



WASHING MACHINE DRUM TYPE

Basic Model : WF448AAP/XAA
(PURPLE PROJECT)

Model Name : WF520AB*
(GRACE PROJECT)
WF511AB*
(GRACE JR PROJECT)

Model Code : WF520ABP/XAA
WF520ABW/XAA
WF511ABR/XAA

SERVICE Manual

WASHING MACHINE (DRUM)



WF520ABP

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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.



WARNING

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



CAUTION

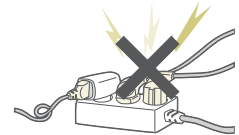
Hazards or unsafe practices that may result in minor personal injury or property damage.



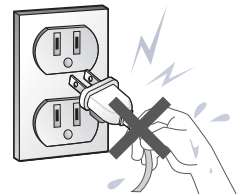
WARNING

BEFORE SERVICING

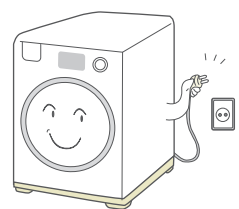
- (When servicing electrical parts or harnesses) Make sure to disconnect the power plug before servicing.
 - ✓ Failing to do so may result in a risk of electric shock.
- Do not allow consumers to connect several appliances to a single power outlet at the same time.
 - ✓ There is a risk of fire due to 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.

**WARNING****WHILE SERVICING**

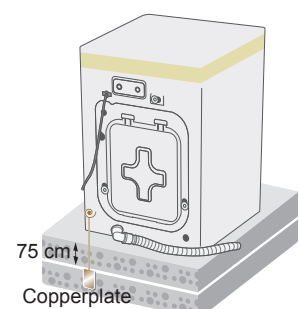
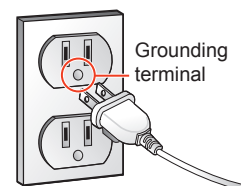
- Check if the power plug and outlet are damaged, flattened, cut or otherwise degraded.
 - ✓ If faulty, replace it immediately.
 - Failing to do so may result in electric shock or fire.
- Completely remove any dust or foreign material from the housing, wiring and connection parts.
 - ✓ This will prevent a risk of fire due to tracking and 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.)
 - ✓ 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.



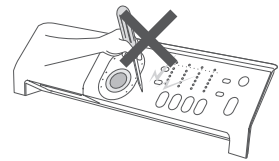
- Do not place any containers with water on the washing machine.
 - ✓ If the water is spilled, it may result in electric shock or fire. This will also shorten the product lifetime.



- 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.



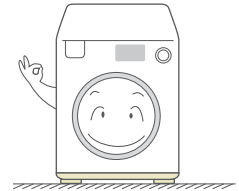
- Do not press a control button using a sharp tool or object.
 - ✓ This may result in electric shock or damage to the product.

**CAUTION****WHILE SERVICING**

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

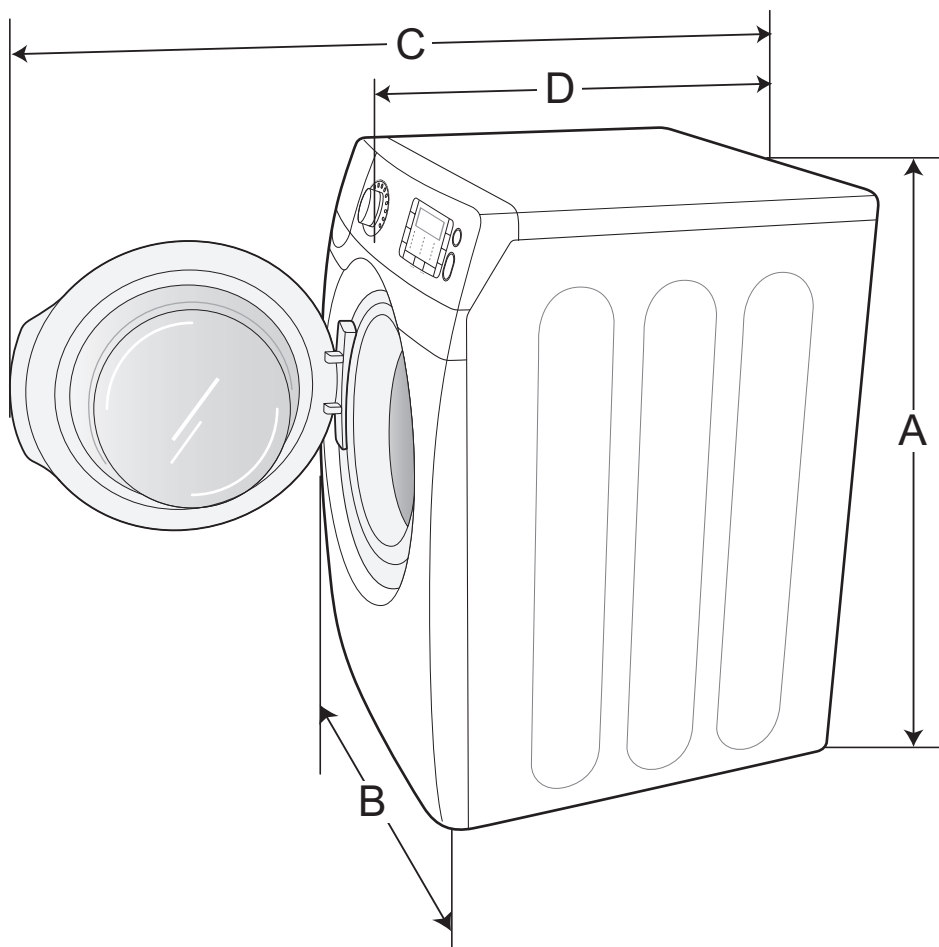
2-1. FEATURES

Features	Description
VRT™plus (Vibration Reduction Technology)	This Samsung washer performs very quietly minimizing noise and vibration with dual 3D vibration sensors and smart control technology which enable to maintain the lowest possible vibration. Thus, the drum keeps perfect balance.
The Largest Capacity	Samsung's extra-large capacity laundry machine can wash a full set of your bedding, a kingsize comforter, or up to 30 bath towels in a single load. Since you don't have to do as many loads, you save time, money, water and energy.
PowerFoam	Samsung's effective PowerFoam delivers perfect cleanliness with advanced fabric care. Special engine inside your washer generates foam by dissolving detergent with air and water before every washing cycle starts. You will get great result as PowerFoam allows detergent to distribute evenly and penetrate fabrics faster and deeper than conventional washing system.
PureCycle™ (Tub Cleaning cycle)	Clean your drum with one button! This Pure Cycle is specially designed to remove buildup of detergent residue & dirt in the tub, diaphragm and door glass without special chemical detergent. You can enjoy the fresh, clean drum by regular use of Pure Cycle.
Deep steam	The Deep Steam feature boosts cleaning performance and loosens grime and dirt, thus providing superior cleaning results.
Diamond drum™	Take gentle care of your fabrics. With inside holes 36% smaller than those of conventional drums, the diamond drum prevents fabrics from sticking out and consequently being damaged.
Stylish design	The stylish design of this washer blends well with your environment.
LCD Display & Center jog dial	The Jog dial enables you to select cycles in both directions with ease, and the LCD display is easy to use and understand.
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 1,250rpm for more effective, quiet operation. The washer also has fewer moving parts, meaning fewer repairs.
Sanitize	When selecting this cycle, the water heats to an extra high temperature to remove 99.9% of certain bacteria typically found on clothing, bedding, or towels. This certification is conducted by NSF International, an independent third-party testing and certification organization. Please check garment care label to avoid garment damage. Only sanitizing cycles have been designed to meet the requirements of this protocol for sanitization efficacy.  NSF Protocol P172 Sanitization Performance of Residential and Commercial, Family-Sized Clothes Washers

Features	Description
Pedestal with Storage Drawers (Model No : WE357A7P/E/W/R)	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 : SK-5A/XAA)	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

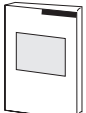
Model		WF520ABP / WF520ABW / WF511ABR	
Wash type		Front loading type	
Dimension (Inches / mm)	A: High-Overall	38.6" / 981 mm	
	B: Width	27" / 686 mm	
	C: Depth with door open 90°	51.2" / 1300 mm	
	D: Depth	34.1" / 865 mm	
Water pressure		20 ~ 116 psi (137 ~ 800 kpa)	
Weight		110 kg (242.5 lb)	
Capacity		5.0 Cu.Ft (iec)	
Power consumption	Washing	120 V	200 W
	Washing and heating	120 V	1150 W
	Spin	120 V	550 W
	Drain	120 V	80 W
Spin revolution	rpm	1300 RPM	



2-3. COMPARING SPECIFICATIONS WITH EXISTING MODELS

Project		Grace Jr.	GRACE	PURPLE
Model Name		WF511ABR	WF520AB*	WF448AA*
Image				
Capacity (cu.ft. IEC)		5.0 cu.ft	5.0 cu.ft	4.5 cu.ft
Main Spec	Motor type	DD Motor	DD Motor	DD Motor
	MAX RPM	1300	1300	1300
	VRT	Yes (VRT+)	Yes (VRT+)	Yes
	Heater (900W)	Yes	Yes	Yes
	Diamond Drum	Yes	Yes	Yes
	Washing Cycle #	13	13	12
	Delay Wash	24 hrs	24 hrs	24 hrs
	Tilted Drum	5°	5°	10°
	Sound pressure	Ave 56.3 dBA	Ave 56.3 dBA↓	Ave 57.5 dBA
Target Performance	MEF	3.02	2.9 ↓	2.7
	WCF	3.3	3.4↓	3.4
	kWh/year	100 kWh/year	120 kWh/year↓	162 kWh/year
Design	Control Display	LED	LCD	LCD
	Frame Color	R : Tango red	W : White P : Stainless platinum	W : White E : Cooper P : Stainless platinum R : Tango red L : Onyx blue
	Dimension (W*D*H)	27 X 34.3 X 39"	27 X 34.3 X 39"	27 X 31.9 X 39"

2-4. OPTIONS SPECIFICATIONS

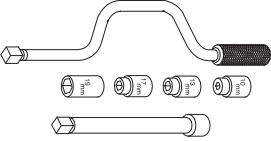
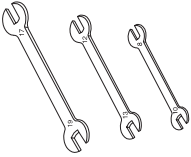
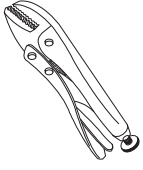
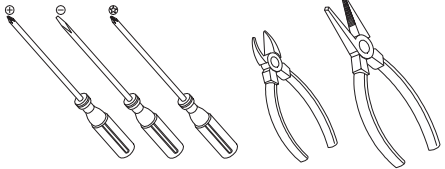
Item	Code	QTY	Remarks
	BOLT-SPANER (Wrench)	DC60-40146A 1	Default
	ASSY HOSE WATER(H)	DC97-15648B 1	Default
	ASSY HOSE WATER(C)	DC97-15648A 1	Default
	MANUAL-BOOK	DC68-02838A 1	Default
	CAP-FIXER	DC67-00307A 6	Default
	HOSE-HANGER	DC62-10278A 1	Default

Note

- You can purchase additional water supply and drain hoses from a service center.
- For built-in models, the spanner(wrench), water supply and drain hoses are not supplied. Both the water supply and drain hoses are supplied during the installation.

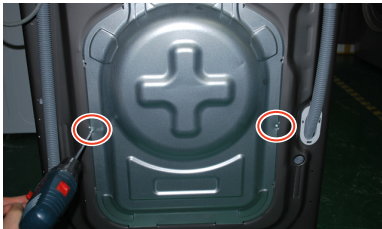
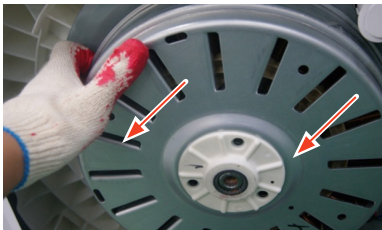
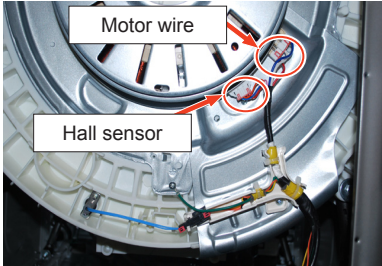
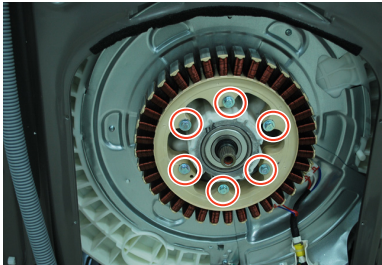
3. DISASSEMBLY AND REASSEMBLY

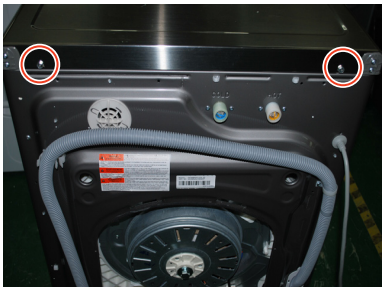
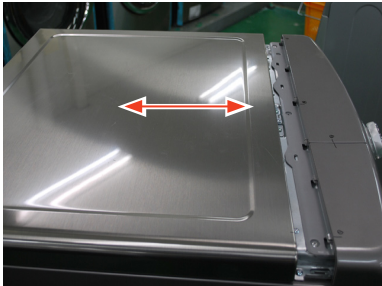
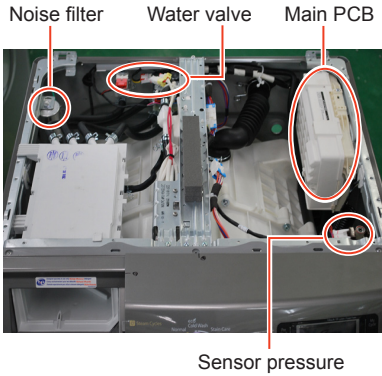
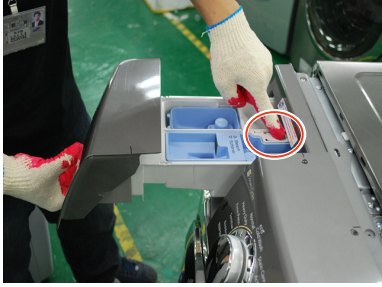
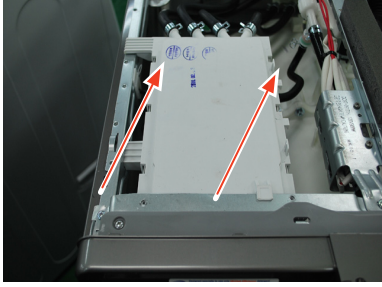
3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

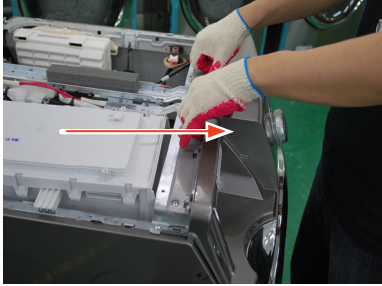
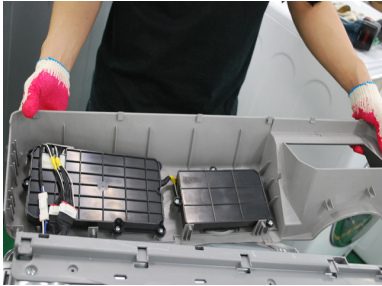
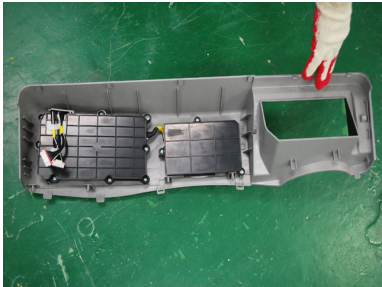
Tool	Type	Remarks
	Socket Wrench with 6" Extension 10mm 13mm 19mm	Heater (1) Motor (1), Balance (5), 2 holes of each left and right of the shock absorber 1 Pulley hole
	Open End wrench 10mm 13mm 19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver 17mm.
	Vice pliers	Tool to protect the idle and abrasion of the bolt for the box driver.
	Others (Driver, Nipper, Long nose)	General tools for the after service.

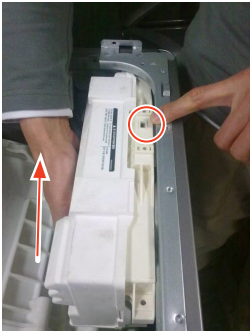
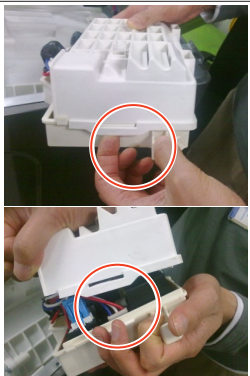
3-2. STANDARD DISASSEMBLY DRAWINGS

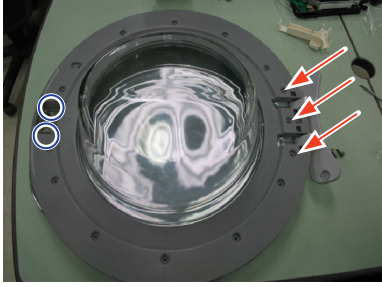
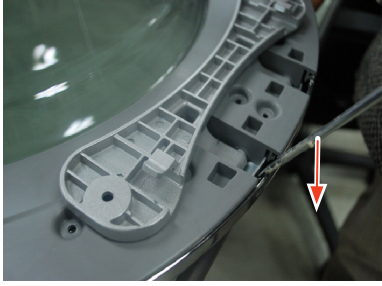
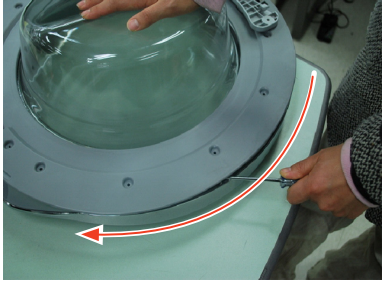
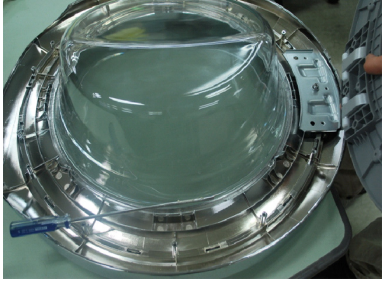
- This is a standard disassembly diagram and may differ from the actual product.
Use this material as a reference when disassembling and reassembling the product.

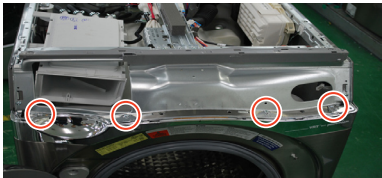
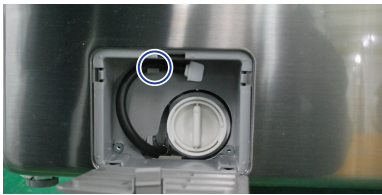
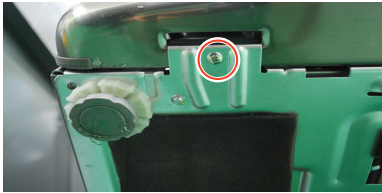
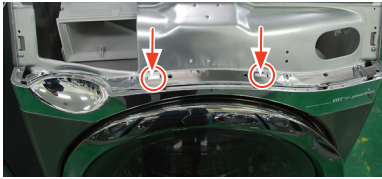
Part	Figure	Description
Disassembling and Repairing the Rear Motor		1. Remove the 2 screws holding the Back-Cover at the back of the washing machine and separate the Back-Cover pushing it downwards (Assemble it by lifting it upwards)
		2. After separating the Back-Cover, remove the M19 nut holding the 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 a problem with the motor.
		3. Remove the M19 nut and washer and then separate the Rotor. ⚠ Since removing the rotor requires a lot of strength due to the magnetic force of the Rotor and it may come off suddenly, your hand or arm may be injured by the edge of the Stator or Frame. Therefore take precaution when separating it. ✔ You can separate the connector by pressing the navel of the Housing and pulling it outside.
		4. Separate the Motor Wire and Hall Sensor while pressing the navel of the Housing. Take precaution when you do this because the Hall Sensor part is easily shocked.
		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. 3. Check if the Hall Sensor 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.	

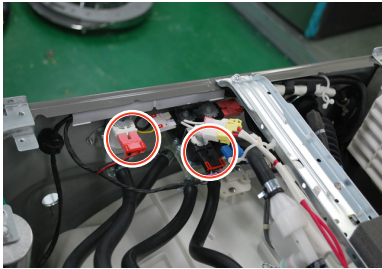
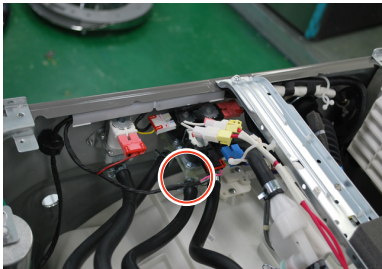
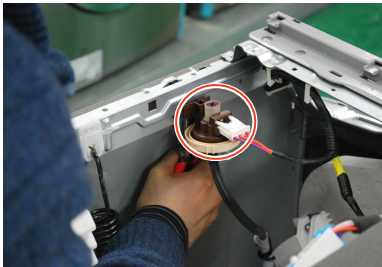
Part	Figure	Description
Separating the Cover_Top and Panel-Control (Check Main-PCB and Sub-PCB)		1. Remove the 2 hexagon screws, which are at the back, fixing the COVER-TOP.
		2. Disassemble the COVER-TOP by sliding it backwards and remove the 4 screws on the PANEL-CONTROL.
		3. With the top cover removed you will now have access to service the Water pressure sensor, EMI Noise Filter, Hot and Cold Water Valves, Steam ASSY, Hose Draw ASSY, and Main PCB ASSY.
		4. Press the Separate button to separate the ASSY DRAWER.
		5. Disassemble the HOUSING-DRAWER from the PANEL-CONTROL(Push back and then push Housing-drawer upside to separate)

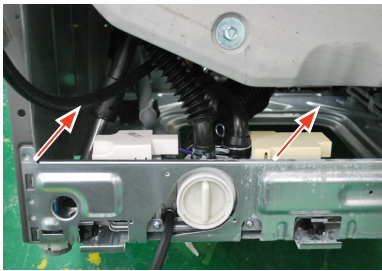
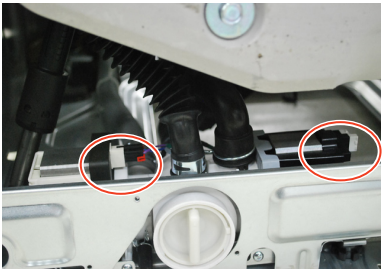
Part	Figure	Description
Separating the Cover_Top and Panel-Control (Check Main-PCB and Sub-PCB)		6. Pull the PANEL-CONTROL towards and then lift it upwards to separate.
		7. Carefully disconnect the three wiring connectors by hand.
		8. Remove the 11 screws holding the PCB and release the hooks on both sides to remove the PCB for repair / replacement.

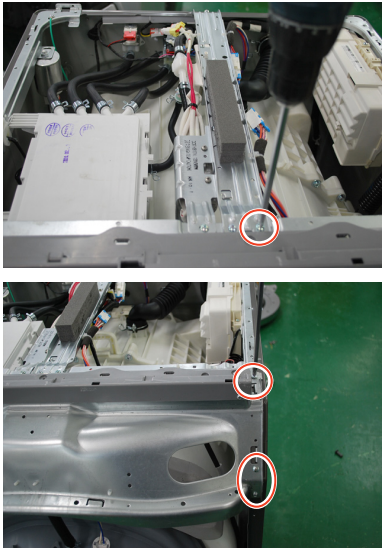
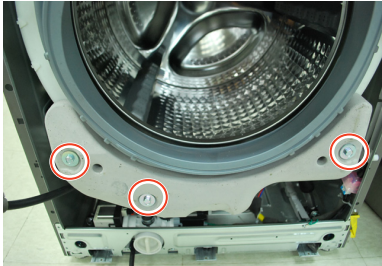
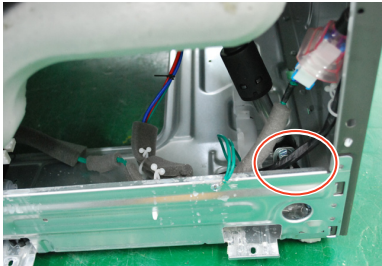
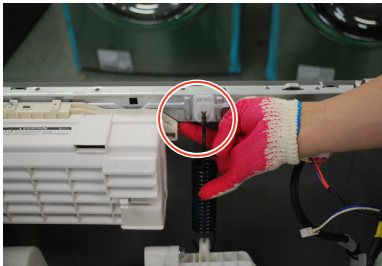
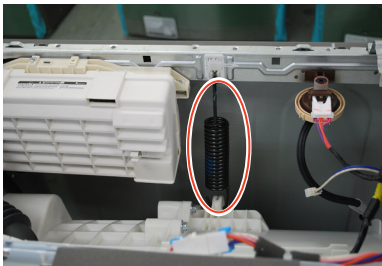
Part	Figure	Description
Separating the Main PCB		1. Remove the 2 screws holding GUIDE-PCB(M) at BRACKET-SPRING(R).
		2. Lift up ASSY PCB(M)
		3. Move the ASSY PCB(M) at parallel direction.
		4. Separate 2 hooks
		5. After SVC, Certainly check the 2 hooks assembled correctly. ☒ Otherwise COVER-PCB(M) will be disassembled during washing machine running.

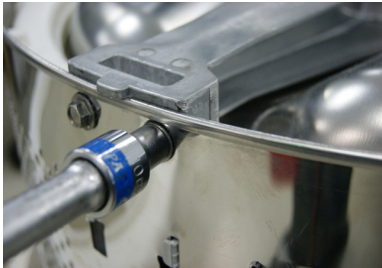
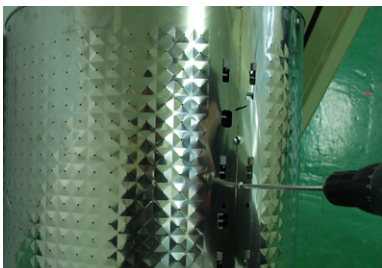
Part	Figure	Description
Disassembling and Reassembling the Door Part		1. Remove the 2 screws holding the HINGE-DOOR and the FRAME-FRONT. 2. Disassemble the ASSY DOOR lifting it up slightly.
		3. Remove the 18 screws fixing the HOLDER-GLASS (including the 2 blue screws holding the LEVER-DOOR, including the 3 arrow screws holding the HINGE-DOOR.)
		4. Putting and pressing hard a flat-head screwdriver into the furrow between COVER-DOOR and SUPPORT-HINGE.
		5. Making a semicircle with screwdriver. (Disassemble the hooks)
		6. Disassemble the HOLDER-GLASS from COVER-DOOR Take the DOOR-GLASS , SUPPORT-HINGE, HINGE-DOOR.
	✓ Check Points for Troubleshooting • Check the status of the screws holding the Hinge (check if they are loose). Check if the front and rear of the door and the hinge part are not damaged.	

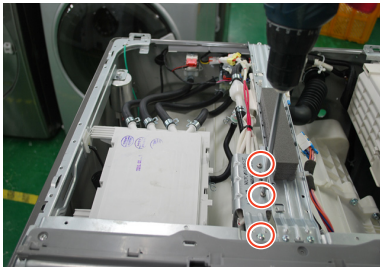
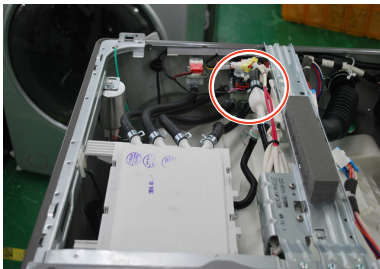
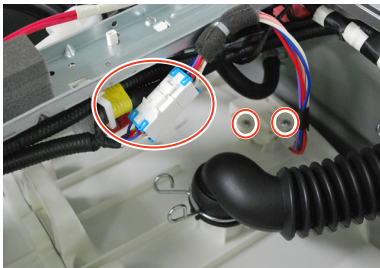
Part	Figure	Description
Disassembling the Front Cover/Frame Front (Check the Door Lock S/W)		1. Pull the DIAPHRAGM upside, and finish disassembling along the circle.
		2. Remove the 2 screws to separate the DOOR LOCK S/W.
		3. Remove the 4 screws at the top of FRAME-FRONT.
		4. Push the lever and pull it towards to open the COVER-FILTER.
		5. Separate the remaining WATER REMOVAL HOSE (BLUE) from the hook.
		6. Remove the 2 screw down under Frame Front.
		7. Press the UPPER-PLATE slightly with the screwdriver to separate the FRAME-FRONT.

Part	Figure	Description
Disassembling and Repairing the Water Supply Valve		1. Remove the Top Assy-Plate. 2. Disconnect the water supply valve wire connector.
		3. Remove the 4 screws holding the water supply valve.
		3. 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 the SENSOR-PRESSURE. 2. Adjust the plastic clip(of pressure sensor) between two nose of plier, then grip and pull the plastic clip with caution(Use the long nose plier to push the hook).
		3. Remove the hose from the SENSOR-PRESSURE.
Disassembling the inside Detergent Box		• Hold the Clamp of the Detergent Box and disassemble the Hose-Drawer-Tub.

Part	Figure	Description
Disassembling the Pump Motor Part		1. Remove the 2 Cover pump.
		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 fixing GUIDE-WIRE, 6 screws fixing FRAME-PLATE(U).
		2. Remove the 3 bolts fixing WEIGHT BALANCER and then pull it towards with caution.
		3. Remove the 4 bolts fixing DAMPER to take ASSY TUB out. 4. Remove all wire and hose connected the ASSY-TUB.
		5. Open the cap of SPRING-HANGER to take ASSY-TUB out.
		6. Lift the ASSY-TUB with two people carefully with holding SPRING-HANGER.

Part	Figure	Description
Disassembling the Tub		7. Remove the M10 bolt 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 M10 bolts from the upper ASSY DRUM, disassemble the ASSY FLANGE SHAFT.
		2. Remove 12 screws from the outer sides and then remove the two upper and lower BALL BALANCERS.
		3. Remove 3 screws from the outer sides and then remove the 3 DRUM-LIFTERS.

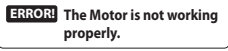
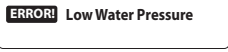
Part	Figure	Description
Separating the Heater at the Bottom Front		1. Disassemble the Front-Frame. 2. Separate the connection wire. - Separate the Thermostat fixed at the bottom of the Tub. (Take precaution as there may be water remaining.) ☑ Make sure to separate the Thermostat first and then separate the Heater. If you fail to observe this order, it may result in a shock and be damaged. 3. Release the nut holding the Heater with an M10 tool and then separate the Heater. ☑ Do not completely release the nut. Pull the Heater forward after releasing the nut. If the Heater is damaged, it may cause a problem. Therefore unfasten the nut using spanner or wrench manually without using pincers or tweezers. ⚠ 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.
		✓ 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).
Disassembling The Steamer		1. Remove the 3 screws holding the Guide Wire at the upper of the washing machine.
		2. Disconnect the terminal for the steamer
Disassembling The MEMS Sensor		1. Remove the 2 screws From MEMS Sensor 2. Separate the wire Connector

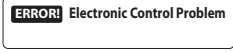
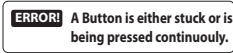
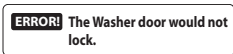
☑ Reassembly is in the reverse order of the removal.

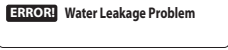
4. TROUBLESHOOTING

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
	LED	LCD		
Water Level Sensor	LE1		- 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	3E		- 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.	This error occurs because of restrained revolutions
	E3		- 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 error occurs when an interference is generated due to too much laundry, etc.
	bE		- 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	
Water Supply Error	nF		- 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.	If this error occurs in the Wool course
			- The cold 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 supplied for 1 minute drying the drying cycle is 0.3 ~ 0.4 L.
			- The water temperature is sensed as higher than 50 °C in the Wool or Lingerie courses.	
Drain Error	nd		- 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 have collected inside the drain pump ASSY.	

