WASHING MACHINE SERVICE MANUAL



MIDEA MF210 Series

MODEL:

MFL100-M1415BM/H01EPW-EU(NA30)

CAUTION:

READ THIS SERVICE MANUAL CAREFULLY TO DIAGNOSE TROUBLES CORRECTLY BEFORE OFFERING SERVICE.
CONTACT WITH YOUR SERVICE CENTER IF HAVE PROBLEM.

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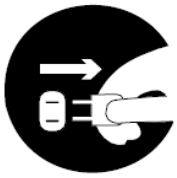
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UNPLUG POWER



WARNING

• Unplug power cord for the work such as disassembling which is not unnecessary to power on . Do not hold the plug by a wet hand.
Failing to unplug may cause an electric shock.

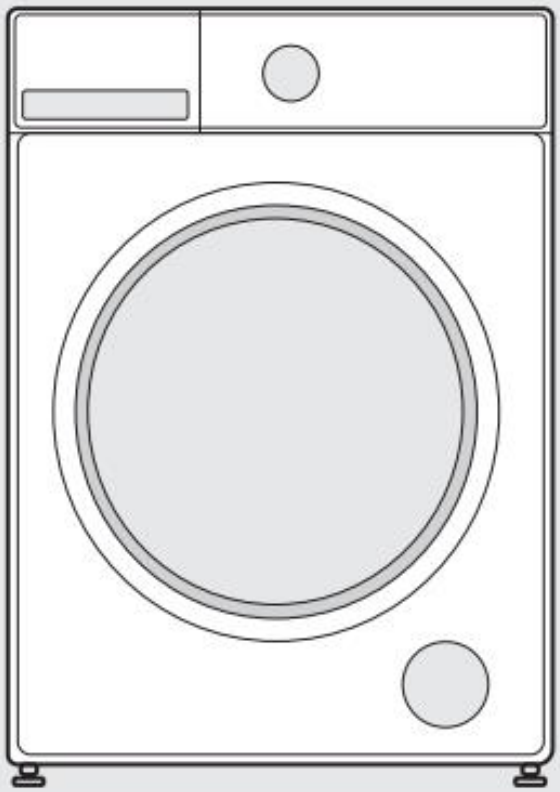
IMPORTANT SAFETY NOTICE

This service information is intended for individuals possessing adequate backgrounds of electrical, electronic and mechanical experience.
Any attempt to repair this appliance may result in personal injury or property damage.
The manufacturer or seller can not be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

1 USER MANUAL

NOTE:
Please check the user manual about the installation，operation，and spec etc.

Midea



Washing Machine

Download the app & activate product

Smart Home

SmartHome

USER MANUAL

MFL100-M1415BM/H01EPW-EU(NA30)

Warning notices: Before using this product, please read this manual carefully and keep it for future reference.
The design and specifications are subject to change without prior notice for product improvement.
Consult with your dealer or manufacturer for details.
The diagram above is just for reference. Please take the appearance of the actual product as the standard.

2 WIRING DIAGRAM / PCB LAYOUT / PROGRAM CHART

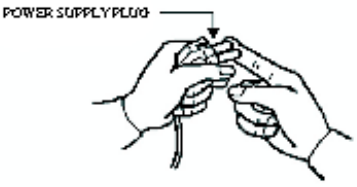
During the failure diagnosing and changing components, please do it as following:

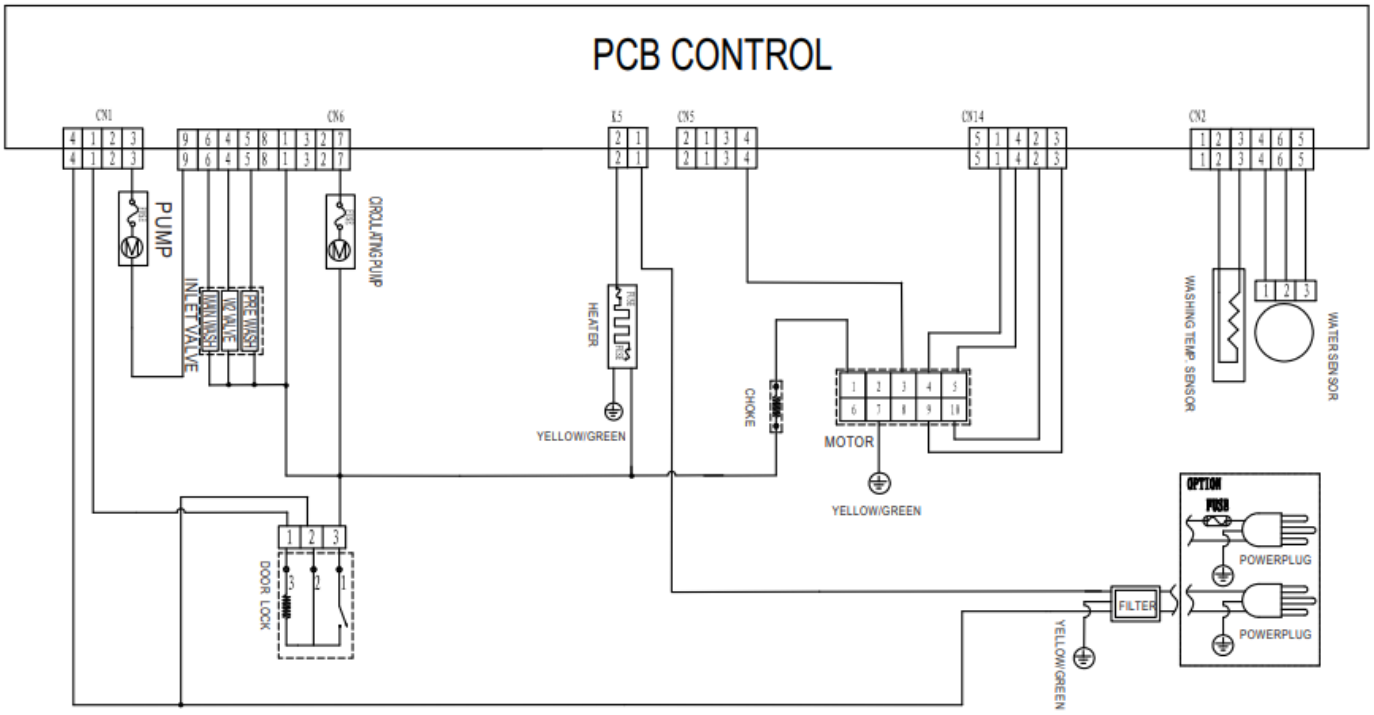
1)There is some static harm to the electrical parts from colophony in the washing machine or humans. So it is better to eliminate the potential static by grounding the humans or touching the plugs.

2)The rated voltage of the SCR in PCB is 220-240V, so it's possible to be electrical shock. Please take care while strong and weak electricity is alternative.

3)The design of PCB is out of failure, so prohibit to Replace the PCB panel according to its alarm. Please do it according to the failure diagnose program.

