

# ELECTRIC & GAS DRYER SERVICE MANUAL

#### **CAUTION**

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLES CORRECTLY BEFORE OFFERING SERVICE.

MODEL: 796.8002\*.900 / 796.8027\*.900 / 796.8031\*.900 /

796.9002\*.900 / 796.9027\*.900 / 796.9031\*.900



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## **IMPORTANT SAFETY NOTICE**

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

# **A** WARNING!

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

## RECONNECT ALL GROUNDING DEVICES

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

#### WHAT TO DO IF YOU SMELL GAS:

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

#### **IMPORTANT**

Electrostatic Discharge (ESD)
Sensitive Electronics

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

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

- OR -

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

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

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# SPECIFICATIONS

ITEM			796.8002*.900 / 796.8027*.900 / 796.8031*.900 / 796.9002*.900 / 796.9027*.900 / 796.9031*.900	REMARK
	Color		White / Patina Beige	
Material & Finish	7	Top Plate	Spray	
1 1111011	С	oor Trim	Light Gray	
POWER	RSU	PPLY	120V / 240V 60Hz (26A)	
		MOTOR	250W (4.5A)	AC 120V
   ELECTRICI <sup>-</sup>	ΓY	HEATER	5400W (22.5A)	AC 240V ( ELECTRIC TYPE)
CONSUMPTI		LAMP	15W (125mA)	AC 120V
		GAS VALVE	13W (110mA) X 2	AC 120V ( GAS TYPE)
CONTF	ROL	ГҮРЕ	Electronic	
DRUM (	CAPA	ACITY	7.1 cu.ft.	
Weight (lbs	s): N	et/Gross	126 / 144	
No. of	Prog	rams	9	
No. of [	Ory C	ption	5	
No. of Tempe	eratu	re Controls	5	
No. of [	Ory L	evels	5	
Audible End	of Cy	cle Beeper	High / Low / Off	
0	ı	Moisture	Equipped	Electro sensor
Sensor	Те	mperature	Equipped	Thermistor
Reversible Door		Door	Adopted	
Drum			Double Coated Steel	
Dryer Rack		ck	Equipped	
Child lock		k	Equipped	
Interior Light		ght	Equipped	
Product	(WX	(HXD)	27" x 38" x 28 <sup>1</sup> /3"	
Packing	(WX	(HXD)	29 <sup>1</sup> /2" x 44 <sup>3</sup> /4" x 30 <sup>3</sup> /4"	

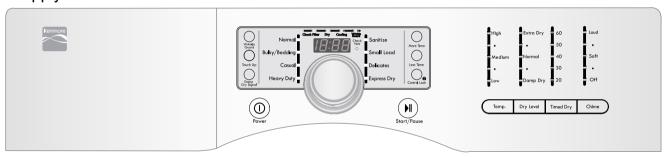
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# **FEATURES AND BENEFITS**

■ Apply Model: 796.8002\*.900 / 796.8027\*.900 / 796.8031\*.900



■ Apply Model: 796.9002\*.900 / 796.9027\*.900 / 796.9031\*.900

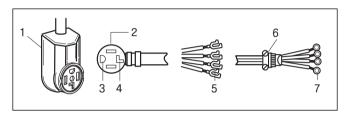


## **INSTALLATION INSTRUCTIONS**

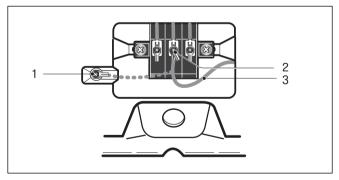
#### 3-1. POWER CORD

#### 1) 4-wire connection

IMPORTANT: A 4-wire connection is required for mobile homes and where local codes do not permit the use of 3 wire connections.

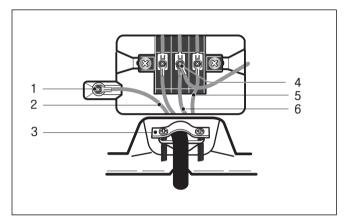


- 1. 4-wire receptacle (NEMA type 14-30R)
- 2. 4-prong plug
- 3. Ground prong
- 4. Neutral prong
- 5. Spade terminals with upturned ends
- 6. 3/4 in. (1.9 cm) UL approved strain relief
- 7. Ring terminals
- 1. Remove center terminal block screw.
- 2. Remove appliance ground wire (green) from external ground connector screw. Fasten it under center, silver colored terminal block screw.



- 1. External ground connector Dotted line shows position of NEUTRAL ground wire before being moved to center terminal block screw
- 2. Center silver-colored terminal block screw
- 3. Green wire of harness

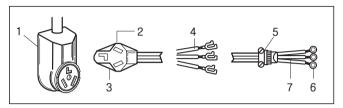
- **3.** Connect ground wire (green or bare) of power supply cable to external ground conductor screw. Tighten screw.
- **4.** Connect neutral wire (white or center wire) of power supply cord to the center, silver colored terminal screw of the terminal block.



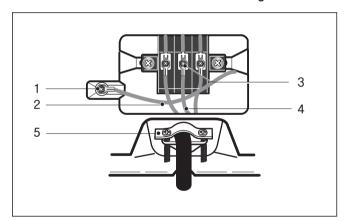
- 1. External ground connector
- 2. Green or bare copper wire of power supply cord
- 3. 3/4 in. (1.9 cm) UL-listed strain relief
- 4. Center silver-colored terminal block screw
- 5. Neutral grounding wire (green)
- 6. Neutral wire (white)
- **5.** Connect the other wires to outer terminal block screws. Tighten screws.
- 6. Tighten strain relief screws.
- 7. Insert tab of terminal block cover into slot of dryer rear panel Secure cover with hold-down screw.

#### 2) 3-wire connection

# Use where local codes permit connecting cabinet-ground conductor to neutral wire.



- 1. 3-wire receptacle (NEMA type 10-30R)
- 2. 3-wire plug
- 3. Neutral prong
- 4. Spade terminals with up turned ends
- 5. 3/4 in. (1.9 cm) UL approved strain relief
- 6. Ring terminals
- 7. Neutral (white or center wire)
- 1. Loosen or remove center terminal block screw.
- Connect neutral wire (white or center wire) of power supply cord to the center, silver colored terminal screw of the terminal block. Tighten screw.

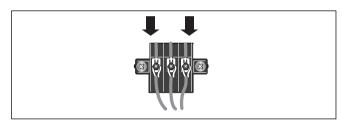


- 1. External ground connector
- 2. Neutral grounding wire (green)
- 3. Center silver-colored terminal block screw
- 4. Neutral wire (white or center wire)
- 5. 3/4 in. (1.9 cm) UL-listed strain relief
- **3.** Connect the other wires to outer terminal block screws. Tighten screws.
- 4. Tighten strain relief screws.
- Insert tab of terminal block cover into slot of dryer rear panel. Secure cover with hold-down screw.

