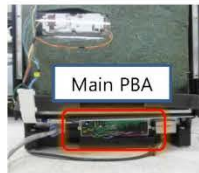
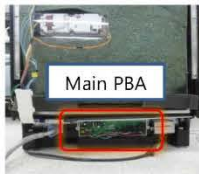
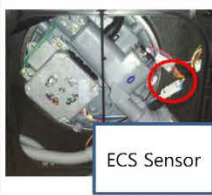


Error Code

Dishwasher

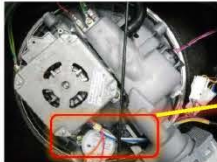
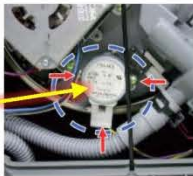
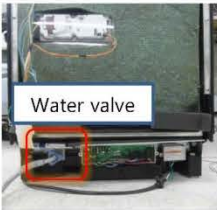
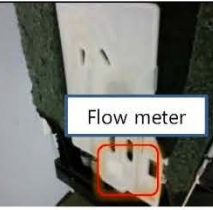
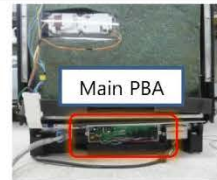
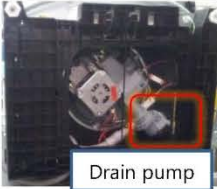
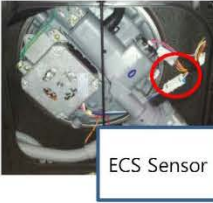


DW80F800

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
t E	Temperature sensor Error	Assy Sensor ECS(Thermistor), Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds	 Main PBA	 ECS Sensor
H E	Heater Error	Main Wire-Harness, Heater, Main PBA	When the temperature change is 4°C or less within the first 10 minutes after the heating starts		 Heater
1 E	High temperature Heating error	Assy Sensor ECS(Thermistor), Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.	 Main PBA	 ECS Sensor
9 E	Low-level water error	Assy case brake, Assy Sensor ECS(Thermistor), Main PBA	1.When high level sensor is not detected after water supply was done, drain & refill the water. After then, if high level sensor is not detected again, this error is occurred. 2.When low level sensor is detected over 5 seconds during wash operation, this error is occurred.	 Case brake	 ECS Sensor

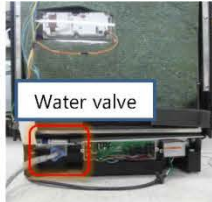
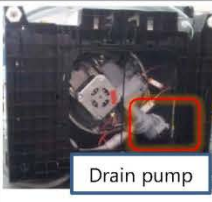
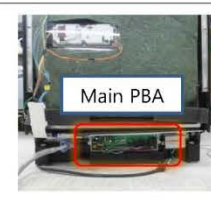
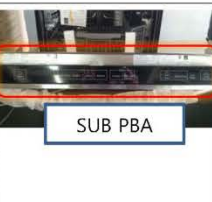
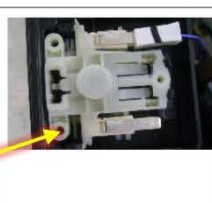
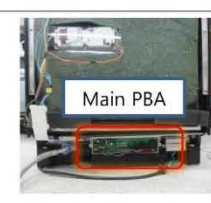


DW80F800

P E	Half load function error	Micro SW, Main PBA, Distributor motor	When micro s/w is not detected for over 30 seconds after the Distributor motor starts		
4 E	Water supply error	Main PBA, Water supply valve, Flow Meter	1. When the pulse of 100 or less is detected even 73 seconds after the water supply 2. When flow meter pulse is 5 or less for 13 seconds after the water supply starts 3. When the water supply does not complete 6 minutes after the water supply starts.		
3 E	High temperature Water supply error	Assy Sensor ECS(Thermistor), Main PBA	When 80°C or above is detected during water supply		
5 E	Drain error	Drain pump, Assy Sensor ECS(Thermistor), Main PBA	When OFF status of Low Level S/W is not detected within 3 minutes during the drain.		