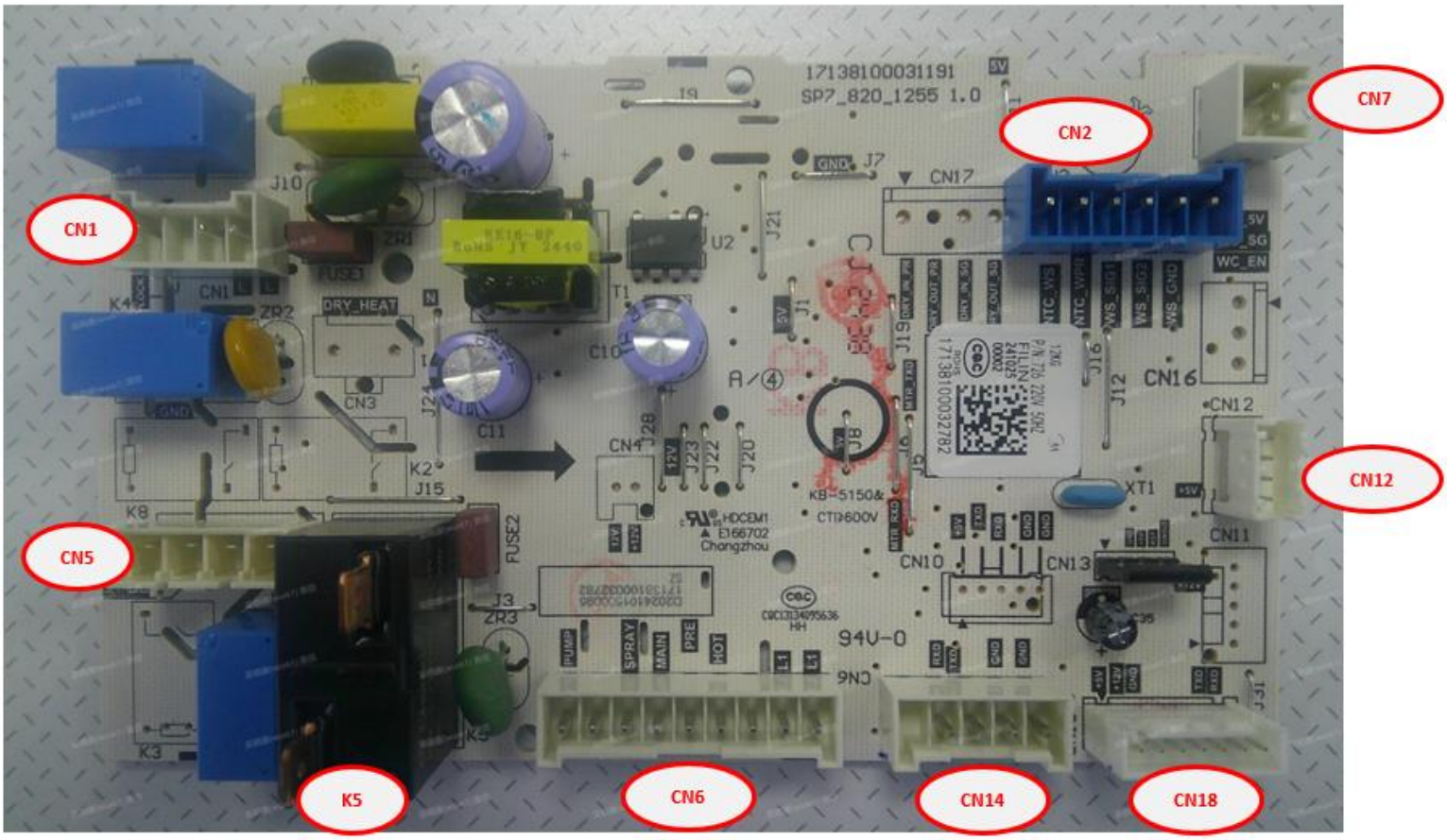
4.2 The circuit program





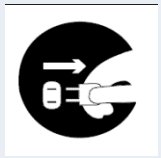
2 WIRING DIAGRAM / PCB LAYOUT / PROGRAM CHART

CN1. POWER L1(火线)/Door lock
CN5. inverter motor N
CN2. NTC for washing & Water sensor
CN12. Softener Detect/Detergent Detect
CN18. UI board
CN7. Drum light
CN14. Communication with Inverter motor
CN6. drain pump & Softener & Detergent & Main_valve & W2 & POWER L1
K5. POWER N & Wash heater



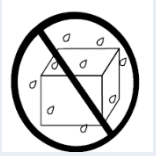
3 CAUTIONS FOR SAFETY

- Please observe the following notes for safety.

WARNING	
 **OUT OF CHILD**	• Advise the customer to keep children out of the work place. Children may be injured with a tool or a disassembled part.
 **UNPLUG POWER**	• Unplug power cord for the work such as disassembling which is not unnecessary to power on . Do not hold the plug by a wet hand. Failing to unplug may cause an electric shock.
 **USE REPAIR PARTS**	• Use the specified repair parts when repairing the product. Otherwise, a malfunction or a defect may occur. Also, a short circuit, ignition or other danger to the customer may occur.
 **CHECK INSULATION RESISTANCE**	• After repair, measure insulation resistance between the charging part (power cord plug) and the non-charging metallic part (ground) with an insulation resistance meter (500V). The resistance shall be 10M• or more. Failing to check the insulation resistance may cause a short circuit, electric shock or other diseases to the customer.
 **DO NOT MODIFY**	• Do not modify the product. An electric shock or ignition may occur.
 **DO NOT DISASSEMBLE AND REPAIR**	• Only a repair technician can disassemble and repair. An electric shock, ignition or malfunction may cause injury.

3 CAUTIONS FOR SAFETY

- Please observe the following notes for safety.

WARNING	
 **USE EXCLUSIVE SOCKET**	• Use an exclusive A socket for the washing machine. Otherwise, an electric shock or ignition may cause. Sharing the same socket with other instrument causes heating of a branch socket and result in a fire.
 **CONNECT GROUNDING WIRE**	• Connect the grounding wire. Failing to do so may cause an electric shock when a short circuit occurs. Consult an electric work shop or a sales shop.
 **DO NOT USE WET PLACE**	• Do not install in a bath room or a place exposed to wind or rain. An electric shock or a short circuit may cause a fire.
 **DO NOT SPLASH WATER**	• Do not pour or immerse electrical parts into water or liquid solution. An electric shock or ignition may occur.
 **REMOVE DUST**	• Wipe off dust adhered to the plug of power cord. Dust may cause a fire.

4 TEST MODE

4.1 BEFORE SERVICE CHECKING

1，Before servicing ask the customer what the trouble is.
2，Check the adjustments. (Power supply，Water Supply，Drain Hose, Removal of transit bolts etc..)
3，Check the troubles referring to the troubleshooting.
4，Decide service steps referring to disassembly instructions.
5，Then, service and repair.
6，After servicing, operate the appliance to see whether it works OK or NOT

4.2 TEST MODE



Before entering into service mode,

1) Make sure no water remains in the inner drum, if not, select drain only program to drain them out.
2) And also need close the door.

Entering into service mode

1) Turn on the machine and take turns [K8] [K10] [K8] [K10] buttons in 8s.
2) Press [K1] or [K2] to select test program.
3) Press [K12] to confirm your selection and start the selected test. If you want to go back to test selection interface, press the [K12] to cancel previous selection.

4 TEST MODE

LED Display	Check Target	Check Method	Check Item
t01	Version switchover	1. Press [K12] button display current switchover number 2. Press [K1]or[K2] to plus or minus switchover number 3. Press [K3] continuously till buzzer make a sound, that means the switchover setting is complete	LED displays "0x" x means current version
t02	Error code checking	1. Press [K12] button ,display shows "Err" 2. Press [K12] to show the last error code ,if there is no error code records in memory, Display shows "E00" 3. Press [k1] or [K2] switch the error codes record for next or last 4. Press [K3] and [K4] button at the same time continuously for 3s, all the error codes records deleted, LED displays E00.	LED displays "Err"
t03	Version information checking	1. Press [K12] button Enter into service mode, LED displays "cod" . 2. Press [K12], LED displays project number. 3. Press [K1] button, LED displays version number	LED displays version number
t04	UI Checking	1. Press [K12] button ,show "LEd" ,Press [K12] again ,the display show the UI Verson number, display control software Verson number buzzer make a sound. 2. Then come into the UI test mode, All led lights on until press [K1 K6]/[K2 K7]/[K3 K8]/[K4 K9]/[K5 K10]. 3. show " 1111" ~" 1555" to confirm each key is ok, Then press [K12] display shows " CyC" comes into Knob test mode, turn the knob left or right to confirm the lights are ok. 4. The display shows "End"	The whole LED display flashes(**This is factory testing, not be used during after-sale service**)
t05	Drain-pump checking	1. Press [K12] button ,Display shows "PUP" 2. Press [K12] to drain out all the remaining water. If all water drained out, LED displays "god" , and 6 minutes later ,if there is still water remains in it, LED displays "Err"	LED displays "PPt"