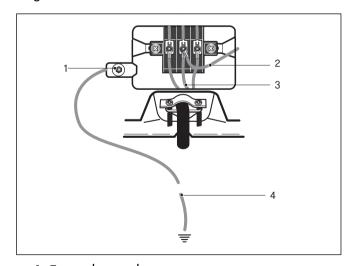
## 3) Optional 3-wire connection

# Use where local codes permit connecting cabinet-ground conductor to neutral wire.

- 1. Remove center terminal block screw.
- 2. Remove appliance ground wire (green) from external ground connector screw. Connect appliance ground wire and the neutral wire (white or center wire) of power supply cord/cable under center, silver colored terminal block screw. Tighten screw.
- **3.** Connect the other wires to outer terminal block screws. Tighten screws.



- 4. Tighten strain relief screws.
- **5.** Insert tab of terminal block cover into slot of dryer rear panel. Secure cover with hold-down screw.
- **6.** Connect a separate copper ground wire from the external ground connector screw to an adequate ground.

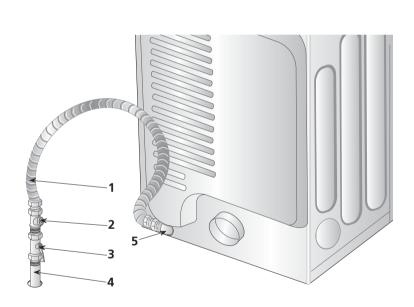


- 1. External ground connector
- 2. Neutral grounding wire (green)
- 3. Neutral wire (white or center wire)
- 4. Grounding path determined by a qualified electrician

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

For further assistance, refer to section on Gas Requirements.

- Make certain your dryer is equipped for use with the type of gas in your laundry room. Dryer is equipped at the factory for Natural Gas with a 3/8" 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.



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

# 4

# **DRYER CYCLE PROCESS**

■ Apply Model: 796.8002\*.900 / 796.8027\*.900 / 796.8031\*.900 796.9002\*.900 / 796.9027\*.900 / 796.9031\*.900

			Default	Default Conditions of operation and			ion and t	ermination	
	Cycle		Dry	Dianloy	Drying		Cooling		Wrinkle care
		Temperature	Level	Display Time	Electro- sensor	Temp- Control	Default time	Temp- Control**	Time
	Sanitize	Extra High	(Extra dry)	70 min	Saturation	68±5°C	(5min)	(47±5°C)	
*	Heavy duty	Extra High	(Normal)	54 min	Saturation	68±5°C	(5min)	(47±5°C)	
Dry	Bulky/Bedding	Medium	(Normal)	55 min	Saturation	60±5°C	(5min)	(47±5°C)	00 min
Sensor	Normal	Medium	(Normal)	41 min	Saturation	60±5°C	(5min)	(47±5°C)	90 min
	Casual	LOW	(Normal)	36 min	Saturation	55±5°C	(5min)	(47±5°C)	
	Delicates	LOW	(Normal)	32 min	Saturation	55±5°C	(5min)	(38±5°C)	
	Small Load	Extra High	(Normal)	30 min	Saturation	68±5°C	(5min)	(47±5°C)	
ار ار	Express Dry	Extra High	_	33 min	Saturation	68±5°C	(5min)	(47±5°C)	
Manual Dry **	Touch Up	Mid High	_	25 min	Saturation	66±5°C	(5min)	(47±5°C)	90 min
Mar	Air Dry***	_	_	30 min	Saturation	No Heater	NA	NA	
	Rack Dry***	Mid Low, Low	_	50 min	Saturation	No Heater	NA	NA	
			Motor						Off Time: 6min
									On Time: 10sec
	Load	Load		Tempera:	ture Cont	rol for ea	ach cycle		

<sup>\*</sup> Sensor dry : "Dry Level" is set by users.

<sup>\*\*</sup> Manual dry: "Temperature control" is set by users. Default settings can be adjusted by users.

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# **COMPONENT TESTING INFORMATION**

## **A** CAUTION

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

Component	Test Procedure	Check result	Remark
1. Thermal cut off	Measure resistance of terminal to terminal	If thermal fuse is open must be replaced	Heater case- Safety
	① Open at 284 ± 12°F (140 ± 7°C)	① Resistance value ≒ ∞	Electric type
Check Top Marking:     N130	② Auto reset -31°F (-35°C) Same shape as Outlet Thermostat.	② Continuity (250°F $\downarrow$ ) < 1 $\Omega$	
Hi limit Thermostat     (Auto reset)	Measure resistance of terminal to terminal		Heater case -     Hi limit
	① Open at 257 ± 9°F (125 ± 5°C)	① Resistance value ≒ ∞	Electric type
	② Close at 221 ± 9°F (105 ± 5°C)	② Resistance value < 5Ω	
3. Outlet Thermostat ( Auto reset)	Measure resistance of terminal to terminal		Blow housing - Safety
	① Open at 185 ± 9°F (85 ± 5°C)	① Resistance value ≒ ∞	Electric type
• Check Top Marking :	② Close at 149 ± 9°F (65 ± 5°C)	② Resistance value < 5Ω	
N85	Same shape as Thermal cut off.		
4. Lamp holder	Measure resistance of terminal to terminal	Resistance value : $80\Omega \sim 100\Omega$	
5. Door switch	Measure resistance of the following terminal		The state that Knob is
	1) Door switch knob: open ① Terminal: "COM" - "NC" (1-3) ② Terminal: "COM" - "NO" (1-2) 2) Door switch push: push ① Terminal: "COM" - "NC" (1-3) ② Terminal: "COM" - "NO" (1-2)	① Resistance value $< 1\Omega$ ② Resistance value $= \infty$ ① Resistance value $= \infty$ ② Resistance value $< 1\Omega$	pressed is opposite to Open condition.
6. Idler switch	Measure resistance of the following terminal: "COM - NC"	<ol> <li>lever open</li> <li>Resistance value &lt; 1Ω</li> <li>Lever push (close)</li> <li>Resistance value ≒ ∞</li> </ol>	