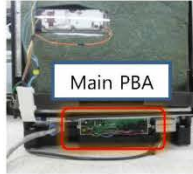
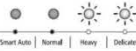
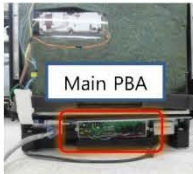


DW80F800

o E	Over-level water error	Case brake, Flow Meter, Main PBA, Water supply valve	When overflow detection AD data is 3.5V or below for 3 seconds		
L E	Leakage	Each hose connection, Sump and Tub assembly, Drain Pump assembly, Main PBA	When leakage sensor detects 3.5V or below for 3 seconds		
b E	Button error	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds		
d E	Door open warning	Door lock switch, Main PBA	When door is open in washing period		
C E	Communication error	Main PCB, Sub PCB	Communication error between Micom in sub PBA and Touch IC in touch PBA or between Micom in sub PBA and Micom in main PBA.		

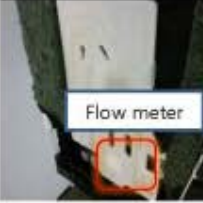
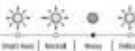
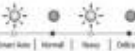


DW80F600

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
	Temperature sensor Error - Smart auto + Heavy + Delicate	Assy Sensor ECS(Thermistor), Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds		
	Heater Error - Heavy + Delicate	Main Wire-Harness, Heater, Main PBA	When the temperature change is 4°C or less within the first 10 minutes after the heating starts		
	High temperature Heating error - Smart Auto + Normal	Assy Sensor ECS(Thermistor), Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.		
	Low-level water error - Smart auto + Normal + Heavy	Assy case brake, Assy Sensor ECS(Thermistor), Main PBA	1.When high level sensor is not detected after water supply was done, drain & refill the water. After then, if high level sensor is not detected again, this error is occurred. 2.When low level sensor is detected over 5 seconds during wash operation, this error is occurred.		

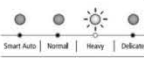
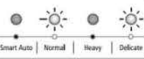
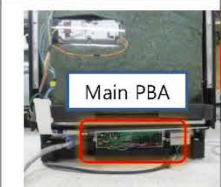
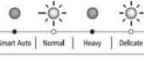
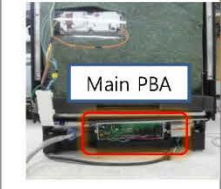


DW80F600

	Water supply error - Smart auto	Main PBA, Water supply valve, Flow Meter	1. When the pulse of 100 or less is detected even 73 seconds after the water supply 2. When flow meter pulse is 5 or less for 13 seconds after the water supply starts 3. When the water supply does not complete 6 minutes after the water supply starts.		
	High temperature Water supply error - Smart auto + Normal + Delicate	Assy Sensor ECS(Thermistor), Main PBA	When 80°C or above is detected during water supply		
	Drain error - Delicate	Drain pump, Assy Sensor ECS(Thermistor), Main PBA	When OFF status of Low Level S/W is not detected within 3 minutes during the drain.		
	Over-level water error - Smart auto + Heavy	Case brake, Flow Meter, Main PBA, Water supply valve	When overflow detection AD data is 3.5V or below for 3 seconds		



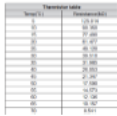
DW80F600

	Leakage - Heavy	Each hose connection , Sump and Tub assembly, Drain Pump assembly , Main PBA	When leakage sensor detects 3.5V or below for 3 seconds		
	Button error - Normal + Delicate	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds		
	Door open warning - Normal + Delicate	Door lock switch, Main PBA	When door is open in washing period		
	Communication error - All LED	Main PCB, Sub PCB	Communication error between Micom in sub PBA and Touch IC in touch PBA or between Micom in sub PBA and Micom in main PBA.		