4 TEST MODE

LED Display	Check Target	Check Method	Check Item
t06	Pressure switch checking	1. Press [K12] button the pump start draining water till all the water is drained out . Display shows "LL" 2. Press [K12] button again, The water valve inlet water, Display shows the current water level frequency, When the water level get overflow level, The pump drain water out till the drum becomes empty	LED displays LL
t07	Water temperature sensor and heater checking	1. Press [K12] button, The display shows "HEA" 2. Press [K12] button the valve inlet water until the water level get setting level,The display shows current water 3. The Heater run at most 5 min, Then turned off automatically	LED displays the current temperature
t08	Inlet valve checking	1. Press [K12] button, LED displays "uu" 2. Press [K1] button, LED displays "u1" and switch on prewash valve for 5s. 3. Press [K1] button, LED displays "u2" and switch on the main wash inlet valve for 5s. 4. Press [K1] button to switch on main wash and prewash valve and get the water level to setting level, then drain out the water.	LED displays "UU"
t09	Rotating checking	Press [K12] button, inner drum rotates in 45rpm/min clockwise for 15s and stop for 10s then rotates counterclockwise for 15s, over and over again.	LED displays "tUB"
t10	Spin speed checking	Press [K12] button , the number on the display goes up in the same pace with the real speed and when it reach 400rpm, you need to press [K1] button to get the machine to reach its target speed	LED displays "spn"

4 TEST MODE

LED Display	Check Target	Check Method	Check Item
t11	Drying checking	1. Press [K12] button ,Display shows "Press Start/Pause to test" 2. Press [K12] button to supply water, LCD display will show current temperature of drying tunnel outlet and inlet.	Check whether the temperature variation is normal
t12	Detergent automatic addition checking	1. Check the Detergent automatic addition System.	Check whether the detergent addition is working. **(This machine doesn't have the Detergent automatic addition System.)**
t13	Turbidity sensor checking	1. Check the Turbidity sensor	This machine doesn't have Turbidity sensor
t14	Run number checking	1. Press [K12] button, LED displays "Press Start/Pause to test" 2. Press [K12] button, the LCD display show the run number	Check the run number**(This is factory testing, not be used during after-sale service**)
t15	Computer board checking	1.Press [K12] ,show "TST",press [K12] again start test . Then open the main wash valve and pre-wash valve, display the item number, and close it after 2 seconds; 2.Open the drain pump, wash the heating tube, and display the main control software version number, display version number, touch version number, then close 3.The computer board issues an unlock signal (up to 3 times), starts the Eeprom test, displays "E2P" correctly, then displays the UI, displays the version number, and Eeprom displays E40 or E41 error; 4.Press [K1] or 2s again to enter the display test, all display, then partially light up, and finally display 0000, enter the button test; 5.Press all the buttons (K1-K11) to display the button values. After all the buttons are pressed, press the [K12]button to enter the KNOB test and turn KNOB to light up each program light. 6.Press [K1] again to display "End" and end the test.	Check whether the electric devices are working and whether the computer system control is OK. **(This is factory testing, not be used during after-sale service**)

5 DISASSEMBLY INSTRUCTION

Service tools needed

Needle nose pliers
Pliers，scissors，etc

8#、10#、13#、17#
sleeve spanner







cross screwdriver；
slot type screwdriver；
6# inner six angle screwdriver
Or allen wrench

5 DISASSEMBLY INSTRUCTION

⚠ WARNING



UNPLUG POWER

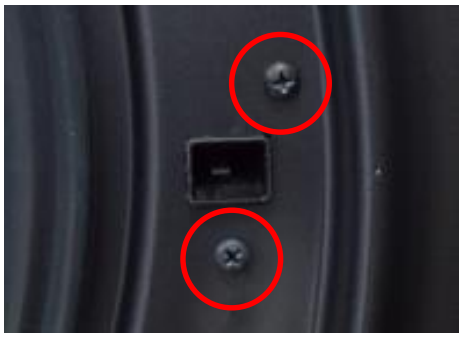
• Unplug power cord for the work such as disassembling which is not unnecessary to power on . Do not hold the plug by a wet hand.
Failing to unplug may cause an electric shock.

Operation	Picture
1. Disassemble the rear cover Disassemble the 4 screws between the rear plate and the cabinet, and then pull it out.	
2. Disassemble the top cover plate I. Disassemble the 2 screws fi cabinet. II. II. Push back the top cover plate 15mm until it leave away from the control panel and then take it down.	 
3. Disassemble the control panel I. Remove the top cover plate. II. Draw out the detergent drawer. III. Loosen 2 screws on the top of control panel. IV. Loosen 3 screws on the top of Front Cover V. Loosen 3 screws bottm of Front Cover	   

5 DISASSEMBLY INSTRUCTION

4. Disassemble the door lock

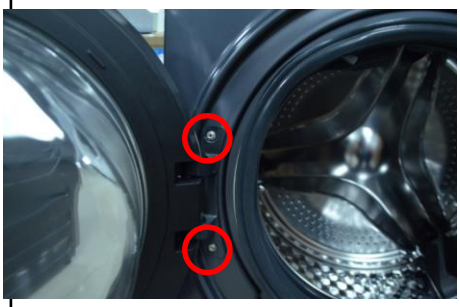
I. Open the door of the washing machine.
II. Pull open the door gasket.
III. Remove 2 screws on the door lock.
IV. Take out the door lock and draw out the plug.





5. Disassemble the Door subassembly

I. Remove 2 screws on the door hinge





6. Disassemble the Door Gasket assembly

I. Remove the clamp the pull out the gasket

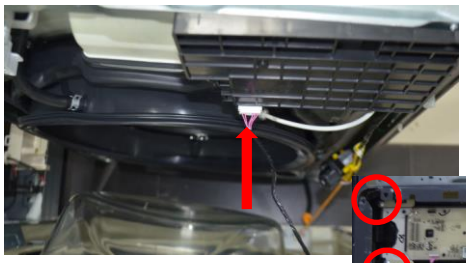


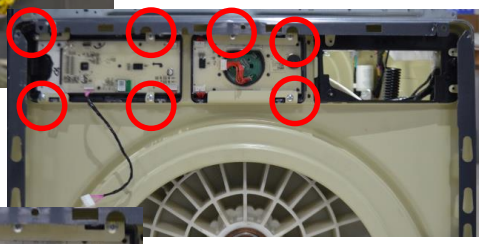


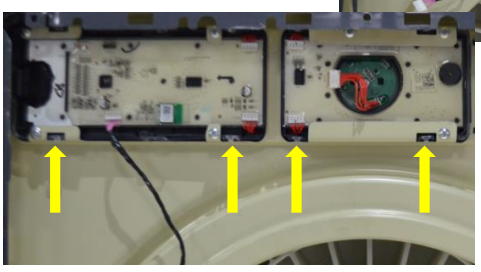
Remove the clamp

7. PCB assembly Disassemble

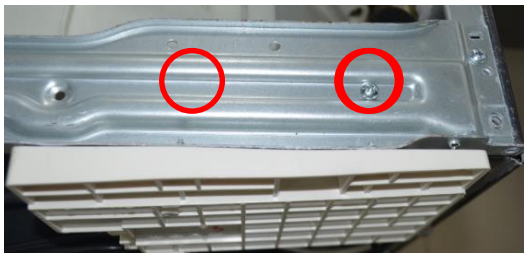
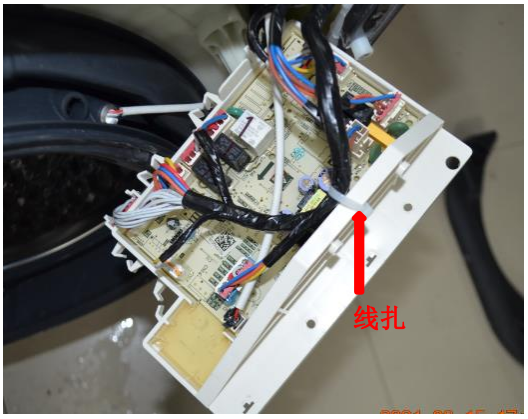
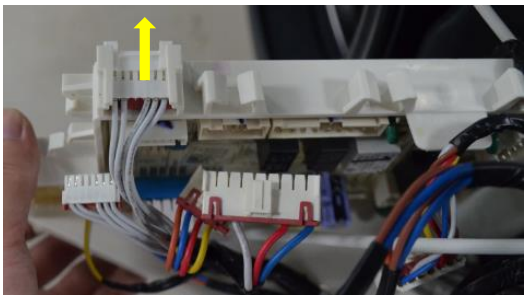
1. Take out of display pcb harness.
2. Remove front cover asm
3. Remove 7 screw
4. Press 4 hooks to take out of display PCB



