SAMSUNG

WASHING MACHINE DRUM TYPE

Basic Model :	**WF45R6100AP/US (WF6000R)**	
Model Name :	**WF45R6100AP** **WF45R6100AC** **WF45R6300AW** **WF45R6300AC (WF6000R)** **WF45T6200AW**	**WF45R6100AW** **WF45R6300AP** **WF45R6300AV** **WF45R6100AV**
Model Code :	**WF45R6100AP/US** **WF45R6100AC/US** **WF45R6300AW/US** **WF45R6300AC/US (WF6000R)** **WF45T6200AW/US**	**WF45R6100AW/US** **WF45R6300AP/US** **WF45R6300AV/US** **WF45R6100AV/US**

SERVICE Manual

WASHING MACHINE (DRUM)

CONTENTS

CONTENTS

1. SAFETY INSTRUCTIONS

1-1. SAFETY INSTRUCTIONS FOR SERVICE ENGINEERS

► Be sure to observe the following instructions to operate the product correctly and safely to prevent possible accidents and hazards while servicing.

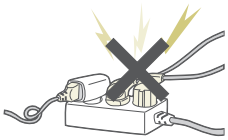
► Two types of safety symbols, Warning and Caution, are used in the safety instructions.

⚠ WARNING	**Hazards or unsafe practices that may result in severe personal injury or death.**
⚠ CAUTION	**Hazards or unsafe practices that may result in minor personal injury or property damage.**

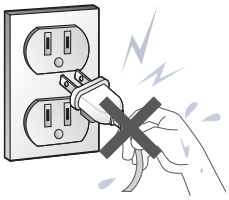
⚠ WARNING BEFORE SERVICING

- (When servicing electrical parts or harnesses) Make sure to disconnect the power plug before servicing.
  √ Failing to do so may result in a risk of electric shock.

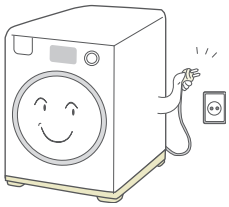
- Do not allow consumers to connect several appliances to a single power outlet at the same time.
  √ There is a risk of fire due to overheating.



- When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet.
  √ Failing to do so may damage the plug and result in fire or electric shock.



- When the washing machine is not being used, make sure to disconnect the power plug from the power outlet.
  √ Failing to do so may result in electric shock or fire due to lightning.

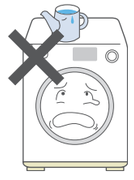


- Do not place or use gasoline, thinners, alcohol, or other flammable or explosive substances near the washing machine.
  √ There is a risk of explosion and fire caused from electric sparks.

⚠ CAUTION BEFORE SERVICING

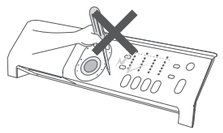
- Do not sprinkle water onto the washing machine directly when cleaning it.
  - √ This may result in electric shock or fire, and damage components. ,may shorten the product lifetime

- Do not place any containers with water on the washing machine.
  - √ If the water is spilled, it may result in electric shock or fire. This will also shorten the product lifetime.



- Do not install the washing machine in a location exposed to snow or rain.
  - √ This may result in electric shock or fire, and shorten the product lifetime.

- Do not press a control button using a sharp tool or object.
  - √ This may result in electric shock or damage to the product.



⚠ CAUTION WHILE SERVICING

- When wiring a harness, make sure to seal it completely so no liquid can enter.
  - √ Make sure that make sure that connections are secure and will not break when force is applied.

- Check if there is any residue that shows that liquid entered into electric parts or harnesses.
  - √ If any liquid has entered into a part, replace it or completely remove any remaining moisture from it.

- If you need to place the washing machine on its back or on its side, place a blanket on the floor and lay it down carefully on the blanket.
  - √ Do not lay it down on its front. This may result in cosmetic damages and may also damage parts inside the tub.

⚠ WARNING WHILE SERVICING

- Check if the power plug and outlet are damaged. If the plug is damaged, replace it. If the outlet is damaged , have the customer call a licensed electrician to repair it.
  - √ Failing to do so may result in electric shock or fire.

- Completely remove any dust or foreign material from the housing, wiring and connection parts.
  - √ This will prevent a risk of fire and electrical hazard.

- When connecting wires, make sure to connect them using the relevant connectors and check that they are connected properly.
  - √ Use of tape instead of connectors may cause fire.

- Make sure to discharge the PBA power terminals before starting the service.
  - √ Failing to do so may result in a high voltage electric shock.

- When replacing the heater, make sure to fasten the nut after ensuring that it is inserted into the bracket-heater.
  - √ If not inserted into the bracket-heater, it touches the drum it may cause noise and electric leakage

⚠ WARNING AFTER SERVICING

- Check the wiring.
  - √ Make sure that wires and wire harness do not make contact with moving parts or sharp edges.

- Check for any water leakage.
  - √ Run a test cycle and confirm that there is no water leaking from underneath and/or from hoses.

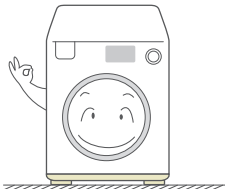
- Do not allow consumers to repair or service any part of the washing machine themselves.
  - √ This may result in personal injury and shorten the product life.

⚠ CAUTION AFTER SERVICING

- Check the assembled status of the parts.
  √ Now is a good time to inspect your work. Review all connections and wiring, including mounting of hardware.

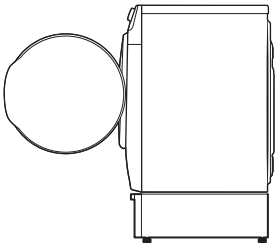
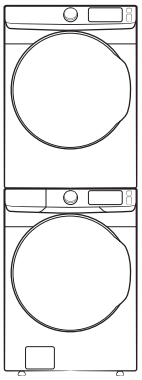
- Check the insulation resistance.
  √ Disconnect the power cord from the power outlet and measure the insulation resistance between the power plug and the grounding wire of the washing machine. The value must be greater than 10MΩ.

- Make sure that the washing machine is leveled. Press down on each corner of the washer and make sure that there is no movement. If movement is present adjust the leg height.
  By doing this now will reduce for the need of customer dissatisfaction and redo call.
  √ Vibrations can shorten the lifetime of the product.

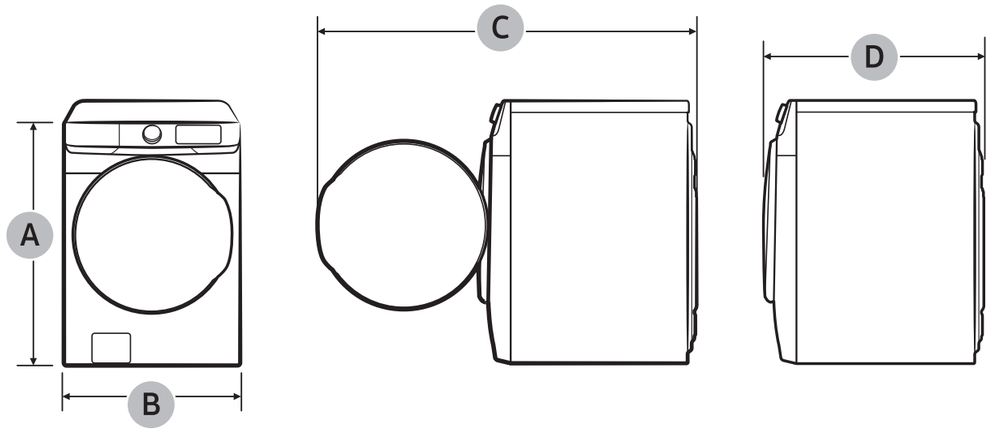


2. FEATURES AND SPECIFICATIONS

2-1. FEATURES

Features	Description
Smart Control	• Samsung's innovative Smart Control technology enables you to control your washer through personal technologies such as smart phones. You don't have to be on standby until the cycle ends. Smart Control allows you to monitor the washing process and let you know when the cycle is complete.
Smart Care	• Samsung's Smart Care, an automatic error-monitoring system, detects and diagnoses problems at an early stage and provides a quick and easy solution through LCD navigation. With the innovative Smart Control technology, you can also be alerted when the problem occurs via your smart phones.
Self Clean+ (Tub Cleaning cycle)	• Clean your drum with one button! This Pure Cycle is specially designed to remove detergent residue and dirt buildup in the tub, diaphragm, and on the door glass without the need for special chemical detergents.
SuperSpeed	• Cut your laundry time in half and clean efficiently. Simply select Super Speed to wash a full load in 30 minutes. A powerful water spray helps detergent penetrate fabrics faster and speeds up rinsing. A larger-diameter drum cleans with more force and a Swirl+ pattern extracts water effectively.
Bixby	• Use your washing machine more optimally and easily with the Bixby artificial intelligence (AI) system. 'Laundry Recipe' recommends wash cycles, 'Laundry Planner' optimizes your daily schedule, 'HomeCare Wizard' enables remote troubleshooting, and 'Auto Cycle Link' ensures optimal drying.
DD Motor	• The power to handle anything! Our direct-drive inverter motor delivers power right to the washer tub from a variable speed, reversible motor. A beltless direct-drive motor generates a higher spin speed of 1,300 rpm for more effective, quiet operation. The washer also has fewer moving parts, meaning fewer repairs.
Pedestal with Storage Drawers (Model No : WE357*)	• An optional 15" pedestal is available to raise the washer for easier loading and unloading. It also offers a built-in storage drawer that can hold a 100 oz. bottle of detergent. 
Stacking (Model No : SKK-7A)	• Samsung washers and dryers can be stacked to maximize usable space. An optional stacking kit is available for purchase from your Samsung retailer. 

2-2. SPECIFICATIONS

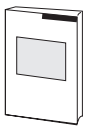


Type			Front loading washer
			WF45R6*00A*
Dimension (inches / mm)	A. Overall height		38.7 in. (984 mm)
	B. Width		27 in. (686 mm)
	C. Depth with door open		52.6 in. (1337 mm)
	D. Depth		31.3 in (796 mm)
Water pressure (psi (kPa))			20-116 (137-800)
NET Weight (lb (kg))			200 (91.0)
Spin revolution			1200 rpm
Heating Rating			900 W
Power consumption	Washing	120V	200 W
	Washing and Heating		1150 W
	Spin		550 W
	Drain		80 W

2-3. COMPARING SPECIFICATIONS WITH EXISTING MODELS

Project			WF6300R	WF6100R	WF6300R
Model Code			WF45R6300AV WF45R6300AP WF45R6300AW WF45R6300AC	WF45R6100AP WF45R6100AC WF45R6100AW WF45R6100AV	WF45T6200AW
Washer	Image				
	Available Colors		Black STSS / Platinum / White / Champagne	Platinum / Champagne / White	White
Key Features	Capacity (cu.ft / DOE)		4.5	4.5	4.5
	PowerFoam™		-	-	-
	AddWash™		-	-	-
	Internal Heater		Y	Y	Y
	Steam		Y	Y	Y
	SuperSpeed		Y	-	Y
	Smart Control		Y (Embedded)	-	-
	Smart Care		Y	Y	Y
	Interior Drum		Swirl+	Swirl+	Swirl+
	Self Clean +		Y	Y	Y
	Washing Cycles		12	10	10
	VRT PLUS™		Y	Y	Y
	RPM (Max Spin Speed)		1,200	1,200	1,200
	Interior Drum Light		-	-	-
	Motor		DD	DD	DD
	Drum tilt		5 degree	5 degree	5 degree
	Cycle Time (Normal 8lb)		45min	45min	45min
	Cycle Time (SuperSpeed)		30min	-	30min
	Water Inlet Hose Included		-	-	-
Design	Door Type		New Crystal Blue	Tint	New Crystal Blue
	Door Safety		Y	Y	Y
	Chrome Deco : Panel		-	-	-
	Time Display		18:88 LED	18:88 LED	18:88 LED
	LED color		Ice Blue	Ice Blue	Ice Blue
	Door Handle		Inner	Visor	Inner
Electrical Requirement	Voltage / Frequency		120V / 60Hz	120V / 60Hz	120V / 60Hz
	Ampere		15 Amps	15 Amps	15 Amps
Dimension	Net (mm)	Width	686	686	686
		Depth	767	767	767
		Height	984	984	984
	Gross (mm)	Width	746	746	746
		Depth	866	866	866
		Height	1076	1076	1076
	Net (inch)	Width	27	27	27
		Depth	30.2	30.2	30.2
		Height	38.7	38.7	38.7
	Gross (inch)	Width	29.4	29.4	29.4
		Depth	34.1	34.1	34.1
		Height	42.4	42.4	42.4

2-4. SUPPLIED ACCESSORIES

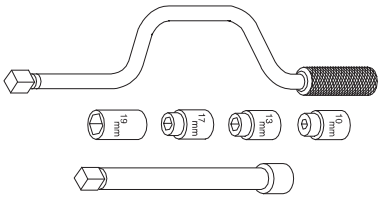
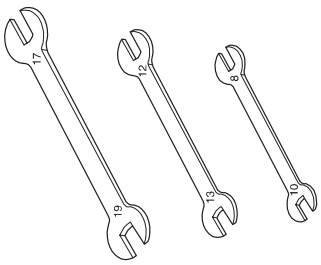
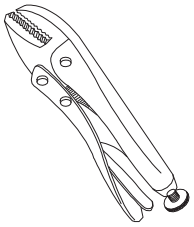
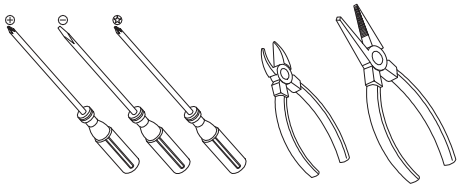
Item		Code	QTY	Remarks
	USER MANUAL	USER : DC68-03665A TECH : DC68-03672A	1	Default
	CAP-FIXER	DC67-00307A	6	Default
	HOSE-HANGER	DC62-10278A	1	Default

Note

- Customer can purchase additional water supply and drain hoses from a service center.
- The Spanner (wrench) and water supply hoses are not included.

