

SAMSUNG

WASHING MACHINE DRUM TYPE

The model code is on the next page.

SERVICE Manual

REPAIR GUIDE

WASHING MACHINE (DRUM)



WD90T654DBH WD10T734DBH



WD90T984DSH WD80T534DBN WD70T4046EW

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1. Safety Instructions
2. Features and Specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. Wiring Diagram
6. Reference

MODEL CODE

WD1*T*****	WD7*T*****	WD8*T*****		WD9*T*****
WD10T534ABW	WD70T4046CH	WD80T4046CE	WD85T4046CH	WD90T4046EH
WD10T534DBN	WD70T4046EE	WD80T4046CW	WD85T534DBE	WD90T534ABE
WD10T534DBT	WD70T4046EW	WD80T4046CX	WD85T554DBW	WD90T534ABW
WD10T534DBW	WD70T4047CE	WD80T4046EE	WD85T654DBH	WD90T534DBN
WD10T554DBN	WD70T4049CE	WD80T4046EW	WD85T984DSH	WD90T534DBW
WD10T634DBH	WD70T554DBE	WD80T4047CH	WD8ET4049CE	WD90T534DBX
WD10T634DBN	WD70T654DBN	WD80T4047EE	WD8ET554ABW	WD90T554DBN
WD10T654ABH	WD70TA046BE	WD80T4049CE	WD8ETA049BX	WD90T554DBT
WD10T654CBH	WD70TA046BH	WD80T534ABE	WD8FT4049EE	WD90T554DBW
WD10T654CBX	WD70TA046BN	WD80T534DBN	WD8TT534ABE	WD90T634ABH
WD10T654DBE	WD70TA049BE	WD80T534DBT	WD8XT554ABE	WD90T634CBN
WD10T654DBH	WD71TA049BE	WD80T534DBW	WD8XT754AWH	WD90T634DBE
WD10T654DBN	WD75T4046CE	WD80T554ABE		WD90T634DBH
WD10T704DBX	WD75T534DBE	WD80T554ABT		WD90T634DBN
WD10T734DBH	WD75T554DBE	WD80T554CBT		WD90T654ABE
WD10T734DBX	WD7ETA049BE	WD80T554CBX		WD90T654ABH
WD10T754ABT		WD80T554DBE		WD90T654DBE
WD10T754CBH		WD80T554DBT		WD90T654DBH
WD10T754CBX		WD80T554DBW		WD90T654DBN
WD10T754DBH		WD80T554DBX		WD90T654DBX
WD10T754DBN		WD80T604DBX		WD90T734ABH
WD10T754DBX		WD80T634ABH		WD90T734DBH
WD10TA046BE		WD80T634DBE		WD90T734DBX
WD10TA046BX		WD80T634DBH		WD90T754ABH
WD10TP34DSH		WD80T634DBN		WD90T754ABT
WD10TP34DSX		WD80T654ABH		WD90T754DBH
WD10TP54DSX		WD80T654AWH		WD90T754DBN
WD11T4046CH		WD80T654CBE		WD90T754DBX
WD11T554AWW		WD80T654DBE		WD90T954ASH
WD11T554DWW		WD80T654DBH		WD90T954ASX
WD11T604DBE		WD80T654DBN		WD90T954DSH
WD11T604DBN		WD80T754ABH		WD90T984ASE
WD11T704DBX		WD80T754ABN		WD90T984ASH
WD11T734DBN		WD80T754DWH		WD90T984DSH
WD11T734DWT		WD80T954DSH		WD90T984DSX
WD11T754AWH		WD80TA046BE		WD90TA046BE
WD11T754DBX		WD80TA046BH		WD90TA046BX
WD11TA046BE		WD80TA046BN		WD91T984ASH
WD11TA046BN		WD80TA046BX		WD91TA049BE
WD11TA046BX		WD80TA047BT		WD92T654CBE
WD12T654DBH		WD80TA049BE		WD92T734CBT
WD12T654DBN		WD81T4049CE		WD94T754CBT
WD12T754DBN		WD81T534ABW		WD95T4046CE
WD13T604DBN		WD81T554ABW		WD95T534CBE
WD13T704DBH		WD81T754ABH		WD95T634CBH
WD13T704DBX		WD81TA049BE		WD95T634DBH
WD13T734DBN		WD82T4047CE		WD95T754DBH
WD13T754DBN		WD83T734CBH		WD95T754DBN
WD13T784DBX		WD83TA047BH		WD95T954ASE
WD13T784DSX		WD84T634CBE		WD95T984DSX
WD15T634CBH		WD85T4046CE		WD95TA047BE

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1. SAFETY INSTRUCTIONS

1-1. SAFETY INSTRUCTIONS

- ▶ Make sure to observe the following instructions to operate the product correctly and safely and prevent possible accidents and hazards while servicing.
 - ▶ Two types of safety symbols, Warning and Caution, are used in the safety instructions.
-



Hazards or unsafe practices that may result in severe personal injury or death.



Hazards or unsafe practices that may result in minor personal injury or property damage.

- ▶ Following the repair by a non-authorised service provider, self-repair or non-professional repair of the product, Samsung is not liable for any damage to the product, any injury or any other product safety issue caused by any attempt to repair the product which does not carefully follow these repair and maintenance instructions. Any damage to the product caused by an attempt to repair the product by any person other than a Samsung certified service provider will not be covered by the warranty.

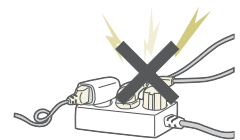


WARNING

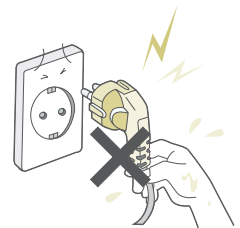
BEFORE SERVICING

- (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.
-

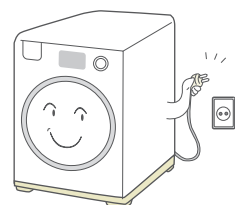
- Advise consumers not to connect several appliances to a single power outlet at the same time.
 - ✓ There is a risk of fire due to overheating.



- 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 or power outlet 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 result in accidental operation of the washing machine.



- 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.
-

**WARNING****WHILE SERVICING**

-
- Check if the power plug and outlet are damaged, flattened, cut or otherwise degraded.
 - ✓ If faulty, replace it immediately.
 - 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 due to tracking and shorts in advance.
-
- When connecting wires, make sure to connect them using the relevant connectors and check that they are properly connected.
 - ✓ Do not use tape instead of the connectors, it may cause fire due to tracking.
-
- 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 and causes noise and electric leakage.
-
- Do not repair the washing machine without safety gloves.
 - ✓ It can cause injury.
-

**WARNING****AFTER SERVICING**

-
- Check the wiring.
 - ✓ Ensure that the wiring can not be damaged by any sharp edges or moving parts.
-
- Check for any water leakage.
 - ✓ Perform a test run for the washing machine using the standard course and check whether there is any water leakage through the floor section or the pipes.
-
- Advise consumers not to repair or service any part of the washing machine themselves.
 - ✓ This may result in personal injury and shorten the product lifetime.
-

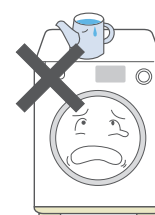


**CAUTION****BEFORE SERVICING**

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



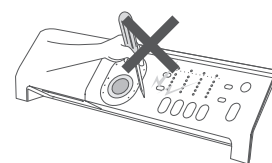
- Do not place any containers with water or any other liquid on the washing machine
 - ✓ If the water is spilled, it may result in electric shock or fire. This will also shorten the product lifetime.



- 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.
 - ✓ Take care when disconnecting connectors, do not use excessive force as this may damage the connector.



- Check if there is any residue that shows that liquid entered the 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 for servicing purposes, place a support(s) on the floor and lay it down carefully so its side is on the floor.
 - ✓ Do not lay it down on its front. This may result in the inside tub damaging parts.