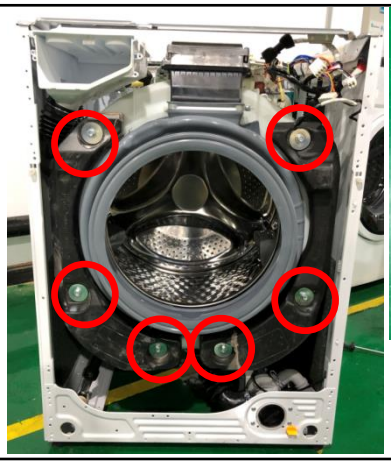
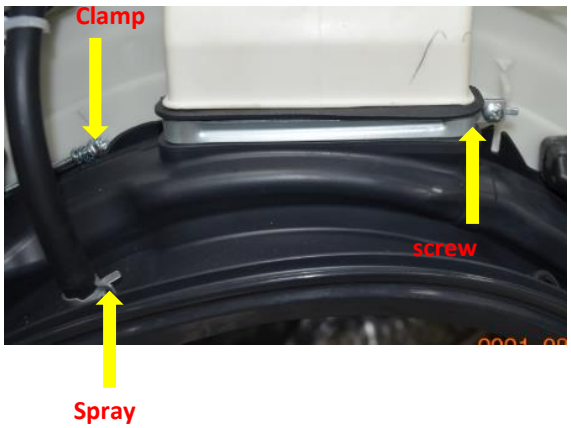




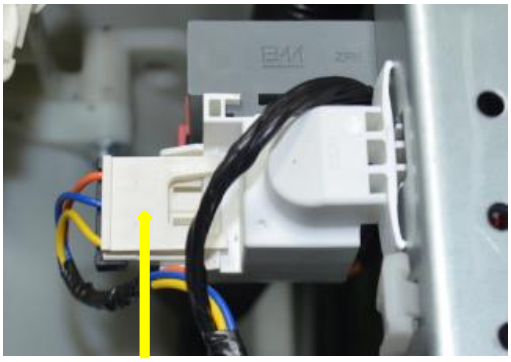
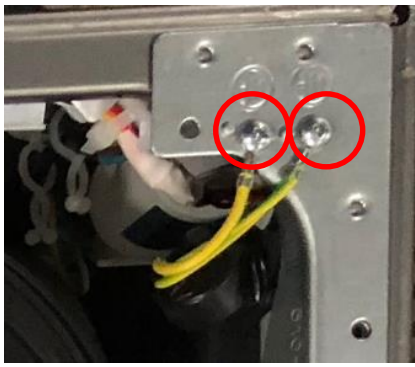
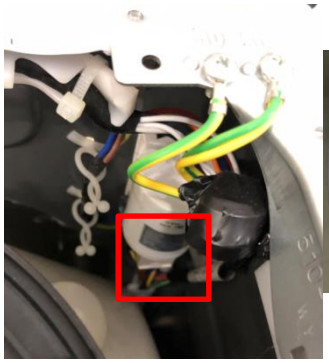
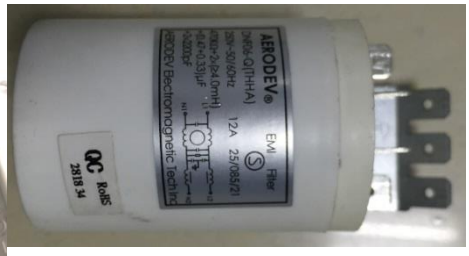
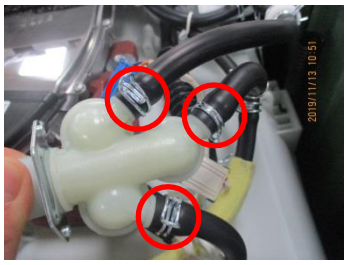
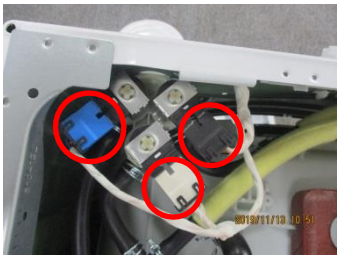
5 DISASSEMBLY INSTRUCTION

9. Disassemble the service plate box I. Open the filter cover(press the red point), release the 2 screws on the lower panel. II. Release the black tube.	  
10. Disassemble the Main PCB I. Remove the 2 screw II. Take out the camp	  

5 DISASSEMBLY INSTRUCTION

11. Disassemble the front counterweight I. Remove 6 screws and pull out the front counterweight.	 
12. Disassemble the Door Gasket I. Remove 2 screws and clamp II. Disassemble the gasket clamp screw	

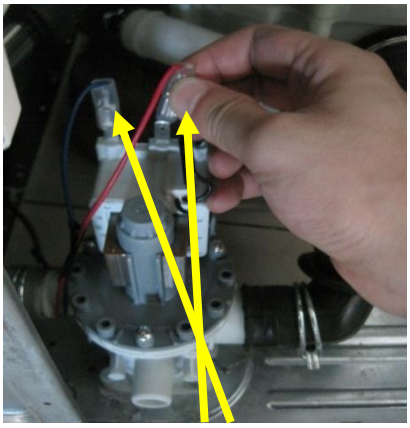
5 DISASSEMBLY INSTRUCTION

12. Disassemble the water level sensor I. Pull out the plug on the water level sensor. II. Loosen the water level sensor hose clamp and pull out the hose from the water level sensor. III. Rotate the water level sensor anticlockwise by 90º, and then pull out the water level sensor.	 Water level senser
13. Disassemble the Electric Filter Assembly I. Remove 3 screws on the filter II. Unplug connector and earth wire on the electric filter III. Take off the Electric Filter Assembly	   
14. Disassemble the inlet valve I. Remove the top cover plate II. Unplug connector and Disassemble 2 screws between cabinet and inlet valve， remove 3 connectors. III. Release the clamp fixing the inlet valve and the inlet hose, and then pull out the inlet hose.	  

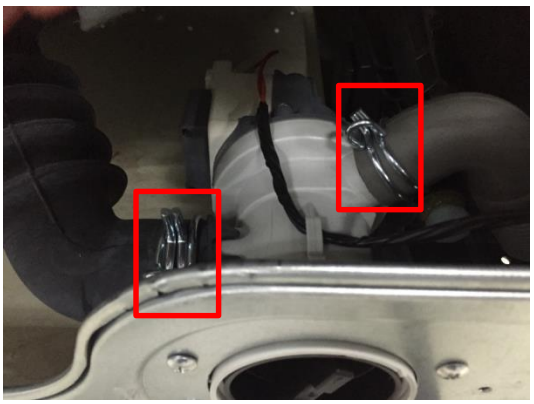
5 DISASSEMBLY INSTRUCTION

15. Disassemble the Drain pump assembly

I. Disassemble the 2 connectors
II. Disassemble the 2 clamp between pump and bellows or drain hose
III. Disassemble 4 screws on the lower plate
IV. And then we can get drain pump