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

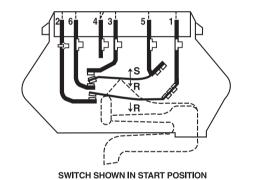
Component	Test Procedure	Check result	Remark
13. Hi-limit Thermostat (Auto reset)	Measure resistance of terminal to terminal		Gas type     Gas funnel-
	① Open at 203 ± 7°F (95 ± 5°C) ② Close at 158 ± 9°F (70 ± 5°C)	<ol> <li>Resistance value ≒ ∞</li> <li>Continuity &lt; 1Ω</li> </ol>	Hi-limit
Check Top Marking:     N95			
13. Thermal Cut off (Manual reset)	Measure resistance of terminal to terminal	If thermal fuse is open must be replaced	Gas type     Gas funnel-
<b>65 10</b>	① Open at 230 ± 12°F (110 ± 7°C)	① Resistance value ≒ ∞	Safety
# # # #	② Manual reset	② Continuity < 1Ω	
Check Top Marking:     N110			

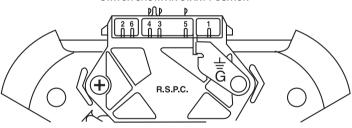
# **MOTOR DIAGRAM AND SCHEMATIC**

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

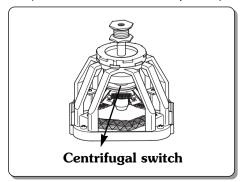
■ Contact On / Off by Centrifugal Switch

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

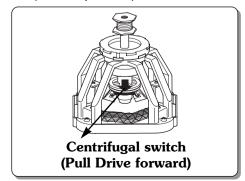




■ STOP MODE (When Motor does not operate)



■ RUN MODE (Motor operates)

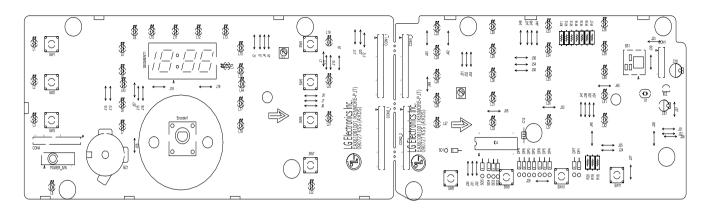


---- Open --- Close

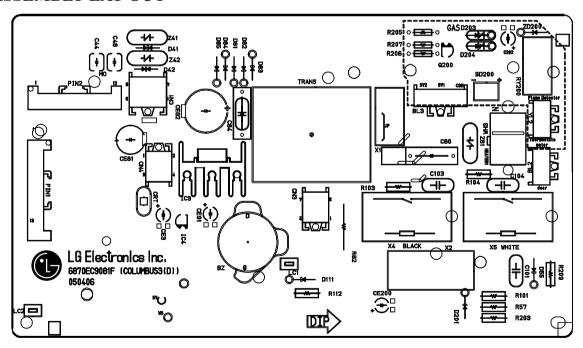


# **CONROL LAY - OUT**

#### PWB ASSEMBLY DISPLAY LAY-OUT



#### PWB ASSEMBLY LAY-OUT



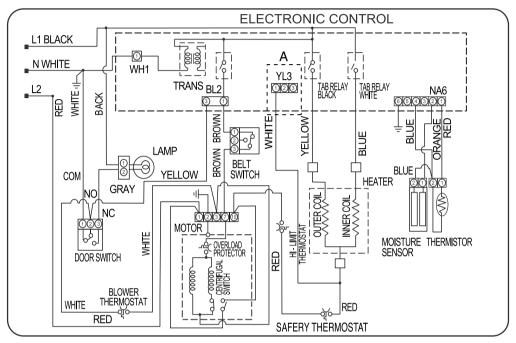
## **WIRING DIAGRAM**

## **A** CAUTION

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

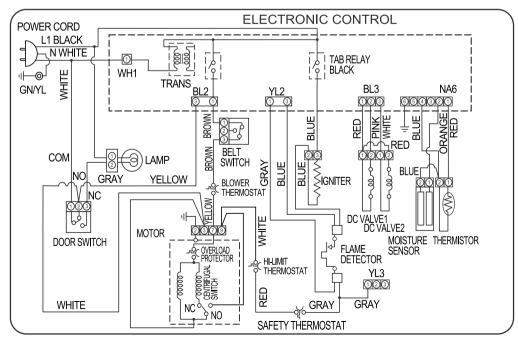
#### ELECTRIC DRYER WIRING DIAGRAM

■ Apply Model: 796.8002\*.900 / 796.8027\*.900 / 796.8031\*.900



#### GAS DRYER WIRING DIAGRAM

Apply Model: 796.9002\*.900 / 796.9027\*.900 / 796.9031\*.900



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## 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.

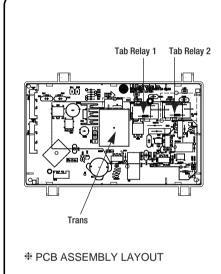
Pressing the START/PAUSE button	CHECKING ACTION	DISPLAY	CHECKING POINT	REMARK
	Electric control	LQC TEST	Won't power up Detective LED or LCD	See test 1 Display: See page
None	Temperature	LQC TEST	Thermistor open	See test 2
	sensor	LQC TEST	Thermistor close	000 1031 2
			Motor runs	See test 3
Once	Motor	70 ~ 255 Measured Moisture Value.	Displays Moisture Sensor Operation: If moisture sensor is contacted with damp cloth. The display number is below 180, in normal condition.	See test 4
Twice	■ ELECTRIC TYPE  Motor + Heater 1 (2700W) ■ GAS TYPE  Motor + Valve	Current Temp.	■ ELECTRIC TYPE: Heater runs ■ GAS TYPE: GAS Valve runs (Display the Temperature of Inside drum.)	Gas valve See test 7
3 times	■ ELECTRIC TYPE  Motor + Heater 1  +Heater 2 (5400W)  ■ GAS TYPE  Motor + Valve	Current Temp. (5 ~ 70)		
4 times	Motor, Heater	50~255 Measured "SE"(Error Display)	Motor, Heater Off Semi-conductor	See test 8
5 times	Control Off	, , , , , ,		Auto Off
During check,	Motor & Heater Off + Lamp On +	"dE" or "Error" (THE DOOR IS OPEN.PLEASE	Door switch	See test 6
If the door is open.	Buzzer beeps seven times	CLOSE THE DOOR COMPLETELY)	Lamp	
During check, If the door is closed.	Motor on & Heater Off + Lamp Off	70 ~ 255	<ul> <li>Press Start button 1 time and then open the door. Proceed again with the step 1 (by pressing start 1 time), step 2 (by pressing start 2 times), step 3 (by pressing start 3 times) and step 4 (by pressing start 4 times) in sequence.</li> <li>Press Start 2 times and then open the door. Proceed again from the step 1 all the way to the step 4.</li> <li>Press Start 3 times and then open the door Proceed with the step 1 and skip the step 2 and press step 3 twice and finish with step 4 by making sure the all the electric devices shut off in the end.</li> </ul>	

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

**NOTE:** To properly check power supply in case of floating neutral or high resistance connections, a load must be applied to the circuit. It is important that the power button be pressed while checking the voltages as described below. With the dryer plugged in, press the POWER button to turn on dryer. 🖵 YES 🖵 Replace Check the voltage at the main PCB BK tab WH1 main PCB. between WH1-1 (WH) and the black Replace wire on the black tab relay. Is 120 YES VAC present while pressing the start display PCB. button? ]NO 🗀 (NOTE: For gas dryers skip this step.) Check With the dryer plugged in, check the power cord. voltage at the terminal block between •Check the neutral (WH) and L1 (BK) terminal terminals. Is the voltage 120 VAC block NO while pressing the START/PAUSE N (White) connection button? L (Black) L (Red) S. eg yes egCheck the With the dryer plugged in, check the power voltage at the power cord plug supply fuse between the neutral and L1 (and L2 or circuit for electric dryers). Is the voltage 120 NO breaker. VAC while pressing the Check the START/PAUSE button? receptacle YES connections. Replace the power cord.

