

# HEAT PUMP DRYER SERVICE MANUAL

## CAUTION

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

MODEL : DLHC 1455V  
DLHC 1455W

## IMPORTANT SAFETY NOTICE

The information in this service manual 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.

To reduce the risk of injury to persons, follow 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, injury to persons or death.



### 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.

## 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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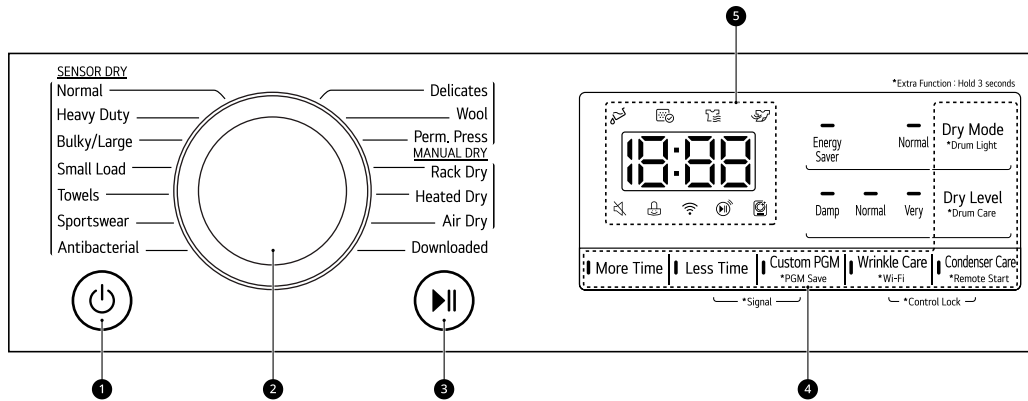
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## SPECIFICATIONS

ITEMS	DLHC 1455V / DLHC 1455W	REMARK
DRYING TYPE	Condensation(Heatpump)	
WEIGHT	58kg	
DIMENSION	24" x 26 3/8" x 33 1/2", 45 1/4" (Depth with door open)	
STANDARD DRYING CAPACITY	4.2cu.ft	
CONTROL TYPE	Electronic Control	
POWER SUPPLY	240V / 60Hz	
MOTOR	115W	
COMPRESSOR	750W (60rps)	
LED LAMP	DC12V (30mA)	
DOOR SWITCH	250V(5A)	
DRUM VOLUME	4.2cu.ft	
SAFETY DEVICES	Inverter Software Protection Control	
SENSOR	Micom electronic Control	
	1. Pipe Temperature Thermistors (Compressor out)	
	2. Drum Temperature:1 thermistor	
	3. Humidity : Electrode sensor	
	4. Sump water Sensing : Electrode sensor	
FILTER	Removable	
DRUM SPEED	52~53 rpm	
DRUM	Stainless steel	
DRYER RACK	Available	
Control Lock		
Signal		
Wrinkle Care		Default: Off
Custom PGM		Default : Off
More Time		Maximum : 205 min
Less Time		Minimum : 30 min
DRUM INTERIOR LIGHT		
DRUM CARE		
CONDENSER CARE		
DISPLAY	Running status indicator (all)	
	Error display (all)	

## Control Panel

### Control Panel Features



#### 1 Power Button

- Press the button to turn the appliance on. Press again to turn the appliance off.

#### NOTE

- Pressing the **Power** button during a cycle will cancel that cycle and any load settings will be lost.

#### 2 Cycle Selector Knob

- Turn this knob to select the desired cycle. Once the desired cycle has been selected, the standard presets will be shown in the display. On Manual Dry cycles, these settings can be adjusted using the cycle modifier buttons anytime before starting the cycle.

#### 3 Start/Pause Button

- Press this button to start the selected cycle. If the appliance is running, use this button to pause the cycle without losing the current settings.

#### NOTE

- If you do not press the **Start/Pause** button to resume a cycle within a certain time, the appliance turns off automatically and all cycle settings are lost.

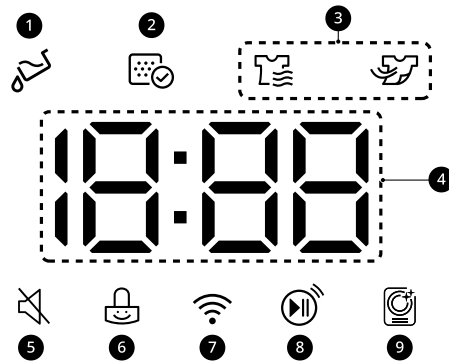
#### 4 Extra Options and Functions / Cycle Modifier Buttons

- Use these buttons to select the desired options for the selected cycle. Not all options are available for each cycle.
- **Remote Start**
  - With the **LG ThinQ** app, you can use a smartphone to control your appliance remotely.
- **Wi-Fi**
  - Press and hold the **Wrinkle Care** button for 3 seconds to initiate the connection of the appliance to the **LG ThinQ** application.


#### 5 Time and Status Display

- The display shows the settings, estimated time remaining, options, and status messages for the appliance. When the appliance is turned on, the default settings in the display will illuminate.


## Time and Status Display






### 1 Water Full Indicator

-  lights up at the beginning of a cycle to remind you to empty the water container before drying. It also lights up when the water container is full and needs to be emptied.

### 2 Lint Filter Status Indicator


-  lights up at the beginning of the cycle to remind you to check the lint filter. It also lights up if the lint filter needs to be cleaned or is missing.
  - If the lint filter is not inserted, the icon will light up and the appliance will not operate.


### 3 Cycle Status Indicators


-  lights up when the appliance is in the drying stage.
-  lights up when the appliance is in the cool down stage. After  lights up, the appliance can operate for up to 20 minutes.


### 4 Estimated Time Remaining

- When a drying cycle is selected, the estimated drying time for the selected cycle is displayed. This time will change if you select extra options for the cycle.
- The cycle time on Sensor Dry cycles may fluctuate as the appliance recalculates drying time for optimal results.

5  lights up when the button and end-of-cycle sounds are turned off.

6  lights up when the control panel is locked.

7  lights up when the appliance is connected to Wi-Fi network at home.

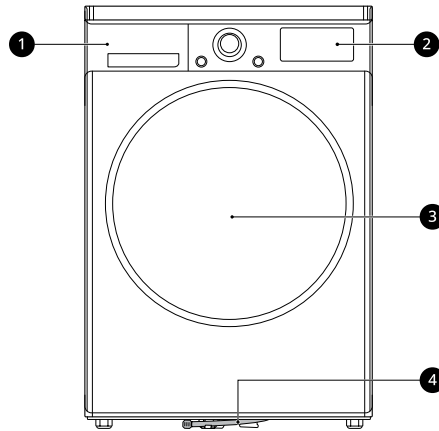
8  lights up when the remote control feature is activated.

9  lights up while the **Drum Care** function is operating.

## Product Features

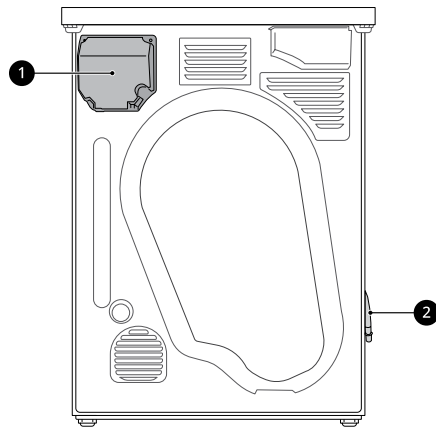
The images in this guide may be different from the actual components and accessories, which are subject to change by the manufacturer without prior notice for product improvement purpose.

### Front View



- ❶ Water Container
- ❷ Control Panel
- ❸ Door
- ❹ Drain Tube

### Rear View



- ❶ Terminal Block Access Panel
- ❷ External drainage of condensed water

## Product Specifications

The appearance and specifications listed in this manual may vary due to constant product improvements.

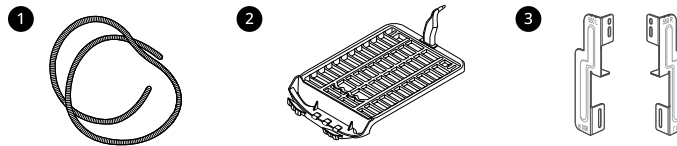
**Electrical requirements:** Please refer to the rating label for detailed information.

Model		DLHC1455*
Description		Heat Pump Electric Dryer
Dimensions (Width × Depth × Height)		24" x 263/8" x 33 1/2", 45 1/4" (Depth with door open) 60 cm x 67 cm x 85 cm, 115 cm (Depth with door open)
Net Weight		127.9 lb (58 kg)
Drying Capacity	<b>Normal Cycle</b>	IEC 4.2 cu.ft (19.8 lb/9 kg)

### NOTE

- Model numbers can be found on the cabinet inside the door.

## Accessories



- ① Drain hose
- ② Drying rack (sold separately)
- ③ Stacking kit

### NOTE

- For your safety and extended product life, use only authorized components. The manufacturer is not responsible for product malfunction or accidents caused by the use of unauthorized components or parts.

## Options and Extra Functions

Your dryer includes several additional cycle options to customize cycles to meet your individual needs.

Select the desired option after selecting the desired cycle and settings.

### NOTE

- The LED for the option will light when the option is selected.
- To protect your garments, not every option is available with every cycle.
- A chime will sound twice and the LED will not light if the selected option is not allowed for the selected cycle.

### Dry Level

Use this option to select the dryness level for the cycle. Press the **Dry Level** button repeatedly to scroll through available settings.

### NOTE

- This option is only available with **Sensor Dry** cycles.
- The appliance will automatically adjust the cycle time according to the selected dryness level. Selecting **Very** will increase the cycle time, while **Damp** will decrease the cycle time.
- Use the **Damp** setting for items that you wish to iron.

### More Time / Less Time

It allows you to increase or decrease drying time in 1 minute increments when you use manual drying cycles such as **Rack Dry**, **Heated Dry** and **Air Dry**.

### Wrinkle Care

Selecting this option will tumble the load periodically for up to 2 hours after the selected cycle, or until the door is opened. This is helpful in preventing wrinkles when you are unable to remove items from the dryer immediately.


Press the **Wrinkle Care** button before you start a drying cycle.

### NOTE

- When the option is set, a rectangle with a dashed line and **END** appears on the display until the feature is off.
- When the option is set, only the **Power** button works after the drying cycle is end.
- When a drying cycle is running, pause the cycle first to set the option.
- Always turn off the appliance before unloading the clothes.

### Signal On/Off

The appliance plays a melody when the drying cycle is finished. The button makes a sound each time a button is pressed. Use this button to turn the melody and button tones on or off.

- To turn on/off, press and hold the **Less Time** and **Custom PGM** button at the same time.
- When this function is turned on,  lights up on the display.

### Drum Light

The drum is equipped with a light that illuminates when the appliance is turned on. The light automatically turns off when the dryer door is closed and the cycles starts.

To turn on the light during a cycle, press and hold the **Dry Mode** button for 3 seconds. The drum light will illuminate and then turn off automatically after 4 minutes.

### Custom PGM

Save special combinations of settings that are used frequently as a custom program.

### Saving a Custom Program

- 1 Turn on the appliance and select the desired settings using the cycle selector knob and cycle modifier or option buttons.
- 2 Press and hold the **Custom PGM** button for 3 seconds.

### NOTE

- Only one custom program can be saved at a time. Pressing and holding the **Custom PGM**

button will overwrite any previously saved custom program.

## Recalling a Custom Program

Custom PGM

- 1 Turn on the appliance and press button.
- 2 Press the **Start/Pause** button to start the cycle.

## Rack Dry(Optional)

Use this function with items, such as wool sweaters, silk items, and lingerie, that should be dried flat. The function can also be used with items that should not be tumbled dry, such as gym shoes or stuffed animals.

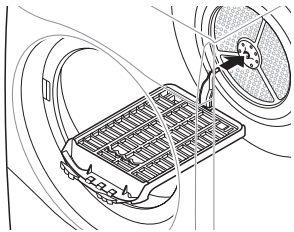
### ⚠ CAUTION

- NEVER tumble dry a load of clothing with the rack installed.

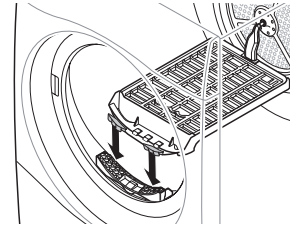
### NOTE

- When the rack is installed, the drum will rotate as usual, but the rack will not move. Make sure all articles to be dried remain completely on the rack and cannot fall off or be pulled off by the turning drum. Be sure to remove the rack after use.
- Some models are not sold with all of the available accessories, you may need to purchase the dryer rack first if it was not provided with your model. Please contact LG Electronics Customer Information Center or visit the LG Website at <http://www.lg.com> for purchase.

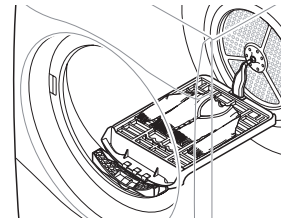
- 1 With the door open, slide the rack into the drum and insert the hook of dryer rack to the drum center.



- 2 Make sure it is seated evenly on the edge of the inner door rim and resting flat on the inside of the appliance.



- 3 Place wet items on the rack. Allow space around the items for air to circulate.



- 4 Close the door and select **Rack Dry**.
- 5 Adjust drying time by pressing the **More Time** and **Less Time** button.
- 6 Run the cycle by pressing the **Start/Pause** button.

## Control Lock

Use this function to disable the controls. This function can prevent children from changing cycles or operating the dryer.

### NOTE

- The function does not lock the door.
- Once this function is set, all buttons are locked except the **Power** button.
- When the controls are locked, **i** lights up on the display during the drying cycle.
- Turning off the power will not reset this function. You must deactivate this function before you can access any other options and functions.

## Locking/Unlocking the Control Panel

- 1 Turn on the power.
- 2 Press and hold the **Wrinkle Care** and **Condenser Care** buttons at the same time for 3 seconds to activate or deactivate this function.

## Drying Cycles

Turn the knob or press the button to select the desired cycle. When you select a drying cycle the light for the corresponding drying cycle will turn on.

### Sensor Dry Cycles

Sensor dry cycles utilize LG's unique dual sensor system to detect and compare the moisture level in clothes and in the air and adjust the drying time as needed to ensure superior results. The appliance automatically sets the dryness level and temperature at the recommended setting for each cycle. The estimated time remaining will be shown in the display.

Cycle	Normal	
<b>Description</b>	Use this cycle for drying all normal items such as cotton, linen, shirts, jeans or mixed loads, except delicate fabrics such as wool or silk.	
<b>Dry level</b>	Default : <b>Normal</b>	Available : <b>All</b>
<b>Dry Mode</b>	Default : <b>Energy Saver</b>	Available : <b>All</b>

Cycle	Heavy Duty	
<b>Description</b>	Use this cycle for drying heavy-duty clothes like jeans or garments should be extra dry.	
<b>Dry level</b>	Not adjustable	
<b>Dry Mode</b>	Available : <b>Energy Saver</b>	<b>Available : Energy Saver</b>

Cycle	Bulky/Large	
<b>Description</b>	Use this cycle for drying blankets or bulky items such as pillows, blankets, comforters, sheets or pet bedding.	
<b>Dry level</b>	Not adjustable	
<b>Dry Mode</b>	Default : <b>Normal</b>	Available : <b>Normal</b>

Cycle	Small Load	
<b>Description</b>	Use this cycle for drying light and small clothes less than 3 items.	
<b>Dry level</b>	Not adjustable	
<b>Dry Mode</b>	Default : <b>Normal</b>	Available : <b>Normal</b>

Cycle	Towels	
<b>Description</b>	Use this cycle for drying towels, shirts, jeans and mixed loads.	
<b>Dry level</b>	Not adjustable	
<b>Dry Mode</b>	Default : <b>Energy Saver</b>	Available : <b>Energy Saver</b>

Cycle	Sportswear	
<b>Description</b>	Use this cycle for drying special garments like sports and outdoor wear.	
<b>Dry level</b>	Not adjustable	
<b>Dry Mode</b>	Default : <b>Energy Saver</b>	Available : <b>Energy Saver</b>

Cycle	Antibacterial	
Description	Using this cycle helps to reduce allergens such as house mites.	
Dry level	Not adjustable	
Dry Mode	Default: <b>Normal</b>	Available: <b>Normal</b>

Cycle	Delicates	
Description	Use this cycle for drying dress shirts/blouses, nylons, lingerie, or sheer and lacy clothes which can easily be damaged.	
Dry level	Default: <b>Normal</b>	Available : <b>All</b>
Dry Mode	Default: <b>Normal</b>	Available : <b>Normal</b>

Cycle	Wool	
Description	Use this cycle for drying shrinkable woolen or hand-washable items requiring delicate care.	
Dry level	Not adjustable	
Dry Mode	Default : <b>Energy Saver</b>	Available : <b>Energy Saver</b>

Cycle	Perm. Press	
Description	Use this cycle to minimize wrinkles when drying tablecloths or wrinkle-free clothes.	
Dry Level	Default : <b>Normal</b>	Available : <b>All</b>
Dry Model	Default : <b>Normal</b>	Available : <b>Normal</b>

### Manual Dry Cycles

Use Manual Dry cycles to select a specific amount of drying time and a drying temperature. When a Manual Dry cycle is selected, actual time remaining in your cycle appears on the display. You can change the actual time in the cycle by pressing the **More Time** or **Less Time** buttons.

Cycle	Rack Dry
Description	Use this cycle to dry clothes without tumble action. It is suitable for all fabrics that need refreshing.

Cycle	Heated Dry
Description	Use this cycle to dry clothes that are machine-dryable with tumble action with heated air.

Cycle	Air Dry
Description	Use this cycle to dry all fabrics with tumble action without heat.

### NOTE

- If the load is less than 1 kg, please use the **Heated Dry**. Wool items should be dried using the **Wool** cycle and heat-sensitive fabrics including silk, underwear and lingerie should be dried using the **Delicates** cycle. Please comply with the recommended clothing load when you select your desired cycle. Otherwise, your clothes may be damaged and the drying results will be poor.

## Special Drying Cycles

Cycle	Downloaded
<b>Description</b>	<p>This cycle allows you to download a new and special drying cycle to your appliance with a smartphone.</p> <ul style="list-style-type: none"> <li>Refer to the <b>LG ThinQ</b> smartphone application to see the cycles available for download.</li> </ul>

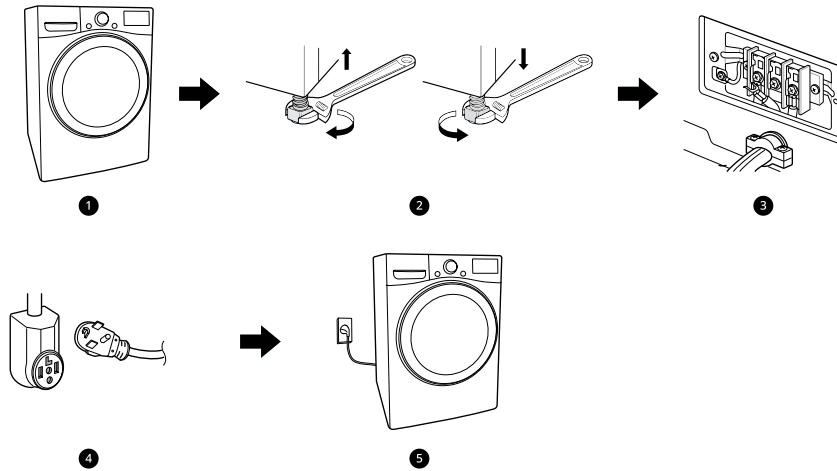
## Selectable Drying Option

Cycle		Dry Mode			Wrinkle Care
Cycle	Dry Level	Off	Energy Saver <sup>†</sup>	Normal	
Normal	Very		●	●	●
	Normal		●	●	●
	Damp		●	●	●
Heavy Duty	-		●		●
Bulky/Large	-			●	●
Small Load	-			●	●
Towels	-		●		●
Sportswear	-		●		●
Antibacterial	-			●	●
Delicates	Very			●	●
	Normal			●	●
	Damp			●	●
Wool	-		●		●
Perm. Press	Very			●	●
	Normal			●	●
	Damp			●	●
Rack Dry	-		●		●
Heated Dry	-		●	●	●
Air Dry	-	●			●

## Before Installing

### Installation Overview

Please read the following installation instructions first after purchasing this dryer or transporting it to another location.