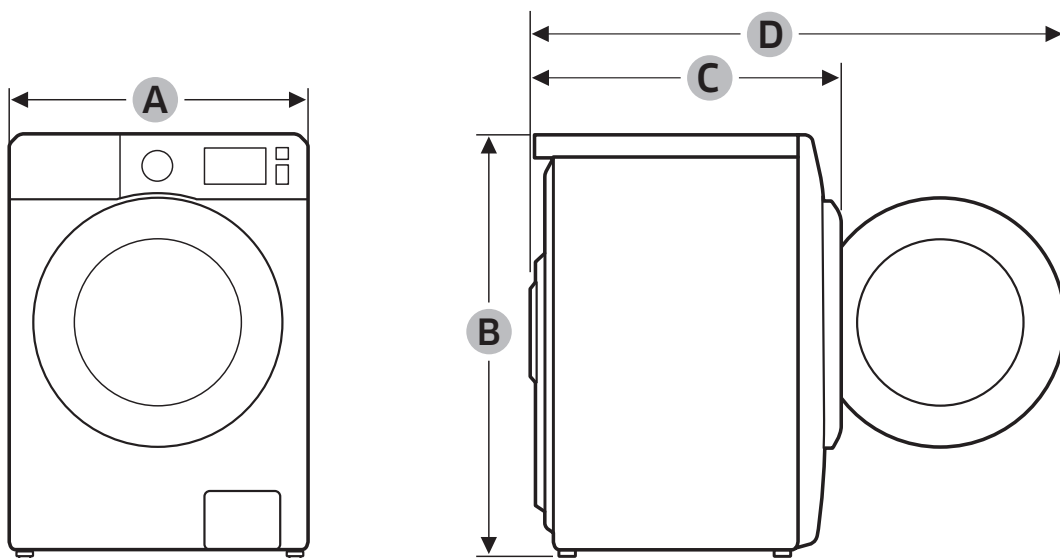
- At least two people should work when working with heavy products.

2. FEATURES AND SPECIFICATIONS

2-1. SPECIFICATIONS

MODEL			WD90T654DBH	WD10T734DBH	WD90T984DSH	WD80T534DBN	WD70T4046EW
Model Name			Front loading washing machine				
Water Pressure			50kPa-800kPa				
NET weight (kg)			68	80	86	68	63
Wash & Spin Capacity			9	10.5	9	8	7
Dry Capacity			6	6	6	5	4
Power Consumption	Washing	220V	150W				
		240V	150W				
	Washing and heating	220V	2000W				
		240V	2400W				
	Drying	220V	1600W				
		240V	1600W				
	Spin	220~240V	550W	600W	600W	550W	550W
Pumping			30W				
Spin revolutions			1400	1400	1400	1400	1400

- Please visit Samsung official website to receive most up-to-date information about software and product maintenance.

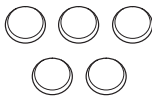
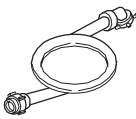
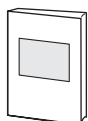


Model	WD90T654DBH	WD10T734DBH	WD90T984DSH	WD80T534DBN	WD70T4046EW
Width (A)	600mm				
Height-Overall (B)	850mm				
Depth (C)	650mm	600mm	600mm	600mm	550mm
Depth with door open 90° (D)	1160mm	1110mm	1110mm	1110mm	1060mm

2-2. COMPARING SPECIFICATIONS WITH EXISTING MODELS

Model name		WD90T654DBH	WD10T734DBH	WD90T984DSH	WD80T534DBN	WD70T4046EW	WD10K64****
Image							
Capacity		9	10.5	9	8	7	10.2
Dry Capacity		6	6	6	5	4	6
Main Spec	Drum Volume	63	70.5	65.9	58	60.1	63
	Max RPM	1400	1400	1400	1400	1400	1400
	Motor	DD	DIT	DIT	DD	DD	DD
	Water Supply	Cold only	Cold only	Cold only	Cold only	Cold only	Cold only
	Drainage	Pump	Pump	Pump	Pump	Pump	Pump
USP	ECO BUBBLE	●	●	●	●	●	●
	Add Wash	●	●	●	●	X	●
	Steam	●	●	●	●	●	X
	AOW/AD	X/X	X/●	●/●	X/●	X/X	X
	Bubble Soak	●	●	●	●	●	●
	Super Speed	●	●	●	X	X	●
	Wifi	●	●	●	●	X	●
	Q-Drive	●	●	X	X	X	X
Design	DOOR	Good	Tint Door (Better)	Tint Door (Best)	Basic	Basic	Crystal Gloss
	Drum	2nd Diamond	Swirl+	Swirl+	2nd Diamond	2nd Diamond	Diamond
	DISPLAY	Simple	Simple	Simple	Simple	LED	LED
Dimension		600x850x650	600x850x600	600x850x600	600x850x600	600x850x550	600x850x650

2-3. OPTIONS SPECIFICATIONS

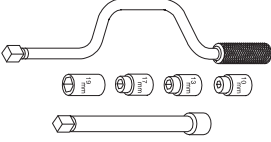
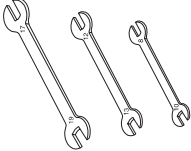
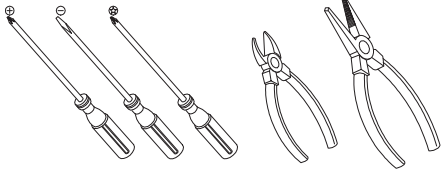
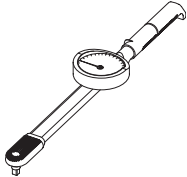
NO	Item		Code	QTY	Remarks
1		FASTENER-BOLT	DC60-00104A	1	Default
2		CAP-FIXER	DC67-00307A	4(8kg model) 5(9kg model)	For specific models only
3		CAP-FIXER	DC67-00208B	1	For specific models only
4		ASSY HOSE WATER	DC97-16921A	★	For specific models only
5		HOSE-WATER (AQUA-STOP)	DC62-00079A	★	For specific models only
6		HOSE-HANGER	DC62-10278A	1	Default
7		GUIDE LIQUID	DC61-03510A	1	Default
8		MANUAL USERS	DC68-03745* series	1	Default

Note

- (★) is supplied for specific models only among those without water supply hoses.
- Customer can purchase additional water supply and drain hoses from a service center.
- For built-in models, the spanner, water supply and drain hoses are not supplied. Both the water supply and drain hoses are supplied during the installation.

3. DISASSEMBLY AND REASSEMBLY

3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

Tool	Type	Remarks
	Box driver	10mm Heater(1), Tub(12), Fixer screw(5), Motor(2), Balance(9) 13mm Shock Absorber (2 holes each in left/right), Damper(2), Damper(friction 2) 19mm Pulley(1)
	Double-ended spanner	10mm Replaced by box driver 13mm Leg 19mm
	Vice pliers	A Tool for protecting empty turning of bolt or abrasion from using box driver For disassembly of Spin drum
	Others (screwdriver, nipper, long nose pliers)	Common tools for servicing
	Torque wrench	The Tool for assembly of heater and Tub

- For information about purchasing parts and tool, please visit
<http://www.samsung.com/support>

- For the part code information, please refer the attached file 'Exploded View'.

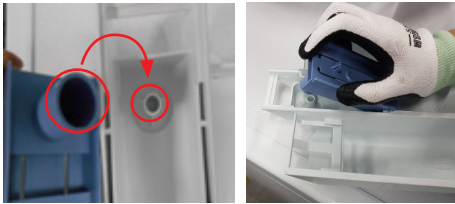
3-2. STANDARD DISASSEMBLY DRAWINGS

- ▶ 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.

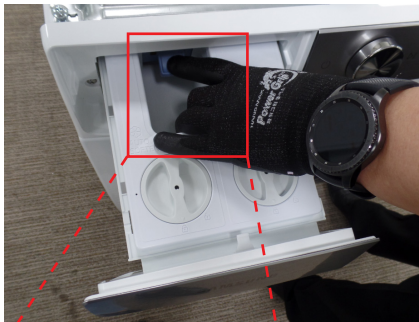
■ Disassembly

Part	Figure	Description
Assy Cover Top		1. Remove 2 screws holding the Cover Top at the back of the unit using (+) screw driver.
		2. Remove the Cover Top by lifting it up after pulling it back about 15mm.
Assy Drawer		1. Open the Drawer by hand
		2. While holding down the release lever inside the drawer (red box), slide open the drawer.
		3. Pull up the Cap Rinse to remove it.