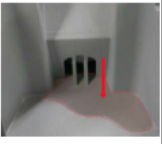


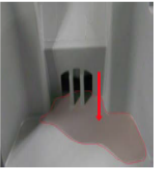
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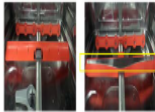
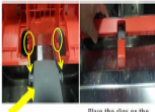
Code	Item	Check Parts	Trouble contents	SVC TIP	Image-1	Image-2
4 E	Water supply error	water supply valve	- When the number of detected water supply pulses is less than 10 within 20 seconds after water is supplied. - When the number of detected water supply pulses is less than 100 within 80 seconds after water is supplied. - When the target water level is not reached within 5 minutes after water is supplied.	- If the dishwasher is displaying error code 4E, it can be caused by the water supply valve. . Confirm there is adequate hot water pressure from the kitchen faucet . Confirm the water supply hose to the dishwasher is not kinked or crimped . Confirm the hot water supply valve to the dishwasher is fully open - Check whether the Water Valve is operating normally in the Main PBA. . Check the Water Valve Relay in Main PBA. : Check the voltage between the Black wire (Number 9) of the CN202 and the Black wire of the CN101 connector. Normal: 110 ~ 120V (while operating) ✕ - Faulty: Replace the Main PBA assy, Normal: Replace the Water Valve		
5 E	Drain error	Main PBA, Inverter PBA	In case the power of the drain pump power exceed 20W in the operation of the Drain pump even if it operates with 3 times.	- Check whether there is any foreign material in the Drain Hose and Drain Pump. - Check whether the Drain Pump coil is conductive. (Remove the connector before measuring.): Approx. 88Ω ±7% (81.8~84.2) . Faulty: Replace the Drain Pump. - Check the operating AC voltage of the Inverter PBA CN5 connector • Normal: 110V ~ 120V (while operating) . Faulty: Replace the Main PBA assy		

P E	Half load error	synchronous motor	- When the location is not detected for 2 minutes after the synchronous motor operation. (In Test Mode, when the location is not detected for 1 minute.) - In the cleaning section, when the location is not detected for 3 minutes.	- Check the connections for the Distributor Motor and Micro Switch connectors. - Reconnect the Distributor Motor and Micro Switch connectors - Check whether the coil in Distributor Motor is conductive. - Remove the connectors before measuring. - Normal: Approx. 3.6 ~ 4.0kΩ - Check the position sensing operations when turning the Micro Switch on and off.(Use n5 Service test mode.) Check the conduction between the brown wire and the Violet wire. • Micro switch On: Short • Micro switch Off: Open - Micro Switch sign alters in ON/OFF state. - It is NG if keep in ON or OFF state for 120 seconds. * Do not supply with water and test. - Faulty: Replace the Micro Switch for sensing positions. - Normal: Replace the valve distributor and CAM switch.		
t E	Thermistor Error	Thermistor	- When the temperature sensor data output is equal to or greater than approximately 4.5V or is equal to or less than approximately 0.2V. - When the water temperature is detected as equal to or less than - 30°C for 30 seconds in succession during the cleaning the heater operation.	- Check whether the Thermistor is operating normally. - Measure the voltage between both ends of the Thermistor. • Normal: 0.05 to 4.95V - Measure the resistance between both ends of the Thermistor : Remove the connector before measuring. (See the Table right.) - Faulty: Replace the Thermistor. - Normal: Replace the Main PBA assy		