- 1 Choosing the proper location.
- 2 Levelling the appliance.
- 3 Connect the Heat Pump Electric dryer.
- 4 Plug in the power cord.
- 5 Final Installation Check

## Choosing the Proper Location

### ⚠ WARNING

- Read all installation instructions completely before installing and operating the appliance. It is important that you review this entire manual before installing and using the appliance. Detailed instructions concerning electrical connections and additional requirements are provided on the following pages.

### Electricity

Use an individual, grounded electrical outlet located within 2 ft. (61 cm) of either side of the appliance.

### ⚠ WARNING

- Do not install or store the appliance in an area where it will be exposed to water and/or weather.

### NOTE

- Check code requirements that limit, or do not permit, installation of the dryer in garages, mobile homes or sleeping quarters. Contact your local building inspector.

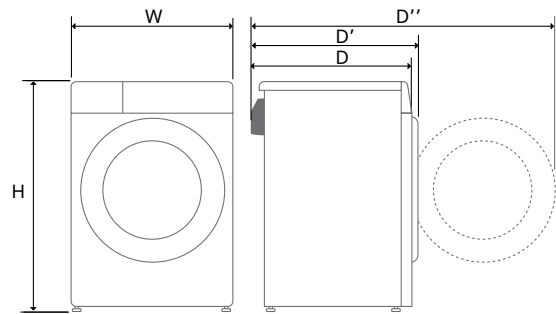
### Flooring

To avoid noise and vibration, the appliance must be installed and leveled on a solidly constructed floor with a maximum slope of 1 inch (2.5 cm). If required, adjust the leveling legs to compensate for the unevenness of the floor.

### NOTE

- A sturdy floor is needed to support the total appliance weight when loaded. The combined weight of a companion appliance should also be considered.
- Clothes may not tumble properly, and automatic sensor cycles may not operate correctly if the appliance is not level.
- Far garage installation, you will need to place the appliance at least 18 inches (45.7 cm) above the floor. The standard pedestal height is 15 inches

(38 cm). You will need 18 inches (45.7 cm) from the garage floor to the bottom of the appliance.



Dimensions	
W	24" (60 cm)
H	33 1/2" (85 cm)
D	25 1/4" (64 cm)
D'	26 3/8" (67 cm)
D''	45 1/4" (115 cm)

### Ambient Temperature

Install the appliance in an area where the temperature is over 45 °F (7 °C).

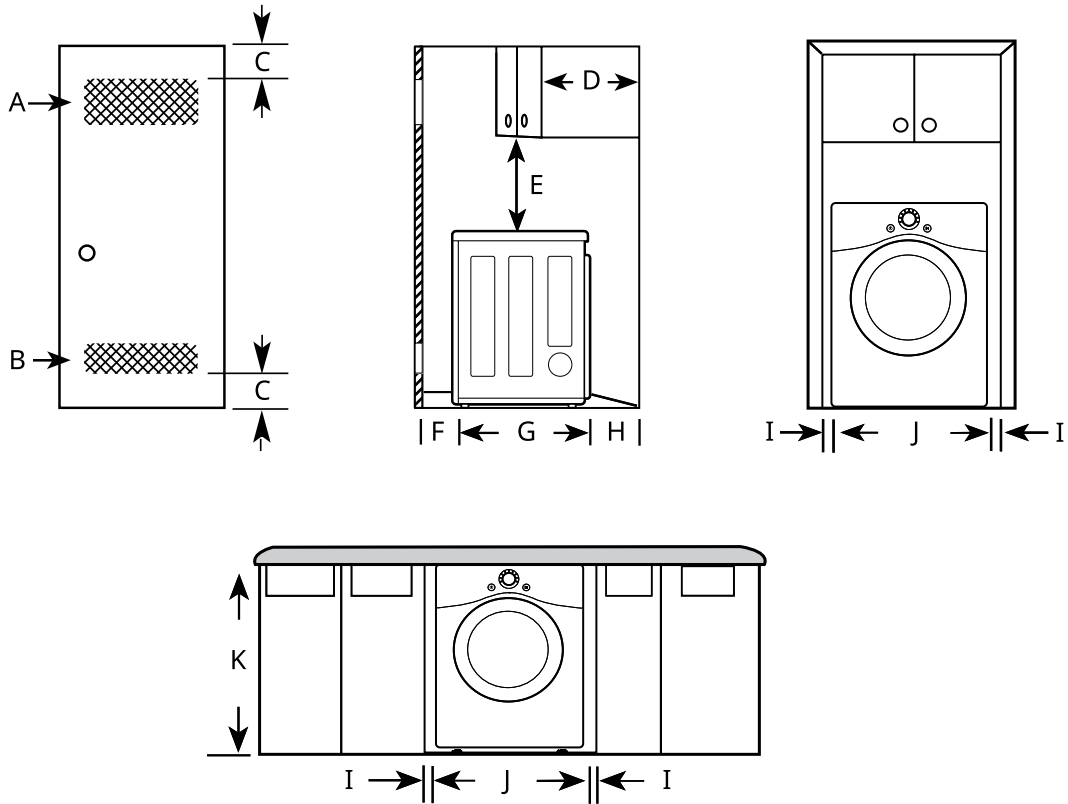
If the temperature around the appliance is too low, the appliance might not shut off at the end of an automatic cycle. This can result in longer drying times.

## Dimensions and Clearances

The following clearances are recommended for the appliance.

- Additional clearances should be considered for ease of installation and servicing.
- Additional clearances should be considered on all sides of the dryer to reduce noise transfer.

## Installation spacing for Recessed Area or Closet Installation



-	Description	Dimension/Clearance
A	Upper Ventilation Opening	≥ 48 sq. in. (310 cm <sup>2</sup> )
B	Lower Ventilation Opening	≥ 24 sq. in. (155 cm <sup>2</sup> )
C	Distance to Ventilation Opening	≥ 3" (76 mm)
D	Overhead Cabinet Depth	≤ 14" (356 mm)
E	Distance to the Overhead Cabinet/Shelf	≥ 18" (457 mm)
F	Front Clearance	1" (25 mm)
G	Depth	26 3/8" (670 mm)
H	Back Clearance	≥ 5" (127 mm)
I	Side Clearance	≥ 1" (25 mm)
J	Width	24" (600 mm)
K	Height of Cabinet Opening	33 1/2" (850 mm)

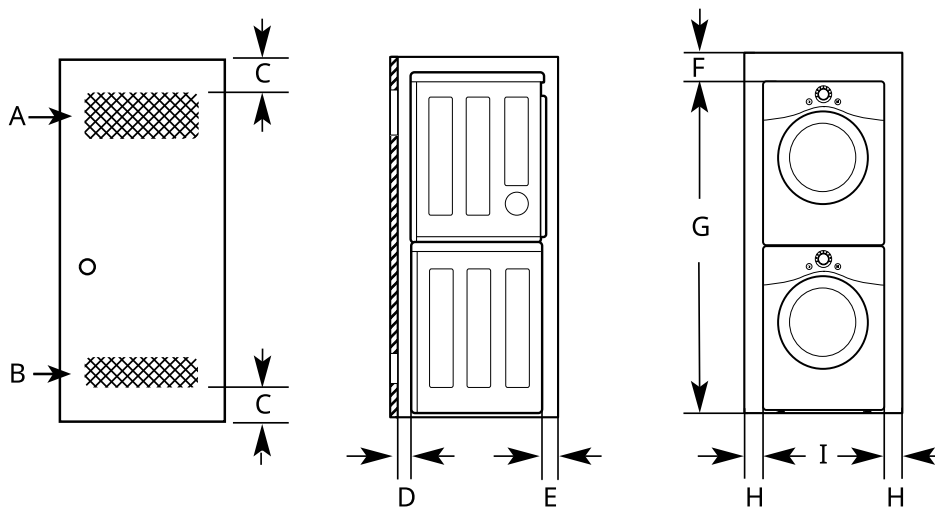
### Closet Ventilation Requirements

Closets with doors must have both an upper and lower vent to prevent heat and moisture buildup in the closet. One upper vent opening with a minimum opening of 48 sq. in. (310 cm<sup>2</sup>) must be installed no lower than 6 feet above the floor. One lower vent opening with a minimum opening of 24 sq. in. (155 cm<sup>2</sup>) must be installed no more than one foot above the floor. Install vent grills in the door or cut down the door at the top and bottom to form openings. Louvered doors with equivalent ventilation openings are also acceptable.

#### NOTE

- There should be at least a little space around the dryer (or any other appliance) to eliminate the transfer of vibration from one appliance to another. If there is enough vibration, it could cause appliances to make noise or come into contact, causing paint damage and further increasing noise.
- No other fuel-burning appliance can be installed in the same closet as a dryer.

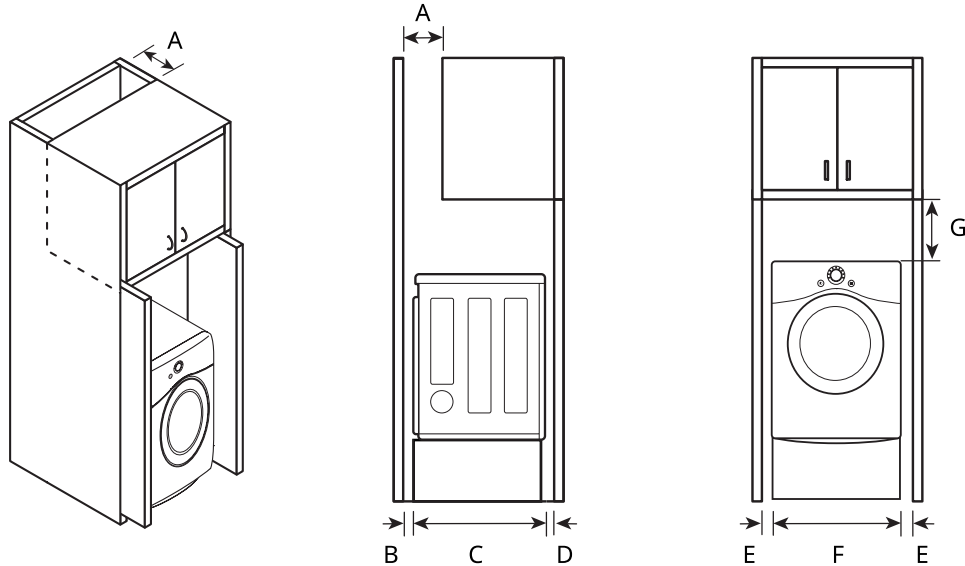
### Installation Spacing for Recessed Area or Closet, with Stacked Washer and Dryer



-	Description	Dimension/Clearance
A	Upper Ventilation Opening	≥ 48 sq. in. (310 cm <sup>2</sup> )
B	Lower Ventilation Opening	≥ 24 sq. in. (155 cm <sup>2</sup> )
C	Distance to Ventilation Opening	≥ 3" (76 mm)
D	Front Clearance	≥ 1" (25 mm)
E	Back Clearance	≥ 5 1/2" (140 mm)
F	Top Clearance to the Ceiling	≥ 6" (152 mm)
G	Height to the Top of Stacked Appliances <sup>†</sup>	67" (1700 mm)
H	Side Clearance	≥ 1" (25 mm)
I	Width <sup>†</sup>	24" (600 mm)

†: It may differ depending on the washer dimension.

## Installation Spacing for Cabinet



For cabinet installation with a door, minimum ventilation openings in the top of the cabinet are required.

-	Description	Dimension/Clearance
A	Depth of Ventilation Opening	≥ 7" (178 mm)
B	Back Clearance	≥ 5" (127 mm)
C	Depth	26 3/8" (670 mm)
D	Front Clearance	≥ 1" (25mm)
E	Side Clearance	≥ 1" (25 mm)
F	Width	24" (600 mm)
G	Clearance to Top of Cabinet	≥ 9" (229 mm)

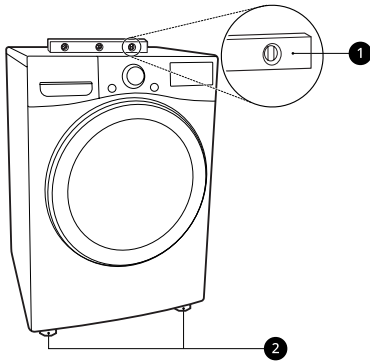
## Leveling the Appliance

### ⚠ WARNING

- Use long-sleeved gloves and safety glasses.
- The appliance is heavy. Two or more people are required when installing the appliance.

### Checking the Level

Position the appliance in the final location and place a level across the top of the appliance.



a Level

b Leveling Feet

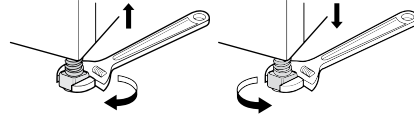
### NOTE

- All four leveling feet must rest solidly on the floor. Gently push on the top corners of the appliance to make sure that the appliance does not rock from corner to corner.
- Adjust the leveling feet only as far as necessary to level the appliance. Extending the leveling feet more than necessary may cause the dryer to vibrate.
- To ensure that the appliance provides optimal drying performance, it must be level. To minimize vibration, noise, and unwanted movement, the floor must be a perfectly level, solid surface.

### Adjusting and Leveling the Feet

Use an adjustable wrench to turn the leveling feet. Unscrew the legs to raise the appliance or screw in the legs to lower it. Raise or lower with the leveling feet until the appliance is level from side to side

and front to back. Make sure that all four leveling feet are in firm contact with the floor.



### NOTE

- If you are installing the appliance on the optional pedestal, you must use the leveling feet on the pedestal to level the appliance. The appliance leveling feet should be fully retracted.

## Reversing the Door

### ⚠ WARNING

- Support the door with a stool or box that fits under the door, or have an assistant support the weight of the door.
- Avoid dropping the door.
- Unplug the appliance or turn off power at the main circuit breaker before beginning door reversal.
- Always reverse the door BEFORE stacking the appliance on top of the washer.

### Tools Required

- Phillips screwdriver
- Large flat blade screwdriver (recommended for hinge screws if they are tight or your Phillips screwdriver is worn)
- Small flat blade screwdriver (for lifting out parts)

### Door Reversal Instructions

The instructions here are for changing the door swing from a right to a left side hinge. If the door has been reversed, and it is necessary to change it back, use care when following these instructions. Some of the illustrations and the left/right references will be reversed, and you will need to read the instructions carefully.

### ⚠ WARNING

- Do not reverse the door while the appliance is stacked on a washing machine.
- Before removing the hinge screws, have an assistant support the weight of the door. The door could fall on the floor due to the weight of the door.

**⚠ WARNING**

- For safety reasons, two or more people need to work together to reverse the door.

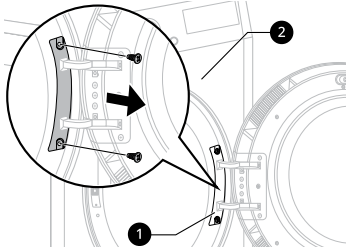
**NOTE**

- The appearance of the screws varies and the screws must be inserted differently depending on the position. Make sure the screw is properly selected before tightening.

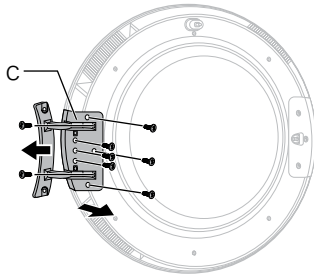
- 1 Open the door and remove 2 screws on the door hinge **a** . After removing the screws, put the door down carefully from the cabinet **b** with the front side facing down to the floor.

**⚠ WARNING**

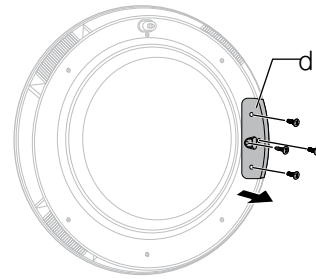
- Be sure to support the weight of the door before removing the hinge screws.



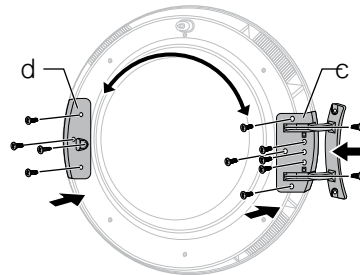
- 2 Remove 8 screws on the hinge assembly **c** from the door.
  - There are 6 screws on the front and 2 screws on the side.



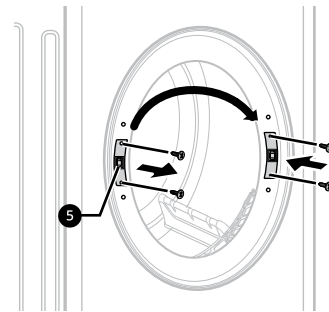
- 3 Remove the 3 screws from the door latch assembly **d** which is fixed between the door and the hinge assembly, and then remove the screw which is fixed on the door hook.



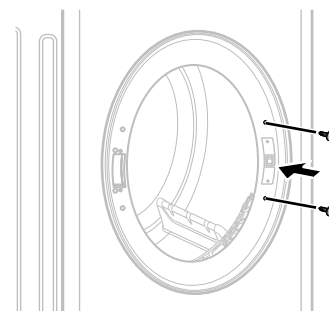
- 4 Swap the position of the hinge assembly **c** and the door latch assembly **d** and then tighten the screws in reverse order.
  - Tighten the screw in their proper position referring from steps 2 to 4.



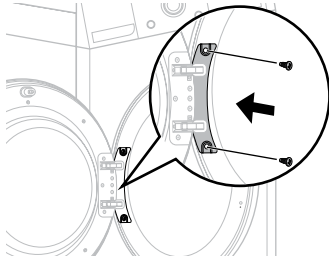
- 5 Remove the door catch **e** from the appliance frame by removing 2 screws and then assemble them on the opposite side.



- 6 Remove the 2 decorative screws from the appliance frame and then assemble them on opposite side.



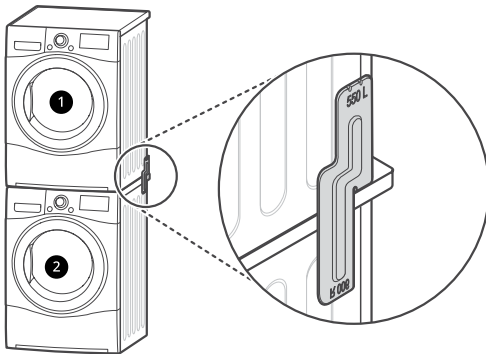
- 7 Install the door with the screws removed in step 1 and then check the door closes properly.



## Stacking the Appliance

### Stacking Kit Overview

In order to stack the appliance, an LG stacking kit is required.



a Dryer

b LG Front Load Washing Machine

The appliance may only be stacked on top of an LG front load washing machine. Do not attempt to stack the appliance on any other washing machine, as it could result in damage, injury or property damage.

Shape and assembly direction	Washing Machine Top plate size	
	21 7/8 inch (550 mm)	23 5/8 inch (600 mm)

### Tools Required

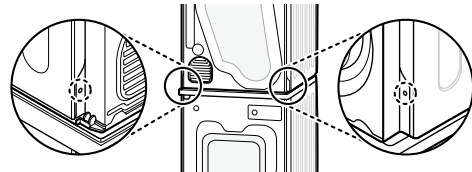
- Phillips screwdriver

## Stacking Kit Installation

### ⚠ WARNING

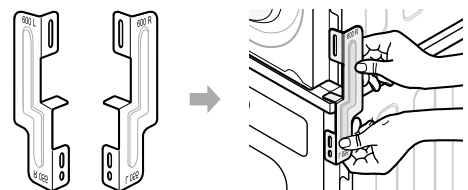
- The weight of the appliance and the height of installation make this stacking procedure too risky for one person. Two or more people are required when installing the stacking kit.
- Place the washer on a solid, stable, level floor capable of supporting the weight of both appliances.
- Do not stack the washer on top of the appliance.
- If appliances are already installed, disconnect them from all power, or water and from draining connections.

- 1 Place the appliance on the top of an LG front load washing machine.
- 2 Remove the 2 screws from the bottom of the rear cover on each side.

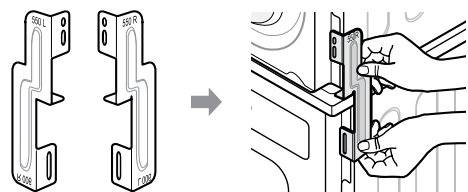


- 3 Align the LG stacking kit holes and the rear cover holes in a line.

- In case of the top plate size is 23 5/8 inch (600 mm)



- In case of the top plate size is 21 7/8 inch (550 mm)



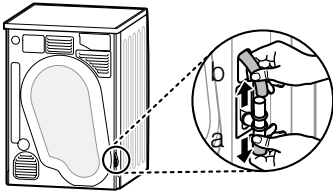
- 4 Fasten the 2 screws that were removed earlier from the appliance to the stacking kit.