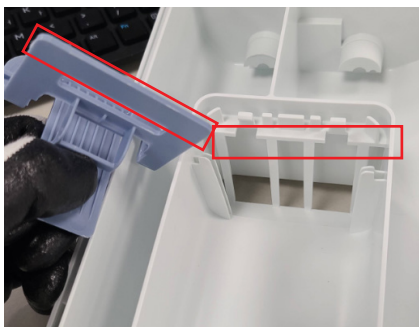
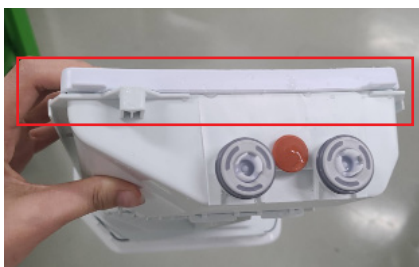
■ Reassembly

Part	Figure	Description
Assy Drawer		1. Fit the hole and press the Cap Rinse so that it can be assembled.
		2. Make sure to fit the rail when reassembling the Assy drawer.
		3. Put the drawer in the right direction.

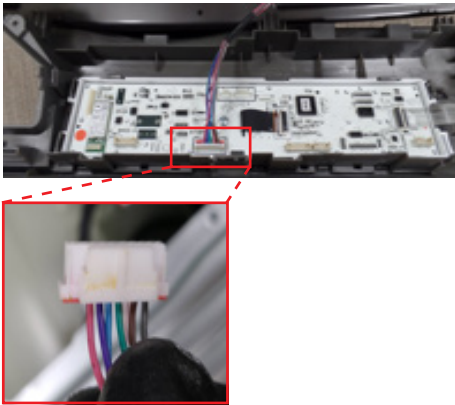
■ Disassembly

Part	Figure	Description
Assy Drawer (Auto Dispense)		1. Pull to open the Drawer by hand.
	 	2. While holding down the release lever inside the drawer (red box) , slide open the drawer.
	 	3. Disassemble the Cover Drawer by hand. 4. Pull up the Cap Rinse to remove it.

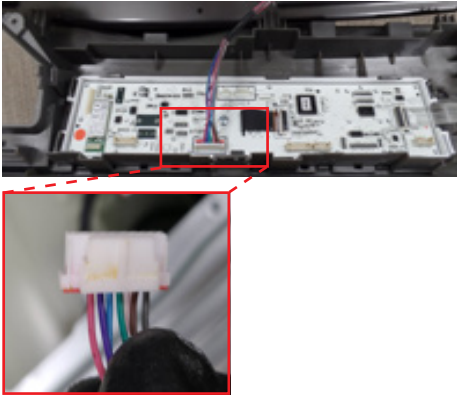
■ Reassembly

Part	Figure	Description
Assy Drawer (Auto Dispense)	 	1. Fit the hole and press the Cap Rinse so that it can be assembled. 2. Assemble the Cover Drawer by hand.
		
		3. Make sure to fit the rail when reassembling the Assy drawer.
		4. Place the drawer in the right direction.

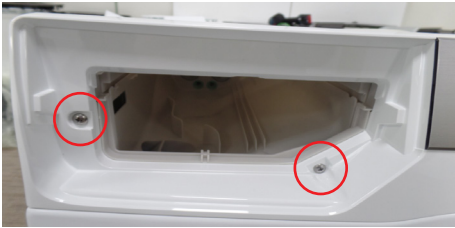
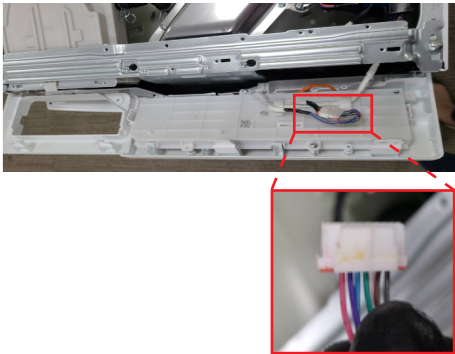
■ Disassembly

Part	Figure	Description
Assy Panel Control (Simple) 		- Before you start, disassemble Assy Cover Top, Assy Drawer. 1. Remove 2 screws holding the drawer and panel using (+) screw driver.
		2. Remove the screws at the top of the ASSY-PANEL CONTROL using (+) screw driver. (3ea)
		3. Grab the panel and slightly push the housing drawer to remove the hook and pull the panel upwards to disassemble with body  Be careful not to break the hook.
		4. Hold the ASSY-PANEL CONTROL while pulling it upwards and disassemble the terminal to remove it. Press the hook while removing the terminal.

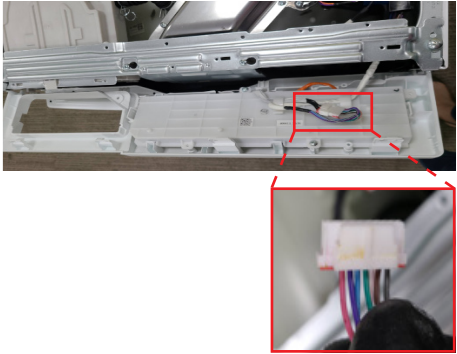
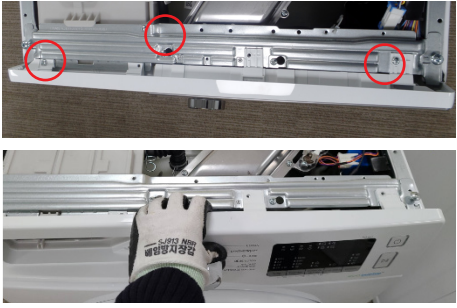
■ Reassembly

Part	Figure	Description
Assy Panel Control (Simple) 		1. Connect the terminal by hand. Take a look at the hook and put it in the right place. ☑ Be careful not to break the hook. ☑ Make sure the Wire harness are not getting stuck in other parts.
		2. Assemble the hook of housing drawer and assemble screws at the top of the ASSY-PANEL CONTROL with (+) screw driver.
		3. Assemble 2 screws holding the drawer and panel with (+) screw driver.

■ Disassembly

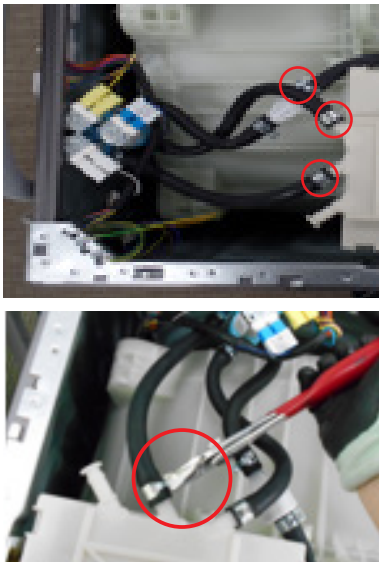
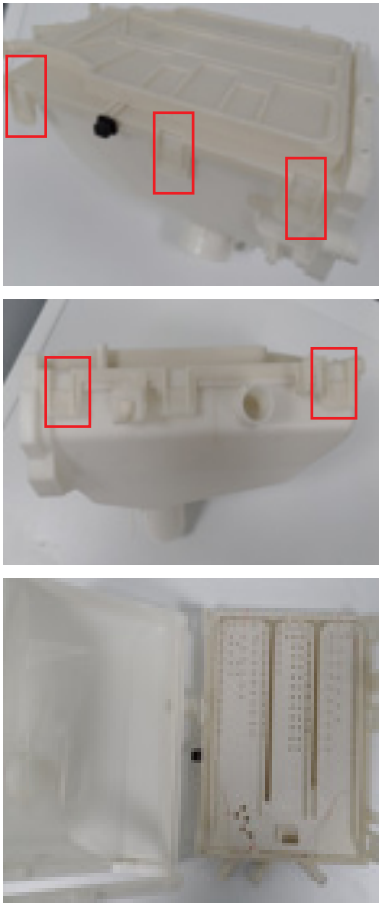
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		2. Remove the screws at the top of the ASSY-PANEL CONTROL using (+) screw driver. (3ea)
		3. Grab the panel and slightly push the housing drawer to remove the hook and pull the panel upwards to disassemble with body.  Be careful not to break the hook.
		4. Hold the ASSY-PANEL CONTROL while pulling it upwards and disassemble the terminal to remove it. Press the hook while removing the terminal.