Remove connector



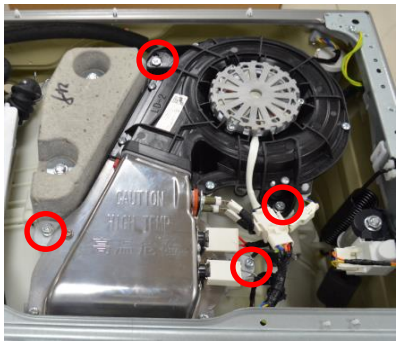


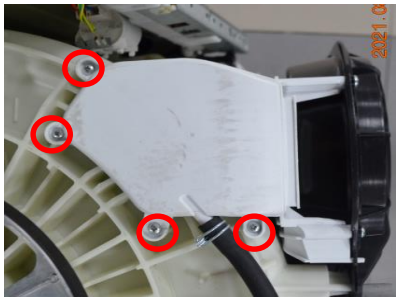


5 DISASSEMBLY INSTRUCTION

Only Wash&Dry model

16. Disassemble the Tunnel Assembly



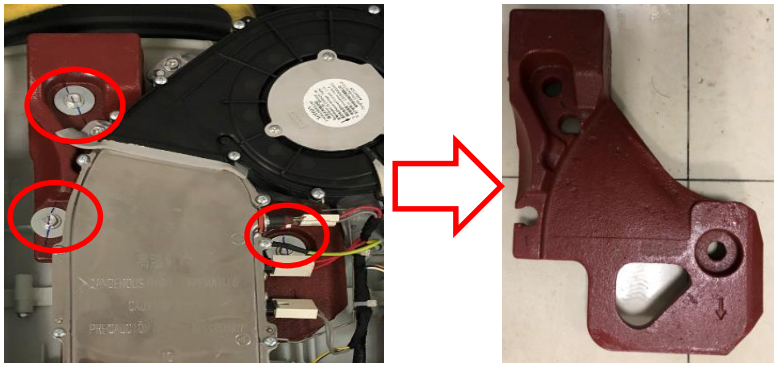
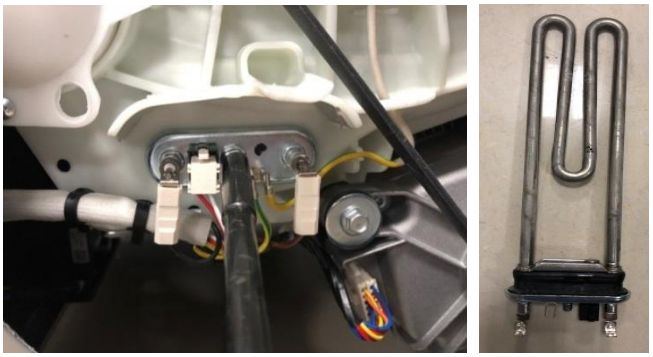
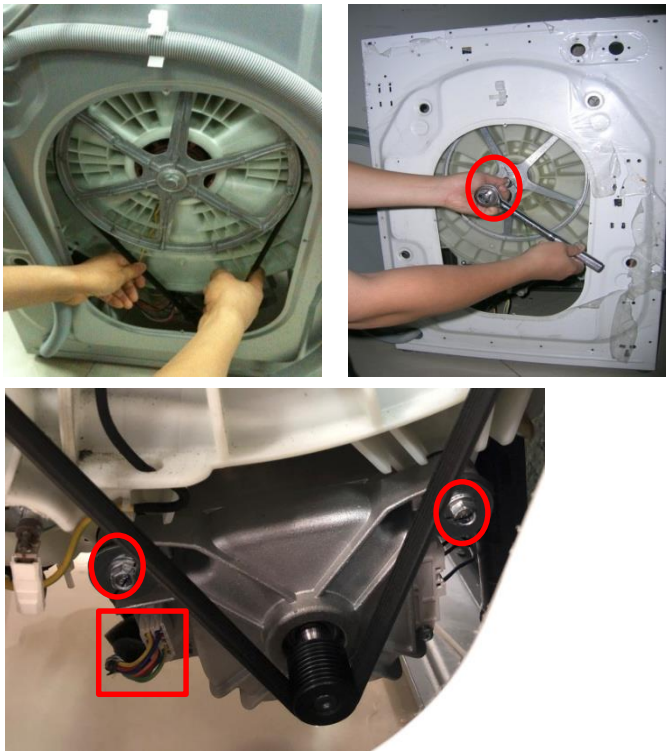








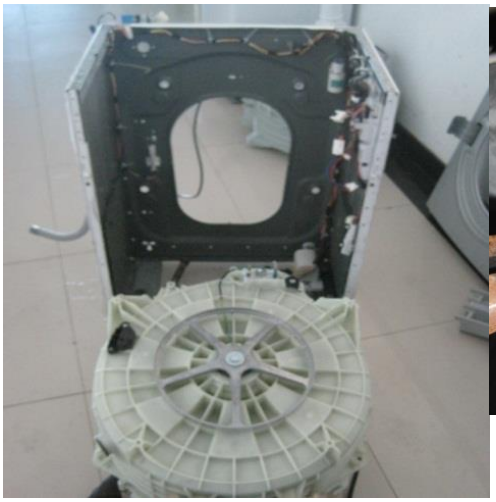
5 DISASSEMBLY INSTRUCTION

17. Disassemble the upper counterweight **Wash & Dry model:** Disassemble the Tunnel Assembly firstly(Last page). Then remove 3 screws on the upper counterweight and then pull out the upper counterweight.	
18. Disassemble the heater I. Remove the bolt and pull out the heater plug.	
19. Disassemble the Motor I. Remove the Belt. II. Disassemble the bolt of pulley and pull out the pulley. III. Disassemble the connector of motor IV. Disassemble 2 screws on the motor	

5 DISASSEMBLY INSTRUCTION

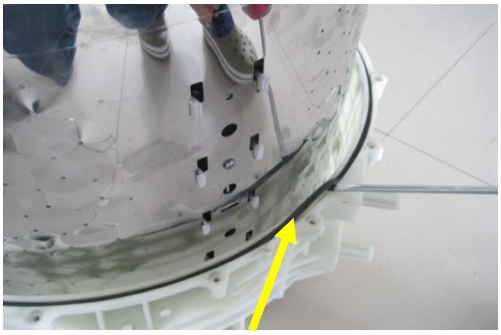
20. Disassemble the Tub Assembly

I. Remove the 2 suspension spring
II. Task off the Tub Assembly at the front side.
III. Disassemble all of the screws.
IV. Pull out the front outer tub
V. Pull out the inner tub assembly





Outer tub



Seal

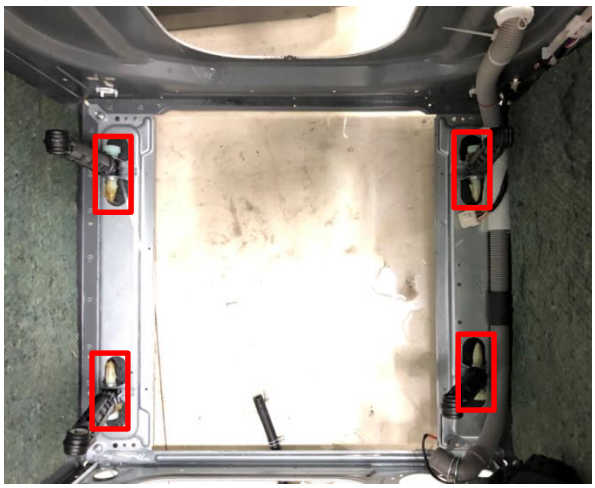


Inner tub

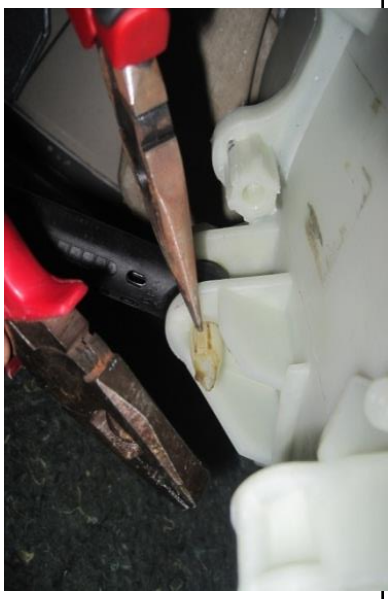
5 DISASSEMBLY INSTRUCTION

21. Disassemble the absorber pin

I. Use pliers to pinch the absorber pin’ s protuberance, and knock the absorber pin out from back lightly; in the same way, remove the other two.