- 5 Use the 0.6 inch (16 mm) of 4 screws in the accessory box to assemble the washing machine rear cover and stacking kit.
- 6 The procedure for the opposite side will be the same.

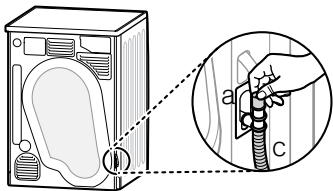
### Installing the Optional Drain Hose

Normally, condensed water is pumped up to the water container where water is collected until manually emptied. Water can also be drained out directly to a mains drain, especially when the appliance is stacked on top of a washing machine. With the connecting elbow or T piece of the mains drain hose, simply change the water path and re-route to the drainage facility as below:

- 1 Separate the anti-backflow lid a and the water container hose b from the connecting elbow or T piece.



- 2 Attach the anti-backflow lid a to the head of the connecting elbow or T piece and then connect the optional drain hose c to the opposite side of the connecting elbow or T piece.



### CAUTION

- If the optional drain hose is installed in a way that leaves it bent or pinched, drainage may not function properly.

## Connecting Electric Dryers

To reduce the risk of fire or explosion, electric shock, property damage, injury to persons, or death when using this appliance, follow requirements including the following:

### Electrical Requirements for Electric Models

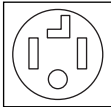
- The wiring and grounding must conform to the latest edition of the National Electrical Code, ANSI/NFPA 70 and all applicable local regulations. Please contact a qualified electrician to check your home's wiring and fuses to ensure that your home has adequate electrical power to operate the dryer.
- This dryer must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the dryer.
- The dryer has its own terminal block that must be connected to a separate 240 VAC, 60-Hertz, single-phase circuit, fused at 30 amperes (the circuit must be fused on both sides of the line). ELECTRICAL SERVICE FOR THE DRYER SHOULD BE OF THE MAXIMUM RATE VOLTAGE LISTED ON THE NAMEPLATE. DO NOT CONNECT THE DRYER TO 110-, 115-, OR 120-VOLT CIRCUIT.
- If the branch circuit to dryer is 15 ft. (4.5 m) or less in length, use UL (Underwriters Laboratories) listed No.-10 AWG wire (copper wire only), or as required by local codes. If over 15 ft. (4.5 m), use UL-listed No.-8 AWG wire (copper wire only), or as required by local codes. Allow sufficient slack in wiring so the dryer can be moved from its normal location when necessary.
- The power cord (pigtail) connection between the wall receptacle and the dryer terminal block IS NOT supplied with the dryer. Type of pigtail and gauge of wire must conform to local codes and with instructions on the following pages.
- A 4-wire connection is required for all mobile and manufactured home installations, as well as all new construction after January 1, 1996. A 4-wire connection must be used where local codes do not permit grounding through the neutral wire.
- Do not modify the plug and internal wire provided with the dryer.
- The dryer should be connected to a 4-hole outlet.
- If the plug does not fit the outlet, a proper outlet will need to be installed by a qualified electrician.

- Connect the power cord to the terminal block. Each colored wire should be connected to the same color screw. Wire color indicated on manual is connected to the same color screw in the block.
- Grounding through the neutral conductor is prohibited for: (1) new branch-circuit installations, (2) mobile homes, (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor.
- This dryer is supplied with the neutral wire grounded. This white ground wire **MUST BE MOVED** to the neutral terminal when a 4-wire cord is to be used, or where grounding through the neutral conductor is prohibited.

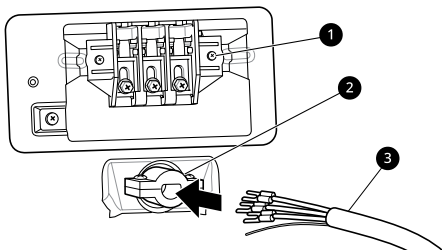
#### NOTE

- For electrical requirements for mobile or manufactured homes, see **Special Electrical Requirements**.

### Four-Wire Power Cord

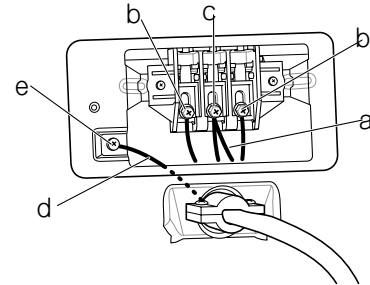
- A 4-wire connection is required for all mobile and manufactured home installations, as well as all new construction after January 1, 1996. 
- A UL-listed strain relief is required.
- Use a 30-amp, 240-volt, 4-wire, UL-listed power cord with #10 AWG-minimum copper conductor and closed loop or forked terminals with upturned ends.

- 1 Remove the terminal block access cover on the upper back of the appliance.
- 2 Install UL-listed strain relief into the power cord through-hole.
- 3 Thread a 30-amp, 240-volt, 4-wire, UL-listed power cord with #10 AWG-minimum copper conductor through the strain relief.



- a Terminal Block
- b UL-Listed Strain Relief
- c UL-Listed 4-Wire Power Cord

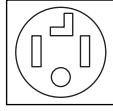
- 4 Transfer the appliance's ground wire from behind the green ground screw to the center screw of the terminal block.
- 5 Attach the two hot leads (black and red) of the power cord to the outer terminal block screws.
- 6 Attach the neutral (white) wire to the center screw of the terminal block
- 7 Attach the power cord ground wire to the green ground screw.
- 8 Tighten all screws securely.
- 9 Reinstall the terminal block access cover.



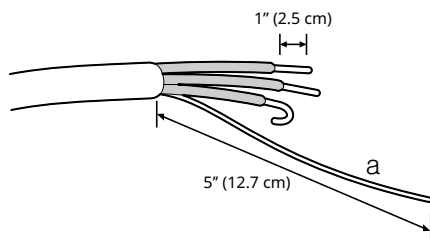
- a White Wire moved from Ground Screw
- b Hot Leads of Power Cord (Black and Red)
- c Neutral Wire (White)
- d Power Cord Ground Wire
- e Ground Screw

### Four-Wire Direct Wire

- A 4-wire connection is required for all mobile and manufactured home installations, as well as all new construction after January 1, 1996.
- A UL-listed strain relief is required.
- Use UL-listed 4-wire #10 AWG minimum copper conductor cable. Allow at least 5 ft. (1.5 m) of wire to allow for removal and reinstallation of the dryer.

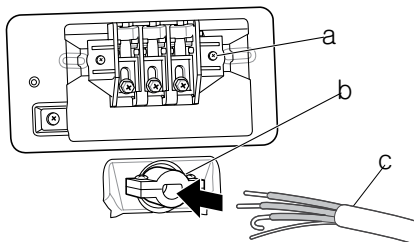


- 1 Remove 5 inches (12.7 cm) of the outer covering from the wire and remove 5 inches of insulation from the ground wire. Cut off approximately 1.5 inches (3.8 cm) from the other three wires and strip 1 inch (2.5 cm) insulation from each wire. Bend the ends of the three shorter wires into a hook shape.



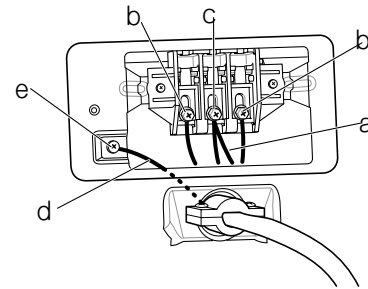
a Ground Wire

- 2 Remove the terminal block access cover on the upper back of the appliance.
- 3 Install UL-listed strain relief into the power cord through-hole.
- 4 Thread the 4-wire #10 AWG minimum copper power cable prepared in step 1 through the strain relief.



a Terminal Block  
b UL-Listed Strain Relief  
c UL-Listed 4-Wire Power Code

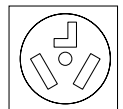
- 5 Transfer the appliance's ground wire from behind the green ground screw to the center of the terminal block.
- 6 Attach the two hot leads (black and red) of the power cord to the outer terminal block screws.
- 7 Attach the neutral (white) wire to the center screw of the terminal block.
- 8 Attach the power cord ground wire to the green ground screw.
- 9 Tighten all screws securely.
- 10 Reinstall the terminal block access cover.



a White Wire moved from Ground Screw  
b Hot Leads of Power Cord (Black and Red)  
c Neutral Wire (White)  
d Power Cord Ground Wire  
e Ground Screw

### Three-Wire Power Code

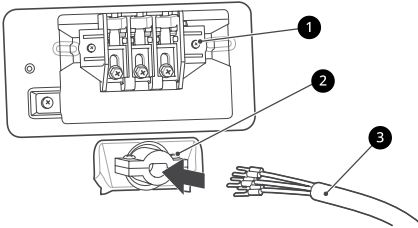
- A 3-wire connection is NOT permitted on new construction after January 1, 1996.



- A UL-listed strain relief is required.
- Use a 30-amp, 240-volt, 3-wire, UL-listed power cord with #10 AWG-minimum copper conductor and closed loop or forked terminals with upturned ends.

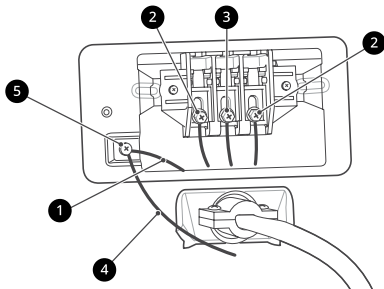
- 1 Remove the terminal block access cover on the upper back of the appliance.

- 2 Install the UL-listed strain relief into the power cord through-hole.
- 3 Thread a 30-amp, 240 volt, 3-wire, UL-listed power cord with #10 AWG-minimum copper conductor through the strain relief.



- a Terminal Block
- b UL-Listed Strain Relief
- c UL-Listed 3-Wire Power Cord

- 4 Attach the two hot leads (black and red) of the power cord to the outer terminal block screws.
- 5 Attach the neutral (white) wire to the center terminal block screw.
- 6 Connect the external ground (if required by local codes) to the green ground screw.
- 7 Tighten all screws securely.
- 8 Reinstall the terminal block access cover.



- a White Wire from Dryer harness
- b Hot Leads of Power Cord (Black and Red)
- c Neutral Wire (White)
- d External Ground Wire (If required by local codes)
- e Ground Screw

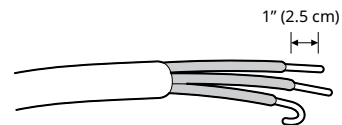
### Three-Wire Direct Wire

- A 3-wire connection is NOT permitted on new construction after January 1, 1996.

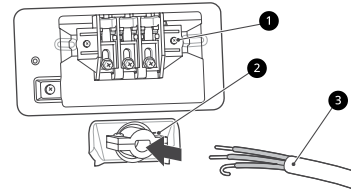


- A UL-listed strain relief is required.
- Use UL-listed 3-wire, #10 AWG minimum copper conductor cable. Allow at least 5 ft. (1.5 m) length to allow for removal and installation of dryer.

- 1 Remove the 3.5 inches (8.9 cm) of the outer covering from the wire. Strip 1 inch (2.5 cm) insulation from each wire. Bend the ends of the three wires into a hook shape.



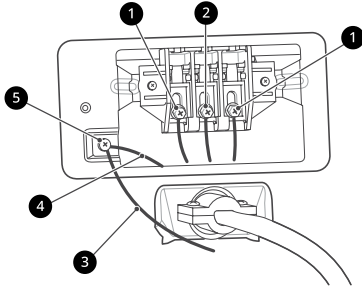
- 2 Remove the terminal block access cover on the upper back of the appliance.
- 3 Install UL-listed strain relief into the power cord through-hole.
- 4 Thread the 3-wire, #10 AWG minimum copper conductor power cable prepared in step 1 through the strain relief.



- a Terminal block
- b UL-listed strain relief
- c UL-listed 3-wire power cord

- 5 Attach the two hot leads (black and red) of the power cord to the outer terminal block screws.
- 6 Attach the neutral (white) wire to the center terminal block screw.
- 7 Connect the external ground (if required by local codes) to the green ground screw.

- 8 Tighten all screws securely.
- 9 Reinstall the terminal block access cover.



- a Hot lead (black and red)
- b Neutral wire (white)
- c External ground wire (If required by local codes)
- d Ground screw (green)
- e Wire from the appliance harness

## Special Electrical Requirements

### For Mobile or Manufactured Homes

- Any installation in a manufactured or mobile home must comply with the Manufactured Home Construction and Safety Standards Title 24 CFR, Part 3280 or Standard CAN/ CSA Z240 MH and local codes and ordinances. If you are uncertain whether your proposed installation will comply with these standards, please contact a service and installation professional for assistance.
- A 4-wire connection is required for all mobile and manufactured home installations, as well as all new construction after January 1, 1996.
- A gas dryer must be permanently attached to the floor.
- The electrical connection for an electric dryer must be a 4-wire connection. More detailed information concerning the electrical connection is provided in the section Connecting Electric Dryers.
- To reduce the risk of combustion and fire, the dryer must be vented to the outside.
- DO NOT vent the dryer under a manufactured home or mobile home.
- Electric dryers may be vented to the outside using the back, left, right, or bottom panel.

- Gas dryers may be vented to the outside using the back, left, or bottom panel. Gas dryers may not be vented to the outside using the right side panel because of the burner housing.
- The dryer exhaust duct must be affixed securely to the manufactured or mobile home structure, and the exhaust duct must be made of a material that will resist fire and combustion. It is recommended that you use a rigid, semi-rigid or flexible metal duct.
- DO NOT connect the dryer exhaust duct to any other duct, vent, chimney, or other exhaust duct.
- Make sure the dryer has adequate access to outside fresh air to ensure proper operation. The opening for outside fresh air must be at least 25 sq. in (163 cm<sup>2</sup>).
- It is important that the clearance of the duct from any combustible construction be at least 2 inches (5 cm), and when venting the dryer to the outdoors, the dryer should be installed with a clearance of at least 1 inch (2.5 cm) at the sides and back of the dryer.
- Please be aware that venting materials are not supplied with the dryer. You must obtain the venting materials necessary for proper installation.

## Final Installation Check

Once you have completed the installation of the dryer and it is in its final location, confirm proper operation with the following tests.

### Checking Levelness

Once the dryer is in its final location, recheck the dryer to be sure it is level. Make sure it is level front to back and side to side, and that all four leveling feet are in firm contact with the floor.

**⚠ WARNING**

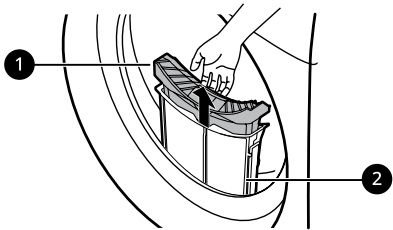
- Remove the power plug when you clean the appliance. Not removing the plug may result in electric shock.

**Cleaning after Every Dry****Cleaning the Lint Filter****⚠ CAUTION**

- Clean the lint filter in the proper way referring to the following instructions. Failure to do so, the lint that is accumulated on the heat exchanger may not be cleaned properly.

**NOTE**

- Unload the all of the laundries from the appliance before pull out the lint filter.
- After cleaning the lint filter insert them in a place. If the lint filter is not in the appliance, you can not operate the appliance.

**a Inner Filter**

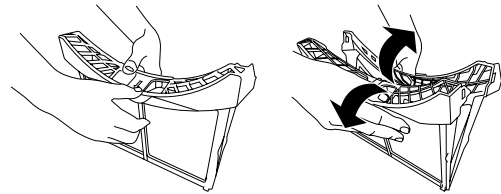
- Always clean the inner filter before and after use.

**b Outer Filter**

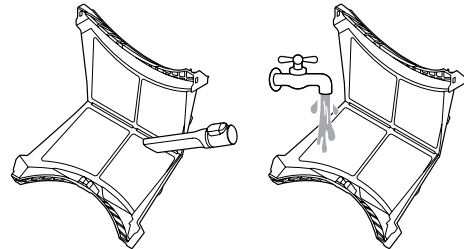
- Clean the outer filter after drying 10 times or when the lint is accumulated into the outer filter.
- A chime will sound after every 10 drying cycles and the K icon will blink.

**Clean the inner filter**

- 1 Pull out the inner filter from the outer filter and then open the inner filter.
  - Open the filter by unfolding it in the direction of the arrow.



- 2 Clean a large cluster of lint first, then clean the residual lint using vacuum cleaner or washing under running water.



- Dry the filter completely if the filter is moist. Failure to do so, odour may occur in the appliance.

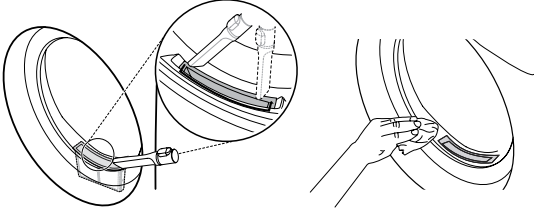
- 3 After drying the inner filter completely, close the filter by pushing down its center.

- Ensure the left and right side of the inner filter is closed properly.

- 4 Insert the inner filter into the outer filter.

## Clean the outer filter

- 1 Remove the dust or lint around the filter inlet.



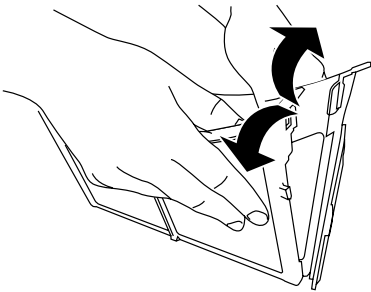
### ⚠ CAUTION

- When the lint drops into the filter inlet, it may cause degradation of drying performance and increase in drying time.

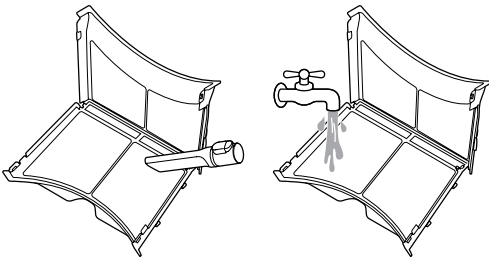
- 2 Pull out the outer filter.

- 3 Remove the inner filter.

- 4 Open the outer filter by unfolding in the direction of the arrow grasping the top edge of the outer filter.

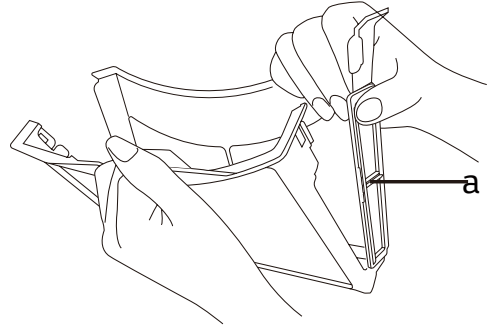


- 5 Clean the residual lint using vacuum cleaner or washing under running water.



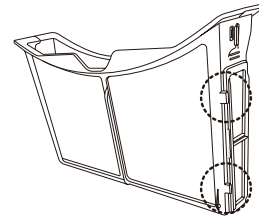
- Dry the filter completely if the filter is moist. Failure to do so, odour may occur in the appliance.

- 6 Close the outer filter while pushing the side(a) of the filter.

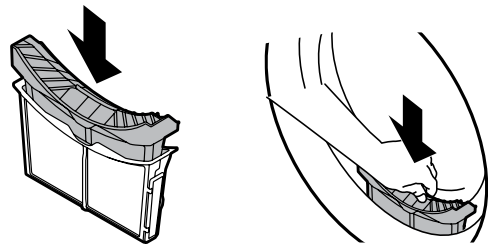


### NOTE

- Ensure the side of the filter is closed properly. Failure to do so, any lint accumulated on the filter may get into the appliance and may cause degradation of the drying performance.



- 7 Close them, and reinsert the both lint filters.



### ⚠ CAUTION

- Do not load or remove any laundry when the lint filter is not in a place. The laundry can drop into the the filter inlet and it may cause the appliance to malfunction.

## Emptying the Water Container

Condensed water is collected in the water container.

**⚠ WARNING**

- Unplug the appliance before cleaning.
- Never use harsh chemicals, abrasive cleaners, or solvents to clean the appliance. They will damage the finish.

**Regular Cleaning****Cleaning the Exterior**

Proper care of your appliance can extend its life. The outside of the appliance can be cleaned with warm water and a mild, nonabrasive household detergent. Immediately wipe off any spills with a soft, damp cloth.

**NOTE**

- Do not use methylated spirits, solvents, or similar products.
- Never use steel wool or abrasive cleansers; they can damage the surface.