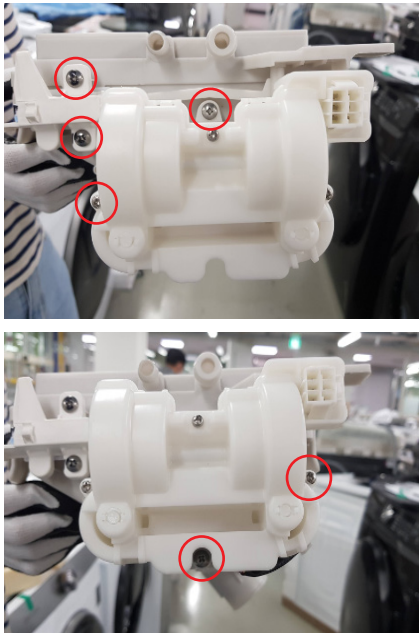
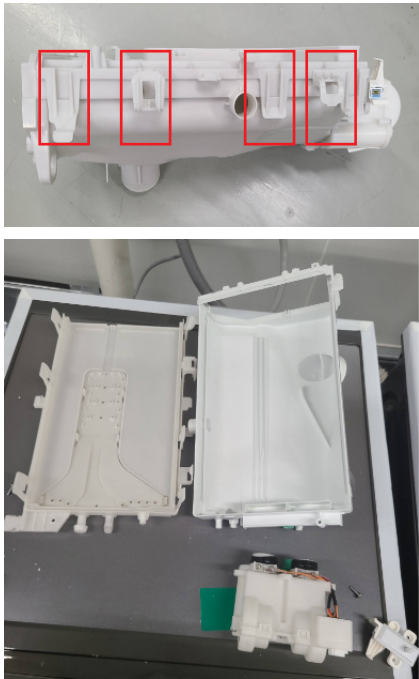
■ Reassembly

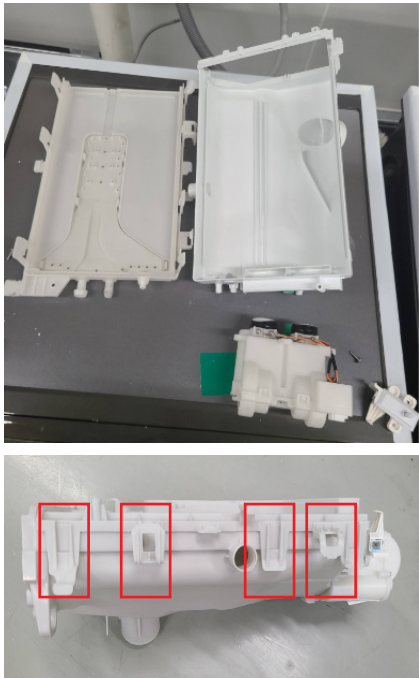
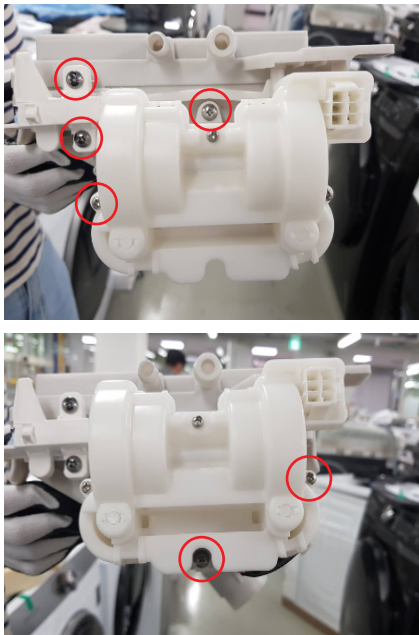
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		2. Assemble the hook of housing drawer and assemble screws at the top of the ASSY-PANEL CONTROL with (+) screw driver. ☒ Be careful not to break the hook.
		3. Assemble 2 screws holding the drawer and panel with (+) screw driver.

■ Disassembly

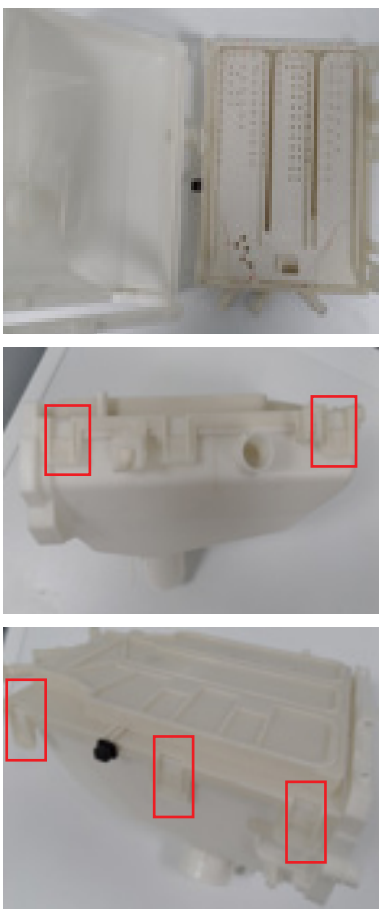
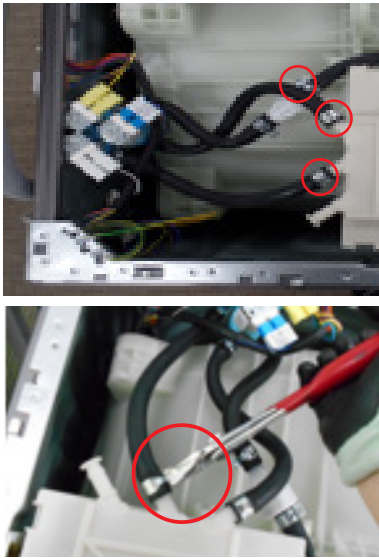
Part	Figure	Description
Assy Housing-Drawer	 	Before you start, disassemble Assy Cover Top, Assy Panel Control. 1. Remove 4 screws to disassemble frame plate-up using (+) screw driver.
	  	2. Remove the Band-ring. (2ea) ☑ Be careful not to break the hose.

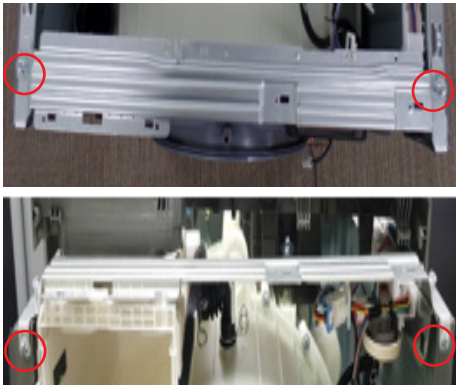
Part	Figure	Description
Assy Housing-Drawer		3. Separate the water valve hose with long nose plier.
		4. Separate Housing Drawer low by pressing the hooks on both sides by hand. To fully separate, disassemble Water Valve.  Be careful not to break the hook.

Part	Figure	Description
Assy Housing Drawer (Auto Dispense)		1. Disassemble the 6 screws holding the pump with (+) screw driver. To fully separate, disassemble Water Valve.
		2. Separate Housing Drawer low by pressing the hooks on both sides by hand. To fully separate, disassemble Water Valve.