HE-1	Heater error	Heater	When the temperature sensor data output is equal to or greater than approximately 4.5V or is equal to or less than approximately 0.2V. - When the water temperature is detected as equal to or less than - 30□ for 30 seconds in succession during the cleaning the heater operation	- Check the resistance between both ends of the Heater. . Check the resistance between both ends of the Heater directly, or check the resistance between the red wire of the Heater Relay and the black and yellow wires of the Power Relay, respectively. • Normal : Approx. 12.14 ~ 14.16Ω • Check after disconnect circuit breaker or power cable. . Faulty: Replace the Heater. - Check the connections of the Heater Relay in Main PBA. . Check the voltage between the Red wire of the Heater Relay on the base and the Black wire of the CN101 connector. . Normal : 110 ~ 120V (while operating) . Reconnect the Heater Relay connectors.		
HE	Heater Overheat error	Heater	When the temperature is measured as equal to or greater than 80°C for 3 seconds.			
bE2	Key input error	Sub PBA	When the button is pressed and held for 30 continuous seconds or longer.	- Check whether there is condensation on the PBA. . CN103 of Display Control Module connector . CON100 TOUCH Modul . Faulty : Remove any condensation and moisture. . Normal : Replace the Control Panel assy. (Display Control Module, Touch Module, Sub Wire)		
bE3	Key input error	Sub PBA	When IC communications between the Sub PBA and the touch button fails.	- Check whether there is condensation on the PBA. . CN103 of Display Control Module connector . CON100 TOUCH Modul . Faulty : Remove any condensation and moisture. . Normal : Replace the Control Panel assy. (Display Control Module, Touch Module, Sub Wire)		

AE	Main-Sub PBA Communication error	Sub PBA	When communications between the main PBA and the sub PBA fails for 24 seconds. (In Test Mode, communication fails for 6 seconds.)			
AE6	BLDC Motor Communication error	main PBA or Inverter PBA	When the response is not received from inverter PBA for 3 seconds, Inverter RELAY OFF for 2 minutes. After repeated 3 times, display the error code	- Check the connections between Main PBA CN401 connector and Inverter PBA CN1 connector . Reconnect the Main PBA CN401 connector and Inverter PBA CN1 connector - That Error is produced continuously after method 1 confirmation. . Replace Inverter PBA - That Error is produced continuously after method 2 confirmation. . Replace: Main PBA		
LE	Water leakage		When the water leakage sensor data is equal to or less than 3V for 3 seconds.	- Check whether there is any trace of water leakage in the shutter. . Between connector of cover distribute low and hose . Check the Seal sump overlap		
OE	Overflow error	Case brake, Valve water	When the overflow sensor data is equal to or less than 3V for 5 seconds	Code is caused by blockage preventing the unit from draining properly. Fortunately, this can be resolved most of the time by cleaning the Fine Filter System and Sump in the dishwasher.		

1E	Motor BLDC error	Motor, Filter micro	- Power consumption of Circulation pump detected low water level for 1 continuous seconds while a water supply and wash is performed. 1) After the completion of the water supply. If a low level is detected, additional water is supplied for a predetermined period of time. If a low level is measured even after additional water is supplied, an 1E error occurs. 2) While a wash is performed. If a low level is detected, additional water is supplied for a predetermined period of time. If a low level is measured even after additional water is supplied twice, an 1E error occurs.E14	Code is caused by blockage preventing the unit from draining properly. Fortunately, this can be resolved most of the time by cleaning the Fine Filter System and Sump in the dishwasher.		
3E	Circulation Pump error	Circulation pump, Main PBA, Inverter PBA	□ Condition 1) - When Main receives the Circulation pump error from the inverter, stop the drive the motor and restart again. If Main receive the motor error 11 times, turn off the motor for 5 minutes. At the third rest time, Error occurs. (When an error occurs, Heater is stopped immediately. And Heater ON after operating the circulating motor 10 seconds.) □ Condition 2) - Washing(Rinsing) area : When Target rpm is 2600rpm or more and Circulation pump speed is 2400rpm or less continuously for three seconds, the operation is stopped. Retry 2 times in 3 seconds. When sensing 3 times, Inverter is turned off and retry in 5 minutes. At the third rest time, Error occurs. (If the condition of Low level water sensing, this error is	- Check whether there is any foreign material in the Circulation Hose and Circulation Pump. . Remove the foreign material in the Circulation Hose and Circulation Pump - Check the operating AC voltage of the Inverter PBA CN5 connector • Normal : 110V ~ 120V (while operating) . Replace the Inverter PBA assy. - Check the operating LED(red) of the inverter PBA • Normal : Fully turn-on (while operating) . Replace the Inverter PBA assy.		

