SAMSUNG

WASHING MACHINE TOP-LOADING TYPE

BASIC NAME	:	WA3000J
BASIC CODE	:	WA40J3000AW/A2
MODEL NAME	:	WA45M3100A* WA45N3050A* (WA3100M PJT)
MODEL CODE	:	WA45M3100AW/A4 WA45N3050AW/A4

SERVICE Manual

WASHING MACHINE (TOP-LOADING)



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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.



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.

MARNING 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.



• There is a risk of explosion and fire caused from electric sparks.





MARNING 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 electrical hazard..
- When connecting wires, make sure to connect them using the relevant connectors and check that they are completely properly.
 - ▶ If tape is used 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.

WARNING AFTER SERVICING

- Check the wiring.
 - > Ensure that no wire touches a rotating part or a sharpened part of the electrical harness.
- 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.
- 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 lifetime.



 If it seems that grounding is needed due to water or moisture, make sure to run grounding wires.

(Check the grounding of the power outlet, and additionally ground it to a metallic water pipe.) $% \label{eq:check}$

• Failing to do so may result in electric shock due to electric leakage.

[Running a grounding wire]

- Twist a grounding wire (copper wire) two or three times around the tap.
- If you connect the grounding wire to a copperplate, bury it 75 cm under the earth in a place with a lot of moisture.
 - ▲ Do not connect the grounding wire to a gas pipe, plastic water pipe or telephone wire. There is a risk of electric shock or explosion.





▲ 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 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.

WHILE SERVICING

When wiring a harness, make sure to seal it completely so no liquid can enter.

• Do not press a control button using a sharp tool or object.

• This may result in electric shock or damage to the product.

Make sure that they do not break when force is exerted.

- 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.







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 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 when measured with a 500V DC Megger
- Check whether the washing machine is level the floor with respect to the original position of the washing machine prior to service.

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	
The Great Capacity	• Even bulky garments and blankets get super clean. The Great capacity leaves enough room for a more thorough, cleaner wash.	
EZ-Closed Lid	The door is designed to close softly and prevent users from being injured	

2-2. SPECIFICATIONS



	ТҮРЕ		NG WASHER
Model name		WA45M3100A*	
		WA45N30	050A*
	A Hoight	WA45M3100A*	: 45.1 (114.6)
	A. Height	WA45N3050A*	: 43.9 (111.7)
Dimensions (inches (cm))	B. Width	27.0" /	68.6cm
	C. Height with Door open	59.3" / 150.5cm	
	D. Depth	29.3" / 74.4cm	
Water pressure (psi (kPa))		20~116psi (137~800kPa)	
NET weight (kg (lb))		57kg (125.7 lb)	
Capacity		4.5	cu.ft
	WASHING	120V	700W
Heater rating	SPIN	120V	400W
	DRAIN	120V	80W
Spin revolution		700rpm	

2-3. DETAIL FEATURES

	Grade	WA45M3100A*/ WA45N3050A*		WA40J3	WA0008	
Image						
	Capacity(DOE)	4.5		4.	0	
	AquaJet™	No		N	0	
	Diamond interior drum	Yes		Ye	es	
	Pure Cycle™	No		N	0	
Main Spec.	Washing Cycles	8		8	}	
	VRT [®]	No		No		
	Pulsator material	PP		PP		
	Max rpm	700		70	700	
	Motor	AC Motor		AC N	lotor	
	Color	Neat White		Neat	White	
	Center display	No		N	0	
	Jog Dial	Squall Jr Same		Squall J	r Same	
	Main display	LED	1	LE	Ð	
Design	LED color	Red		Re	ed	
	Door Lid TC	Glass	Glass		glass	
	Easy door Yes		Yes			
	Frame	PCM		PCM		
	Top Cover	Steel(EGI) + Painting		Steel(EGI)	+ Painting	
		Estimated Yearly Energy Cost	17	Estimated Yearly Energy Cost	17	
	Energy	Estimated Yearly Electricity Use	267	Estimated Yearly Electricity Use	267	
		Energy consumption	350	Energy consumption	350	

2-4. OPTIONS SPECIFICATIONS

ltem	Item Name	Code No.	Remark
	HOSE-HANGER	DC61-00224A	Default
	MANUAL-BOOK	DC68-03520A	Default
1	CABLE TIE	6501-000121	Default
	CAP W.V	DC61-10449Q	Default
	ASSY-LEG SUPPORT	DC97-14095A	Service

Ø Note

• Customer can purchase Water supply, drain hoses and assy leg support from a service center.