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)

	Та	T a			R
High Mid High Medium	on	on	on	on	Temperature Control below 68±4°C. Turn on Heater1 and Heater2.
Low Extra Low	on	off	on	off	Temperature Control below 52±4°C. Only Turn on Heater1.

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

	T a	В	R
High Mid High Medium	0	0	Temperature Control below 70±4°C. Turn on Burner
Low Extra Low	0	0	Temperature Control below 47±4°C. Turn on Burner

#### 2. Status Mode Of The Connection

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

	Oalar	Connection	Domonik
	Color	Harness PC	CB Remark
Connector Housing	Black	Yellow Wire  Black Wire  Connector Housing  Tap r	Check the Matching color Between Harness wire and Tab Relay. (Black Housing – Black Tab Relay)
	White	Blue Wire  Black Wire  Connector Housing  Tap r	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	РСВ	Remark
Connector Housing	Black	Blue Wire  Black Wire  Connector Housing	Tap relay 1	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

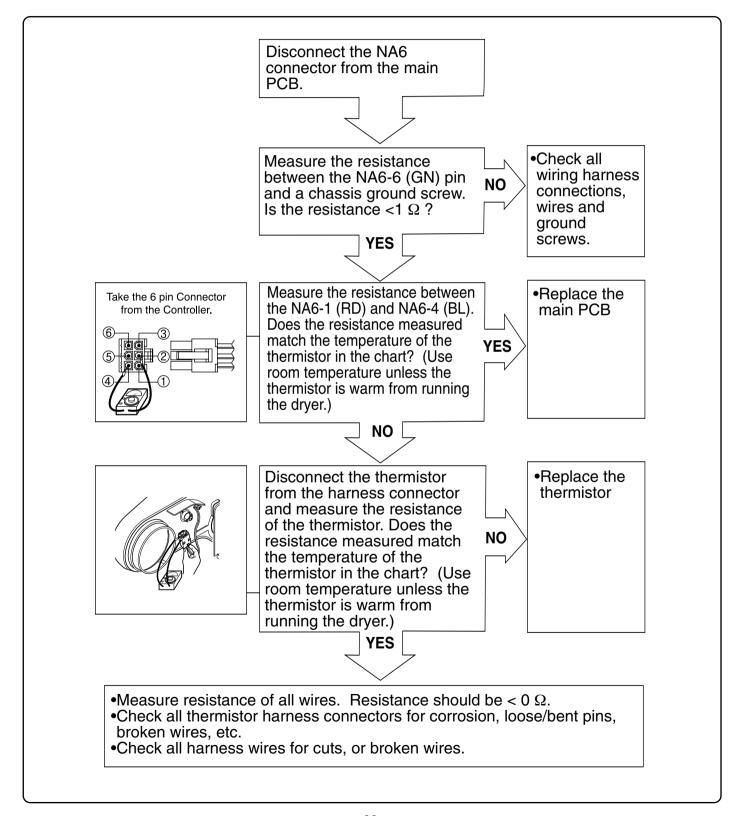
#### < Table2 > : Wrong Connection of the Tab Relay and Connector Housing (Gas)