**Cleaning the Interior**

Wipe around the door opening and seal with a soft, damp cloth to prevent lint and dust build-up that could damage the door seal.

Clean the window with a soft cloth dampened with warm water and a mild, nonabrasive household detergent, then wipe dry.

The stainless steel drum can be cleaned with a conventional stainless steel cleaner, used according to the manufacturer's specifications. Never use steelwool or abrasive cleansers; they may scratch or damage the surface.

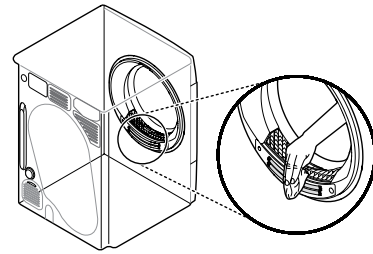
**Cleaning the Appliance Periodically****Wiping the Moisture Sensor**

This device senses the moisture level of the clothes during operation, which means it must be cleaned regularly to remove any build-up of lime scale on the surface of the sensor.

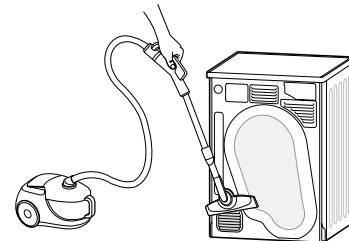
Wipe the sensors inside the drum.

**⚠ CAUTION**

- Do not wipe the moisture sensor with abrasive materials. Always clean the sensor with a dry rough acrylic sponge.

**Cleaning the Cool Air Inlet Grill**

Vacuum the cool air inlet grill 3 - 4 times a year to make sure there is no build up of lint or dirt that may cause improper air flow. Always unplug the appliance from the mains power before cleaning or vacuuming.

**NOTE**

- Warm air is expelled through the ventilation grill.
- Adequate room ventilation should be provided to avoid the contamination of air into the room from units burning other fuels, such as open fires.

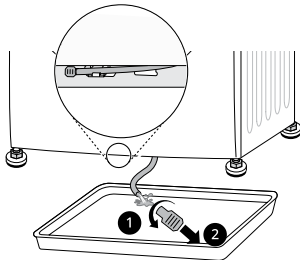
## Draining the Remaining Condensed Water

After drying clothes, a small quantity of condensed water may stagnate in the base of the appliance and cause odours. Drain the remaining water regularly to reduce any unpleasant odours from the appliance.

### NOTE

- It's better to drain the remaining water when you are going to be away for a long time, because the remaining water will stagnate and cause odours.
- Draining the remaining water before the deodorizing, which works better.
- The remaining water can cause a freezing of the main drain hose(s) and affect the drying performance in cold weather. Draining the remaining water can prevent the appliance from unexpected freezing.

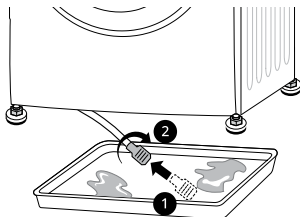
- 1 Run the **Air Dry** cycle while 3 minutes then turn off the appliance.
- 2 Unclip the drain tube under the appliance and drain the remaining water.



### NOTE

- Use the water collection tank if the optional drain hose is installed or the appliance is stacked on the washing machine.

- 3 Reassemble the plug onto the drain tube and reclip the drain tube into its holder.



### CAUTION

- When the tube is open, it  
Make sure that the plug assemble correctly.

## Using Drum Care Feature

With time and use, the appliance may form unpleasant odours that leave your clothes smelling after drying. Using this cleaning function periodically helps to reduce the unpleasant odours from the appliance.

### CAUTION

- Remove all of the clothes from the appliance.

- 1 Pull out the water container, empty the condensed water from it and refit the water container back into the appliance.

- 2 Turn on the appliance.

- 3 Press the **Drum Care** button for 3 seconds.



- 4 Press the **Start/Pause** button.
  - This function operates for about 3 hours.

- 5 Empty the water container after the function has finished.

### NOTE

- When the optional drain hose is installed, there is no need to empty the water container.

- 6** Open the dryer's door to provide the appliance with enough air circulation for exhausting any remaining odours.

### ⚠ WARNING

- For safety reasons, do not allow children or animals to enter the appliance. It may cause damage or injury.

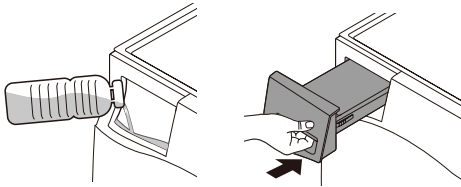
## Using Condenser Care Feature

The appliance washes lint, which builds up onto the surface of the condenser, automatically using water that is condensed from the clothes during operation. However, you can clean the condenser manually if you want to clean it more often.

### ⚠ CAUTION

- Remove all of the clothes from the appliance.

- 1** Pull out the water container and empty the water container.
- 2** Pour 34 oz. (1 liter) of clean water slowly into the opening of the water container compartment. Then slide the empty water container back into the compartment.
  - Do not pour the water quickly as it will spill out.
  - Pouring more than 1.5 liters of water into the compartment will cause water to leak back out.



- 3** Turn on the appliance.
- 4** Press the **Condenser Care** button.



- 5** Press the **Start/Pause** button to start the cleaning of the condenser.
  - The cleaning of the condenser proceeds for 1 hour.

- 6** Empty the water container after the cleaning is finished.

### NOTE

- When the optional drain hose is installed, there is no need to empty the water container.

- 7** Open the dryer's door to provide the appliance with enough air circulation for more thorough drying of the tub after the cleaning has ended.

### ⚠ WARNING

- For safety reasons, do not allow children or animals to enter the appliance. It may cause damage or injury.

## Care in Cold Climates

If the ambient temperature is too low, the condensed water inside the appliance may be frozen and affect the appliance operation. When the condensed water freezes thawing your appliance is necessary by referring to the following instructions.

### NOTE

- $\square$ E messages or  $\text{🌀}$  icon appears on the display when the condensed water inside the appliance is frozen.

## Thawing out the Accessories

### In case of optional drain hose


- Wrap the drain hose in a towel soaked in hot water (140 °F / 60 °C).

### In case of water container

- Remove the water container and place it in a sink filled with hot water (140 °F / 60 °C).


## Thawing out the Appliance

### Running thawing mode

- 1 Turn on the appliance and press the **Less Time** button for 3 seconds.
  - When thawing mode is activated, estimated thawing time (3 hours) and  appears on the display.

#### NOTE

- Only **Less Time** button on the control panel is pressed to activate the thawing mode.
- Only **Power** and **Start/Pause** buttons work when the thawing mode is activated.
- It does not allow you to change the thawing time manually.
- To deactivate the thawing mode, turn off the appliance.

- 2 Press the **Start/Pause** button to start the thawing mode.
  - Actual thawing time varies depending on the installation environment such as installation location and ambient temperatures of the appliance.
  - A chime sounds and  is turned off after the thawing is done.

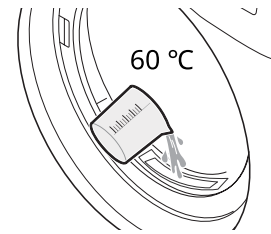
- 3 Dry the clothes as usual.





### Thawing out the appliance manually

- 1 Open the dryer's door and pull out both inner and outer filter.
- 2 Carefully pour 34 oz. (1 liter) of hot water at 140 °F / 60 °C into the lint filter compartment and then reinsert both lint filters.

#### CAUTION

- Pouring more than 51 oz. (1.5 liters) of water into the compartment will cause water to leak out. Wear gloves and use care when pouring hot water. 140 °F (60 °C) water can cause scalding or burns. Using water that is hotter than that can cause the appliance to malfunction.



- 3 Turn on the appliance and operate the **Normal** cycle about 30 seconds. Then wait about 30 minutes.
- 4 Operate the **Normal** cycle again. Check if the  message will appear or  will light up within 10 minutes after operating the appliance.
  - When the  message or  icon appears go to step 2 and repeat procedure.
  - Nothing appears on the display when the thawing is done.
- 5 Dry the clothes as usual.

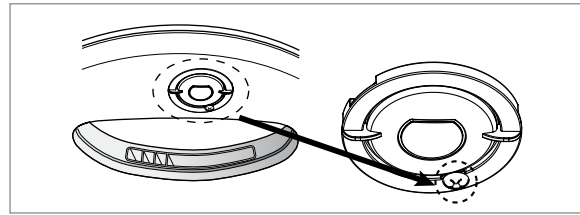
**⚠ CAUTION**

- Power cord must be unplugged before this work to avoid danger of electric shock.
- The bulb itself could be very hot when the dryer just finishes its operation. So before changing the bulb, be sure that the inside of the drum is cool down.

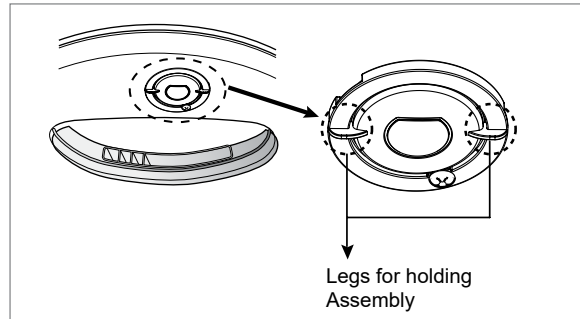
1. Disassemble Top plate, Safety Cover (Top), Drawer and Control Panel Assembly as explained in Page 61~76
2. ① Disassemble Panel Frame.  
② Disconnect the Red Connector



3. Open the Door, Put your one hand inside the Drum and unscrew the screw on Lamp Cover with the help of a screw driver.



4. Rotate the lamp cover in anti-clockwise direction (from your side) till it stops to rotate and pull it with certain amount of force, and take out the LED Lamp Cover Assembly.









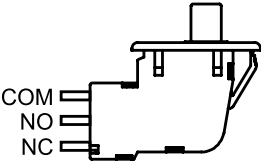





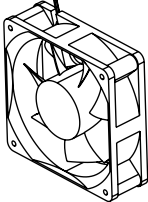

5. Now insert new LED Lamp Cover assembly from inside and pull the connector and its wire toward outside through the hole, at same time rotate the lamp cover in clockwise direction, till it stops to rotate.
6. Screw the screw taken out during disassembly.
7. Connect the Red Connector.

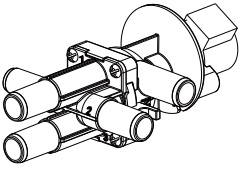







8. Assemble the control panel, Drawer and Top plate.

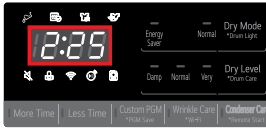

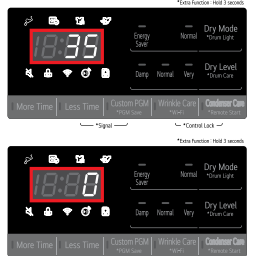




(DO NOT forget to connect the connectors of Control Panel Assembly in PCB Assembly).

Component	Test procedure	Check result	Remark
1. Drum outlet thermistor 	Measure resistance of terminal to terminal (2Wire :Orange 2wire)	Resistance value: $10 \pm 5\% \text{ k}\Omega$ (25°C)	Cover, Front 
2. BLDC motor 	Measure resistance of Terminal to terminal	Resistance value (25°C) U/V : $20(\pm 2)\Omega$ V/W : $20(\pm 2)\Omega$ W/U : $20(\pm 2)\Omega$ *U : Orange wire *V : White wire *W: Yellow wire	Base assembly 
3. Pump 	Measure capacitance of Terminal to terminal	Resistance value : $4.4\pm 10\% \Omega$ (25°C)	Base assembly 

Component	Test procedure	Check result	Remark
4. Door S/W 	Measure resistance of the Following terminal 1) Door switch : Open ① Terminal : "COM"- "NC" (1-3) ② Terminal : "COM"- "NO" (1-2) 2) Door switch : Close ① Terminal : "COM"- "NC" (1-3) ② Terminal : "COM"- "NO" (1-2)	1) Door switch : Open ① Resistance value (25°C) < 1Ω ② Resistance value (25°C) = ∞ 2) Door switch : Close ① Resistance value (25°C) = ∞ ② Resistance value (25°C) < 1Ω	Cover, Front 
5. LED Lamp asm. 	Measure resistance of the Following terminal · Red housing -.2wire (BL & RED)	DC 12V (25°C)  Power on : Check the voltage in terminal	Cover, Front 
6. Inverter Compressor set 	Measure resistance of the Following terminal ① Terminal : "C"- "R" at 25°C ② Terminal : "C"- "S" at 25°C	Measure resistance of the Following terminal Resistance value(25°C) ① Resistance : 2.56±0.3Ω (BLUE&RED) ② Resistance : 2.56±0.3Ω (RED&BLACK) ③ Resistance : 2.56±0.3Ω (BLACK&BLUE)	Base Assembly 
7. Cooling fan 	Refer to page 38. - LQC Mode (5times, Hear the cooling fan operation) Measure resistance of the Following terminal · Red housing -.2wire (BL & RED)	DC 12V (25°C)  Start-up Voltage: Up 6V Rate current: 0.5A + 10% Locked current: Under 1A	Base Assembly 


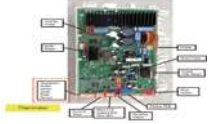








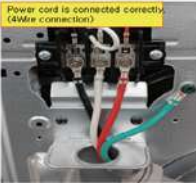


Component	Test procedure	Check result	Remark
<p>8. Control Valve</p> 	<p>Measure resistance of the Following terminal</p> <p>White housing -.2 wire (Two of five colors)</p>	<p>- Resistance value - Two wire terminal of five colors : <math>70 \pm 7\% \Omega (25^\circ\text{C})</math></p>	<p>Base Assembly</p> 
<p>9. Thermistor (Compressor discharge pipe)</p> 	<p>Measure resistance of the Following terminal</p> <ul style="list-style-type: none"> <li>White housing -.2wire</li> </ul>	<p>Norminal resistance : <math>230 \pm 1\% \text{k}\Omega (25^\circ\text{C})</math></p>	<p>Pipe Assembly</p> 
<p>10. Lid Switch</p> 	<p>Measure resistance of the Following terminal</p> <ul style="list-style-type: none"> <li>Blue housing -.2wire</li> </ul>	<p>Norminal resistance : Under <math>250 \text{m}\Omega (25^\circ\text{C})</math></p>	<p>Pipe Assembly</p> 










Number of action/ pause button presses	State of action	Sign of Display	Checklist
0 time	LED light and check button		Please check below 1. All LED lamps on 2. Sign of down data on LED Window 3. When you press a control panel button, sound of "Tting Tting" (normal) ① 19:d2 ② 18:IH ③ IU:XX (Main Version::XX) ④ Id:XX (Display Version::XX) ⑤ IC:XX (Inverter Version::XX)
1 time	Check state of motor operation and data of humidity sensor. Rotate motor clockwise.		Please check below 1. All LED lamps on 2. Sign of humidity sensor data on LED Window ① 2:25 (data of humidity sensor = 225) Humidity sensor value is rising. Maximum humidity value: more than 220 (normal) Minimum humidity value: less than 50 (normal) 3. Sign of Motor RPM data on LED Window, P:xx - Motor RPM rise at P:28 (normal)
2 times	Check pump operation		Please check below 1. Sign of down data on LED Window - 0~37 [drainage pump RPM] (normal) 2. Check a Water level in the base - 0: Sensor does not detect water - 1: Water remain in the base
3 times	Check a compressor operation A Compressor Hz Temperature of a low temperature Thermistor		Please check below 1. All LED lamps on 2. A Compressor Hz - H:xx(sign of a compressor Hz) 3. Temperature of a low temperature thermistor - L:XX 4. Check whether a Main PCB cooling fan is on (Please listen to the sound of a cooling fan)
4 times	(Temperature of a Compressor discharge) Humidity sensor value		Please check below 1. Temperature of a Compressor discharge - C:xx 2. Humidity sensor value Maximum humidity value: more than 220 (normal) Minimum humidity value: less than 50 (normal)
5 times	1) Check a cooling fan operation (a cooling fan on) 2) Sign of WiFi version (IF:XX) - When nE happens, nE is marked - When nE happens, nE is marked		Please check below 1. Check whether a cooling fan is on (Please listen to the sound of a cooling fan) 2. Sign of WiFi version (IF:XX) [XX is marked in numbers] 1) - When nE happens, nE is marked 2) - When nE happens, nE is marked - If you don't register product WIFI, nF will happen and this is a normal product. - Please register product WIFI referring to page 55~57.
6 times			Please check below 1. Power off 2. Sound of end buzzer

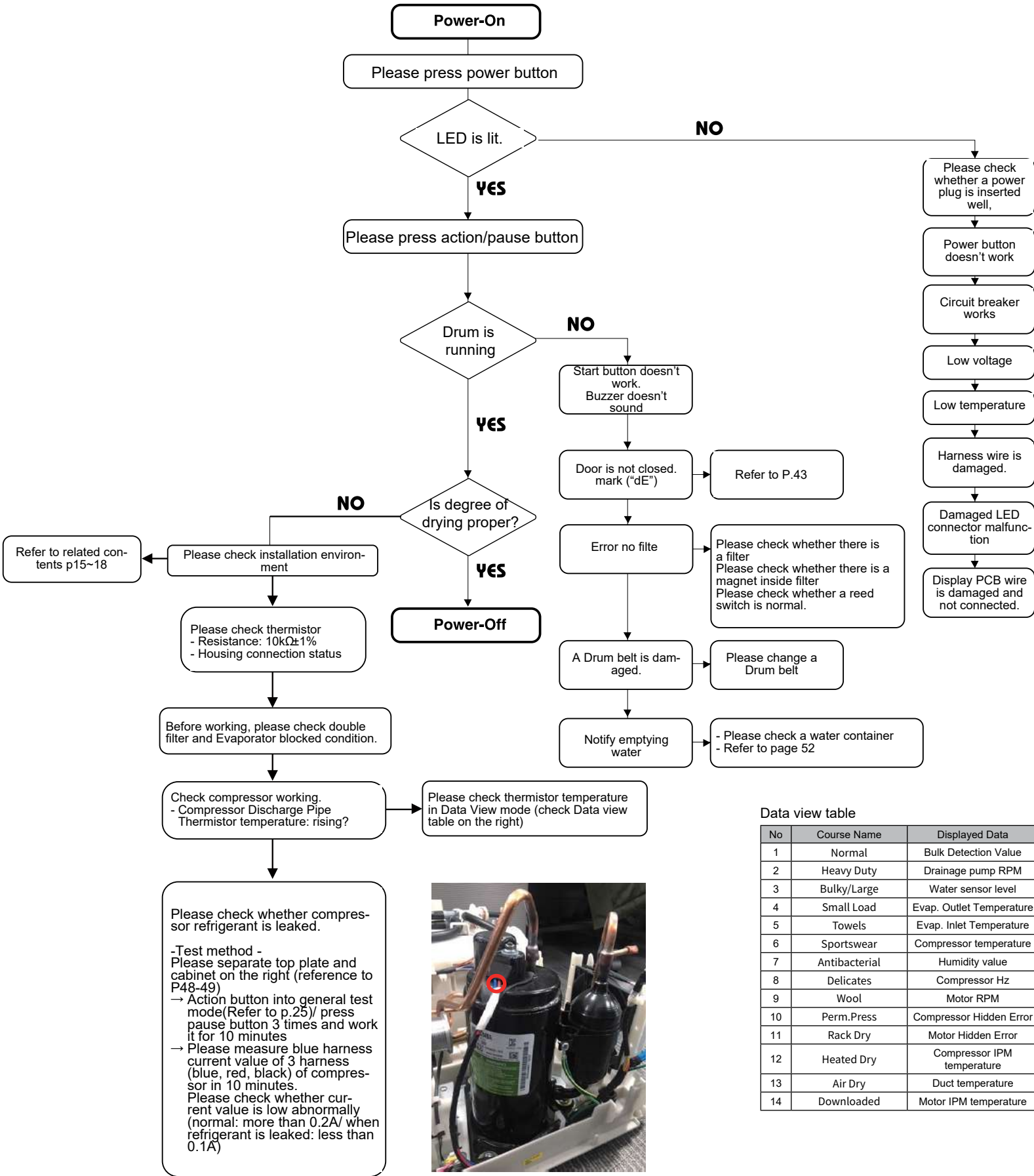
No. of Button pressing	Display	Remarks
More Time + Less Time + Power Key	LQC line inspection, display the LQC TEST1	