22. Disassemble the Choke

I. Disassemble 2 screws on the choke.

II. Take off the choke



6 ERORR CODES AND EXPLANATIONS

Fault Code LED (LCD)	Category	Description
E10	Fill system	Fill Timeout/Slow Fill
E12	Fill system	Overflow Protect
E21	Drain system	Drain Timeout/Slow Drain
E30	Sensor	Door Lock Failure
E33	Sensor	Water Level Sensor Failure
E34/E35	Sensor	Water Temperature Sensor Failure
E36	Sensor	Heating Failure

6 ERORR CODES AND EXPLANATIONS

Fault Code LED (LCD)	Category	Description
E37	Dry system	Thermistor(Dry-in) fault
E38	Dry system	Thermistor(Dry-out) fault
E3A	Dry system	Dry heater fault
E50	Motor Inverter PCB board doesn’ t work	The Inverter PCB works abnormal
E64	Motor Inverter and Main PCB communication fault	Inverter PCB fault
E80	Display PCB and Main PCB communication fault	Display PCB fault

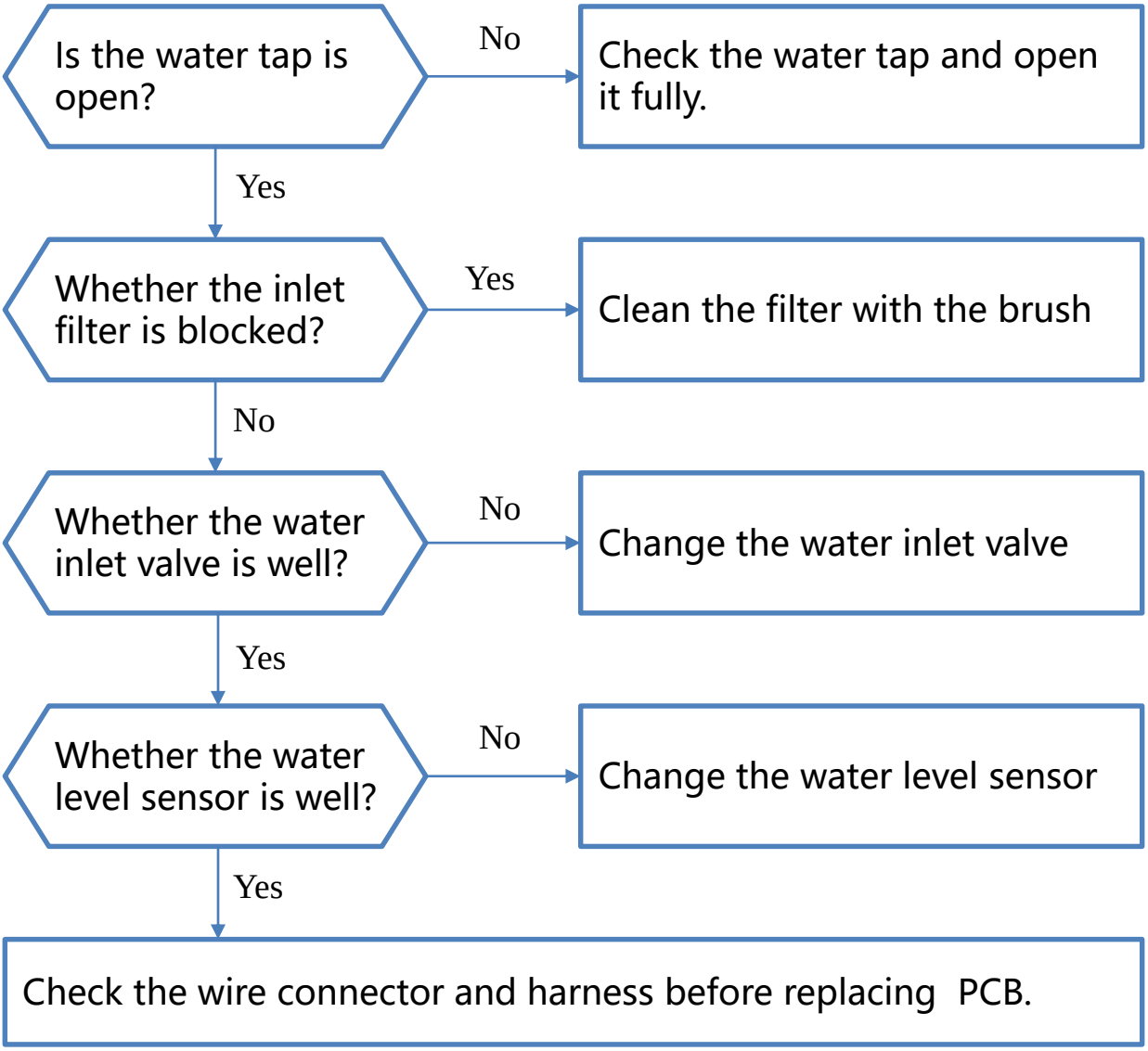
E10

- Define: Water injecting problem during wash cycle.
- Reasons: The root reason is the water level doesn’ t change within 3 minutes.

Malfunction code	Root Reason	Possible cause
E10	The water level doesn’ t change within 3 minutes.	If the washer is filling very slowly, the water pressure from the house might be too low. The water pressure must be greater than 0.1 MPa.
		Water faucet is not turned on or the screens on the hoses are blocked.
		The screens inside the water inlet valve are blocked or the water inlet valve is damaged.
		Something is wrong with water level sensor.

E10

➢ Check Procedure:



E10

➢ Check Procedure:

Step 1 Check the water tap

① Check the water tap and open it fully if it is not. (Fig.1)



Fig.1

Step 2 Check the inlet filter

① Close the tap and remove the water supply hose. (Fig.2)
② Clean the filter with a brush if it is blocked. (Fig.3)
③ Unscrew the water supply hose from the backside of the machine. Pull out the filter with long nose pliers. (Fig.4)
④ Clean the filter with a brush if it is blocked. (Fig.5)

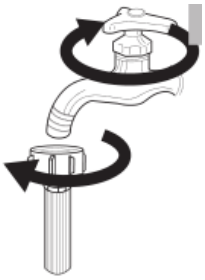


Fig.2



Fig.3



Fig.4



Fig.5

Step 3 Check the water inlet valve

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.6)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.7)
③ Measure the resistance value of the water inlet valve, 3-6kΩ is OK. (Fig.8)
④ If the resistance value of the water inlet valve is not well, change the water inlet valve. (Fig.9)



Fig.6



Fig.7



Fig.8

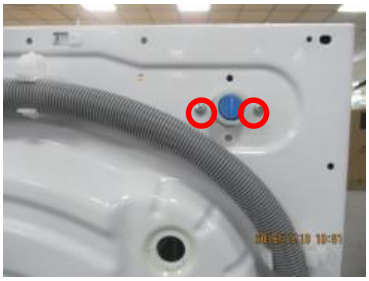


Fig.9

E10

➢ Check Procedure:

Step 4 Check the water level sensor

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.10)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.11)
③ Measure the resistance value of the water level sensor, 10-50Ω is OK. (Fig.12)
④ If the resistance value of the water level sensor is not well, change the water level sensor. (Fig.13)