3. DISASSEMBLY AND REASSEMBLY

3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

ΤοοΙ		Туре	Remarks
	Box driver	10mm 17mm	Tub(16), Fixer screw(5), Motor(1), Balance(5) Damper(2), Damper(friction 1)
	Double-ended spanner	10mm 17mm	Replaced by box driver Leg
	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
	JIG for the ASSY SPIN BASKET		

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
Sub and Main PCB		 8. Pull the PCB (s). 9. Separate 5 hooks with – driver.
Water Valve		 After separating the control panel, separate the water-valve housing. Remove the 2 fixing screws.



Part	Figure	Description
		 Remove the 4 screws from the cover top. Separate the control panel assembly.
		 3. Separate the water valve, the pressure switch and the filter EMI housing. Ø Separate the housing to prevent stress and damage to the wireharness.
Top Cover/ Door		4. Separate the main wire harness, the pressure switch hose clip , Grounding screw .
Switch	 Separate the top cover assembly by lifting and pushing ahead the top part of the assembly. Remove the 2 screws and separate 2 WIRE VINYL. 	
Sensor Pressure Switch		 Disassemble the control panel assembly. Separate the pressure switch housing.
		 3. Before separating the hose, release the clip. When releasing the clip, take care that you do not tear the hose.

Part	Figure	Description
Drain-Pump		 Separate the back cover. Separate 2 clamps. Remove cover pump. Separate 2 pins. Remove the 13 screws in base. Remove the 3 screws. Screws are separated by '+' shape hand driver.
Thermistor		1. Remove the 2 screws.

Part	Figure	Description
		 Separate the top cover assembly by lifting and pushing ahead the top part of the assembly. Remove the 2 screws holding the panel control Separate all the wires connected to the housing.
		3. Remove the 9 screws fixing the tub- cover and separate the tub-cover.
Clutch (continued)		 Separate the pulsator-cap by inserting the tip of a (-) screwdriver between the pulsator-cap and the pulsator.
		5. Remove the bolt holding the pulsator with a 10mm wrench according to the direction of arrow.

Part	Figure	Description
		 6. Remove the shaft with the jig wrench. Release the nut in a clockwise direction. Fasten the nut in a counterclockwise direction.
		 7. Place the main body so that the front frame faces upward and remove the 2 bolts holding the saddle with a 10mm wrench. When you place the washer on the floor, take care that you do not damage or scratch the product.
Clutch (continued)		 Remove the belt. When you replace belt, check belt tension certainly.
	9. Remove the NUT with a 17mm wrench and remove Assy pulley motor.	

Part	Figure	Description
		10. Separate the 1 marked housings.
		11. Separate the clip.
Clutch (continued)		
		12. Remove the 6 screws fixing the clutch assembly and then separate the clutch assembly.
TMR sensor		1. Remove the 2 screws with a 10mm spanner.

4. TROUBLESHOOTING

4-1. BEFORE INFORMATION MODES, PLEASE INSERT THE BELOW TABLE.

Water Supply Code	 Hot Extra High Warm High Eco Warm Mid Cool ocold Low oAutoLevel 	Motor Driving Code & TMR Sensor Code	 Hot Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o Auto Level 	Water Supply Code	 Hot Extra High Warm High Eco Warm Mid Cool ocold Low oAutoLevel
Water Level Sensor	 Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o AutoLevel 	Unbalance Code	 Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o Auto Level 	Temperature Sensor Code	 Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o Auto Level
Switch Code (Panel-Sub PBA)	 Hot Warm Warm High Eco Warm Mid Cool o Cold Low o Auto Level 	Drain Code	 Hot Extra High Warm High Eco Warm Mid Cool o cold Low o Auto Level 	Door Code	 Hot Extra High Warm High Eco Warm Mid Cool ocold Low oAutoLevel
Communication Code	 Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o Auto Level 	Overflow Code	 Hot Extra High Warm High Eco Warm Mid Cool o cold Low o Auto Level 	Door Code	 Hot Extra High Warm High Eco Warm Mid Cool o Cold Low o AutoLevel
Door Code	 Hot Hot Karm High Eco Warm Mid Cool o Cold Low o Auto Level 	Water Leakage Code	 Hot Hot Karm High Eco Warm Mid Cool o Cold Low o Auto Level 	Mems PBA Code Detected	 Hot Hot Extra High Warm High Eco Warm Mid Cool Ocold Low OAuto Level