## ● Error Mode

Display	symptom	Check point
	Drum outlet thermistor open/short	1) Checking Connector -> not assembled? Check Whether connector in connected correct or not? Refer to Right picture. (Refer to page 54) 2) Checking thermistor element Check if thermistor resistance in normal or not? * Thermistor Resistance : $10k \pm 5\%$ . (25°C) Replace the thermistor (R code : B139) 3) Replace the Harness (R code : A190) 4) Replace the main PCB (R code : A160) 
	Compressor discharge pipe thermistor temperature Open/short.	1) Checking Connector -> not assembled? Check Whether connector in connected correct or not? Refer to Right picture. 2) Checking Thermistor element Check if thermistor resistance in normal or not? * Thermistor Resistance : $10k \pm 1\%$ . (25°C) Replace the thermistor (R code : C365) 3) Replace the Harness (R code : A190) 4) Replace the main PCB (R code : A160) 
	Restricted Motor (Restart → Not start motor → Not operation product → Display "LE1" message)	1) Check the structural restriction (Motor supporter / Air guide Blower) 2) Checking Connector -> not assembled? Check Whether connector in connected correct or not? 3) Check the BLDC motor. (Refer to page 34, 54) 4) Replace the main PCB (R code : A160) 
	Detect low electric current (Restart → Compressor operation is repeat 3 times → Not operation product → Display "LE2" message )	1) Check the lint Double filter. (Remove the Lint) 2) Check the temperature around the appliance. 3) Replace the main PCB (R code : A160) 4) Replace the Base Assembly (R code : C600)
	Detect Door open (Restart → Not operation product → Display "dE" message )	1) Checking Connector -> not assembled? Check Whether connector in connected correct or not? Refer to Right picture. ((Refer to page 54) 2) Check the door switch and hook. No damaged? 3) Replace the main PCB (R code : A160) 
	Power Cord is connected incorrectly or Power supply Error	1) Check the connection of the power cord to terminal block.(page 23~26) 2) If terminal block installed properly, Check Electric supply system. (Not applied 120V , applied 208V, 240V)   

## Error Mode

Marked contents	Symptom	Checklist
		<ol style="list-style-type: none"> <li>1) Connector→out of line or poor contact→Open Please check whether a connector is contacted well.</li> <li>2) Harness→please check whether harness is normal. → If it is not, please change harness</li> <li>3) Thermistor part→ poor Please check whether a thermistor resistance is normal. *Resistance value: <math>10k\Omega\pm 5\%</math> (25°c standard)</li> <li>4) Please change Main PCB</li> </ol>
	<p>When a drainage pump doesn't work well</p> <ol style="list-style-type: none"> <li>① Check whether a drainage pump works well</li> <li>② If ① is ok, check water level sensor.</li> </ol>	<ol style="list-style-type: none"> <li>1) Connector→ out of line or poor contact Please check whether a connector is contacted well.</li> <li>2) Water detection level sensor- out of line or poor contact Please check whether Water detection level sensor is installed well.</li> <li>3) Hose- Is a hose blocked? Please check whether a hose connected to pump is blocked.</li> <li>4) Please disassemble Pump Cover Asm. (P. 65~66) Please remove foreign matters and check whether impeller is restrained. If a Pump is damaged, please change a pump. (R Code : C251)</li> <li>5) Please change Main PCB (R Code : A160)</li> </ol>
	Compressor (restart- no drive product – sign “AE” error)	<ol style="list-style-type: none"> <li>1) Connector→ out of line or poor contact Please check whether a connector is contacted well.</li> <li>2) Please change Harness (R Code : A190)</li> <li>3) Please change Main PCB (R Code : A160)</li> <li>4) Please change the Base Assembly (R code : C600)</li> </ol>
	When a dryer doesn't work, an Icon on the left is flickered and an alarm is rung.	<ol style="list-style-type: none"> <li>1) Please check whether a filter is inserted well</li> <li>2) Please check whether a magnet on the inner side of the filter is assembled well.</li> <li>3) Checking Connector -&gt; not assembled? Check Whether connector is connected correct or not? (Refer to page 54)</li> <li>4) Please check whether resistance of Lid switch is normal. Resistance value: less than <math>250m\Omega</math> (25°c standard)</li> </ol> 
	If WIFI product is not registered (normal product)	<ol style="list-style-type: none"> <li>1. Please register WIFI product (Refer to page 55~56) (If a product is not registered, “nF” message occurs.)</li> <li>2. After registering a product, remove power code.</li> <li>3. Reconnect a power code</li> <li>4. Release “nF” when re-enter to test mode</li> <li>5. “IF:XX” is changed. (XX: mark as numbers)</li> </ol>
	WIFI modem (module) single product Error.	<ol style="list-style-type: none"> <li>1. Please check the internet and network of customers' home.</li> <li>2. Please register WIFI product (Refer to page 55~56) (If a product is not registered, “nF” message occurs.)</li> <li>3. WIFI product is not registered consistently.</li> <li>4. When re-enter to test mode, “nF” message occurs consistently.</li> <li>5. When re-enter to test mode, a product is not registered consistently and when “nF” message occurs consistently, change Display PCB.</li> </ol>
		<ol style="list-style-type: none"> <li>1. Please change Display PCB. (R Code : A150)</li> </ol>



Data view table

No	Course Name	Displayed Data
1	Normal	Bulk Detection Value
2	Heavy Duty	Drainage pump RPM
3	Bulky/Large	Water sensor level
4	Small Load	Evap. Outlet Temperature
5	Towels	Evap. Inlet Temperature
6	Sportswear	Compressor temperature
7	Antibacterial	Humidity value
8	Delicates	Compressor Hz
9	Wool	Motor RPM
10	Perm.Press	Compressor Hidden Error
11	Rack Dry	Motor Hidden Error
12	Heated Dry	Compressor IPM temperature
13	Air Dry	Duct temperature
14	Downloaded	Motor IPM temperature



## Test 1 : ELECTRIC SUPPLY &amp; MAIN PCB CHECK

Trouble Symptom : No power to the dryer or the main PCB

Measurement condition : Power is on.

[⚠ Caution] Electric shock. Please test after grounding check.



Power voltage is within standard range (196~254V)?



- Check the - Circuit breaker



- Check after disconnecting Black relay connector of Main PCB.
- Check the range of Blue and Brown wire is within AC 215 ~245V?



- Check or replace the Power cord.
- Check or replace the Noise filter.
- Check or replace the main PCB



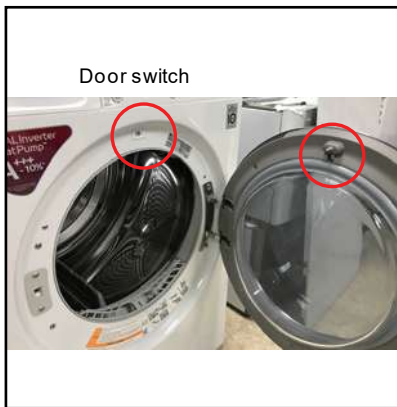
- Check the short of harness assembly and the connection.



### Test 2 Door switch

Trouble Symptom : Malfunction of door switch Display  $dE$  message in case of the door closed.

Measurement condition : Check if they are working while being connected to power supply.



Check the door switch and hook. Not damaged?



Replace damaged item.  
Replace the door switch.  
- (R code – B130, page 81)  
Replace the hook.  
- (R code – B103, page 81)



Check the door switch wire harness.  
Is resistance range normal?



Replace door switch  
Replace the door switch.  
- (R code – B130, page 81)



1) Checking Connector -> not assembled?  
Check Whether connector in connected correct or not?  
Refer to Right picture

2) Connected to main PCB? (Refer to page 54)  
3) Replace the wire harness.  
- (R code – A190,)  
Replace the main PCB.  
- (R code – A160)



## Test 3 Motor check

Trouble Symptom: Motor malfunction

- Measurement condition :
- Power cord is unplugged.
  - Door is closed.
  - Check the user condition.
    - Put overload into drum?
    - Normally Input Voltage and Hertz?
  - Pre-Check door switch  
(If door switch has contact problem, motor should not operate.)



- Before check process, Check the motor rotating by the LQC test mode "See the 38 page"

- When power is on and pressed the start button, does motor operate?



- Check the harness connection.
  - Motor part : White 10pin housing. (Orange, white, yellow)
  - the main PCB : Gray 3pin housing (Orange, white, yellow)
- Check the belt (position/ broken).



- Isn't there any abnormal noise during operation?



- Check belt is burst
- Check structural restriction.
- Check the compressor suction pipe. Replace Base asm. (R code – C600, Page 71)



- Check white 10 pins female connector from motor. Resistance check (Orange, white, yellow)
- Check white 10 pins female connector from controller. (when power cord is plugged) -OR/WH or WH/YL or OR/YL  
In 10pin male connector : 220~240V

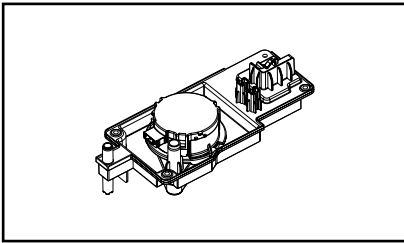


- Check or replace motor
- Check harness connection
- Check the motor resistance
- Motor Resistance (Refer to page 34)
- Replace Motor (R code – C200, Page 82)

## Test 4 Pump check

Trouble Symptom : LED display show " OE " signals.

Measurement condition : When disassemble the product, Power cord is unplugged

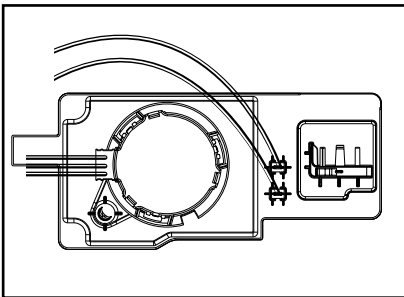


Hose is twisted or blocked?  
Please check drain hose connected status.  
On LQC Test Mode, start button press twice.  
Pouring the water in hose attached in dispenser until Sump water level "1" .  
Pump operating?

**NO**

- 1) Connector -> not assembled?  
Check whether connector in connected correct or not?
- 2) Sump Level sensor -> not assembled?  
Check whether connector in connected correct or not?
- 3) Hose -> clogging ?  
Hose attached in Pump is clogged?
- 4) Diassemble the Pump cover asm.  
(See the page 65~66)  
Eliminate impurities and check impeller restriction  
If the pump is broken, Replace the Pump (R code: C 251)

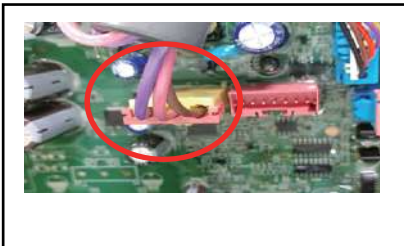
**YES**



Replace the main PCB  
(R code : A160)

**NO**

- Check or replace pump
- Check harness & connection



Main PCB Connector

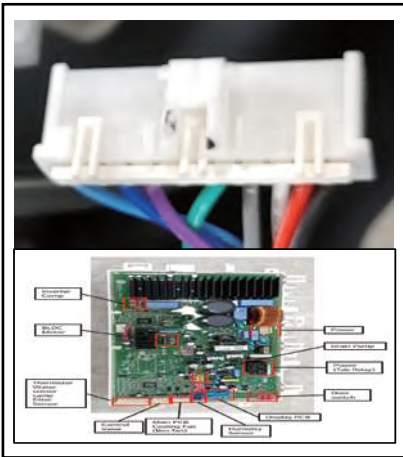


Sump Level Sensor Pump connector

### Test 5 Thermistor check

Trouble Symptom : Poor drying performance(over-drying or no drying). Abnormal thermistor operation.

Measurement condition : When disassemble the product, Power cord is unplugged



Isn't there any abnormal noise during operation?



- Check and replace thermistor.
  - 1) Check disconnected Housing or severed Wire.
  - 2) Check the resistance of thermistor.
  - 3) Replace controller and then recheck, if anything else occurs.

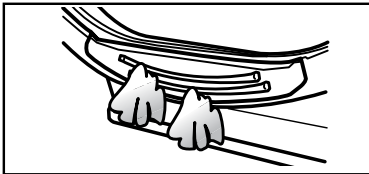


- Check harness & connection

Test 6 Moisture sensor check

Trouble symptom: Absolutely Long time drying or Not drying

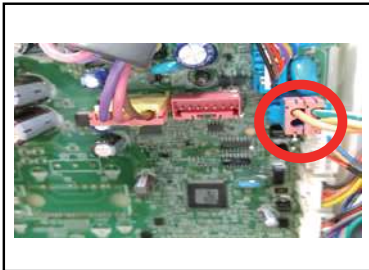
Measurement condition : When disassemble the product, Power cord is unplugged



Remove all of the clothes in drum.  
After making damp clothes or hands touch humidity sensor, the range is below reference in LQC test mode value.  
※ Door switch is pressed before testing.  
Is it normal?  
Checking method –  
1) Touch by Damp clothes or Hands (Min value is falling down until 20~50)  
2) Don't Touch sensor (Max value is rising until about 220~255)  
※ Refer to page 25 (LQC test mode)



• See the page 43



With Blue 4 disconnected from Controller, Blue 4 pin ② - ③  
Resistance is unlimited?  
② : Orange wire  
③ : Green wire



• Check Harness  
• Check if Sensor tips have foreign objects  
- Refer to the left picture



With metal tape attached to Sensor tips, Blue 4 pin ② - ③  
Resistance is less than 10<sup>Ω</sup>?  
② : Orange wire  
③ : Green wire



• Check Harness  
- Open, Connector is disconnected



Replace Main PCB.  
(R code – A160, Page 80)

Test 7

Defect symptom: why not dry

Measurement condition: please check whether it works with power applied

Is a product horizontal?  
(Please check shake and tilt a product) **NO** Adjust the leveling feet  
(Refer to page 19, How to align horizontally)



Do you mix clothes of different materials?  
(Do you mix thick polyester clothing and Thick cotton material?) **YES** Please dry by clothes separately because drying time or degree of drying is different.



Are dried clothes wet too much? **YES** Wet clothes too much in dry condition are not dried well After washing, please spin dry clothes properly and dry them.



Is installation environment proper?  
1) Ambient temperature: 5~35C  
2) Please check distance between a wall and a product  
3) Is it installed as a fixture or outside **NO** Please install it after checking installation environment (Refer to Page 15~18 , installation method)



Is there flow blockage  
1) Please check a lint filter clean state **YES** Please clean a lint filter clear!



Does a humidity sensor work normally?  
( Reference to P.38, Check test method)  
- Test method -  
Please take out all dried clothes inside drum. → Please turn on the power. Please check humidity value. Please check whether minimum humidity value. Is high abnormally. (normal range: 20~50) **NO** Replace Main PCB. (R code – A160, Page 80)



Please check whether a compressor refrigerant is leaked.  
- Test method-  
Please separate a top plate and a cabinet on the right (reference to P61-62)  
→ Action button into general test mode(Refer to p.38) / press button 3 times and operate it for 10minutes  
→ Please measure blue harness current value of 3 harness (blue, red, black) of compressor in 10 minutes. Please check whether current value is low abnormally (normal: more than 0.2A/ when refrigerant is leaked: less than 0.1A)



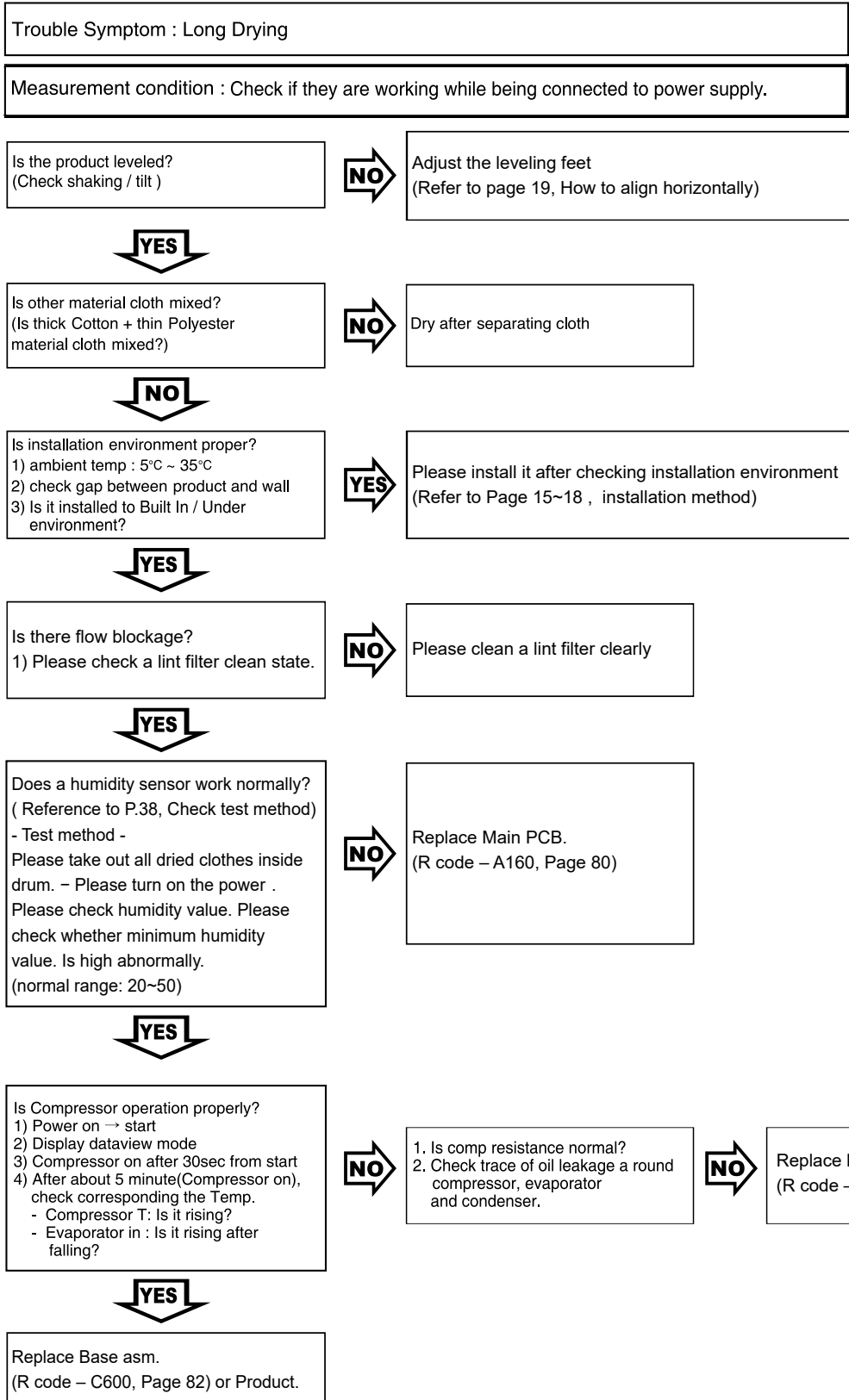
Replace Base asm. (R code – C600, Page 82) or Product.

Check sensor during operation  
- If you press the "EcoHybrid+Anti Crease" button for 3 seconds  
- Turn the Jog Dial in the Data view state to see the data as shown below.  
- Button does not enter when locked  
- Application Model  
: Applies to Touch LED model only

Data view table

No	Course Name	Displayed Data
1	Normal	Bulk Detection Value
2	Heavy Duty	Drainage pump RPM
3	Bulky/Large	Water sensor level
4	Small Load	Evap. Outlet Temperature
5	Towels	Evap. Inlet Temperature
6	Sportswear	Compressor temperature
7	Antibacterial	Humidity value
8	Delicates	Compressor Hz
9	Wool	Motor RPM
10	Perm.Press	Compressor Hidden Error
11	Rack Dry	Motor Hidden Error
12	Heated Dry	Compressor IPM temperature
13	Air Dry	Duct temperature
14	Downloaded	Motor IPM temperature

Test 8



※Check the status of the actions Sensor  
- EcoHybrid + AntiCrease 3 when entering  
Pressing enter. Once again press the same key for three seconds to escape  
- Turn the Jog Dial in data view state data can be checked as shown below.  
- Not to enter the Child lock status.  
- Apply, the model : Only Touch LED model.