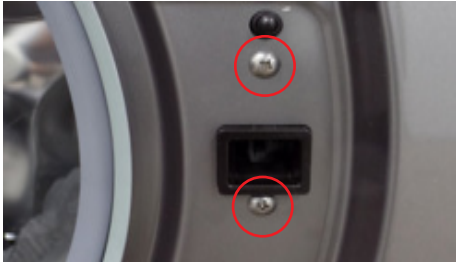
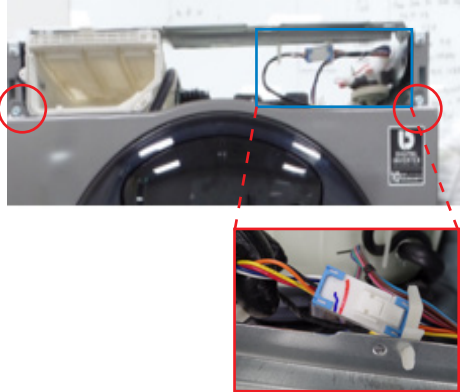
Part	Figure	Description
Assy Housing Drawer (Auto Dispense)		1. Assemble the Housing Drawer low by pressing the hooks on both sides by hand.
		2. Assemble the 6 screws holding the pump with (+) screw driver.

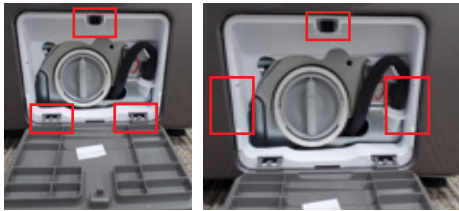
■ Reassembly

Part	Figure	Description
Assy Housing-Drawer		1. Assemble the Housing Drawer low by pressing the hooks on both sides by hand. ☑ Be careful not to break the hose.
		2. Assemble the water valve hose with long nose plier. ☑ Be careful not to break the hook. ☑ Make sure to insert the hoses and assemble the clamp, band rings correctly. There're risks of leakage or poor performance when it's misassembled.

Part	Figure	Description
Assy Housing-Drawer		3. Assemble the Band rings. (2ea) ☑ Make sure to insert the hoses and assemble the clamp, band rings correctly. There're risks of leakage or poor performance when it's misassembled.
		4. Remove 4 screws to disassemble frame plate-up using (+) screw driver.

■ Disassembly

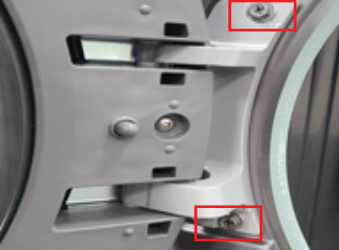
Part	Figure	Description
Frame Front		Before you start, disassemble Assy Cover Top, Assy Panel Control. ☑ Be careful not to tear up the diaphragm. 1. Using long nose pliers, pick up one of the rings on Wire-Diaphragm which connect the spring and the wire ends. Then, separate the Wire-Diaphragm from the FRAME-FRONT and Disconnect the Diaphragm.
		2. Remove 2 screws holding the DOOR-LOCK switch with (+) screw driver.
		3. Disassemble the terminal (the blue box is terminal location) by pressing the blue circle part and remove 2 screws holding the Frame Front with (+) screw driver.
		4. Press the circled place to open up the cover filter.
		5. Remove 3 screws holding the bottom of the FRAME-FRONT with (+) screw driver.

Part	Figure	Description
Frame Front		6. Remove cover filter by hand. 7. Press the hook to remove Guide cover filter using (-) screw driver. ☑ Be careful not to break the hook.
		8. Pull the Guide filter towards you.
		9. Lift Frame front up to disassemble.
Cover-Back		Unfasten 6(Depending on the model, there can be 4 screws) screws that hold the cover back in place with (+) screw driver. Remove the back cover by sliding it up. (When assembling, slide the back cover down.)

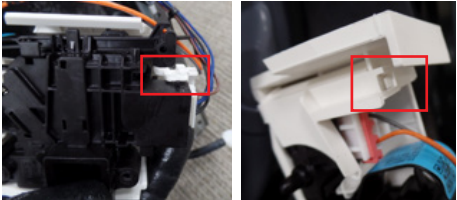
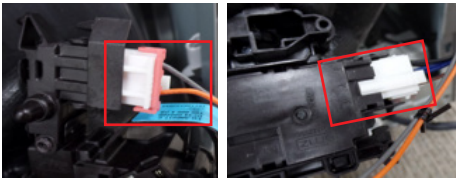
■ Disassembly

Part	Figure	Description
Assy Door		Before you start, disassemble Assy Cover Top, Assy Panel Control and Frame Front. 1. Remove the wire by disassembling the 3 hooks using long nose plier.
		2. Disassemble the terminal and remove the holders using long nose pliers.
		3. Remove 2 screws holding the Assy door. Remove the door by slightly lifting the door.

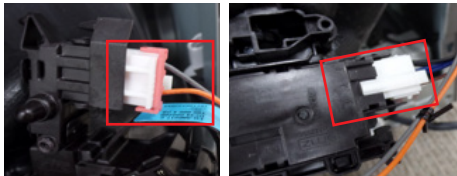
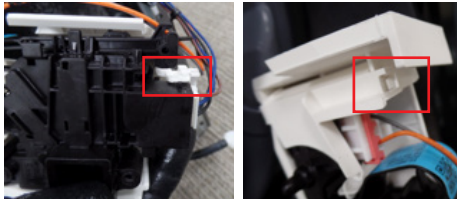
■ Reassembly

Part	Figure	Description
Assy Door	 BACK SIDE FRONT SIDE	Put the terminal through the biggest hole and assemble 3 hooks as shown in the pictures.
		Assemble the door with Frame Front by fitting the two hooks and assemble 2 screws holding the Assy door with (+) screw driver.
		Assemble 3 hooks using hand.
		- Assemble the terminal and the holders. ☑ Make sure the Wire harness are not getting stuck in other parts.

■ Disassembly

Part	Figure	Description
Door-Lock S/W		Before you start, disassemble Assy Cover Top and Assy Panel Control. 1. Open the Door. Remove the Wire Diaphragm and remove the Frame Front.
		2. Remove 2 screws with (+) screw driver.
		3. Remove Cover Door Switch by gently pushing the red box part with (-) screw driver.
		4. Disassemble the terminals. (2ea)

■ Reassembly

Part	Figure	Description
Door-Lock S/W		1. Assemble the terminals. (2ea) ☒ Make sure the Wire harness are not getting stuck in other parts.
		2. Assemble the Cover Door Switch by gently pushing the red box part with hand. ☒ Make sure the Wire harness are not getting stuck in other parts.
		3. Assemble the screws with (+) screw driver. (2ea) 4. Assemble the wire diaphragm and Frame Front. If the wire diaphragm is loose after assembly or is not correctly assembled at the correct position (5 o'clock or 7 o'clock), water leakage may occur.

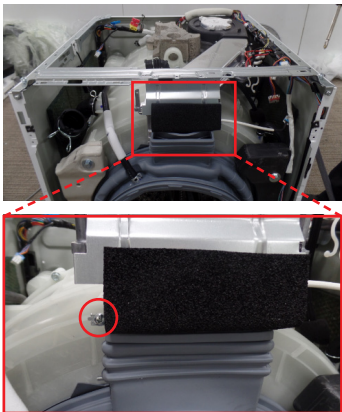
■ How to force open the locked Door

Part	Figure	Description
Door-Lock S/W		Before you start, disassemble Cover Top first 1. Put your hand to press the Door-Lock Switch. (The location you need to press is shown in the picture with arrow)

■ Disassembly

Part	Figure	Description
Diaphragm		Before you start, remove cover top, Assy Drawer, Assy Panel Control and Frame Front. 1. Unfasten the screw with (+) screw driver on Joint Diaphragm and wire diaphragm.
		2. Remove Joint Diaphragm by hand. 3. Remove hose and clamp with long nose plier.
		4. Pull diaphragm towards you. ☒ Be careful not to rip diaphragm.

■ Reassembly

Part	Figure	Description
Diaphragm		1. Assemble the Diaphragm with tub by hand. Diaphragm and tub has triangle part make sure to fit them correctly.
	 	2. Assemble hose and clamp with long nose plier, and fasten the screw with (+) screw driver.
		3. Assemble Joint diaphragm and fasten the screw with (+) screw driver.

4. TROUBLESHOOTING

4-1. INFORMATION CODE

- When an abnormal condition occurs, melody sounds and displays Info. code indications as shown in the following Info. codes are shown until the status has cleared.