✗ Indicate LED flashing, others turn on

4-2. INFORMATION MODES

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

Code Type	For USA	Causes	Remarks
Water Level Sensor	Cool LED Flash	 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 Code. (disengaged) Part fault. (Faulty internal soldering) The water level sensor terminal is disengaged. Main PBA fault. 	
Motor Driving Code and TMR Sensor Code	Hot&Eco Warm LED Flash	 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 TMR sensor terminal is not connected. Foreign material (a screw) has entered the motor. Motor overloaded due to too much laundry. (Non-sensing) The motor TMR sensor terminal is not connected. PBA fault. The motor driving Code from the PBA is weak. Unstable relay operation, etc. This occurs due to erroneous operating signals from the motor TMR 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 Code occurs because of restrained revolutions. This Code occurs when an interference is generated due to too much laundry, etc.
Water Supply Code	Extra High LED Flash	 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. 	
	Hot & Low LED Flash	 The Eco Warm and warm water supply hoses are wrongly engaged into each other. The temperature of the water supplied through the dry valve during a dry cycle is sensed as higher than 70 °C. The water temperature is sensed as higher than 50 °C in the Wool or Lingerie courses. 	The water supplied for 1 minute drying the drying cycle is 0.3 ~ 0.4 L.
Drain Code	Low LED Flash	 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 Code, foreign material) Clogged with foreign material. The water pump terminal is not connected: rubber band, bills, cotton, hair pins, coins have collected inside the drain pump ASSY. 	
Communication Code	Warm LED Flash	 The signals between the sub and main PBAs are not sensed because of commuication Code. 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. 	

Code Type	For USA	Causes	Remarks
Switch Code (Panel-Sub PBA)	Eco Warm LED Flash	 The Power button is pressed continually. (for more than 12 seconds). A switch is jammed or stuck due to be pressed unevenly due to deformation of the control panel or button. This Code may occur when the screws that hold the Control Panel(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 Control Panel(sub PBA) is tightened too much. Panel or Main PBA fault 	
	Hot LED Flash	 A switch contact Code because of a deformation of the door hook. When the door is pulled by force. This occurs in the Boil wash because the door is pushed due 	When the door is not opened after the door open operation. When the door is not
Door Code	Hot&Extra High LED Flash	 to a pressure difference from internal temperature changes. 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. 	locked after the door close operation.
	Hot&High LED Flash	 This occurs if the Power switch is turned on/off continually and too much heat is generated (This Code is difficult to be reproduced.) 	
Water Leakage Code	High LED Flash	 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. 	
Overflow Code	Mid LED Flash	 Water is supplied continually because the water level detection does not work. Because the drain hose is clogged and there is an injection Code (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 Code may occur when the water level sensor is degraded. 	This Code occurs because the water level sensor terminal is out of place.
Unbalance Code	Hot&Warm LED Flash	 As laundry causes this Code, check the laundry. Find the reason for the unbalance and solve it as directed in the user manual. 	
Mems PBA Code Detected	Hot&Cool LED Flash	 Code detected in the Mems PBA or data Code detected. Check the wire connections. Replace if necessary. 1. Check the wire connections. 2. Replace the Mems PBA. 3. Main PBA wire connection Code or PBA's silver nano part malfunction. Replace if necessary. 	
Temperature Sensor Code	Hot & Mid LED flash	 The washing heater sensor in the tub has an Code. (Contact Code 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 Code.