4E5		Water valve	When the number of detected water supply pulses are 200 at the Non-water supply mode. → Repeats water valve on(1seconds) / off(1seconds) 2 times			
9E1		High or Low voltage is supplied.	If blackout or DC Link voltage is high or low voltage conditions, switches to stop mode (abnormal voltage).			
7E	Motor vane error	- motor gear is out of order. - sensor vane is out of order. - When the vane is blocked.	Case1) When the reset position sensing for 10 seconds, vane motor 1 sec Off and re-operation. Error occurs after retry three times. Case2) When the reset position sensing for 25 seconds. Error occurs after retry three times. Case3) Vane position is the time from initial position to initial position in 21 seconds or less, the error occurs.	Check Water Wall Vane Position Verify that the Water Wall Vane is in the correct position. The Water Wall logo should face to the front. If the Water Wall vane is installed incorrectly, instruct the customer to lift up on the Water Wall vane to remove it. Then turn it around and reseal it on the grey shuttle on the Water Wall rail.	 Incorrect Position Correct Position	 Grey Shuttle and Water Wall Clips Place the clips on the grey shuttle and push down.

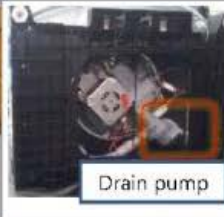
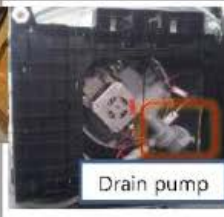


DW60J3020

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
	Temperature sensor Error - Auto + Heavy + Quick	Thermistor sensor, Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds.		
	Heater Error - Heavy + Quick	Main Wire-Harness, Heater, Main PBA	When the temperature change is less than 4°C within 10 minutes after start of heating 20 seconds.		
	High temperature Heating error - Auto + Normal	Thermistor sensor, Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.		
	Water supply error - Auto	Main PBA, Water supply valve, Flow Meter.	1. When the cold water flow pulse is less than 5 for 13 seconds after the water supply starts. 2. When the water supply does not complete 60 minutes after the water supply starts.		

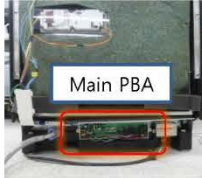
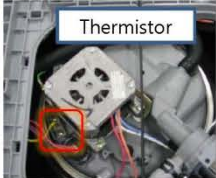
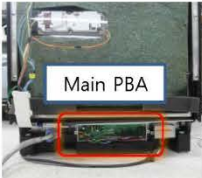
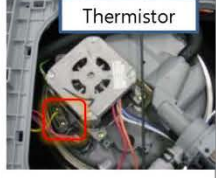
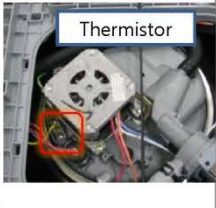


DW60J3020

	Over-level water error - Auto + Heavy	Case brake, Drain pump, Main-PBA, Case Brake, Water Supply valve	1. When overflow detection AD data is less than 3V for 5 seconds. 2. 15 seconds after Door close. 3. When stop the Main motor during the wash operation : 15 seconds after stop. (However, the stop for the drain is to be excluded.) 4. Before water supply step is completed, if the Over Flow is detected 5 seconds : Drain for 2 minutes without check occurs. When drain is complete, re-water supply and the same operation repeated three times and 4th check occurs.		
	Leakage error - Heavy	Each hose connection , Sump and Tub assembly, Drain Pump assembly , Main PBA	When leakage sensor detects 3.5V or below for 3 seconds		
	Button error - Normal + Quick	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds		



