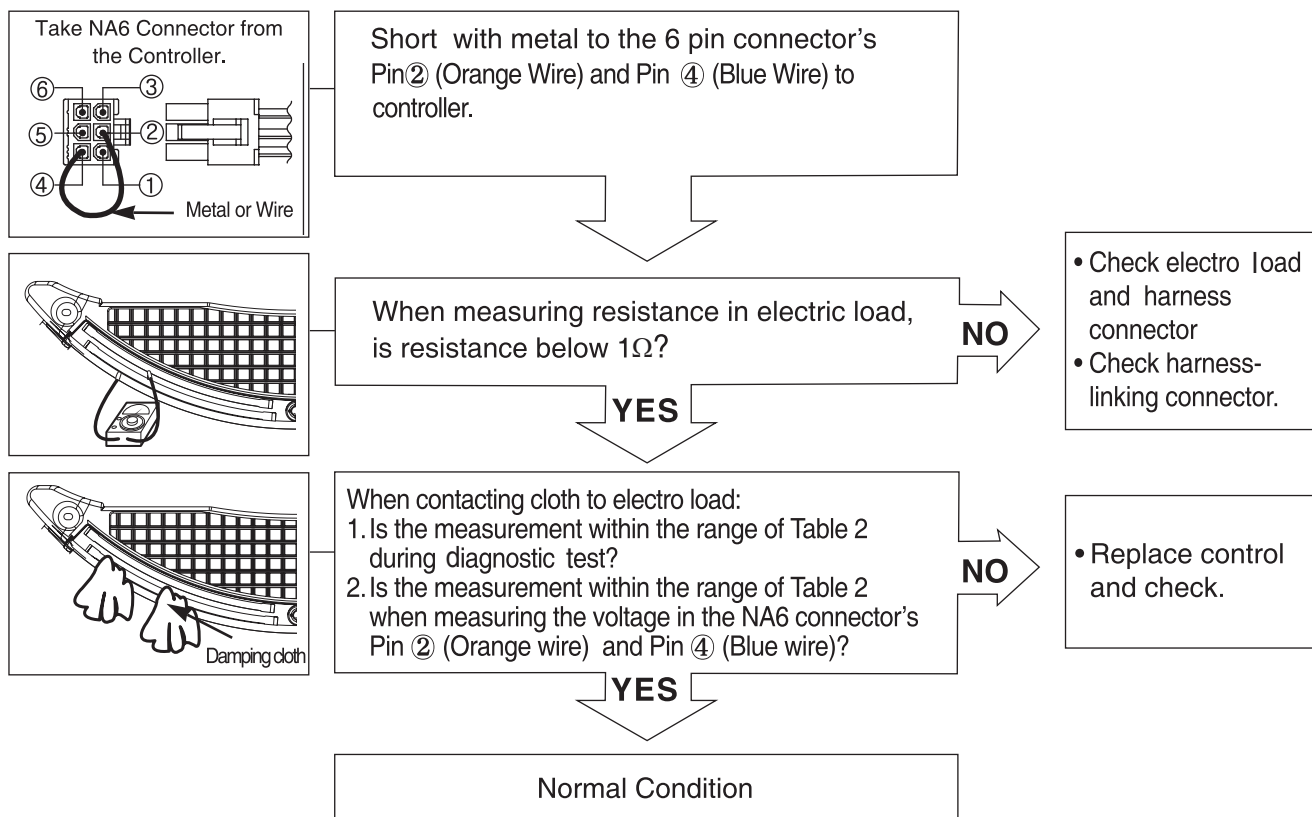
Before measuring resistance, be sure to turn power off, and do voltage discharge.
(When discharging, contact the metal plug of power cord with ground line.)

Trouble Symptom

Degree of dryness does not match with dry level.

Measurement Condition

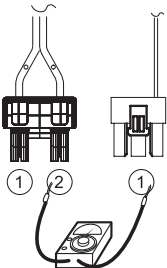
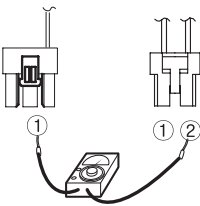
Turn the dryer's power off, then measure resistance.



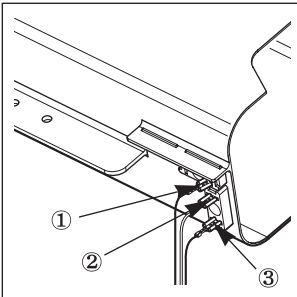
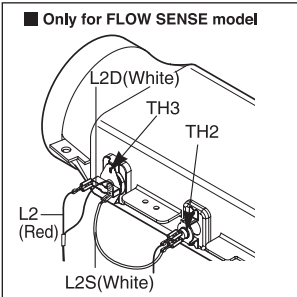
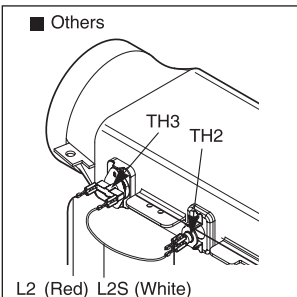
■ Table 2. IMC Ratio and Display Value / Voltage (IMC: Initial Moisture Content)

IMC	Display Value	Voltage (DC) (between NA6 terminal ②, ④)	Remark
70% ~ 40%	50 ~ 130	2.5V	Wet 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

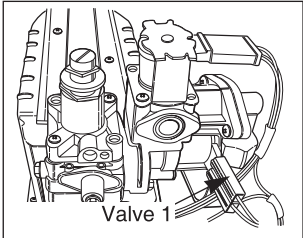
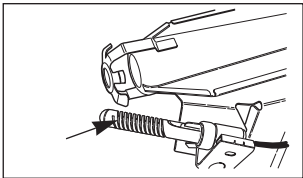
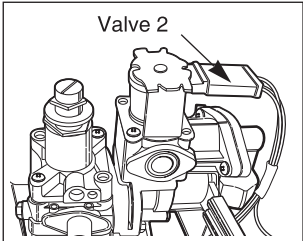
Caution	Before measuring resistance, be sure to turn power off, and do voltage discharge. (When discharging, contact the metal plug of power cord with earth line.)	
Trouble Symptom	Door opening is not sensed. (During operation, when opening door, drum motor, and heater run continuously) door close is not sensed. (Drum motor will not operate. Display will flash at half-second intervals.)	
Measurement Condition	After turning dryer power off, measure resistance.	
<div><div><div><div><div>BK2</div><div>WH1</div></div><div></div></div></div><div><div><div>Measure while door is closed. Check it resistance is below 2500Ω between BL2-① (White wire) and BK2-② Connector BL2,WH4 after taking BL2, WH4 out from controller.</div><div>YES</div></div><div><div>NO</div><div><div>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</div><div>NO</div></div><div><div>YES</div><div><div><div><div>WH 1</div><div>BL2</div></div><div></div></div></div><div><div><div>Measure while door is open. Check it resistance is below 1Ω between WH4- ① (Yellow wire) and BL2-① (White wire) after taking connector BL2,WH4 out from controller.</div><div>YES</div></div><div><div>NO</div><div><div><div>Measure while door is closed. Check it resistance is below 1Ω between WH4- ① (Yellow wire) and BL2-① (White wire) after taking connector BL2, WH4 out from controller.</div><div>NO</div></div><div><div>YES</div><div><div>Check controller. Check Harness-linking connector.</div></div></div></div><div><div><div>• Door switch check (Refer to component testing.)</div><div><div>• Check lamp. (When opening lamp, replace then measure again.)</div><div>• Door switch check (Refer to component testing.)</div></div><div><div>• Door switch check (Refer to component testing.)</div><div>• Door switch check (Refer to component testing.)</div></div></div></div></div></div></div></div></div></div>		

■ Test 6 Heater Switch Test - Electric Type

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	While operating, heating will not work. Drying time takes longer.		
Measurement Condition	After turning power off, measure the resistance.		
<div><div></div><div><div><div>1. Is resistance between heater terminal ① and ② below 18 ~ 22Ω?</div><div>2. Is resistance between heater terminal ① and ③ below 18 ~ 22Ω?</div><div>3. Is resistance between heater terminal ② and ③ below 9 ~ 11Ω?</div></div><div><div>NO</div><div>• Replace heater.</div></div></div><div><div>YES</div><div>Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety thermostat).</div><div><div>NO</div><div>• Replace TH2 (Safety thermostat) and TH3 (Hi-Limit thermostat)</div></div><div><div>YES</div><div>Check if the value of measured resistance is below 1Ω between terminal TH3 (HI-Limit thermostat).</div><div><div>NO</div><div>• Replace TH2 (Safety thermostat) and TH3 (Hi-Limit thermostat)</div></div><div><div>YES</div><div>Check motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑩ at RUN condition.</div><div><div>NO</div><div>• Check motor and replace it.</div></div><div><div>YES</div><div>Check controller. Check Harness-linking connector.</div></div></div></div></div></div>			
<div><div>■ Only for FLOW SENSE model</div><div></div></div>			
<div><div>■ Others</div><div></div></div>			
<div>※ Wires</div> <div><div>• L2 (Red)</div><div>• L2D (White) Go to the duct (YL3 in main pcb)</div><div>• L2S (White) Go to the safety.</div></div>			

- ※ Wires
- L2 (Red)
 - L2D (White) Go to the duct (YL3 in main pcb)
 - L2S (White) Go to the safety.

■ 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>NO</p> <p>When measuring Valve 1 voltage, More than DC 90 Vdc?</p> <p>NO → • Check thermostat hi-limit safety</p> <p>YES</p> <p>Igniter operates? (after 1 minute, igniter becomes reddish)</p> <p>NO → • Check igniter & flame detect</p> <p>YES</p> <p>When measuring Valve 2 voltage, value is more than DC 90Vdc? (10 sec after Igniter off)</p> <p>YES → • Check gas connection or gas supply</p> <p>NO</p> <p>When measuring terminal resistance on valve 1 and valve 2, valves are more than 1.5 ~ 2.5 kΩ? (Measure after off)</p> <p>YES → • Change valve</p> <p>NO</p> <p>If valve 1 and valve 2 are under DC 10 Vdc, valves are off?</p> <p>NO → • Change valve</p> <p>YES</p> <p>• Harness check • Controller change</p>
	
	
<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>	

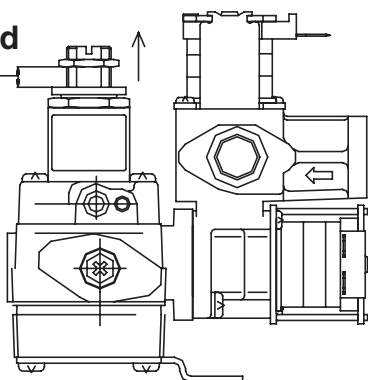
■ Test 8 Motor Assembly, DC, Pump

Caution	Before measuring resistance, be sure to turn power off, and do voltage discharge. (When discharging, contact the metal plug of power cord with the ground wire.)
Trouble Symptom	During the diagnostic test, E5 error occurs.
Measurement Condition	Turn the dryer's power off, then measure resistance.
<div style="display: flex; justify-content: space-between; align-items: flex-start; padding: 10px;"> <div style="width: 65%;"> <p>After activating the *diagnostic test, press the START/PAUSE button 4 times. Is AD value displayed higher than 10 ?</p> <p>Note : Let the dryer start each test step Before continuing to the next. If you press the button in rapid-fire succession, you could damage the main board.</p> </div> <div style="width: 30%; text-align: center;"> <p>NO</p> </div> <div style="width: 30%; border: 1px solid black; padding: 10px;"> <ul style="list-style-type: none"> • Replace the DC pump </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>YES</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>Normal condition</p> </div>	
<p>* diagnostic test : go to page 22</p>	