No.	Information Type	Information Code	Causes	Corrective Actions
1	Water Level	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	• Water level sensor fault. • The water level sensor terminal is disengaged. • The part of the hose where the water level sensor folded. • Main PCB fault.
2	Motor	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) - Foreign material (a screw) has entered the motor.	• Washing motor fault. • Check Washing motor connector . • Washing motor rotor/stator fault. • Main PCB fault .
		3C1	- Motor overloaded due to too much laundry (Non sensing) - PBA fault	
		3C2	- The motor driving error from the PBA is weak : Unstable relay operation, etc.	
		3C3	- The IPM terminal of the main PBA is not connected. - The DD motor cover is out of place.	
		3C4	- The PCB housing terminal is not connected. - PBA fault - DD motor fault	
3	Water Supply	4C	- Foreign material is entering the water supply valve. - The water supply valve terminal is not connected. (Wire disconnected) - 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 transparent hose is folded or torn. - This occurs Water pressure is weak, a certain time delay. - This occurs Water Valve by freezing in winter season.	• Water supply valve fault. • Main PCB fault. • Freezing by winter season.
		4C2	- The water temperature is sensed as higher than 50 °C in the Wool or Lingerie courses	-
4	Drain	5C	- The pump motor impeller is damaged internally. - The wrong voltage (220 V → 110 V) 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) - Clogged with foreign material. - The water pump terminal is not connected : rubber band, bills, cotton, hair pins, coins.	• Drain pump fault. • Freezing by winter season. • Check inside foreign material of drain pump. • Main PCB fault.

No.	Information Type	Information Code	Causes	Corrective Actions
5	Communication	AC	- The signals between the sub and main PBAs are not sensed because of a communications 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.	• Main PCB and Sub PCB Signal Detection fault. • Main PCB and Sub PCB wire connection fault.
6	SWITCH (Main relay)	BC2	- 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.	• When pressed Power button. • When pressed button except for power button. • Main PCB relay fault.
7	COOLING	CC	- When the temperature of the water is greater than or equal to 55 °C, this code appears when the machine does not drain. (reason : It is unsafe for hot water to drain as may burn if touched). - Temperature sensor fault, or incorrect use.	• Washing temperature sensor check. • Description PL Accident prevention.
8	DOOR	dC	- A switch contact error because of a deformation of the door hook. - When the door is pulled by force. - This occurs in the hot washes because the door is pushed due to a pressure difference from internal temperature changes. - S/W contact fault because of LID TC "L" transformation.	• Door lock switch fault. • Drain pump fault. • Dry duct fan motor fault. • Main PCB fault.
		dC1	- The door lock switch terminal is connected incorrectly. - The door lock switch terminal is broken. - This occurs due to Low insulation of the wiring assy - Main PCB fault	
		dC2	- This occurs if the Power switch is turned on/off continually and too much heat is generated (This error is difficult to be reproduced.)	
9	HEATER	HC	- The washing heater is short-circuited or has a wire disconnected.	• Heater fault. • Red temperature sensor at the center of the dry heater. • Steam function fault. • Freezing by winter season.
		HC1	- 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.	
		HC2	- This error occurs when the red temperature sensor at the center of the dry heater operates (at a temperature higher than 145 °C) : Corrective action – Press the button at the center lightly. The washing machine will operate normally. Alternatively, replace the temperature sensor if the temperature sensing is unstable because of functional degradation.	

No.	Information Type	Information Code	Causes	Corrective Actions
10	Water Leakage	LC LC1	- 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.	• Check Water Leakage. • DV CASE foreign material occurs. • Leakage of the product inside the hose and parts molded problem.
11	OVER FLOW	OC OF	- 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 may occur when the sensor is faulty or the pressure tube is blocked or damaged.	• Water level sensor fault. • Freezing by winter season .
12	Temperature Sensor	TC1	- The washing heater in the tub has an error. (Contact error, 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.	• Washing temperature sensor check. • Dry temperature sensor check • Dry condensing temperature sensor check. • Problems caused by the main PCB fault. • Problems caused by the freezing in winter.
		TC2	- The temperature sensor for the duct assy fan housing is faulty. (A sensor fault such as an internal short-circuit or wire disconnection) - The connector is out of place or has a contact error.	
		TC3	- This occurs when the duct condensing temperature sensor is open. - This occurs when the duct condensing temperature sensor has a wire disconnected or is short-circuited.	
13	UNBALANCE	UB	- As laundry causes this error, check the laundry. - Find the reason for the unbalance and solve it as directed in the user manual.	• This occurs by laundry.

No.	Information Type	Information Code	Causes	Corrective Actions
14	Power	UC (9C)	- Power condition fault. - This occurs when under or over voltage is supplied. - Extension lead or plug adapter is being used. - Main PBA fault (sometimes)	• Check the power supply, polarity and voltage. • Select a hot wash or dry cycle (wd only), measure the voltage supplied during heating. (A error occurs when under voltage is detected.) * Safety ensure safe working practices observed when testing live appliance. • Check if a socket outlet adaptor is being used. • Main PCB fault (sometimes)
15	Mems PBA	8C	- Error detected in the Mems PBA or data error detected.	• Check the wire connections. Replace if necessary. 1. Check the wire connections. 2. Replace the Mems PBA. 3. Main PBA wire connection error or PBA's silver nano part malfunction. Replace if necessary.
16	Add Door	DDC	- A switch contact error because of damage to the Add Door switch. - When the add door is pulled by force. - This occurs in the hot wash because the add door is pushed due to a pressure difference from internal temperature changes. - S/W contact fault because of LID TC "L" transformation.	• Add door open/close switch fault. • Main PCB fault.
		DC3	- The Add Door lock switch terminal is connected incorrectly. - The Add Door lock switch terminal is broken. - This occurs due to Low insulation of the wiring assy. - Main PCB fault.	• Add door lock switch fault. • Main PCB fault.
17	Detergent Drawer Motor	6C	- Auto detergent dispense motor constrain - Auto detergent dispense motor wiring - Auto detergent dispense motor not operate	• Check motor operation by pressing the laundry when you enter auto detergent dispenser. • If not operation change ASSY PUMP DRAIN.
18	Auto Dispense	6C1	- The input arrest of the detergent motor is sensed.	Check the wire and if necessary replace it. 1. Check Wire connection 2. Replace Assy Pump
		6C2	- The non-operation of the detergent motor is sensed.	
		6C3	- The in put arrest of the fabric softener motor is sensed.	
		6C4	- The non-operation of the fabric softener motor is sensed.	
		6C5	- The motor motion perception sensor fault	
		6C6	- The detergent level perception sensor fault	
		6C7	- The fabric softener level perception sensor fault	

4-2. PROBLEM CHECK POINT

PROBLEM	SOLUTION
The washing machine won't start.	• Make sure the washing machine is plugged in. • Make sure the door is properly closed. • Make sure the water tap is open. • Tap Start or Press Start/Pause button again.
Water supply is insufficient, or no water is supplied.	• Open the water tap fully. • Make sure the water supply hose is not frozen. • Make sure the water supply hose is not kinked or clogged. • Clean the filter on the water supply hose.
The washing machine vibrates badly, or makes noise.	• Make sure the washing machine is installed on a level floor. If the floor is not level, use the leveling feet to adjust the level. • Make sure that the shipping bolts are removed. • Make sure the washing machine is not touching any other object. • Make sure the laundry load is balanced.
The washing machine does not drain and/or spin.	• Make sure the drain hose is straightened all the way to the drain system. • Make sure the debris filter is not clogged.
The door won't open.	• Press the Start/Pause button to stop the washing machine. • The door stays locked as long as the washing machine is still hot inside after a heating operation. • It may take several seconds to disengage the door lock mechanism.
Button Check	• bC occurs. Refer the bC troubleshooting.
Can I open the Add Door at any time?	• The Add Door can be opened only when the indicator appears. However, it does not open in the following cases: - When the water temperature is above 55deg or the drying process is running, when the drum is rotating, at any point on the ECO drum clean cycle. - If you set the Child Lock for safety reasons. - When the drum wash or drum drying cycle is running that does not involve additional laundry.