Fig.10



Fig.11



Fig.12

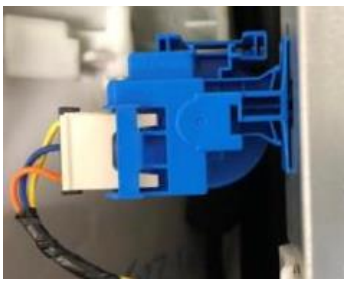


Fig.13

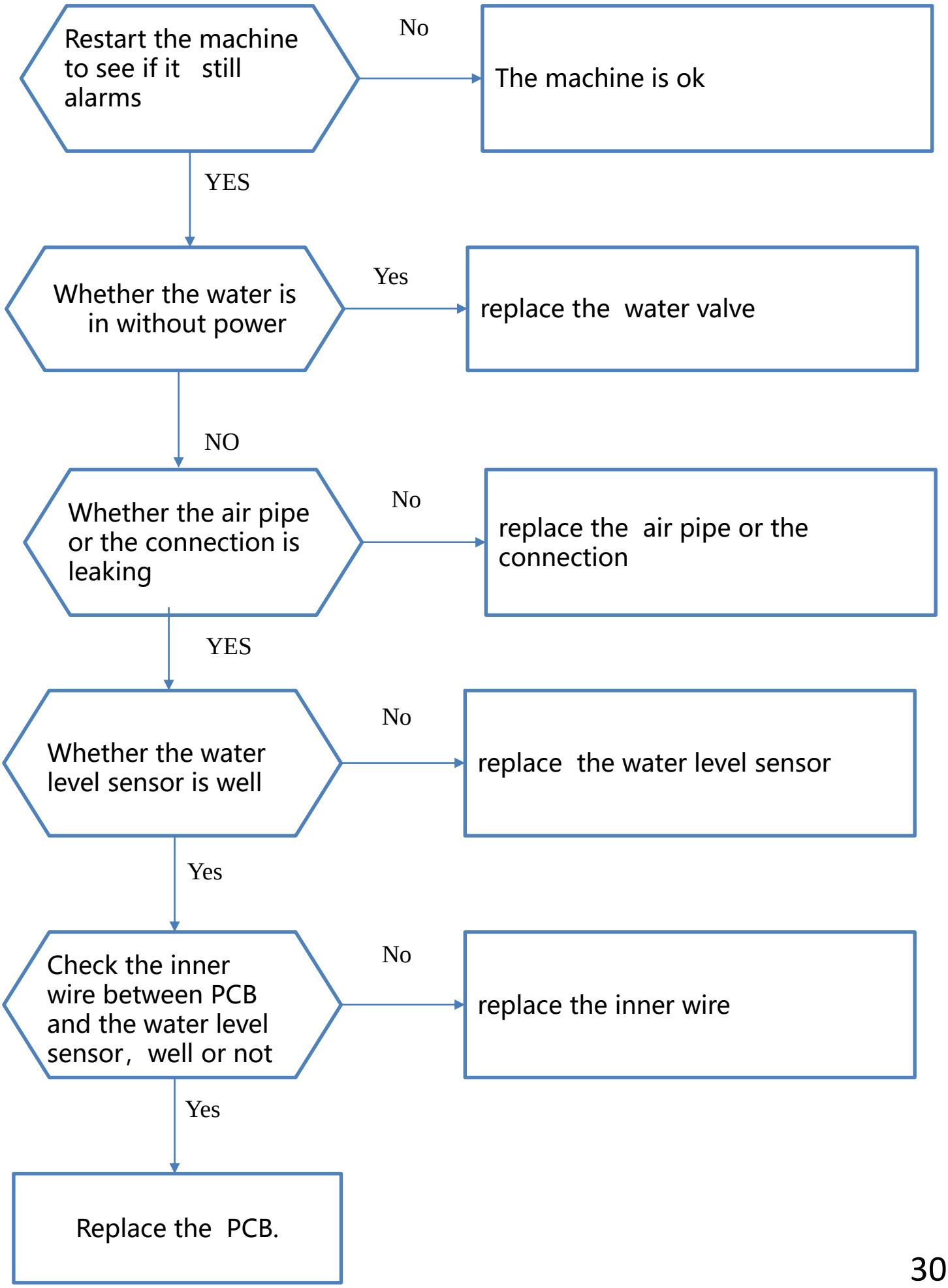
E12

- Define: The water level in drum exceed a certain level for alarm.
- Reasons: When the program is in the state of suspension, operation or recoverable alarm, if the water level is detected to be higher than the overflow water level within 16 consecutive seconds, the water level will be emptied. After the empty, the E12 alarm will be given.

Malfunction code	Root Reason	Possible cause
E12	When the program is in the state of suspension, operation or recoverable alarm, if the water level is detected to be higher than the overflow water level within 16 consecutive seconds, the water level will be emptied. After the empty, the E12 alarm will be given.	Sometimes just restart the machine, can solve the problem.
		Something is wrong with the water valve.
		Something is wrong with water level sensor.
		The air pipe may be damaged.
		Inner wire may be damaged.
		Something is wrong with PCB.

E12

➢ Check Procedure:



E12

➢ Check Procedure:

Step 1 Restart the machine to see if it still alarms

Step 2 Whether the water is in without power

① Turn off the washing machine and open the door of the washing machine.
② Connect the water supply hose to the water inlet valve, then open the water switch.
③ Keep watching the washing machine, to see if there is some water run in.
④ If the water is in without power , we need replace the water valve following the below Fig.1-Fig.3.



Fig.1 Remove the water valve screws

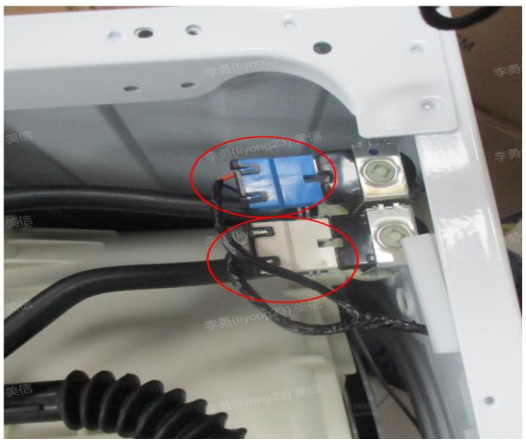


Fig.2 Remove the water valve terminal

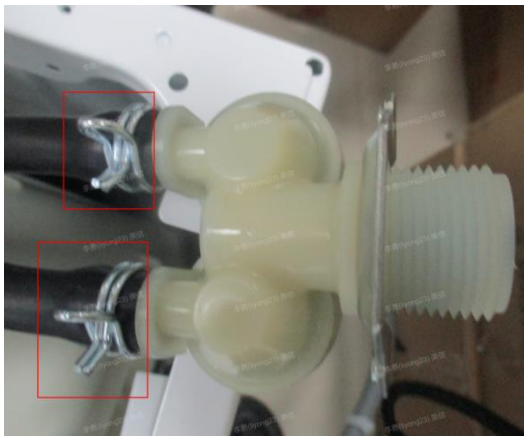


Fig.3 Remove the water valve connection, and change the water valve

E12

➢ Check Procedure:

Step 3 Whether the air pipe or the connection is leaking

① Undo the top cover to make sure the air pipe connection is well, following the below Fig.4-Fig.5.
② Following the below Fig.6-Fig.7, to make sure whether the air pipe is damaged or not.
③ If the air pipe or the connection is leaking, we need change it following the below Fig.8-Fig.9.



Fig.4 Undo the top cover



Fig.5 Make sure the connection is ok



Fig.6 The machine is inverted forward



Fig.7 Whether the air pipe is damaged



Fig.8 Remove the connection between the black pipe and the tub, remove the connection between the black pipe and the pump



Fig.9 Remove the connection between the black pipe and the water level sensor

E12

➢ Check Procedure:

Step 4 Whether the water level sensor is well

① Measuring two vertical terminals, Capacitance value range 40-50nF-PASS.(Fig.10)
② If not pass, we need to replace the water level sensor following the below steps Fig.11-Fig.13.

Fig.10





Fig.11 Remove the terminal of the water level sensor



Fig.12 Rotating the sensor to remove the water level sensor from the box



Fig.13 Remove the connection between the black pipe and the water level sensor

E12

➢ Check Procedure:

Step 5 Check the inner wire between PCB and the water level sensor， well or not

① Finding terminals between PCB and the water level sensor .(Fig.14-Fig.15)
② Measuring two vertical terminals that have same color, the resistance value indicates that the circuit is well.(Fig.16)
③ If the resistance has no value, we need to replace the inner wire.

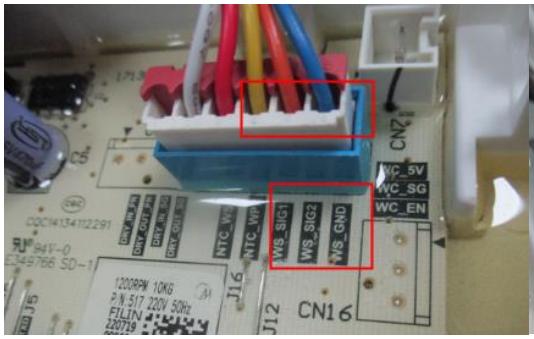


Fig.14



Fig.15

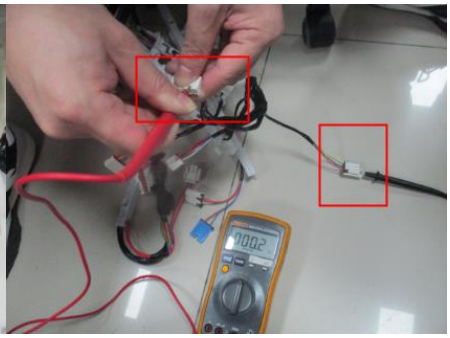


Fig.16

Step 6 Replace the PCB

① If all the above checks are normal, please change the PCB. (Fig.17)