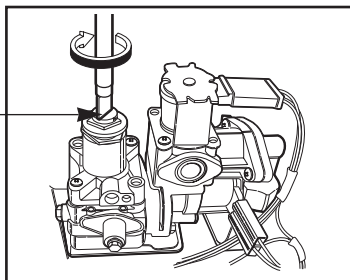
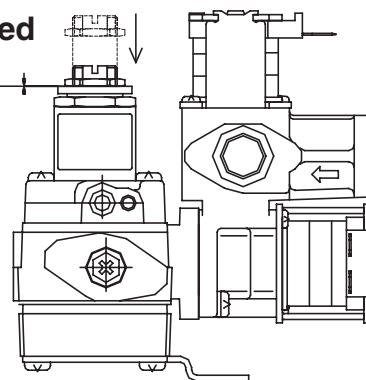
⚠ Warning

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

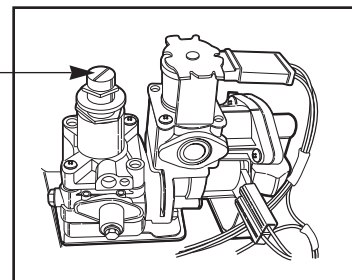
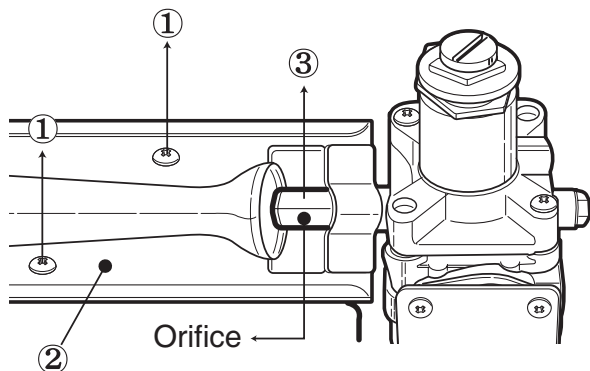
Initially, The burner is set for natural gas at the factory. The propane orifice conversion kit is sold as a service part to authorized servicers only. Part numbers are shown below.

STEP 1 : VALVE SETTING**Opened****NATURAL GAS SETTING**

Close
Adjustment screw

**Closed****PROPANE GAS SETTING**

Full open
Adjustment screw

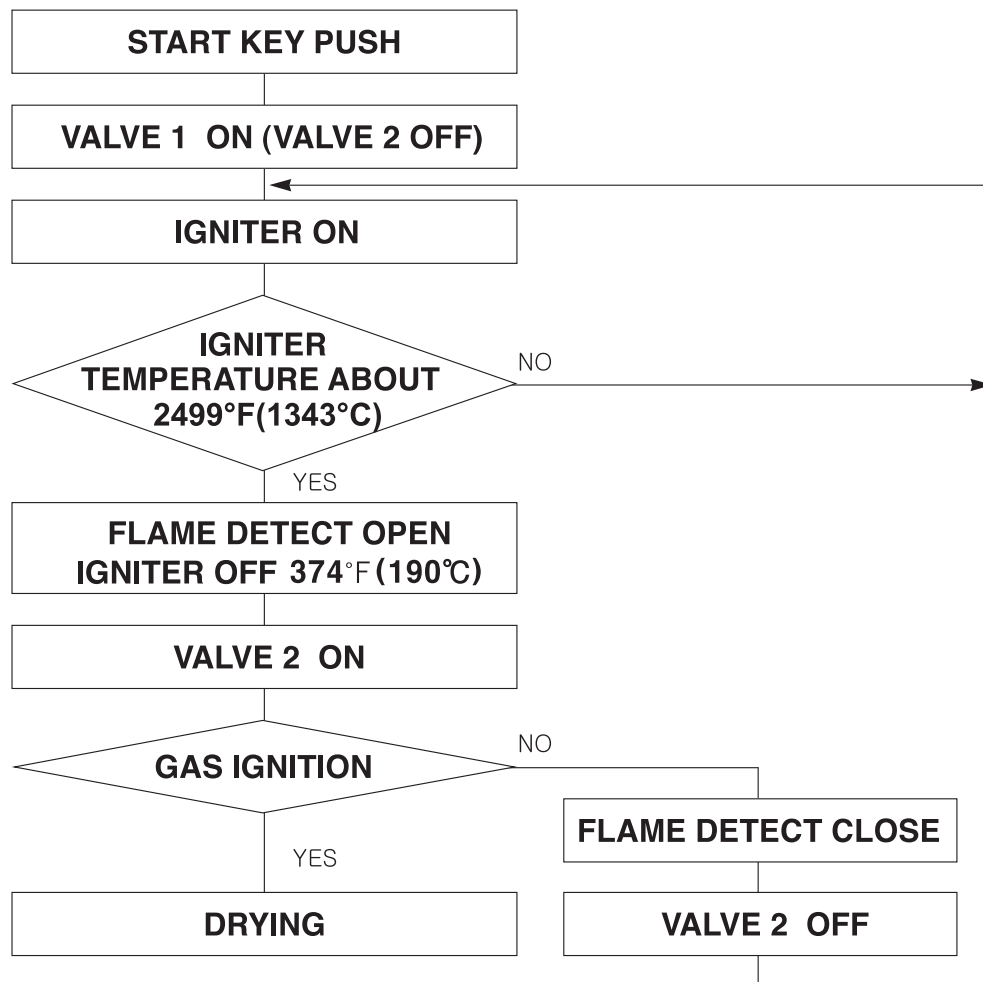
**STEP 2 : ORIFICE CHANGE**

- ① Remove 2 screws.
- ② Disassemble the pipe assembly.
- ③ Replace natural gas orifice with propane gas orifice.

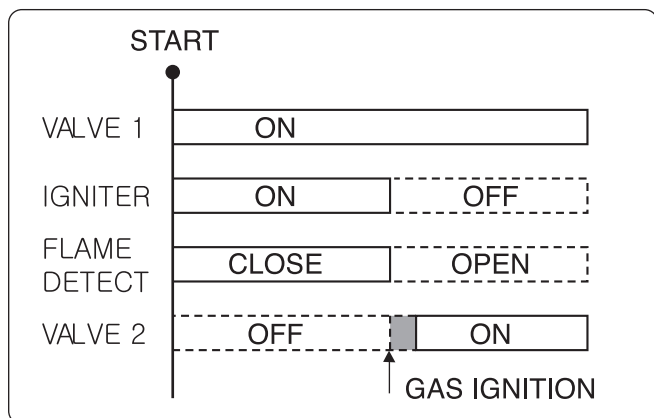
Gas type	Orifice P/No	Marking	Shape
Natural Gas	4948EL4001B	NCU	
Propane Gas	4948EL4002C	PCK	

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

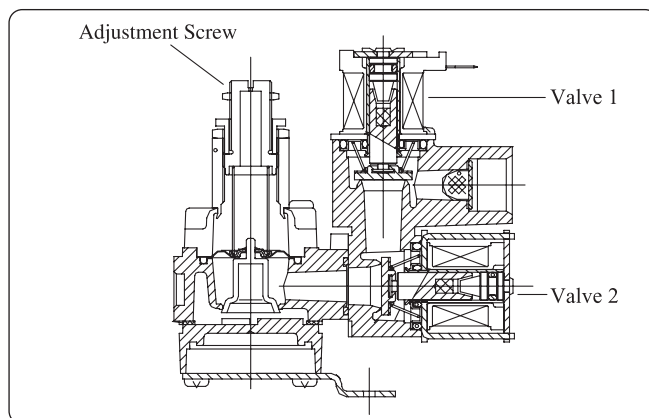
■ GAS VALVE FLOW



GAS IGNITION

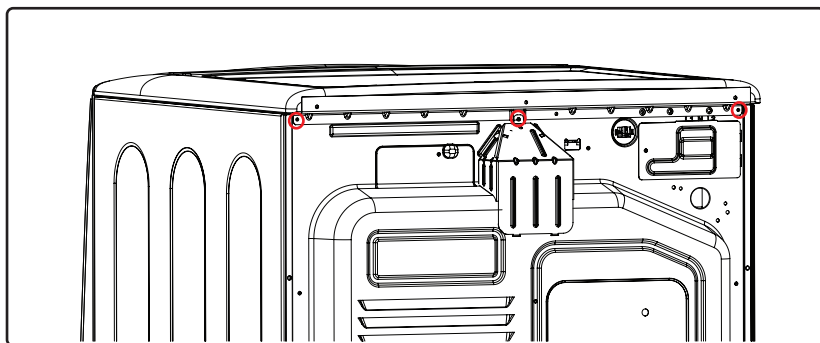


GAS VALVE STRUCTURE



※ Unplug the dryer before servicing.

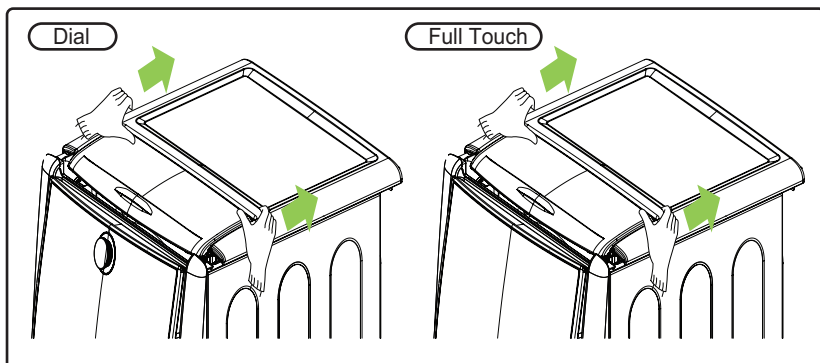
① TOP PLATE



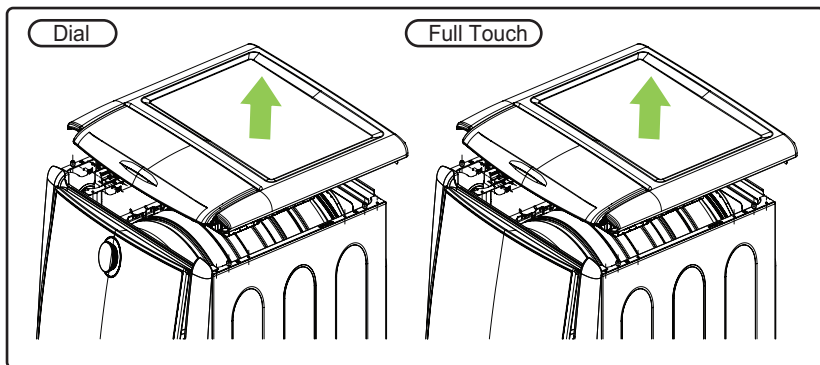
⚠ WARNING !

When you disassemble the top plate, be sure to disconnect the dryer from its electrical supply. Protect your hands and arms from sharp edges when working. To reduce the risk of injury to persons adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses.