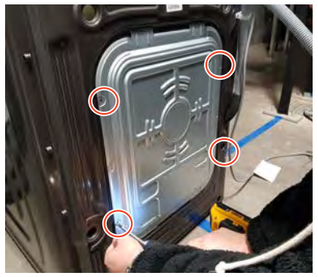
3. DISASSEMBLY AND REASSEMBLY

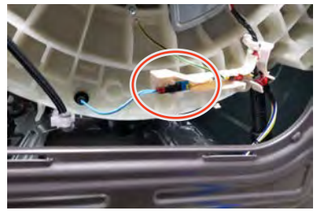
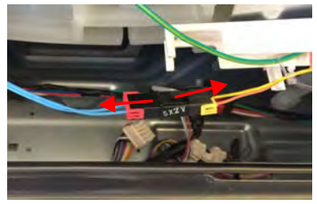
3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

Tool		Type	Remarks
	Socket Wrench with 6” Extension	10mm 13mm 19mm	Heater (1) Motor (1), Balance (5), 2 holes of each left and right of the shock absorber 1 Pulley hole
	Open End wrench	10mm 13mm 19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver 17mm.
	Vice pliers		A tool to use to remove bolts that may become stripped/ damaged from using socket wrench.
	Others (Driver, Nipper, Long nose)		Common tools for service.

3-2. STANDARD DISASSEMBLY DRAWINGS

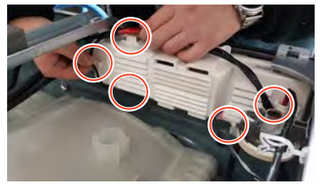
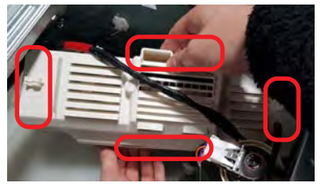
► This is a standard disassembly diagram and may differ from the actual product.
Use this material as a reference when disassembling and reassembling the product.

Part	Figure	Description
Disassembling and Repairing the Rear Motor		1. Remove the 4 screws holding the Back-Cover at the back of the washing machine and separate the Back-Cover pushing it downwards. (Assemble it by lifting it upwards)
		2. After separating the Back-Cover, remove the 19mm nut holding the Motor. To remove it, turn it counter-clockwise. As the Motor also rotates if the nut is turned slowly, torque it quickly and firmly in a single action. Do not remove the nut by inserting a screwdriver into the Motor, as this may result in damaging the motor.
		3. Remove the 19mm nut and washer and then separate the Rotor. Removing the rotor requires a lot of force due to the magnetic force of the rotor. Be careful of your hands and arms because the rotor may come off suddenly and you may injure them. You can separate the connector by pressing.
		4. Separate the Motor Wire while pressing the navel of the Housing.
		5. Separate the 6 M10 screws. → Separate the Assy Bracket Motor → Separate the Stator. When removing the last of the 6 screws, hold the Stator as it may fall when the screws are removed.
		* **Check Points for Troubleshooting** 1. Check if there is any alien substance between the Rotor and the Stator. 2. Check if the motor power (Blue, White, Red) wire is connected The order of the motor wires is Blue, White, and Red from the right. Check if the resistance between Blue-White, White-Red, and Red-Blue is equal to 15Ω.

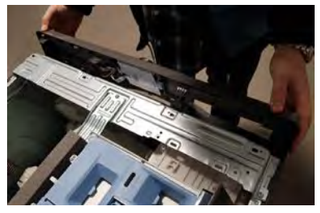
Part	Figure	Description
Disassembling and Repairing the Thermistor		1. Separate the Assy Thermistor and Guide Wire-T while pulling the Assy Thermistor. 2. Separate the Assy Thermistor and Assy Wire Harness while pressing the navel of the Housing.
		
		3. Pull the Assy Thermistor from Tub Back. When disassembling Assy Thermistor, leave the rubber packing.
		
	⚠ **CAUTION**  	1. When assembling the thermistor, push it all the way in. Otherwise, a leak may occur. If assembling like NG picture, water leakage possibility is high. 2. Make sure that there is no gap between rubber packing and the tub-back. If the gap exists between rubber packing and tub-back, water leakage possibility is high.

Part	Figure	Description
Separating the Top Cover and Control Panel **(Check Sub-PCB)**		1. Remove the 2 hexagon screws, which are at the back, attaching the top cover.
		2. Disassemble the Top Cover by sliding it backwards.
		3. Press the release button to remove the Assy Drawer.
		4. Remove the 3 screws in Draw Housing, and disassemble Draw Housing by sliding it backwards.
		5. After remove 4 screws in PANEL-CONTROL, Pull the Control Panel towards you and then lift it upwards to separate.
		6. Carefully disconnect the wire connectors by hand.

Part	Figure	Description
Separating the Top Cover and Control Panel **(Check Sub-PCB)**		7. Disassemble the ASSY KNOB-ENCODER by pulling it upwards. Knob-PCB can be separated from PANEL-CONTROL.
		8. Disassemble the Cover Panel by hand. The Sub-PCB is located in the Panel Cover.

Part	Figure	Description
Separating the Main PCB		1. Remove the 2 screws holding the ASSY PCB-MAIN at the back of the washing machine.
		2. Remove 4 wires and pressure hose from the PBA Cover.
		3. Separate the 3 Hooks by pushing PBA to the right.
		4. Separate the Hooks of Cover PBA.
		5. Disconnect All Connectors on main PBA.

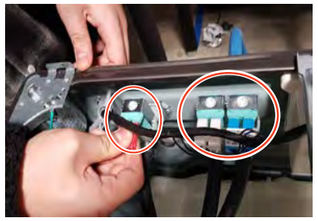
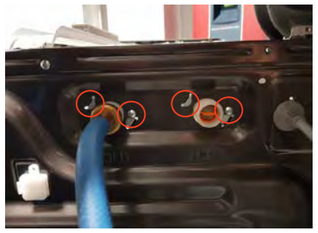
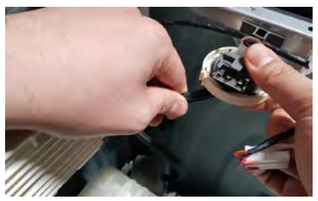
Part	Figure	Description
Disassembling Assy Door		1. Remove the 2 hexagonal screws holding the hinge door.
		2. Disassemble Assy Door by lifting it upwards.

Part	Figure	Description
Disassembling the Frame Front (Check the Door Lock S/W)		1. Remove the 2 hexagon screws,in the back of the unit, that are attaching the Top Cover.
		2. Disassemble the Top Cover by sliding it backwards.
		3. Press the release button to separate the ASSY DRAWER.
		4. Remove the 3 screws in Assy Housing Drawer, and disassemble Assy Housing Drawer by sliding it backwards.
		5. After removing 4 screws in the Control Panel, pull the Control Panel towards you and then lift it upwards to separate.
		6. Open Filter Cover and disassemble Drain Hose from hook.

Part	Figure	Description
Disassembling the Frame Front (Check the Door Lock S/W)		7. Place the flat-tip driver between the diaphragm and the wire clamp at 5 o’clock.
		8. Use a flat-tip driver to get the wire out.
		9. Remove wire clamp and pull diaphragm out by grabbing 12 o’clock as picture.
		10. Remove the 3 screws of Door Lock SW.
		11. Remove the 3 screws below of Frame Front.

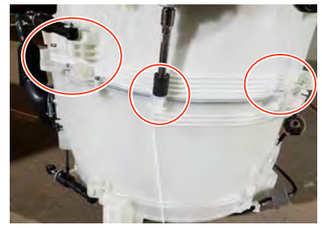
Part	Figure	Description
Disassembling the Frame Front **(Check the Door Lock S/W)**		12. Remove the 4 screws on the Frame Front.
		13. Press down on the tabs of the upper-plate with a screwdriver to separate the FRAME-FRONT.

Part	Figure	Description
Assembling Diaphragm to Frame Front **(This is added to be assembled exactly)**		1. Assemble Diaphragm to frame front.
		2. Before assembling Wire Clamp, check position of cutout(11 o'clock). Each cutout should be above redline, move the diaphragm to upside.
		3. Bundle of wire clamp has to be at 5 o'clock and assemble the wire clamp from 12 o'clock.

Part	Figure	Description
Disassembling and Repairing the Water Supply Valve		1. Remove the Assy Cover Top. 2. Disconnect the water supply valve wire connector.
		3. Remove the 4 screws holding the water supply valve.
		4. Remove the hose connected to the valves. (Use the plier to remove the hose.)
Disassembling and Repairing the Water Level Sensor		1. Separate the wire connected Pressure Sensor. 2. Firmly squeeze the front of the wire connector and pull to remove the connector.
		3. Remove the hose from the SENSOR-PRESSURE.
Disassembling the inside Detergent Box		• Hold the Hose and Nozzle and disassemble from Diaphragm.

Part	Figure	Description
Disassembling the Pump Motor Part		1. Remove the 2 screws holding the ASSY PUMP DRAIN.
		2. Separate the Clamp of the hose connected to the PUMP and then pull the DRAIN-HOSE. 3. Separate the Clamp of the hose connected to the PUMP and then pull the HOSE-AIR. 4. Separate the Clamp of the hose connected to the PUMP and then pull the HOSE-DRAIN.
		5. Separate the wire connected to the PUMP.
Removing the Remaining Water		• If the washing machine works, drain the water in the wash tub by selecting the Spin course. If the washing machine does not work, remove the laundry from the wash tub and scoop the remaining water out of the tub using a cup.

Part	Figure	Description
Disassembling the Tub	 	1. Remove the 2 screws attaching the cross braise and 6 screws attaching the frame plate.
		2. Remove the 6 bolts attaching WEIGHT BALANCER and then pull it towards you with caution.
		3. Remove the 4 bolts attaching the Dampers to the Tub Assy. 4. Remove all wires and hoses connected to the Tub Assy.
		5. Remove the spring hanger cap to remove the Tub Assy.
		6. Two people are needed to lift the Tub Assy. Carefully lift the tub using the Spring Hangers.

Part	Figure	Description
Disassembling the Tub		7. Remove the 10mm bolts from the middle of the TUB and separate the TUB-FRONT and TUB-BACK.
Disassembling the DRUM		1. Separate the ASSY DRUM from TUB, remove 6 10mm bolts from the upper ASSY DRUM, disassemble the ASSY FLANGE SHAFT.
		2. Remove 3 screws on the outside of the drum and then remove the 3 DRUM-LIFTERS.

<table>
<tr><th>Part</th><th>Figure</th><th>Description</th></tr>
<tr><td rowspan="3">Separating the Heater at the Bottom Front</td><td rowspan="2">  </td><td>1. Disassemble the Front-Frame.</td></tr>
<tr><td>2. Separate the connection wire.
- Separate the Thermostat fixed at the bottom of the Tub.
(Take precaution as there may be water remaining.)
Make sure to separate the Thermostat first and then separate the Heater. If you fail to observe this order, it may result in a shock and be damaged.</td></tr>
<tr><td>3. Loosen the 10mm nut using a socket wrench and then separate the Heater.
Do not completely remove the nut.
Pull the Heater forward after releasing the nut.
Be careful not to damage the heater.
⚠ When you re-assembly the heater, make sure to install the Heater exactly onto the Bracket inside the Tub. If it is not properly installed, it may cause a fire. In addition, completely insert the packing part into the Tub when assembling it so that the packing part is completely attached onto the Tub.</td></tr>
<tr><td colspan="2">* Check Points for Troubleshooting
1. Check if the resistance of the Heater is equal to 27.1Ω (for the 1900W product), or 26.2Ω (for the 2000W product).
2. Check if the resistance of the Thermistor is equal to 12kΩ (at room temperature).</td></tr>
</table>

Reassembly is in the reverse order of the removal.