Data view table

No	Course Name	Displayed Data
1	Normal	Bulk Detection Value
2	Heavy Duty	Drainage pump RPM
3	Bulky/Large	Water sensor level
4	Small Load	Evap. Outlet Temperature
5	Towels	Evap. Inlet Temperature
6	Sportswear	Compressor temperature
7	Antibacterial	Humidity value
8	Delicates	Compressor Hz
9	Wool	Motor RPM
10	Perm.Press	Compressor Hidden Error
11	Rack Dry	Motor Hidden Error
12	Heated Dry	Compressor IPM temperature
13	Air Dry	Duct temperature
14	Downloaded	Motor IPM temperature

Test 9

Trouble Symptom: Abnormal Noise

Measurement condition : 1) Check if they are working when connected to power supply.  
2) Check shaking / tilt -> Adjust product leveling (Refer to how to leveling, Page 19)

Noise Type : ta ~ ta ~ ta sound  
Check the interference between pipe and Base asm.



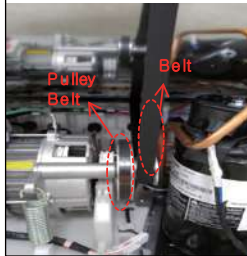
Adjust pipe position to insure minimum 5mm gap with pipe or mold

- \*Check the status of the actions Sensor
- EcoHybrid + AntiCrease 3 when entering Pressing enter. Once again press the same key for three seconds to escape.
- Turn the Jog Dial in data view state data can be checked as shown below.
- Not to enter the Child lock status.
- Apply the model : Only Touch LED model.

Data view table

No	Course Name	Displayed Data
1	Normal	Bulk Detection Value
2	Heavy Duty	Drainage pump RPM
3	Bulky/Large	Water sensor level
4	Small Load	Evap. Outlet Temperature
5	Towels	Evap. Inlet Temperature
6	Sportswear	Compressor temperature
7	Antibacterial	Humidity value
8	Delicates	Compressor Hz
9	Wool	Motor RPM
10	Perm.Press	Compressor Hidden Error
11	Rack Dry	Motor Hidden Error
12	Heated Dry	Compressor IPM temperature
13	Air Dry	Duct temperature

Noise Type : chik - chik sound  
Check the Belt and Pulley Belt.



Is Belt properly assembled to Drum?



Is there a trace of Belt crack?  
- Refer to picture B, page 53

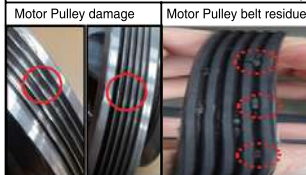


Replace Belt  
(Refer to R code -D100, Page 83)



- 1) Check the Motor Pulley belt (Refer to picture A, page 53)
  - Pulley belt crack damage
  - Remove Pulley belt residue (Refer to Right picture)
  - Replace Pulley belt (Refer to R code -C241, Page 82)
- 2) Check the Motor Pulley
  - Bearing damage noise
  - Pulley crack damage
  - Replace Motor (Refer to R code - C200, Page 82)

Noise type: sss sss similar to sound that writing in pencil (Refer to picture A, page 53)



Noise type: Beek~~ Beek~~  
If Drum nut is assembled loosely, it's possible that drum shaft noise



Is Journal Bearing grease properly Sprayed?  
( Refer to exploded view , Refer to picture C page 53)



Is the washer loosely assembled from Rear cover flat? ( Refer to picture D , page 53)  
\* Tightly assemble.



Replace Journal Bearing  
(R code - D122, Page 83)



Replace Drum.  
(R code - D120, Page 83)

\* Note: The roller noise (dung dung dung) at the initial operation, and pump and water flowing noise during auto cleaning™ are normal noises of the product. If noise of metal materials bumping each other occurs, check if screw is properly locked or if it is properly assembled.

Test 10

Trouble Symptom: Water Leakage

Inspection Method  
 1. Separate Top Plate and Cabinet (Left)  
 2. Power On => Select Cool Air Course, and Start.  
 3. Convert LCD/LED Display to Data View Mode.  
 4. After Start, when the first Pumping is completed, put 1/3 water in Drawer, and pour around Dispenser water discharge hole slowly until "Sump W" value becomes "001" among Data View categories.  
 (When it becomes "001", water supply shall be stopped immediately.)  
 5. Check electric parts , mechanical parts, hose connection in the left bottom and water leakage at the bottom of Base.

Is hose properly connected?  
 -. Check water discharge hose & Over Flow hose connection  
 (Refer to page 22)  
 -. Check fully assembled nozzle hose  
 (Refer to page 53, picture I)  
 Is rubber cap properly connected?  
 (Refer to page 53, picture G)



Can you verify Sump W "001" without water leakage at the bottom of Base  
 -. Refer to Data view mode no.5 if Base assembly is cracked, Replace Base, Cabinet (R code – C140, Page 60)



Is Water Level Sensor Housing properly assembled?  
 ( Refer to picture E , page 53)  
 -. Water Level Sensor Housing are assembled the same height.  
 (Refer to page 53, picture H)



Properly assemble Housing



Replace Main PCB.(R code – A160, Page 80)



Is there water leakage of C/Valve during Self Cleaning



Replace Control Valve  
 (Refer to picture F, page 53 / page 67)



Is there water leakage in at least 1 place among 3 nozzle during Self Cleaning?  
 ※ Self cleaning method  
 1) Pouring the water in hose attached in dispenser until Sump water level "1"  
 -. Refer to Date view mode no.5  
 2) After "1" displaying , Self Cleaning Time is starting



1. Tightly Assemble nozzle hose.  
 (Refer to page 53, picture I)  
 2. Nozzle cracked?  
 Replace Nozzle (R code – C 311, Page 82)



Is pumping properly performed with the pump activation sound?



Check pump assembly status  
 -. Seal missing  
 -. Whether pump is properly assembled  
 -. Pump Cover assembly status (Gap, Screw missing, etc.)  
 (Refer to page 65~66 )



Replace Base asm.  
 (R code – C600, Page 82)

- ※ Check the status of the actions Sensor
- EcoHybrid + AntiCrease 3 when entering Pressing enter. Once again press the same key for three seconds to escape.
- Turn the Jog Dial in data view state data can be checked as shown below.
- Not to enter the Child lock status.
- Apply the model : Only Touch LED model.

Data view table

No	Course Name	Displayed Data
1	Normal	Bulk Detection Value
2	Heavy Duty	Drainage pump RPM
3	Bulky/Large	Water sensor level
4	Small Load	Evap. Outlet Temperature
5	Towels	Evap. Inlet Temperature
6	Sportswear	Compressor temperature
7	Antibacterial	Humidity value
8	Delicates	Compressor Hz
9	Wool	Motor RPM
10	Perm.Press	Compressor Hidden Error
11	Rack Dry	Motor Hidden Error
12	Heated Dry	Compressor IPM temperature
13	Air Dry	Duct temperature
14	Downloaded	Motor IPM temperature

Test 11

Trouble Symptom: Abnormal Empty water

Inspection Method

1. Water container is full? Check the Water container
2. Separate Top plate and side cabinet (Left, Right)
3. Make sure to check the all of hose.  
ex) Defect type: disassembled ,twisted or torn hose.  
This type occur not only 'Empty water error' but also 'water leakage'.
4. After Start, when the first Pumping is completed, put 1/3 water in Drawer, and pour around Dispenser water discharge hole slowly until "Sump W" value becomes "001" among Data View categories.  
(When it becomes "001", water supply shall be stopped immediately.)

Disassemble dryer.  
(Refer to page 61~67)



Is C/valve restricted?  
Check the C/valve disk and restricted mold structure.  
(Don't modify mold structure.)



Replace C/valve  
(Refer to page 82/R code- C313)



Check the residue in C/valve  
-. Clean the C/valve (Refer to page 67)  
After Checking residue in C/valve and Cleaning, Don't alarm empty water?



Is Pump restricted?  
Check the Base Pump and Pump cover  
(Refer to page 65~66)



Replace Pump assembly  
(Refer to page 65, 82 / R code 250)



Check the Lint in Pump cover  
-. Clean the Pump and the Pump cover (Refer to right picture )  
After Checking residue in Pump assembly and Cleaning, Don't alarm empty water?



Replace Base asm.  
(R code – C600, Page 82)

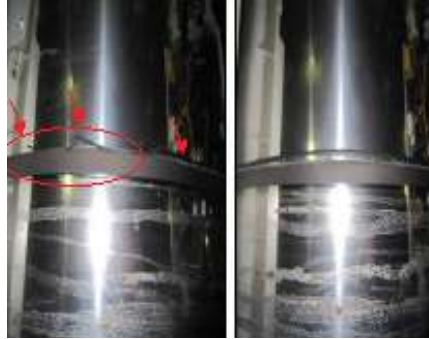


Note: After cleaning the C/valve and Pump assembly, Clean the Evaporator.  
(Refer to page 65~68, Clean the Evaporator and Base lint by water.)

■ Reference picture



Picture A



Picture B



Picture C



Picture D



Picture E



Picture F



Picture G



Picture H



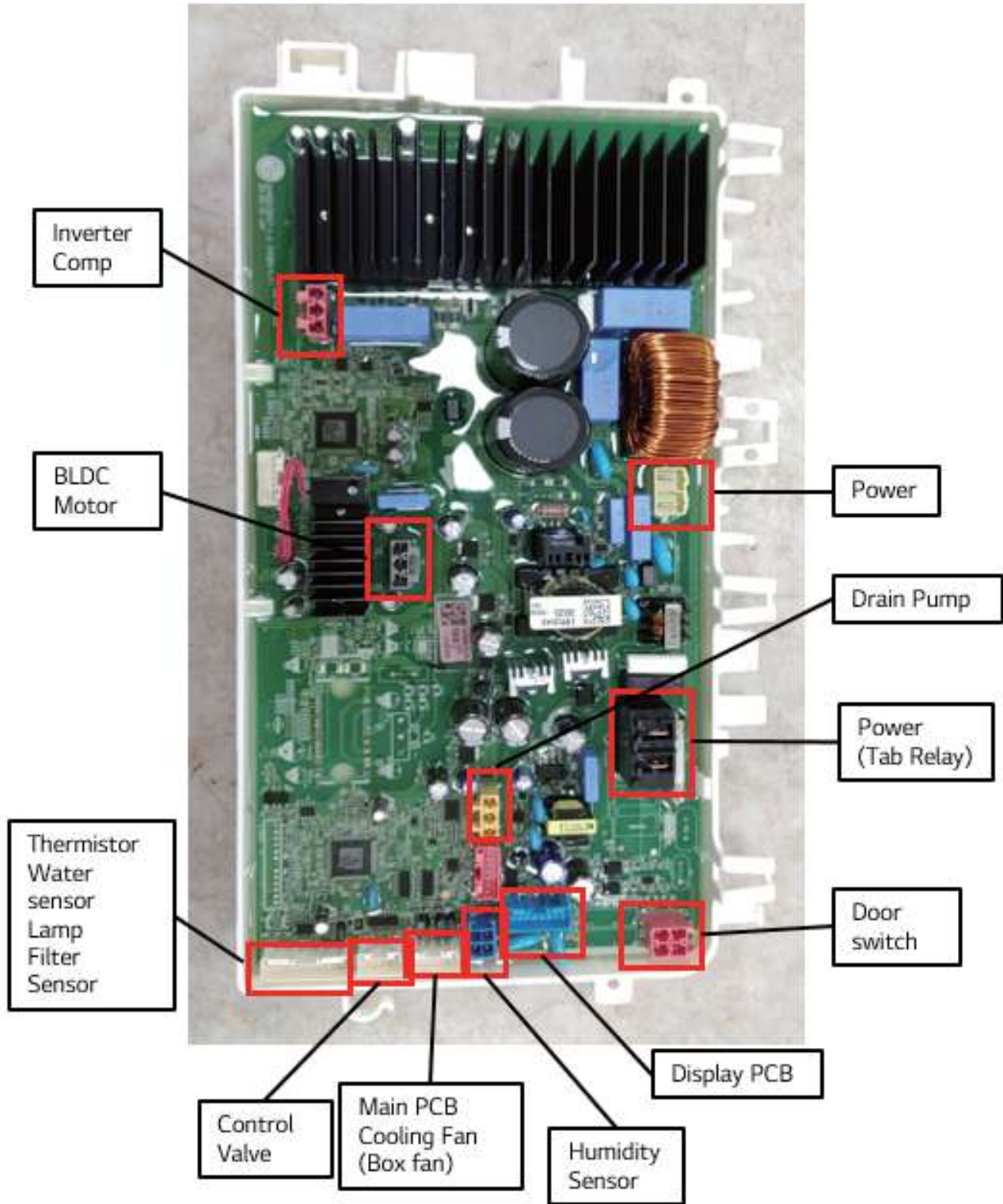
Picture I



Picture J

■ PCB Layout (Main)

-. P/N : EBR89088904



## SMART FUNCTIONS

### LG ThinQ Application

The **LG ThinQ** application allows you to communicate with the appliance using a smartphone.

#### LG ThinQ Application Features

- **Dryer Cycle**
  - Download new and specialized cycles that are not included in the standard cycles on the appliance. Appliances that have been successfully connected to the **LG ThinQ** application can download a variety of specialty cycles specific to the appliance. Once cycle download is completed in the appliance, the appliance keeps the downloaded cycle until a new cycle is downloaded.

#### NOTE

- Only one cycle can be stored on the appliance at a time.

- **Energy Monitoring**<sup>†</sup>

- This feature keeps track of how the dryer's power consumption is affected by selected drying cycles and options.

- **Remote Control**

- Control the appliance remotely or check to see how much time is left in the cycle from the **LG ThinQ** application.

#### NOTE

- Once the remote control feature is enabled, you can start a cycle from the **LG ThinQ** application. If the cycle is not started, the appliance will wait to start the cycle until the appliance is turned off remotely or the remote control feature is disabled.
- If the door is open, the remote control feature is disabled.

- **Push Messages**

- When the cycle is complete or the appliance has problems, you will receive a push message.

- **Smart Diagnosis**<sup>™</sup>

- This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use.

- **Settings**

- Allows you to set various options on the appliance and in the application.

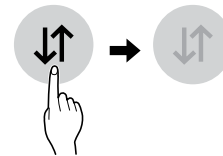
† This feature is only available on some models.

#### NOTE

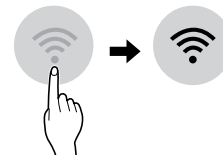
- If you change your wireless router, Internet service provider, or password, delete the connected appliance from the **LG ThinQ** application and connect it again.
- This information is current at the time of publication. The application is subject to change for product improvement purposes without notice to users.

### Before Using LG ThinQ Application

- 1 Check the distance between the appliance and the wireless router (Wi-Fi network).
  - If the appliance is too far from the router, the signal becomes weak. It may take a long time to register or installation may fail.
- 2 Turn off the **Mobile data** or **Cellular Data** on your smartphone.



- 3 Connect your smartphone to the wireless router.



#### NOTE

- To verify the Wi-Fi connection, check that the Wi-Fi icon on the control panel is lit.
- The appliance supports 2.4 GHz Wi-Fi networks only. To check your network frequency, contact your Internet service provider or refer to your wireless router manual.

**NOTE**

- **LG ThinQ** is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- The surrounding wireless environment can make the wireless network service run slowly.
- If the appliance is having trouble connecting to the Wi-Fi network, it may be too far from the router. Purchase a Wi-Fi repeater (range extender) to improve the Wi-Fi signal strength.
- The network connection may not work properly depending on the Internet service provider.
- The Wi-Fi may not connect or the connection may be interrupted because of the home network environment.
- If the appliance cannot be registered due to problems with the wireless signal transmission, unplug the appliance and wait about a minute before trying again.
- If the firewall on your wireless router is enabled, disable the firewall or add an exception to it.
- The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)
- Smartphone user interface (UI) may vary depending on the mobile operating system (OS) and the manufacturer.
- If the security protocol of the router is set to **WEP**, network setup may fail. Change the security protocol (**WPA2** is recommended), and connect the product again.

## Installing the LG ThinQ Application

Search for the **LG ThinQ** application from the Google Play Store or Apple App Store on a smartphone. Follow instructions to download and install the application.

## Using the Appliance Remotely

### Remote Start

Use a smartphone to control the appliance remotely. You can also monitor the cycle operation so you know how much time is left in the cycle.

### Using Remote Start

- 1 Put the laundry into the drum and close the dryer door.

- 2 Press the **Power** button.

- 3 Press and hold the **Remote Start** button for 3 seconds to enable the remote control function.

- 4 Start a cycle from the **LG ThinQ** application on your smartphone.

**NOTE**

- Once the function is enabled, you can only start a cycle from the **LG ThinQ** smartphone application. If the cycle is not started, the application will wait to start the cycle until it is turned off remotely from the application or this function is disabled.
- If the door has been opened, you cannot start a cycle remotely.

### Disabling Remote Start Manually

When the function is activated, press and hold the **Remote Start** button for 3 seconds.

### Download Cycle

You can download new and specialized cycles that are not included in the standard cycles on the appliance.

Appliances that have been successfully connected to a Wi-Fi network can download a variety of specialty cycles specific to the appliance.

Once cycle download is completed in the appliance, the product keeps the downloaded cycle until a new cycle is downloaded.

**NOTE**

- Only one downloaded cycle can be stored on the appliance at a time.

## Wireless LAN Module Specifications

<b>Frequency Range</b>	2412 - 2462 MHz
<b>Output Power (Max)</b>	< 30 dBm

### FCC Notice

The following notice covers the transmitter module contained in this product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



This equipment should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

### Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

### Smart Diagnosis™ Function

This feature is only available on models with the  or  logo.

Use this feature to help you diagnose and solve problems with your appliance.

#### NOTE

- For reasons not attributable to LGE's negligence, the service may not operate due to external factors such as, but not limited to, Wi-Fi unavailability, Wi-Fi disconnection, local app store policy, or app unavailability.
- The feature may be subject to change without prior notice and may have a different form depending on where you are located.

### Using LG ThinQ to Diagnose Issues

If you experience a problem with your Wi-Fi equipped appliance, it can transmit troubleshooting data to a smartphone using the **LG ThinQ** application.



- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions provided in the **LG ThinQ** application.

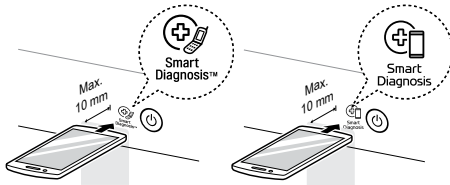
### Using Audible Diagnosis to Diagnose Issues

Follow the instructions below to use the audible diagnosis method.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow

the instructions for audible diagnosis provided in the **LG ThinQ** application.

- 1 Press the **Power** button to turn on the appliance.
  - Do not press any other buttons.
- 2 Hold the mouthpiece of your phone in front of the  or  logo.



- 3 Press and hold the **More Time** button for 3 seconds or longer while continuing to hold your phone to the logo.
- 4 Keep the phone in place until the tone transmission has finished. The display will count down the time. Once the countdown is over and the tones have stopped, the diagnosis will be displayed in the application.

---

**NOTE**

- For best results, do not move the phone while the tones are being transmitted.
-

**⚠ CAUTION**

Please follow safety procedure and wear safety equipment in order to prevent personal accidents such as long sleeved-gloves, protectives glasses, etc.

Unless follow safety procedure and wear safety equipment, It will cause the cause of ac accident.



- Door Switch -



- Rear Cover -

1. Door Swtich - Cabinet Cover



Inner button

2. Door Swtich - Door

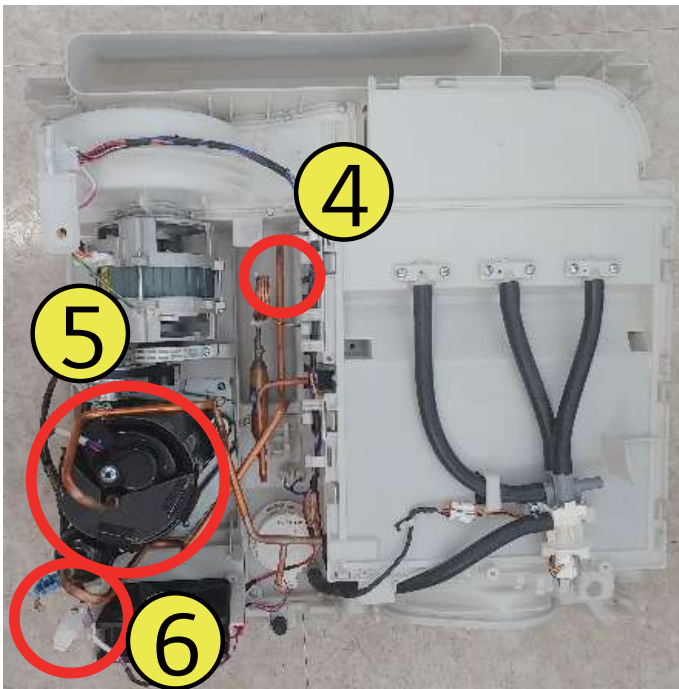


Hook

3. Gas Label – Rear Cover (Only Europe Label)



F - gas Label



- Base Assembly -

4. Thermistor



No thermistor  
indicated  
location

5. Compressor Label  
- Take off the Comp Cover



For R134a

6. Harness Color



Blue and white  
Harness

**⚠ CAUTION**

Please follow safety procedure and wear safety equipment in order to prevent personal accidents such as long sleeved-gloves, protectives glasses, etc.