1. Remove 3 screws on the upper plate.



2. Push the top plate backward.



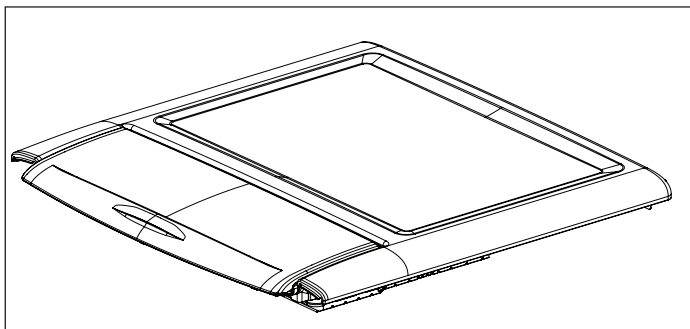
3. Lift the top plate.

⚠ WARNING !

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

Disassembling the Top Plate

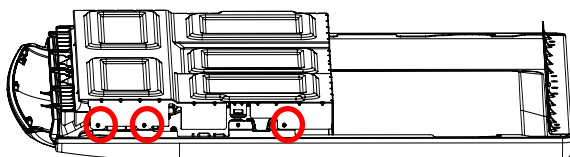
1. Top plate when assembled



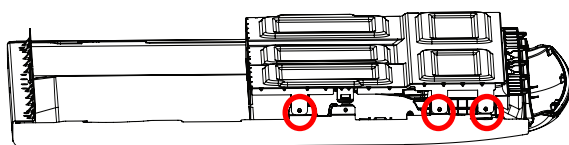
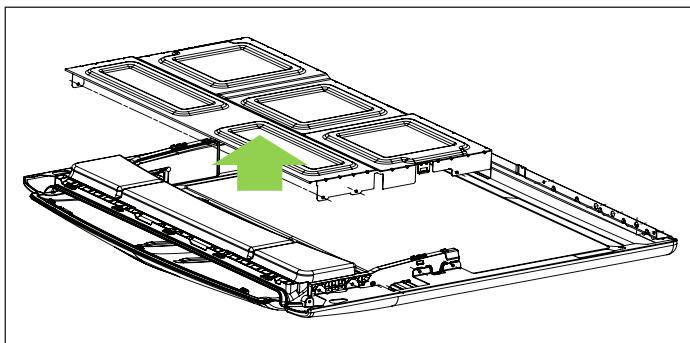
2. Disassemble the protective cover.

- ① Remove 3 screws on the left and right.
- ② Lift the protective cover.
- ③ Save parts for reassembly.

Left View

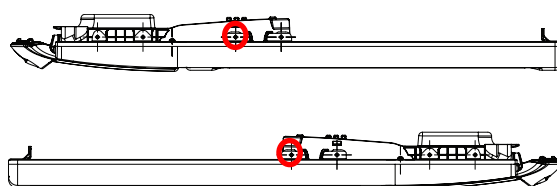
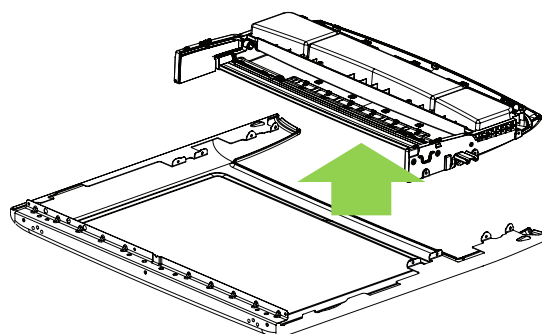


Right View



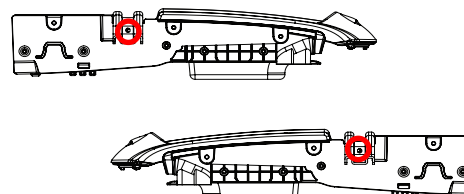
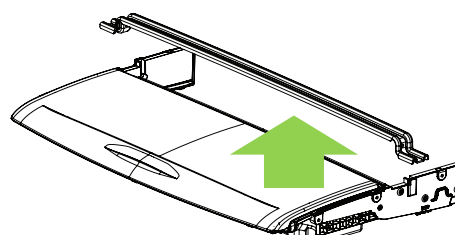
3. Disassemble the dispenser cover.

- ① Remove 1 screw on the left and right.
- ② Lift the dispenser cover assembly.
- ③ Save parts for reassembly.



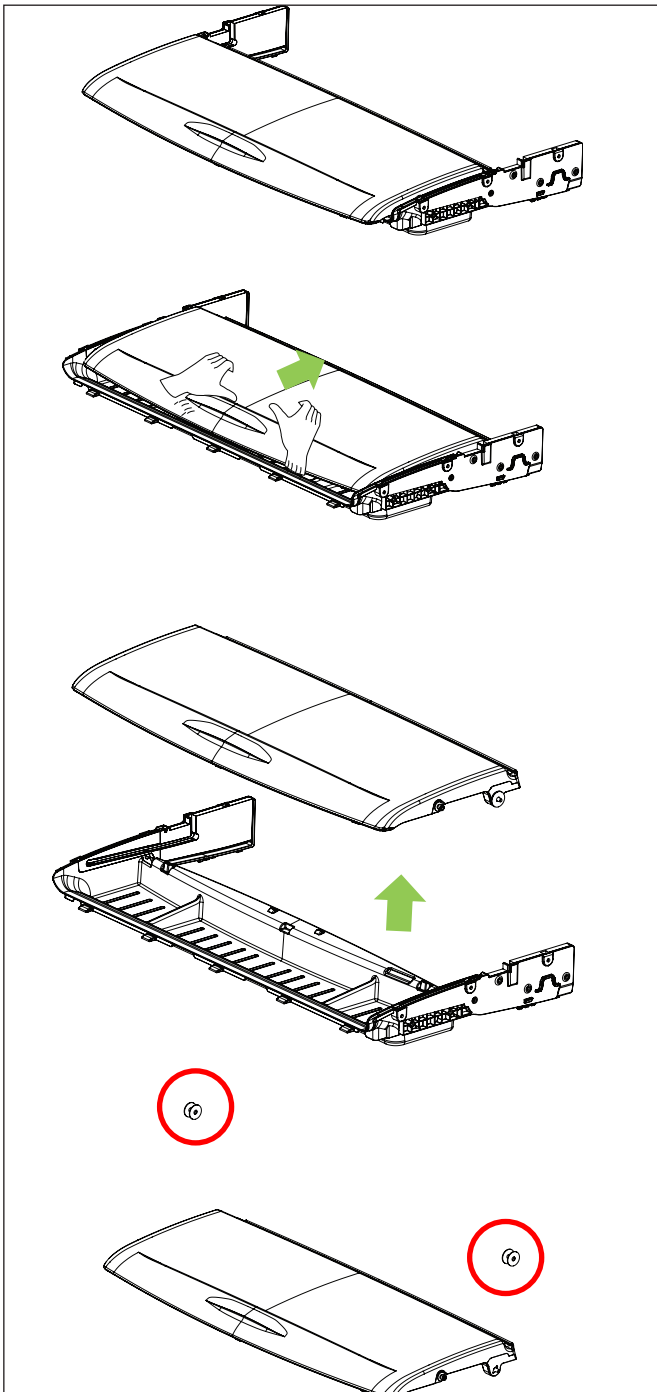
4. Disassemble the body frame.

- ① Remove 1 screw on the left and right.
- ② Lift the body frame.
- ③ Save parts for reassembly.



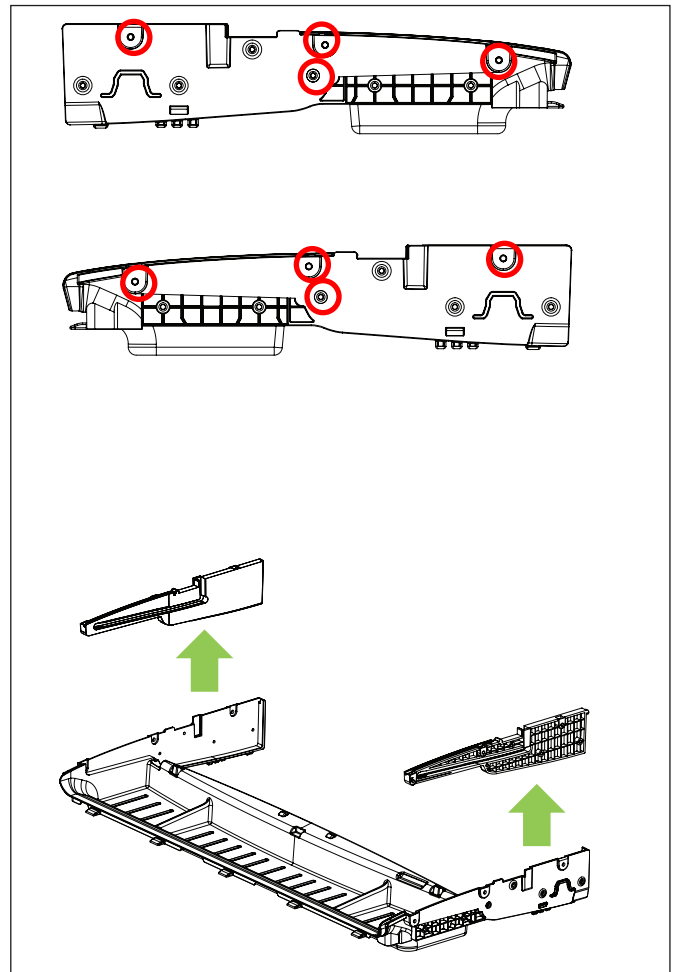
5. Disassemble the lid assembly.

- ① Slowly push the lid assembly until it meets the end rail.
- ② Lift the lid assembly.
- ③ Do not scratch the lid assembly when lifting it.
- ④ Pull out 2 washers from both sides.
- ⑤ Save parts for reassembly.

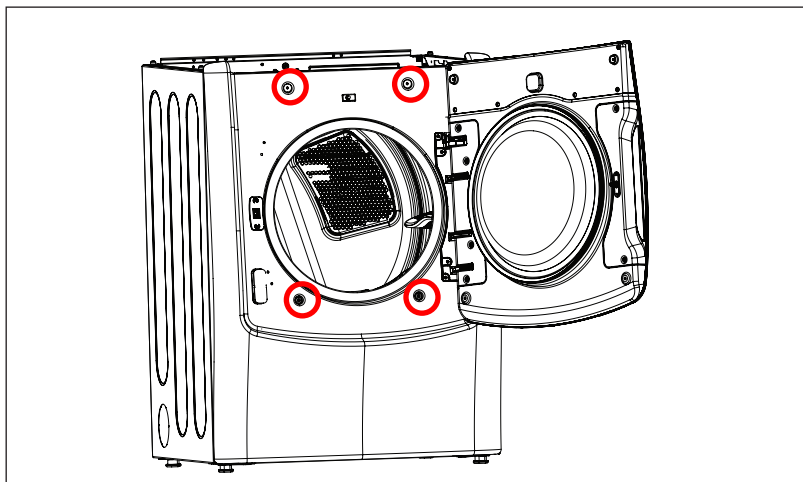


6. Disassemble the cover guide.

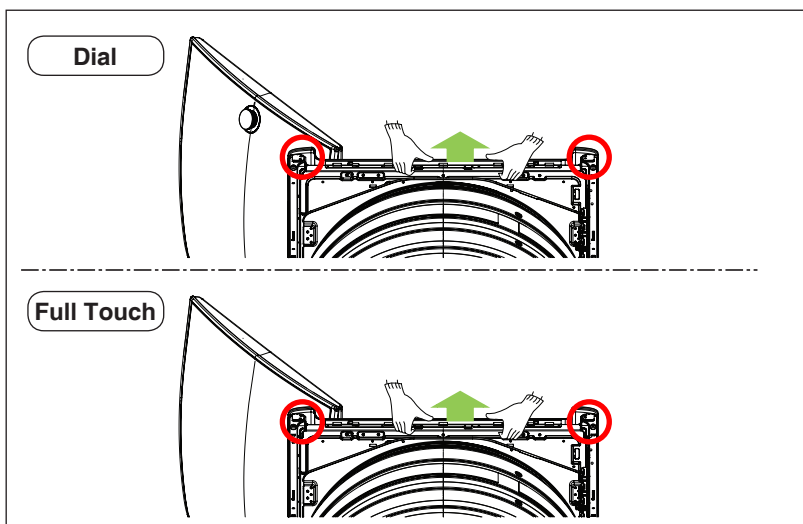
- ① Remove 4 screws on the left and right.
- ② Lift the cover guides.
- ③ Save parts for reassembly.