4. TROUBLESHOOTING

4-1. ERROR MODES

► **This is a washer integrated error mode. For detailed information, refer to the general repair scripts.**

Error Type	For USA	Causes	Remarks
Water Level Sensor	1C	- The part of the hose where the water level sensor is located is damaged (punctured). - The hose is clogged with foreign material. - The hose is folded. - Too much lubricant has been applied to the insertion part of the air hose. - Hose engagement error. (disengaged) - Part fault. (Faulty internal soldering) - The water level sensor terminal is disengaged. - Main PBA fault.	
Motor Driving Error and Hall Sensor Error	3C	- The PBA connector terminal is not connected. - The motor spin net is not engaged. - The motor's internal coil is damaged. (short-circuited or cut) - The hall sensor terminal is not connected. - Foreign material (a screw) has entered the motor. - Motor overloaded due to too much laundry. (Non-sensing) - The motor hall sensor terminal is not connected. - PBA fault. - The motor driving error from the PBA is weak. Unstable relay operation, etc. - This occurs due to erroneous operating signals from the motor hall sensor. - The IPM terminal of the main PBA is not connected. - The DD motor cover is out of place. - The PCB housing terminal is not connected. - PBA fault. - DD motor fault.	This error occurs because of restrained revolutions. This error occurs when an interference is generated due to too much laundry, etc.
Water Supply Error	4C	- Foreign material is entering the water supply valve. - The water supply valve terminal is not connected. - Kinked hoses can also cause a 4C error code - The warm water and rinse connectors are wrongly connected to each other. - This occurs if the PCB terminal from the drain hose to the detergent drawer is not connected. Check whether the Pressure hose is folded or torn.	
	4C2	- The cold and hot water supply hoses are not connected correctly. - The water temperature is sensed as higher than 50 ˚C in the Wool or Lingerie courses.	
Drain Error	5C	- The pump motor impeller is damaged internally. - The wrong voltage is supplied to the parts. - Part fault. - This occurs due to freezing in the winter season. - The drain hose is clogged. (Injection error, foreign material) - The Drain Pump is logged with foreign material: Rubber bands, coins, cotton, hair pins, etc. have collected inside the drain pump ASSY. - The water pump terminal is not connected.	
Power Error	9C1,9C2	- Check the consumer's power conditions. : Make sure to check the operating voltage. Connect a tester to the internal power terminals during the Sanitize Cycle and observe the washing machine's operation carefully. : Check the voltages. (An error occurs when under or over voltage is supplied.) : When the connecting wire is 1m, a momentary low voltage may drop up to 10V. - Main PBA fault (sometimes)	

Error Type	For USA	Causes	Remarks
Communication Error	AC	- The signals between the sub and main PBAs are not sensed because of commuication error. - Check the connector connections between the sub and main PBAs carefully. → Check for incorrect or loose connections, etc. - Remove the sub PBA C/Panel and check for any faulty soldering.	
	AC3	- The signals between The DR Module and main PBAs are not sensed because of commuication error. - Check The connector connections between The DR Module and main PBAs carefully. → Check for incorrect or loose connections, etc. - Remove The DR Module and Check for any faulty soldering.	
	AC4	- The signals between The WIFI Module and main PBAs are not sensed because of commuication error. - Check The connector connections between The WIFI Module and main PBAs carefully. → Check for incorrect or loose connections, etc. - Remove the WIFI Module and Check for any faulty soldering.	
	AC5	- The signals between The LCD Module and main PBAs are not sensed because of commuication error. - Check The connector connections between The LCD Module and main PBAs carefully. → Check for incorrect or loose connections, etc. - Remove The LCD Module and Check for any faulty soldering.	
	AC6	- The signals between the Inverter PBA and main PBA are not sensed because of communication error. - Check The connector connections between the Inverter PBA and main PBA carefully. → Check for incorrect or loose connections, etc. - Remove the Inverter PBA and Check for any faulty soldering.	
Switch Error (Main Relay Error)	BC2	- A switch is jammed or stuck due to be pressed unevenly due to deformation of the control panel or button. - This error may occur when the screws that hold the sub PBA in place are tightened too much. - A button other than the Power button is continually pressed. (for more than 30 seconds). - Deformation of an internal plastic injection part. - A screw for assembling the sub PBA is tightened too much.	
Door Error	DC	- A switch contact error because of a deformation of the door hook. - When the door is pulled by force.	When the door is not opened after the door open operation.
		- This occurs in the Boil wash because the door is pushed due to a pressure difference from internal temperature changes.	When the door is not locked after the door close operation.
	DC1	- The door lock switch terminal is connected incorrectly. - The door lock switch terminal is broken. - This occurs intermittently because of an electric wire leakage - Main PCB fault.	
Heater Error	HC,HC1	- The washing heater is short-circuited or has a wire disconnected. - The washing heater in the tub has an error. (Contact error, temperature sensor fault) - If the water level sensor operates without water because water is frozen or for any other reason and the temperature sensor engaged at the bottom to prevent overheating for the washing heater detects a temperature of 100 to 150 ˚C, the washing machine turns the input power off.	If the heater has no error, this occurs because of a PBA relay malfunction.

Error Type	For USA	Causes	Remarks
Water Leakage Error	LC	- Heater engagement fault. (out of place) - The air hose is out of place and water leakage occurs during the spin cycle. - The tub back at the safety bolts fixing part is broken. - Water leakage occurs at the front with foaming because of too much detergent. - Water leakage occurs because the connecting hose to the detergent drawer is connected incorrectly. - The drain pump filter cover is engaged incorrectly. - Water leakage occurs at the drain hose. - The duct condensing holding screws are worn. - The nozzle-diaphragm is engaged in the opposite direction or the rubber packaging is omitted. - Water leakage occurs because the screws that hold the tub back and front in place are fastened incorrectly. - The leakage sensor is faulty.	
Overflow Error	OC	- Water is supplied continually because the water level detection does not work. - Because the drain hose is clogged and there is an injection error (at a narrow section), the water level detection does not work and water is supplied continually. - Water is supplied continually because of freezing or because there is foreign material in the water supply valve. - This error may occur when the water level sensor is degraded.	This error occurs because the water level sensor terminal is out of place.
Temperature Sensor Error	TC1	- The washing heater sensor in the tub has an error. (Contact error or temperature sensor fault) - The connector is connected incorrectly or is disconnected. - If the water level sensor operates without water because the water is frozen or for any other reason and the temperature sensor engaged at the bottom to prevent overheating for the washing heater detects a temperature of 100 to 150 ˚C, the washing machine turns the input power off.	Heater sensor fault : When the connector is connected incorrectly or has a wire disconnected or contact error
Unbalance Error	UB	- As laundry causes this error, check the laundry. - Find the reason for the unbalance and solve it as directed in the user manual.	
Foaming Detected	SUD	- This occurs when too much foaming is detected. It is also displayed while foaming is removed. When the removal is finished, the normal cycle proceeds. “Sud” or “SUdS” is displayed when too much foaming is detected and “End” is displayed when the removal of the foaming is finished. (This is one of the normal operations. It is an error for preventing non-sensing faults.)	
Mems Error Detected	8C1 8C2 8C	1. Check Unit for excessive vibration. 2. Replace Main PCB	
System Error	SF	- Micro Controller Operation Fail.	Replace Assy PCB.

4-2. TEST MODES

No	Mode	How to enter
1	Smart Install	Standby → Set the scheduled time to 17:00 → Press Start/Pause for 7 seconds → Smart Install
2	Automatic check mode	Smart Install → Press Start/pause While displaying “AS”.
3	Manual check mode	Enter Smart Install → Press Delay End While displaying “AS” delay end, Check devices in turn when pressing delay end.
4	S/W version Check	Enter Smart Install → Press the first button on the left at the bottom While displaying “AS”.
5	Diagnostic Code Check	Enter Smart Install → Press the first button on the right at the bottom while displaying “AS”, “Cr”. Tum jog dial along the direction for CW when displaying. For models that do not feature the jog dial, press the 3rd button from the bottom left to display the information codes one by one by one with the latest first.

Automatic Mode of Smart Install

- Automatically start all operation modes of Smart Install.

Manual Mode of Smart Install

- Under the condition of manual mode, every time when “Delay End” is pressed, next step will be entered.
- Contents like washings, etc. are not allowed in the drum.

1	carry out test for machine door locking	7	carry out test for operation of drainage pump
2	carry out test for drainage pump operation	8	carry out test for operation of dehydration
3	carry out test for operation of preparatory valve	9	carry out test for operation of drying heater and drying fan
Co	carry out test for operation of cold water valve	10	carry out test for operation of machine door
Ho	carry out test for operation of hot water valve	OK(Ot)	Automatic mode of Smart Install is completed normally
6	carry out test for operation of water shot valve		
	carry out test for operation of washing heater		
	carry out test for operation of rinsing		

※ Accessories not included in the product are not require to check and they can be skipped directly.

Identity of Smart Install completion

- After Smart Install is completed normally, 『OK(Ot)』 identity will display.
- If Smart Install is completed abnormally or Smart Install fails to work, 『nG』 identity will display.

Result Enquiry of Automatic Mode of Smart Install

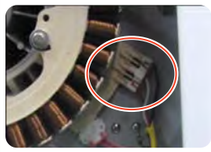
- Under the condition of appearance of 『AS』 identity, press “Delay End + Start/Pause” button.
- If automatic mode result is in normal condition, 『OK(Ot) identity will display.
  If automatic checking mode fails to complete normally or fails to execute, 『nG』 identity will appear.

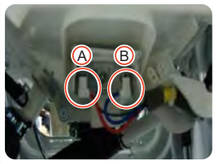
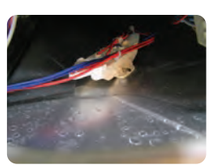
Diagnosis Information Display Mode

- Under the condition of appearance of 『AS』 identity, if the first button on the right at the bottom is pressed, 『CR』 identity will appear and diagnosis information display mode is entered.
- Under the condition of appearance of 『CR』 identity, of turn the jog dial control switch clockwise, diagnosis codes generated before will display 7 digits at most.

4-3. CORRECTIVE ACTIONS FOR EACH ERROR CODE

► These are common troubleshooting procedures for each drum-type washer error mode. For detailed information, refer to the general repair scripts.

Error Type	Error Mode	Causes	Corrective Actions	Description of Photo	
Water Level Sensor	1C	• Water level sensor fault • Incorrect connections of the water level sensor terminal • The hose part for the water level sensor is folded. • Main PCB fault	Check the water level sensor terminal connections and contacts. An error occurs if an incorrect water level sensor is used. Make sure to check the material code. (Abnormal operation) If the water level sensor is faulty, replace it. If the error persists despite taking the action above, replace the PBA.		Check the water level sensor frequency. - Check it after the water level sensor and the connector are connected. ☑ Checking Part : Pink Color Wire Orange Color Wire. - Frequency : Approx. 25.5 KHz with no load
Washing Motor Error	3C	• Washing motor fault • Incorrect connections of the washing motor • Washing motor rotor and stator fault • Main PCB fault	Check the motor connector terminal connections and contacts. 3E is displayed because overloading occurs due to too much laundry. Check whether the stator of the motor cover is damaged. Check for coil disconnections due to foreign material. If the PBA control circuit is faulty, replace the PBA.		► Check the motor Winding Coil Plug out the connector and read resistances at any two of the three terminals on Motor : Should be 6.0 Ω (at 25°C)
Communication Error	AC	• The signals between the sub and main PBAs are not sensed. • Incorrect wire connections between the sub and main PBAs.	Check the wire connections and terminal contacts between the sub and main PBAs. Check for disconnected wires. Check whether the sub PBA is short-circuited because of moisture. If the main PBA's communication circuit is faulty, replace it.	-	
Door Error	DC DC1	• Door switch fault • Main PCB fault	If a dS error occurs, check whether it occurs during the Boil cycle. - If it is detected that the door is open, close the door. The 120V is directly connected to the door. Check and repair the power wire connections and insulation state. Check the door switch. Replace if faulty. Check the main PBA door sensing circuit. Replace if faulty.		► TYPE 1 Check the door switch Resistance. The resistance of 1 and 3 Pin Must be approximately 175Ω.