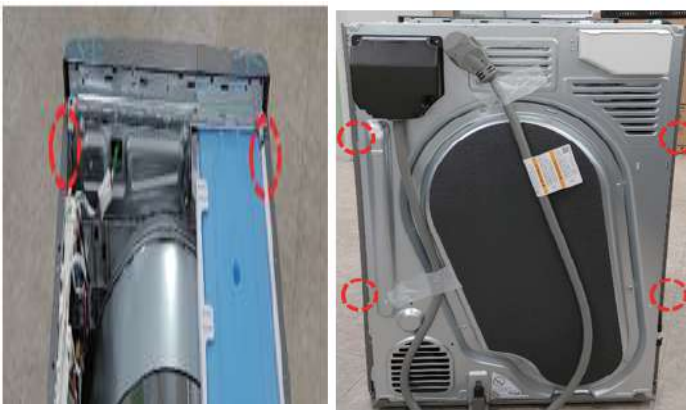
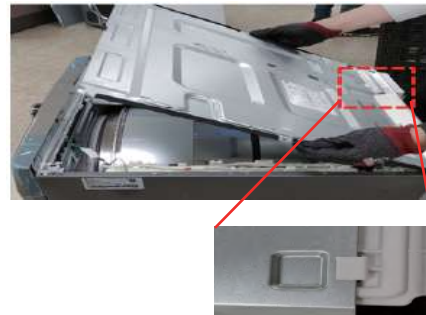
Unless follow safety procedure and wear safety equipment, It will cause the cause of ac accident.



1. Please disassemble top plate by unscrewing 2 screws on the rear of the dryer.



2. Please loosen the 6 screws on the Safety Cover. And then please tilt the Safety Cover and disassemble it.



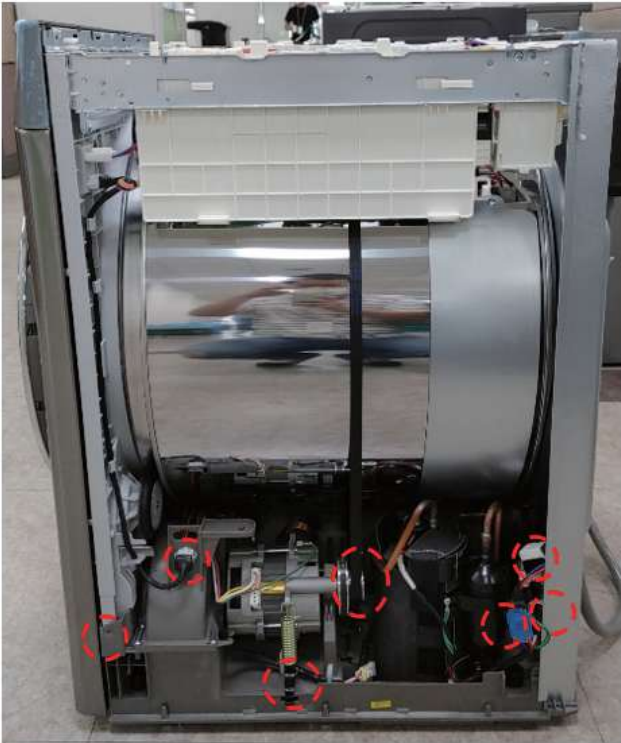
3. Please loosen the 2 screws on the top Side Cabinet(Left, Right)
4. Please loosen the 4 screws on the both Side Cabinet(Left, Right)



4. Please remove 2 screws on the top of the cabinet and 2 screws behind cabinet and separate cabinet. (The same left/ right), at this time, pull it up and towards your body and separate it.



- 5.-1. Please remove 2 screws connected to Door Hinge  
(At this time, Please be careful because the door could be fallen.)
- 5-2. Please separate the Door
- 5-3. Please remove 6 screws connected to Cabinet Cover Door.
- 5-4. Please remove 2 screws on the top of the cabinet cover on the left/right.
- 5-5. Please separate Cabinet Cover



- 6-1. Please pull a motor Spring Holder and separate it.
- 6-2. Please after lifting a motor up and removing big Belt Tension and separate Pulley.
- 6-3. Please separate a housing marked in the picture ground wire (green).



- 7-1. Please remove 5 screws on the bottom of the Rear Cover



8-1. Please separate both hoses from a drainage hose connector.



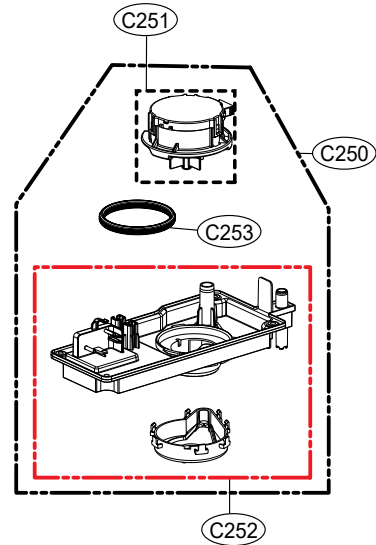
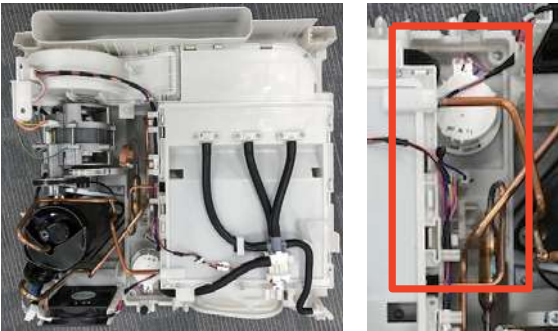
9. Please separate Rear Cover and Drum.

10. After taking action problems, assemble products in reverse order.

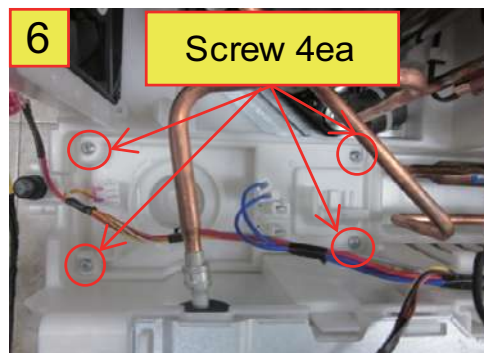
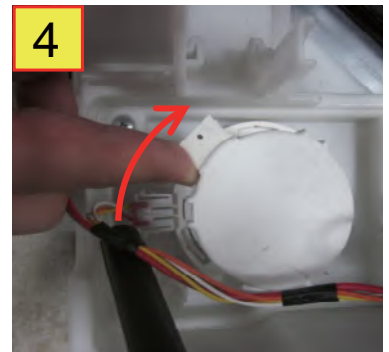
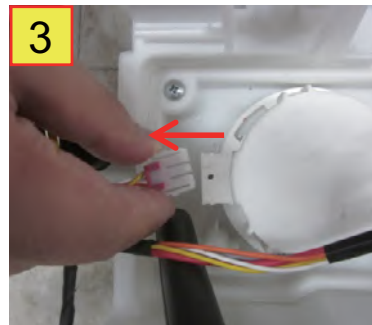
### Replace "Pump Cover" (1/2)

#### 1. Disassemble Base ASM

SVC Number: C252



#### 2. Disassemble Pump Assembly.



## Replace "Pump cover" (2/2)

### 3. Reassemble the Pump Assembly

1) Check if rubber ring is attached.



2) Put the Drain motor on the New Pump cover



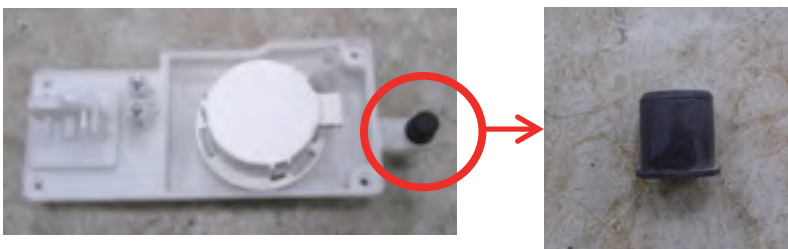
3) Press down the Drain motor.



4) Turn the Drain motor counter clockwise.



5) Assemble the rubber cap.

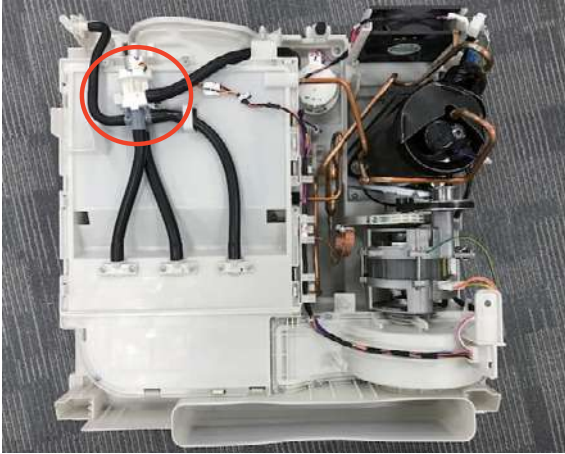


6) Assemble in reverse order to Base Assembly.

## Clean the “Control valve”

### 1. Disassemble the dryer. (Base Assembly)

1. Disassemble Base ASM

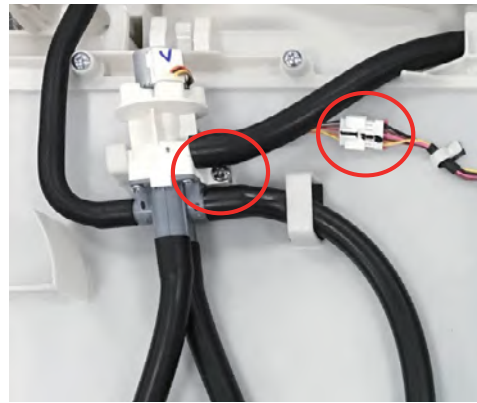


### 2. Disassemble the “Control valve”

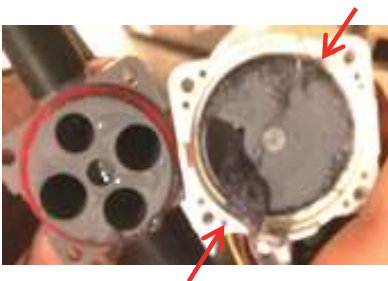
- 1) Disassemble hose(5ea)



- 2) Disassemble screw and housing.



### 3. Clean the “Control valve”



**Clean the Evaporator and Base lint by water.**

1) Wash by water and brush.

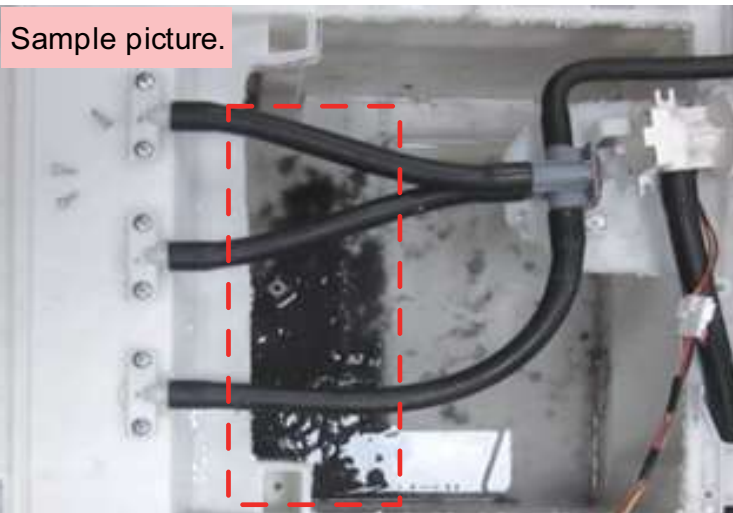


2) Be careful electric parts by splash water.



3) Clean the Base under the Evaporator by water.

Sample picture.



## Connecting the drain hose

1) Check drain hose connector



2) Remove the upper water tank hose



3) After removing the rubber cap at the bottom of the T-connector.



4) Connect drain hose to where rubber cap is removed (Final connection picture)



Connecting the drain hose

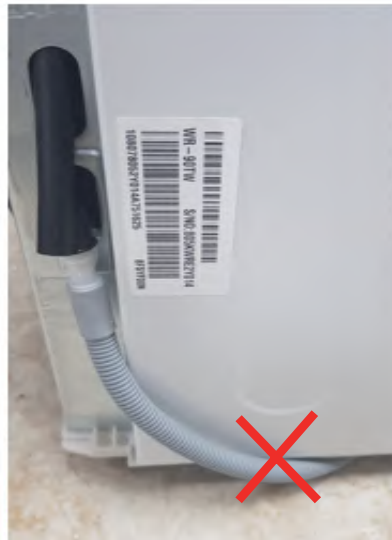


Residual water outlet  
(Drain hose connection prohibited)

Hose connected to water tank  
(Drain hose connection prohibited)

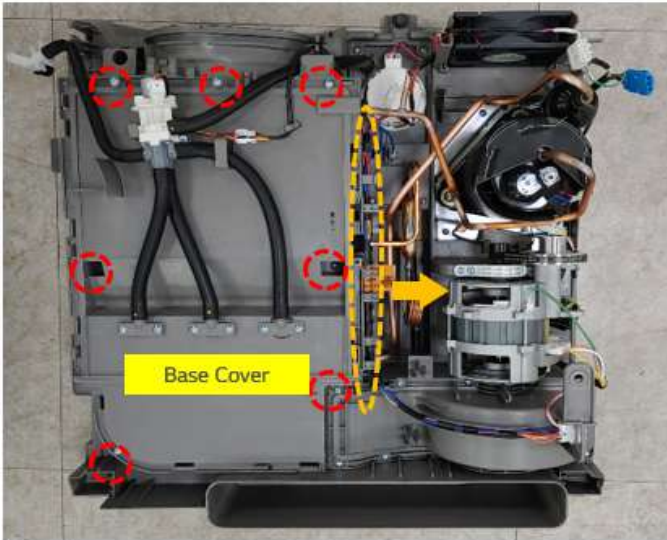


Normal connection location

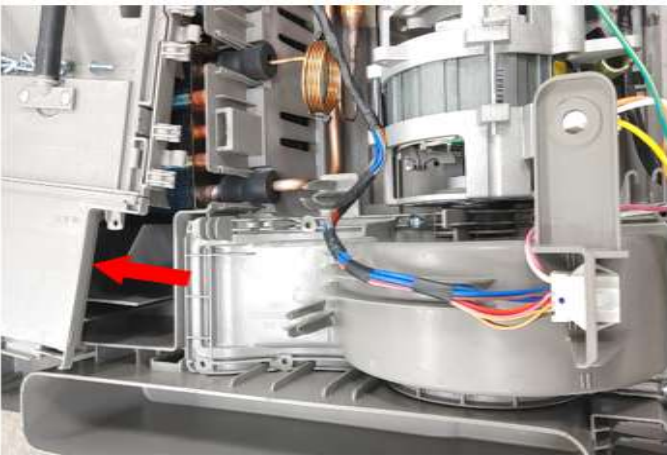


Drain hose connection incorrectly.

## Replace Motor method

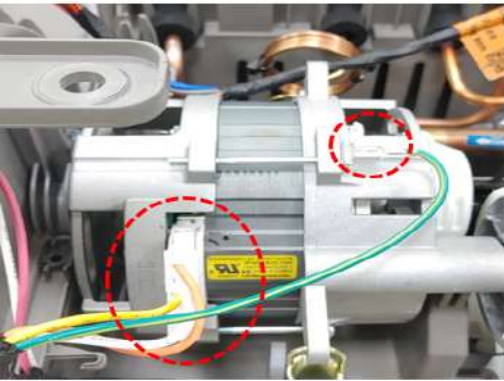
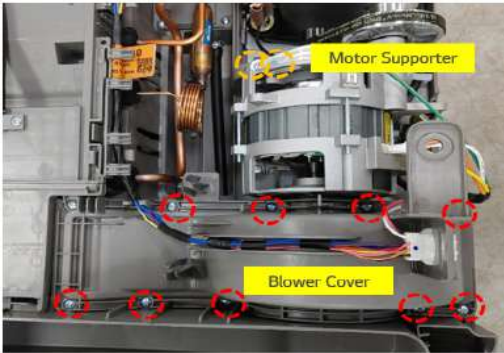


- 1) Please loosen the 7 screws on Blower Cover  
Please remove the harness  
Please release Base Cover Hook



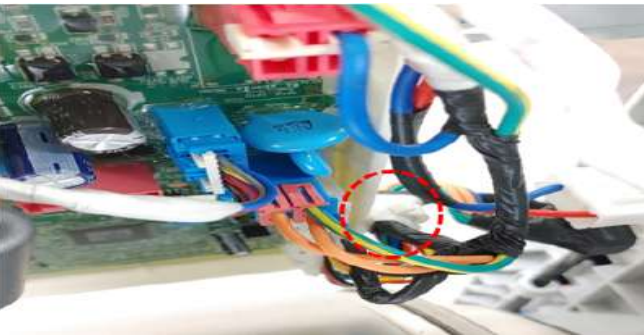
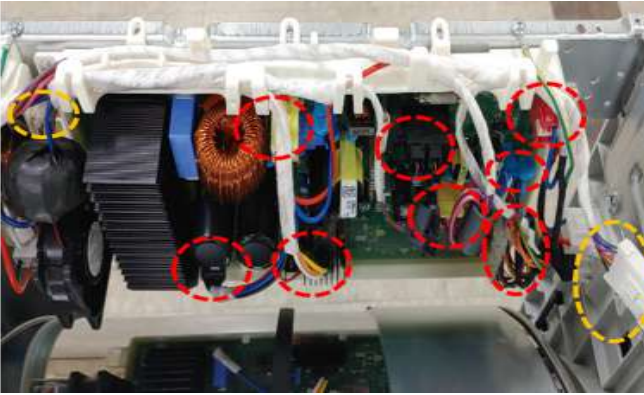
- 2) Please transfer the Base Cover to the side a little for loosening Blower Cover screw.

## Replace Motor method



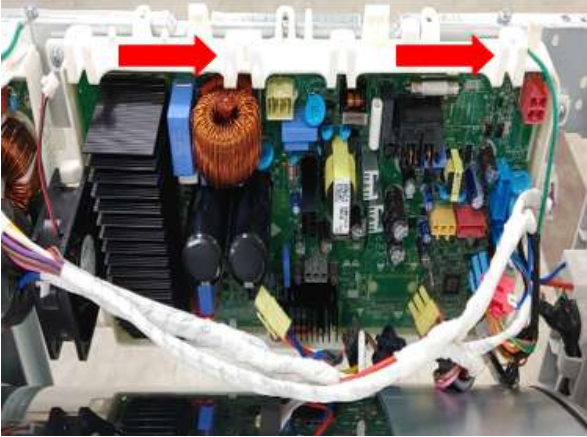
- 3) Please loosen the 11 screws on Blower Cover and Motor Supporter.  
\*Blower Cover: 9 screws / Motor Supporter: 2screws
- 4) Please separate Motor Supporter.
- 5) Please transfer the Base Cover to the side a little for loosening Blower Cover screw.
- 6) Please separate the Blower Cover.
- 7) Please separate Motor.

## Replace Main PCB

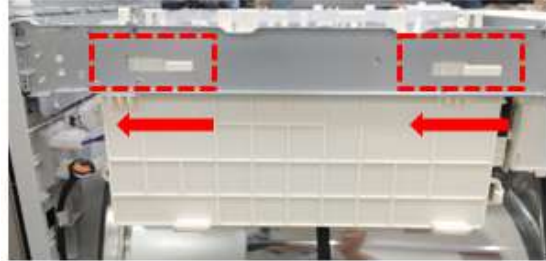


- 1) Please separate display PCB Housing.  
Please separate Main PCB Cooling Fan Housing.  
Please separate 11 Housing and Harness from the Main PCB.
- 2) Please separate Harness from the Main PCB Hook.
- 3) Please loosen the 2 screws on the Main PCB.