CABINET COVER

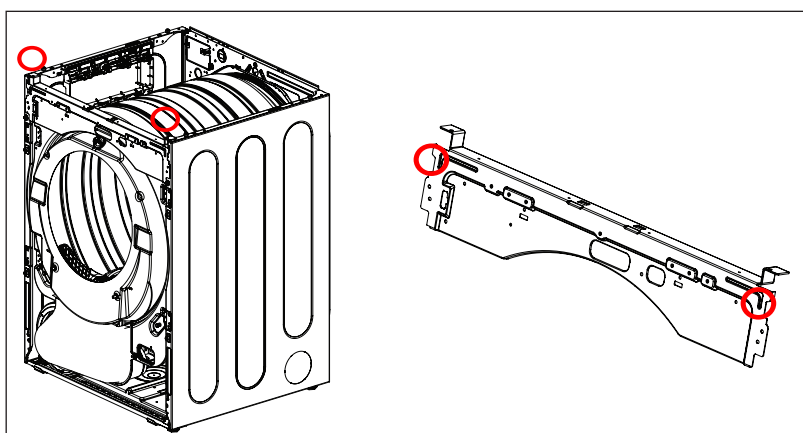


1. Open the door.
2. Remove 4 screws.



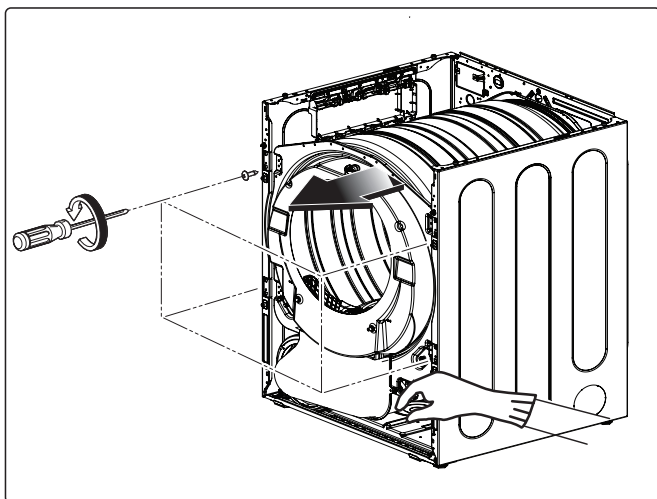
1. Remove 2 screws.
2. Lift and pull to remove the cabinet cover.

PANEL FRAME



1. Remove 2 screws on the panel frame and then remove the panel frame.

TUB DRUM [FRONT]

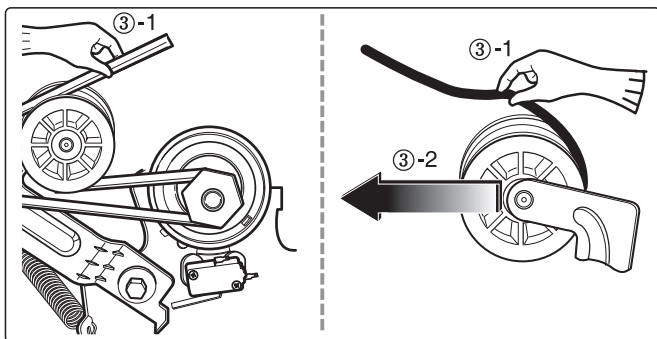


⚠ WARNING !

When you disassemble the lamp connector, be sure to disconnect the dryer from its electrical supply. Protect your hands and arms from sharp edges when working. To reduce the risk of Injury to persons adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses.

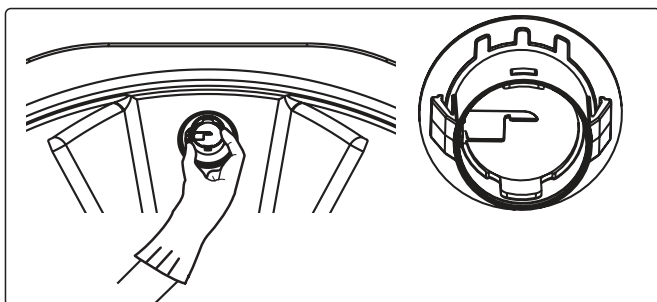
1. Disconnect the door lamp and electrode sensor connector.
2. Remove 4 screws.

DRUM ASSEMBLY



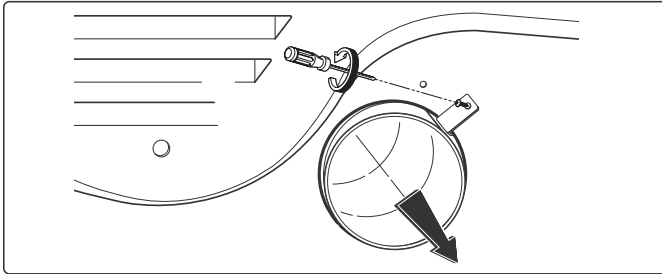
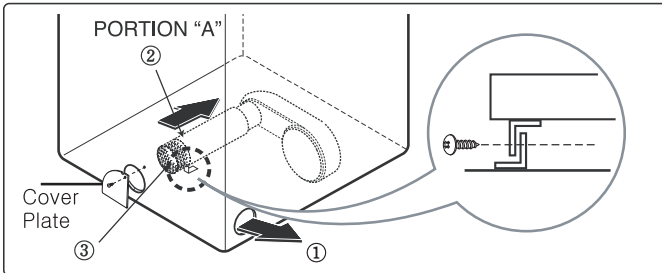
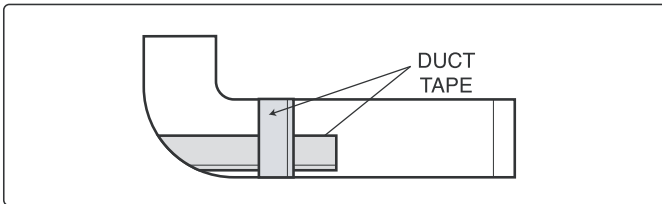
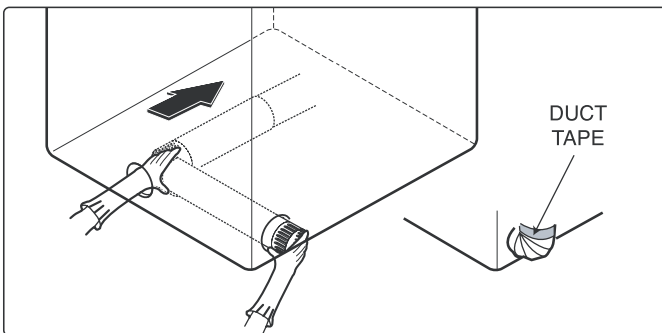
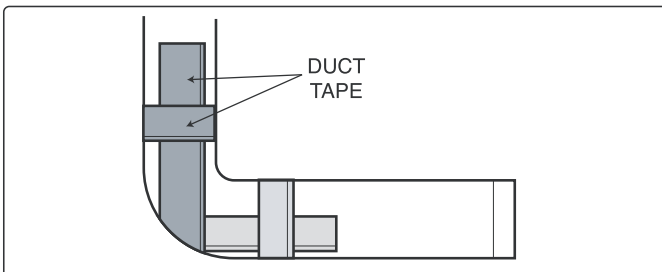
1. Open the top plate.
2. Remove the cabinet cover and the front bulkhead.
3. Loosen belt from motor and idler pulleys.
4. Carefully remove the drum.

CHANGING THE DRUM LIGHT



1. Remove the control panel.
2. Hold the light in place while the base of the light on both sides.
3. Replace the light with a new light.

DRYER EXHAUST CHANGE



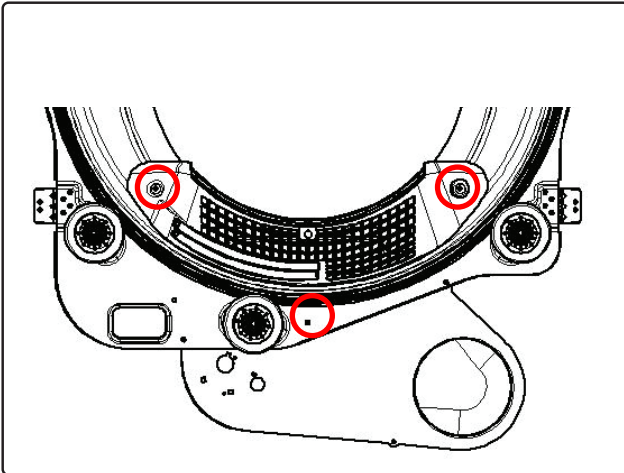
⚠ WARNING !

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 Injury to persons adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses.

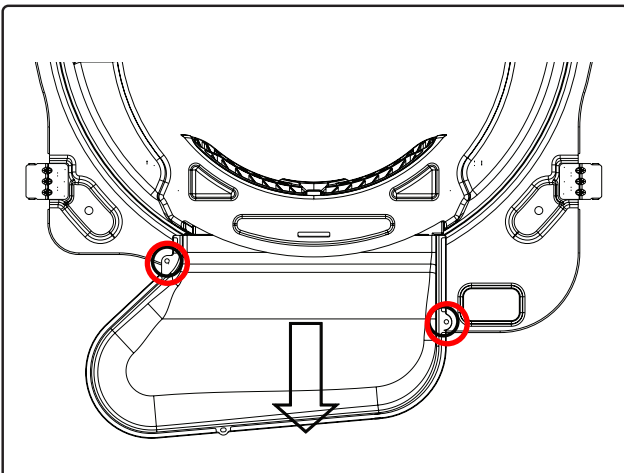
1. Remove screw and exhaust duct.
2. Detach and remove a knockout at the bottom left or right side as desired. (Right side vent not available on gas dryer)
①, ②, and ③ indicate the steps, in order.
3. Replace the removed piece with the short, tabbed duct from the kit and tighten the screw.
(The kit is a service part.)
4. Attach the elbow to the other short piece of 4" duct from the kit. Tape the joint.
5. Insert the elbow duct assembly through the side opening and connect the elbow to the internal duct. Tape the joint.

Note : Use real foil duct tape. Do not use the inexpensive canvas and adhesive tape. It will dry out, leak lint, and present a fire hazard.