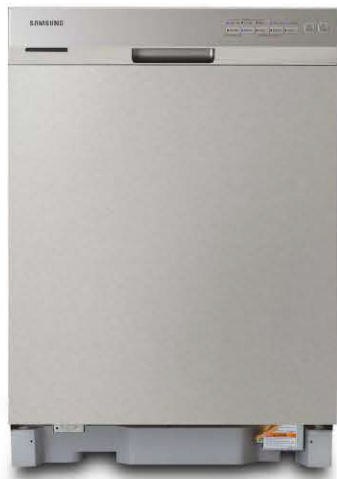
DW7933

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
	Temperature sensor Error - Heavy + Quick + Smart auto	Thermistor, Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds		
	Heater Error - Heavy + Quick	Main Wire-Harness, Heater, Main PBA	When the temperature change is 4°C or less within the first 10 minutes after the heating starts		
	High temperature Heating error - Normal + Smart auto	Thermistor , Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.		
	Low-level water error - Normal + Heavy + Smart auto	Assy case brake, Thermistor , Main PBA	1.When high level sensor is not detected after water supply was done, drain & refill the water. After then, if high level sensor is not detected again, this error is occurred. 2.When low level sensor is detected over 5 seconds during wash operation, this error is occurred.		

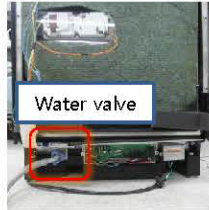
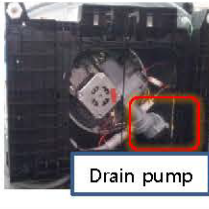
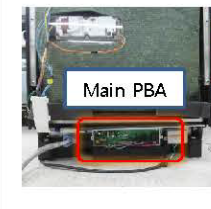
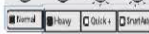
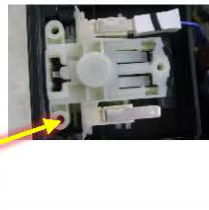


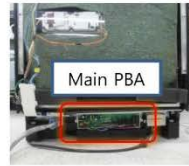
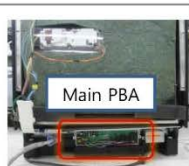
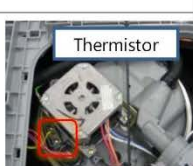
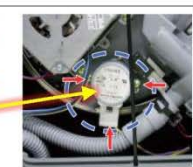
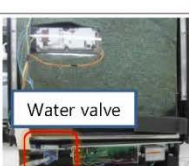
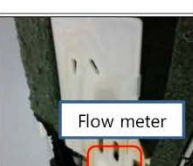
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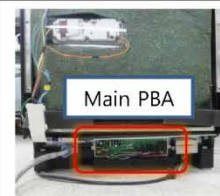
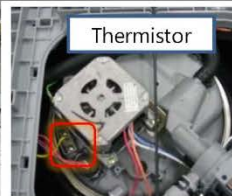
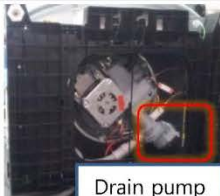
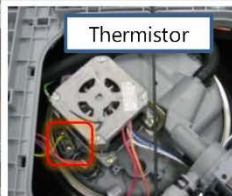
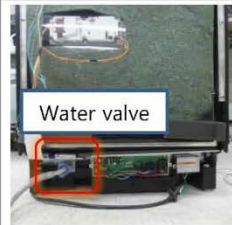
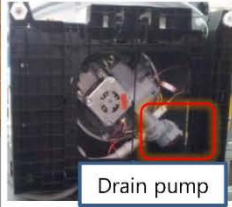
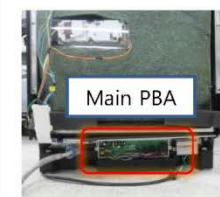
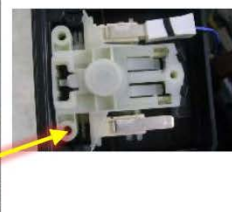
	Water supply error - Smart auto	Main PBA, Water supply valve , Flow Meter	1. When the pulse of 100 or less is detected even 73 seconds after the water supply 2. When flow meter pulse is 5 or less for 13 seconds after the water supply starts 3. When the water supply does not complete 6 minutes after the water supply starts.	Water valve	Flow meter
	High temperature Water supply error - Normal + Quick + Smart auto	Thermistor, Main PBA	When 80°C or above is detected during water supply	Main PBA	Thermistor
	Drain error - Quick	Drain pump, Thermistor, Main PBA	When OFF status of Low Level S/W is not detected within 3 minutes during the drain.	Drain pump	Thermistor