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

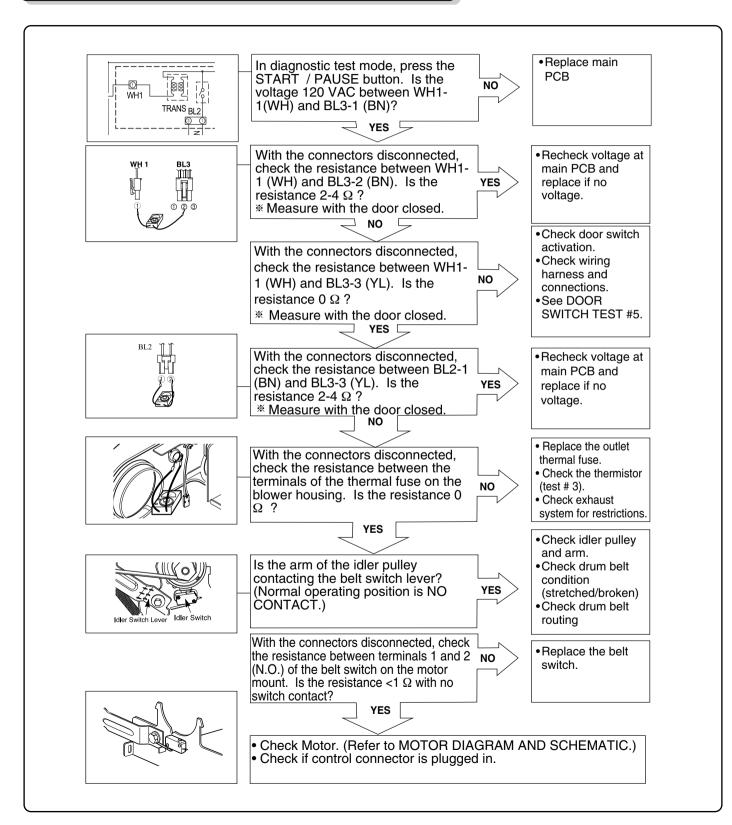
## **A** CAUTION

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

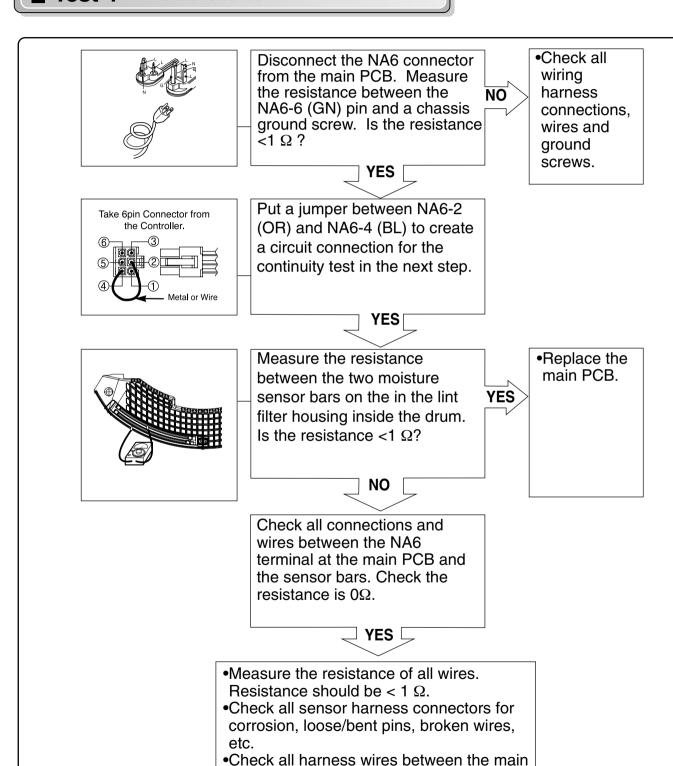
#### **■ Test 2** Thermistor Test---Measure with Power Off



#### ■ Test 3 Motor test



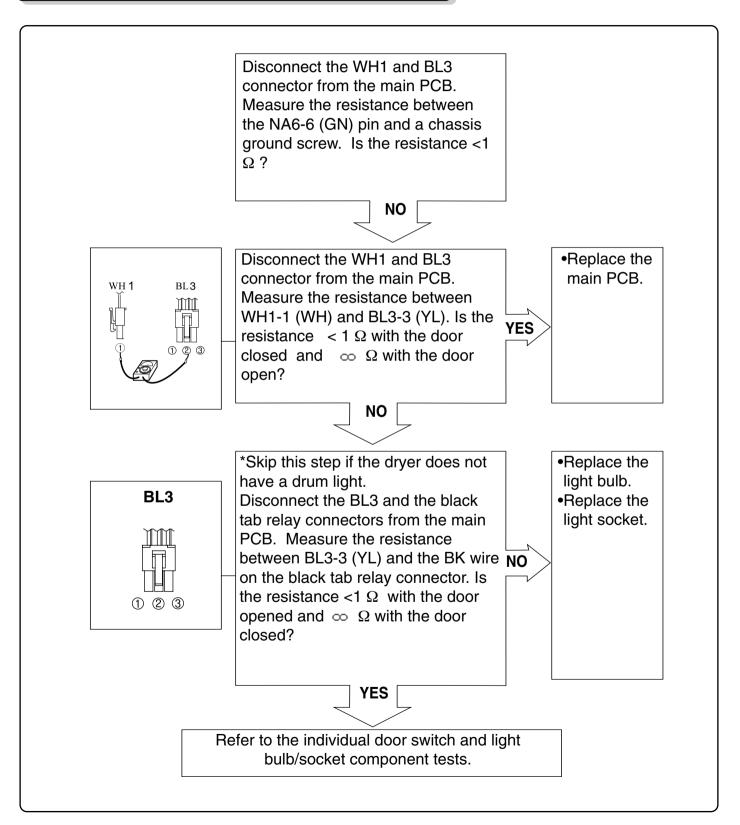
#### **■ Test 4** Moisture sensor



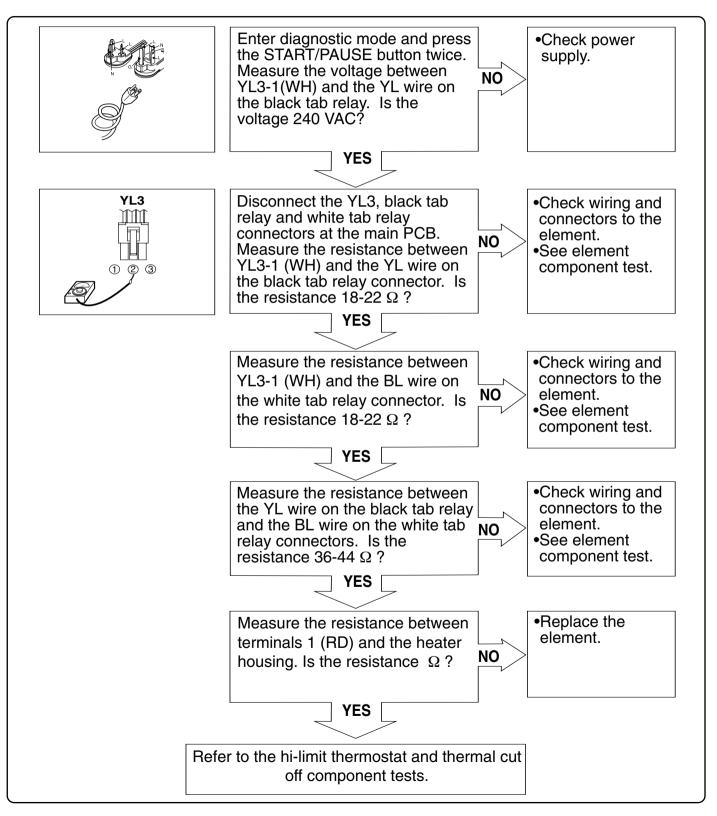
PCB and the sensor for cuts, or broken

wires.