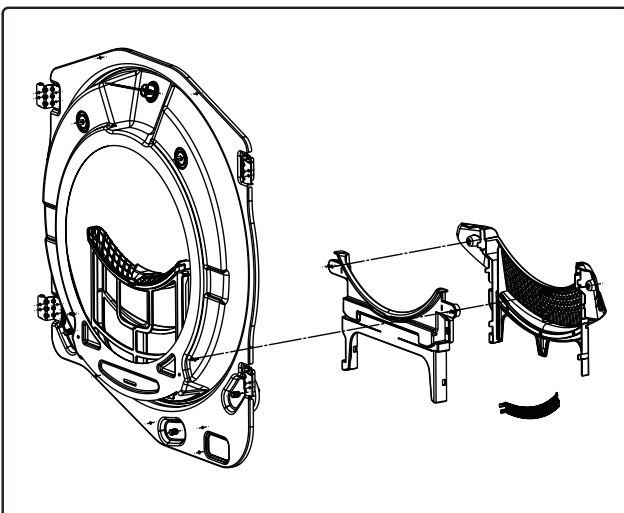
AIR DUCT & FILTER ASSEMBLY



1. Remove 5 screws.



2. Pull down to remove the air duct.

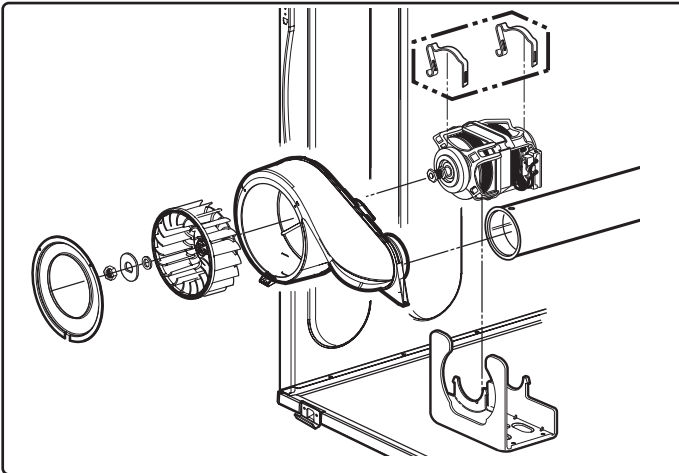


3. Remove the filter.

4. Remove cover filter and guide filter.

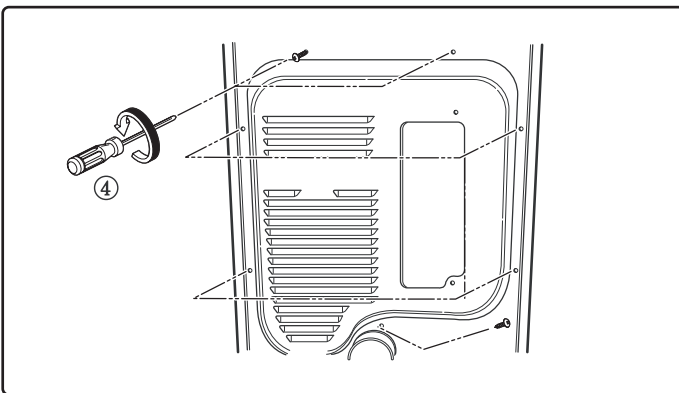
5. Disconnect the electrode sensor.

BLOWER HOUSING



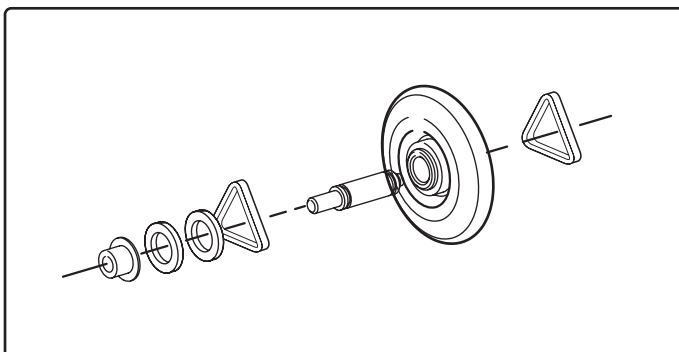
1. Remove the top plate.
2. Remove the cabinet cover and front bulkhead.
3. Remove the drum assembly.
4. Remove 2 screws and cover (air guide).
5. Remove the bolt and washer.
6. Remove the blower wheel. (Left-hand thread).
7. Disconnect the motor clamp and motor.

BACK COVER



1. Open the top plate.
2. Remove the cover cabinet and front bulkhead.
3. Remove the drum assembly.
4. Remove 7 screws.
5. Pull the rear bulkhead towards the front.

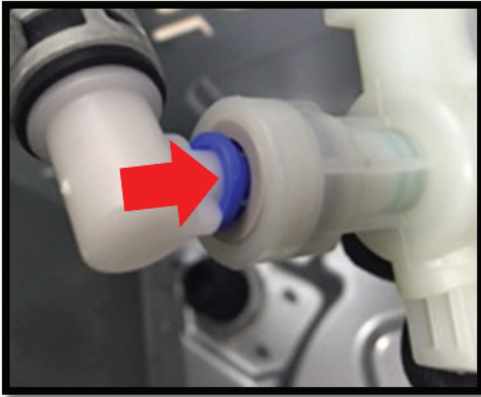
ROLLERS



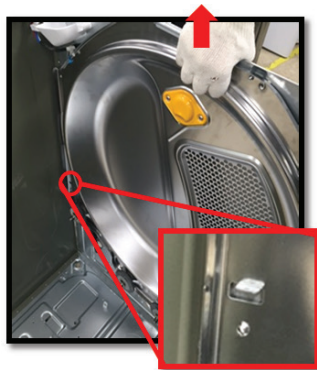
1. Disassemble the top plate.
2. Remove the cover cabinet and front bulkhead.
3. Remove the drum assembly and front bulkhead.
4. Disconnect the air duct from the front bulkhead.
5. Remove the rollers from the front bulkhead and rear bulkhead.

Replacing the Inlet Hose

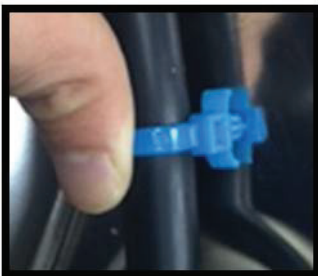
1. Press and hold the release ring to remove the hose from the nozzle.



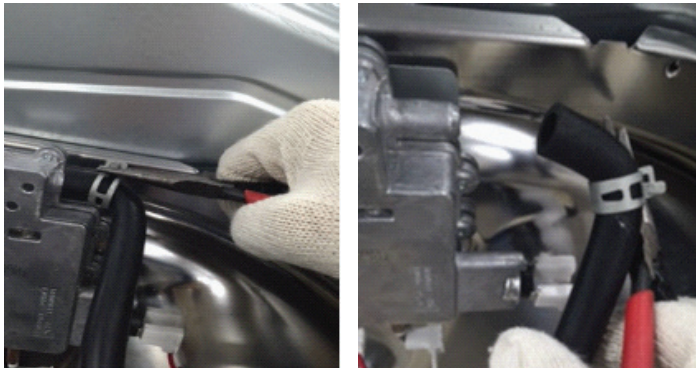
2. Remove the 7 screws from the rear cover.
3. Lift the rear tub off the support and pull it out.



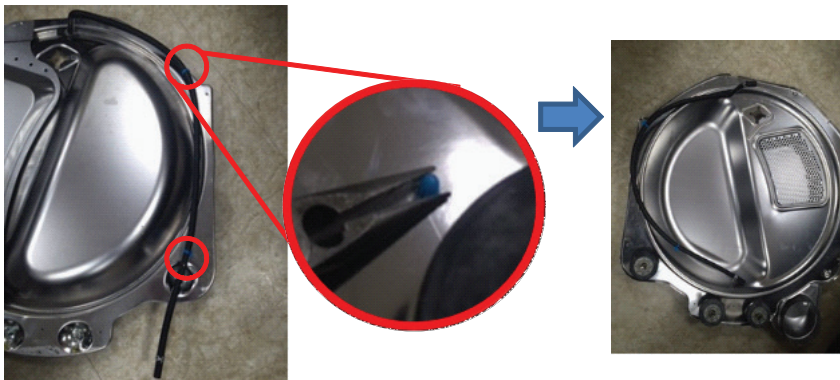
4. Replace the hose, and assemble the cable tie holder in the rear tub.



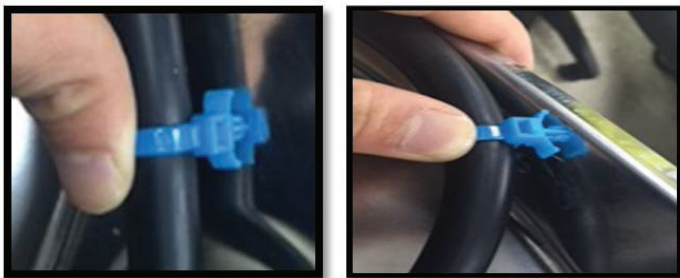
5. Remove the hose in generator.



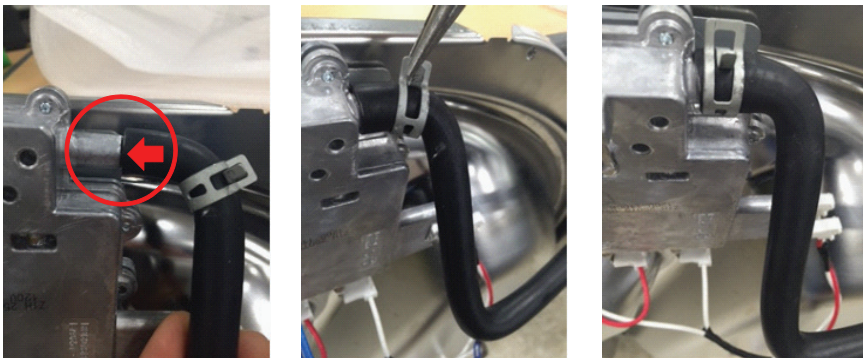
6. Remove the cable tie holder in the rear tub.



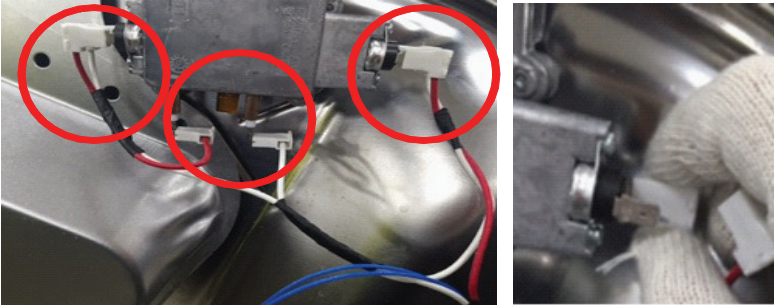
7. Replace the hose, and assemble the cable tie holder in the rear tub.



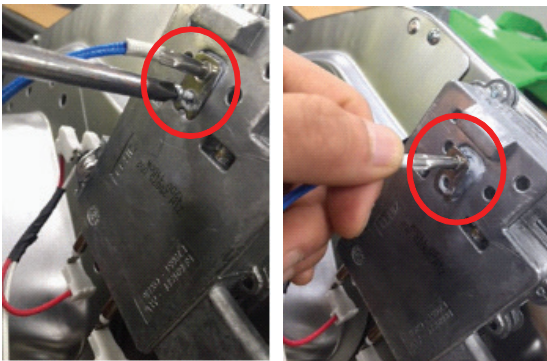
8. After connection the hose to the generator, install the clamp.