5. WIRING DIAGRAM

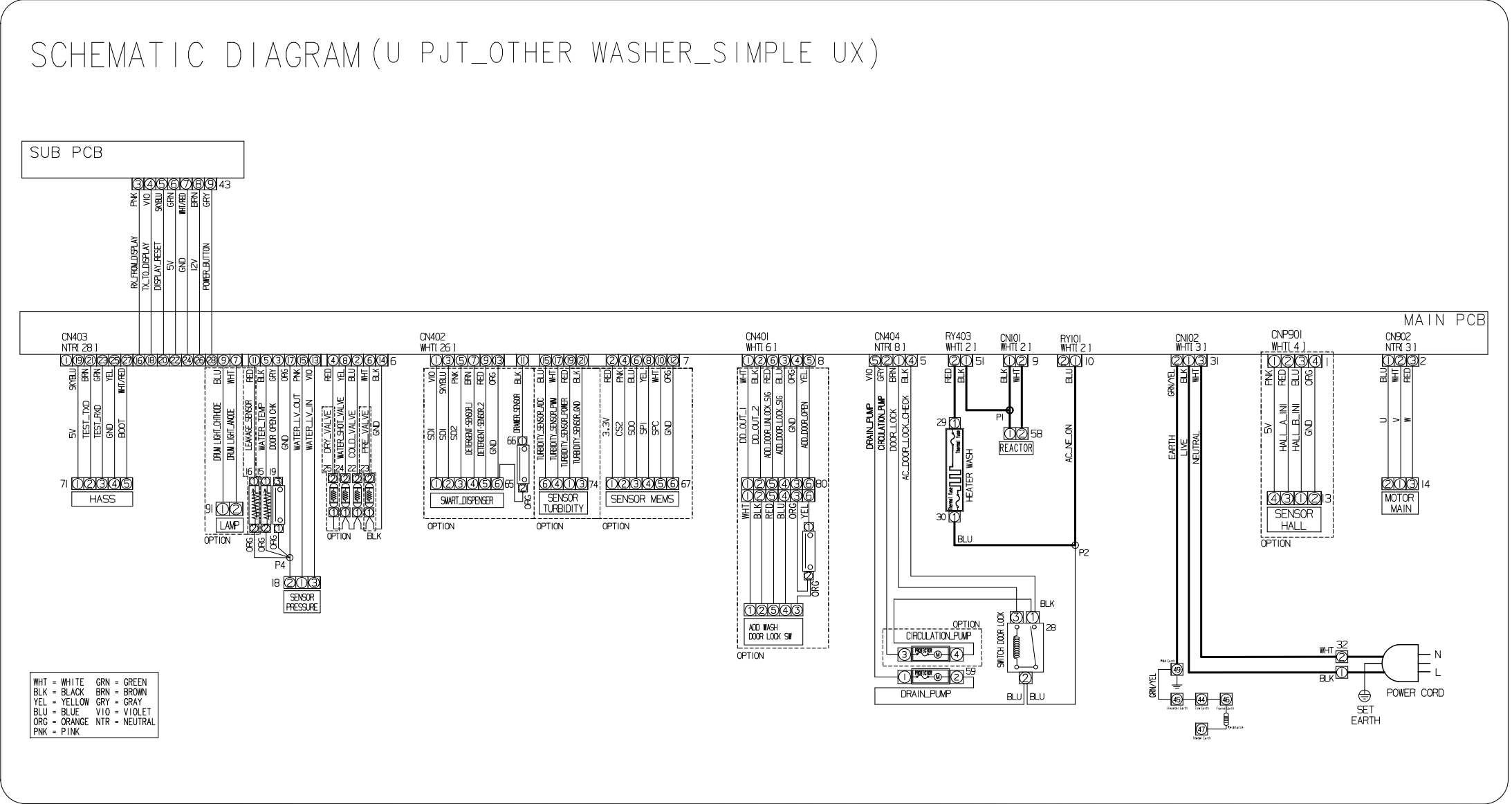
5-1. WIRING DIAGRAM (SIMPLE)

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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



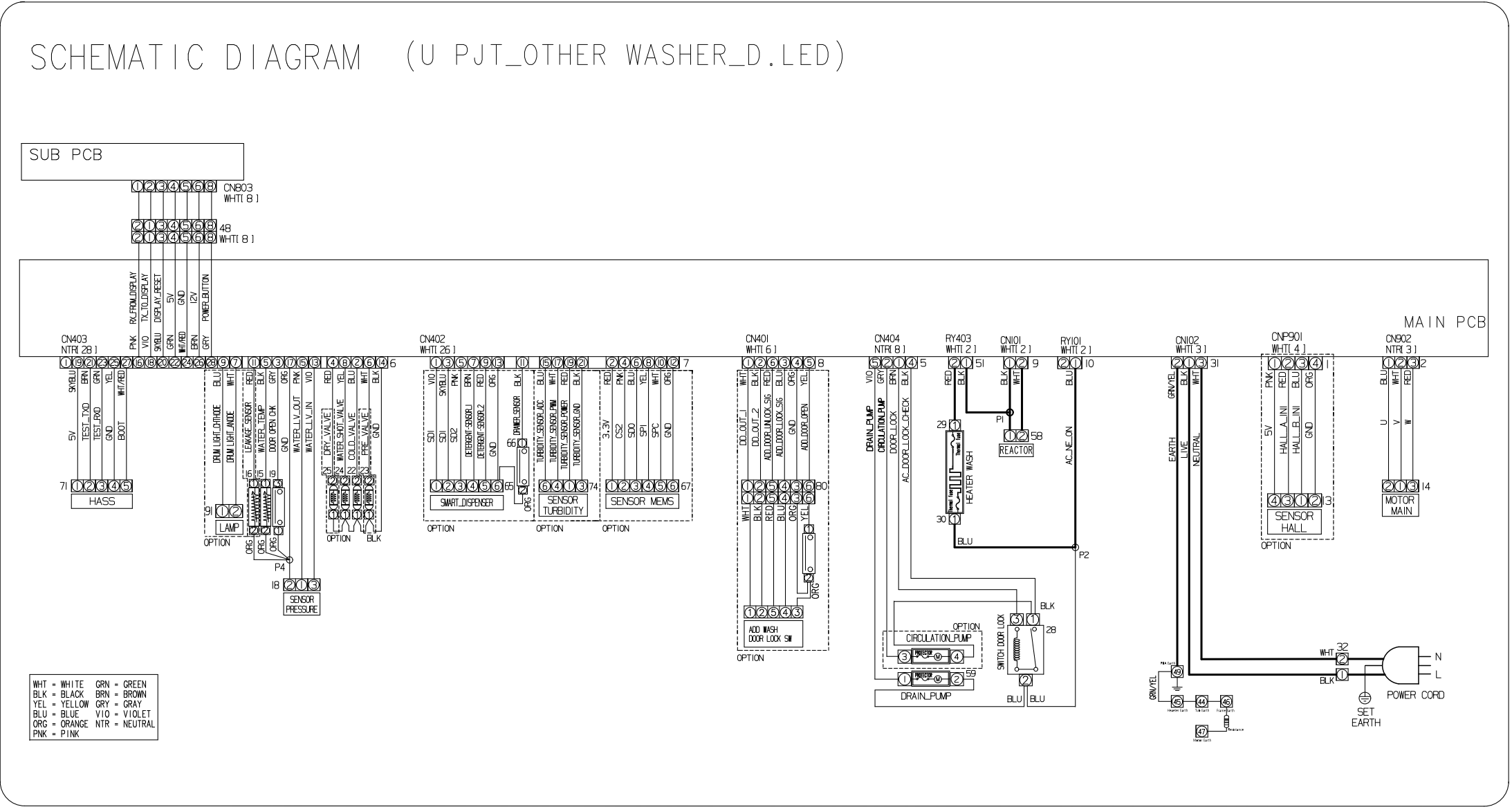
5-2. WIRING DIAGRAM (LED)

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■ REFERENCE INFORMATION

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GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW



5-3. WIRING DIAGRAM (Q-DRIVE)