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Measurement Picture		 Check the water level sensor frequency. 1. Check it after the water level sensor and the connector are connected 	Checking Part : Blue Color Wire Oragne Color Wire 2. Frequency: Approx. 26.4 KHz without water (Min 25.9KHz)			 Check the motor Winding Coil Plug out the connector and read resistances: Pin1 between pin2: 5.4±%10 Ω Pin 2 between pin3:5.4±%10 Ω 	
Measure							
Troubleshooting Procedure	Check the water level sensor terminal connections. Check the part code of the water level sensor, because if an incorrect part is used, an abnormal operation may occur. (Abnormal operation) If the water level sensor is defective, replace it. If no problems were found for all of the procedures above, replace the PBA.			 Check the motor connector terminal connections. Check if the Motor Cover State is damaged. Check if the coil is broken due to moisture from any alien substance. If the PBA control circuit is defective, replace the PBA. 			
Countermeasure	Check if the water level sensor is defective.	Check if the water level sensor terminal is properly connected.	Check if the water level sensor hose is broken.	This may occur when the main PCB is defective.	This may occur when the washing motor is defective.	Check if the washing Motor Rotor/State is defective or not.	This may occur when the main PCB is defective.
Check Code	Cool LED Flash				► Hot&Eco Warm LED Flash		
Symptom		Water Level	Sensor			Washing Motor Defect	

4-3. CORRECTIVE ACTIONS FOR EACH CODE



Measurement Picture	Check if there is any alien substance in the Draining Bellows.	wire, coins, etc.	·				
Troubleshooting Procedure	 Since this occurs when an alien substance is in the Draining Bellows, for natural draining, remove the alien substance. 	 In the dram motor is detective, replace the motor. Check if the water leaks from the tub connection part. 	 Check the laundry type and check if the laundry load is unbalanced. Make sure to check if there is any laundry present that absorbs a lot of water even if its volume is Low and explain the problem comprehensively, if necessary. 	Check wire connections.	 Replace the Mems PBA. Replace Mems PBA because of the main PBA wire disconnection Code or PBA silver nano part malfunction. 		 The water level sensor is replaced.
Countermeasure	This may occur when an alien substance is in the DV Case.	This may occur due to a defect of the product's internal hose or from the part assembly.	This may occur due to the laundry being unevenly distributed.	This may occur due to disconnection.	This may occur when the Mems PBA is defective.	This may occur when the water level sensor is defective.	This may occur when water is supplied continuously due to freezing or foreign materials in the water supply valve.
Check Code	► High LED	Flash	 Hot&Warm LED Flash 	 Hot&Tap Eco Warm 	LED Flash		► Mid LED Flash
Symptom	Water Leakage	Code	Unbalance Code	Mems PBA	Detected		Overflow Code

Symptom	Check Code	Countermeasure	Troubleshooting Procedure	Measurem	Measurement Picture
	 Hot LED Flash 	This may occur when the door switch is defective.	 Check if these LED flash during the boiling course. As these LED flash because the door is opened, close the door. 		 Check the resistance for Reed SW (Checking Part :White-Green Wire) Resistance: Approx 0.2Ω between the terminals of Reed SW.
Door Code	► Hot&High LED Flash	This may occur when the main PCB is defective.	 Since 12UV power is connected, check in the power cord is disconnected or check the insulation status and repair it if necessary. If the main PBA door detection circuit is defective, replace it. 		 Check the resistance for Motor (Checking Part : Black-Brown Wire) Resistance: 33Ω to 46Ω between the terminals of Motor.
	► Hot&Extra High LED Flash	The door lock switch unit is not inserted. The door lock switch unit is damaged.	 Check whether the door lock switch unit is inserted. Check whether the door lock switch unit is damaged. 		 Check the resistance for Lock/ Unlock Contact (Checking Part : Lock White-Red Wire Unlock White-Blue Wire)
	 Hot High LED Flash 	The wire is disconnected. The door lock switch unit is defective. This may occur due to a defect of the main PCB.	 Check the disconnection of the wire. If the door lock switch unit is defective, replace it. If the main PCB is defective, replace it. 	Lalock	Approx 0.20 between the terminals of Contact.
Temperature Sensor Code	► Hot&Mid LED Flash	 Heater fault Thermistor fault Poor physical connection 	 Check whether Thermistor is inserted. Check whether Thermistor is damaged. Check the disconnection of the wire. If Thermistor is defective, replace it. If the main PCB is defective, replace it. 		Check Resistance for Thermistor (Checking part : Pin #3 and #9 of CN10) •Resistance : Approx 47kΩ (at 25°C) between the terminals of Thermistor.