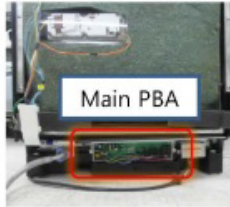
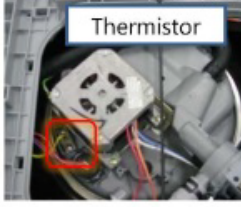
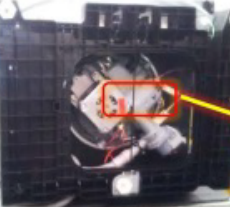
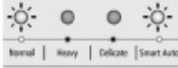
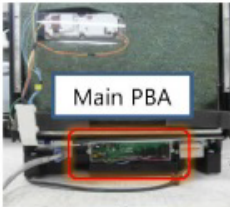
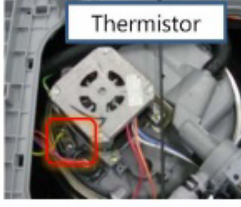
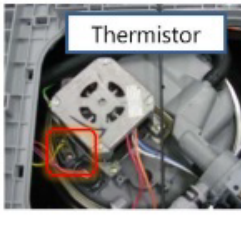
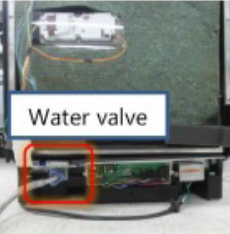
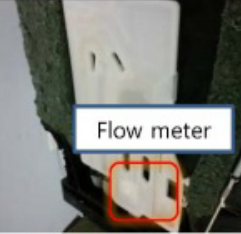


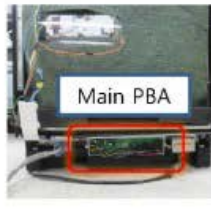
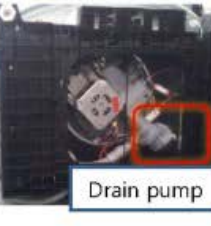
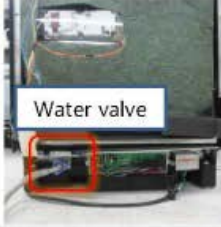
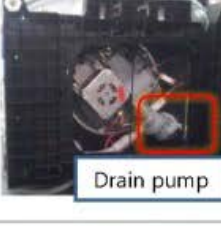
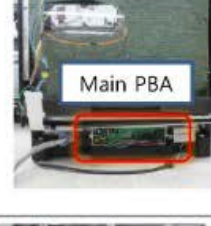
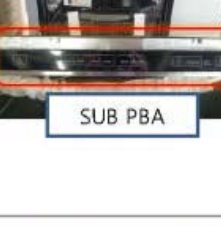
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	Over-level water error - Heavy + Smart auto	Case brake, Flow Meter, Main PBA, Water supply valve	When overflow detection AD data is 3.5V or below for 3 seconds		
	Leakage - Heavy	Each hose connection , Sump and Tub assembly, Drain Pump assembly , Main PBA	When leakage sensor detects 3.5V or below for 3 seconds		
	Button error - Normal + Quick	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds		
	Door open warning - Quick + Smart auto	Door lock switch, Main PBA	When door is open in washing period		