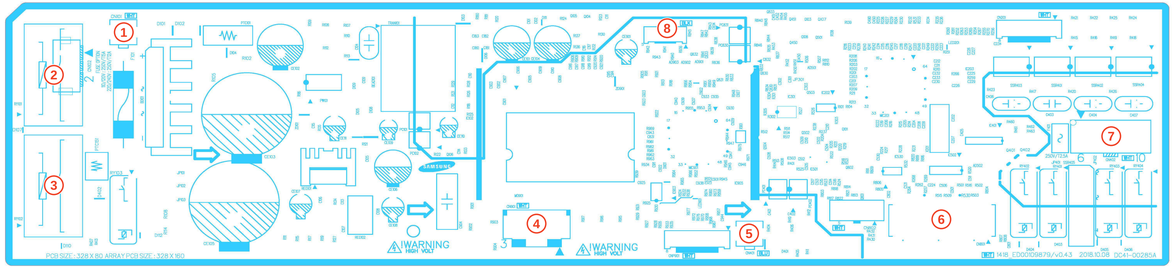
Error Type	Error Mode	Causes	Corrective Actions	Description of Photo	
DOOR	DDC DC3	• Main PCB fault • Bending connector	DDC means add door is opened Close the add door. Check add door switch, Barrier, Lock module's movement is operate normally. check Open detection switch and Barrier 's Lock pillars coming down while pressing in operation normally. Main PBA door detection circuit is fault or connector combination. Replace or repair if faulty.		Check resistance values normally displayed when you press the door switch button.
					Check door lock motor resistance. (1-2 pin 46.57±15Ω) Lock stroke check normal detection on protrusion status. (3-4/3-5 pin check resistance value displayed normally).
Heater Error	HC,HC1	• Disconnection wire • Heater falut • Wash-thermistor fault	Check for connection between wire and heater. If wash heater is faulty, replace it. - Refer the TYPE 1 If it is not problem in heater, replace wash-thermistor - Refer the TYPE 2	 [FRONT]	► TYPE 1 Check the resistance between A and B. It should be 16.05±0.65Ω.
				 [BACK]	► TYPE 2 If TYPE 1 is OK, Change a wash-thermistor at back of Tub.
Water Leakage Error	LC	• Check for any leakage. • Foreign material in the DV case • Fault of a hose or incorrect part engagement in the product	Check for any leakage on the base, Hose, Valve and Tub connections and take any required action. During natural draining, this error occurs because the drain bellows are clogged with foreign material. Remove the foreign material. Check the drain motor operation. Replace if it does not operate normally.		► DRAIN PUMP TYPE (Automatic Drainage) Check whether there is any foreign material in the bellows. Check for any foreign material, such as underwear wires or coins.
					
					► PUMP TYPE Check for any leakage on the base, Hose, Valve and Tub connections.

Error Type	Error Mode	Causes	Corrective Actions	Description of Photo	
Overflow Error	OC	• Water level sensor fault • Freezing in the winter season	If the water level sensor has a functional error, replace it. Check the hose. This error occurs if it is torn or has a hole. This error occurs if water is frozen in the winter season. Use hair dryer to defrost hose. Consider relocating the unit to warmer location.		Check the hose connected to the water level sensor. Check whether the hose is folded, cut, or damaged.
Temperature Sensor Error	TC1	• Washing temperature sensor fault • Main PCB fault • Freezing in the winter season	Check the connections for the washing heater temperature sensor connector. If the washing heater temperature sensor has a functional error, replace it.	-	
Unbalance Error	UV	• Caused by the laundry contents	Check the type of laundry. Check whether they may cause an unbalanced situ at ion. - Educate the consumer to press pause reposition the load or remove a few items. Press start to continue and complete the wash cycle.	-	

5. PCB DIAGRAM

5-1. MAIN PCB

► This Document can not be used without Samsung's authorization.

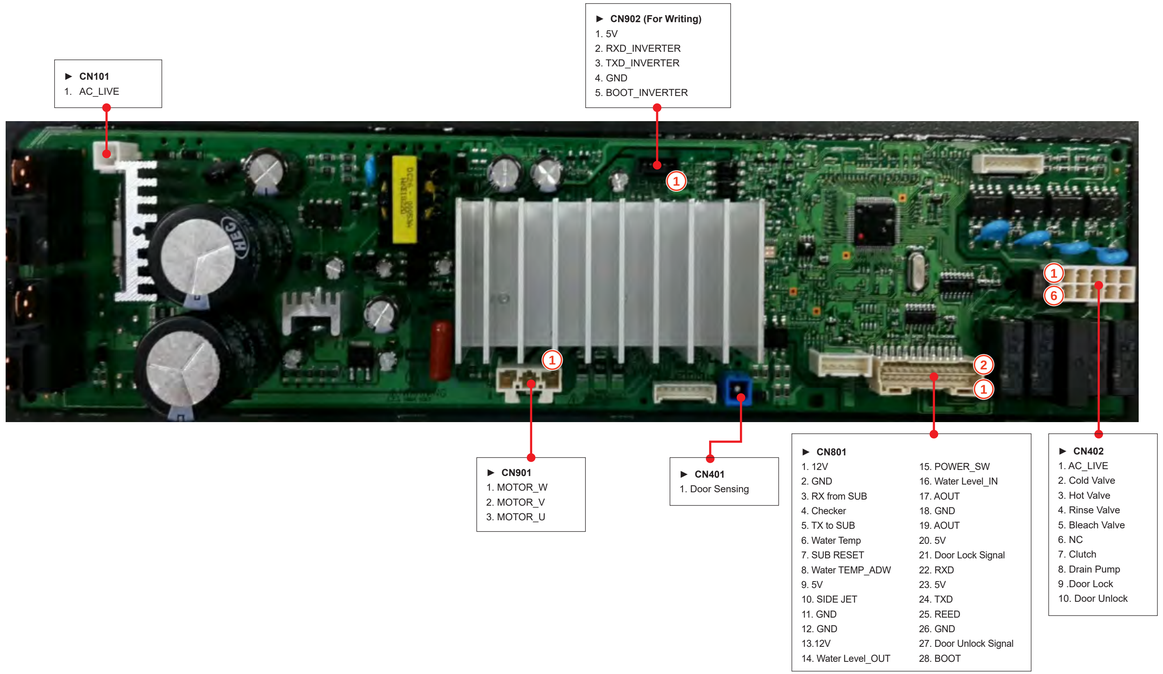


Location	Part No.	Function	Description
1	CN101	PBA Power Supply	Supply 120V of AC power. (AC_LIVE)
2	RY101	Washing Heater Relay	The switch for the Washing Heater power.
3	RY102	Main Relay	Be Supplied PBA power when the Power button is pressed. (AC_NEUREAL)
4	CN901	Motor Output	MOTOR 3-phase Output.

Location	Part No.	Function	Description
5	CN401	Door Sensing	Check whether the door is open or closed.
6	CN801	Sensor Connection Port	Supply power to the sensor and provides a communications function.
7	CN402	Each Load Connection Port	The port to supply power to each electric device.
8	CN902	Inverter Debugging	Debugging Inverter MICOM.

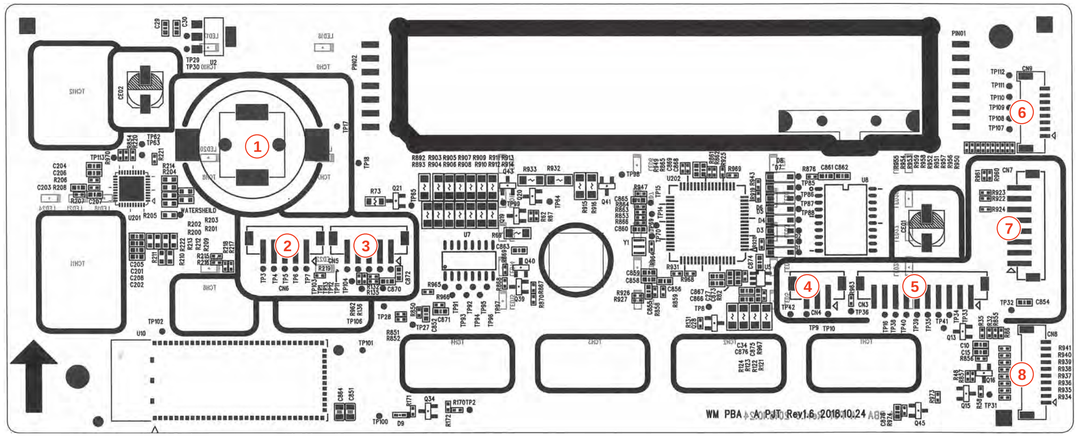
5-2. CIRCUIT DIAGRAMS OF MAIN PARTS FOR ASSY MAIN PCB

► This Document can not be used without Samsung's authorization.



5-3. ASSY MODULE (TOUCH)

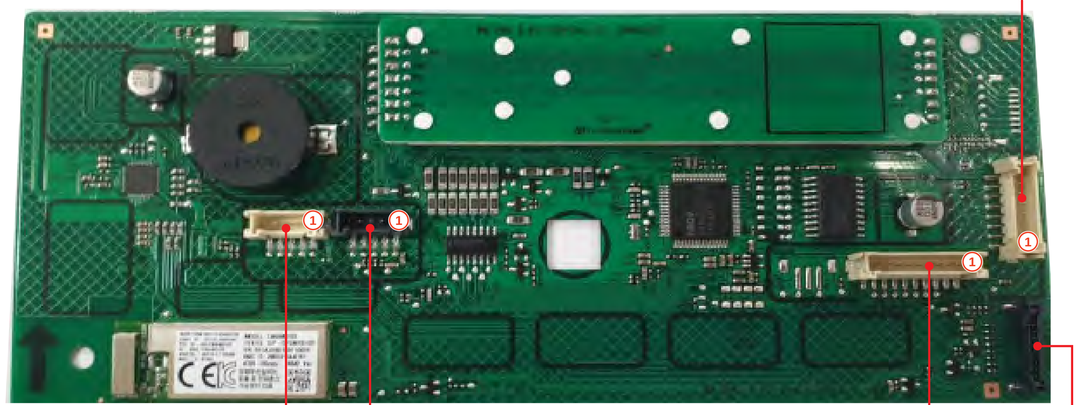
► This Document can not be used without Samsung's authorization.



Location	Part No.	Function	Description
1	BUZZER	Buzzer Circuit	Be generated sound when Key is pressed or the encoder is operated
2	CN6	Touch Writing	Touch MICOM Writing
3	CN5	Writing	SUB MICOM Writing
4	CN4	Drum Light Circuit	It controls drum light LED On/Off
5	CN3	Connect Main PBA	Receives power from the Main PBA and provides a communications function
6	CN9	Reset	It controls MCU reset
7	CN7	JOG Connection	Supplies power to JOG PBA and provides course LED on / off function
8	CN8	ARTIK update	This port can be used to update ARTIK (Wifi-Module)

5-4. CIRCUIT DIAGRAMS OF MAIN PARTS FOR ASSY MODULE (TOUCH)

► This Document can not be used without Samsung's authorization.