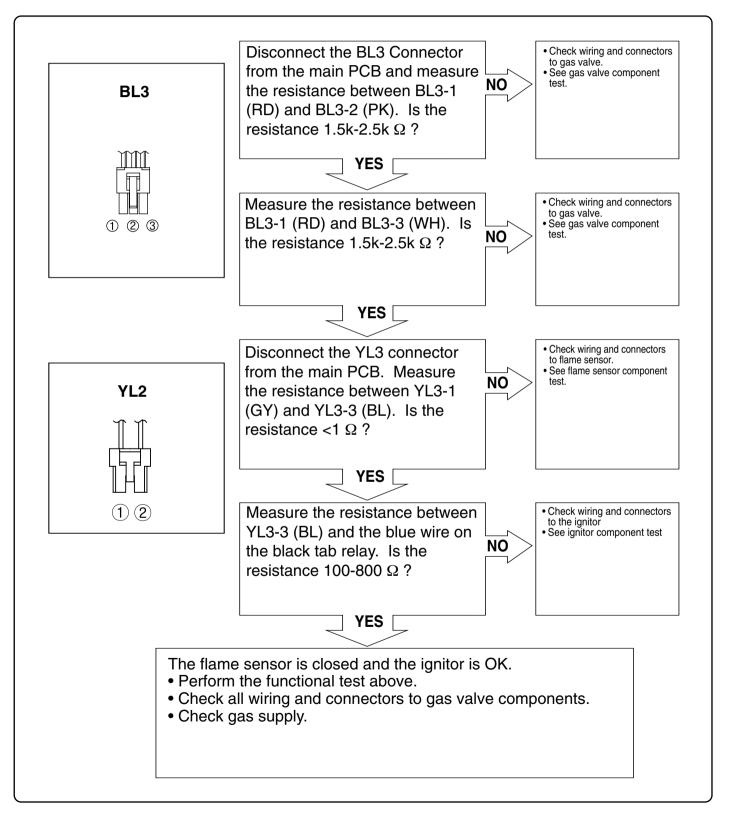
#### **■ Test 5** Door switch test



## **■ Test 6** Heater switch test - Electric Type



#### **■ Test 7** GAS Valve test - Gas Type



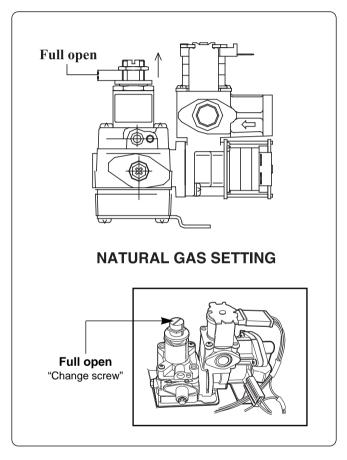
## **CHANGE GAS SETTING (NATURAL GAS, PROPANE GAS)**

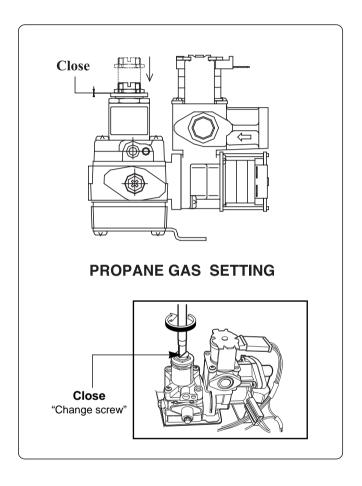
#### **A** Warning

After Natural Gas Setting, applying Propane Gas Orifice or wrong use of Natural Gas Orifice will result in fire. Conversion must be made by a qualified technician.

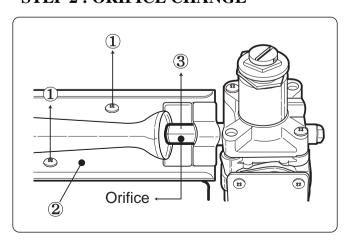
**Initially**, Natural Gas mode is set. Propane Gas Orifice is on sale as a Service Part to authorized servicers only.

#### **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.

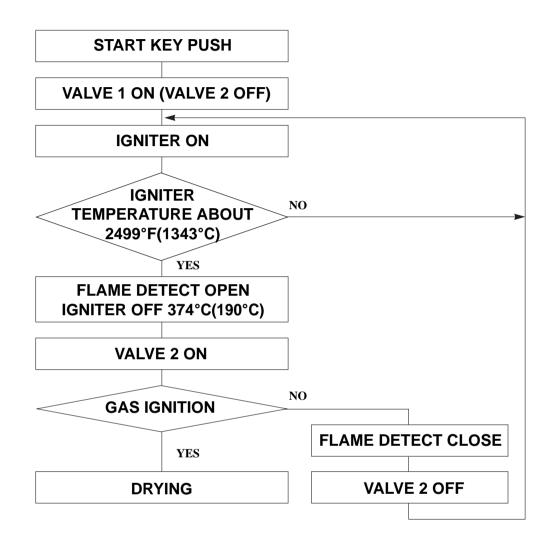
Gas type	Orifice P/No	Marking	Shape
Natural Gas	4948EL4001B	NCU	
Propane Gas	4948EL4002B	PCU	

Kit contents: Orifice (Dia. = 1.613mm, for Propane Gas)

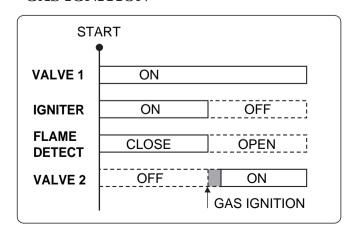
: Replace Label

: Instruction sheet

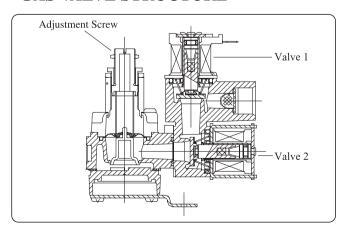
#### **■** GAS VALVE FLOW



#### **GAS IGNITION**



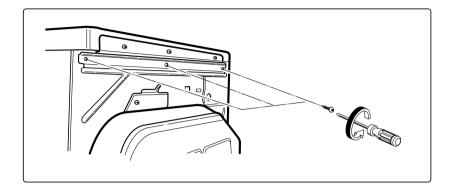
#### GAS VALVE STRUCTURE



## **DISASSEMBLY INSTRUCTIONS**

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

#### **TOP PLATE**

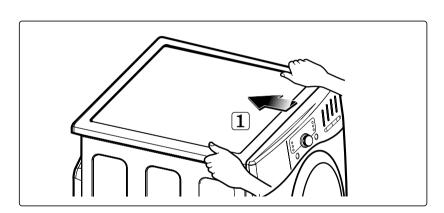


#### **AWARNING**

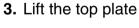
When you disassemble the control panel, besure to take gloves and careful panel frame's edge. Failure to do so can cause serious injury.

1. Remove 3 screws on the upper plate.

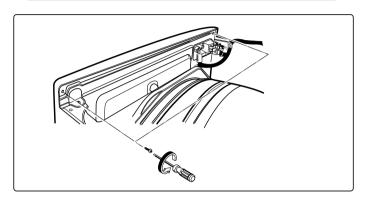
2. Push the top plate back ward.







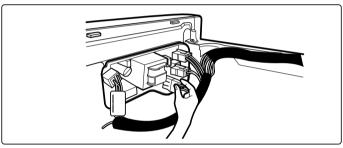
#### **CONTROL PANEL ASSEMBLY**



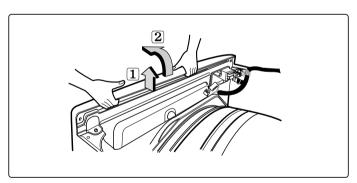
#### **AWARNING!**

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

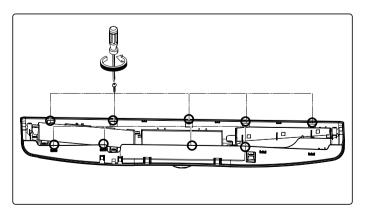
**1.** Remove 2 screws on the control panel frame.