1. Remove the six connectors from the generator.



2. Remove the thermistor screw from the generator.



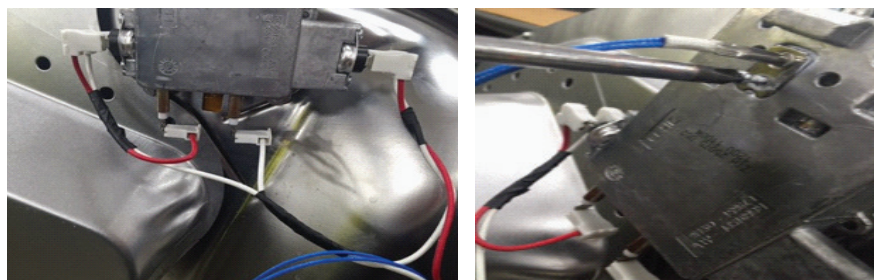
3. Remove the steam harness cable tie holder in the rear tub.

4. Replace the steam harness and assemble the cable tie holder in the rear tub.

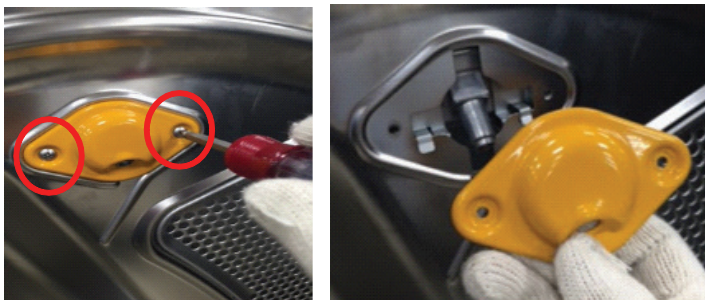


5. Assemble the steam harness.

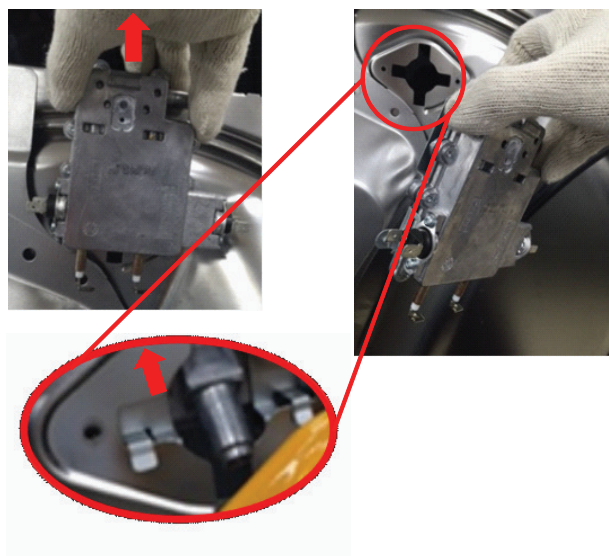
6. Attach the thermistor and the screws to the generator.



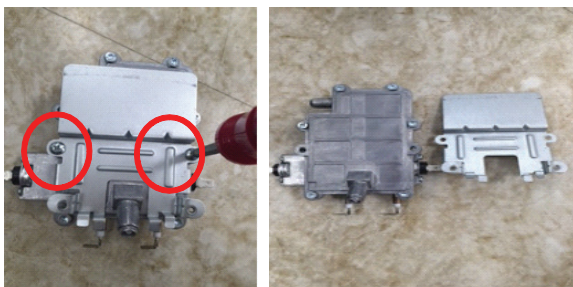
1. Remove the cover and screws.



2. To remove the rear tub, take off the steam generator first. Then remove the rear tub.



3. Remove the bracket from the steam generator.



4. Reassemble the steam generator and bracket.

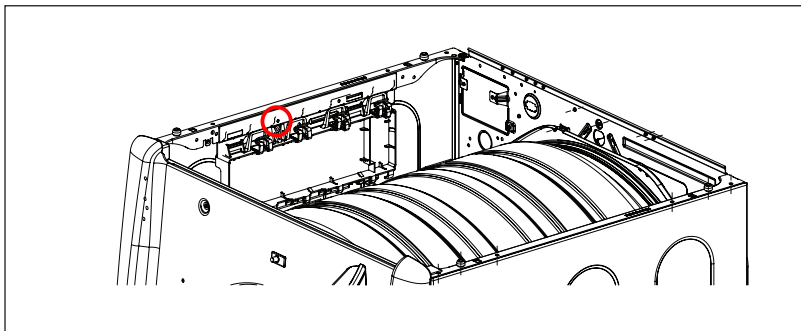


5. Assemble the cover and screws.



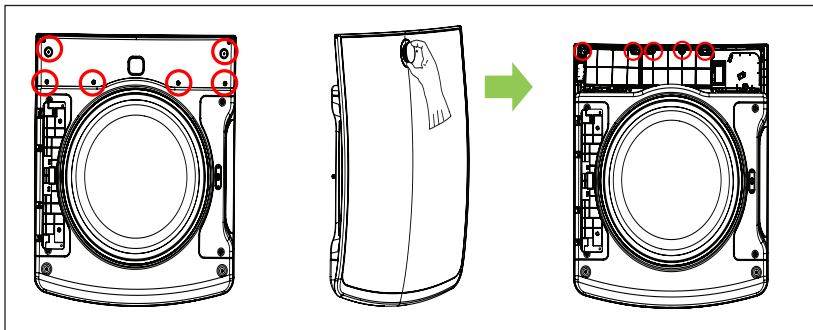
How to Replace Main PCB & Display PCB

1. Main PCB disassembly



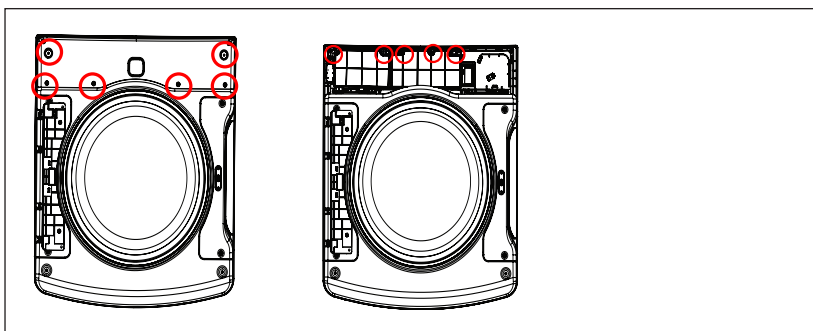
1. Remove 1 screw.
2. Disassemble main PCB.

2. Display PCB disassembly(Dial)



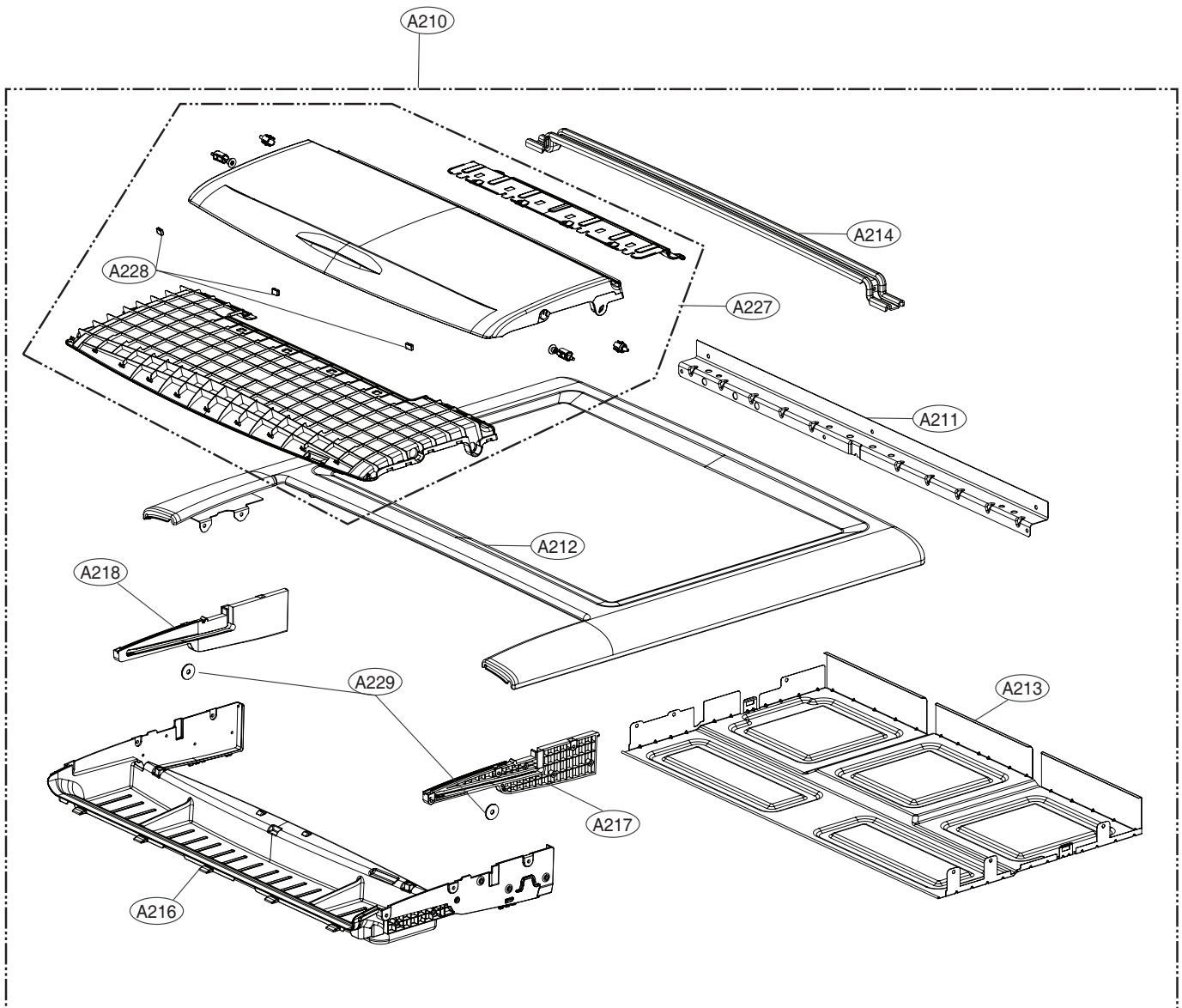
1. Remove 6 screws on the service cover.
2. Pull the knob assembly.
3. Remove 5 screws on the display PCB.