► **CN7**
1. 12V
2. GND
3. JOG SIGNAL
4. JOG SIGNAL
5. 5V
6. LED SIGNAL
7. LED SIGNAL
8. LED SIGNAL

► **CN6 (For Writing)**
1. GND
2. TOUCH_RESET
3. SWD_CLK
4. SWD_IO
5. 5V

► **CN5 (For Writing)**
1. 5V
2. RXD
3. TXD
4. GND
5. BOOT

► **CN3**
1. NC
2. NC
3. TX to Main
4. RX from Main
5. MCU_RESET
6. TOUCH_RESET
7. GND
8. 12V
9. POWER_KEY
10. NC

► **CN8**
1. ARTIK_TXD
2. ARTIK_RXD
3. GND
4. ARTIK_TRST
5. ARTIK_TDO
6. ARTIK_TCK
7. ARTIK_TDI
8. ARTIK_TMS
9. ARTIK_RESET
10. 12V

6. WIRING DIAGRAM

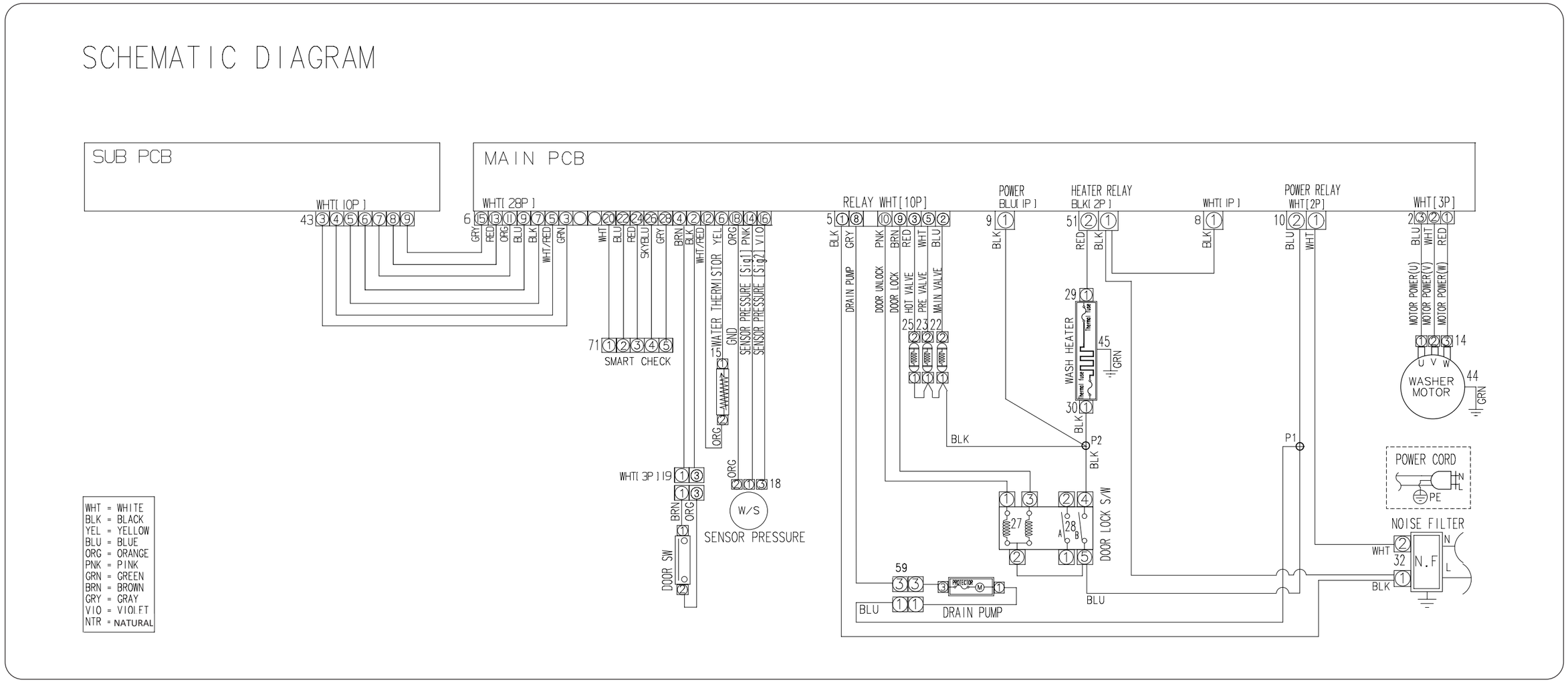
6-1. WIRING DIAGRAM

► This Document can not be used without Samsungs authorization.