Error Type	For USA		Causes	Remarks
	LED	LCD		
Power Error	2E		- Check the consumer's power conditions. : Make sure to check the operating voltage. Connect a tester to the internal power terminals during the Boil or Dry operations and observe the washing machine's operation carefully. : Check the voltages. (An error occurs when under or over voltage is supplied.) : Check whether a plug receptacle is used. When the connecting wire is 1m, a momentary low voltage may drop up to 10 V - Main PBA fault (sometimes)	
	PF	-	- This error is not a fault but occurs during a momentary power failure : When this error code is displayed, the operation restarts from the cycle that was stopped due to the power failure. : If the washing machine is not operating and this error code is displayed, it is displayed to notify that a power failure has occurred.	
Communication Error	AE		- The signals between the sub and main PBAs are not sensed because of communication 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.	
Switch Error (Main Relay Error)	E2		- 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 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.	
	Sr		- The main relay of the PBA is short-circuited. - The main relay terminal is connected incorrectly. (The terminal is bent and contact cannot be made.)	When the PBA motor relay does not operate
Door Error	dS (Before operation)		- 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
	dL (During 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
	LO (Unlock Fail)		- The door lock switch terminal is connected incorrectly. - The door lock switch terminal is broken.	
	FL (Lock Fail)		- This occurs intermittently because of an electric wire leakage - Main PCB fault	

Error Type	For USA		Causes	Remarks
	LED	LCD		
Heater Error	Hr (Heater Relay)		- 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.
			- 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. - This occurs when the steam function does not operate normally. - This error does not occur in existing drum products. Check whether the product is a steam model	
Water Leakage Error	LE		- 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	OE		- 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	tE		- 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.	Heater sensor fault : When the connector is connected incorrectly or has a wire disconnected or contact error

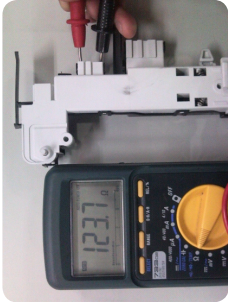
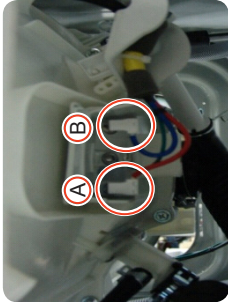
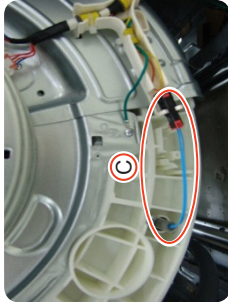
Error Type	For USA		Causes	Remarks
	LED	LCD		
Unbalance Error	dc		- As laundry causes this error, check the laundry. - Find the reason for the unbalance and solve it as directed in the user manual.	
Foaming Detected	SUDS		- This occurs when too much foaming is detected. It is also displayed while foaming 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 PBA Error Detected	8E1		- 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.	
	8E2			

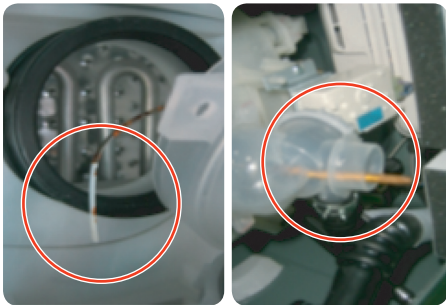
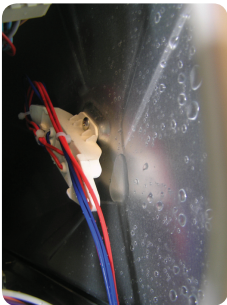
4-2. CORRECTIVE ACTIONS FOR EACH ERROR CODE

► 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
	LED	LCD			
Water Level Sensor	LE 1	ERROR! Water Level Sensor Problem	- 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 Oragne Color Wire - Frequency: Approx. 26.4 KHz with no load
	3E E3 bE	ERROR! The Motor is not working properly.	- Washing motor fault - Washing motor hall sensor fault - Incorrect connections of the washing motor/hall sensor connector - 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. - If the hall sensor terminal is faulty, replace the hall sensor. - 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) ► Check the motor Hall Sensor Check the resistance on the main PCB motor (Between pins 1 and 3, and 1 and 4 of the four (4) pins) - Resistance : Approx. 2 to 4 MΩ - Check the voltage when the power is on.

Error Type	Error Mode		Causes	Corrective Actions	Description of Photo
	LED	LCD			
Water Supply Error	nF	ERROR! Low Water Pressure	- Water supply valve fault - Main PCB fault - Freezing in the winter season	- If the water supply valve has a wire disconnected, replace it. - Check whether the water supply valve is clogged with foreign material and whether water is supplied continually. - Check whether no water is supplied because of freezing in the winter season. - If the PBA relay operates abnormally, replace the PBA.	- Check the resistance for the water supply valve. - Resistance: 1.0 to 2.0 kΩ between the terminals of the water supply valve. - Check whether there is foreign material in the water supply valve filter. - If the water supply valve filter is clogged, clean filter.
Drain Error	nd	ERROR! No Draining	- Freezing in the winter season - Foreign materials in the drain pump - Poor physical connection - Drain pump fault - Main PCB fault	- If the drain pump revolutions are restrained due to freezing in the winter season, check the method to remove the freezing and remove as directed. - Check whether the revolutions of the drain pump motor are restrained by foreign material, and remove as directed. - Check the wire connectors on Main PCB and Drain Pump ASSY. The connector or wire may have poor physical connection. - Check the drain pump resistance.	Check the drain pump resistance. (Resistance 20°C : 14.2 ohm ±7%)
Communication Error	AE	ERROR! Electronic Control Problem	- 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.	-

Error Type	Error Mode		Causes	Corrective Actions	Description of Photo
	LED	LCD			
Door Error	dS	ERROR! Door is open.	- 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 125Ω. 
	dL	ERROR! The Door was unlocked while the washer was running.			
	LO	ERROR! The Door will not unlock.			
Heater Error	Hr	ERROR! Water Temperature Control Problem	- Disconnection wire - Heater fault - 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	▶ TYPE 1 Check the resistance between A and B. It should be 16.05±0.65Ω.  [FRONT]
					▶ TYPE 2 If TYPE 1 is OK, Change a wash-thermistor at back of Tub.  [BACK]

Error Type	Error Mode		Causes	Corrective Actions	Description of Photo
	LED	LCD			
Water Leakage Error	LE	ERROR! Water Leakage Problem	- 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.
	OE	ERROR! Water Supply Problem	- 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.	 ▶ PUMP TYPE Check for any leakage on the base, Hose, Valve and Tub connections. Check the hose connected to the water level sensor. ☒ Check whether the hose is folded, cut, or damaged.
Overflow Error					

Error Type	Error Mode		Causes	Corrective Actions	Description of Photo
	LED	LCD			
Temperature Sensor Error	tE	ERROR! Temperature Sensor Problem	- Washing temperature sensor fault - Dry temperature sensor fault - Faulty and incorrect connections of the dry condensing sensor - 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. - A tE error occurs. - Check the connections for the dry heater temperature sensor connector. - If the dry heater temperature sensor has a functional error, replace it. - Check the connections for the duct condensing temperature sensor connector. - If the duct condensing temperature sensor has a functional error, replace it.	-
Unbalance Error	dc	ERROR! Unbalanced load	- Motor hall sensor fault - Caused by the laundry contents	- Check the type of laundry. Check whether they may cause an unbalanced situation. - Educate the consumer in this case is to press pause reposition the load or remove a few items. Press start to continue and complete the wash cycle.	-

MEMO

5. EXPLODED VIEWS AND PARTS LIST

[MATERIAL CODE STANDARDS]

Material codes and names and their respective naming rules are managed in accordance with the prescribed standards. Please refer to these standards when requesting a material.

1. Material Code Type

● : Number

■ : Letter (Alphabet)

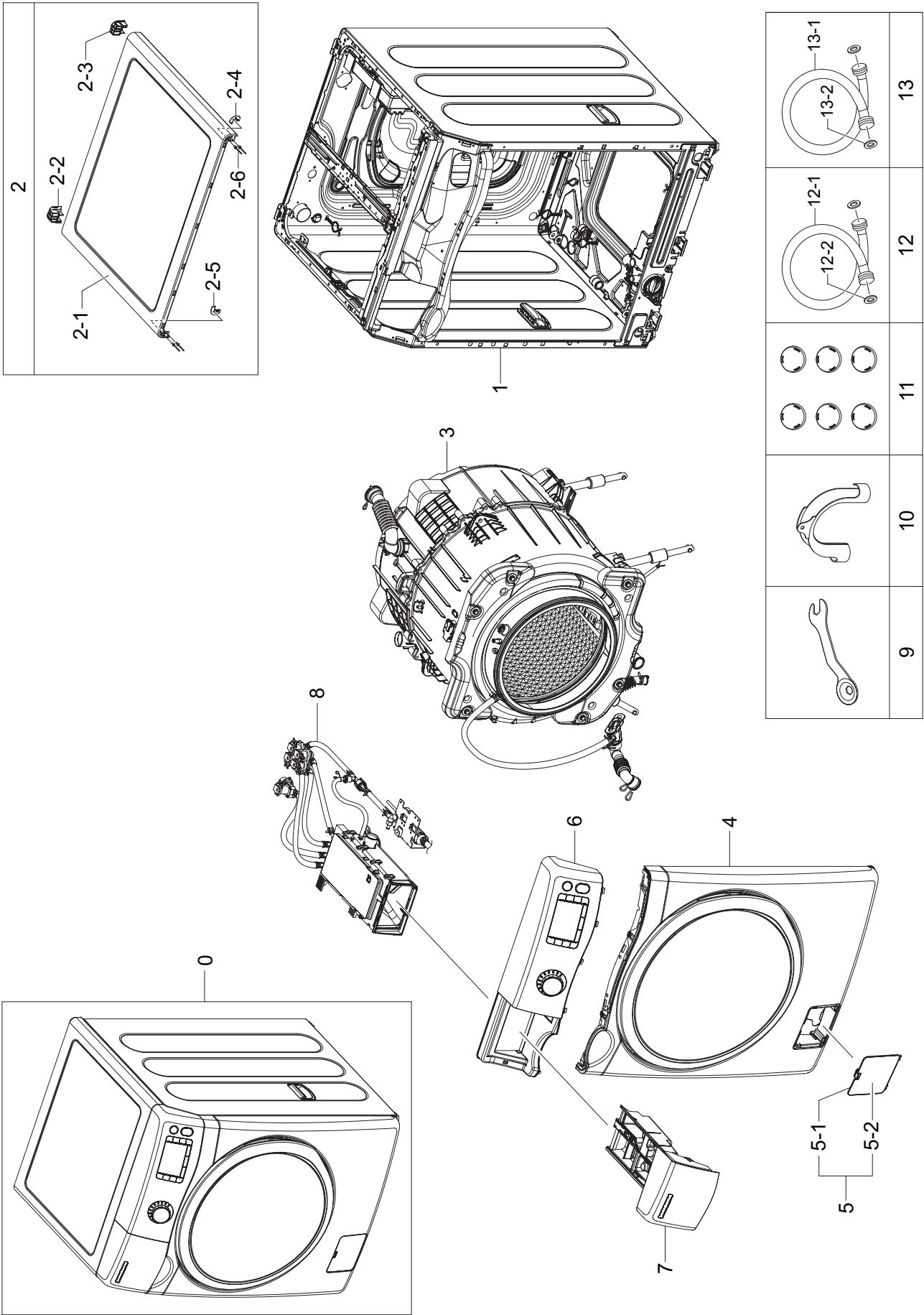
Type 1	●●●●-●●●●●● ex) 0204-000418 FREON	Enterprise-wide parts Type 1 materials can be used for all Samsung Electronics products. (Most electrical parts belong to this type.)
Type 2	■●●●-●●●●●■ ex) DC96-01390A ASSY-CONTROL	Division-wide parts (DC**-Washing machine) Type 2 materials can be used for specific products. (Most instruments and tools belong to this type.)

2. Ass'y Materials

All ass'y material codes start with DC9*.

An ass'y material is created by combining more than two materials. If a requested material cannot be provided, you can request an ass'y material that contains that material.

5-1. MAIN (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	WF520ABP	SET	WF520ABP/XAA	1		
1		FRAME & COVER PARTS	Refer to 5.2 FRAME & COVER PARTS	1		
2	DC97-15136C	ASSY COVER TOP	WF448AAP/XAA,PURPLE,EGI,T0.8,W684xH43,INOX	1	PC	SA
2-1	DC63-00926A	COVER-TOP	DV448AEP,VCM(GI),T0.8,W684,L576.5,-,-,PLATINUM-SIL,PURPLE-DRYER	1	PC	SNA
2-2	DC67-00333A	CAP-COVER TOP	DV448AEP,ABS,-,-,-,Platinum Silver,Purple PJT/VCM	1	PC	SNA
2-3	DC67-00348A	CAP-COVER TOP	DV448AEP,ABS,-,-,-,GRY,PURPLE-PJT/RIGHT	1	PC	SNA
2-4	DC61-02185A	BRACKET-COVER TOP	PURPLE-INOX,GI,T0.8,-,-,-,RIGHT	1	PC	SNA
2-5	DC61-02186A	BRACKET-COVER TOP	PURPLE-INOX,GI,T0.8,-,-,-,LEFT	1	PC	SNA
2-6	6041-001035	RIVET-RH	K1661-0512,AL(A5052),OD3.9,L11,NTR	4	PC	SNA
3	DC90-03505A	ASSY TUB&DRUM	WF448AAG,PURPLE	1	PC	SNA
4		ASSY-FRAME FRONT & DOOR	Refer to 5.4 FRAME FRONT & DOOR	1		
5	DC97-16018A	ASSY COVER FILTER	WF448AAP,PURPLE PJT(INOX),-,-,-,-	1	PC	SA
5-1	DC63-01151A	COVER-FILTER(B)	WF448AAG,ABS,T2.5,W151.2,L119.7,-,-,WHT,PURPLE-PJT/INOX	1	PC	SA
5-2	DC63-01157A	COVER-FILTER(F)	WF448AAW,VCM(GI),T0.8,W148.9,L117.4,-,-,INOX,-	1	PC	SA
6	DC97-16154A	ASSY PANEL CONTROL	PURPLE-PJT,WF448AAP,-,P/SILVER,-,-	1	PC	SNA
7	DC97-16144A	ASSY DRAWER	PURPLE,WF448AAP,P/SILVER(INOX)	1	PC	SA
8	DC97-16142A	ASSY HOUSING DRAWER	WF438AAC,MAIN/PRE/HOT/BLEACH/STEAM/4WAY,-,-,-,-	1	PC	SA
9	DC60-40146A	BOLT-SPANER	-,CR,-,T2.5,OD36,-,-,-,-	1	PC	SA
10	DC62-10278A	HOSE-HANGER	PP,NTR,JS20 RESIN	1	PC	SNA
11	DC67-00307A	CAP-FIXER	WF438AAC/XAA,PP,T1.5,Φ33,-,WHT,PURPLE-PJT	6	PC	SA
12	DC97-15691A	ASSY HOSE WATER	ACE,WF419AAW,HOT,L1240,OD15,ID8.7,BLK	1	PC	SA
12-1	DC62-00075A	HOSE-WATER(H)	-,NBR+NYLON,ID10.2,OD16.5,-,L1240,-,WSLS1100A0WW/HOT	1	PC	SA
12-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	2	PC	SA
13	DC97-15692A	ASSY HOSE WATER	ACE,WF419AAW,COLD,L1240,OD15,ID8.7,BLK	1	PC	SA
13-1	DC62-00075B	HOSE-WATER(C)	-,NBR+NYLON,ID10.2,OD16.5,-,L1240,-,WSLS1100A0WW/COLD	1	PC	SC
13-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	2	PC	SA

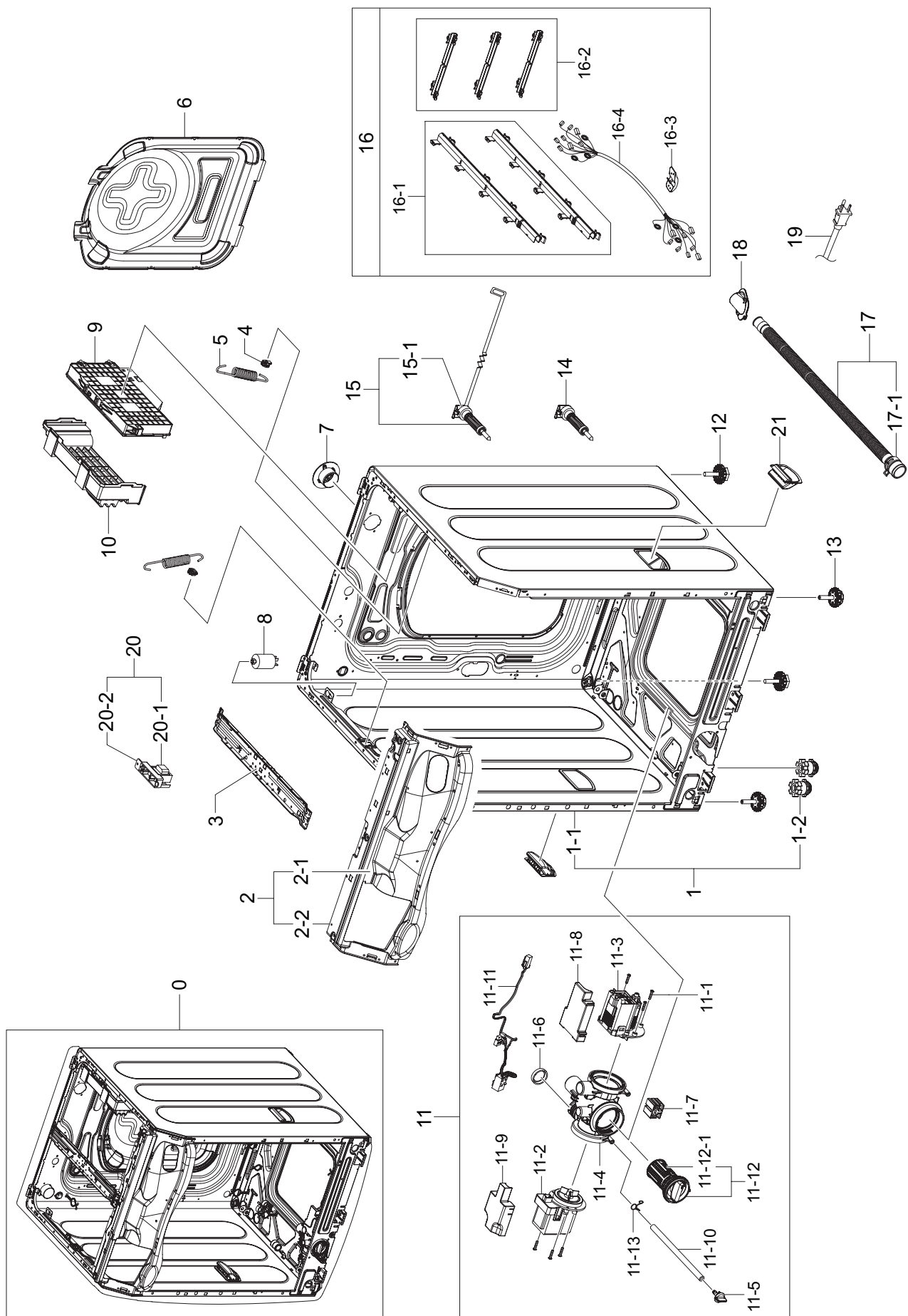
MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	WF520ABW	SET	WF520ABW/XAA	1		
1		FRAME & COVER PARTS	Refer to 5.2 FRAME & COVER PARTS	1		
2	DC97-15136C	ASSY COVER TOP	WF448AAP/XAA,PURPLE,EGI,T0.8,W684xH43,INOX	1	PC	SA
2-1	DC63-00926A	COVER-TOP	DV448AEP,VCM(GI),T0.8,W684,L576.5,-,-,PLATINUM-SIL,PURPLE-DRYER	1	PC	SNA
2-2	DC67-00333A	CAP-COVER TOP	DV448AEP,ABS,-,-,-,Platinum Silver,Purple PJT/VCM	1	PC	SNA
2-3	DC67-00348A	CAP-COVER TOP	DV448AEP,ABS,-,-,-,GRY,PURPLE-PJT/RIGHT	1	PC	SNA
2-4	DC61-02185A	BRACKET-COVER TOP	PURPLE-INOX,GI,T0.8,-,-,-,RIGHT	1	PC	SNA
2-5	DC61-02186A	BRACKET-COVER TOP	PURPLE-INOX,GI,T0.8,-,-,-,LEFT	1	PC	SNA
2-6	6041-001035	RIVET-RH	K1661-0512,AL(A5052),OD3.9,L11,NTR	4	PC	SNA
3	DC90-03505A	ASSY TUB&DRUM	WF448AAG,PURPLE	1	PC	SNA
4		ASSY-FRAME FRONT & DOOR	Refer to 5.4 FRAME FRONT & DOOR	1		
5	DC97-16018A	ASSY COVER FILTER	WF448AAP,PURPLE PJT(INOX),-,-,-,-	1	PC	SA
5-1	DC63-01151A	COVER-FILTER(B)	WF448AAG,ABS,T2.5,W151.2,L119.7,-,-,WHT,PURPLE-PJT/INOX	1	PC	SA
5-2	DC63-01157A	COVER-FILTER(F)	WF448AAW,VCM(GI),T0.8,W148.9,L117.4,-,-,INOX,-	1	PC	SA
6	DC97-16154A	ASSY PANEL CONTROL	PURPLE-PJT,WF448AAP,-,P/SILVER,-,-	1	PC	SNA
7	DC97-16144A	ASSY DRAWER	PURPLE,WF448AAP,P/SILVER(INOX)	1	PC	SA
8	DC97-16142A	ASSY HOUSING DRAWER	WF438AAC,MAIN/PRE/HOT/BLEACH/STEAM/4WAY,-,-,-,-	1	PC	SA
9	DC60-40146A	BOLT-SPANER	-,CR,-,T2.5,OD36,-,-,-,-	1	PC	SA
10	DC62-10278A	HOSE-HANGER	PP,NTR,JS20 RESIN	1	PC	SNA
11	DC67-00307A	CAP-FIXER	WF438AAC/XAA,PP,T1.5,Φ33,-,WHT,PURPLE-PJT	6	PC	SA
12	DC97-15691A	ASSY HOSE WATER	ACE,WF419AAW,HOT,L1240,OD15,ID8.7,BLK	1	PC	SA
12-1	DC62-00075A	HOSE-WATER(H)	-,NBR+NYLON,ID10.2,OD16.5,-,L1240,-,WSLS1100A0WW/HOT	1	PC	SA
12-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	2	PC	SA
13	DC97-15692A	ASSY HOSE WATER	ACE,WF419AAW,COLD,L1240,OD15,ID8.7,BLK	1	PC	SA
13-1	DC62-00075B	HOSE-WATER(C)	-,NBR+NYLON,ID10.2,OD16.5,-,L1240,-,WSLS1100A0WW/COLD	1	PC	SC
13-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	2	PC	SA

MEMO

38 _ Exploded views and Parts list



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		FRAME & COVER PARTS		1		
1	DC97-16016A	ASSY FRAME	WF448AAP,PURPLE PJT,-,-,-,INOX(P/SILVER)	1	PC	SA
1-1	DC61-02602A	FRAME	WF438AAC/XAA,PCM(GI),-,-,-,INOX(P-SILVER),T1.0,W686,L647,PURPLE INOX	1	PC	SNA
1-2	DC99-00815A	ASSY CUSHION PUMP	MARS-PJT,WF206LNW,-,-,-	2	PC	SA
2	DC97-16017A	ASSY FRAME PLATE(U)	PURPLE-PJT,WF448AAG,-,-,-,-	1	PC	SA
2-1	DC61-02008A	GUIDE-PANEL	WF448AAW,PP,T2.0,W51.2,L638.6,PURPLE-PJT/ MT43HG RESIN	1	PC	SA
2-2	DC61-02617A	FRAME-PLATE(U)	WF448AAC,GI,-,-,-,T1.6,W670.2,L139.2,PURPLE-PJT	1	PC	SA
3	DC97-08632K	ASSY GUIDE WIRE	GRACE-PJT,WF520,-,-,-,-	1	PC	SA
4	DC61-02432A	GUIDE-SPRING	WF419AAW,POM,T2.0,W81.5,L36.5,NTR,A CE_BEST	2	PC	SNA
5	DC61-01257E	SPRING ETC-HANGER	WF448AAG,SWP,CD4.5,ID24.8,OD33.8,L192,17 3/4,-,BLK,-,PURPLE-PJT	2	PC	SA
6	DC63-01163A	COVER-BACK	GW-PJT,GI,T0.35,W426,L507,-,-,-,NTR,GW-PJT	1	PC	SA
7	DC67-00316A	CAP-O.F	WF448AAG,PP,T2.0,-,-,-,OVER FLOW	1	PC	SNA
8	DC29-00013B	FILTER-EMI	-,-,250V,12,-,50/60Hz,CAN,-,-,-	1	PC	SA
9	DC92-00321A	ASSY PCB MAIN	PURPLE WASHER MAIN P,WF448,-,120V/60HZ,-,-	1	PC	SA
10	DC92-00411A	ASSY COVER PCB(M)	WF448AAG,PURPLE-PJT,-,-,-,-	1	PC	SNA
11	DC97-15974A	ASSY PUMP DRAIN	WF448AAG,CIRCULATION/9FT DRAIN/ISOLATED,-,-,-	1	PC	SNA
11-1	6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
11-2	DC31-00016A	PUMP-DRAIN	SW-70XP,120V,60Hz,SYNCHRONOUS-	1	PC	SC
11-3	DC31-00054A	PUMP-DRAIN	-,120V,60Hz,40mm,80W/3600RPM	1	PC	SA
11-4	DC61-02017C	CASE-PUMP	WF448AAP,PP,T3,W122,L140,-,NOT AIR HOSE	1	PC	SA
11-5	DC61-10673A	CAP-DRAIN	SWF-P12,PP(TB53),-,-,-,WHT,-,	1	PC	SNA
11-6	DC62-00202A	VALVE-CHECK	WINGS,EPDM,PO30,1~10BAR,BLK,FLOAT	1	PC	SA
11-7	DC63-00888A	CUSHION-PUMP	WF448AAG,EPDM,-,-,-,BLK,Hs50	1	PC	SNA
11-8	DC63-00985A	COVER-PUMP	COVER-PUMP,PP,T2.5,W60,L110,5VA,-,WHT,-	1	PC	SNA
11-9	DC63-01221A	COVER-PUMP	COVER-PUMP,PP,T2.5,W60,L110,5VA,-,WHT,-	1	PC	SNA
11-10	DC67-00244A	HOSE-DRAIN	HOSE-DRAIN,EPDM,ID6,OD11,T2.5,L200,BLK,-	1	PC	SA
11-11	DC93-00150A	ASSY WIRE HARNESS (PUMP)	PURPLE -PJT,-,-,-,SUB-WIRE(CIRCULATION,-,-	1	PC	SA
11-12	DC97-14976A	ASSY FILTER	PURPLE-PJT,ASSY-FILTER,-,-	1	PC	SA
11-13	DD65-00001F	CLAMPER HOSE	SDW-H120,STEEL,-,D10.5/T1.2,-,-	1	PC	SNA
12	DC97-12560A	ASSY LEG	WF206LNW,MARS-PJT,-,-,-,-	2	PC	SA
13	DC97-14293A	ASSY LEG	SEW-HVR149ATA,HYBRAR-RUBBER,-,-,-,HYBRAR-RUBBER	2	PC	SA
14	DC97-14489A	ASSY FIXER TUB	PURPLE-PJT,WF438AAC/XAA,-,-,-,-	3	PC	SA
15	DC97-14489B	ASSY FIXER TUB	PURPLE-PJT,WF448AAW/XAA,FIXER-CONNECTOR,-,-,-	1	PC	SA
15-1	DC60-00054A	SPACER-RING	WF317,GI,-,ID14.5,OD21,-,0.5t,-,JOINT-AIR ASSY	1	PC	SA
16	DC93-00149A	ASSY M. WIRE HARNESS	PURPLE,-,-,4.3Cu.ft/SIL,-,-	1	PC	SA

MODEL CODE: WF520ABP/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
16-1	DC61-02024A	GUIDE-WIRE(B)	WF448AAG/ XAA,PP,T2.5,W19,L190,NTR,PURPLE-PJT	2	PC	SNA
16-2	DC61-02025A	GUIDE-WIRE(A)	WF448AAG/XAA,PP(TB53),T2.5,W34,L550,- ,PURPLE-PJT	3	PC	SNA
16-3	DC61-02077A	GUIDE-WIRE	PURPLE,ABS(V0),T2.0,-,-,NTR,-	1	PC	SNA
16-4	DC93-00148A	ASSY WIRE HARNESS	PURPLE WASHER,-,-,4.3Cu.ft/SIL,-,-	1	PC	SNA
16-5	DC61-02077A	GUIDE-WIRE(TUB)	GUIDE-WIRE(TUB)	1	PC	?
17	DC97-12534D	ASSY HOSE DRAIN(I)	-,WF448AAW,BLOW-SPIRAL/ BUSH,L2459,-,-	1	PC	SA
17-1	DC61-01679A	CLAMPER HOSE	SEW-HFR177AR,SK5,-,T1.6/ID37/ OD39.2,NTR,-	1	PC	SA
18	DC61-02084A	GUIDE-HOSE	PURPLE,PP(T142),-,-,-,WHT,-	1	PC	SNA
19	DC96-00757A	ASSY POWER CORD	GW,-,UL/CSA,3/16AWG	1	PC	SA
20	DC96-01657A	ASSY TRANS REACTORV	PURPLE-PJT,120V/50~60Hz,-,-	1	PC	SNA
20-1	DC26-00009H	TRANS-REACTORV	-,PURPLE,-,3mH,110V-120V,6A,- ,110V-120V,6A,-,60Hz,SILICON STEEL 0.5t,48x40mm,-,-,-,2UEW	1	PC	SA
20-2	DC61-00899A	BRACKET-REACTOR	TS85-PJT,PP,T3.0,NTR,5VA GRADE	1	PC	SA
21	DC97-15854E	ASSY HANDLE	ACE,DRUM WASHER,PP,DARK-GREY	2	PC	SNA

MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

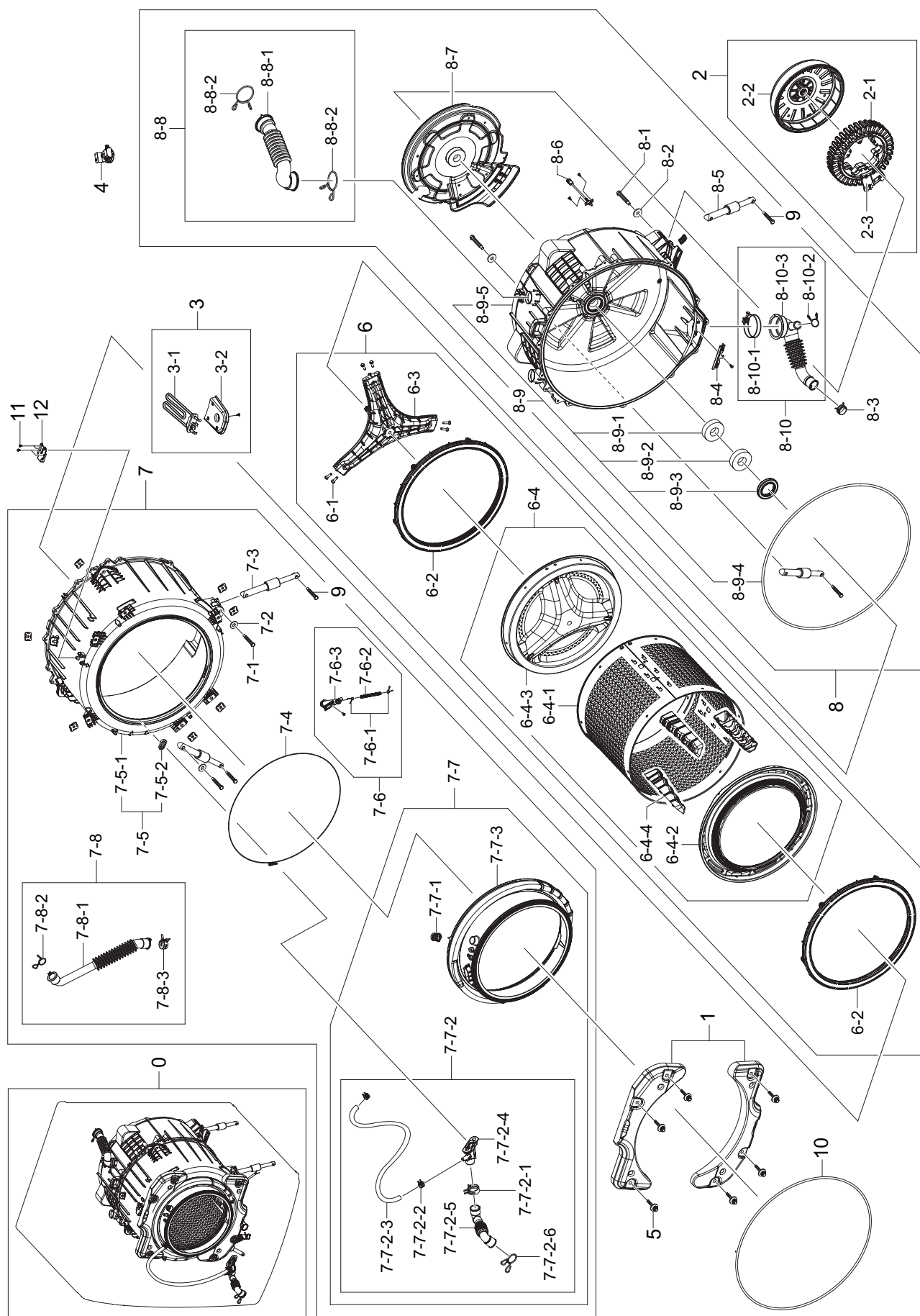
Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		FRAME & COVER PARTS		1		
1	DC97-16016A	ASSY FRAME	WF448AAP,PURPLE PJT,-,-,-,INOX(P/SILVER)	1	PC	SA
1-1	DC61-02602A	FRAME	WF438AAC/XAA,PCM(GI),-,-,-,INOX(P-SILVER),T1.0,W686,L647,PURPLE INOX	1	PC	SNA
1-2	DC99-00815A	ASSY CUSHION PUMP	MARS-PJT,WF206LNW,-,-,-	2	PC	SA
2	DC97-16017A	ASSY FRAME PLATE(U)	PURPLE-PJT,WF448AAG,-,-,-,-	1	PC	SA
2-1	DC61-02008A	GUIDE-PANEL	WF448AAW,PP,T2.0,W51.2,L638.6,PURPLE-PJT/ MT43HG RESIN	1	PC	SA
2-2	DC61-02617A	FRAME-PLATE(U)	WF448AAC,GI,-,-,-,T1.6,W670.2,L139.2,PURPLE-PJT	1	PC	SA
3	DC97-08632K	ASSY GUIDE WIRE	GRACE-PJT,WF520,-,-,-,-	1	PC	SA
4	DC61-02432A	GUIDE-SPRING	WF419AAW,POM,T2.0,W81.5,L36.5,NTR,A CE_BEST	2	PC	SNA
5	DC61-01257E	SPRING ETC-HANGER	WF448AAG,SWP,CD4.5,ID24.8,OD33.8,L192,17 3/4,-,BLK,-,PURPLE-PJT	2	PC	SA
6	DC63-01163A	COVER-BACK	GW-PJT,GI,T0.35,W426,L507,-,-,-,NTR,GW-PJT	1	PC	SA
7	DC67-00316A	CAP-O.F	WF448AAG,PP,T2.0,-,-,-,OVER FLOW	1	PC	SNA
8	DC29-00013B	FILTER-EMI	-,-,250V,12,-,50/60Hz,CAN,-,-,-	1	PC	SA
9	DC92-00321A	ASSY PCB MAIN	PURPLE WASHER MAIN P,WF448,-,120V/60HZ,-,-	1	PC	SA
10	DC92-00411A	ASSY COVER PCB(M)	WF448AAG,PURPLE-PJT,-,-,-,-	1	PC	SNA
11	DC97-15974A	ASSY PUMP DRAIN	WF448AAG,CIRCULATION/9FT DRAIN/ISOLATED,-,-,-	1	PC	SNA
11-1	6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
11-2	DC31-00016A	PUMP-DRAIN	SW-70XP,120V,60Hz,SYNCHRONOUS-	1	PC	SC
11-3	DC31-00054A	PUMP-DRAIN	-,120V,60Hz,40mm,80W/3600RPM	1	PC	SA
11-4	DC61-02017C	CASE-PUMP	WF448AAP,PP,T3,W122,L140,-,NOT AIR HOSE	1	PC	SA
11-5	DC61-10673A	CAP-DRAIN	SWF-P12,PP(TB53),-,-,-,WHT,-,	1	PC	SNA
11-6	DC62-00202A	VALVE-CHECK	WINGS,EPDM,PO30,1~10BAR,BLK,FLOAT	1	PC	SA
11-7	DC63-00888A	CUSHION-PUMP	WF448AAG,EPDM,-,-,-,BLK,Hs50	1	PC	SNA
11-8	DC63-00985A	COVER-PUMP	COVER-PUMP,PP,T2.5,W60,L110,5VA,-,WHT,-	1	PC	SNA
11-9	DC63-01221A	COVER-PUMP	COVER-PUMP,PP,T2.5,W60,L110,5VA,-,WHT,-	1	PC	SNA
11-10	DC67-00244A	HOSE-DRAIN	HOSE-DRAIN,EPDM,ID6,OD11,T2.5,L200,BLK,-	1	PC	SA
11-11	DC93-00150A	ASSY WIRE HARNESS (PUMP)	PURPLE -PJT,-,-,-,SUB-WIRE(CIRCULATION,-,-	1	PC	SA
11-12	DC97-14976A	ASSY FILTER	PURPLE-PJT,ASSY-FILTER,-,-	1	PC	SA
11-13	DD65-00001F	CLAMPER HOSE	SDW-H120,STEEL,-,D10.5/T1.2,-,-	1	PC	SNA
12	DC97-12560A	ASSY LEG	WF206LNW,MARS-PJT,-,-,-,-	2	PC	SA
13	DC97-14293A	ASSY LEG	SEW-HVR149ATA,HYBRAR-RUBBER,-,-,-,HYBRAR-RUBBER	2	PC	SA
14	DC97-14489A	ASSY FIXER TUB	PURPLE-PJT,WF438AAC/XAA,-,-,-,-	3	PC	SA
15	DC97-14489B	ASSY FIXER TUB	PURPLE-PJT,WF448AAW/XAA,FIXER-CONNECTOR,-,-,-	1	PC	SA
15-1	DC60-00054A	SPACER-RING	WF317,GI,-,ID14.5,OD21,-,0.5t,-,JOINT-AIR ASSY	1	PC	SA
16	DC93-00149A	ASSY M. WIRE HARNESS	PURPLE,-,-,4.3Cu.ft/SIL,-,-	1	PC	SA

MODEL CODE: WF520ABW/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
16-1	DC61-02024A	GUIDE-WIRE(B)	WF448AAG/XAA,PP,T2.5,W19,L190,NTR,PURPLE-PJT	2	PC	SNA
16-2	DC61-02025A	GUIDE-WIRE(A)	WF448AAG/XAA,PP(TB53),T2.5,W34,L550,-,PURPLE-PJT	3	PC	SNA
16-3	DC61-02077A	GUIDE-WIRE	PURPLE,ABS(V0),T2.0,-,-,NTR,-	1	PC	SNA
16-4	DC93-00148A	ASSY WIRE HARNESS	PURPLE WASHER,-,-,4.3Cu.ft/SIL,-,-	1	PC	SNA
16-5	DC61-02077A	GUIDE-WIRE(TUB)	GUIDE-WIRE(TUB)	1	PC	?
17	DC97-12534D	ASSY HOSE DRAIN(I)	-,WF448AAW,BLOW-SPIRAL/BUSH,L2459,-,-	1	PC	SA
17-1	DC61-01679A	CLAMPER HOSE	SEW-HFR177AR,SK5,-,T1.6/ID37/OD39.2,NTR,-	1	PC	SA
18	DC61-02084A	GUIDE-HOSE	PURPLE,PP(T142),-,-,-,WHT,-	1	PC	SNA
19	DC96-00757A	ASSY POWER CORD	GW,-,UL/CSA,3/16AWG	1	PC	SA
20	DC96-01657A	ASSY TRANS REACTORV	PURPLE-PJT,120V/50~60Hz,-,-	1	PC	SNA
20-1	DC26-00009H	TRANS-REACTORV	-,PURPLE,-,3mH,110V-120V,6A,-,110V-120V,6A,-,60Hz,SILICON STEEL 0.5t,48x40mm,-,-,-,2UEW	1	PC	SA
20-2	DC61-00899A	BRACKET-REACTOR	TS85-PJT,PP,T3.0,NTR,5VA GRADE	1	PC	SA
21	DC97-15854E	ASSY HANDLE	ACE,DRUM WASHER,PP,DARK-GREY	2	PC	SNA

MEMO

5-3. ASS'Y TUB & DRUM (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC90-03505A	ASSY TUB&DRUM	WF448AAG,PURPLE	1	PC	SNA
1	DC67-00463A	WEIGHT-BALANCER		2	PC	SA
2	DC96-01218D	ASSY DD BLDC MOTOR	DON1500,34mm/Cu Wire/7BD,-,-,-,-	1	PC	SA
2-1	DC31-00074C	MOTOR BLDC-ASSY STATOR	DON1500,0~1300,30Nm,DC310V,5A,30 Nm,DC,1500W,DON1500,CU WIRE,-,-,-,130,34mm	1	PC	SA
2-2	DC31-00075C	MOTOR BLDC-ASSY ROTOR	DON1500,0~1300,-,DC310V,5A,-,DC,1500W,ASS'Y ROTOR,JACOBI15 NEW SERRATION,-,-,-,130°C,MAGNET 40mm	1	PC	SA
2-3	DC31-00076A	MOTOR BLDC-ASSY HALL SENSOR	DON1300,0~1200,-,DC310V,0.5A,-,DC,-,ASSY HALL SENSOR,ASSY HALL SENSOR,-,-,-,130C	1	PC	SA
3	DC96-01417B	ASSY HEATER	WF337AAW,COVER+DC47-00006P,-,-	1	PC	SNA
3-1	DC47-00006Y	HEATER-WASH	GE24" WASHER,Incoloy800,900W,7.12~7.8 8A,120V,15.4~16.7,131,177,Double Fuse/No Thermistor/ Insulator(Red+Blue)	1	PC	SA
3-2	DC63-00820A	COVER-HEATER	WF337AAW,ABS+PC,-,-,-,-,-,FRONTIER2	1	PC	SNA
4	DC96-01703B	ASSY SENSOR PRESSURE	PURPLE PJT,PURPLE PJT,0~300mmH20,non pcb,-,-	1	PC	SA
5	DC97-02412A	ASSY BOLT	SWF-P12,MOTOR/ M8*L62,-,-,-,-	6	PC	SA
6	DC97-16086A	ASSY DRUM	PURPLE-PJT,WASHER/4.3CUFT,-,-,-,-	1	PC	SA
6-1	DC60-40137A	BOLT-HEX	MARS-PJT,STS430,M8,-,P1.25,L30,-,-,HEX/KNURING	6	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-3	DC97-14421A	ASSY FLANGE SHAFT	PURPLE-PJT,-,-,-,-,-	1	PC	SA
6-4	DC97-16089A	ASSY DRUM WRAPPER	PURPLE,-,-,-,-,-	1	PC	SNA
6-4-1	DC66-00594A	DRUM-WRAPPER	PURPLE-PJT,STS430,-,-,-,-,T0.6	1	PC	SNA
6-4-2	DC66-00506A	DRUM-FRONT	PURPLE PJT,STS430,-,-,-,-,T0.6	1	PC	SNA
6-4-3	DC66-00507A	DRUM-BACK	PURPLE- PJT,STS430,T0.5,-,-,-,-	1	PC	SNA
6-4-4	DC66-00598A	DRUM-LIFTER	PURPLE- PJT,PP,-,-,-,CP,-	3	PC	SA
7	DC97-16149A	ASSY TUB FRONT	WF448AAG,PURPLE,-,-,-,-	1	PC	SNA
7-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
7-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
7-3	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,-,-,-	2	PC	SA
7-4	DC97-04981F	ASSY CLAMP DIAPHGRAM	PURPLE,WF448AAW,-,-,-,-	1	PC	SA
7-5	DC97-16156A	ASSY SEMI TUB FRONT	PURPLE,WF448AAP,-,-,-,-	1	PC	SA
7-5-1	DC61-02629A	TUB-FRONT	PURPLE,FRPP-GF15%,-,-,-,NTR,4.3CuFt	1	PC	SNA
7-5-2	DC62-00268A	SEAL-CONNECTOR		1	PC	
7-6	DC97-14545C	ASSY HOSE PRESSURE	PURPLE,-,-,-,-,-	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR67,CD1.2,ID8.5,OD10.9,-,-,-,WHT,-,-	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR67,CD1.2,ID8.5,OD10.9,-,-,-,WHT,-,-	1	PC	SA
7-6-2	DC67-00089M	HOSE-WATER	WR-PA179UR,TPE,ID5,OD9,T2.0,L920,BLK	1	PC	SNA
7-6-3	DC67-00319A	HOSE-JOINT AIR	WF448AAG,PP,-,-,-,T1.8,L165.3,WHT,-	1	PC	SNA
7-7	DC97-16140A	ASSY DIAPHRAGM	PURPLE,-,-,-,-,-	1	PC	SA
7-7-1	DC47-00027B	LAMP-ASSY LAMP	Tub Light,Tub Light,-,300mm,-,-,30mA,110mW,3.6V,-	1	PC	SNA

MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
7-7-2	DC97-16103A	ASSY-HOSE AIR		1	PC	
7-7-2-1	DC61-00219F	CLAMPER HOSE		1	PC	
7-7-2-2	DC65-00008A	CLAMPER HOSE		2	PC	
7-7-2-3	DC67-00351A?	HOSE-AIR PUMP		1	PC	
7-7-2-4	DC67-00353A	HOSE-CONNNECTOR		1	PC	
7-7-2-5	DC67-00469A	HOSE-AIR TUB		1	PC	
7-7-2-6	DC72-00001J	BAND-RING		1	PC	
7-7-3	DC64-02174A	DOOR-DIAPHRAGM	PURPLE,EPDM,-,-,-,-,GRY,-	1	PC	SA
7-8	DC97-16106A	ASSY-HOSE AIR		1	PC	SA
7-8-1	DC67-00468A	HOSE-AIR		1	PC	SNA
7-8-2	DC65-60118J	BAND-RING		1	PC	
7-8-3	DC61-00158A	CLAMPER-HOSE		1	PC	
8	DC97-16150A	ASSY TUB BACK	WF448AAG,PURPLE,-,-,-,-,-	1	PC	SNA
8-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
8-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
8-3	DC61-00219D	CLAMPER HOSE	SW-50A1S,SK5,-,ID33/OD35,-,MFZNT	1	PC	SNA
8-4	DC61-01482A	BRACKET-HEATER	GW-PJT,STS430/304,T0.5,W96,L25,NTR,NEW	1	PC	SNA
8-5	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,-,-,-,-	2	PC	SA
8-6	DC90-10128H	ASSY THERMISTOR	KS-PJT,RUBBER ADD,-,-,-	1	PC	SA
8-7	DC97-14574A	ASSY BRACKET TUB	PURPLE,-,-,-,-,-	1	PC	SA
8-8	DC97-16104A	ASSY HOSE O.F	PURPLE,WF448AAG,-,-,-,-	1	PC	SA
8-8-1	DC67-00466A	HOSE-O.F	WF448AAG,EPDM,-,-,T2.0,-,-,PURPLE	1	PC	SA
8-8-2	DC72-00001F	BAND-RING	DRUM-MODEL,HSWR,-,-,-,YEL,ID65.5	2	PC	SA
8-9	DC97-16151A	ASSY S.TUB BACK	WF448AAG,PURPLE/SVC,-,-,-,-,-	1	PC	SA
8-9-1	6601-001207	BEARING-BALL	6307ZZ,ID35,OD80,L21,STS304,KBC	1	PC	SNA
8-9-2	6601-001208	BEARING-BALL	6306ZZ,ID30,OD72,L19,STS304,KBC	1	PC	SNA
8-9-3	DC62-00156A	SEAL-OIL	TS85-PJT,NBR(SD45.5),BLK,-,-,-,JINYANG	1	PC	SA
8-9-4	DC69-00804A	PACKING-TUB	GW-PJT,-,EPDM,PI8,W624,L1930,H624,BLK,45.000g,-,-,-,-	1	PC	SA
8-9-5	DC97-16155A	ASSY SEMI TUB BACK	WF448AAG,PURPLE,-,-,-,-,-	1	PC	SNA
8-10	DC97-16105A	ASSY HOSE DRAIN	PURPLE,-,-,-,-,-	1	PC	SNA
8-10-1	DC65-00014A	CLAMPER HOSE-JOINT	GW-PJT,HSWR,-,ID82,ZPC2,HOSE-FILTER	1	PC	SA
8-10-2	DC65-60125B	BAND-RING	-,HSWR,T2.4,PI25,-,YEL,-	1	PC	SNA
8-10-3	DC67-00465A	HOSE-DRAIN	WF438AAG,EPDM,-,-,T2.0,-,BLK,-	1	PC	SA
9	6011-001644	BOLT-HEX	M10,L40,ZPC2(YEL),SM10C,DAMPER	4	PC	SA
10	DC97-04973B	ASSY WIRE DIAPHRAGM	SEW-HFR167AR,-,-,STS304(T0.9),-,-	1	PC	SA
11	6002-000213	SCREW-TAPPING		4	PC	SA
12	DC92-00354A	ASSY-PCB MEMS		2	PC	SA

MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC90-03505A	ASSY TUB&DRUM	WF448AAG,PURPLE	1	PC	SNA
1	DC67-00463A	WEIGHT-BALANCER		2	PC	SA
2	DC96-01218D	ASSY DD BLDC MOTOR	DON1500,34mm/Cu Wire/7BD,-,-,-,-	1	PC	SA
2-1	DC31-00074C	MOTOR BLDC-ASSY STATOR	DON1500,0~1300,30Nm,DC310V,5A,30 Nm,DC,1500W,DON1500,CU WIRE,-,-,-,130,34mm	1	PC	SA
2-2	DC31-00075C	MOTOR BLDC-ASSY ROTOR	DON1500,0~1300,-,DC310V,5A,-,DC,1500W,ASS'Y ROTOR,JACOBI15 NEW SERRATION,-,-,-,130°C,MAGNET 40mm	1	PC	SA
2-3	DC31-00076A	MOTOR BLDC-ASSY HALL SENSOR	DON1300,0~1200,-,DC310V,0.5A,-,DC,-,ASSY HALL SENSOR,ASSY HALL SENSOR,-,-,-,130C	1	PC	SA
3	DC96-01417B	ASSY HEATER	WF337AAW,COVER+DC47-00006P,-,-	1	PC	SNA
3-1	DC47-00006Y	HEATER-WASH	GE24" WASHER,Incoloy800,900W,7.12~7.8 8A,120V,15.4~16.7,131,177,Double Fuse/No Thermistor/ Insulator(Red+Blue)	1	PC	SA
3-2	DC63-00820A	COVER-HEATER	WF337AAW,ABS+PC,-,-,-,-,-,FRONTIER2	1	PC	SNA
4	DC96-01703B	ASSY SENSOR PRESSURE	PURPLE PJT,PURPLE PJT,0~300mmH20,non pcb,-,-	1	PC	SA
5	DC97-02412A	ASSY BOLT	SWF-P12,MOTOR/ M8*L62,-,-,-,-	6	PC	SA
6	DC97-16086A	ASSY DRUM	PURPLE-PJT,WASHER/4.3CUFT,-,-,-,-	1	PC	SA
6-1	DC60-40137A	BOLT-HEX	MARS-PJT,STS430,M8,-,P1.25,L30,-,-,HEX/KNURING	6	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-3	DC97-14421A	ASSY FLANGE SHAFT	PURPLE-PJT,-,-,-,-,-	1	PC	SA
6-4	DC97-16089A	ASSY DRUM WRAPPER	PURPLE,-,-,-,-,-	1	PC	SNA
6-4-1	DC66-00594A	DRUM-WRAPPER	PURPLE-PJT,STS430,-,-,-,-,T0.6	1	PC	SNA
6-4-2	DC66-00506A	DRUM-FRONT	PURPLE PJT,STS430,-,-,-,-,T0.6	1	PC	SNA
6-4-3	DC66-00507A	DRUM-BACK	PURPLE- PJT,STS430,T0.5,-,-,-,-	1	PC	SNA
6-4-4	DC66-00598A	DRUM-LIFTER	PURPLE- PJT,PP,-,-,-,CP,-	3	PC	SA
7	DC97-16149A	ASSY TUB FRONT	WF448AAG,PURPLE,-,-,-,-	1	PC	SNA
7-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
7-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
7-3	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,-,-,-	2	PC	SA
7-4	DC97-04981F	ASSY CLAMP DIAPHGRAM	PURPLE,WF448AAW,-,-,-,-	1	PC	SA
7-5	DC97-16156A	ASSY SEMI TUB FRONT	PURPLE,WF448AAP,-,-,-,-	1	PC	SA
7-5-1	DC61-02629A	TUB-FRONT	PURPLE,FRPP-GF15%,-,-,-,NTR,4.3CuFt	1	PC	SNA
7-5-2	DC62-00268A	SEAL-CONNECTOR		1	PC	
7-6	DC97-14545C	ASSY HOSE PRESSURE	PURPLE,-,-,-,-,-	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR67,CD1.2,ID8.5,OD10.9,-,-,-,WHT,-,-	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR67,CD1.2,ID8.5,OD10.9,-,-,-,WHT,-,-	1	PC	SA
7-6-2	DC67-00089M	HOSE-WATER	WR-PA179UR,TPE,ID5,OD9,T2.0,L920,BLK	1	PC	SNA
7-6-3	DC67-00319A	HOSE-JOINT AIR	WF448AAG,PP,-,-,-,T1.8,L165.3,WHT,-	1	PC	SNA
7-7	DC97-16140A	ASSY DIAPHRAGM	PURPLE,-,-,-,-,-	1	PC	SA
7-7-1	DC47-00027B	LAMP-ASSY LAMP	Tub Light,Tub Light,-,300mm,-,-,30mA,110mW,3.6V,-	1	PC	SNA

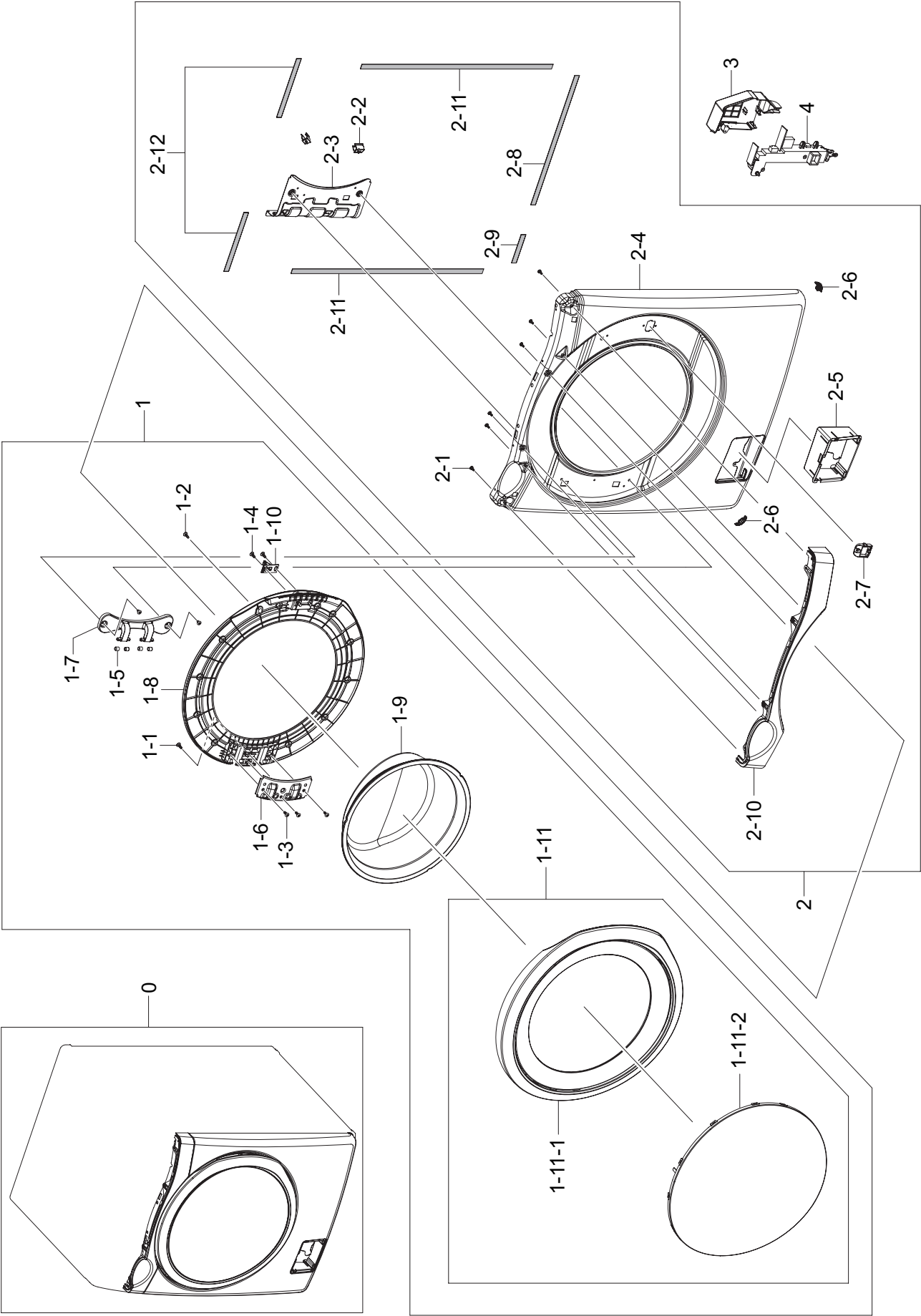
MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
7-7-2	DC97-16103A	ASSY-HOSE AIR		1	PC	
7-7-2-1	DC61-00219F	CLAMPER HOSE		1	PC	
7-7-2-2	DC65-00008A	CLAMPER HOSE		2	PC	
7-7-2-3	DC67-00351A?	HOSE-AIR PUMP		1	PC	
7-7-2-4	DC67-00353A	HOSE-CONNNECTOR		1	PC	
7-7-2-5	DC67-00469A	HOSE-AIR TUB		1	PC	
7-7-2-6	DC72-00001J	BAND-RING		1	PC	
7-7-3	DC64-02174A	DOOR-DIAPHRAGM	PURPLE,EPDM,-,-,-,-,GRY,-	1	PC	SA
7-8	DC97-16106A	ASSY-HOSE AIR		1	PC	SA
7-8-1	DC67-00468A	HOSE-AIR		1	PC	SNA
7-8-2	DC65-60118J	BAND-RING		1	PC	
7-8-3	DC61-00158A	CLAMPER-HOSE		1	PC	
8	DC97-16150A	ASSY TUB BACK	WF448AAG,PURPLE,-,-,-,-,-	1	PC	SNA
8-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
8-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
8-3	DC61-00219D	CLAMPER HOSE	SW-50A1S,SK5,-,ID33/OD35,-,MFZNT	1	PC	SNA
8-4	DC61-01482A	BRACKET-HEATER	GW-PJT,STS430/304,T0.5,W96,L25,NTR,NEW	1	PC	SNA
8-5	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,-,-,-,-	2	PC	SA
8-6	DC90-10128H	ASSY THERMISTOR	KS-PJT,RUBBER ADD,-,-,-	1	PC	SA
8-7	DC97-14574A	ASSY BRACKET TUB	PURPLE,-,-,-,-,-	1	PC	SA
8-8	DC97-16104A	ASSY HOSE O.F	PURPLE,WF448AAG,-,-,-,-	1	PC	SA
8-8-1	DC67-00466A	HOSE-O.F	WF448AAG,EPDM,-,-,T2.0,-,-,PURPLE	1	PC	SA
8-8-2	DC72-00001F	BAND-RING	DRUM-MODEL,HSWR,-,-,-,YEL,ID65.5	2	PC	SA
8-9	DC97-16151A	ASSY S.TUB BACK	WF448AAG,PURPLE/SVC,-,-,-,-,-	1	PC	SA
8-9-1	6601-001207	BEARING-BALL	6307ZZ,ID35,OD80,L21,STS304,KBC	1	PC	SNA
8-9-2	6601-001208	BEARING-BALL	6306ZZ,ID30,OD72,L19,STS304,KBC	1	PC	SNA
8-9-3	DC62-00156A	SEAL-OIL	TS85-PJT,NBR(SD45.5),BLK,-,-,-,JINYANG	1	PC	SA
8-9-4	DC69-00804A	PACKING-TUB	GW-PJT,-,EPDM,PI8,W624,L1930,H624,BLK,45.000g,-,-,-,-	1	PC	SA
8-9-5	DC97-16155A	ASSY SEMI TUB BACK	WF448AAG,PURPLE,-,-,-,-,-	1	PC	SNA
8-10	DC97-16105A	ASSY HOSE DRAIN	PURPLE,-,-,-,-,-	1	PC	SNA
8-10-1	DC65-00014A	CLAMPER HOSE-JOINT	GW-PJT,HSWR,-,ID82,ZPC2,HOSE-FILTER	1	PC	SA
8-10-2	DC65-60125B	BAND-RING	-,HSWR,T2.4,PI25,-,YEL,-	1	PC	SNA
8-10-3	DC67-00465A	HOSE-DRAIN	WF438AAG,EPDM,-,-,T2.0,-,BLK,-	1	PC	SA
9	6011-001644	BOLT-HEX	M10,L40,ZPC2(YEL),SM10C,DAMPER	4	PC	SA
10	DC97-04973B	ASSY WIRE DIAPHRAGM	SEW-HFR167AR,-,-,STS304(T0.9),-,-	1	PC	SA
11	6002-000213	SCREW-TAPPING		4	PC	SA
12	DC92-00354A	ASSY-PCB MEMS		2	PC	SA