2. Display PCB disassembly(Full touch)

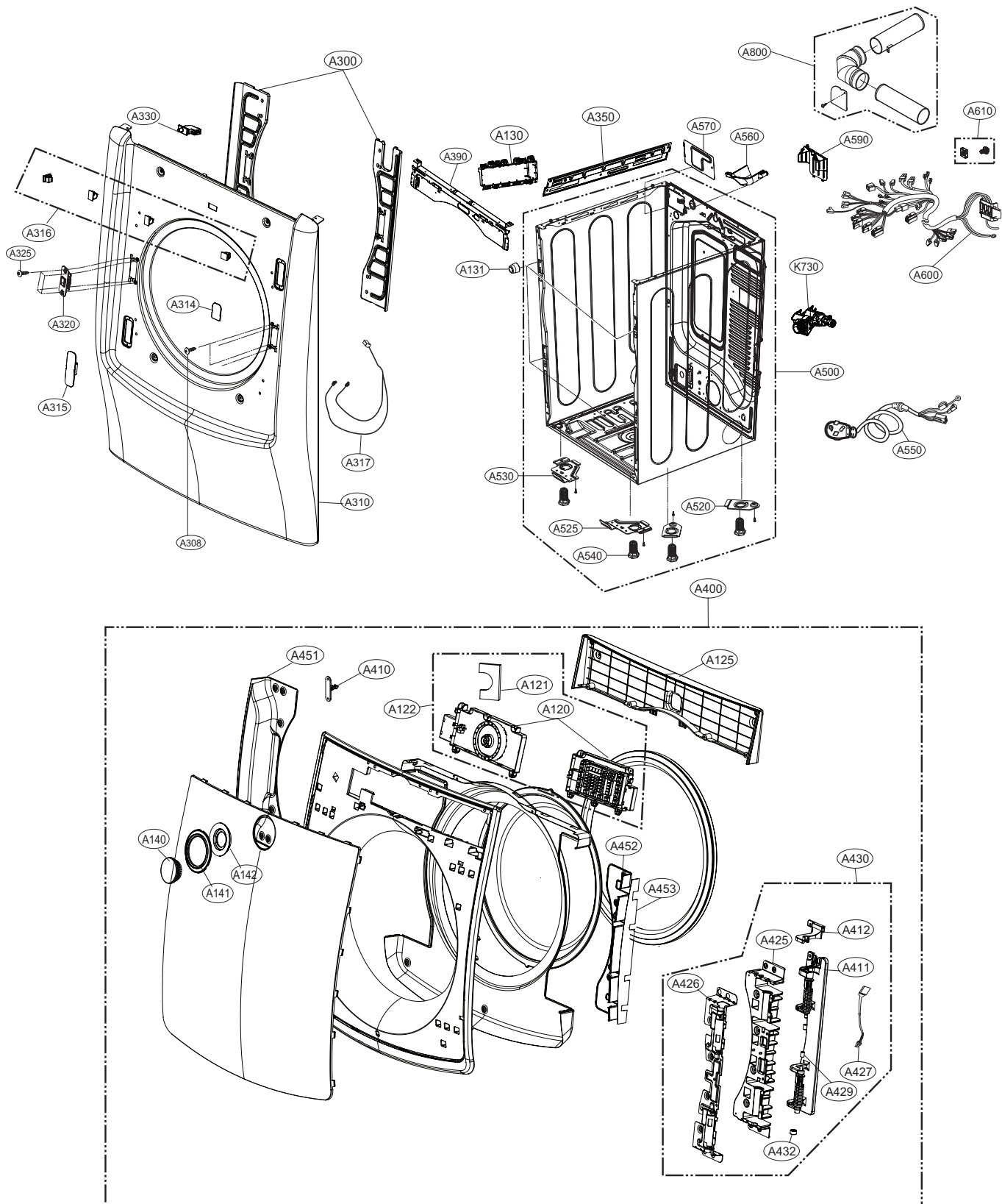


1. Remove 6 screws on the service cover.
2. Remove 5 screws on the display PCB.

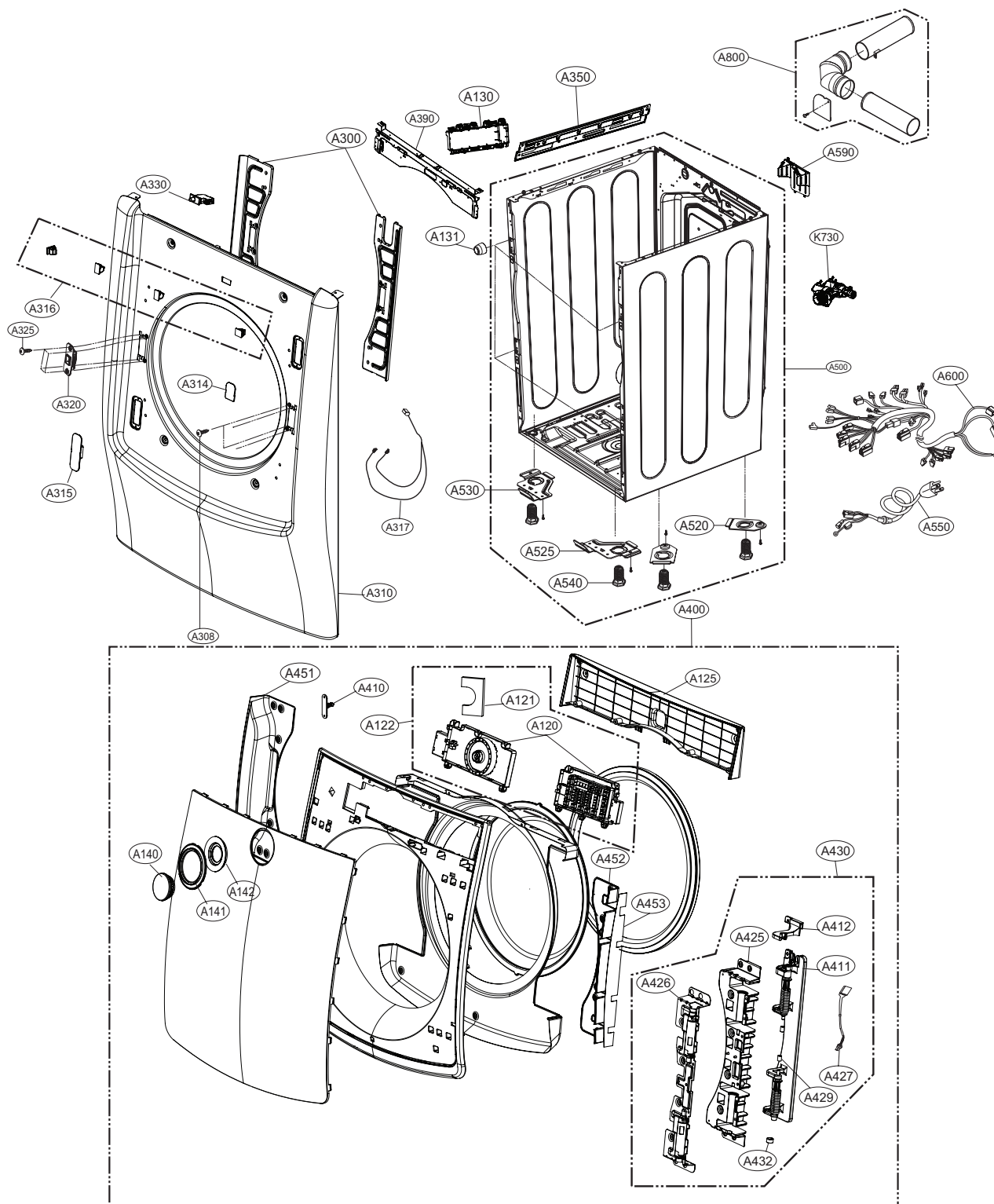
13-1. Plate Assembly



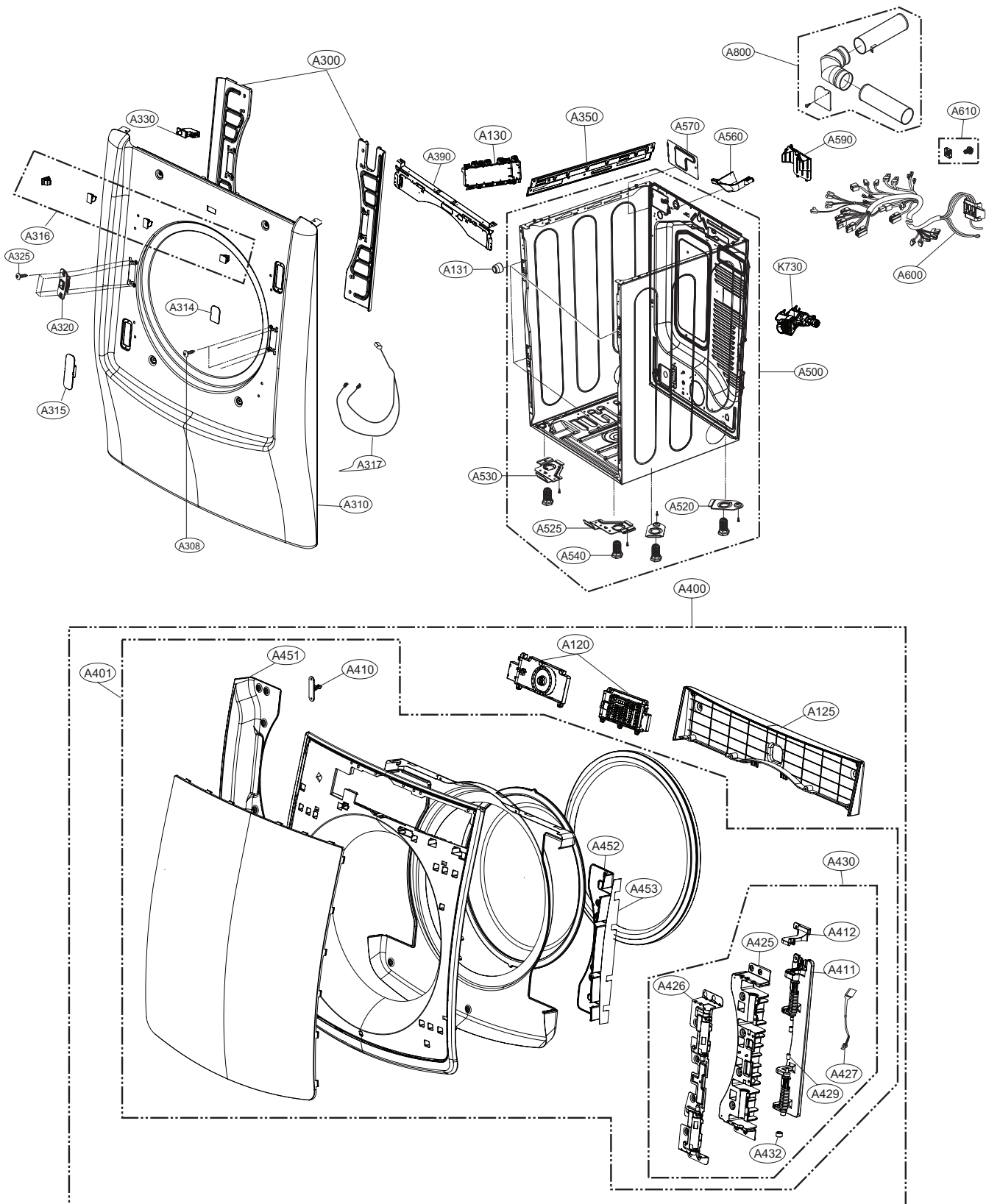
13-2-1. Cabinet and Door Assembly: Electric Type (Dial)