■ REFERENCE INFORMATION

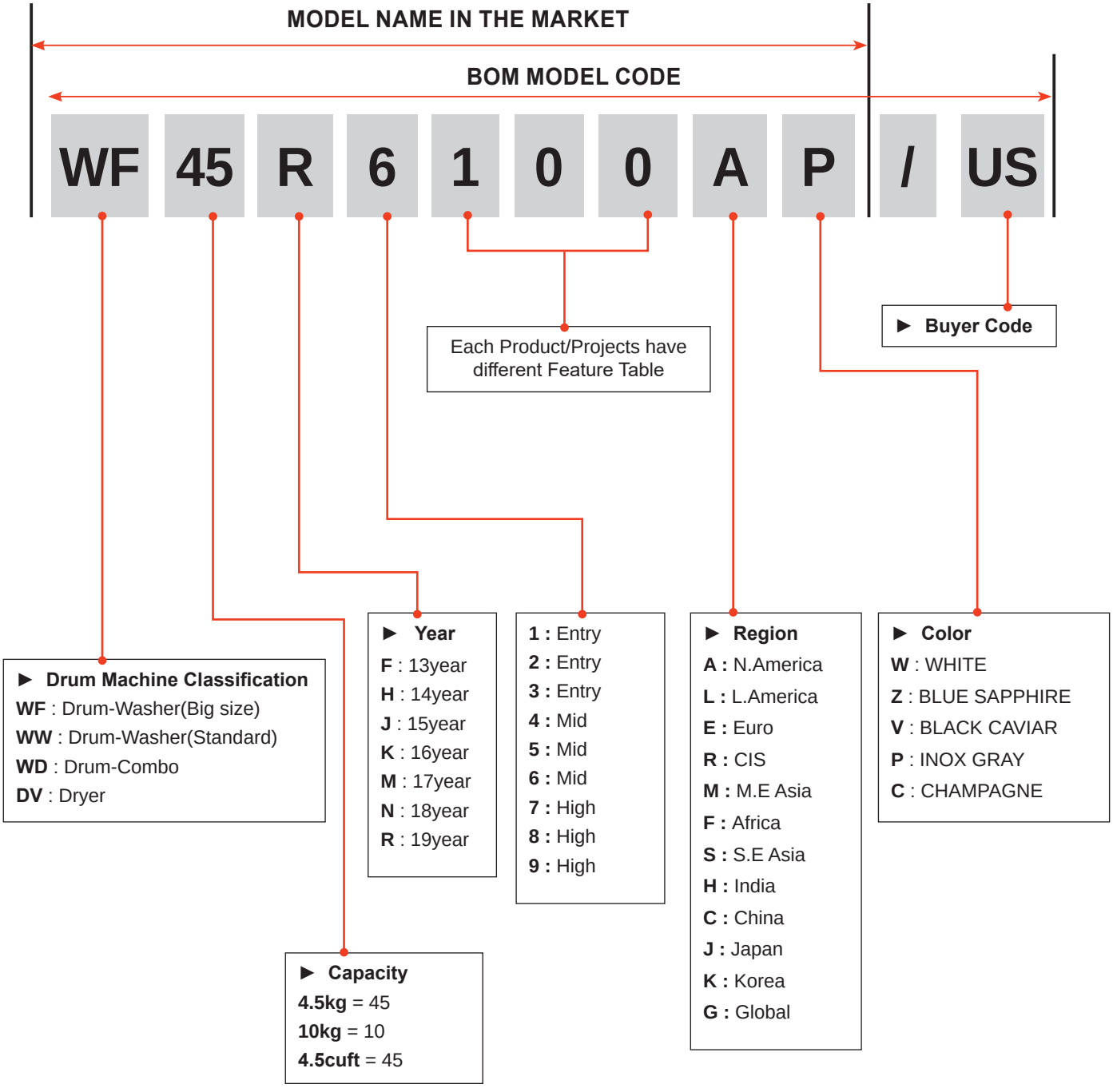
BLK	BLACK
BLU	BLUE
GRN	GREEN
GRY	GRAY
NTR	NATURAL
ORG	ORANGE

PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW



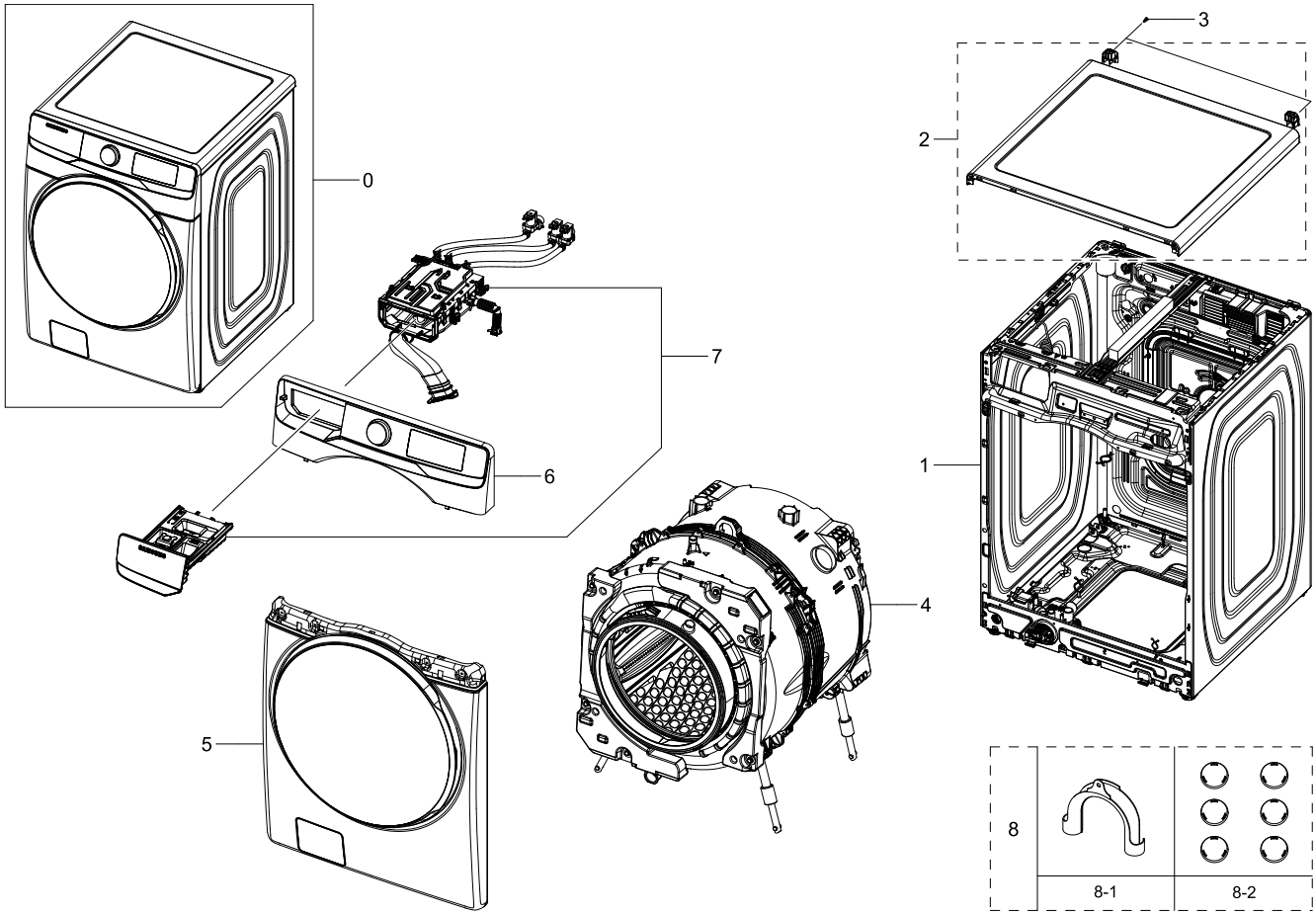
7. REFERENCE

7-1. WF6000R PROJECT NAME



1. WF45R6100AC/US

Exploded View

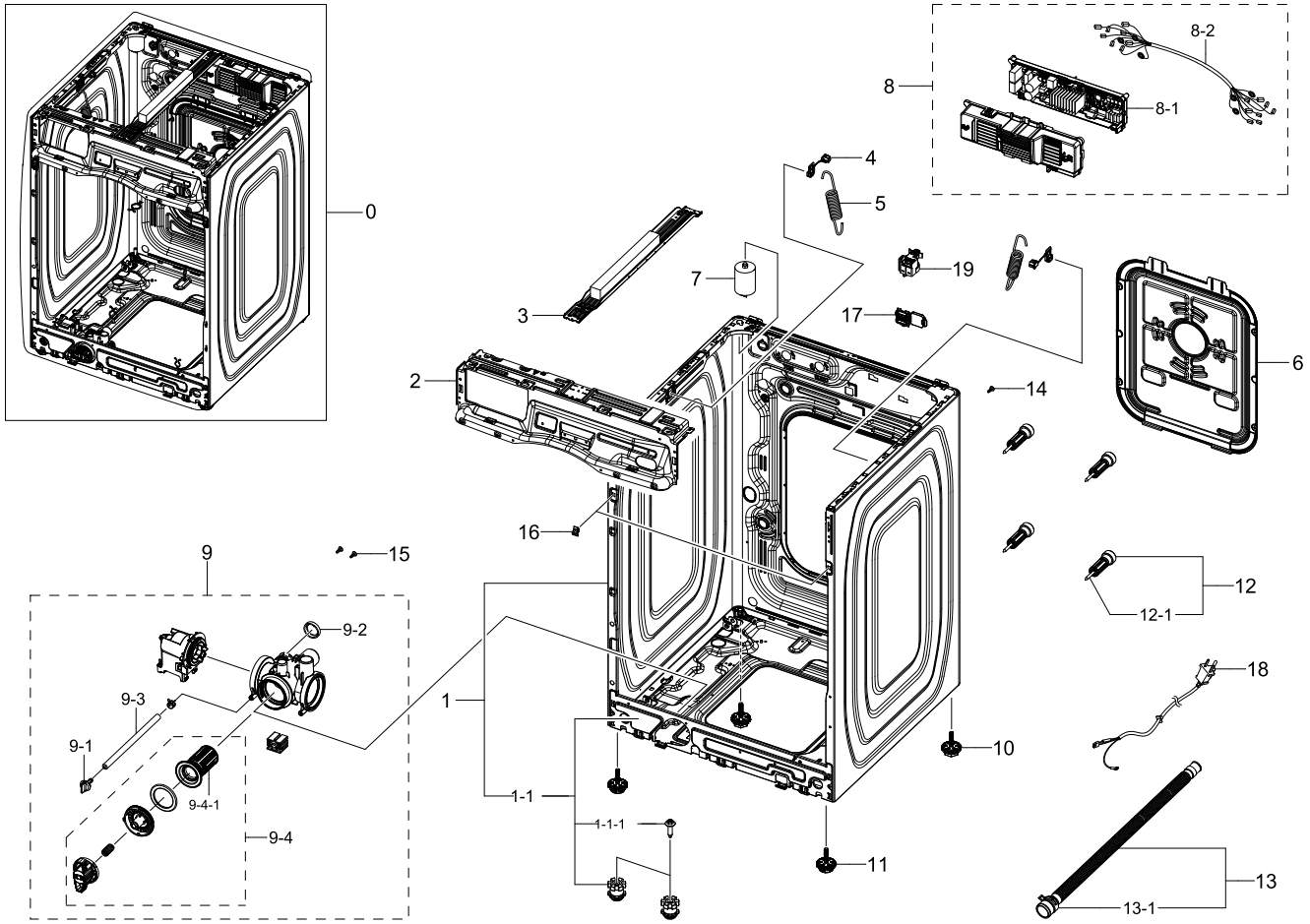


Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	1		DC90-27180D	ASSY FRAME PARTS; WF6000R,WF45R6100AS	SNA	1
2	1	P0001	DC97-21440D	ASSY COVER TOP; WR6000R,Champagne	SA	1
3	2	Z0062	6002-001431	SCREW-TAPPING; HEX,+,2,M5,L16,ZPC(WHT),SW	SA	2
4	1	U0184	DC90-27230A	ASSY TUB & DRUM; WF6000R,WF45R6300	SNA	1
5	1		DC90-27184E	ASSY FRONT PARTS; WF6000R,WF45R6100AS	SNA	1
6	1	C0002	DC97-21464G	ASSY PANEL CONTROL; WF45R6100AC	SA	1
7	1		DC90-27183E	ASSY DRAWER PARTS; WF6000R,WF45R6100AS	SNA	1
8	1	Y0101	DC98-02917B	ASSY ACCESSORY; WF6200,WF45K6200AZ/A2	SNA	1
8-1	2	WH5379	DC62-10278A	HOSE HANGER; PUMP MODEL,PP,ID27,T1.5,HS95	SA	1
8-2	2	W0614	DC67-00307A	CAP-FIXER; WF438AAC/XAA,PP,T1.5,RECYCLE,B	SA	6

2. Assy Frame&Cover Parts

Exploded View



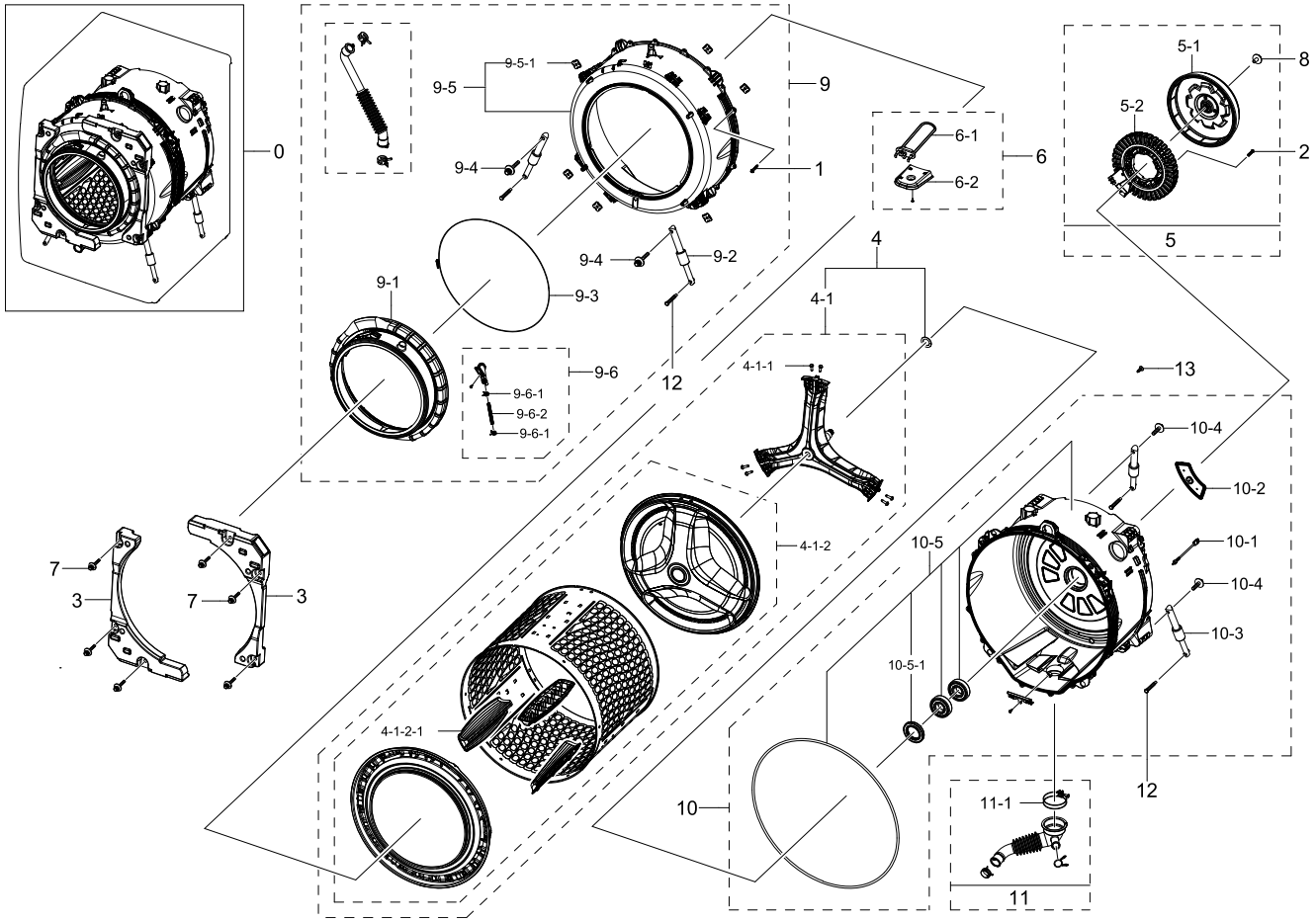
Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	2	F0028	DC97-21452D	ASSY FRAME; WF6000R,PCM,T0.7,Champagne	SA	1
1-1	3	X0010	DC97-21454A	ASSY PLATE BOTTOM; WF6000R	SNA	1
1-1-1	4	U0320	6011-001565	BOLT-HEX; M6,L35.1,ZPC(WHT),SWCH25K,TAPPI	SA	2
2	2		DC61-04766A	FRAME PLATE-UP; WF6500P,GI-SGCC,T1,A1-PJT	SA	1
3	2		DC61-04867A	GUIDE WIRE; WF6000P,GI-SGCC,T0.8	SNA	1
4	2	A0352	DC61-02432A	GUIDE SPRING; WF419AAW,POM,T2,W81.5,L36.5	SA	2
5	2	A0353	DC61-01257M	SPRING ETC-HANGER; POTOMAC-PJT,SWPB,CD4.5	SA	2
6	2		DC63-02336A	COVER BACK; WF6000P,GI-SGCC,T0.35	SA	1
7	2	W0620	DC29-00015G	FILTER EMI; LFT-215G,300Khz,VDE, KS,6.5mH	SA	1
8	2		DC92-02379A	ASSY COVER PCB W/HARNESS; WF6000R,WF45R63	SA	1

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
8-1	3	Y0178	DC92-02388A	ASSY PCB MAIN; FWM_INV,WF6000R,328X80mm,Y	SNA	1
8-2	3		DC93-00819A	ASSY WIRE HARNESS-MAIN; DRUM-L,1PUMP,N,N,	SNA	1
9	2	J0013	DC97-20621A	ASSY PUMP DRAIN; WF5500M,WF45M5500AP,NO B	SA	1
9-1	3	I0071	DC61-10673A	CAP DRAIN; WF220ANW,PP,CNTK-P-101,INNER G	SA	1
9-2	3	F0223	DC62-00299A	VALVE CHECK; BIGBANG,NBR,ID28.6/OD33,HS70	SA	1
9-3	3	U2015	DC67-00244K	HOSE DRAIN; HEBA,EPDM	SA	1
9-4	3	U0310	DC97-16991B	ASSY FILTER; DRUM W/M,CLICK HANDLE-FILTER	SA	1
9-4-1	4	J0022	DC63-00909A	FILTER PUMP; PP,T2,INNER GRAY,L75	SA	1
10	2	B0070	DC97-00920S	ASSY LEG; WM PW01 FWM MODEL,K4	SA	2
11	2	B0070	DC97-14293D	ASSY LEG; WM PW01 FWM MODEL,K4	SA	2
12	2	U0111	DC98-04012A	ASSY FIXER TUB; WF8/6000R,LINK CONNECTOR	SA	4
12-1	3	U0320	6011-007676	BOLT-HEX; M10,L124.5,Z9C2,SCM435,A1 PJT	SNA	4
13	2	I0039	DC97-12534L	ASSY HOSE DRAIN; WF6000R	SA	1
13-1	3	N0010	DC61-01679A	CLAMPER HOSE; SEW-HFR177AR,SK5,NATURAL,-	SA	1
14	2	W0105	6006-001174	SCREW-TAPPING; TH,+,WT,2S,M4,L12,ZPC(WHT)	SA	1
15	2	W0105	6006-001174	SCREW-TAPPING; TH,+,WT,2S,M4,L12,ZPC(WHT)	SA	2
16	2		DC61-04889A	GUIDE FRAME FRONT; WF6000R,POM,T1,K300,NA	SA	2
17	2		DC63-02181A	COVER CONNECTOR; WW5500K (SEHC),PP,HB,NAT	SA	1
18	2	W0002	DC96-00757A	POWER CORD-AT; SJT 3x16AWG 105C,GRY,US3S,	SA	1
19	2	H2050	DC96-01703G	SENSOR PRESSURE; Air,5V,L0,400mmH2O	SA	1