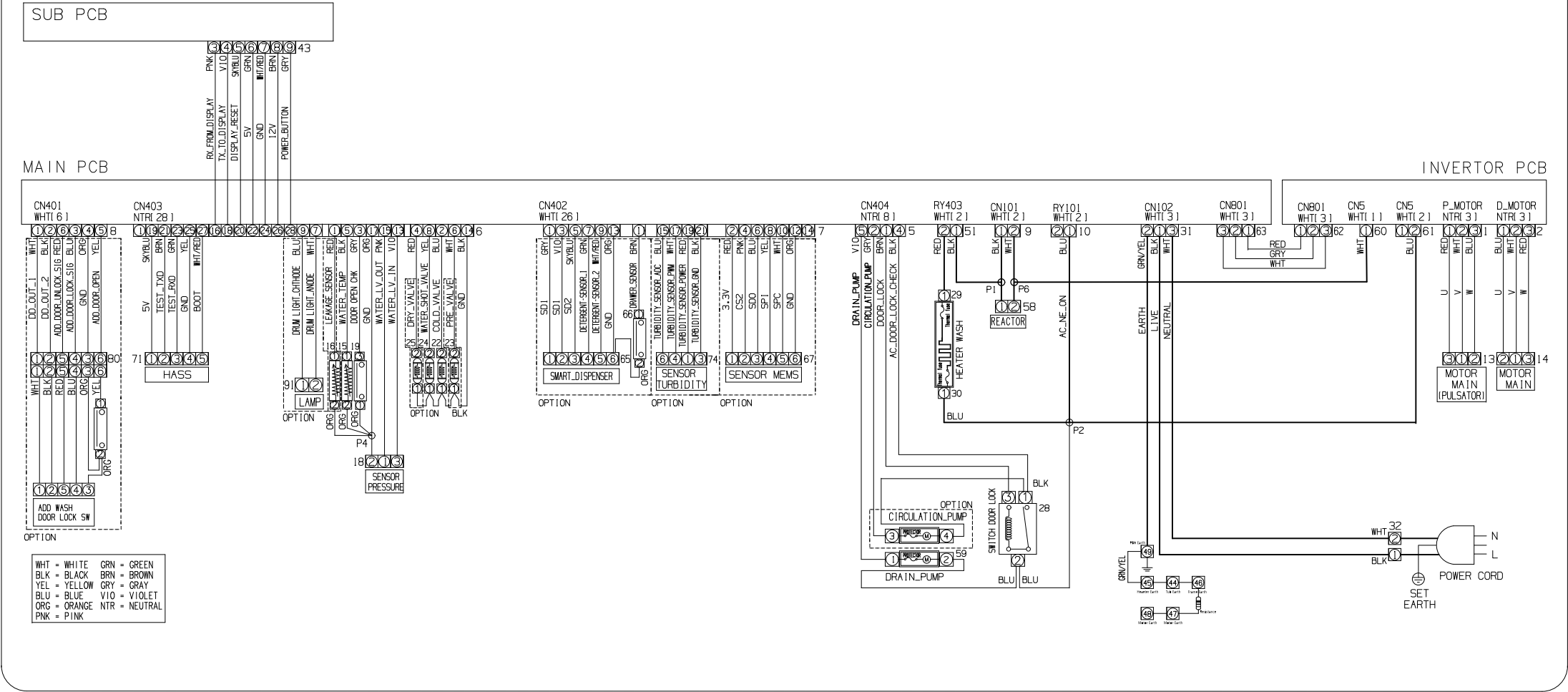
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REFERENCE INFORMATION

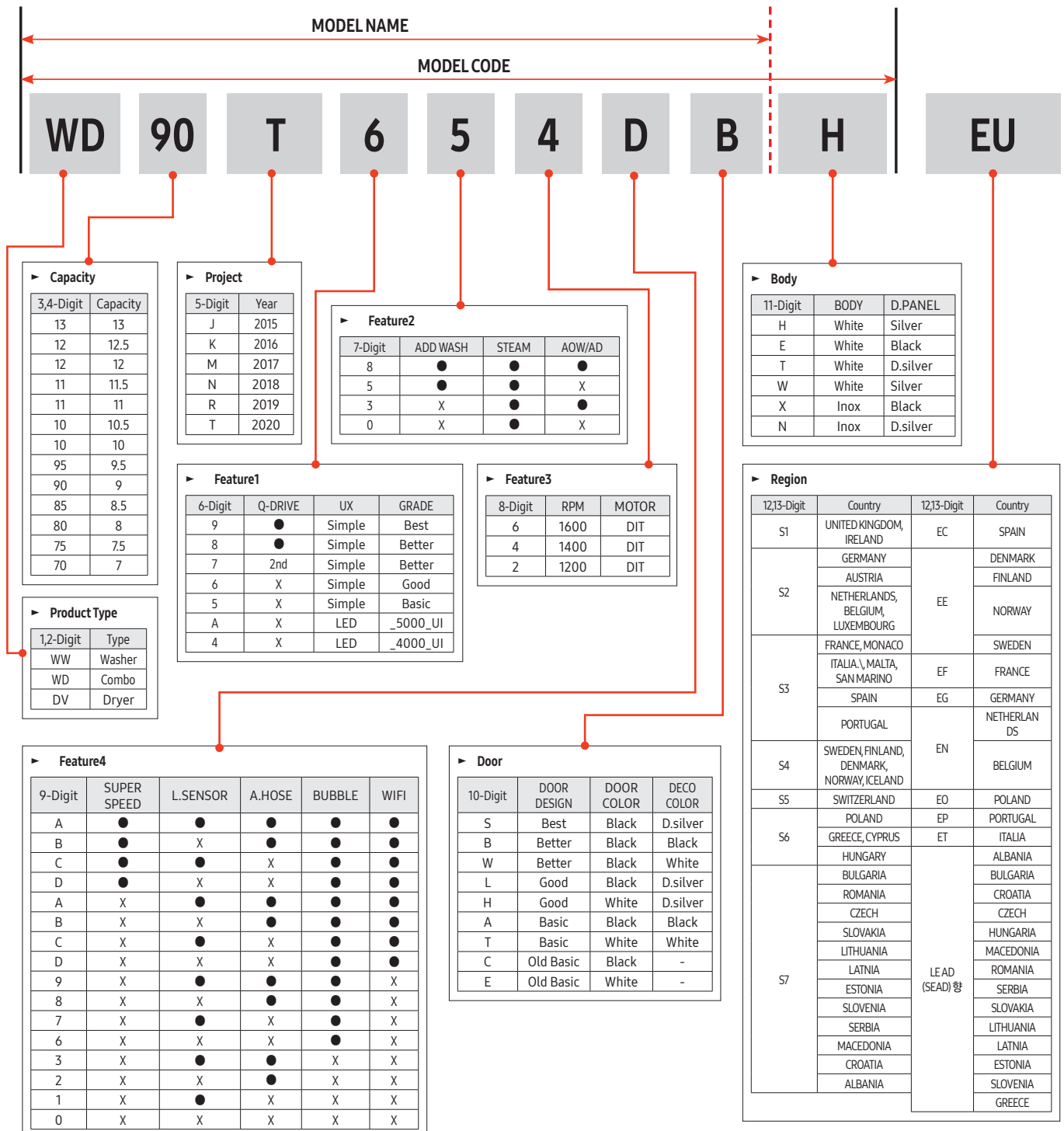
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GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW

SCHEMATIC DIAGRAM(U PJT_Q-WASHER)



6. REFERENCE

6-1. WD6000T PROJECT NAME



6-2. TERMINOLOGY

1. Drain Pump	The pump that drains the water from the washing machine generated while the washing machine is running
2. Heater	The heater is located on the tub inside the washing machine. It heats the water to increase wash efficiency.
3. Door Lock Switch	Detects whether the door of the washing machine is open or closed if the door is open while the washing machine is running the cycle is temporary stopped.



GSPN (GLOBAL SERVICE PARTNER NETWORK)

Area	Web Site
Europe, CIS, Mideast & Africa	gspn1.samsungcsportal.com
Asia	gspn2.samsungcsportal.com
North & Latin America	gspn3.samsungcsportal.com
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