2. Disconnect the connectors.

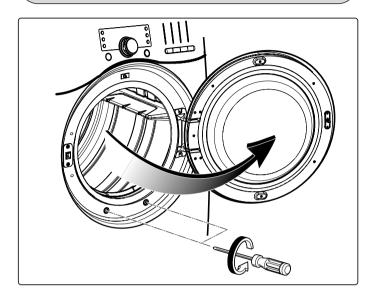


**3.** Pull the control panel assembly upward and then forward.

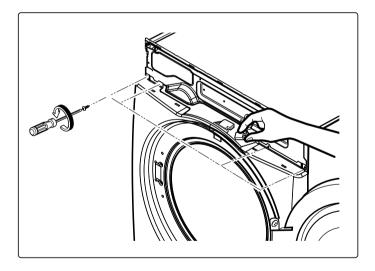


- **4.** Remove 9 screws on the PWB PCB)assembly, display.
- **5.** Remove 4 screws on the PWB(PCB)assembly, main.
- **6.** Disassemble the control panel assembly.

#### **COVER CABINET**

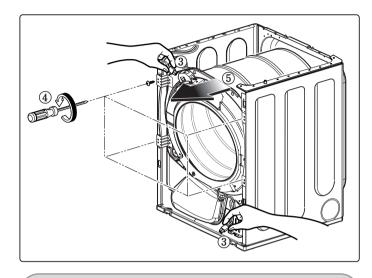


- **1.** Disassemble the top plate.
- 2. Disassemble the control panel assembly.
- **3.** Disassemble the door assembly.
- 4. Remove 2 screws.



- **5.** Remove 4 screws from the top of cabinet cover.
- **6.** Disconnect the harness of door switch.

#### **TUB DRUM [FRONT]**

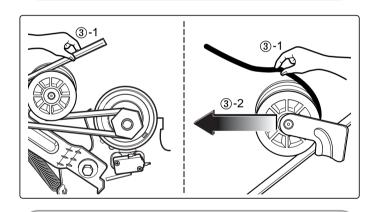


#### A WARNING!

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

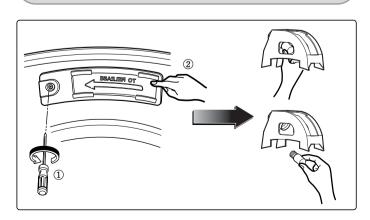
- 1. Open the top plate.
- 2. Remove Cover Cabinet.
- **3.** Disconnect the door lamp and electro sensor connector.
- 4. Remove 4 screws.
- **5.** Disassemble the Tub Drum [Front].

#### **DRUM ASSEMBLY**



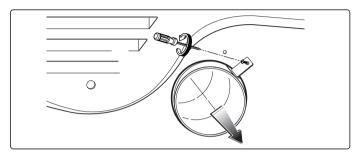
- 1. Open the top plate.
- **2.** Remove the Cover Cabinet and Tub drum [front].
- 3. Disengage belt from motor and idler pulleys.
- **4.** Carefully remove Drum out through front of dryer.

#### CHANGING THE DRUM LAMP



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

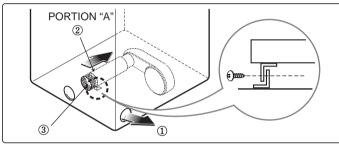
#### **DRYER EXHAUST CHANGE**



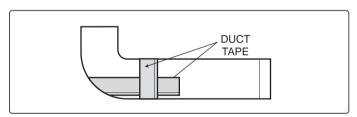
## **A** WARNING!

When you disassemble and install ventilation, be sure to take gloves and careful exhaust edge. Failure to do so can cause serious injury.

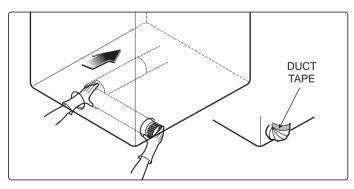
1. Remove screw & exhaust duct.



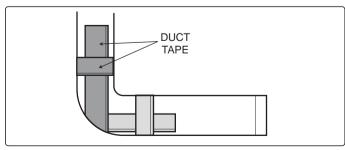
**2.** Detach and remove the bottom, left or right side knockout as desired.



**3.** Reconnect the new duct[11 in(28cm)] to the blower housing, and attach the duct to the base.

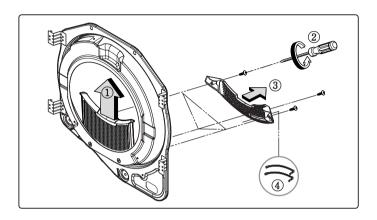


**4.** Pre-assemble 4" elbow with 4" duct. Wrap duct tape around joint.



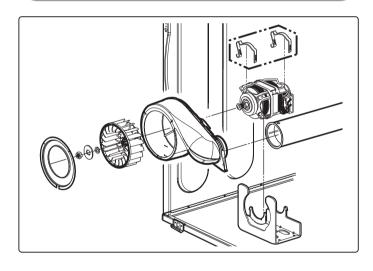
Insert duct assembly, elbow first, through the side opening and connect the elbow to the dryer internal duct.

#### FILTER ASSEMBLY



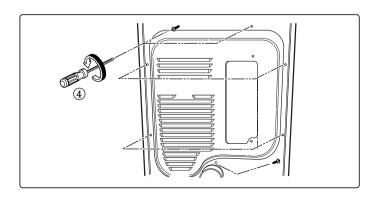
- **1.** Remove the filter.
- 2. Remove 3 screws.
- **3.** Pull the grill.
- **4.** Disconnect electro sensor.

#### **BLOWER HOUSING**



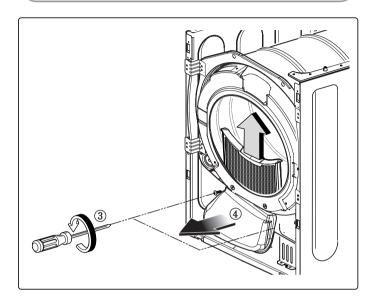
- 1. Open the top plate.
- 2. Remove the Cover Cabinet and Tub Drum [Front].
- **3.** Remove the Drum assembly.
- 4. Remove 2 screws and cover(Air guide).
- **5.** Remove the bolt and washer.
- **6.** Pull the fan.
- **7.** Disconnect the motor clamp and motor.