3. Assy Tub&Drum Parts

Exploded View



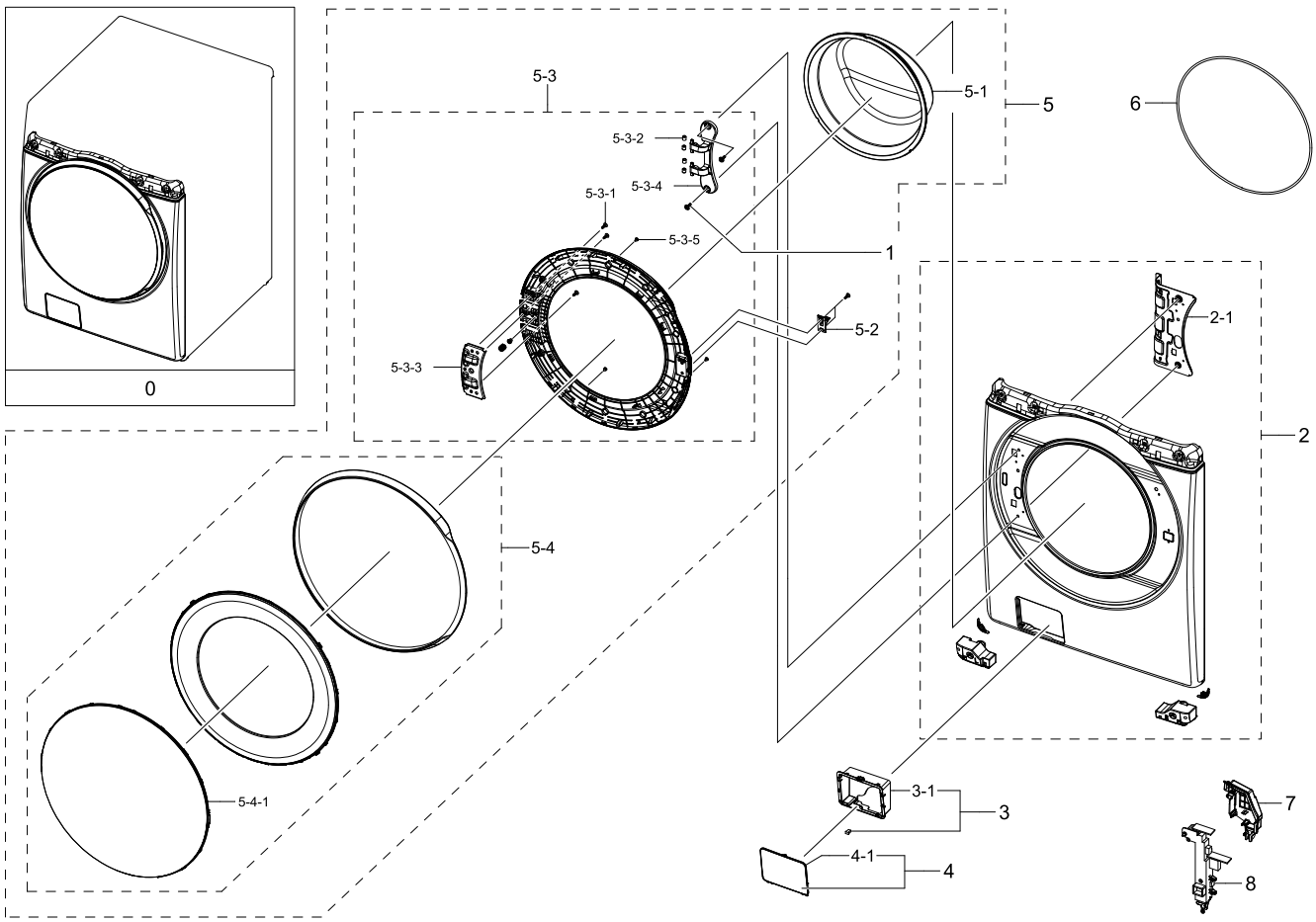
Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
0	1	U0184	DC90-27230A	ASSY TUB & DRUM; WF6000R,WF45R6300	SNA	1
1	2	G0049	6009-001367	BOLT-HEX; M6.5,L32,ZPC(WHT),SWRCH18A,HWH	SNA	16
2	2	U0097	6011-004782	BOLT-ETC; M6,L60,MFZn,SCM435	SA	6
3	2		DC67-00999A	WEIGHT BALANCER; WF6000R,CONCRETE,NATURAL	SA	2
4	2		DC90-27177A	ASSY DRUM PARTS; WF6000R,WF45R6300	SNA	1
4-1	3	R0001	DC97-21456A	ASSY DRUM; WF6000R,4.5CU.FT	SA	1
4-1-1	4	WJ5081	DC60-40137A	BOLT HEX; MARS-PJT,STS430,M8,P1.25,L30,HE	SA	6
4-1-2	4	R0011	DC97-21458A	ASSY DRUM WRAPPER; WF6000R,4.5CU.FT	SNA	1
4-1-2-1	5		DC66-00984A	DRUM LIFTER; WF6000R,PP,OD580,T4,DARK HOL	SA	3
5	2	H0097	DC93-00168G	ASSY DD BLDC MOTOR; A1,COM1500A,F,DC 310V	SA	1

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
5-1	3		DC97-20192B	ASSY ROTOR; COM1500A	SNA	1
5-2	3		DC97-21487A	ASSY STATOR; COM1500A	SNA	1
6	2	W0005	DC93-00818A	ASSY HEATER; WF45R6300AV,125/250V	SA	1
6-1	3		DC47-00042A	HEATER WASH; AC120V,900W,INCOLOY800,328mm	SA	1
6-2	3		DC63-00820D	COVER HEATER; ABS+PC	SA	1
7	2	U0051	DC97-02412A	ASSY BOLT; MOTOR/ M8*L62,,,,,,	SA	6
8	2	U0051	DC97-06080F	ASSY BOLT; WD9500J,30,M12,Washer 38	SA	1
9	2	U0026	DC97-21448A	ASSY TUB FRONT; A1,WF6000R	SNA	1
9-1	3		DC64-03788A	DOOR DIAPHRAGM; WF6000R,TPE,T2,ER7735DA,D	SA	1
9-2	3		DC66-00470D	DAMPER SHOCK; 24" Drum,PP/RUBBER/STS,BLAC	SA	2
9-3	3		DC97-04981F	ASSY CLAMP DIAPHRAGM; PURPLE,WF448AAW,-,-	SA	1
9-4	3	W0601	DC97-14263A	ASSY BOLT; MOTOR/BOLT(M8)+WASHER(OD27.5),	SA	2
9-5	3	P0009	DC97-21466A	ASSY SEMI TUB FRONT; A1,WF6000R	SA	1
9-5-1	4	U0023	DC61-00201A	BRACKET NUT; P1291,PO-SPHC,T3,NO-PAINT/MO	SA	6
9-6	3	I0070	DC97-21474A	ASSY HOSE PRESSURE; 400mmH20,No PBA,WF8/6	SA	1
9-6-1	4	N0010	DC65-00008C	CLAMPER HOSE; DRUM W/M,SK5	SA	2
9-6-2	4	I0003	DC67-00230F	HOSE WATER; WF210,EPDM,ID4.5	SNA	1
10	2	U0013	DC97-21468A	ASSY TUB BACK; A1,HEATER	SNA	1
10-1	3	M0487	DC32-00010C	THERMISTOR; WASHER,-10~100,5,5,3.243k	SA	1
10-2	3		DC61-04878A	BRACKET TUB; WF45P6000,GI-SGCC,T0.35,WF60	SA	1
10-3	3		DC66-00470D	DAMPER SHOCK; 24" Drum,PP/RUBBER/STS,BLAC	SA	2
10-4	3	W0601	DC97-14263A	ASSY BOLT; MOTOR/BOLT(M8)+WASHER(OD27.5),	SA	2
10-5	3	U0001	DC97-21594A	ASSY S.TUB BACK; WF6000R	SA	1
10-5-1	4		DC62-00156A	SEAL OIL; TS85-PJT,NBR,BLK	SA	1
11	2	I0039	DC97-16105B	ASSY HOSE DRAIN; WF6200,WF6500,WF7500	SA	1
11-1	3	B0010	DC65-00014E	CLAMPER HOSE-JOINT; WF6000H,HSWR	SA	1
12	2	U0320	6011-001644	BOLT-HEX; M10,L35,ZPC2,SM10C,DAMPER	SNA	4
13	2	W0105	6006-001174	SCREW-TAPPING; TH,+,WT,2S,M4,L12,ZPC(WHT)	SA	4

4. Assy Front Parts

Exploded View



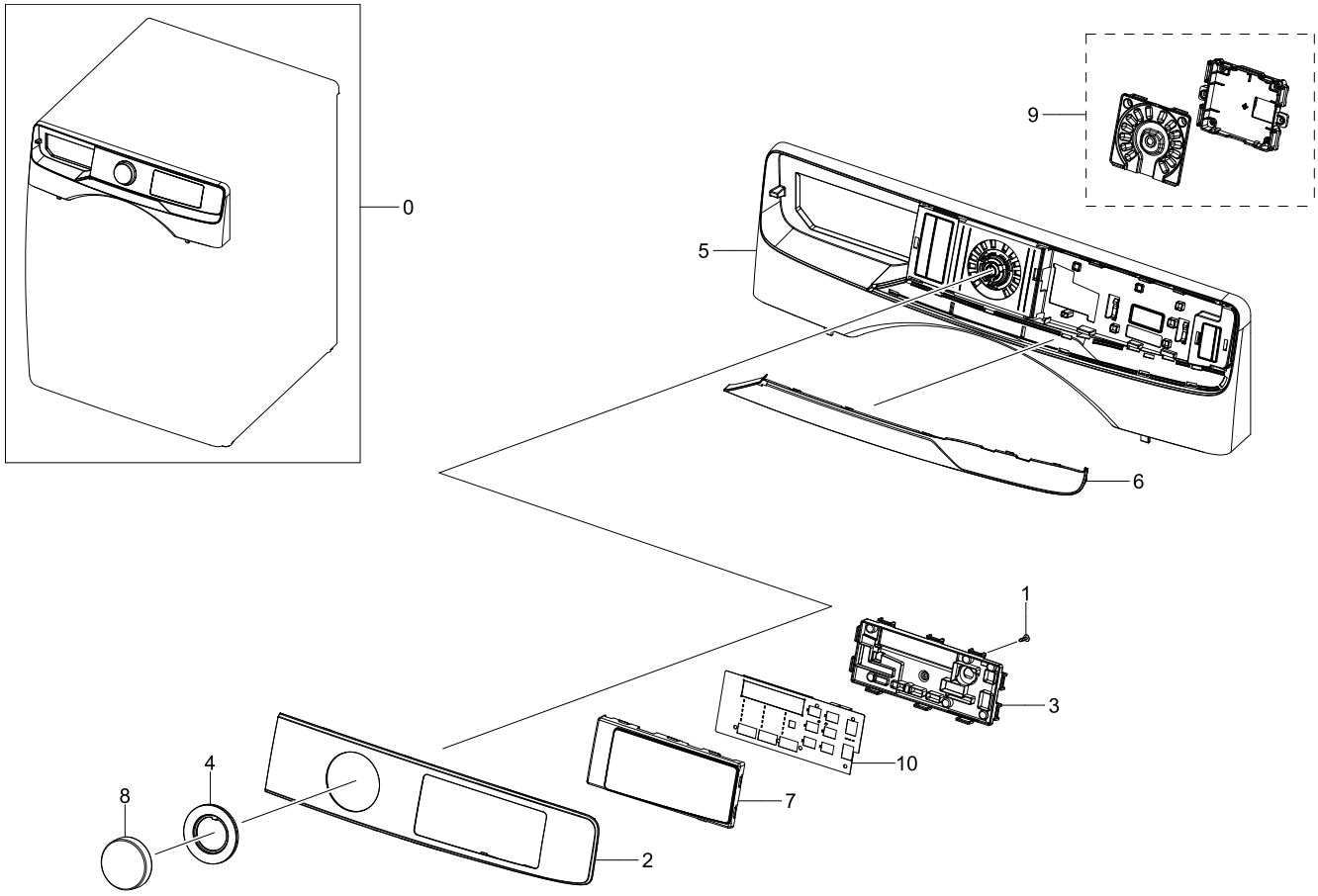
Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
0	1		DC90-27184E	ASSY FRONT PARTS; WF6000R,WF45R6100AS	SNA	1
1	2	G0425	6009-001522	SCREW-HEX; HWH,+,M5,L16,PASS,STS430,FP,SE	SA	2
2	2	F0064	DC97-21446C	ASSY FRAME FRONT; WF6000R,M-DOI,T0.7,Cham	SA	1
2-1	3		DC61-02615A	BRACKET HINGE; WF520ANP,GI-SGCC,T1.4,W161	SA	1
3	2	U0361	DC97-21477A	ASSY CASE FILTER; WF8/6000R	SA	1
3-1	3		DC61-04884A	GUIDE FILTER; WF6000R,PP,T2.5,FC2305,DARK	SNA	1
4	2	I0168	DC97-21478E	ASSY COVER FILTER; WF6000R,Champagne	SA	1
4-1	3		DC63-02349A	COVER FILTER-BACK; WF6000R,ABS,Inox Gray,	SNA	1
5	2	D0001	DC97-21507A	ASSY DOOR; ASSY DOOR,WF45R6100AP/US,TINT,	SA	1

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
5-1	3		DC64-00504C	DOOR GLASS; ALL MODEL,GLASS,ARC/SODALIME	SA	1
5-2	3	D0107	DC66-00375A	LEVER DOOR; 10KG DRUM,ZNDC,T2.5,-,-,-,-,N	SC	1
5-3	3	D0132	DC97-21267A	ASSY HOLDER GLASS; WF6000P	SNA	1
5-3-1	4	Z0063	6001-001668	SCREW-MACHINE; TH,+,M5,L16,PASS,STS430,FP	SA	3
5-3-2	4	WD0090	DC61-00891A	GUIDE HINGE; HAUZEN(DOM),POM,B,white,HING	SA	4
5-3-3	4		DC61-02635A	SUPPORT HINGE; GI-SGCC,T1.4,L175.0,SBHG1-	SA	1
5-3-4	4		DC61-04342A	HINGE DOOR; WV7500M,ALDC,T2.5,ALDC12,DUAL	SA	1
5-3-5	4		DC63-01577D	CUSHION LID; WA8700K,Si,DARK HOLDER GRAY,	SA	3
5-4	3	D0101	DC97-21592A	ASSY COVER DOOR; WF6000R,TINT	SNA	1
5-4-1	4		DC64-03816A	DOOR SAFETY; WF6000R,ABS,T2.5,TX-0510,GRA	SNA	1
6	2	W0021	DC97-04973B	ASSY WIRE DIAPHRAGM; SEW-HFR167AR,-,-,-,-	SA	1
7	2		DC63-02426A	COVER DOOR SWITCH; WF6000R,TPE,T1,DARK HO	SA	1
8	2		DC64-00519D	SWITCH DOOR LOCK; AC120V,16,SOLNOID, DOOR	SA	1