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
t E	Temperature sensor Error	Thermistor, Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds		
H E	Heater Error	Main Wire-Harness, Heater, Main PBA	When the temperature change is 4°C or less within the first 10 minutes after the heating starts		
1 E	High temperature Heating error	Thermistor, Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.		
9 E	Low-level water error	Assy case brake, Thermistor, Main PBA	1. When high level sensor is not detected after water supply was done, drain & refill the water. After then, if high level sensor is not detected again, this error is occurred. 2. When low level sensor is detected over 5 seconds during wash operation, this error is occurred.		
P E	Half load function error	Micro SW, Main PBA, Distributor motor	When micro s/w is not detected for over 30 seconds after the Distributor motor starts		
4 E	Water supply error	Main PBA, Water supply valve, Flow Meter	1. When the pulse of 100 or less is detected even 73 seconds after the water supply 2. When flow meter pulse is 5 or less for 13 seconds after the water supply starts 3. When the water supply does not complete 6 minutes after the water supply starts.		

3 E	High temperature Water supply error	Thermistor, Main PBA	When 80°C or above is detected during water supply	 Main PBA	 Thermistor
5 E	Drain error	Drain pump, Thermistor, Main PBA	When OFF status of Low Level S/W is not detected within 3 minutes during the drain.	 Drain pump	 Thermistor
o E	Over-level water error	Case brake, Flow Meter, Main PBA, Water supply valve	When overflow detection AD data is 3.5V or below for 3 seconds	 Case brake	 Water valve
L E	Leakage	Each hose connection , Sump and Tub assembly, Drain Pump assembly , Main PBA	When leakage sensor detects 3.5V or below for 3 seconds	 TUB	 Drain pump
b E	Button error	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds	 Main PBA	 SUB PBA
d E	Door open warning	Door lock switch, Main PBA	When door is open in washing period	 Door lock switch	 Door lock switch

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
	Temperature sensor Error - Heavy + Delicate + Smart auto	Thermistor, Main PBA	When 0.2V or below, or 4.5V or above is maintained for over 3 seconds		
	Heater Error - Heavy + Delicate	Main Wire-Harness, Heater, Main PBA	When the temperature change is 4°C or less within the first 10 minutes after the heating starts		
	High temperature Heating error - Nomal + Smart auto	Thermistor, Main PBA	When the temperature of the Thermistor is 80°C or above for more than 3 seconds.		
	Low-level water error - Normal + Heavy + Smart auto	Assy case brake, Thermistor, Main PBA	1. When high level sensor is not detected after water supply was done, drain & refill the water. After then, if high level sensor is not detected again, this error is occurred. 2. When low level sensor is detected over 5 seconds during wash operation, this error is occurred.		
	Water supply error - Smart auto	Main PBA, Water supply valve, Flow Meter	1. When the pulse of 100 or less is detected even 73 seconds after the water supply 2. When flow meter pulse is 5 or less for 13 seconds after the water supply starts 3. When the water supply does not complete 6 minutes after the water supply starts.		

	High temperature Water supply error - Normal + Delicate + Smart auto	Thermistor, Main PBA	When 80°C or above is detected during water supply		
	Drain error - Delicate	Drain pump, Thermistor, Main PBA	When OFF status of Low Level S/W is not detected within 3 minutes during the drain.		
	Over-level water error - Heavy + Smart auto	Case brake, Flow Meter, Main PBA, Water supply valve	When overflow detection AD data is 3.5V or below for 3 seconds		
	Leakage - Heavy	Each hose connection, Sump and Tub assembly, Drain Pump assembly, Main PBA	When leakage sensor detects 3.5V or below for 3 seconds		
	Button error - Normal + Delicate	Sub PBA in control panel, Main PBA	When the button is pressed continuously for over 10 seconds		
	Door open warning - Delicate + Smart auto	Door lock switch, Main PBA	When door is open in washing period		