#### **BACK COVER**



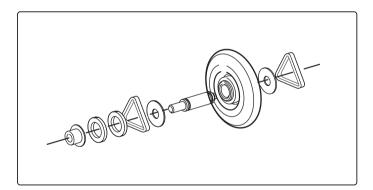
- 1. Open the top plate.
- 2. Remove the Cover Cabinet and Tub Drum [Front].
- **3.** Remove the Drum assembly.
- 4. Remove 7 screws.
- 5. Pull the Tub Drum [Rear] towards the front.

#### **AIR DUCT**



- 1. Open the top plate.
- 2. Remove the Cover Cabinet.
- **3.** Remove filter and 2 screws.
- **4.** Pull the air duct towards the front.

#### **ROLLERS**

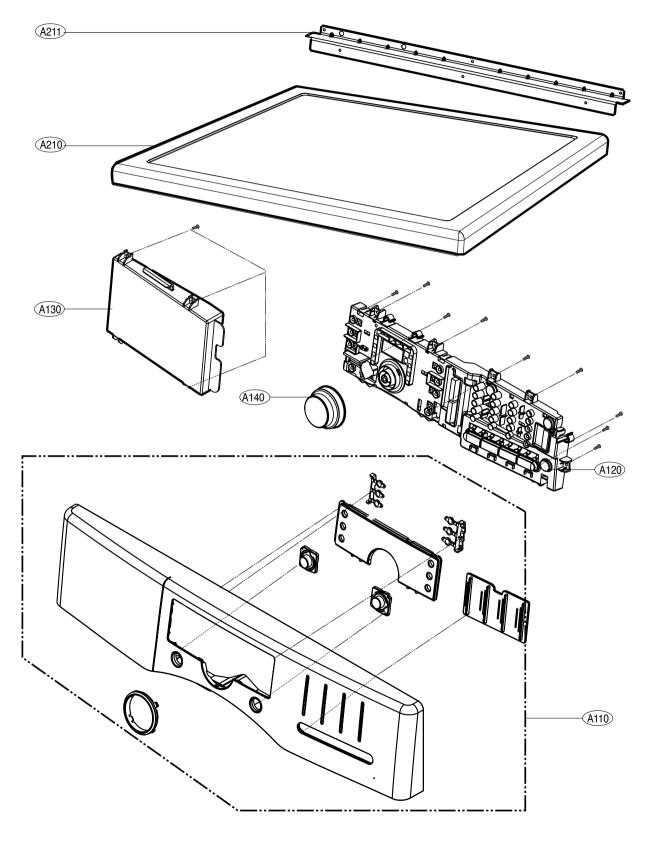


- 1. Open the top plate.
- 2. Remove the Cover Cabinet and Tub Drum [Front].
- **3.** Remove the Drum assembly and Tub Drum [Rear].
- **4.** Disconnect Air duct from the Tub Drum [Front].
- **5.** Remove the roller from the Tub Drum [Front] and Tub Drum [Rear].

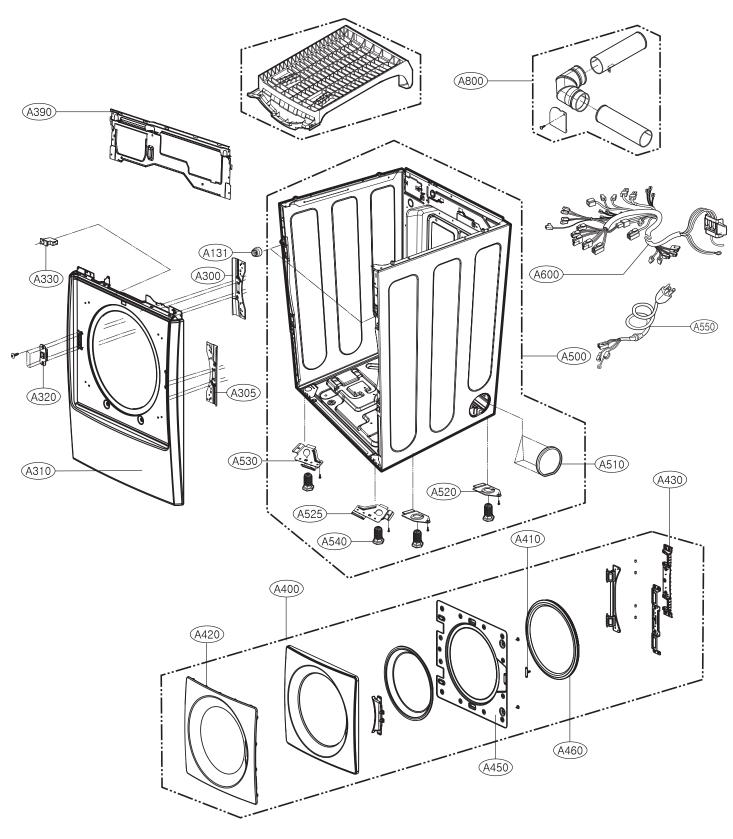
# **12**

# **EXPLODED VIEW**

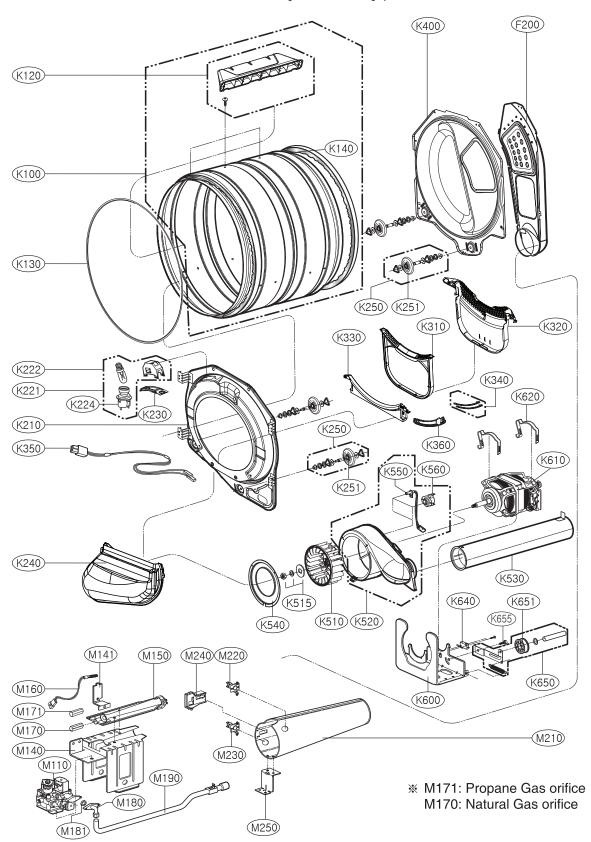
## 12-1. Control Panel & Plate Assembly



13-3-2. Cabinet & Door Assembly: Gas type



13-4-2. Drum & Motor Assembly: Gas type



## 12-3-1. Drum & Motor Assembly : Electric Type