MEMO

5-4. ASS'Y FRAME FRONT & DOOR (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		ASSY-FRAME FRONT & DOOR		1		
1	DC97-16145A	ASSY DOOR	PURPLE,WF448AAP,-,-,OD541.7,-	1	PC	SA
1-1	6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	1	PC	SA
1-2	6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	15	PC	SNA
1-3	6002-001204	SCREW-TAPPING	TH,+,1,M4,L16,PASS,STS430,-	8	PC	SA
1-4	6002-001279	SCREW-TAPPING	PWH,+,1,M4,L12,PASS,STS304,-	2	PC	SA
1-5	DC61-00891A	GUIDE-HINGE	HAUZEN(DOM),POM,-,-,-,WHT,HINGE	4	PC	SA
1-6	DC61-02635A	SUPPORT-HINGE	FRONTIER-PJT,SBHG1-A(SGCC),T1.4,-,-,-,HOLDER-GLASS(GI)	1	PC	SA
1-7	DC64-02640A	HINGE-DOOR	PURPLE-PJT,ALDC8,T3.0,W39.5,L212.9,-,-,-	1	PC	SA
1-8	DC61-02634A	HOLDER-GLASS	PURPLE-PJT,PP,T2.8,W542,L564,GRY,TB53	1	PC	SA
1-9	DC64-00504A	DOOR-GLASS	TS85-PJT,SODALIME,-,-,-,-,N.TEMP	1	PC	SC
1-10	DC66-00375A	LEVER-DOOR	10KG DRUM,ZNDC,2.5MM,-,-,-,NI+CR COATING,-	1	PC	SC
1-11	DC97-15667B	ASSY COVER DOOR	PURPLE,WF448,STS430/DOOR SAFETY Transparen	1	PC	SA
1-11-1	DC63-01160A	COVER-DOOR	PURPLE-PJT,ABS(GP-35),T2.5,W541,L541,-,-,-,-	1	PC	SA
1-11-2	DC64-02144A	DOOR-SAFETY	ACE-PJT,PET,T2.5,-,W514,L514,-,-	1	PC	SA
2	DC97-16019A	ASSY FRAME FRONT	WF448AAP,PURPLE PJT,-,-,-,INOX(P/SILVER)	1	PC	SA
2-1	6002-000239	SCREW-TAPPING	TH,+,2,S,M4,L8,ZPC(WHT),SWRCH18A,-	8	PC	SA
2-1	6002-000239	SCREW-TAPPING	TH,+,2,S,M4,L8,ZPC(WHT),SWRCH18A,-	4	PC	SA
2-2	DC61-01081A	HOLDER-HOSE	Q1636,NYLON66,T1.5,-,-,NTR,TS-2 PJT	2	PC	SA
2-3	DC61-02615A	BRACKET-HINGE	PURPLE-PJT,SGCC(GI),T2.0,W39.5,L213,-,-	1	PC	SA
2-4	DC61-02612A	FRAME-FRONT	WF448AAC/XAA,VCM(GI),-,-,-,INOX,T0.8,W684,L824.4,PURPLE-PJT	1	PC	SNA
2-5	DC61-02621A	GUIDE-COVER FILTER	WF448AAP,PP(FC2305),T2.5,W151,L120,GRY,PURPLE-PJT(INOX)	1	PC	SNA
2-6	DC63-00959A	COVER-FRONT	WF448AAP,PP,-,W8.5,L25.5,-,-,-,INOX,PURPLE INOX	2	PC	SA
2-7	DC63-00960A	COVER-SWITCH(O)	WF218,POM,T3,-,-,-,-,NATURAL,DOOR LOSCK SWITCH	1	PC	SA
2-8	DC63-10001D	SPONGE-EPDM	EPDM,T1.0,W15,L400,GRY	1	PC	SNA
2-9	DC63-10001W	SPONGE-EPDM	EPDM,T1,W15,L150,GRY	1	PC	SNA
2-10	DC64-02162A	DECORATION-FRONT	WF438AAC/XAA,STS430,T0.8,W684,L69,-,-,-,PURPLE-PJT	1	PC	SA
2-11	DC72-00034T	SPONGE-EPDM	WF448AAP/XXA,EPDM,-,T1,W15,L700,GRY,PURPLE-PJT	2	PC	SNA
2-12	DC72-00069A	SPONGE-EPDM	WF448AAP,EPDM,-,T1.0,W30,L200,GRY,PURPLE INOX	2	PC	SA
3	DC63-01156A	COVER-DOOR SWITCH	FRONTIER,PP(V0),-,-,-,-,NTL,-	1	PC	SA
4	DC64-00519B	DOOR-LOCK S/W	GW-PJT,PP-GF,-,-,-,-,BLK,120V/50~60Hz/16A/857	1	PC	SA

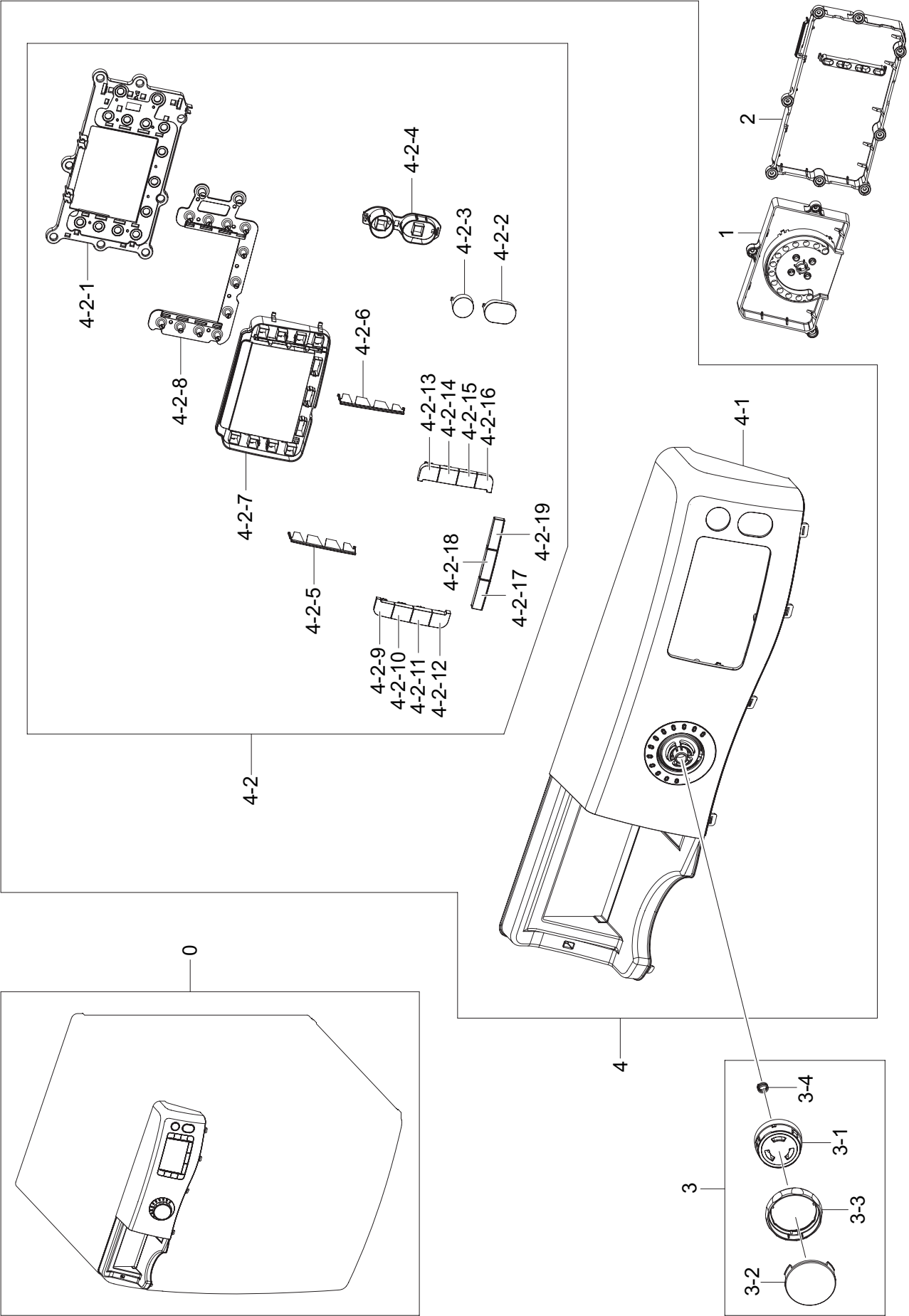
MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		ASSY-FRAME FRONT & DOOR		1		
1	DC97-16145A	ASSY DOOR	PURPLE,WF448AAP,-,-,OD541.7,-	1	PC	SA
1-1	6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	1	PC	SA
1-2	6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	15	PC	SNA
1-3	6002-001204	SCREW-TAPPING	TH,+,1,M4,L16,PASS,STS430,-	8	PC	SA
1-4	6002-001279	SCREW-TAPPING	PWH,+,1,M4,L12,PASS,STS304,-	2	PC	SA
1-5	DC61-00891A	GUIDE-HINGE	HAUZEN(DOM),POM,-,-,-,WHT,HINGE	4	PC	SA
1-6	DC61-02635A	SUPPORT-HINGE	FRONTIER-PJT,SBHG1-A(SGCC),T1.4,-,-,-,HOLDER-GLASS(GI)	1	PC	SA
1-7	DC64-02640A	HINGE-DOOR	PURPLE-PJT,ALDC8,T3.0,W39.5,L212.9,-,-,-	1	PC	SA
1-8	DC61-02634A	HOLDER-GLASS	PURPLE-PJT,PP,T2.8,W542,L564,GRY,TB53	1	PC	SA
1-9	DC64-00504A	DOOR-GLASS	TS85-PJT,SODALIME,-,-,-,-,N.TEMP	1	PC	SC
1-10	DC66-00375A	LEVER-DOOR	10KG DRUM,ZNDC,2.5MM,-,-,-,NI+CR COATING,-	1	PC	SC
1-11	DC97-15667B	ASSY COVER DOOR	PURPLE,WF448,STS430/DOOR SAFETY Transparen	1	PC	SA
1-11-1	DC63-01160A	COVER-DOOR	PURPLE-PJT,ABS(GP-35),T2.5,W541,L541,-,-,-,-	1	PC	SA
1-11-2	DC64-02144A	DOOR-SAFETY	ACE-PJT,PET,T2.5,-,W514,L514,-,-	1	PC	SA
2	DC97-16019A	ASSY FRAME FRONT	WF448AAP,PURPLE PJT,-,-,-,INOX(P/SILVER)	1	PC	SA
2-1	6002-000239	SCREW-TAPPING	TH,+,2,S,M4,L8,ZPC(WHT),SWRCH18A,-	8	PC	SA
2-1	6002-000239	SCREW-TAPPING	TH,+,2,S,M4,L8,ZPC(WHT),SWRCH18A,-	4	PC	SA
2-2	DC61-01081A	HOLDER-HOSE	Q1636,NYLON66,T1.5,-,-,NTR,TS-2 PJT	2	PC	SA
2-3	DC61-02615A	BRACKET-HINGE	PURPLE-PJT,SGCC(GI),T2.0,W39.5,L213,-,-	1	PC	SA
2-4	DC61-02612A	FRAME-FRONT	WF448AAC/XAA,VCM(GI),-,-,-,INOX,T0.8,W684,L824.4,PURPLE-PJT	1	PC	SNA
2-5	DC61-02621A	GUIDE-COVER FILTER	WF448AAP,PP(FC2305),T2.5,W151,L120,GRY,PURPLE-PJT(INOX)	1	PC	SNA
2-6	DC63-00959A	COVER-FRONT	WF448AAP,PP,-,W8.5,L25.5,-,-,-,INOX,PURPLE INOX	2	PC	SA
2-7	DC63-00960A	COVER-SWITCH(O)	WF218,POM,T3,-,-,-,-,NATURAL,DOOR LOSCK SWITCH	1	PC	SA
2-8	DC63-10001D	SPONGE-EPDM	EPDM,T1.0,W15,L400,GRY	1	PC	SNA
2-9	DC63-10001W	SPONGE-EPDM	EPDM,T1,W15,L150,GRY	1	PC	SNA
2-10	DC64-02162A	DECORATION-FRONT	WF438AAC/XAA,STS430,T0.8,W684,L69,-,-,-,PURPLE-PJT	1	PC	SA
2-11	DC72-00034T	SPONGE-EPDM	WF448AAP/XXA,EPDM,-,T1,W15,L700,GRY,PURPLE-PJT	2	PC	SNA
2-12	DC72-00069A	SPONGE-EPDM	WF448AAP,EPDM,-,T1.0,W30,L200,GRY,PURPLE INOX	2	PC	SA
3	DC63-01156A	COVER-DOOR SWITCH	FRONTIER,PP(V0),-,-,-,-,NTL,-	1	PC	SA
4	DC64-00519B	DOOR-LOCK S/W	GW-PJT,PP-GF,-,-,-,-,BLK,120V/50~60Hz/16A/857	1	PC	SA

MEMO

5-5. ASS'Y PANEL CONTROL (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16154A	ASSY PANEL CONTROL	PURPLE-PJT,WF448AAP,-,P/SILVER,-,-	1	PC	SNA
1	DC92-00320A	ASSY PCB SUB (ENCODER)	PURPLE LCD WASH SUB,-,-,110V/60HZ,-,-	1	PC	SA
2	DC92-00319A	ASSY PCB SUB (LCD)	Purple Wash Steam Su,-,-,110V/60HZ,-,GRAPHIC	1	PC	SA
3	DC97-16033A	ASSY KNOB ENCODER	WF438AAW,-,-,-,-	1	PC	SA
3-1	DC64-01642A	KNOB-ENCODER	SEW-HVR149AD,ABS,T2.0,-,-,N,SILVER,-,NO-SPRAY	1	PC	SNA
3-2	DC64-02198A	DECORATION-ENCODER(I)	SEW-HVR149AD,ABS,T2.5,N,NTR,CR-COATING	1	PC	SNA
3-3	DC64-02199A	DECORATION-ENCODER	SEW-HVR149AD,AL,T3.5,-,-,N,-,VENUS-LCD	1	PC	SNA
3-4	DC61-02771A	SPRING TENSION ETC		1	PC	
4	DC97-16107A	ASSY S.PANEL CONTROL	PURPLE,WF448AAP,-,P/SILVER,-,-	1	PC	SA
4-1	DC97-15306B	ASSY S.PANEL CONTROL-SVC		1	PC	SA
4-2	DC97-16029A	ASSY BUTTON		1	PC	SA
4-2-1	DC63-01159A	COVER-BUTTON		1	PC	SNA
4-2-2	DC64-02185A	BUTTON-PUSH(S)		1	PC	SNA
4-2-3	DC64-02186A	BUTTON-PUSH(P)		1	PC	SNA
4-2-4	DC64-02176A	DECORATION-BUTTON(P)		1	PC	SNA
4-2-5	DC64-02181A	DECORATION-LED(L)		1	PC	SNA
4-2-6	DC64-02182A	DECORATION-LED(R)		1	PC	SNA
4-2-7	DC64-02177A	WINDOW-PANEL		1	PC	SNA
4-2-8	DC64-02200A	BUTTON-RUBBER		1	PC	SNA
4-2-9	DC64-02187A	BUTTON-PUSH(O)1		1	PC	SNA
4-2-10	DC64-02188A	BUTTON-PUSH(O)2		1	PC	SNA
4-2-11	DC64-02189A	BUTTON-PUSH(O)3		1	PC	SNA
4-2-12	DC64-02190A	BUTTON-PUSH(O)4		1	PC	SNA
4-2-13	DC64-02191A	BUTTON-PUSH(O)5		1	PC	SNA
4-2-14	DC64-02192A	BUTTON-PUSH(O)6		1	PC	SNA
4-2-15	DC64-02193A	BUTTON-PUSH(O)7		1	PC	SNA
4-2-16	DC64-02194A	BUTTON-PUSH(O)8		1	PC	SNA
4-2-17	DC64-02195A	BUTTON-PUSH(F)1		1	PC	SNA
4-2-18	DC64-02196A	BUTTON-PUSH(F)2		1	PC	SNA
4-2-19	D6C4-02197A	BUTTON-PUSH(F)3		1	PC	SNA

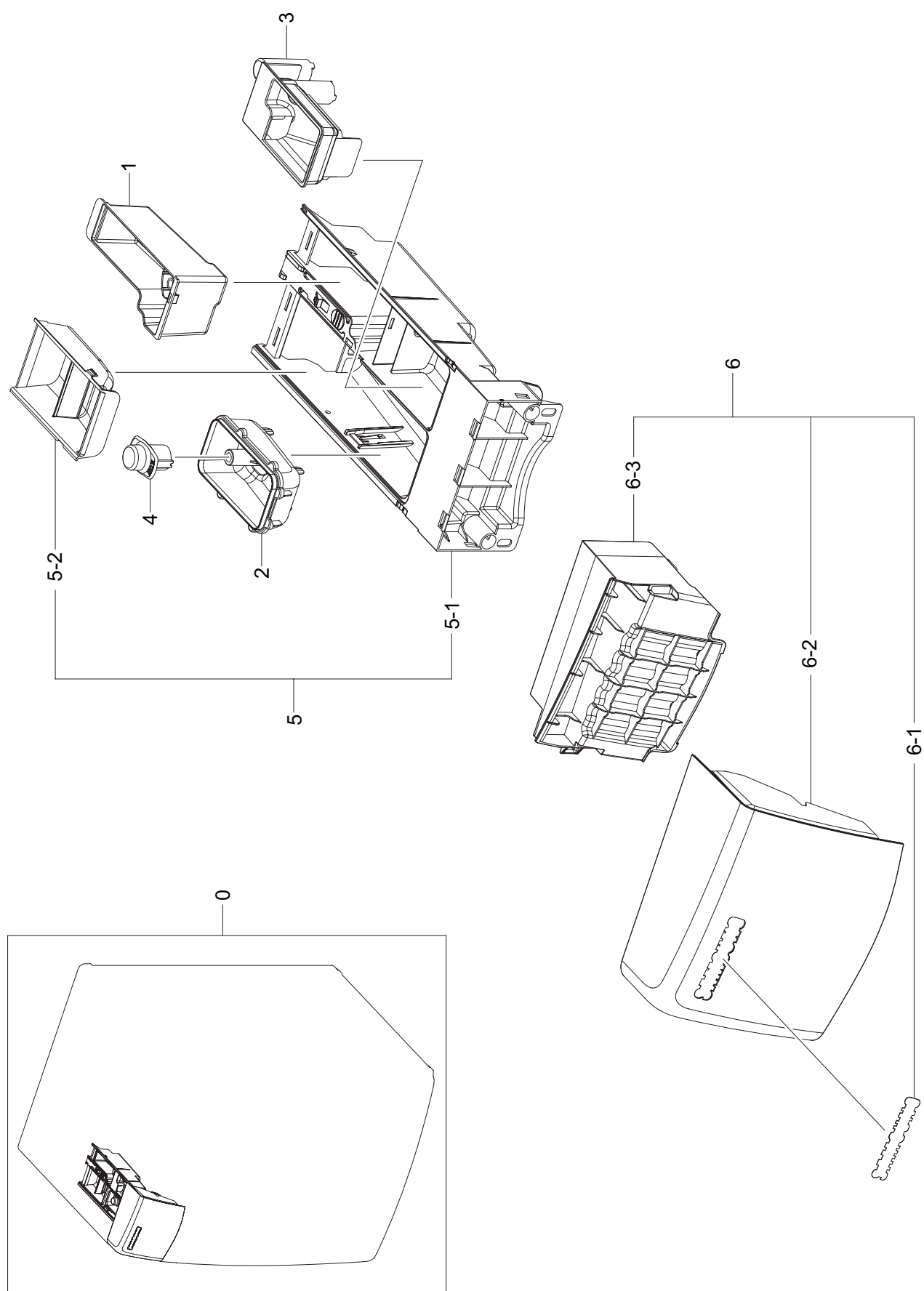
MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16154A	ASSY PANEL CONTROL	PURPLE-PJT,WF448AAP,-,P/SILVER,-,-	1	PC	SNA
1	DC92-00320A	ASSY PCB SUB (ENCODER)	PURPLE LCD WASH SUB,-,-,110V/60HZ,-,-	1	PC	SA
2	DC92-00319A	ASSY PCB SUB (LCD)	Purple Wash Steam Su,-,-,110V/60HZ,-,GRAPHIC	1	PC	SA
3	DC97-16033A	ASSY KNOB ENCODER	WF438AAW,-,-,-,-	1	PC	SA
3-1	DC64-01642A	KNOB-ENCODER	SEW-HVR149AD,ABS,T2.0,-,-,N,SILVER,-,NO-SPRAY	1	PC	SNA
3-2	DC64-02198A	DECORATION-ENCODER(I)	SEW-HVR149AD,ABS,T2.5,N,NTR,CR-COATING	1	PC	SNA
3-3	DC64-02199A	DECORATION-ENCODER	SEW-HVR149AD,AL,T3.5,-,-,N,-,VENUS-LCD	1	PC	SNA
3-4	DC61-02771A	SPRING TENSION ETC		1	PC	
4	DC97-16107A	ASSY S.PANEL CONTROL	PURPLE,WF448AAP,-,P/SILVER,-,-	1	PC	SA
4-1	DC97-15306B	ASSY S.PANEL CONTROL-SVC		1	PC	SA
4-2	DC97-16029A	ASSY BUTTON		1	PC	SA
4-2-1	DC63-01159A	COVER-BUTTON		1	PC	SNA
4-2-2	DC64-02185A	BUTTON-PUSH(S)		1	PC	SNA
4-2-3	DC64-02186A	BUTTON-PUSH(P)		1	PC	SNA
4-2-4	DC64-02176A	DECORATION-BUTTON(P)		1	PC	SNA
4-2-5	DC64-02181A	DECORATION-LED(L)		1	PC	SNA
4-2-6	DC64-02182A	DECORATION-LED(R)		1	PC	SNA
4-2-7	DC64-02177A	WINDOW-PANEL		1	PC	SNA
4-2-8	DC64-02200A	BUTTON-RUBBER		1	PC	SNA
4-2-9	DC64-02187A	BUTTON-PUSH(O)1		1	PC	SNA
4-2-10	DC64-02188A	BUTTON-PUSH(O)2		1	PC	SNA
4-2-11	DC64-02189A	BUTTON-PUSH(O)3		1	PC	SNA
4-2-12	DC64-02190A	BUTTON-PUSH(O)4		1	PC	SNA
4-2-13	DC64-02191A	BUTTON-PUSH(O)5		1	PC	SNA
4-2-14	DC64-02192A	BUTTON-PUSH(O)6		1	PC	SNA
4-2-15	DC64-02193A	BUTTON-PUSH(O)7		1	PC	SNA
4-2-16	DC64-02194A	BUTTON-PUSH(O)8		1	PC	SNA
4-2-17	DC64-02195A	BUTTON-PUSH(F)1		1	PC	SNA
4-2-18	DC64-02196A	BUTTON-PUSH(F)2		1	PC	SNA
4-2-19	D6C4-02197A	BUTTON-PUSH(F)3		1	PC	SNA

MEMO

5-6. ASS'Y DRAWER (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

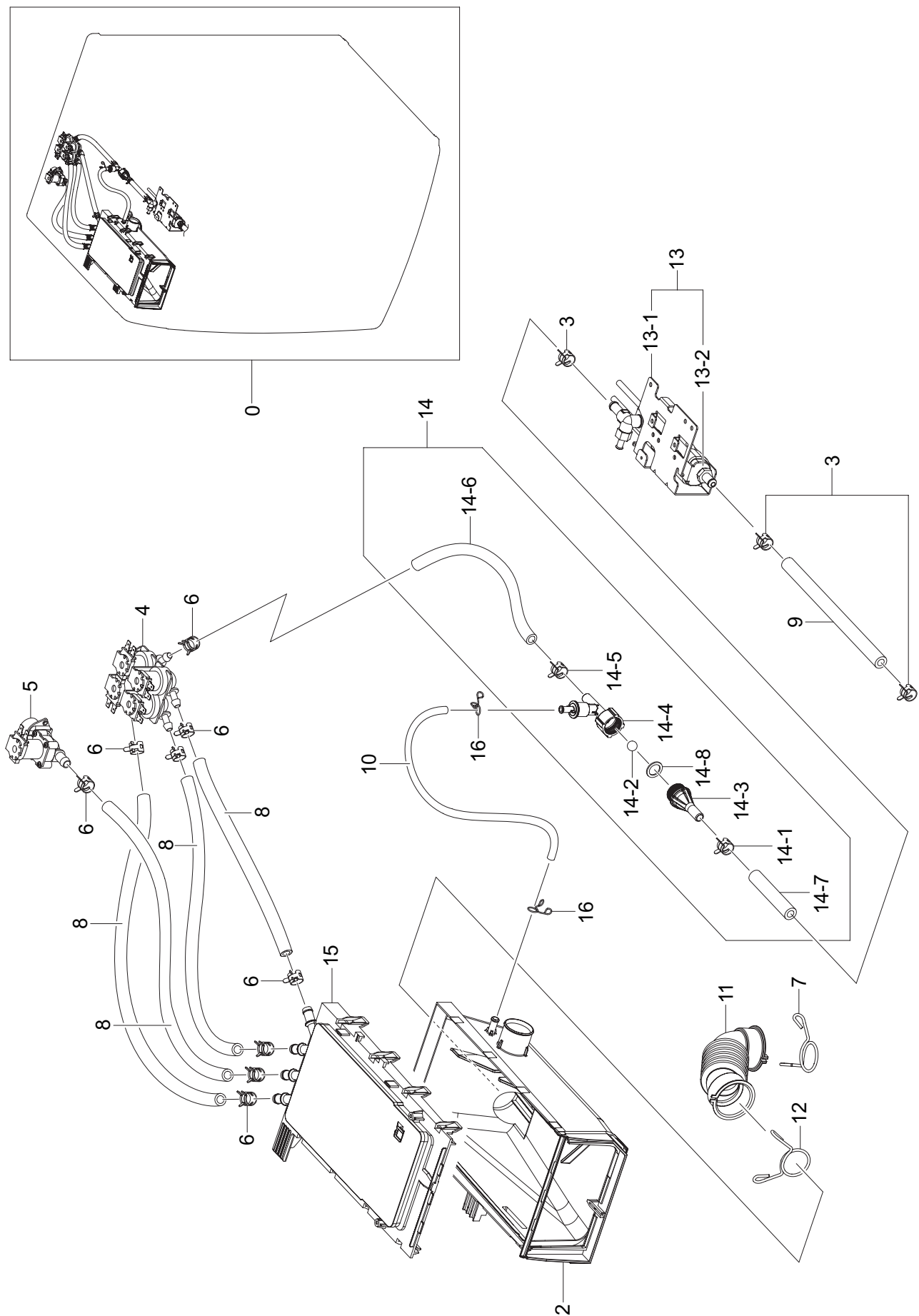
Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16144A	ASSY DRAWER	PURPLE,WF448AAP,P/SILVER(INOX)	1	PC	SA
1	DC61-01995A	CASE-BLEACH	WF448AAW,PP,-,-,-,SOAF-BLUE,PURPLE-PJT	1	PC	SNA
2	DC61-02427A	GUIDE-LIQUID(M)	WF419HAW,PP,BLUE,ACE-PJT	1	PC	SA
3	DC67-00305A	CAP-RINSE	WF448AAW,PP,-,-,-,SOAF-BLUE,PURPLE-PJT	1	PC	SA
4	DC67-00420A	CAP-DRAWER	WF419HAW,PP,T2.0,W43,L38,WHT,ACE-PJT	1	PC	SA
5	DC97-14481E	ASSY S.DRAWER	PURPLE,WF448,TEFRON COATING	1	PC	SA
5-1	DC61-01992C	BODY-DRAWER	592-495090,PP,T2.0,L327.5,W149.4,WHT,ACE PJT,COATING	1	PC	SNA
5-2	DC61-02445A	CASE-PRE WASH	ACE-PJT,PP,T1.8,WHT,TB53	1	PC	SA
6	DC97-16143A	ASSY PANEL DRAWER	PURPLE,WF448AAP,-,P/SILVER,-,-	1	PC	SA
6-1	DC64-01387A	MASCOT	FRONTIER II,NICKEL,-,-,-,-,-	1	PC	SNA
6-2	DC64-02184A	PANEL-DRAWER	WF448AAP,ABS,-,-,-,-,P-SILVER,SPRAY	1	PC	SNA
6-3	DC64-02183A	DECORATION-PANEL DRAWER	WF448AAP,ABS,-,-,-,-,P-SILVER,-	1	PC	SNA

MODEL CODE: WF520ABW/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16144A	ASSY DRAWER	PURPLE,WF448AAP,P/SILVER(INOX)	1	PC	SA
1	DC61-01995A	CASE-BLEACH	WF448AAW,PP,-,-,-,SOAF-BLUE,PURPLE-PJT	1	PC	SNA
2	DC61-02427A	GUIDE-LIQUID(M)	WF419HAW,PP,BLUE,ACE-PJT	1	PC	SA
3	DC67-00305A	CAP-RINSE	WF448AAW,PP,-,-,-,SOAF-BLUE,PURPLE-PJT	1	PC	SA
4	DC67-00420A	CAP-DRAWER	WF419HAW,PP,T2.0,W43,L38,WHT,ACE-PJT	1	PC	SA
5	DC97-14481E	ASSY S.DRAWER	PURPLE,WF448,TEFRON COATING	1	PC	SA
5-1	DC61-01992C	BODY-DRAWER	592-495090,PP,T2.0,L327.5,W149.4,WHT,ACE PJT,COATING	1	PC	SNA
5-2	DC61-02445A	CASE-PRE WASH	ACE-PJT,PP,T1.8,WHT,TB53	1	PC	SA
6	DC97-16143A	ASSY PANEL DRAWER	PURPLE,WF448AAP,-,P/SILVER,-,-	1	PC	SA
6-1	DC64-01387A	MASCOT	FRONTIER II,NICKEL,-,-,-,-,-	1	PC	SNA
6-2	DC64-02184A	PANEL-DRAWER	WF448AAP,ABS,-,-,-,-,P-SILVER,SPRAY	1	PC	SNA
6-3	DC64-02183A	DECORATION-PANEL DRAWER	WF448AAP,ABS,-,-,-,-,P-SILVER,-	1	PC	SNA

MEMO

5-7. ASS'Y HOUSING DRAWER (WF520ABP/XAA, WF520ABW/XAA)



MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16142A	ASSY HOUSING DRAWER	WF438AAC,MAIN/PRE/HOT/BLEACH/STEAM/4WAY,-,-,-,-	1	PC	SA
1	6002-000234	SCREW-TAPPING	TH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	4	PC	SNA
2	DC61-02636A	HOUSING-DRAWER(L)	WF448AAW,PP(FH44N),T1.8,-,-,WHT,PURPLE-PJT	1	PC	SNA
3	DC61-60067C	CLAMPER HOSE	-,SK5,-,ID15.5,WHT,-	3	PC	SNA
4	DC62-00214L	VALVE-WATER	PURPLE-PJT,P.P,1~8,BLU,4WAY(PER/BLEACH/MAIN/STEAM)	1	PC	SA
5	DC62-30314K	VALVE-WATER	V-0117,NYLON #6,83x45,1~8(10 L/min),RED,1WAY	1	PC	SA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	1	PC	SNA
7	DC65-00020A	CLAMPER HOSE-JOINT	WF448AAW,HSWR,-,ID69.1X28.8,-,PURPLE-PJT	1	PC	SNA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.36		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.27		SA
9	DC67-00181F	HOSE-INLET	PURPLE,SILICON,ID9.3,OD16.5,-,L255,BLK,-	1	PC	SA
10	DC67-00244F	HOSE-DRAIN	WF448AAF/XAA,EPDM,ID6,OD11,T2.5,L180,BLK	1	PC	SA
11	DC67-00467A	HOSE-DRAWER TUB	WF448AAW,EPDM,ID 49,OD 64,T2.5,-,BLK,PURPLE-PJT	1	PC	SA
12	DC72-00001F	BAND-RING	DRUM-MODEL,HSWR,-,-,-,YEL,ID65.5	2	PC	SA
13	DC97-09101H	ASSY STEAM KIT	PURPLE,AMERICA WASHER,120V,900W	1	PC	SNA
13-1	DC61-02010A	BRACKET-STEAMER	WF448AAW,GI,T1.4,-,-,-,PURPLE-PJT	1	PC	SNA
13-2	DC97-08734F	ASSY STEAMER	PURPLE,ACE,FRONTIER2,AMERICA WASHER(NO BYPASS),120V,900W	1	PC	SNA
14	DC97-12578E	ASSY HOSE	VE-PJT,WF448AAF/XAA,BY-PASS STEAMER,OD16,BLK	1	PC	SA
14-1	DC61-60067C	CLAMPER HOSE	-,SK5,-,ID15.5,WHT,-	1	PC	SNA
14-2	DC62-00167A	NOZZLE-BALL	Q1636GW,SILICON,-,-,-,-,TS-2 PJT	1	PC	SNA
14-3	DC62-00182A	NOZZLE-CONNECTOR(U)	Q1636,PC,D24,-,-,-,TRP,TS-2 PJT	1	PC	SA
14-4	DC62-00279A	NOZZLE-CONNECTOR(L)	ACE,PURPLE,POM,27.5,2.5Kg/cm^2	1	PC	SA
14-5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	1		SNA
14-6	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.24		SA
14-7	DC67-00181A	HOSE-INLET	PURPLE-PJT,SILICON,ID 9.3,OD 61.5,-,L60,BLK,-	1	PC	SA
14-8	DC69-00640A	PACKING-FILTER	DRUM W/M,SILICON,T2.5,WHT,CLEAN-FILTER(OD23.8)	1	PC	SA
15	DC97-16141A	ASSY S.HOUSING DRAWER	WF438AAC,PURPLE-PJT,-,-,-,-	1	PC	SA
16	DD65-00001F	CLAMPER HOSE	SDW-H120,STEEL,-,D10.5/T1.2,-,-	2	PC	SNA

MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16142A	ASSY HOUSING DRAWER	WF438AAC,MAIN/PRE/HOT/BLEACH/STEAM/4WAY,-,-,-,-	1	PC	SA
1	6002-000234	SCREW-TAPPING	TH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	4	PC	SNA
2	DC61-02636A	HOUSING-DRAWER(L)	WF448AAW,PP(FH44N),T1.8,-,-,WHT,PURPLE-PJT	1	PC	SNA
3	DC61-60067C	CLAMPER HOSE	-,SK5,-,ID15.5,WHT,-	3	PC	SNA
4	DC62-00214L	VALVE-WATER	PURPLE-PJT,P.P,1~8,BLU,4WAY(PER/ BLEACH/MAIN/STEAM)	1	PC	SA
5	DC62-30314K	VALVE-WATER	V-0117,NYLON #6,83x45,1~8(10 L/min),RED,1WAY	1	PC	SA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	1	PC	SNA
7	DC65-00020A	CLAMPER HOSE-JOINT	WF448AAW,HSWR,-,ID69.1X28.8,-,PURPLE-PJT	1	PC	SNA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.36		SA
8	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.27		SA
9	DC67-00181F	HOSE-INLET	PURPLE,SILICON,ID9.3,OD16.5,-,L255,BLK,-	1	PC	SA
10	DC67-00244F	HOSE-DRAIN	WF448AAF/XAA,EPDM,ID6,OD11,T2.5,L180,BLK	1	PC	SA
11	DC67-00467A	HOSE-DRAWER TUB	WF448AAW,EPDM,ID 49,OD 64,T2.5,-,BLK,PURPLE-PJT	1	PC	SA
12	DC72-00001F	BAND-RING	DRUM-MODEL,HSWR,-,-,-,YEL,ID65.5	2	PC	SA
13	DC97-09101H	ASSY STEAM KIT	PURPLE,AMERICA WASHER,120V,900W	1	PC	SNA
13-1	DC61-02010A	BRACKET-STEAMER	WF448AAW,GI,T1.4,-,-,-,PURPLE-PJT	1	PC	SNA
13-2	DC97-08734F	ASSY STEAMER	PURPLE,ACE,FRONTIER2,AMERICA WASHER(NO BYPASS),120V,900W	1	PC	SNA
14	DC97-12578E	ASSY HOSE	VE-PJT,WF448AAF/XAA,BY-PASS STEAMER,OD16,BLK	1	PC	SA
14-1	DC61-60067C	CLAMPER HOSE	-,SK5,-,ID15.5,WHT,-	1	PC	SNA
14-2	DC62-00167A	NOZZLE-BALL	Q1636GW,SILICON,-,-,-,-,TS-2 PJT	1	PC	SNA
14-3	DC62-00182A	NOZZLE-CONNECTOR(U)	Q1636,PC,D24,-,-,-,TRP,TS-2 PJT	1	PC	SA
14-4	DC62-00279A	NOZZLE-CONNECTOR(L)	ACE,PURPLE,POM,27.5,2.5Kg/cm^2	1	PC	SA
14-5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	1		SNA
14-6	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.24		SA
14-7	DC67-00181A	HOSE-INLET	PURPLE-PJT,SILICON,ID 9.3,OD 61.5,-,L60,BLK,-	1	PC	SA
14-8	DC69-00640A	PACKING-FILTER	DRUM W/M,SILICON,T2.5,WHT,CLEAN-FILTER(OD23.8)	1	PC	SA
15	DC97-16141A	ASSY S.HOUSING DRAWER	WF438AAC,PURPLE-PJT,-,-,-,-	1	PC	SA
16	DD65-00001F	CLAMPER HOSE	SDW-H120,STEEL,-,D10.5/T1.2,-,-	2	PC	SNA

MEMO

5-8. SMALL PARTS (WF520ABP/XAA, WF520ABW/XAA)

							
1	2	3	4	5	6	7	8

MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	InstPoint	QTY	Un	SA/SNA
1	DC61-01736B	HOLDER-WIRE	WF337AAW,NYLON66,O D31,H15,L128,NTR,FRO NTIER2	FRAME(HOSE-DRAIN)	1	PC	SNA
2	DC61-01736B	HOLDER-WIRE	WF337AAW,NYLON66,O D31,H15,L128,NTR,FRO NTIER2	PLATE-BOTTOM	2	PC	SNA
2	DC61-00553B	HOLDER-WIRE	-,NYLON66,-,-,-,NTR,DAWS-3NE	GUIDE-WIRE	2	PC	SNA
2	DC61-00553B	HOLDER-WIRE SADDLE	-,NYLON66,-,-,-,NTR,DAWS-3NE	FRAME-PLATE(U)	2	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	FRAME(BACK)	1	PC	SNA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	PLATE-BOTTOM	2	PC	SNA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	COVER-PCB(M)	2	PC	SNA
4	DC61-00133A	CLAMPER HOSE-FIX	P1291,PP,ID24.5,OD29.5, HOSE+PLUG,BJ-730	FRAME	1	PC	SNA
5	6501-000121	CABLE TIE	DA-368,T1.9,W7.5,L368, NTR,NYLON6/6	ASSY ACCESSORY	1	PC	SNA
6	DC61-60074A	HOLDER-WIRE	-,NYLON#66(DAWS-6NB),-,-,-,NTR,-	FRAME-PLATE(U)	2	PC	SA
7	DC61-40083A	HOLDER-WIRE	DAWH-3ND,NYLON,NTR(PI25)/ NYLON66	PLATE-BOTTOM	1	PC	SNA
7	DC61-40083A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	GUIDE-WIRE	1	PC	SNA
8	DC61-00999A	HOLDER-WIRE	TS85-PJT,NYLON66,-,-,-,NTR,DAWH-45N(PI11.5)	TUB-BACK	1	PC	SNA

MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	InstPoint	QTY	Un	SA/SNA
1	DC61-01736B	HOLDER-WIRE	WF337AAW,NYLON66,O D31,H15,L128,NTR,FRO NTIER2	FRAME(HOSE-DRAIN)	1	PC	SNA
2	DC61-01736B	HOLDER-WIRE	WF337AAW,NYLON66,O D31,H15,L128,NTR,FRO NTIER2	PLATE-BOTTOM	2	PC	SNA
2	DC61-00553B	HOLDER-WIRE	-,NYLON66,-,-,-, NTR,DAWS-3NE	GUIDE-WIRE	2	PC	SNA
2	DC61-00553B	HOLDER-WIRE SADDLE	-,NYLON66,-,-,-, NTR,DAWS-3NE	FRAME-PLATE(U)	2	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	FRAME(BACK)	1	PC	SNA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	PLATE-BOTTOM	2	PC	SNA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	COVER-PCB(M)	2	PC	SNA
4	DC61-00133A	CLAMPER HOSE-FIX	P1291,PP,ID24.5,OD29.5, HOSE+PLUG,BJ-730	FRAME	1	PC	SNA
5	6501-000121	CABLE TIE	DA-368,T1.9,W7.5,L368, NTR,NYLON6/6	ASSY ACCESSORY	1	PC	SNA
6	DC61-60074A	HOLDER-WIRE	-,NYLON#66(DAWS-6NB),-,-,-,NTR,-	FRAME-PLATE(U)	2	PC	SA
7	DC61-40083A	HOLDER-WIRE	DAWH-3ND,NYLON,NTR(PI25)/ NYLON66	PLATE-BOTTOM	1	PC	SNA
7	DC61-40083A	HOLDER-WIRE	DAWH-2NC,NYLON,NTR(PI18.5)	GUIDE-WIRE	1	PC	SNA
8	DC61-00999A	HOLDER-WIRE	TS85-PJT,NYLON66,-,-,-, NTR,DAWH-45N(PI11.5)	TUB-BACK	1	PC	SNA

5-9. PARTS LIST-OTHERS PARTS (WF520ABP/XAA, WF520ABW/XAA)

MODEL CODE: WF520ABP/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	InstPoint	QTY	Un	SA/ SNA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	F/PLATE(U)+H/ DRAWER	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	A.PUMP-DRAIN	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	CLAMPER-HOSE	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	FRAME+PBA(M)	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	T/FRONT+H/JOINT	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	A.BRK-B/H+TUB-BACK	3	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	TUB- BACK+THERMISTOR	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	H/BEARING(EARTH)	1	PC	SA
6002-000239	SCREW-TAPPING	TH,+,- ,2S,M4,L8,ZPC(WHT),SWRCH18A,-	FRAME+A.G/WIRE	1	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DR-BACK+A. BALANCER	6	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DR-FRONT+A. BALANCER	6	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DRUM-LIFTER	3	PC	SA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH 10A,P1.8,PLANGE	TUB-FRONT+TUB- BACK	16	PC	SA
6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT),SWRC H18A,-	BRK-SPRING+P/ CORD(E)	1	PC	SA
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	COVER-TOP+FRAME	2	PC	SA
6009-001522	SCREW-HEX	HEX,+,- ,M5,L16,PASS,STS430,FP,NYLOCK	A.DOOR+A.F/FRONT	2	PC	SA
6011-001565	BOLT-HEX	M6,L35.1,ZPC(YEL),SWCH25K,TAPPI NG	PLATE-BOTTOM	2	PC	SA
6011-001627	BOLT-ETC	M6,L56,MFZn,SCM435,P1.0/HEX/WSP	MOTOR+B/HOUSING	6	PC	SA
DC68-02580B	MANUAL-GUIDE	WF218,-,ENG/SPE/FRE,- ,100MOJO,W420,L295,-,-,-	ASSY COVER TOP	1	PC	SA
DC72-00012L	SPONGE-SHUTTER	PURPLE-PJT,PE-FOAM,- ,T33,W30,L185,BLK,WF448(ALL)	ASSY-GUIDE WIRE	1	PC	SA
DC72-00012P	SPONGE-SHUTTER	WF448AAP,PU-FOAM,- ,T3,W80,L220,BLK,PURPLE	CONTROL-PANEL	1	PC	SA
DC97-14006A	ASSY SCREW	WF203,-,SCREW-TAPPING,-,M4/L16,-	D/VENT+TUB-BACK	3	PC	SA
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(C)+FRAME	2	PC	SC
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(H)+FRAME	2	PC	SC
0203-005193	TAPE-POLY		ASSY KNOB ENCODER	0.06		
DC60-20057A	SCREW-TAPPING		HOSE-CONNECTOR	2	PC	
DC69-01178B	PACKING-ANGLE		ASSY CUSHION BOTTOM	4	PC	
DC72-00011E	SPONGE-EPDM		HOSE-AIR PUMP	2	PC	
DC72-00034R	SPONGE-EPDM		HOSE-AIR PUMP	2	PC	

MODEL CODE: WF520ABW/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	InstPoint	QTY	Un	SA/ SNA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	F/PLATE(U)+H/ DRAWER	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	A.PUMP-DRAIN	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	CLAMPER-HOSE	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	FRAME+PBA(M)	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	T/FRONT+H/JOINT	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	A.BRK-B/H+TUB-BACK	3	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	TUB- BACK+THERMISTOR	2	PC	SA
6002-000213	SCREW-TAPPING	TH,+,- ,1,M4,L12,ZPC(WHT),SWRCH18A,-	H/BEARING(EARTH)	1	PC	SA
6002-000239	SCREW-TAPPING	TH,+,- ,2S,M4,L8,ZPC(WHT),SWRCH18A,-	FRAME+A.G/WIRE	1	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DR-BACK+A. BALANCER	6	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DR-FRONT+A. BALANCER	6	PC	SA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	DRUM-LIFTER	3	PC	SA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH 10A,P1.8,PLANGE	TUB-FRONT+TUB- BACK	16	PC	SA
6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT),SWRC H18A,-	BRK-SPRING+P/ CORD(E)	1	PC	SA
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	COVER-TOP+FRAME	2	PC	SA
6009-001522	SCREW-HEX	HEX,+,- ,M5,L16,PASS,STS430,FP,NYLOCK	A.DOOR+A.F/FRONT	2	PC	SA
6011-001565	BOLT-HEX	M6,L35.1,ZPC(YEL),SWCH25K,TAPPI NG	PLATE-BOTTOM	2	PC	SA
6011-001627	BOLT-ETC	M6,L56,MFZn,SCM435,P1.0/HEX/WSP	MOTOR+B/HOUSING	6	PC	SA
DC68-02580B	MANUAL-GUIDE	WF218,-,ENG/SPE/FRE,- ,100MOJO,W420,L295,-,-,-	ASSY COVER TOP	1	PC	SA
DC72-00012L	SPONGE-SHUTTER	PURPLE-PJT,PE-FOAM,- ,T33,W30,L185,BLK,WF448(ALL)	ASSY-GUIDE WIRE	1	PC	SA
DC72-00012P	SPONGE-SHUTTER	WF448AAP,PU-FOAM,- ,T3,W80,L220,BLK,PURPLE	CONTROL-PANEL	1	PC	SA
DC97-14006A	ASSY SCREW	WF203,-,SCREW-TAPPING,-,M4/L16,-	D/VENT+TUB-BACK	3	PC	SA
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(C)+FRAME	2	PC	SC
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(H)+FRAME	2	PC	SC
0203-005193	TAPE-POLY		ASSY KNOB ENCODER	0.06		
DC60-20057A	SCREW-TAPPING		HOSE-CONNECTOR	2	PC	
DC69-01178B	PACKING-ANGLE		ASSY CUSHION BOTTOM	4	PC	
DC72-00011E	SPONGE-EPDM		HOSE-AIR PUMP	2	PC	
DC72-00034R	SPONGE-EPDM		HOSE-AIR PUMP	2	PC	

5-10. PARTS LIST-SCREW PARTS (WF520ABP/XAA, WF520ABW/XAA)

MODEL CODE: WF520ABP/XAA

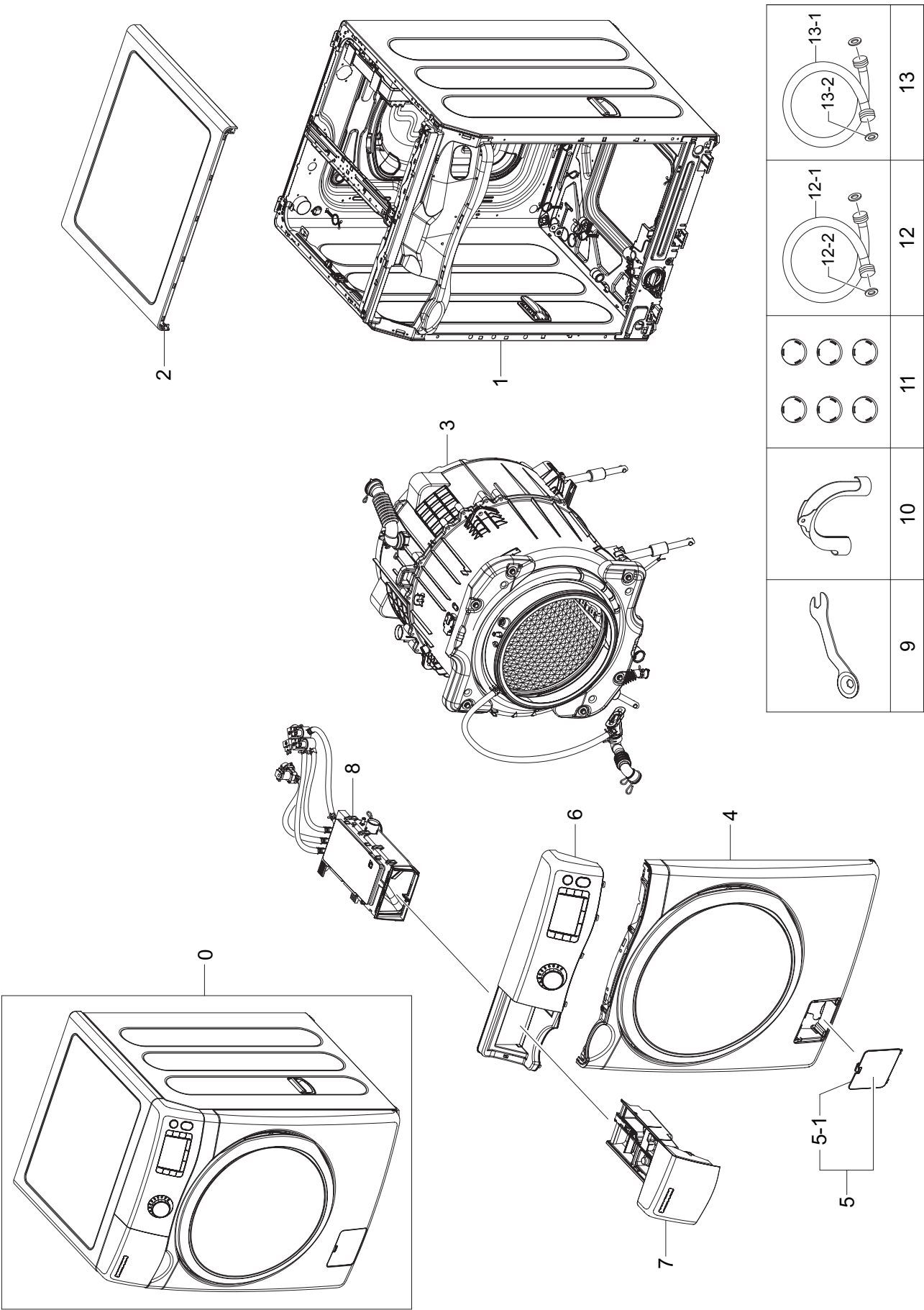
Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	QTY	Un	SA/SNA
6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	18	PC	SA
6002-000231	SCREW-TAPPING	TH,+,NO,2S,M4,L12,ZPC(WHT),SWRCH18A	4	PC	SNA
6002-000234	SCREW-TAPPING	TH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	4	PC	SNA
6002-000239	SCREW-TAPPING	TH,+,-,2S,M4,L8,ZPC(WHT),SWRCH18A,-	13	PC	SA
6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	18	PC	SNA
6002-000525	SCREW-TAPPING	FH,+,-,1,M4,L12,PASS,STS304,-	1	PC	SNA
6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	15	PC	SA
6002-001204	SCREW-TAPPING	TH,+,-,1,M4,L16,PASS,STS430,-	8	PC	SA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH10A,P1.8,P LANGE	16	PC	SA
6002-001279	SCREW-TAPPING	PWH,+,-,1,M4,L12,PASS,STS304,-	2	PC	SA
6002-001306	SCREW-TAPPING	TH,+,-,1,M4,L14,ZPC(WHT),SWRCH18A,-	15	PC	SNA
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	4	PC	SC
6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT),SWRCH18A,-	1	PC	SA
6006-001174	SCREW-TAPPING	TH,+,WE,2S,M4,L12,ZPC(WHT),SWRCH18A	17	PC	SNA
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	2	PC	SA
6009-001522	SCREW-HEX	HEX,+,-,M5,L16,PASS,STS430,FP,NYLOCK	2	PC	SA
DC60-20057A	SCREW-TAPPING		2	PC	
DC97-14006A	ASSY SCREW	WF203,-,SCREW-TAPPING,-,M4/L16,-	3	PC	SA

MODEL CODE: WF520ABW/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	QTY	Un	SA/SNA
6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	1	PC	SA
6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	18	PC	SA
6002-000231	SCREW-TAPPING	TH,+,NO,2S,M4,L12,ZPC(WHT),SWRCH18A	4	PC	SNA
6002-000234	SCREW-TAPPING	TH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	4	PC	SNA
6002-000239	SCREW-TAPPING	TH,+,-,2S,M4,L8,ZPC(WHT),SWRCH18A,-	13	PC	SA
6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	18	PC	SNA
6002-000525	SCREW-TAPPING	FH,+,-,1,M4,L12,PASS,STS304,-	1	PC	SNA
6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	15	PC	SA
6002-001204	SCREW-TAPPING	TH,+,-,1,M4,L16,PASS,STS430,-	8	PC	SA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH10A,P1.8,P LANGE	16	PC	SA
6002-001279	SCREW-TAPPING	PWH,+,-,1,M4,L12,PASS,STS304,-	2	PC	SA
6002-001306	SCREW-TAPPING	TH,+,-,1,M4,L14,ZPC(WHT),SWRCH18A,-	15	PC	SNA
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	4	PC	SC
6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT),SWRCH18A,-	1	PC	SA
6006-001174	SCREW-TAPPING	TH,+,WE,2S,M4,L12,ZPC(WHT),SWRCH18A	17	PC	SNA
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	2	PC	SA
6009-001522	SCREW-HEX	HEX,+,-,M5,L16,PASS,STS430,FP,NYLOCK	2	PC	SA
DC60-20057A	SCREW-TAPPING		2	PC	
DC97-14006A	ASSY SCREW	WF203,-,SCREW-TAPPING,-,M4/L16,-	3	PC	SA

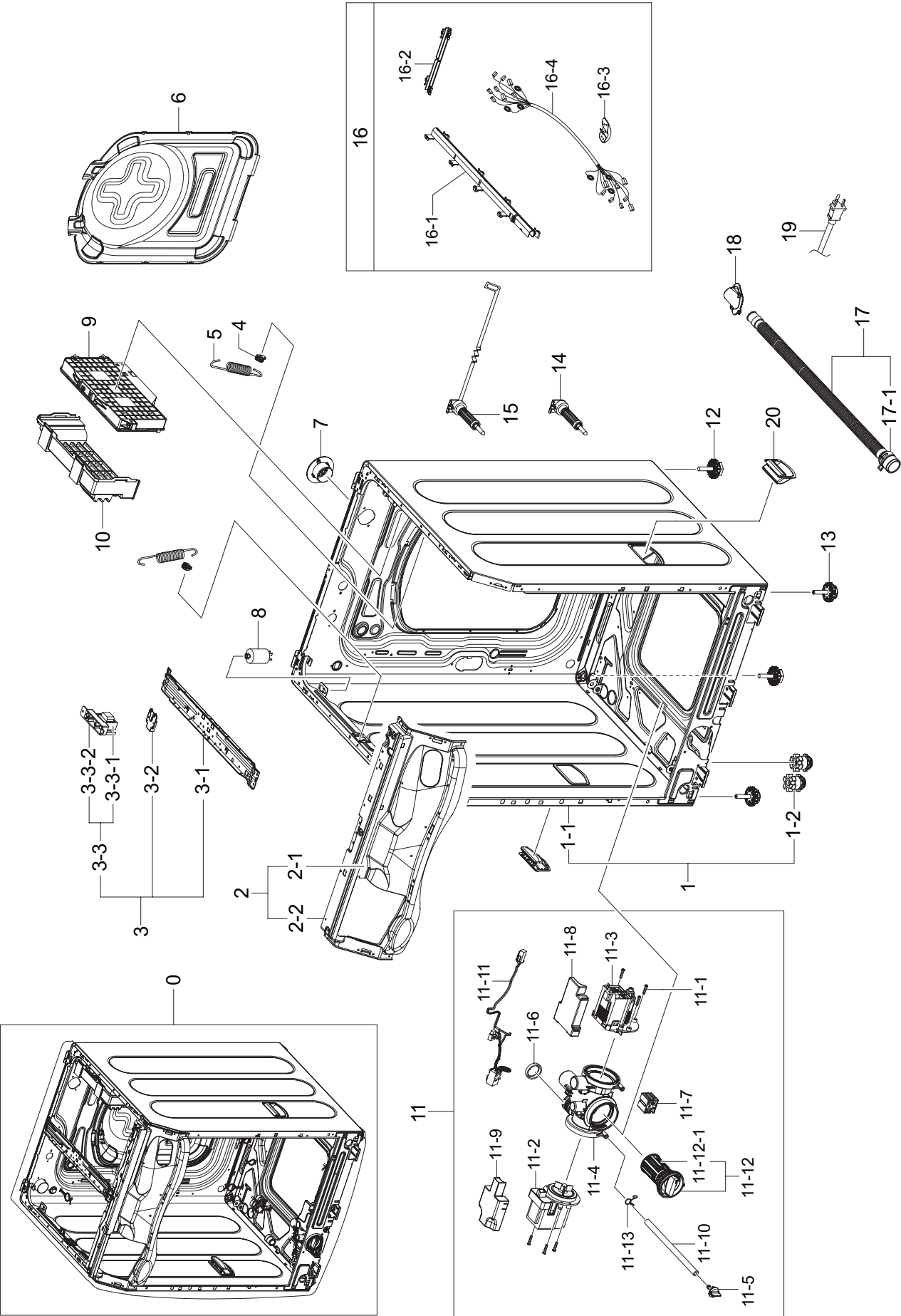
5-1. MAIN (WF511ABR/XAA)



MODEL CODE: WF511ABR/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	WF511ABR/XAA	FWM,SEA,US		1		
1		FRAME & COVER PARTS	Refer to 5.2 FRAME & COVER PARTS	1		
2	DC97-16296W	ASSY COVER TOP	GRACEJR,WF511,T0.8,TANGO-RED	1	PC	SA
3	DC90-06068A	ASSY TUB&DRUM	GRACE Jr,WF511	1	PC	SNA
4		ASSY-FRAME FRONT & DOOR	Refer to 5.4 FRAME FRONT & DOOR	1		
5	DC97-16401B	ASSY COVER FILTER	GRACEJR,WF511ABR/XAA,T2.5,TANGO-RED	1	PC	SA
5-1	DC63-01264B	COVER-FILTER	WF511,ABS,T2.5,W151,L119,TANGO-RED,GRACEJR	1	PC	SA
6	DC97-16154C	ASSY PANEL CONTROL	GRACE JR-PJT,WF511,TANGO-RED	1	PC	SNA
7	DC97-16144C	ASSY DRAWER	GRACE Jr,WF511,TANGO RED,NO AG	1	PC	SA
8	DC97-16142B	ASSY HOUSING DRAWER	GRACE Jr,WF511,MAIN/PRE/HOT/ BLEACH/STEAM/4WAY,NO AG	1	PC	SA
9	DC60-40146A	BOLT-SPANER	-,CR,-,T2.5,OD36,-,-,-,-	1	PC	SA
10	DC62-10278A	HOSE-HANGER	PP,NTR,JS20 RESIN	1	PC	SA
11	DC67-00307A	CAP-FIXER	WF438AAC/XAA,PP,T1.5,Φ33,-,WHT,PURPLE-PJT	6	PC	SA
12	DC97-15691A	ASSY HOSE WATER	ACE,WF419AAW,HOT,L1240,OD15, ID8.7,BLK	1	PC	SA
12-1	DC62-00075A	HOSE-WATER(H)	NBR+NYLON,ID10.2,OD16.5,L1240,BLK,W SLS1100A0WW/HOT	1	PC	SNA
12-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	1	PC	SA
13	DC97-15692A	ASSY HOSE WATER	ACE,WF419AAW,COLD,L1240,OD15, ID8.7,BLK	1	PC	SA
13-1	DC62-00075B	HOSE-WATER(C)	NBR+NYLON,ID10.2,OD16.5,L1240,BLK,W SLS1100A0WW/COLD	1	PC	SNA
13-2	DC62-40178A	SEAL-WATER	EPDM,BLK,ID12XOD25XT3	1	PC	SA

5-2. FRAME & COVER PARTS (WF511ABR/XAA)



MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

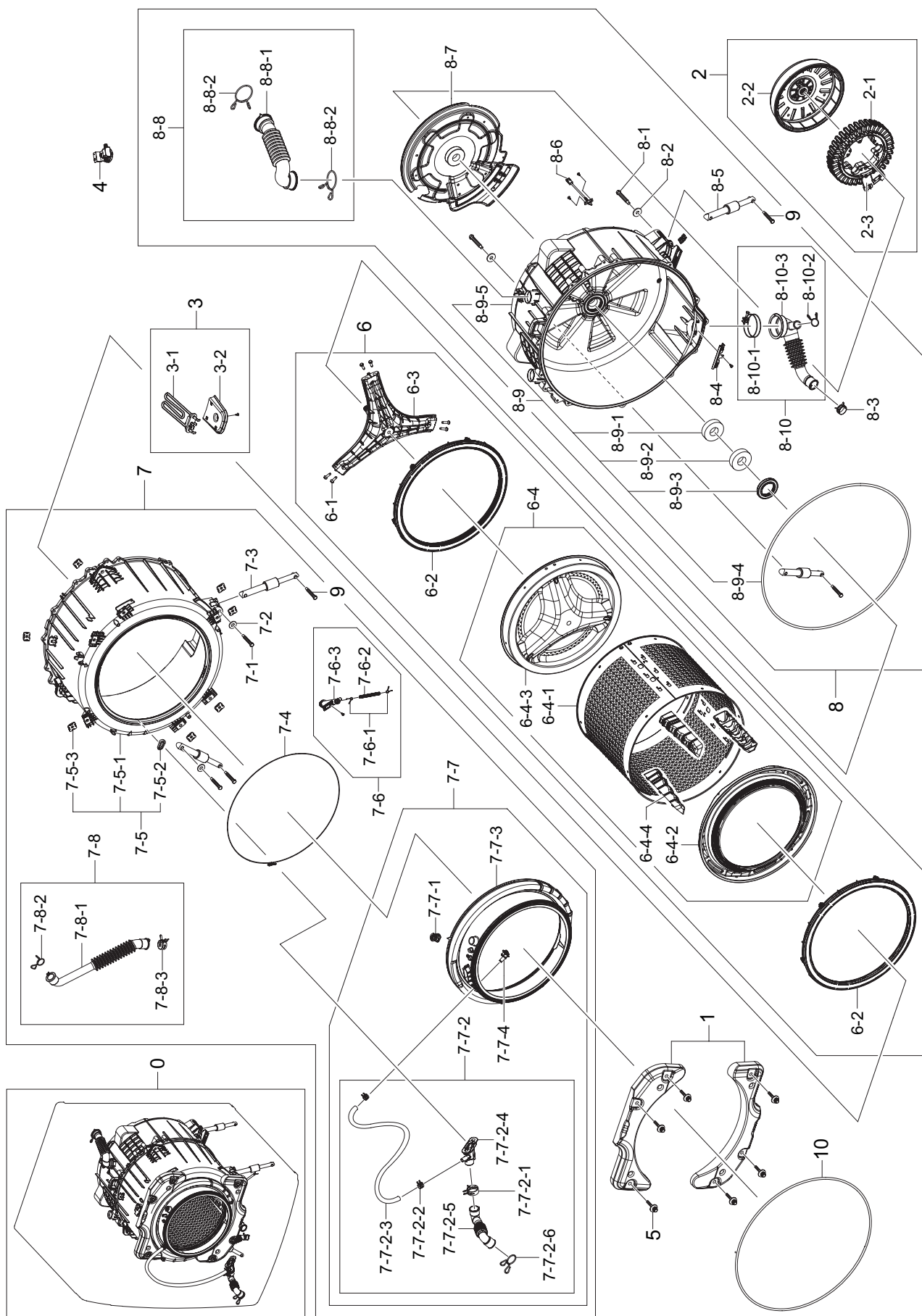
Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		FRAME & COVER PARTS		1		
1	DC97-16016C	ASSY FRAME	GRACE JR,WF431,PCM(GI),T1.0,TANGO-RED	1	PC	SA
1-1	DC61-02602C	FRAME	WF511ABR/XAA,GI-SGCC,TANGO-RED,T1.0,W686,L684,GRACEJR	1	PC	SNA
1-2	DC99-00815A	ASSY CUSHION PUMP	MARS-PJT,WF206LNW,-,-,-	2	PC	SA
2	DC97-16017A	ASSY FRAME PLATE(U)	GRACE-PJT,WF520ANP/XAA,T1.4	1	PC	SNA
2-1	DC61-02008B	GUIDE-PANEL	WF438AAW,PP,T2.0,FC2305/NTR,PURPLE-PJT	1	PC	SA
2-2	DC61-02617A	FRAME-PLATE(U)	WF520ANP,GI,NTR,T1.4,W675,L162.8,GRACE-PJT	1	PC	SA
3	DC97-08632K	ASSY GUIDE WIRE	GRACE-PJT,WF520,SGCC(GI),T0.8	1	PC	SNA
3-1	DC61-01200B	GUIDE-WIRE	WF206LNW,SBHG1-A,T0.8,-,-,-,MARS-PJT/SGCC(GI)	1	PC	SNA
3-2	DC92-00354A	ASSY PCB SUB	GRACE-MEMS,GRACE-MEMS,N	2	PC	SA
3-3	DC96-01657A	ASSY TRANS REACTORV	PURPLE-PJT,120V/50~60Hz,-,-	1	PC	SNA
3-3-1	DC26-00009H	TRANS-REACTORV	-,PURPLE,-,3mH,110V-120V,6A,-,110V-120V,6A,-,60Hz,SILICON STEEL 0.5t,48x40mm,-,-,-,2UEW	1	PC	SA
3-3-2	DC61-00899A	BRACKET-REACTOR	TS85-PJT,PP,T3.0,NTR,5VA GRADE	1	PC	SA
4	DC61-02432A	GUIDE-SPRING	WF419AAW,POM,T2.0,W81.5,L36.5,NTR,ACE_BEST	2	PC	SA
5	DC61-01257E	SPRING ETC-HANGER	WF448AAG,SWP,CD4.5,ID24.8,OD33.8,L192,17 3/4,-,BLK,-,PURPLE-PJT	2	PC	SA
6	DC97-16289A	ASSY COVER BACK	GRACE-PJT,WF520ABP/XAA,COVER BACK+SPONGE,T0.4,W421/ H542.5,NTR	1	PC	SA
6-1	DC63-01163A	COVER-BACK	WF520ANP,GI,T0.4,W421.0,L538.5,NTR	1	PC	SA
7	DC67-00316A	CAP-O.F	WF448AAG,PP,T2.0,-,-,-,OVER FLOW	1	PC	SNA
8	DC29-00013B	FILTER-EMI	-,250V,12,-,50/60Hz,CAN,-,-,-	1	PC	SA
9	DC92-00321D	ASSY PCB MAIN	GRACE WASH MAIN,GRACE WASH MAIN,120V/60Hz,Y,SMPS,STR-Y6473,5V,15V	1	PC	SA
10	DC92-00411A	ASSY COVER PCB(M)	Grace-PJT,WF520ABP/XAA,5VA/T2.5/ABS(VE-0858),N	1	PC	SNA
11	DC97-15974B	ASSY PUMP DRAIN	GRACE JR,WF511,BUBBLE+DRAIN,120V	1	PC	SNA
11-1	6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
11-2	DC31-00016A	PUMP-DRAIN	WSLS1100A,120V,60Hz,40mm,3600RPM	1	PC	SA
11-3	DC31-00054A	PUMP-DRAIN	-,120V,60Hz,40mm,80W/3600RPM	1	PC	SA
11-4	DC61-02017D	CASE-PUMP	WR-PA179UR,PP,T3,W122,L140,-,BUBBLE	1	PC	SA
11-5	DC61-10673A	CAP-DRAIN	SWF-P12,PP(TB53),-,-,-,WHT,-,	1	PC	SNA
11-6	DC62-00202A	VALVE-CHECK	WINGS,EPDM,PO30,1~10BAR,BLK,FLOAT	1	PC	SA
11-7	DC63-00888A	CUSHION-PUMP	WF448AAG,EPDM,-,-,-,BLK,Hs50	1	PC	SNA
11-8	DC63-00958A	COVER-PUMP	COVER-PUMP,PP,T2.5,W60,L110,5VA,-,WHT,-	1	PC	SNA
11-9	DC63-01221A	COVER-PUMP	WF350ANW,PP,T2.5,W100,L70,ASCOLL-PUMP	1	PC	SA
11-10	DC67-00244A	HOSE-DRAIN	HOSE-DRAIN,EPDM,ID6,OD11,T2.5,L200,BLK,-	1	PC	SA
11-11	DC93-00150B	ASSY M. WIRE HARNESS-PUMP	YUCON,WF431ANP/XAA,120-240V/50-60Hz,DRAIN,BUBBLE	1	PC	SA
11-12	DC97-14976A	ASSY FILTER	PURPLE-PJT,ASSY-FILTER,-,-	1	PC	SA
11-13	DD65-00001F	CLAMPER HOSE	SDW-H120,STEEL,-,D10.5/T1.2,-,-	1	PC	SNA

MODEL CODE: WF511ABR/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
12	DC97-00920N	ASSY LEG	K4/Bonanza,WHT / LEG-RING+NYLON-COAT'G,L65,BUTYL	2	PC	SA
13	DC97-14293A	ASSY LEG	SEW-HVR149ATA,HYBRAR-RUBBER,-,-,-,HYBRAR-RUBBER	2	PC	SA
14	DC97-14489A	ASSY FIXER TUB	PURPLE-PJT,WF438AAC/XAA,-,-,-,-	3	PC	SA
15	DC97-14489B	ASSY FIXER TUB	PURPLE-PJT,WF448AAW/XAA,FIXER-CONNECTOR,-,-,-	1	PC	SA
16	DC93-00149B	ASSY M.GUIDE WIRE HARNESS	GRACE JR,WF511ABR,110~240V/50~60HZ,NO STEAM,BUBBLE	1	PC	SA
16-1	DC61-02024A	GUIDE-WIRE(B)	WF448AAG/XAA,PP,T2.5,W19,L190,NTR,PURPLE-PJT	1	PC	SNA
16-2	DC61-02025A	GUIDE-WIRE(A)	WF448AAG/XAA,PP(TB53),T2.5,W34,L550,-,PURPLE-PJT	1	PC	SNA
16-3	DC61-02077A	GUIDE-WIRE	PURPLE,ABS(V0),T2.0,-,-,NTR,-	1	PC	SNA
16-4	DC93-00148B	ASSY M. WIRE HARNESS	GRACE JR,WF511ABR,110~240V/50~60HZ,NO STEAM,BUBBLE	1	PC	SA
17	DC97-12534F	ASSY HOSE DRAIN(I)	GRACE-PJT,WF520ABP,L2412,ID20.5,GRAY	1	PC	SA
17-1	DC61-01679A	CLAMPER HOSE	SEW-HFR177AR,SK5,-,T1.6/ID37/OD39.2,NTR,-	1	PC	SA
18	DC61-02084A	GUIDE-HOSE	PURPLE,PP(T142),-,-,-,WHT,-	1	PC	SNA
19	DC96-00757A	ASSY POWER CORD	GW,EP3,UL/CSA,3/16AWG	1	PC	SA
20	DC97-15854B	ASSY HANDLE	ACE,DRUM WASHER,PP,TANGO-RED	2	PC	SA

MEMO

5-3. ASS'Y TUB & DRUM (WF511ABR/XAA)



MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC90-06068A	ASSY TUB&DRUM	GRACE Jr,WF511	1	PC	SNA
1	DC67-00560A	WEIGHT-BALANCER	WF520,PP,L550,BLK,6900g	2	PC	SNA
2	DC96-01218D	ASSY DD BLDC MOTOR	DON1500,34mm/Cu Wire/7BD,-,-,-,-	1	PC	SA
2-1	DC31-00074C	MOTOR BLDC-ASSY STATOR	DON1500,0~1300,30Nm,DC310V,5A,30 Nm,DC,1500W,DON1500,CU WIRE,-,-,-,130,34mm	1	PC	SA
2-2	DC31-00075C	MOTOR BLDC-ASSY ROTOR	DON1500,0~1300,-,DC310V,5A,-,DC,1500W,ASSY ROTOR,JACOBI15 NEW SERRATION,-,-,-,130□,MAGNET 40mm	1	PC	SA
2-3	DC31-00076A	MOTOR BLDC-ASSY HALL SENSOR	DON1300,0~1200,-,DC310V,0.5A,-,DC,-,ASSY HALL SENSOR,ASSY HALL SENSOR,-,-,-,130C	1	PC	SA
3	DC96-01417B	ASSY HEATER	WF337AAW,COVER+DC47-00006P,-,-	1	PC	SNA
3-1	DC47-00006Y	HEATER-WASH	GE24" WASHER,Incoloy800,900W,7.12~7.8 8A,120V,15.4~16.7,131,177,Double Fuse/No Thermistor/ Insulator(Red+Blue)	1	PC	SA
3-2	DC63-00820A	COVER-HEATER	WF337AAW,ABS+PC,T2.5,5VA,FRONTIER2	1	PC	SNA
4	DC96-01703B	ASSY SENSOR PRESSURE	PURPLE PJT,PURPLE PJT,0~300mmH20,non pcb,-,-	1	PC	SA
5	DC97-02412A	ASSY BOLT	SWF-P12,MOTOR/ M8*L62,-,-,-,-	6	PC	SA
6	DC97-16086A	ASSY DRUM	GRACE-PJT,WF520ABP	1	PC	SA
6-1	DC60-40137A	BOLT-HEX	MARS-PJT,STS430,M8,-,P1.25,L30,-,-,HEX/ KNURING	6	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-2	DC97-12135A	ASSY BALANCER	ZEUS-PJT,-,-,-,-	1	PC	SA
6-3	DC97-14421B	ASSY FLANGE SHAFT	GRACE-PJT,WF520ABP	1	PC	SNA
6-4	DC97-16089A	ASSY DRUM WRAPPER	GRACE,WF520ABP	1	PC	SNA
6-4-1	DC66-00594A	DRUM-WRAPPER	WF520ANP,STAINLESS-STS430,T0.6	1	PC	SNA
6-4-2	DC66-00506A	DRUM-FRONT	PURPLE PJT,STS430,-,-,-,-,T0.6	1	PC	SNA
6-4-3	DC66-00507A	DRUM-BACK	PURPLE- PJT,STS430,T0.5,-,-,-,-	1	PC	SNA
6-4-4	DC66-00598A	DRUM-LIFTER	GRACE-PJT,PP,GRAY	3	PC	SA
7	DC97-16149A	ASSY TUB FRONT	GRACE-PJT,WF520,5.0cu.ft	1	PC	SNA
7-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
7-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
7-3	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,,-,-,-	2	PC	SA
7-4	DC97-04981F	ASSY CLAMP DIAPHRAGM	PURPLE,WF448AAW,-,-,-,-	1	PC	SA
7-5	DC97-16156A	ASSY SEMI TUB FRONT	GRACE,WF520	1	PC	SA
7-5-1	DC61-02629A	TUB-FRONT	GRACE,FRPP,NTR,5.0CuFt / GF15%	1	PC	SNA
7-5-2	DC62-00268A	SEAL-CONNECTOR	SEW-HAR149AUA,EPDM,BLK,-,-,-,APHRODITE PJT	1	PC	SA
7-5-3	DC61-00201A	BRACKET-NUT	P1291,SBHG-R,T3,NO-PAINT/MOTOR	6	PC	SA
7-6	DC97-14545H	ASSY HOSE PRESSURE	GRACE,WF520	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR,CD1.2,ID8.5,OD10.9, WHT	1	PC	SA
7-6-1	DC61-70029C	SPRING-CLIP	SEW-HW125,HSWR,CD1.2,ID8.5,OD10.9, WHT	1	PC	SA
7-6-2	DC67-00230F	HOSE-WATER	WF210,TPE,ID4.5,OD8.0,L900,BLK	1	PC	SNA
7-6-3	DC67-00492A	HOSE-JOINT AIR	WF520,PP,T1.8,L165.8xH80,WHT	1	PC	SNA
7-7	DC97-16140A	ASSY DIAPHRAGM	GRACE,WF520,5.0cu.ft	1	PC	SA

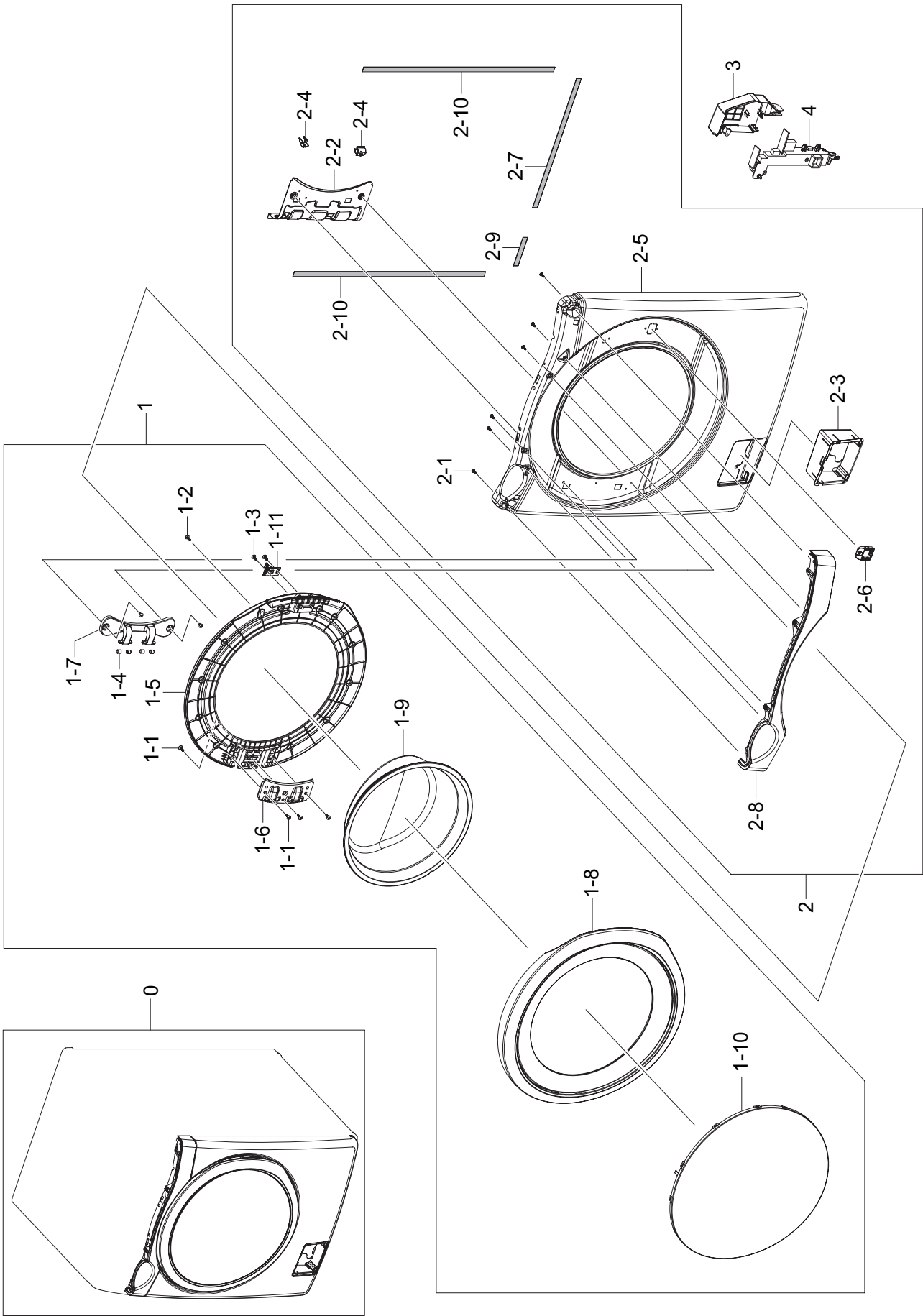
MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
7-7-1	DC47-00027D	LAMP-ASSY LAMP	Chip LED Lamp,SLTNCW2502ANMALS,W5.2xH6,L1.3,OD23.5xH22.3,BOX,60mA,0.3W,6V,Chip type (rectangle 1EA)	1	PC	SNA
7-7-2	DC97-16103B	ASSY HOSE AIR	GRACE,WF520,L950,ID9.0/OD14.5,BLK	1	PC	SA
7-7-2-1	DC61-00219F	CLAMPER HOSE	SEW-HAR149AUA,SK5,-,ID27/OD29/H13/T1.0,-,Aphrodite-pjt	1	PC	SNA
7-7-2-2	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
7-7-2-3	DC67-00351B	HOSE-AIR PUMP	SEW-HAR147AUA,TPE,ID9.0,OD14.5,BLK,Bubble Mechanism	1	PC	SNA
7-7-2-4	DC67-00353A	HOSE-CONNECTOR	SEW-HAR149AUA,FRPP-GF15,NTR	1	PC	SA
7-7-2-5	DC67-00469A	HOSE-AIR TUB	WF520,EPDM,ID25.0,OD29.0,T2.0,BLK	1	PC	SNA
7-7-2-6	DC61-00219H	CLAMPER HOSE	GRACE,SK5,ID27/OD28.6/H13/T0.8	1	PC	SA
7-7-3	DC64-02174A	DOOR-DIAPHRAGM	GRACE,EPDM,GRY	1	PC	SA
7-7-4	DC62-00240A	NOZZLE-STEAM	SEW-6HR128ATC,FRPP,NOZZLE : 3.0,ID9.9,T2.2,-,-,WHT,-	1	PC	SA
7-8	DC97-16106A	ASSY HOSE AIR	GRACE,WF520,AIR HOSE,L273,BLK	1	PC	SA
7-8-1	DC67-00468A	HOSE-AIR	WF520,EPDM,ID19.4,OD25.0,T2.0,BLK	1	PC	SNA
7-8-2	DC65-60118J	CLIP-RING	HSWR,WHT,PI2.0/ID23	1	PC	SNA
7-8-3	DC61-00158A	CLAMPER HOSE	SW65ASP,SK5,ID23,-,T0.8/YEL,	1	PC	SNA
8	DC97-16150A	ASSY TUB BACK	GRACE-PJT,WF520,5.0cu.ft	1	PC	SNA
8-1	DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-,-	2	PC	SA
8-2	DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	PC	SNA
8-3	DC61-00219D	CLAMPER HOSE	SW-50A1S,SK5,-,ID33/OD35,-,MFZNT	1	PC	SNA
8-4	DC61-01482A	BRACKET-HEATER	GW-PJT,STS430/304,T0.5,W96,L25,NTR,NEW	1	PC	SNA
8-5	DC66-00470A	DAMPER-SHOCK	FRONTIER II,STEEL+PP+RUBBER,80N,-,-,-,-,-	2	PC	SA
8-6	DC90-10128H	ASSY THERMISTOR	KS-PJT,RUBBER ADD,-,-	1	PC	SA
8-7	DC97-16510A	ASSY BRACKET TUB	GRACE-PJT,WF520ABP	1	PC	SNA
8-8	DC97-16104A	ASSY HOSE O.F	GRACE,WF520,L160.5,ID34/OD38,BLK	1	PC	SA
8-8-1	DC67-00466A	HOSE-O.F	WF520,EPDM,ID43.5,OD45.0,T2.0,BLK	1	PC	SNA
8-8-2	DC72-00001F	CLIP-RING	SEW-HTR122L,HSWR,PI3.0,IDPI44,WHT,HOSE-DRAWER + TUB-FRONT	2	PC	SNA
8-9	DC97-16151A	ASSY S.TUB BACK	GRACE-PJT/SVC,WF520,5.0cu.ft	1	PC	SA
8-9-1	6601-001207	BEARING-BALL	6307ZZ,ID35,OD80,L21,STS304,KBC	1	PC	SNA
8-9-2	6601-001208	BEARING-BALL	6306ZZ,ID30,OD72,L19,STS304,KBC	1	PC	SNA
8-9-3	DC62-00156A	SEAL-OIL	TS85-PJT,NBR(SD45.5),BLK,-,-,-,JINYANG	1	PC	SA
8-9-4	DC69-00804A	SEAL-TUB	GW-PJT,EPDM,H624,BLK,L1930,W624	1	PC	SA
8-9-5	DC97-16155A	ASSY SEMI TUB BACK	GRACE,WF520	1	PC	SNA
8-10	DC97-16105A	ASSY HOSE DRAIN	GRACE,WF520,L238.5,BLK	1	PC	SA
8-10-1	DC65-00014A	CLAMPER HOSE-JOINT	GW-PJT,HSWR,ID84,ZPC2,HOSE-FILTER	1	PC	SA
8-10-2	DC65-60125B	CLIP-RING	HSWR,T2.4,PI25,YEL	1	PC	SNA
8-10-3	DC67-00465A	HOSE-DRAIN	WF520,EPDM,ID73.0,OD74.7,T2.0,BLK	1	PC	SNA
9	6011-001644	BOLT-HEX	M10,L35,ZPC2(YEL),SM10C,DAMPER	4	PC	SA
10	DC97-04973B	ASSY WIRE DIAPHRAGM	SEW-HFR167AR,-,-,STS304(T0.9),-,-	1	PC	SA

MEMO

5-4. ASS'Y FRAME FRONT & DOOR (WF511ABR/XAA)

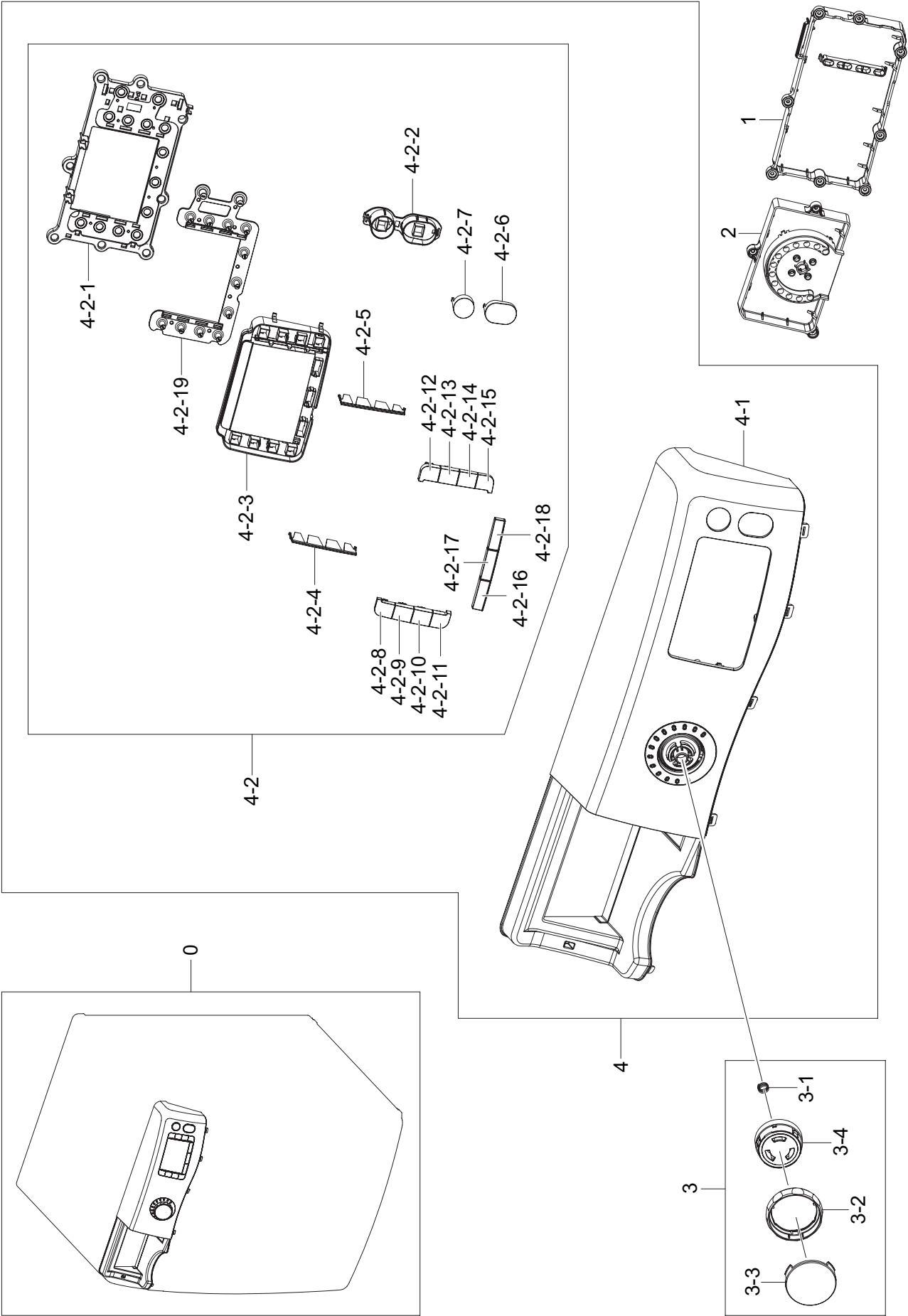


MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0		ASSY-FRAME FRONT & DOOR		1		
1	DC97-16145A	ASSY DOOR	GRACE,WF520ABP/ XAA,ABS,OD590,CHROME	1	PC	SA
1-1	6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	3	PC	SA
1-2	6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	13	PC	SA
1-3	6002-001279	SCREW-TAPPING	PWH,+, -,1,M4,L12,PASS,STS304,-	2	PC	SA
1-4	DC61-00891A	GUIDE-HINGE	HAUZEN(DOM),POM,-,-,-,WHT,HINGE	4	PC	SA
1-5	DC61-02634A	HOLDER-GLASS	WF520,PP,W590,L604,GRAY,GRACE-PJT	1	PC	SA
1-6	DC61-02635A	SUPPORT-HINGE	SBHG1-A(SGCC),T1.4,L175.0,GRACE-PJT	1	PC	SA
1-7	DC61-02640A	HINGE-DOOR	WF520,ALDC,T3.5,L246.0,GRACE-PJT	1	PC	SA
1-8	DC63-01160A	COVER-DOOR	WF520,ABS,T2.8,W590.0,L605.5,IMPERIA L-SILVER,GRACE-PJT	1	PC	SA
1-9	DC64-00504A	DOOR-GLASS	TS85-PJT,NON-HeatTreatment GLASS,N. TEMP	1	PC	SC
1-10	DC64-02144A	DOOR-SAFETY	GRACE,PET,T2.8,W510,L510,SMOG,PCTG / JN200-CP	1	PC	SA
1-11	DC66-00375A	LEVER-DOOR	10KG DRUM,ZNDC,2.5MM,-,-,-,NI+CR COATING,-	1	PC	SC
2	DC97-16397B	ASSY FRAME FRONT	GRACEJR,WF511,T0.8,TANGO-RED	1	PC	SA
2-1	6002-000239	SCREW-TAPPING	TH,+,NO,2S,M4,L8,ZPC(WHT),SWRCH18A	6	PC	SA
2-2	DC61-02615A	BRACKET-HINGE	WF520ANP,GI,T1.4,W161,L264,GRACE- PJT	1	PC	SA
2-3	DC61-02621A	GUIDE-COVER FILTER	WF520ANP,PP,T2.5,W146.8,L116.8,GRAY,G RACE-PJT	1	PC	SNA
2-4	DC61-02792A	HOLDER-HOSE	WF520ABP/ XAA,PA,T1.5,W17,L25,BLACK,GRACE-PJT	2	PC	SA
2-5	DC61-02867B	FRAME-FRONT	WF511,EGI-SECC,TANGO- RED,T0.8,W684,L821,GRACEJR	1	PC	SNA
2-6	DC63-00960A	COVER-SWITCH(O)	WF218,POM,T3,-,-,-,NATURAL,DOOR LOSCK SWITCH	1	PC	SA
2-7	DC63-10001D	ABSORBER SPONGE	EPDM,T1.0,W15,L400,GRY	1	PC	SNA
2-8	DC64-02162A	DECORATION-FRONT	WF520ABP,ABS,T2.8,W684,L56.8,AL Evaporated,HH106	1	PC	SA
2-9	DC72-00034E	ABSORBER SPONGE	MAH9700,EPDM,T1.0,W15,L100,GRAY	1	PC	SNA
2-10	DC72-00034T	ABSORBER SPONGE	WF448AAP/ XXA,EPDM,T1,W15,L700,GRY,PURPLE- PJT	2	PC	SNA
3	DC63-01156A	COVER-DOOR SWITCH	WF520ANP,PP,T2.5,W86.5,L159.5,5VA,NTR ,GRACE-PJT	1	PC	SNA
4	DC64-00519B	DOOR-LOCK S/W	GW-PJT,PP-GF,-,-,-,- ,BLK,120V/50~60Hz/16A/857	1	PC	SA

5-5. ASS'Y PANEL CONTROL (WF511ABR/XAA)