Measurement Picture	Check the contact between the control panel buttons and their corresponding tact switch. - There must be a gap between a control panel button and its corresponding micro switch. Otherwise, an Code occurs after approx. 30 seconds has passed.
Measure	
Troubleshooting Procedure	 Check whether either the Power switch or a tact switch is continually pressed. Check whether the service PBA holding screws are fastened too tight. If they are fastened too tight, loosen them a little. If the main PBA switching IC on/off Code has occurred, replace the main PBA. The "Eco Warm LED " fashes if the main relay connections are incorrect. Check the connections. If there is no fashing in the connections, replace the main PBA. Check beep sound, when pressing button - sound on : Panel fault -> Check connections, still same, change a panel - no sound : Main PBA fault -> Check connections, still same, change a Main PBA
Countermeasure	The Power button is continually pressed. A button other than the Power button is continually pressed.
Check Code	► Eco Warm LED Flash
Symptom	Switch Code (Panel-Sub PBA)

4-4. THE INSTALLATION FOR LEVELING

Problem Type	Causes	Corrective Actions
If the rear level of the floor is lower than the front level of the floor, it can't be leveled.	Only use the front legs to adjust the level.	Use the leg supports to adjust the level of the rear.
Front Rear		If the floor is on a steeply slope, please use the additional leg supports.
		Customer can purchase the leg supports from a service center.

5. PCB DIAGRAM

5-1. MAIN PCB

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Location	Part No.	Function	Description	L
1	CN12	SUB COMMUNICATION	communication with sub PBA	
2	CN5	JTAG	writing port	
3	RY2	DOOR LOCK	drive the door lock switch	
4	CN3	SMPS MODULE	Power Cord AC2(N) AC1(L)	
5	CN1	LOAD DRIVE	drive the load	_

Location	Part No.	Function	
6	RY1	LOAD CONTROL	control
7	CN8	POWER CONTROL	control
8	TRIAC1&TRIAC2		
9	CN7	MOTOR CONTROL	control

Description

I the load

I the power

I to Motor (right&left)

5-2. DETAILED MANUAL FOR CONNECTOR AND RELAY TERMINAL PART - MAIN PCB

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► CN10 SENSING PART PIN2 – CHECKER PIN3 – WATER_TEMP PIN4 - SIDE_JET PIN5 - HALL_SENSING PIN6 – WATER LEVEL1 PIN7 – WATER LEVEL2 PIN8 - 5V, PIN9 - GND

5-3. SUB PCB

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	Location	Part No.	Function	Description
	1	Micom201	Control Function	Control Key and LED Function
	2	SW601	Jog Dial	Jog Dial
_	3	CN802	Wash communication Part	Connect wash Main PBA
-	4	CN501	Conecting Sensing Part	Connecting Thermistor, Water Lavel and Cluch
-	5	LED	LED Lamp	Display Function
-	6	BZ601	Buzzer	Making a sound
-	7	SW701~SW708,SW201	Switch	Operating or changing Function
-	8	DSP702	LED Display	Display Funciton
-				



5-4. DETAILED MANUAL FOR CONNECTOR TERMINAL PART - SUB PCB

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6. WIRING DIAGRAM

6-1. WIRING DIAGRAM

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REFERENCE INFORMATION

BLACK
BLUE
GREEN
GRAY
NATURAL
ORANGE
PINK
RED
SKYBLUE
VIOLET
WHITE
YELLOW



7. REFERENCE

7-1. MODEL NUMBER NAMING RULES



- ① Product type(CAN NOT CHANGE) : Auto Washing machine (SAMSUNG' s Guide Line)
- ② Market Claim Capacity : 4.5 cu.ft
- ③ Intro. Year : M Intro. Year : 2017
- (4) Series : Grade 3 : Entry
- 5 Feature Table : 000 : Good/Hot-Cold water/AC Motor/Drain Pump
- ⑥ Intro. Region. Or TYPE : A N.America
- O Color : W White
- ⑧ / : CBU
- (9) Buyer : A4 : USA/CANADA

SAMSUNG

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