5. Assy Panel Control Parts

Exploded View



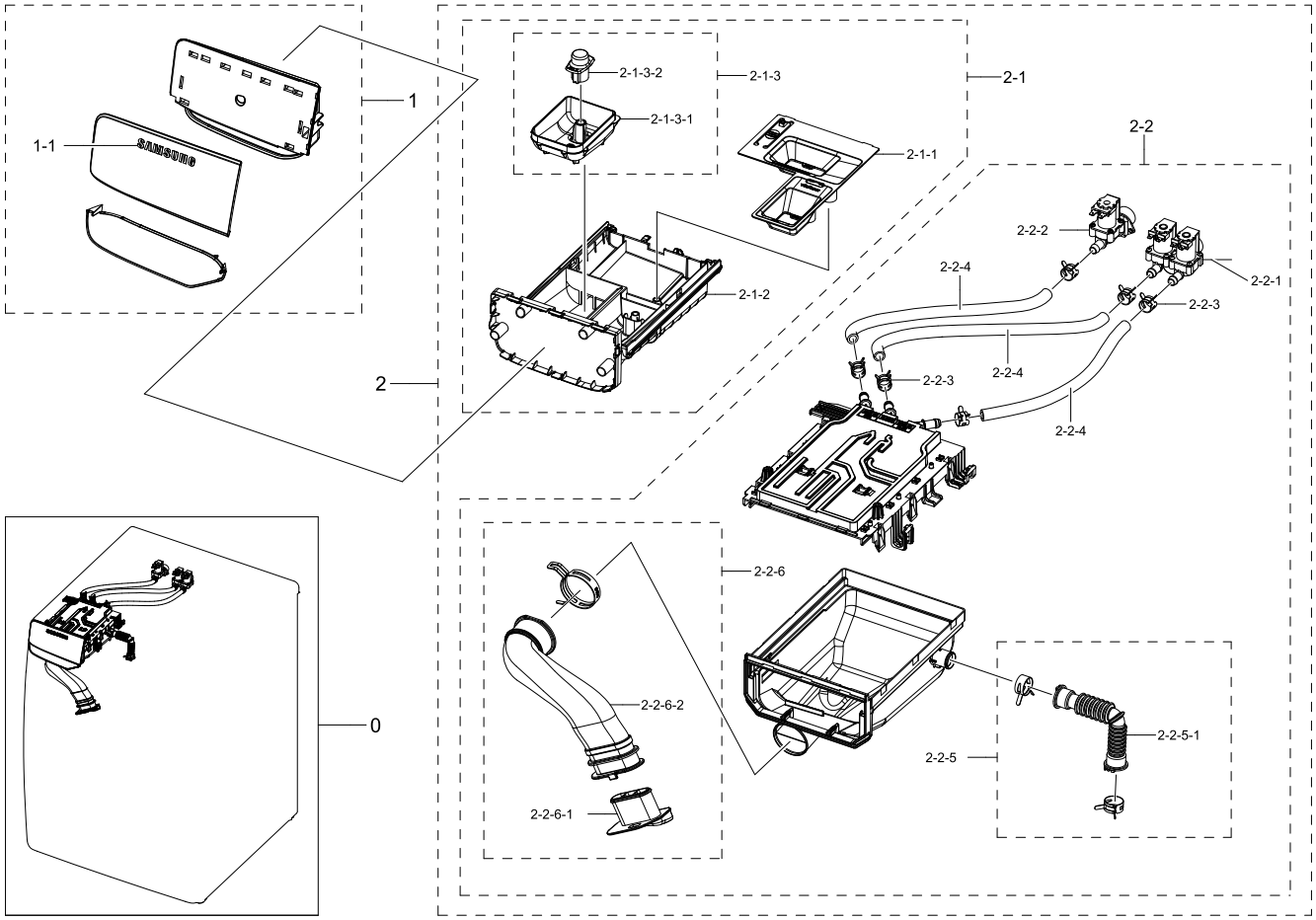
Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
0	1	C0002	DC97-21464G	ASSY PANEL CONTROL; WF45R6100AC	SA	1
1	2	WX0412	6002-000213	SCREW-TAPPING; TH,+,1,M4,L12,ZPC(WHT),SWR	SNA	1
2	2		DC63-02427D	COVER PANEL; WF45R6100AC/US,ABS,T3,INOX G	SNA	1
3	2		DC63-02341A	COVER PBA-SUB; WF6000P,ABS,T2,HB,NEAT WHI	SNA	1
4	2		DC64-03663A	WINDOW ENCODER; WW6800M,PMMA,TF-0959,GRAY	SA	1
5	2		DC64-03813D	PANEL CONTROL; WF45R6100AC,ABS,RM-0760,IN	SNA	1
6	2		DC64-03814B	DECORATION PANEL; WF6000R,ABS,T2.5,SILKY	SNA	1
7	2		DC64-03815E	WINDOW PANEL; WF45R6100AP,ABS,HB,TX-0510,	SNA	1

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
8	2		DC64-03824A	KNOB ENCODER; WA54P7650A*,ABS,NATURAL,MP-	SNA	1
9	2		DC92-02391A	ASSY MODULE; Jog Module,A PJT,cycle 12,St	SNA	1
10	2		DC92-02392B	ASSY MODULE; Touch Module,A PJT,FWM, 4.5,	SNA	1

6. Assy Drawer Parts

Exploded View



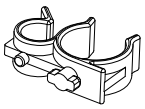
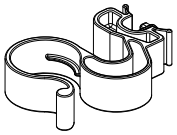
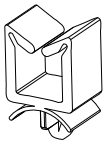
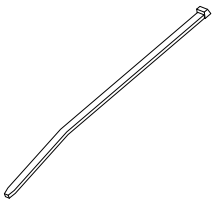
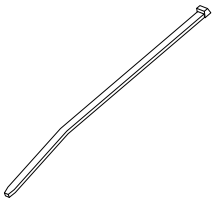
Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
0	1		DC90-27183E	ASSY DRAWER PARTS; WF6000R,WF45R6100AS	SNA	1
1	2	R0025	DC97-21427B	ASSY PANEL DRAWER; WF6000R,WF45R6100AC/US	SA	1
1-1	3	C0106	DA64-04020A	MASCOT; ALL,Ni,L80	SA	1
2	2	R0090	DC97-21483A	ASSY HOUSING DRAWER; WF8/6000R	SA	1
2-1	3	R0017	DC97-21423A	ASSY S.DRAWER; A1 PJT,WF6000R	SNA	1
2-1-1	4		DC61-04859A	CASE BLEACH; WF6000R,PP,T1.5,Honesty Blue	SNA	1
2-1-2	4		DC61-04862A	BODY DRAWER; WF6000R,PP,NEAT WHITE,WT0041	SNA	1
2-1-3	4	P0011	DC97-21434A	ASSY DETERGENT; A1 PJT,WF6000R	SNA	1
2-1-3-1	5		DC61-04863A	GUIDE DETERGENT; WF6000R,PP,T1.8,PTN960,H	SNA	1

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
2-1-3-2	5		DC67-01060A	CAP DRAWER; WF6000R,PP,T2,PTN960,Honesty	SNA	1
2-2	3	R0090	DC97-21472A	ASSY HOUSING DRAWER; WF8/6000R	SNA	1
2-2-1	4	W0032	DC62-30312J	VALVE WATER; AC110-127V,Bracket, 180,1i	SA	1
2-2-2	4	W0032	DC62-30314K	VALVE WATER; AC110-127V,,,,Bracket, 180	SA	1
2-2-3	4	W0615	DC65-00008B	CLAMPER HOSE; SSEC-GE,SK5,-,Dacromet,T1.0	SA	6
2-2-4	4	W0151	DC67-00051F	HOSE DRAWER; WF8502NHW,EPDM,AEGIS	SA	1.29
2-2-5	4	I0020	DC97-21462A	ASSY HOSE AIR; WF8/6000R,A1	SNA	1
2-2-5-1	5		DC67-01054A	HOSE AIR; WF6000R,EPDM,BLACK	SNA	1
2-2-6	4	R0151	DC97-21484A	ASSY HOSE DRAWER; WF8/6000R	SNA	1
2-2-6-1	5		DC61-04877A	GUIDE WATER; WF6000P,PP,T2,FC2210,INOX GR	SNA	1
2-2-6-2	5		DC67-01053A	HOSE DRAWER TUB; WF6000R,EPDM,ID43.5,T2,B	SNA	1

7. Small Parts

Exploded View

				
1	2	3	4	5
				
6	7	8	9	

Parts List

No.	Lvl.	Loc.	Material Code	Description & Specification	SNA	Qty.
1	2	M0047	DC61-01736B	HOLDER WIRE; WF337AAW,PA,T2.3,NATURAL,-	SNA	1
2	2	W0616	DC61-00133A	CLAMPER HOSE-FIX; P1291,PP,-,HOSE+PLUG,BJ	SNA	1
3	4	A0088	DC61-02706A	HOLDER HOSE; WF210ANW,PA,T2,NATURAL,PA6,B	SA	2
4	2	W0616	DC61-00118A	CLAMP-CABLE; P1291,PA66,NATURAL,NC0001	SA	1
5	4	M0047	DC61-60074A	HOLDER WIRE; PA,-,NATURAL,-,101F,rectangl	SNA	5
6	2	M0047	DC61-02436A	HOLDER WIRE; PA,T2.5,W24,L42.0,NTR	SA	2
7	2	U0363	6502-000127	CABLE CLAMP; DAWH-18NB,PA66,NTR	SNA	1
8	2	A0354	6501-000121	CABLE TIE; DA-368,T1.5,W7.6,L370,NTR,NYLO	SNA	1
9	4	A0354	DC65-10001A	CABLE TIE; CT-140,T1.1,W3.5,L145,NTR,NYLO	SNA	1

Service TIP

SAMSUNG

Title	HC/HE, 4C2 and 4C Errors		
Revised	May 10th , 2019	Affected Models	All Washers
Symptom	Operation	Error Displayed	HC/HE, 4C2 and 4C Error

Symptom

① **HC/HE Error displayed or stored in memory.**

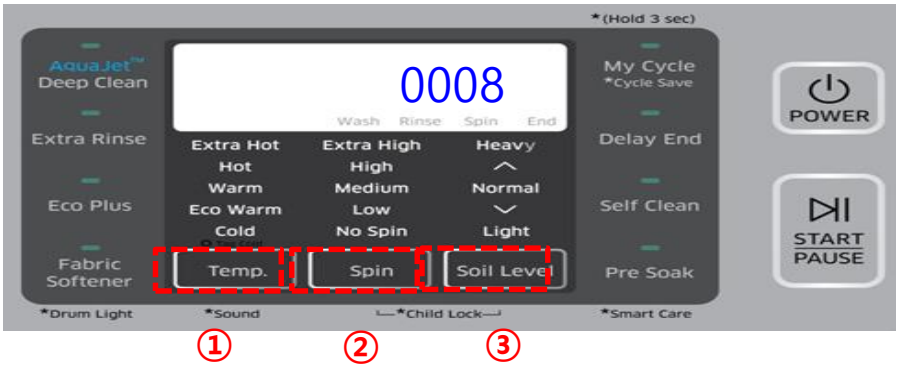
HC/HE error is displayed when the water temperature exceeds 93℃ for 5 Seconds.

② **4C2 Error Code is displayed.**

- 4C2 is displayed when the cold water supply temperature is over 55 ℃.
- If the drainage water temperature reaches 60℃, the unit will repeat "Filling and Draining".

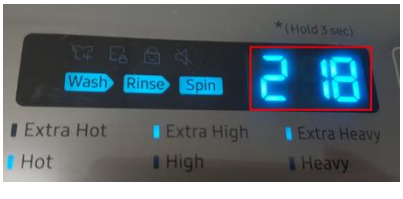
IMPORTANT: Some washers will only display 2 digits for an error code.

- **"4C" is displayed instead "4C2".**
- **If "4C" is display and the water supply is OK, troubleshoot for "4C2" as indicated below.**



With the unit empty, press the above buttons in the following order, ① →③ →② →③, to activate the Data Display Mode. Then, turn the Jog dial (or press SPIN) to select '0008' to view the temperature on the display. Check the temperature.

- **The temperature (with the unit empty, without water) should be room temperature +/_ 10 degree C. If not → Replace the thermistor.**
- **If the temperature displayed keeps changing (does not stabilize) → Replace the thermistor.**



Note: The temperature displayed in the example above is 21.8 degree C.