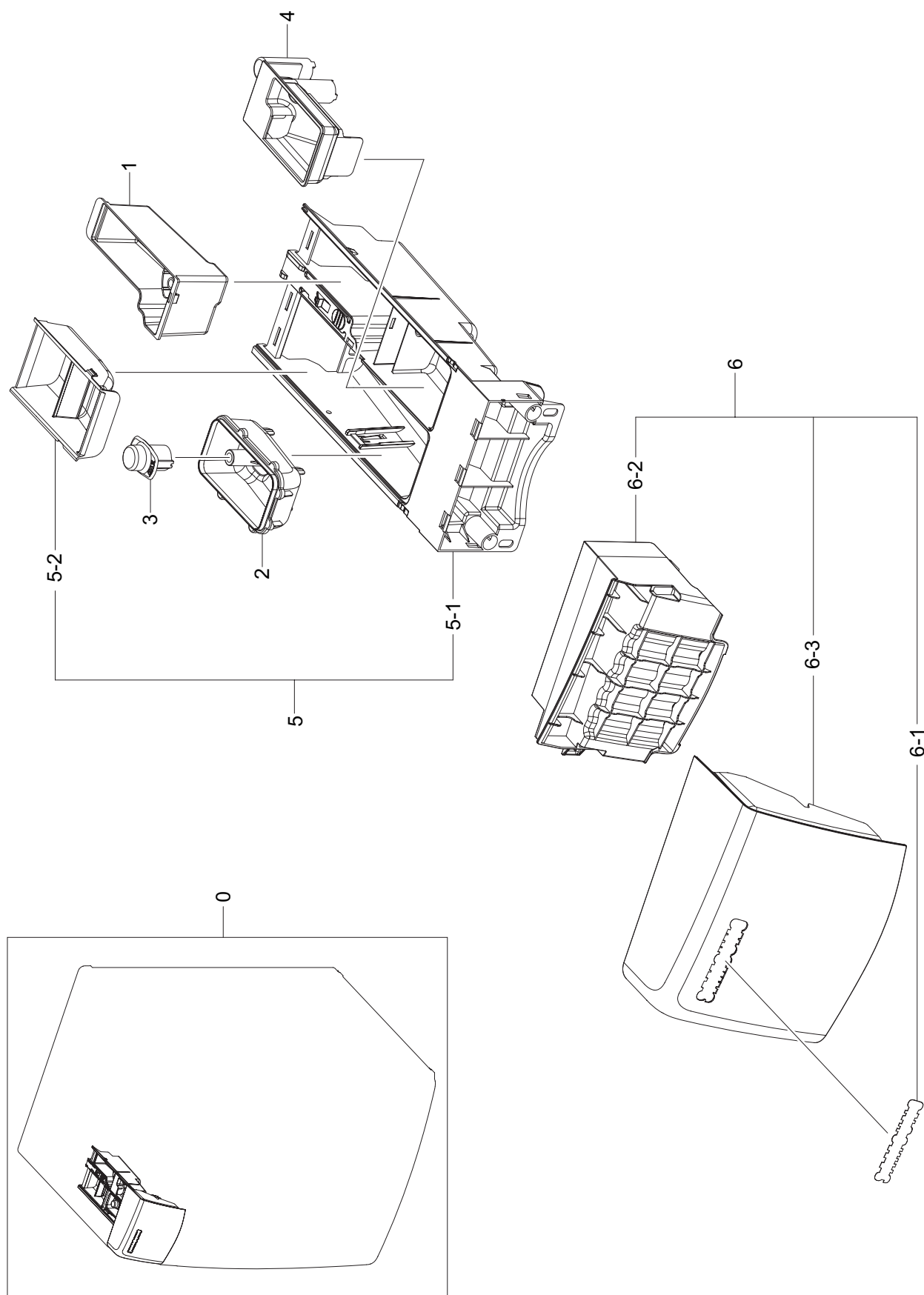


MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16154C	ASSY PANEL CONTROL	GRACE JR-PJT,WF511,TANGO-RED	1	PC	SNA
1	DC92-00319D	ASSY PCB SUB	GRACE Jr WASHER,SUB GRAPHIC,120V/60Hz,N	1	PC	SNA
2	DC92-00320A	ASSY PCB SUB	GRACE SUB ENCODER,GRACE SUB ENCODER	1	PC	SA
3	DC97-16068A	ASSY KNOB ENCODER	SQUALL,WF350ANW/XAA	1	PC	SA
3-1	DC61-02771A	SPRING ETC-TENSION	WR-HD139UW,STAINLESS-ST304,PI 0.8,ID8	1	PC	SA
3-2	DC64-02222A	DECORATION-ENCODER	WF350ANW/XAA,ABS,T6.0,W67.6,NTR,SQUALL	1	PC	SNA
3-3	DC64-02223A	DECORATION-ENCODER(I)	WF350ANW/XAA,ABS,T2.0,W57.7,NTR,SQUALL	1	PC	SNA
3-4	DC64-02305A	KNOB-ENCODER	WR-HC126UH,ABS,GREY,HELIOS-C PJT	1	PC	SNA
4	DC97-16107D	ASSY S.PANEL CONTROL	GRACE JR,WF511,INOX,ENG	1	PC	SA
4-1	DC64-02178C	PANEL-CONTROL	WF511,ABS,T4.0,W679.5,L146,TANGO-RED	1	PC	SNA
4-2	DC97-16029D	ASSY BUTTON	GRACE JR,WF511,TANGO-RED,ABS,ALDC	1	PC	SA
4-2-1	DC63-01159A	COVER-BUTTON	WF520,ABS,T2.0,W206.4,L107.9,NTR,GRACE-PJT	1	PC	SNA
4-2-2	DC64-02176A	DECORATION-BUTTON(P)	WF520,ABS,W32,L94,NTR	1	PC	SNA
4-2-3	DC64-02177B	WINDOW-PANEL	WF511,PMMA,T2.0,W164.5,L111,NTR	1	PC	SNA
4-2-4	DC64-02181A	DECORATION-LED(L)	WF520,PC,T2.5,W24.5,L84,NTR	1	PC	SNA
4-2-5	DC64-02182A	DECORATION-LED(R)	WF520,PC,T2.5,W20.1,L83.2,NTR	1	PC	SNA
4-2-6	DC64-02185C	BUTTON-PUSH(S)	WF511,ABS,NTR,CLR COATING/ RED	1	PC	SNA
4-2-7	DC64-02186C	BUTTON-PUSH(P)	WF511,ABS,NTR,CLR COATING	1	PC	SNA
4-2-8	DC64-02187D	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT	1	PC	SNA
4-2-9	DC64-02188C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT	1	PC	SNA
4-2-10	DC64-02189C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT / INOX	1	PC	SNA
4-2-11	DC64-02190C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT / INOX	1	PC	SNA
4-2-12	DC64-02191C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT/ INOX	1	PC	SNA
4-2-13	DC64-02192C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT/ INOX	1	PC	SNA
4-2-14	DC64-02193C	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT/INOX	1	PC	SNA
4-2-15	DC64-02194D	BUTTON-PUSH(O)	WF511,ABS,NTR,LASER CUT	1	PC	SNA
4-2-16	DC64-02195A	BUTTON-PUSH(F)	WF520,ABS,NTR,LASER CUT	1	PC	SNA
4-2-17	DC64-02196A	BUTTON-PUSH(F)	WF520,ABS,NTR,LASER CUT	1	PC	SNA
4-2-18	DC64-02197A	BUTTON-PUSH(F)	WF520,ABS,NTR,LASER CUT	1	PC	SNA
4-2-19	DC64-02200A	BUTTON-RUBBER	WF520,SILICON,NTR,K760	1	PC	SA

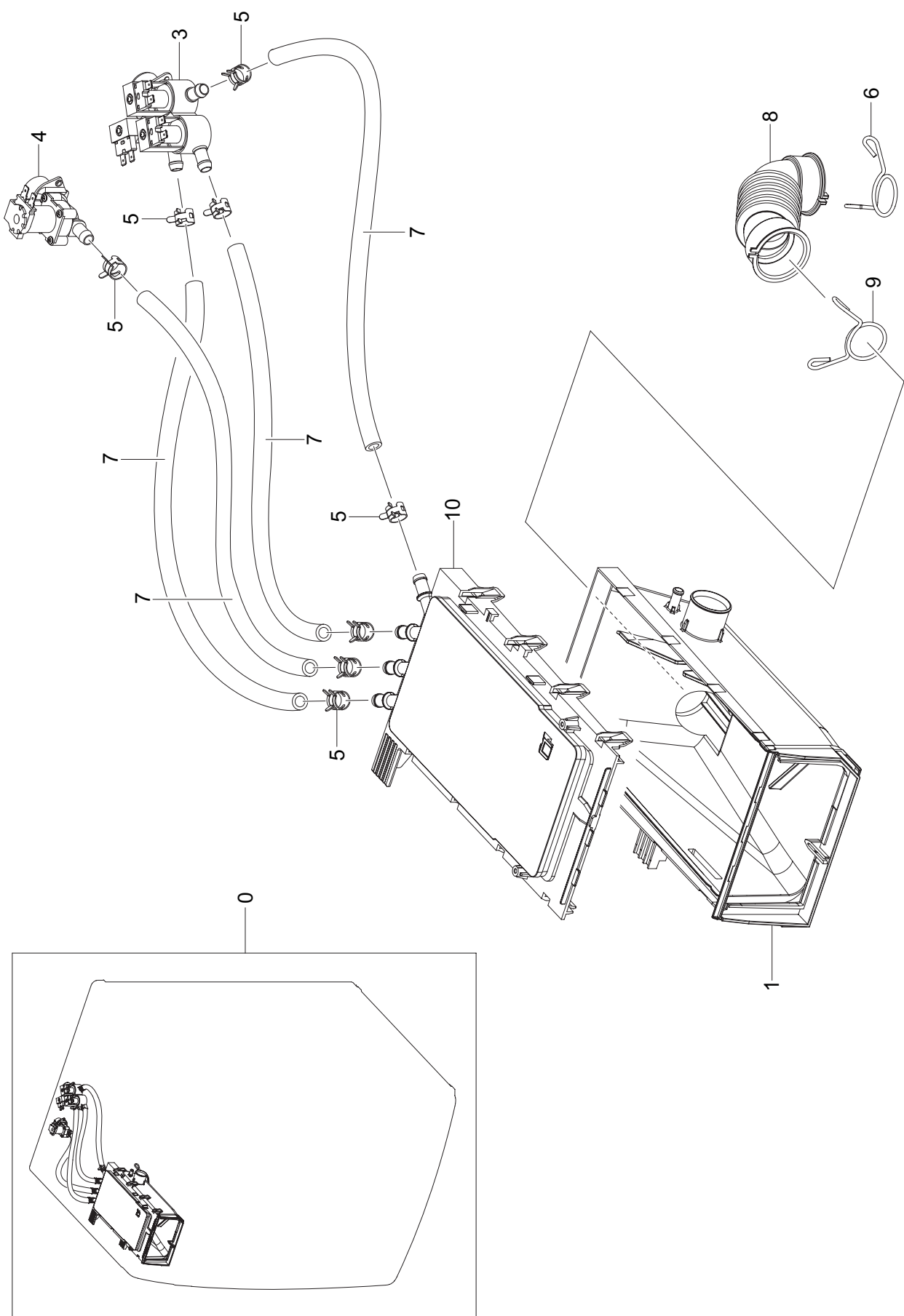
5-6. ASS'Y DRAWER (WF511ABR/XAA)



MODEL CODE: WF511ABR/XAAService Bom (**SA**: SERVICE AVAILABLE, **SNA**: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16144C	ASSY DRAWER	GRACE Jr,WF511,TANGO RED,NO AG	1	PC	SA
1	DC61-01995A	CASE-BLEACH	WF448AAW,PP,-,-,-,SOAF-BLUE,PURPLE-PJT	1	PC	SNA
2	DC61-02427A	GUIDE-LIQUID(M)	WF419HAW,PP,BLUE,ACE-PJT	1	PC	SA
3	DC67-00444A	CAP-DRAWER	WR-PB168UW,PP,T2.0,W27,L38.7,BLUE,DOMESTIC	1	PC	SA
4	DC67-00499A	CAP-RINSE	WF350ANW,PP,SOAF-BLUE,SQUALL-PJT	1	PC	SA
5	DC97-14481E	ASSY S.DRAWER	PURPLE,WF448,TEFRON COATING	1	PC	SA
5-1	DC61-01992C	BODY-DRAWER	592-495090,PP,T2.0,L327.5,W149.4,WHT,ACE PJT/ NON-COATING	1	PC	SNA
5-2	DC61-02445A	CASE-PRE WASH	ACE-PJT,PP,T1.8,WHT,TB53	1	PC	SA
6	DC97-16143C	ASSY PANEL DRAWER	GRACE Jr,WF511,TANGO-RED,SAMAUNG	1	PC	SA
6-1	DC64-01387A	MASCOT	FRONTIER II,NICKEL,-,-,-,-,-	1	PC	SNA
6-2	DC64-02183B	DECORATION-PANEL DRAWER	WF520,ABS,W71.5,L129.0,NEAT-WHITE	1	PC	SNA
6-3	DC64-02184C	PANEL-DRAWER	WF511,ABS,T3.0,W146.0,L232.0,TANGO-RED,GRACE Jr	1	PC	SNA

5-7. ASS'Y HOUSING DRAWER (WF511ABR/XAA)



MODEL CODE: WF511ABR/XAAService Bom (**SA:** SERVICE AVAILABLE, **SNA:** SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	QTY	Un	SA/SNA
0	DC97-16142B	ASSY HOUSING DRAWER	GRACE Jr,WF511,MAIN/PRE/HOT/ BLEACH/STEAM/4WAY,NO AG	1	PC	SA
1	DC61-02636B	HOUSING-DRAWER(L)	WF511,PP,T1.8,W174.5,L330.5,TANGO-RED,GRACE-PJT	1	PC	SA
2	DC61-60067C	CLAMPER HOSE	-,SK5,-,ID15.5,WHT,T1.0	2	PC	SNA
3	DC62-00142G	VALVE-WATER	220~240V/50~60Hz, 3WAY, mm, BLU	1	PC	SA
4	DC62-30314K	VALVE-WATER	V-0117,NYLON #6,83x45,1~8(10 L/ min),RED,1WAY	1	PC	SA
5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
5	DC65-00008A	CLAMPER HOSE	SEW-DR605,SK5,-,-,YEL,ID14.2/T0.9	2	PC	SNA
6	DC65-00027B	CLAMPER HOSE	GRACE,SK5,ID43.0/OD45.4/H23/T1.2	1	PC	SA
7	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3	M	SA
7	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.3	M	SA
7	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.36	M	SA
7	DC67-00051B	HOSE-DRAWER	Q1636GW/XEU,EPDM,ID9.0,OD14.5,-,-,BLK,-	0.26	M	SA
8	DC67-00467A	HOSE-DRAWER TUB	WF520,EPDM,ID43.5,OD45,T2.0,BLK	1	PC	SA
9	DC72-00001F	CLIP-RING	SEW-HTR122L,HSWR,PI3.0,ID PI44,WHT,HOSE-DRAWER + TUB-FRONT	1	PC	SNA
10	DC97-16141A	ASSY S.HOUSING DRAWER	GRACE,WF520ABP/XAA,NO AG	1	PC	SA

5-8. SMALL PARTS (WF511ABR/XAA)

								
1	2	3	4	5	6	7	8	9

MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Drawing No.	Code No.	Description	Specification	InstPoint	QTY	Un	SA/SNA
1	DC61-01736B	HOLDER-WIRE	WF337AAW,NYLON66,O D31,H15,L128,NTR,FRO NTIER2	FRAME	1	PC	SNA
2	DC61-00553B	HOLDER-WIRE SADDLE	PA,NTR,DAWS-3NE	GUIDE-WIRE	2	PC	SA
2	DC61-00553B	HOLDER-WIRE SADDLE	PA,NTR,DAWS-3NE	FRAME-PLATE(U)	2	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,PA,NTR(PI18.5)	FRAME	1	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,PA,NTR(PI18.5)	PLATE-BOTTOM	1	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,PA,NTR(PI18.5)	PLATE-BOTTOM	1	PC	SA
3	DC61-40081A	HOLDER-WIRE	DAWH-2NC,PA,NTR(PI18.5)	GUIDE-WIRE	1	PC	SA
4	DC61-00133A	CLAMPER HOSE-FIX	P1291,PP,ID24.5,OD29.5, HOSE+PLUG,BJ-730	FRAME(BACK)	1	PC	SNA
5	6501-000121	CABLE TIE	DA-368,T1.9,W7.5, L368,NTR,NYLON6/6	ASSY ACCESSORY	1	PC	SNA
6	DC61-60074A	HOLDER-WIRE	-,NYLON#66(DAWS-6NB),-,-,-,NTR,-	FRAME-PLATE(U)	2	PC	SA
7	DC61-02436A	HOLDER-WIRE	NYLON,T2.5,W24, L42.0,NTR	ASSY PLATE BOTTOM	1	PC	SA
8	DC61-02706A	HOLDER-HOSE	WF210ANW,PA,W14.9, L66,NATURAL,BIGBAN G-PJT	ASSY PLATE BOTTOM	2	PC	SA
9	DC65-10001B	CABLE TIE	DA-100	ASSY HOUSING DRAWER	1	PC	SNA

5-9. PARTS LIST-OTHERS PARTS (WF511ABR/XAA)

MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	InstPoint	QTY	Un	SA/ SNA
0103-002581	POLYURETHANE	CPU-55B/UEP 700FB,V0,PUR	URETHAN_B	0.0477	KG	SA
0103-002581	POLYURETHANE	CPU-55B/UEP 700FB,V0,PUR	URETHANE B	0.012	KG	SA
0103-002582	POLYURETHANE	UEP 700FA/CPU-55A,V0,PUR	URETHAN_A	0.0423	KG	SA
0103-002582	POLYURETHANE	UEP 700FA/CPU-55A,V0,PUR	URETHANE A	0.008	KG	SA
6002-000239	SCREW-TAPPING	TH,+,NO,2S,M4,L8,ZPC(WHT),SWRC H18A	FRAME+A.G/WIRE	1	PC	SA
6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	F/FRONT+DOOR-LOCK	3	PC	SA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH 10A,P1.8,PLANGE	TUB-FRONT+TUB-BACK	16	PC	SA
6002-001306	SCREW-TAPPING	TH,+, ,1,M4,L14,ZPC(WHT),SWRCH18A,-	GUIDE-WIRE(T)	1	PC	SA
6002-001306	SCREW-TAPPING	TH,+, ,1,M4,L14,ZPC(WHT),SWRCH18A,-	G/WIRE+A.T/ REACTOR	2	PC	SA
6002-001306	SCREW-TAPPING	TH,+, ,1,M4,L14,ZPC(WHT),SWRCH18A,-	BRK- REACTOR+REACTOR	1	PC	SA
6002-001306	SCREW-TAPPING	TH,+, ,1,M4,L14,ZPC(WHT),SWRCH18A,-	FRAME-PLATE(U)	2	PC	SA
6002-001306	SCREW-TAPPING	TH,+, ,1,M4,L14,ZPC(WHT),SWRCH18A,-	TUB-BACK+G- WIRE(T)	1	PC	SA
6003-000226	SCREW-TAPTYPE	TH,+, -,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(C)+FRAME	2	PC	SC
6003-000226	SCREW-TAPTYPE	TH,+, -,S,M4,L8,ZPC(WHT),SWRCH18A,-	W/V(H)+FRAME	2	PC	SC
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	COVER-TOP+FRAME	2	PC	SA
6009-001522	SCREW-HEX	HEX,+, ,M5,L16,PASS,STS430,FP,NYLOCK	A.DOOR+A.F/FRONT	2	PC	SA
6011-001565	BOLT-HEX	M6,L35.1,ZPC(YEL),SWCH25K,TAPPI NG	PLATE-BOTTOM	2	PC	SA
6011-001627	BOLT-ETC	M6,L56,MFZn,SCM435,P1.0/HEX/WSP	MOTOR+B/HOUSING	6	PC	SA
DC72-00012L	ABSORBER SPONGE	PURPLE-PJT,PE- FOAM,T33,W30,L185,BLK,WF448(ALL)	ASSY-GUIDE WIRE	1	PC	SA

5-10. PARTS LIST-SCREW PARTS (WF511ABR/XAA)

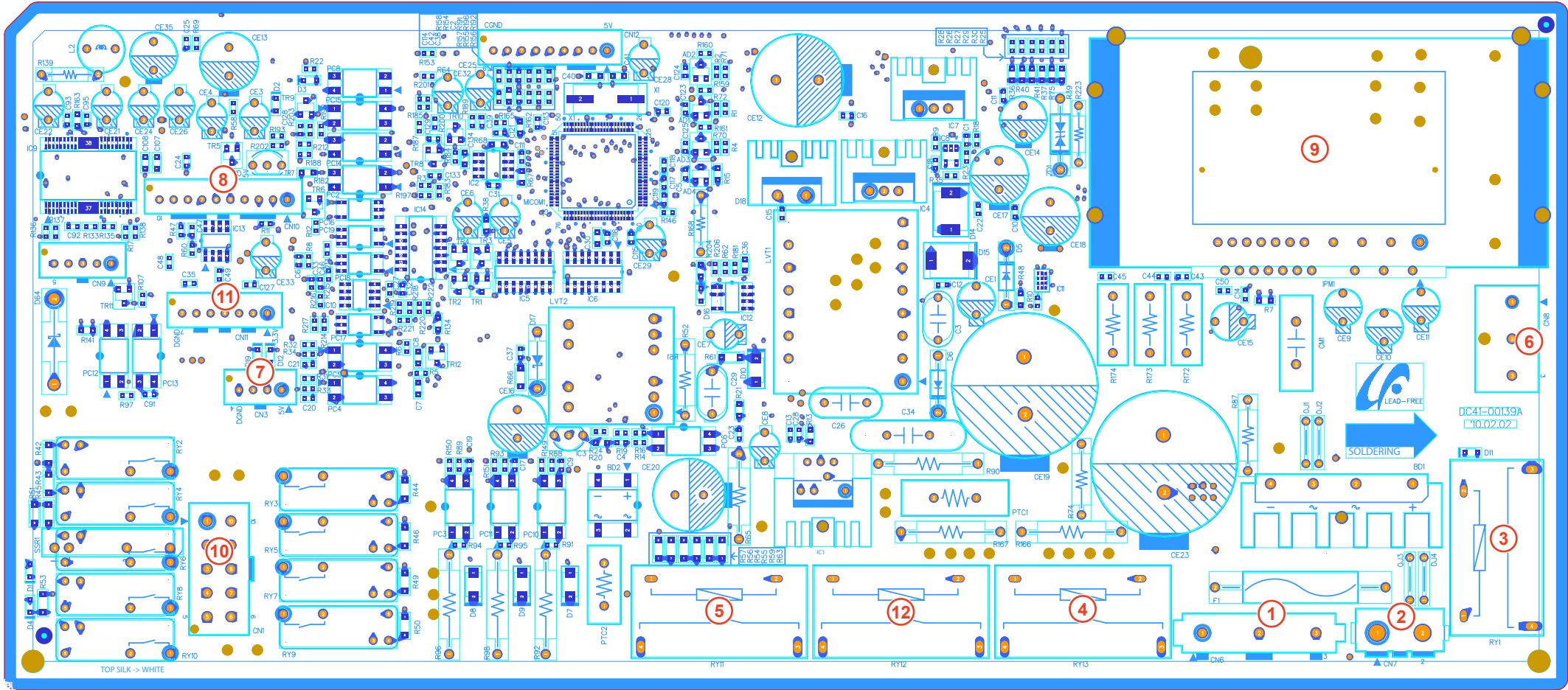
MODEL CODE: WF511ABR/XAA

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Code No.	Description	Specification	QTY	Un	SA/SNA
6001-001668	SCREW-MACHINE	TH,+,M5,L16,PASS,STS430,FP,NYLOCK	3	PC	SA
6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	18	PC	SNA
6002-000239	SCREW-TAPPING	TH,+,NO,2S,M4,L8,ZPC(WHT),SWRCH18A	7	PC	SA
6002-000444	SCREW-TAPPING	TH,+,2,M4,L14,PASS,STS430	16	PC	SA
6002-000525	SCREW-TAPPING	FH,+,-,1,M4,L12,PASS,STS304,-	1	PC	SNA
6002-000632	SCREW-TAPPING	PH,+,-,2S,M4,L16,ZPC(WHT),SWRCH18A,-	6	PC	SNA
6002-001186	SCREW-TAPPING	TH,+,-,2,M5.5,L16,PASS,STS430,-	15	PC	SNA
6002-001277	SCREW-TAPPING	HEX,+,-,2,M6.5,L40,ZPC(WHT),SWRCH10A,P1.8,P LANGE	16	PC	SA
6002-001279	SCREW-TAPPING	PWH,+,-,1,M4,L12,PASS,STS304,-	2	PC	SA
6002-001306	SCREW-TAPPING	TH,+,-,1,M4,L14,ZPC(WHT),SWRCH18A,-	7	PC	SA
6003-000226	SCREW-TAPTYPE	TH,+,-,S,M4,L8,ZPC(WHT),SWRCH18A,-	4	PC	SC
6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT),SWRCH18A,-	1	PC	SNA
6006-001174	SCREW-TAPPING	TH,+,WE,2S,M4,L12,ZPC(WHT),SWRCH18A	17	PC	SNA
6009-001476	SCREW-HEX	HEX,+,M5,L10,ZPC(WHT),SWRCH18A,2	2	PC	SA
6009-001522	SCREW-HEX	HEX,+,-,M5,L16,PASS,STS430,FP,NYLOCK	2	PC	SA
DC60-20057A	SCREW-TAPPING	TH,+,1,M5,L16,ZPC(WHT),SWRCH18A	2	PC	SNA

6. PCB DIAGRAM

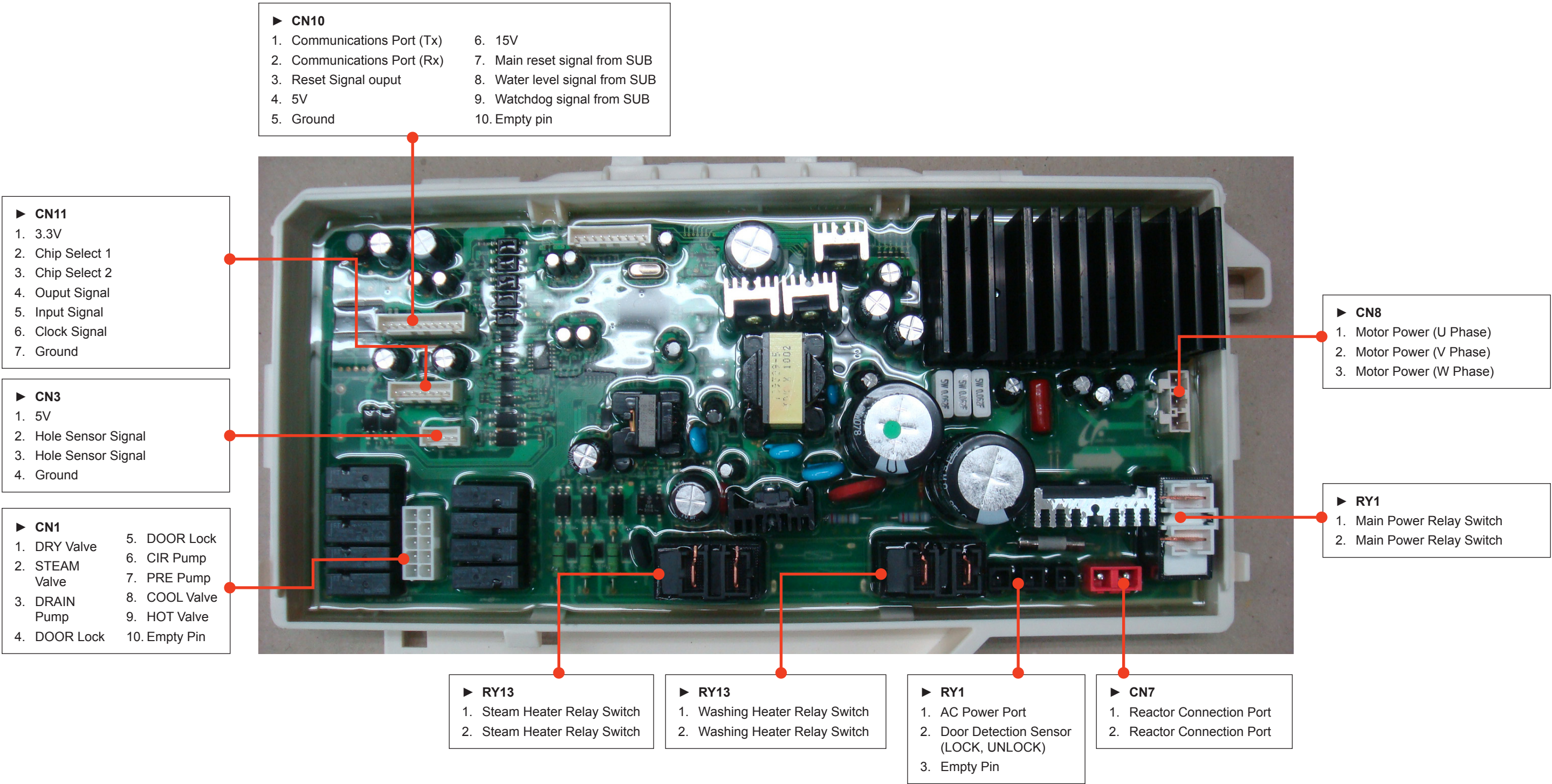
6-1. MAIN PCB



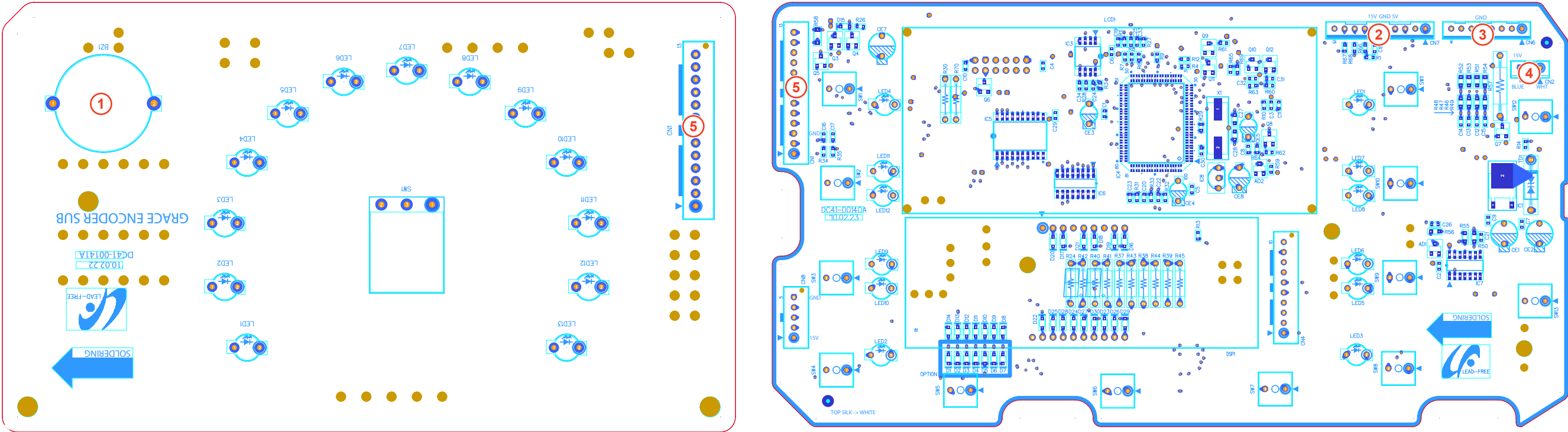
Location	Part No.	Function	Description
1	CN6	PBA Power Supply	Supply 120V of AC power.
2	CN7	Reactor Connection Port	Decrease generated noise when the motor is operated.
3	RY1	Main Relay	Be Supplied PBA power when the Power button is pressed.
4	RY13	Washing Heater Relay	The switch for the Washing Heater power.
5	RY11	Steam Heater Relay	The switch for the Steam Heater power.
6	CN8	Motor Power Supply Port	Supply the 3-phase drive voltage for the Washing Motor.
7	CN3	Hole Sensor Connection Port	Detect whether the Washing Motor is working normally.

Location	Part No.	Function	Description
8	CN10	SUB PBA Connection Port	Supply power to the Sub PBA and provides a communications function.
9	IPM1	Washing Motor Drive IC	Switches and supplies the voltages for the motor.
10	CN1	Each Load Connection Port	The port to supply power for each electric device.
11	CN11	MEMS PBA Connection Port	Supply power to the MEMS PBA and provides a communications function.
12	RY12	Dry Heater Relay	The switch for the Dry Heater power.

6-2. CONNECTOR AND RELAY PORT PART DETAILED MANUAL (MAIN PCB)



6-3. SUB PCB (WF520ABP/XAA, WF520ABW/XAA)

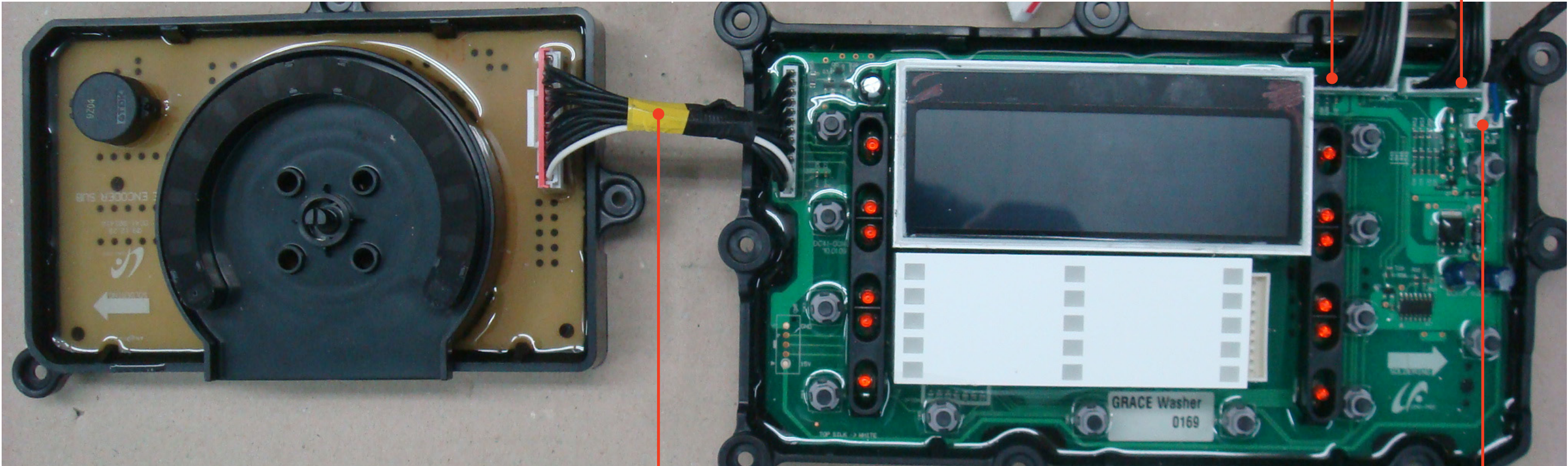


Location	Part No.	Function	Description
1	BZ1	Buzzer Circuit	Be generated sound when the menu key is pressed or the encoder is operated, the menu is closed.
2	CN7	MAIN PBA Connection Port	For communications with main PBA.
3	CN6	Sensor input	Sensing the water level and water temperature.
4	CN2	Drum Light	Turn on when door is opened.
5	CN1	GRAPHIC PBA Connection Port	For communications with graphic PBA.