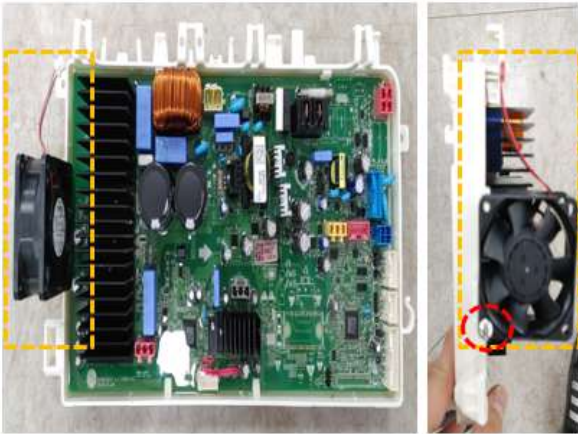
## Replace Main PCB



- 4) Please slide and then separate the Main PCB.



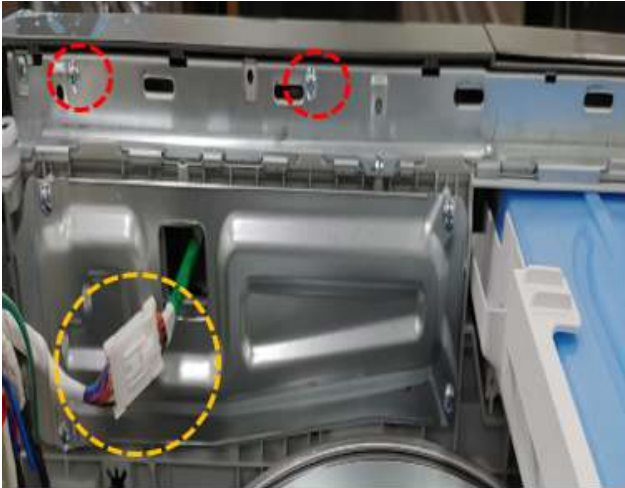
The picture on the other side of main PCB.



- 5) Please loosen the 1 screws on the Main PCB Cooling Fan.

\*When reassembling the cooling fan, please pay attention to the direction. The direction on which the label is attached is the front of the product.

## Replace Control Panel ASM (Display PCB)



- 1) Please separate display PCB Housing.
- 2) Please loosen 2 screws.

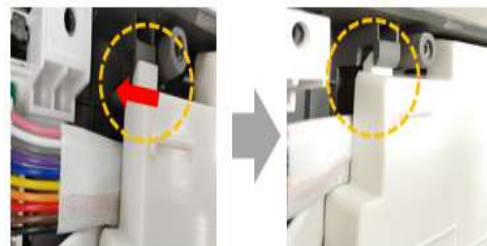


- 3) Please loosen 2 screws.
- 4) Please separate Control Panel Assembly.

## Replace Control Panel ASM (Display PCB)

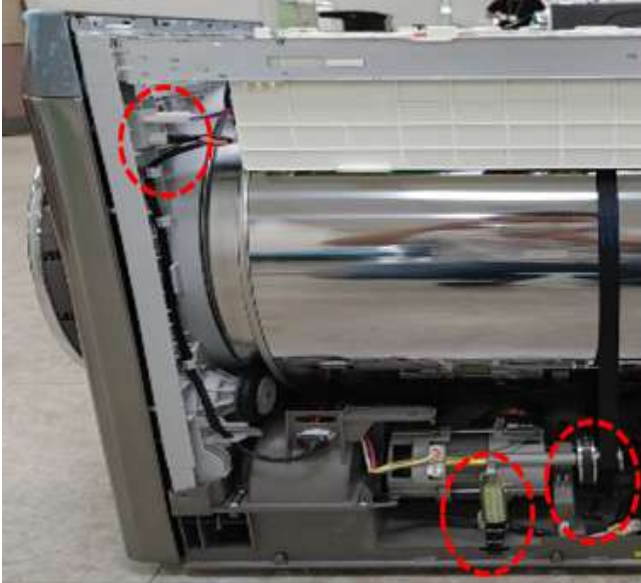


- 1) Please loosen 4 screws.
- 2) Please separate 4 hooks.

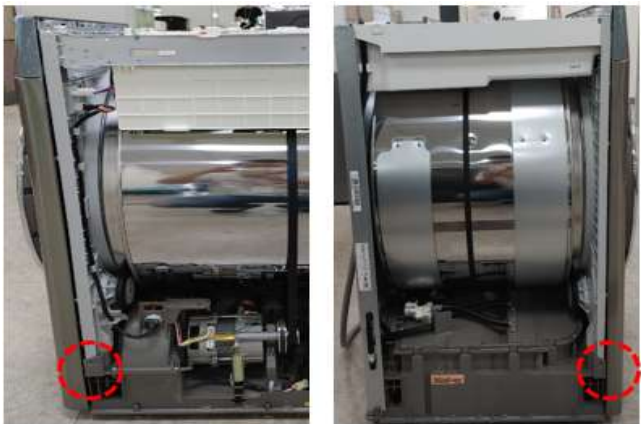
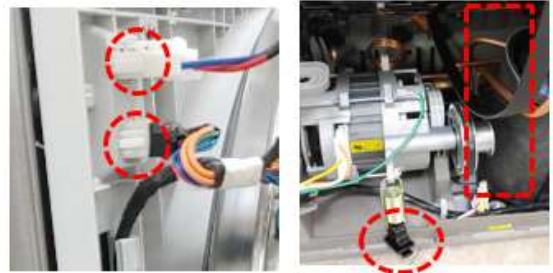


\*When reassembling the display PCB, please pay attention to the tightening status. Please push.

## Replace Cabinet Cover ASM



- 1) Please separate 2 Housing.
- 2) Please disassemble the spring holder.
- 3) Please loosen the belt on the pulley.



- 4) Please loosen the screw each 1point (both side)

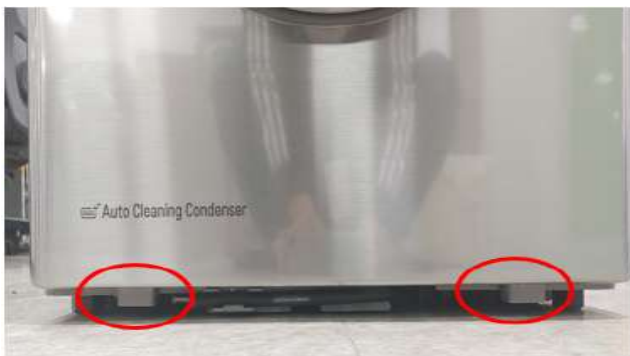
## Replace Cabinet Cover ASM



5) Please loosen 2 screws



6) Please loosen the screw each 1point (both side)



\* When reassembling the Cabinet Cover Assembly, please pay attention to tightening status.

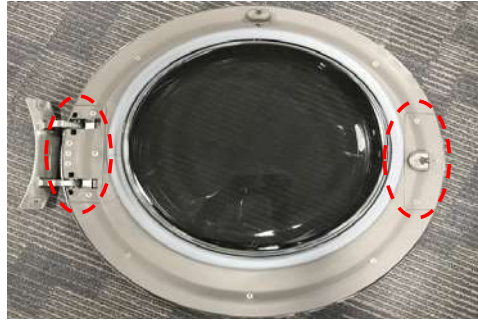


Reversing the Door.

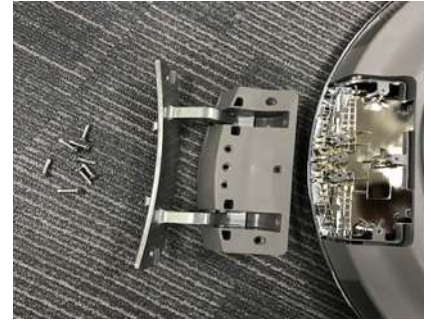
① Remove 2 hinge screws and disassemble the door



② Remove screws each on door hinge (8ea) and locker (4ea) parts



③ Disassemble each the hinge and locker parts



④ Change the position of the hinge and locker parts and tighten the screws.



⑤ Remove the four screws on the latch section and change the position to join the latches.




⑥ Tighten the hinge and the latch screw.




Please check driver's torque before reverse dryer's door  
(Not Impact Driver)



Driver mode (Bosch 25Steps)	Torque(kgf.cm)	Inner Case Screw (Latch Hook)	Inner Case Screw	Hinge Screw
1	-			
2	-			
3	0.1			
4	0.1			
5	0.2			
6	0.8			
7	1.6			
8	3.0			
9	4.4			
10	5.0			
11	6.7			
12	9.8			
13	10.8			
14	12.4			
15	16.3			
16	17.2			
17	18.7			
18	20.0			
19	21.1			
20	20.1			
21	22.2			
22	21.8			
23	22.8			
24	21.5			
25	25.1			

  
 Inner Case Screw  
(Latch Hook)

  
 Inner Case Screw

  
 Hinge Screw

Can loose

Wear(Boss)

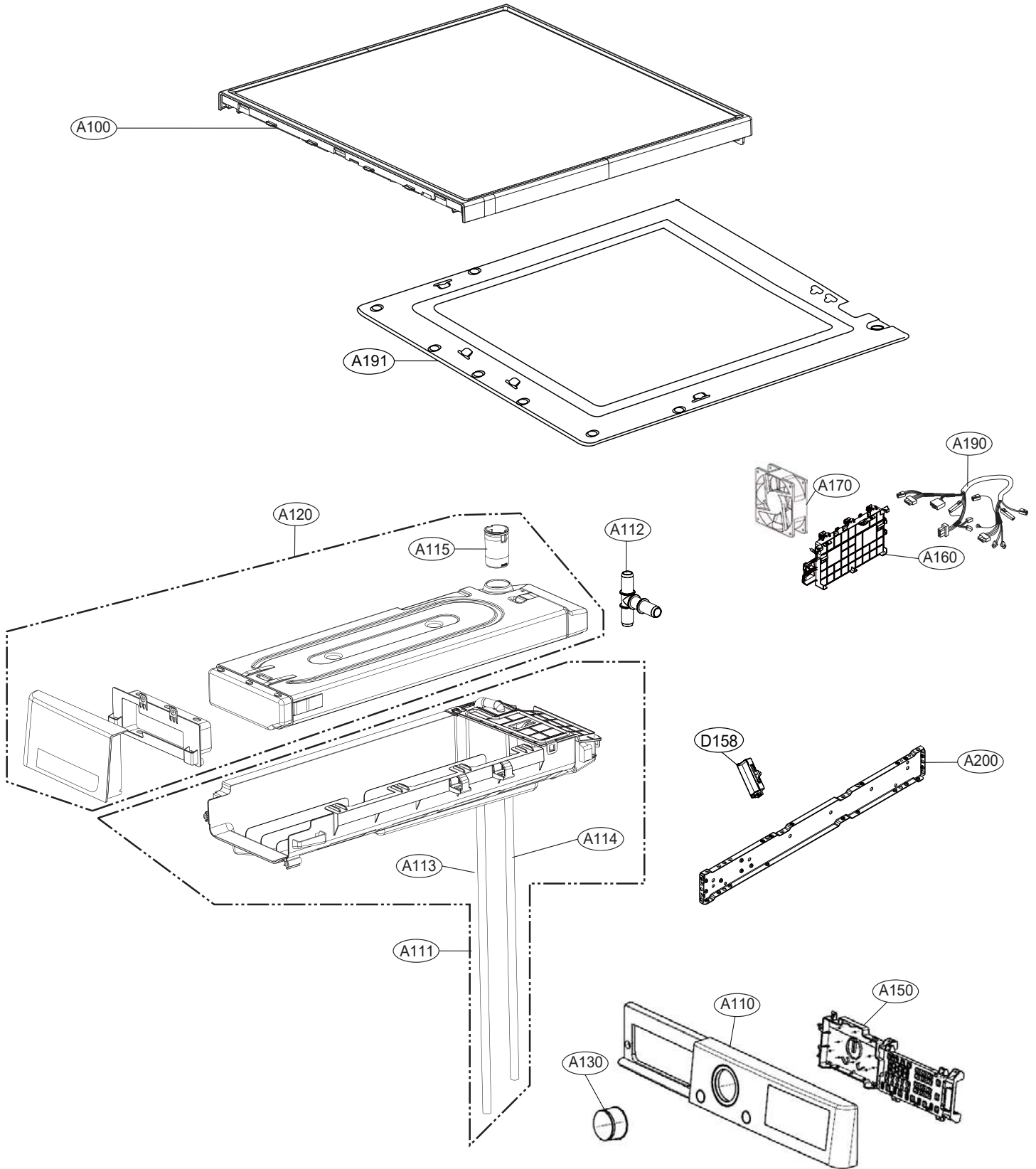
Can loose

Wear(Boss)

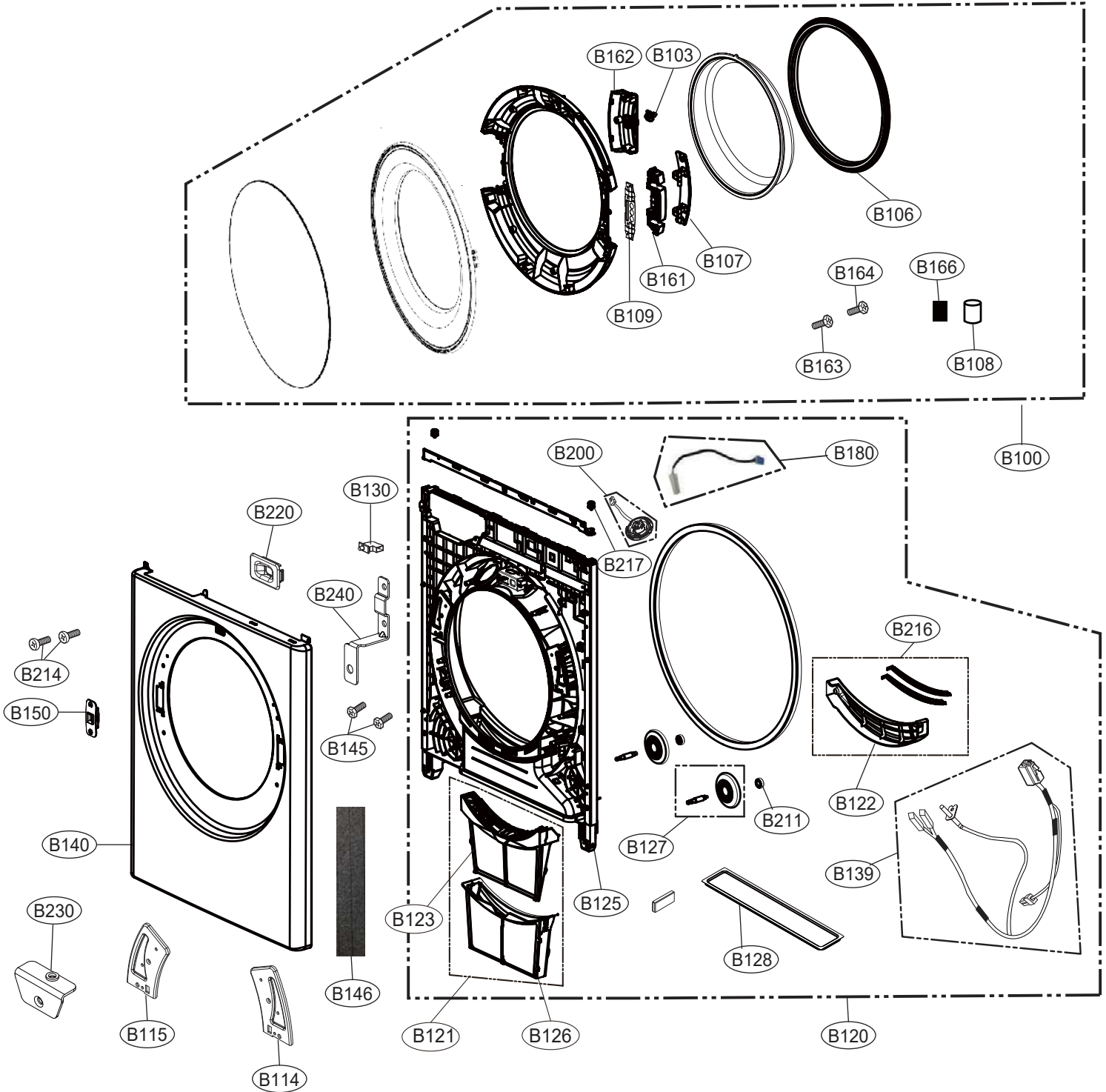
Can loose

Electric screwdriver in 25 steps mode  
There is no wear in normal use.  
But When screw-driver used without  
strong adhesion, Screw can wear.

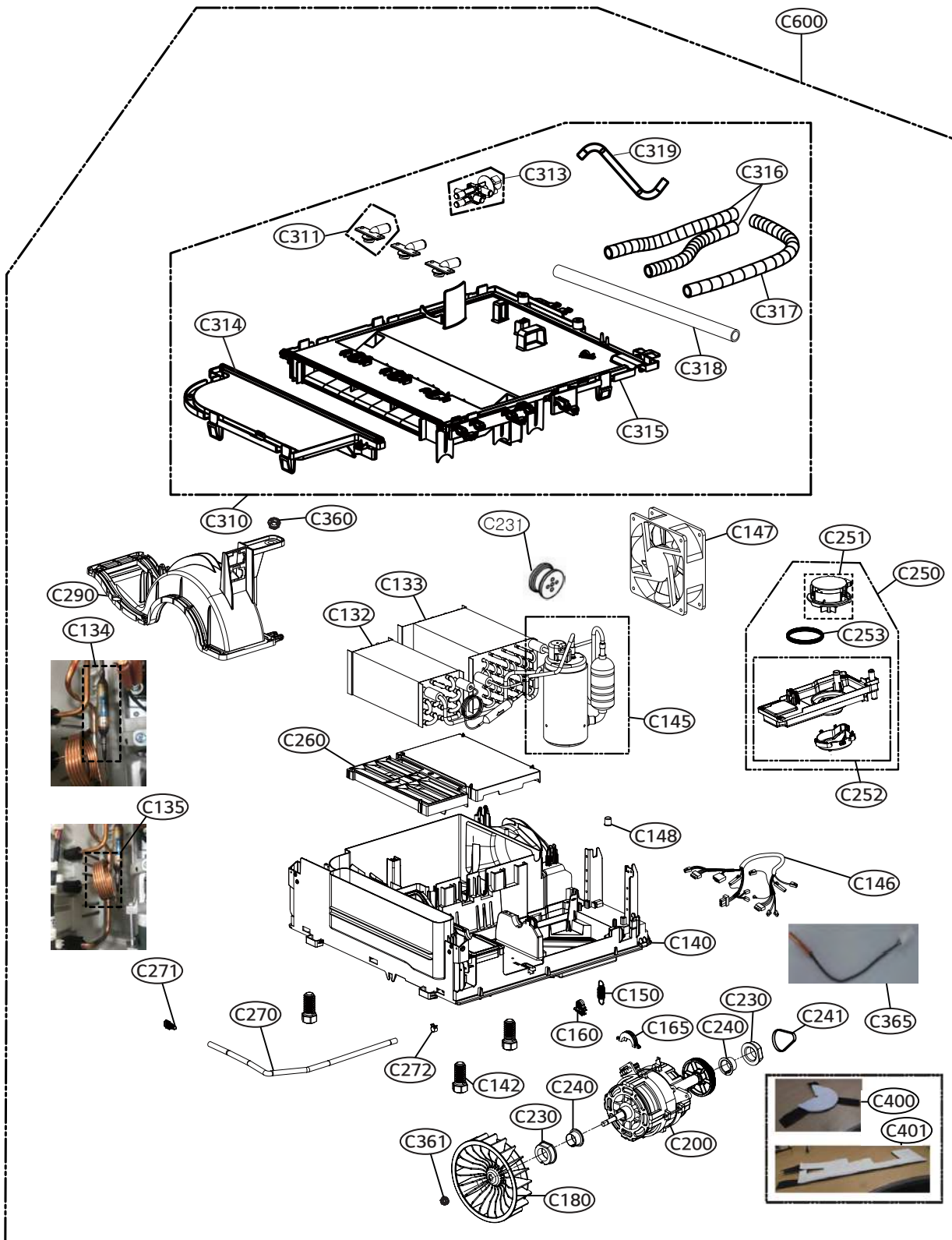
● Control Panel & Top plate Assembly



● Cabinet Cover & Door Assembly



● Base & Motor Assembly



● Back Cover & Drum Assembly