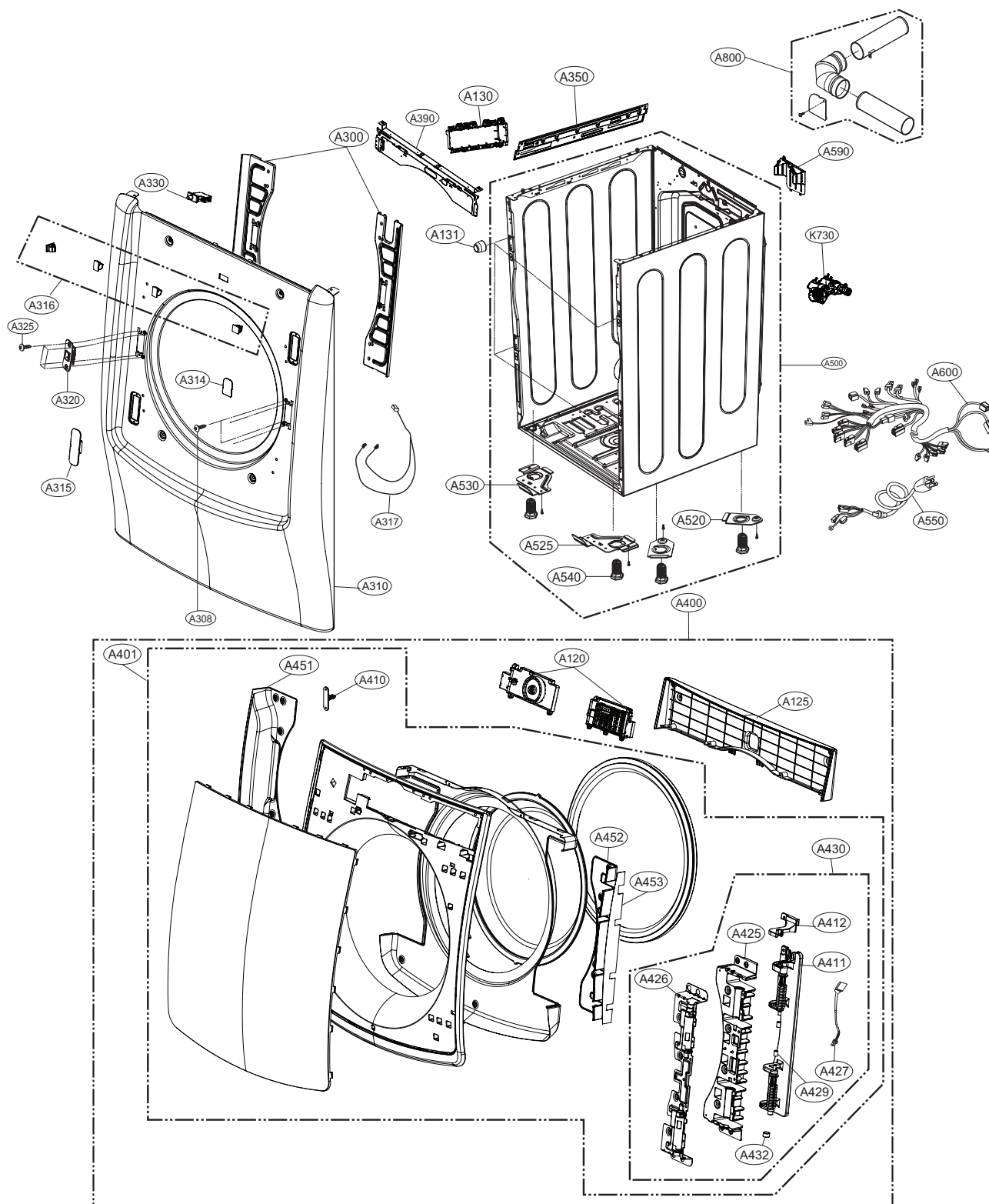
13-2-2. Cabinet and Door Assembly : Gas Type (Dial)

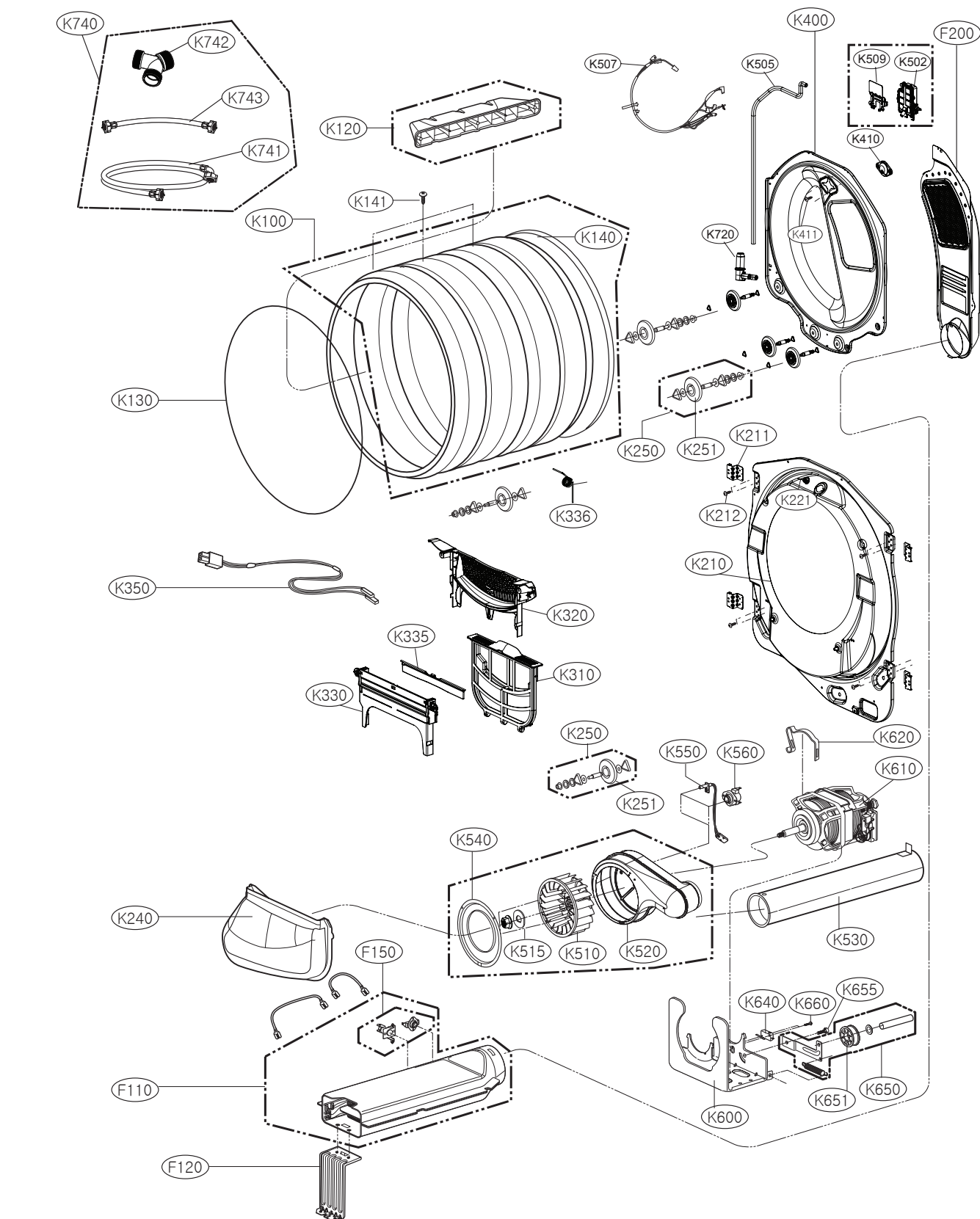


13-2-3. Cabinet and Door Assembly: Electric Type (Full touch)

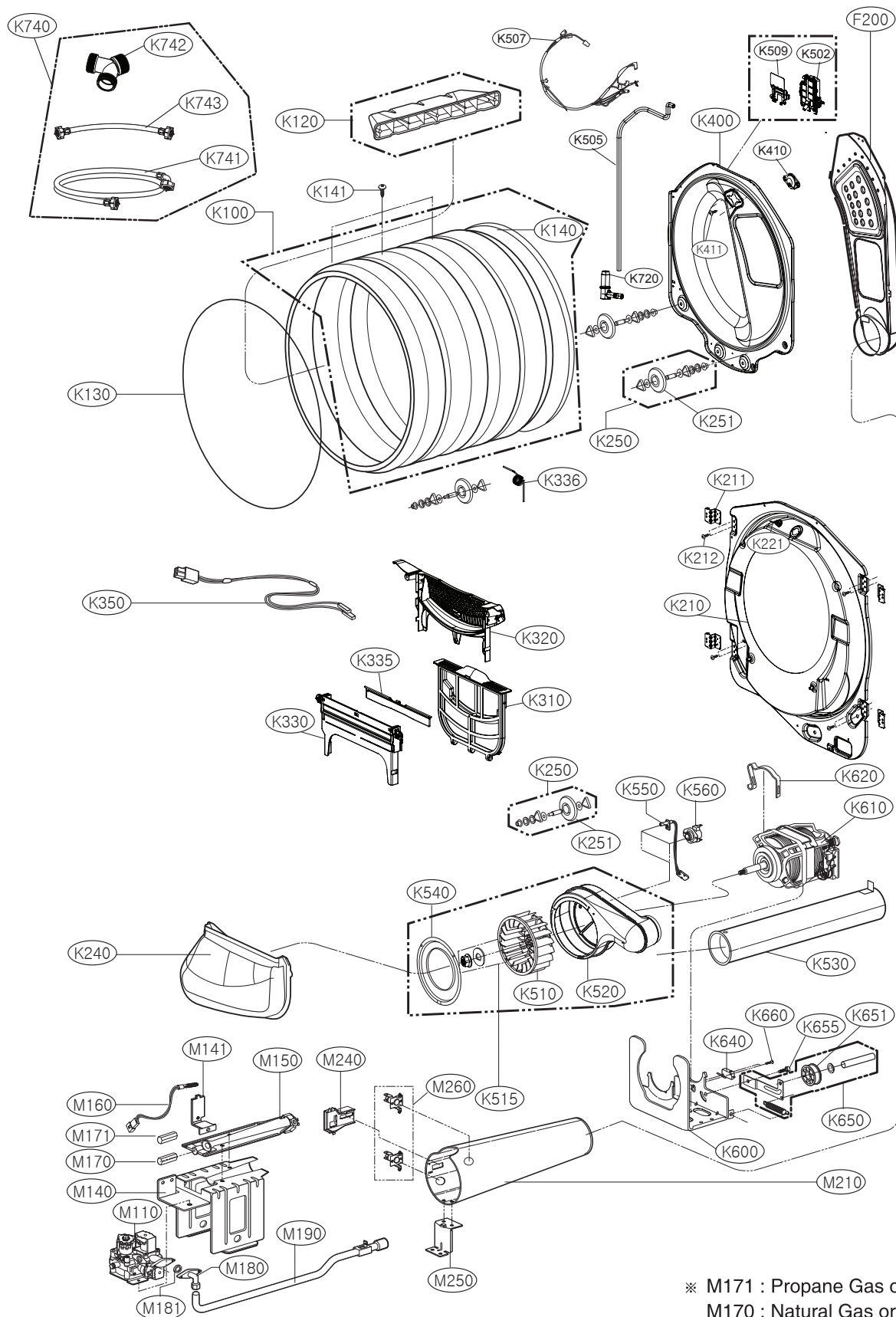


13-2-4. Cabinet and Door Assembly: Gas Type (Full touch)





13-3-2 Drum and Motor Assembly: Gas Type





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