6-4. CONNECTOR PORT PART DETAILED MANUAL-SUB PCB (WF520ABP/XAA, WF520ABW/XAA)

- **CN10**
- 1. Communications Port (Rx)
 - 2. Communications Port (Tx)
 - 3. Reset Signal output
 - 4. 5V
 - 5. Ground
 - 6. 15V
 - 7. Main reset signal from SUB
 - 8. Water level signal from SUB
 - 9. Watchdog signal from SUB
 - 10. Empty pin

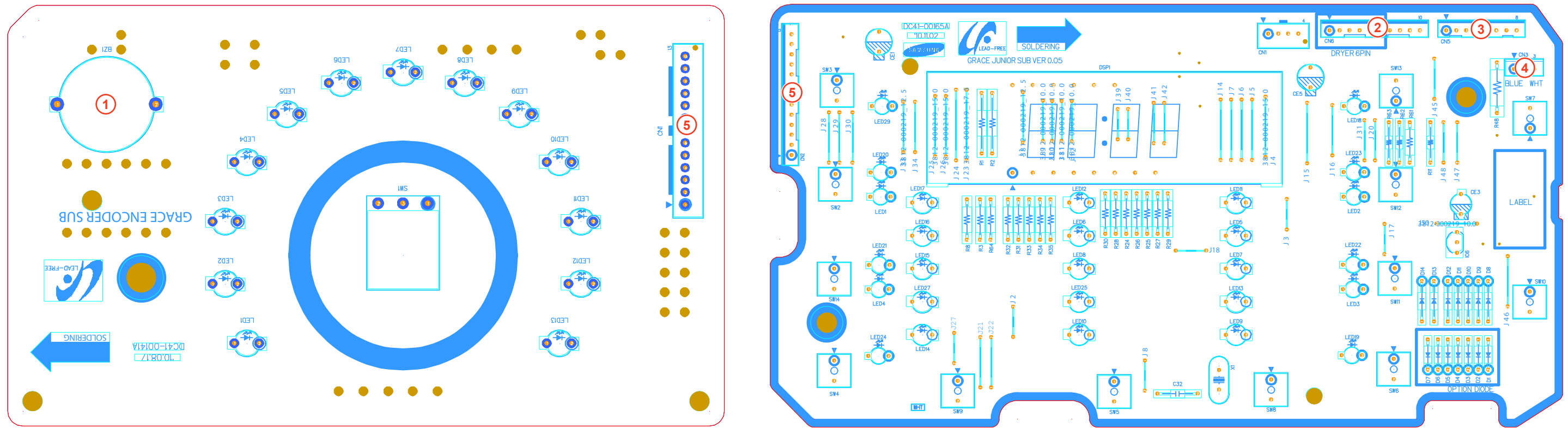
- **CN10**
- 1. Door open/close singnal
 - 2. Empty pin
 - 3. Empty pin
 - 4. Water temperature signal
 - 5. Ground
 - 6. Water level signal
 - 7. Water level signal
 - 8. Empty pin



- **CN10**
- | | |
|---------------|-------------------|
| 1. JOG signal | 7. Led signal |
| 2. JOG signal | 8. Led signal |
| 3. Ground | 9. Led signal |
| 4. Led signal | 10. Led signal |
| 5. Led signal | 11. Led signal |
| 6. Led signal | 12. Buzzer signal |
| | 13. Buzzer signal |

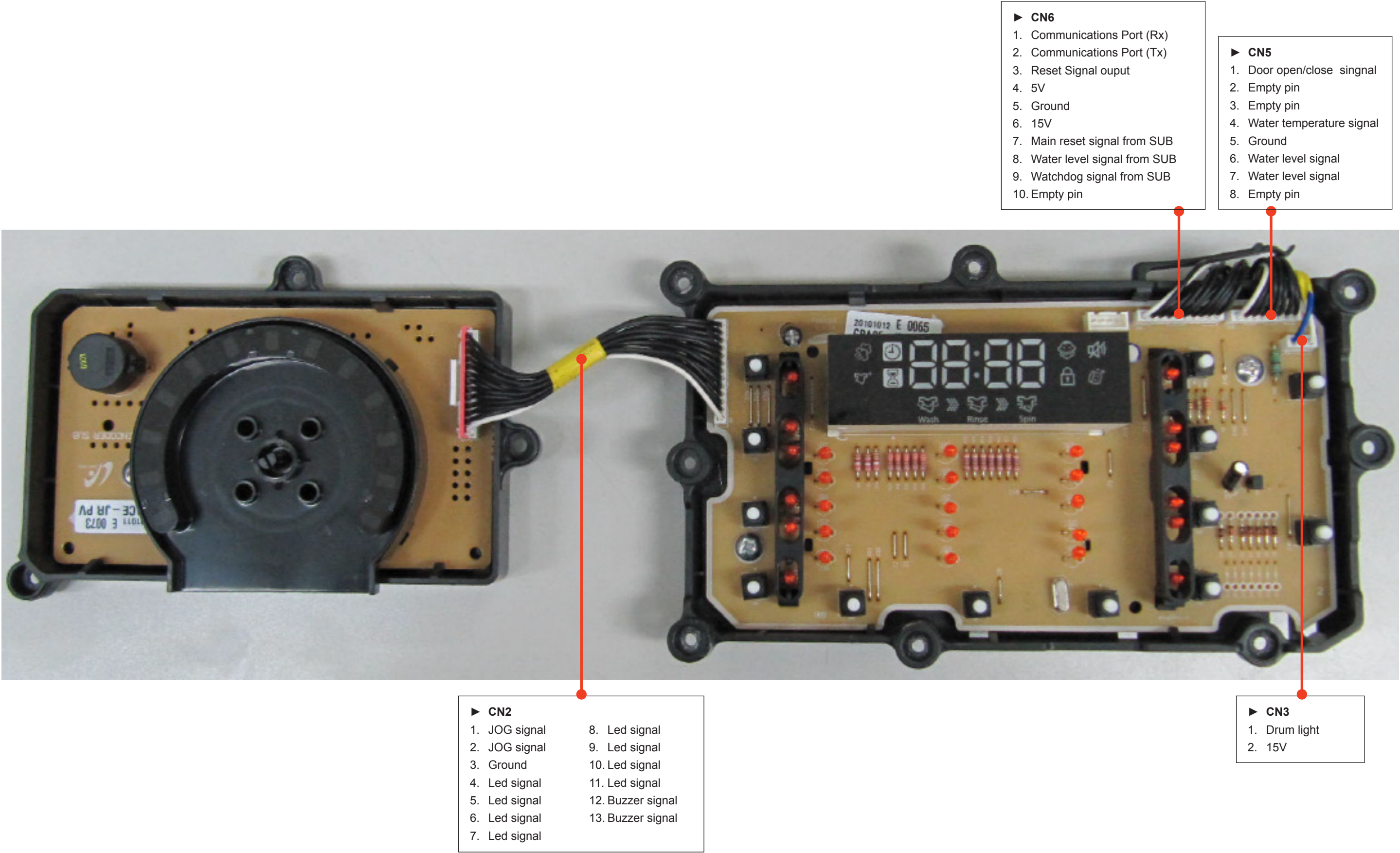
- **CN2**
- 1. Drum light
 - 2. 15V

6-5. SUB PCB (WF511ABR/XAA)



Location	Part No.	Function	Description
1	BZ1	Buzzer Circuit	Be generated sound when the menu key is pressed or the encoder is operated, the menu is closed.
2	CN7	MAIN PBA Connection Port	For communications with main PBA.
3	CN6	Sensor input	Sensing the water level and water temperature.
4	CN2	Drum Light	Turn on when door is opened.
5	CN1	GRAPHIC PBA Connection Port	For communications with graphic PBA.

6-6. CONNECTOR PORT PART DETAILED MANUAL-SUB PCB (WF511ABR/XAA)

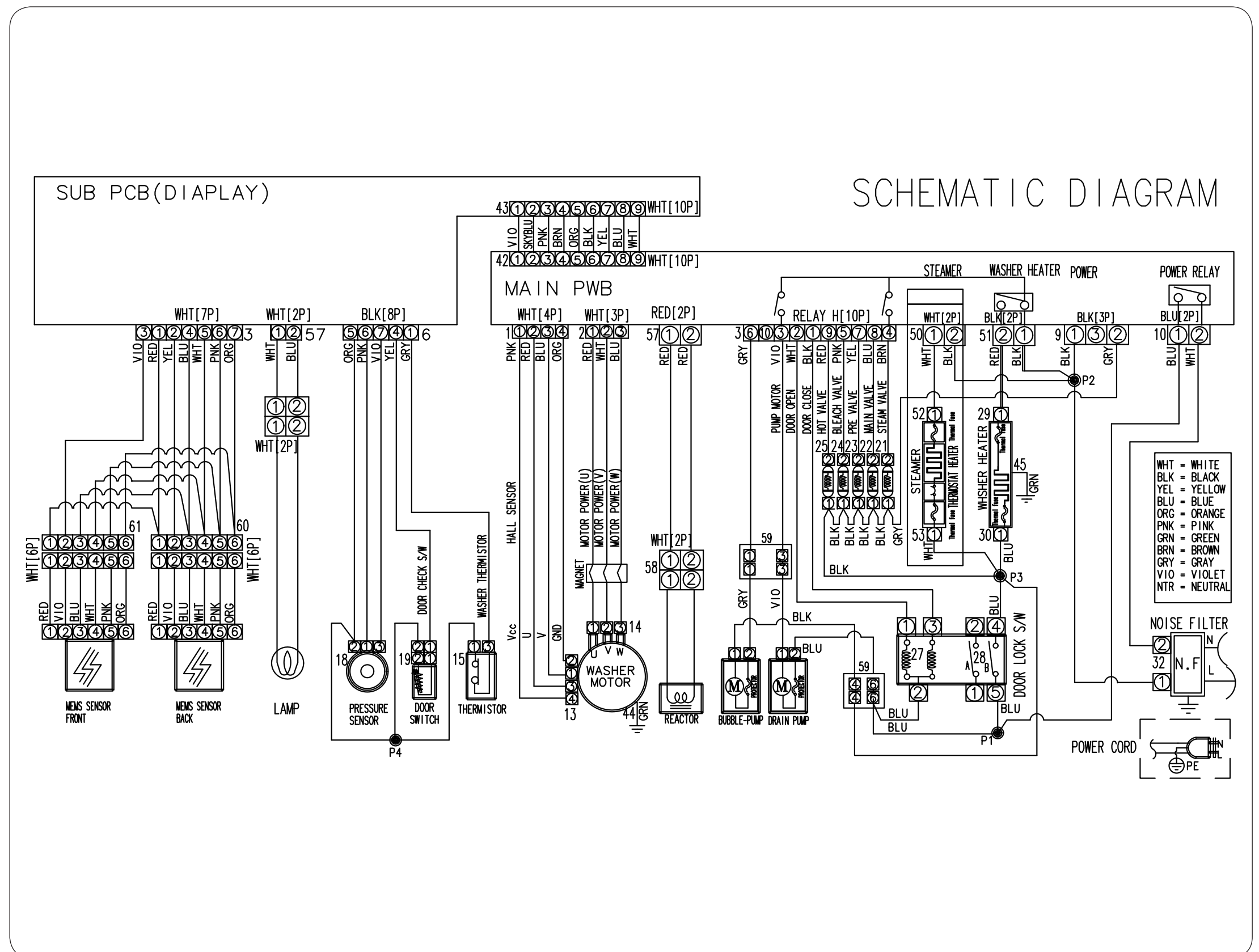


7. WIRING DIAGRAM

7-1. WIRING DIAGRAM (WF520ABP/XAA, WF520ABW/XAA)

■ REFERENCE INFORMATION

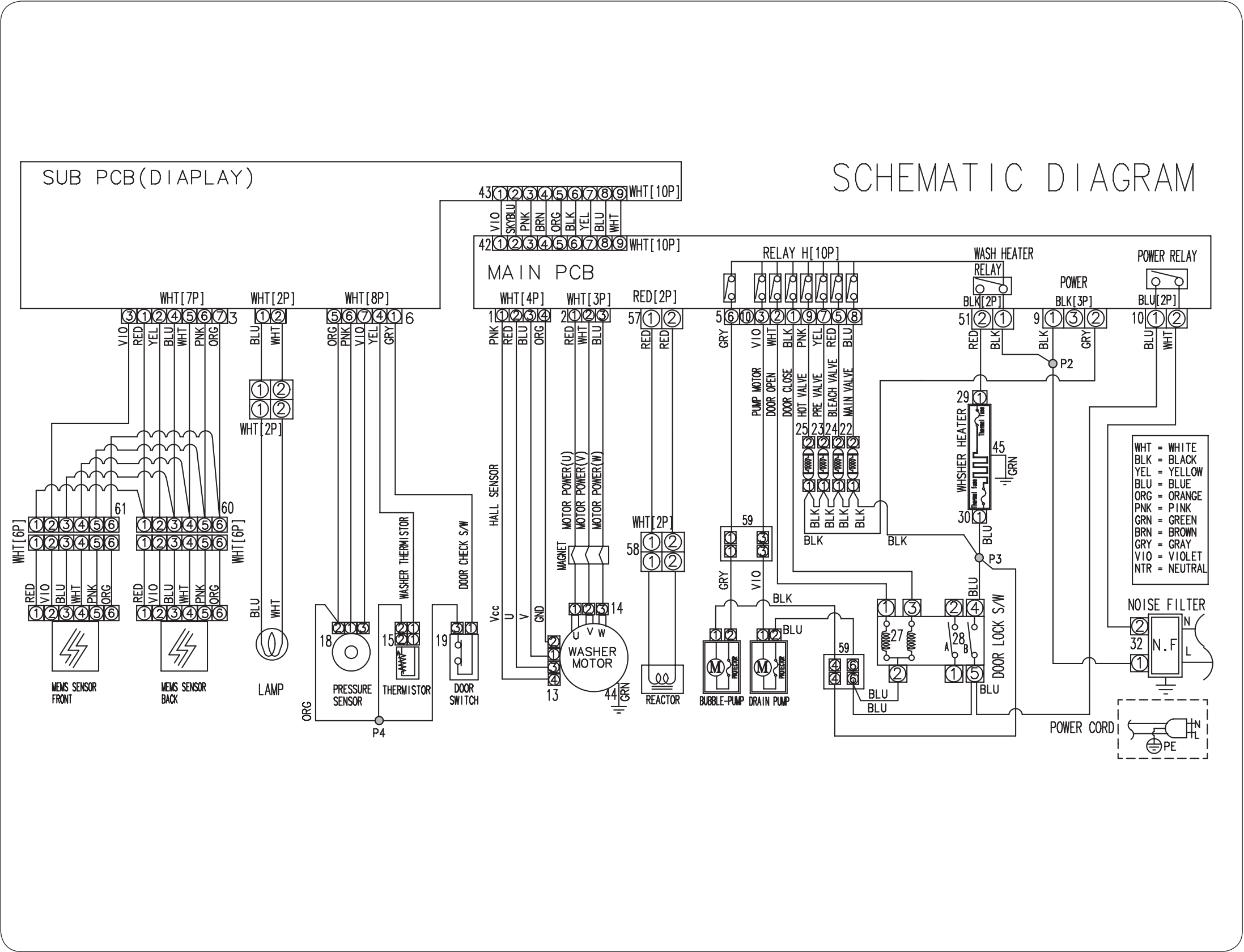
BLK	BLACK
BLU	BLUE
GRN	GREEN
GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW



7-2. WIRING DIAGRAM (WF511ABR/XAA)

■ REFERENCE INFORMATION

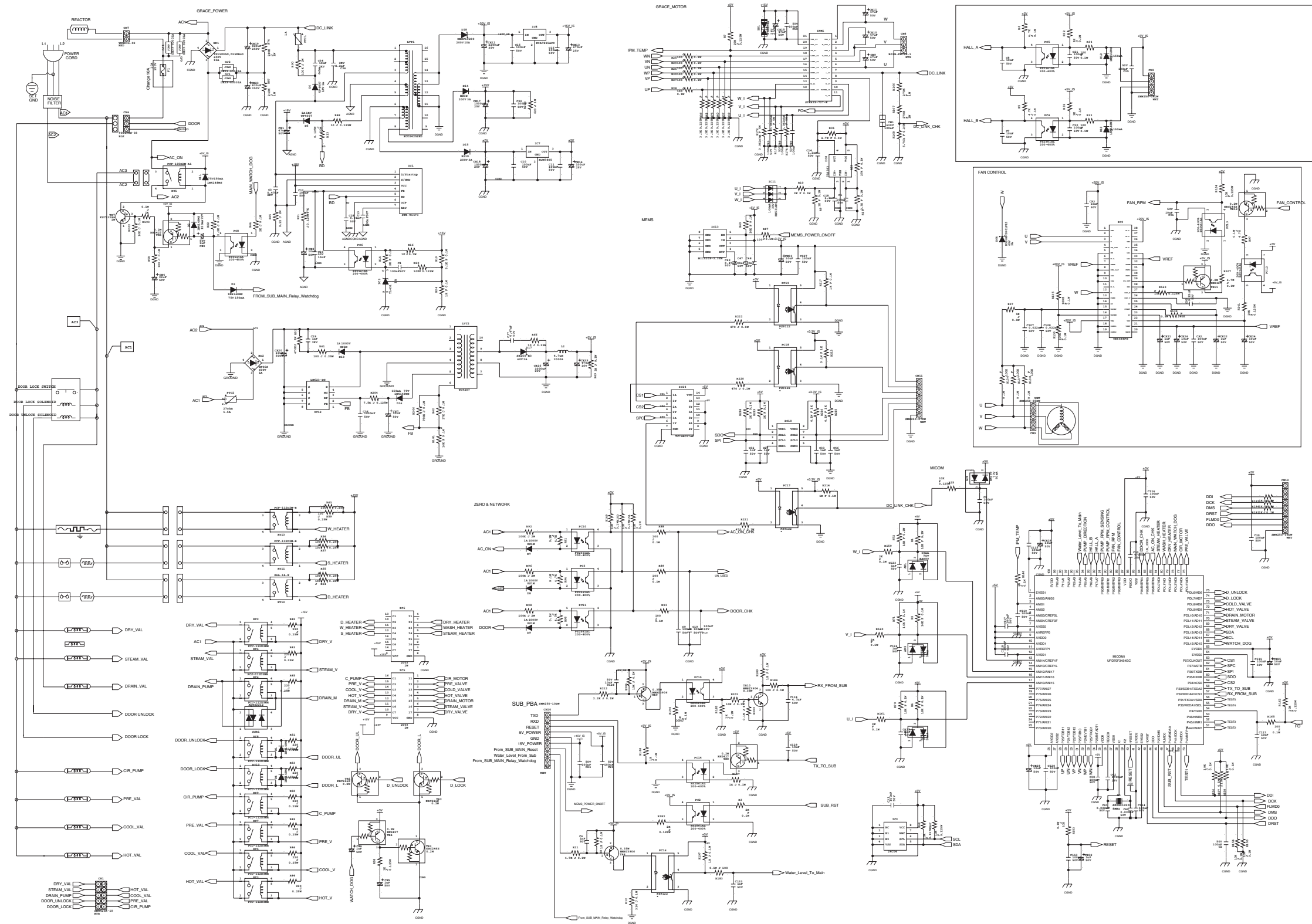
BLK	BLACK
BLU	BLUE
GRN	GREEN
GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW



8. SCHEMATIC DIAGRAM

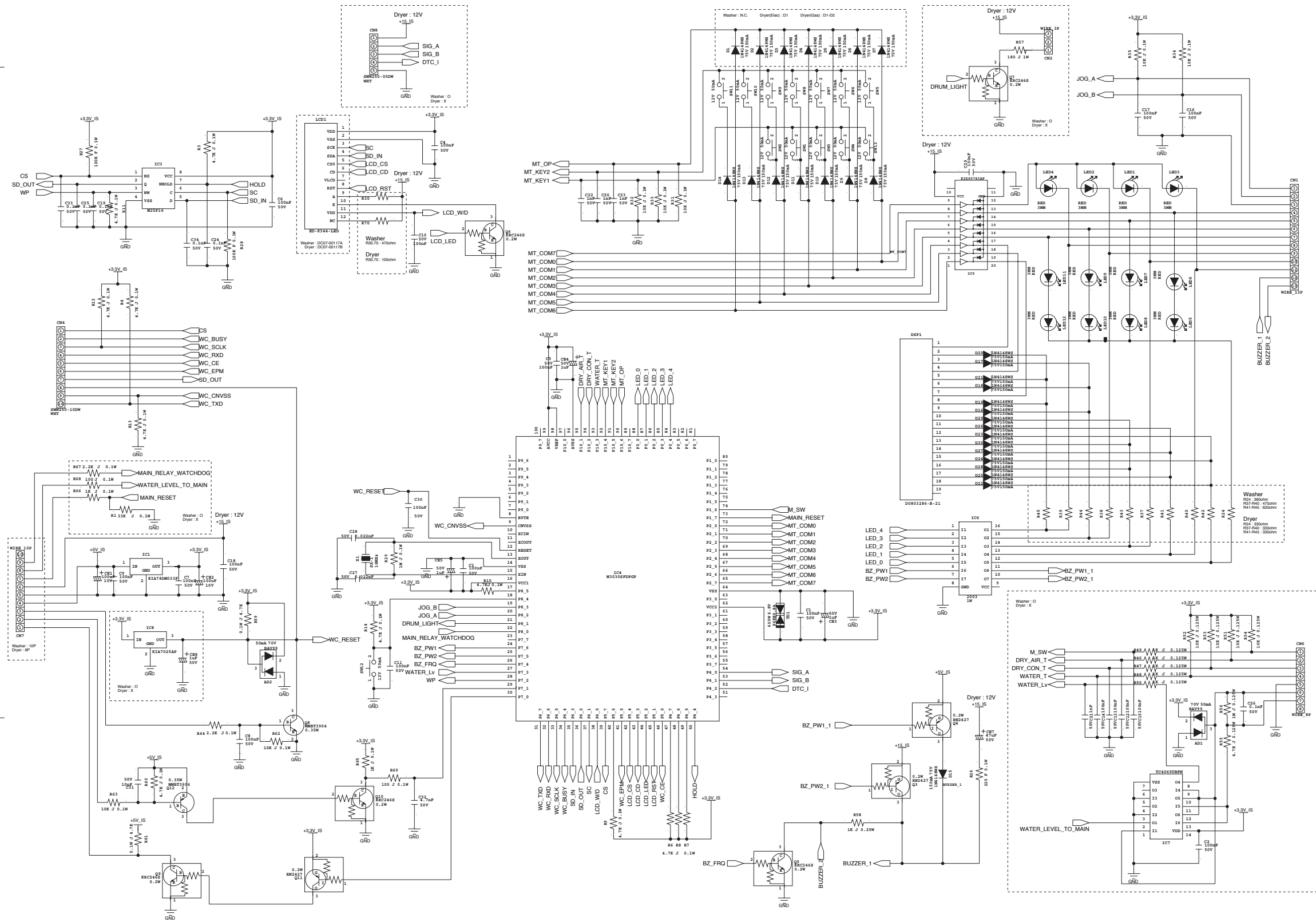
8-1. MAIN CONTROL

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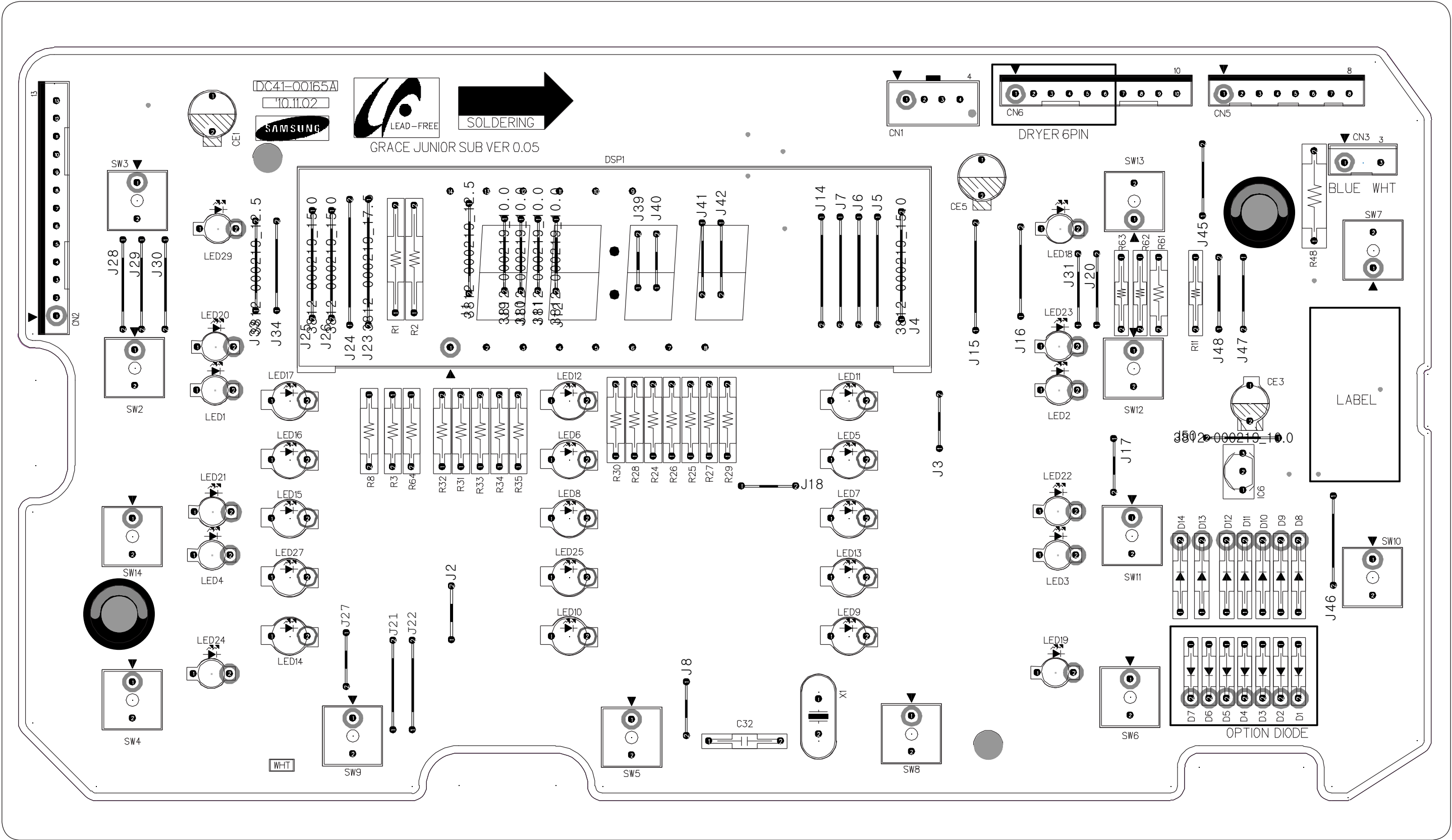
8-2. SUB CONTROL (LCD) - WF520ABP/XAA, WF520ABW/XAA

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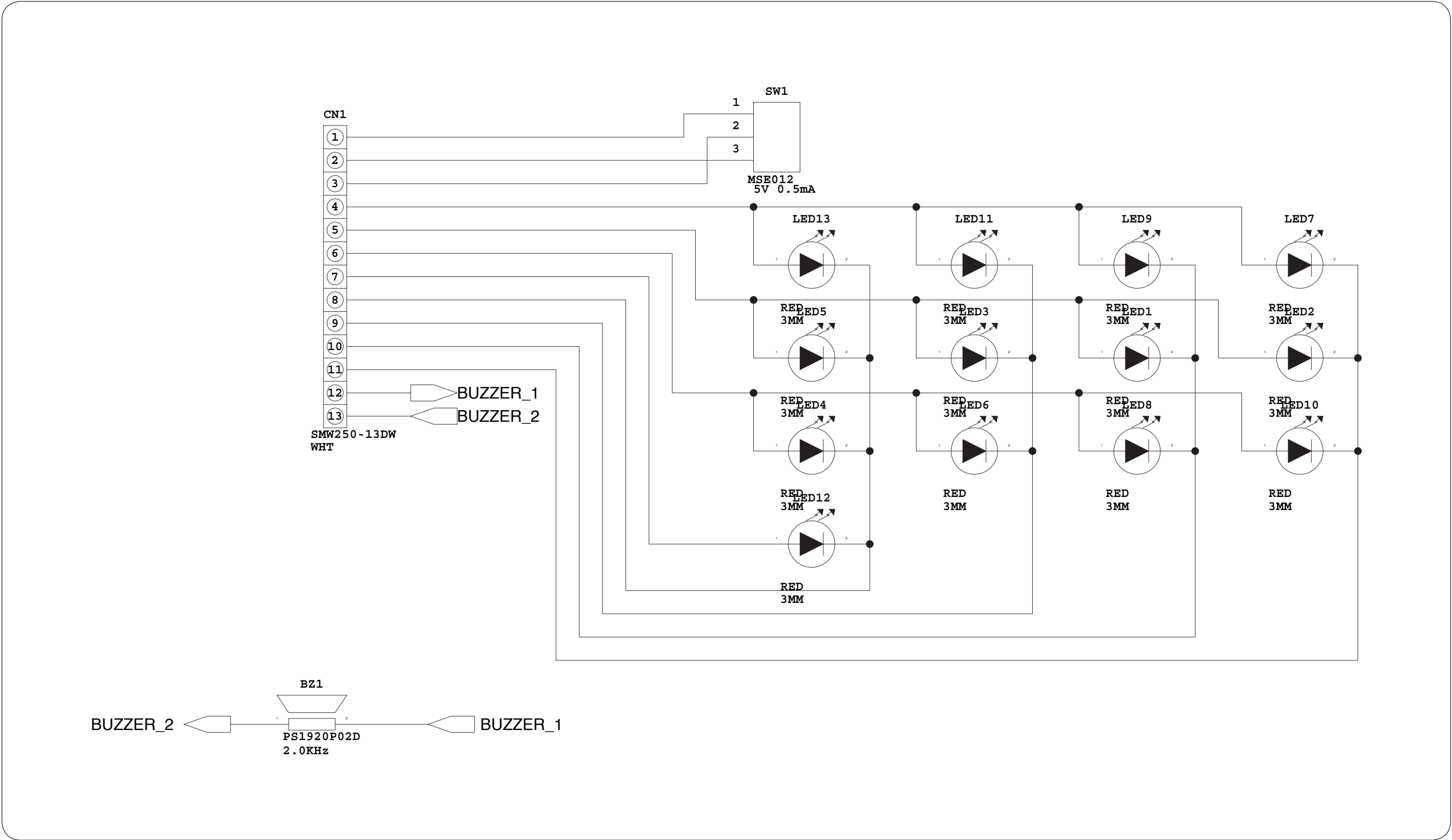
8-3. SUB CONTROL (LED) - WF511ABR/XAA

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8-4. SUB CONTROL (GRAPHIC)

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