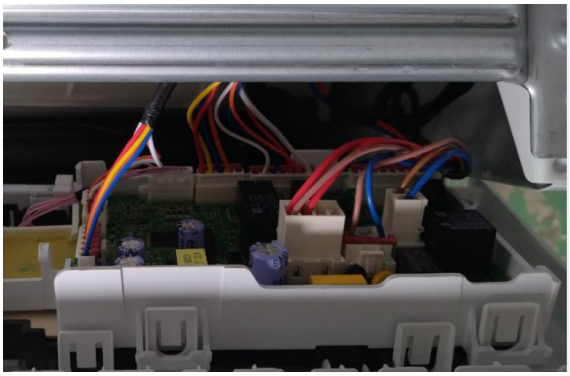


Fig.17

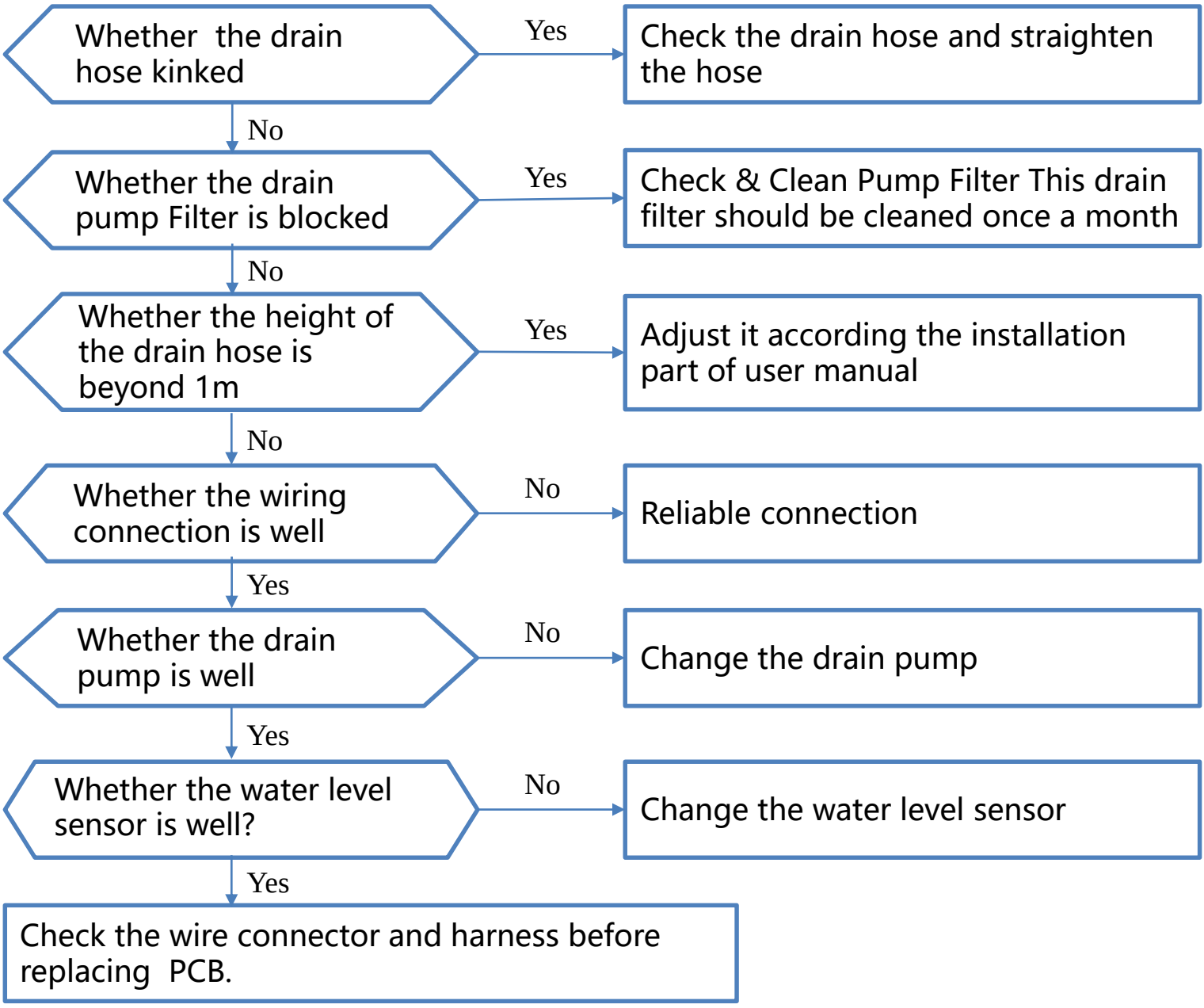
E21

- Define: Over time water draining.
- Reasons: The root reason is the water level doesn’ t change within 6 minutes.

Malfunction code	Root Reason	Possible cause
E21	The water level doesn’ t change within 6 minutes	If the washer won't drain water check the drain hose. Be sure the hose did not get kinked behind the washer. Also, remove the hose from the pump and check it for obstructions.
		If the washer won't drain water the drain pump might be defective. It's also common for a small sock or other article of clothing to get caught in the drain pump or in the drain hose. Check both for an obstruction before replacing the pump.
		Check the PCB

E21

➢ Check Procedure:



E21

➢ Check Procedure:

Step 1 Check the drain hose

① Check the drain hose, if the drain hose is kinked, straighten it.

Step 2 Check the drain pump filter

① Open the server board box. (Fig.1)
② Open the filter by turning to the counter clockwise. (Fig.2)
③ Remove extraneous matter. (Fig.3)
④ Reassemble the drain pump and server board box. (Fig.4)

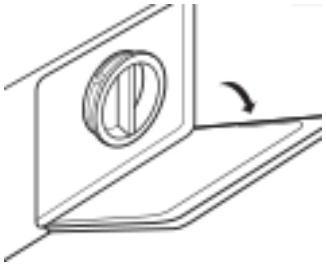


Fig.1



Fig.2



Fig.3

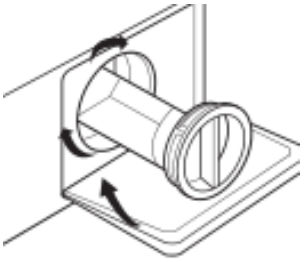


Fig.4

Step 3 Check the height of the drain hose

① There are two ways to place the end of drain hose. (Fig.5 & Fig.6)
② Don’ t remove the drain hose screw. (Fig.7)

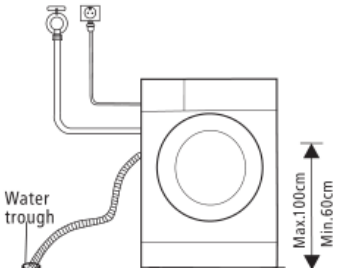


Fig.5

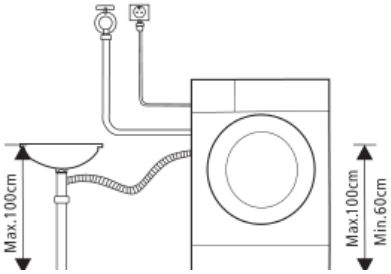


Fig.6



Fig.7

Step 4 Check the drain pump

① Lean the wash machine and remove the connector. (Fig.8)
② Measure the resistance value of the drain pump, 150-250Ω is OK. (Fig.9)
③ If the resistance value of the drain pump is not well, change the drain pump.

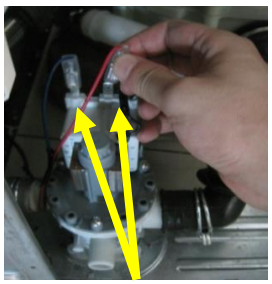


Fig.8



Fig.9

E21

➢ Check Procedure:

Step 5 Check the water level sensor

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.10)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.11)
③ Measure the resistance value of the water level sensor, 10-50Ω is OK. (Fig.12)
④ If the resistance value of the water level sensor is not well, change the water level sensor. (Fig.13)



Fig.10



Fig.11



Fig.12

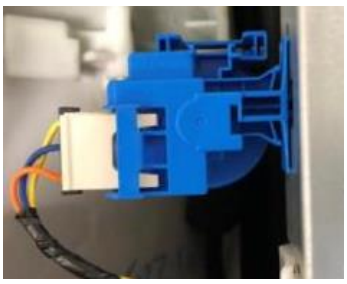


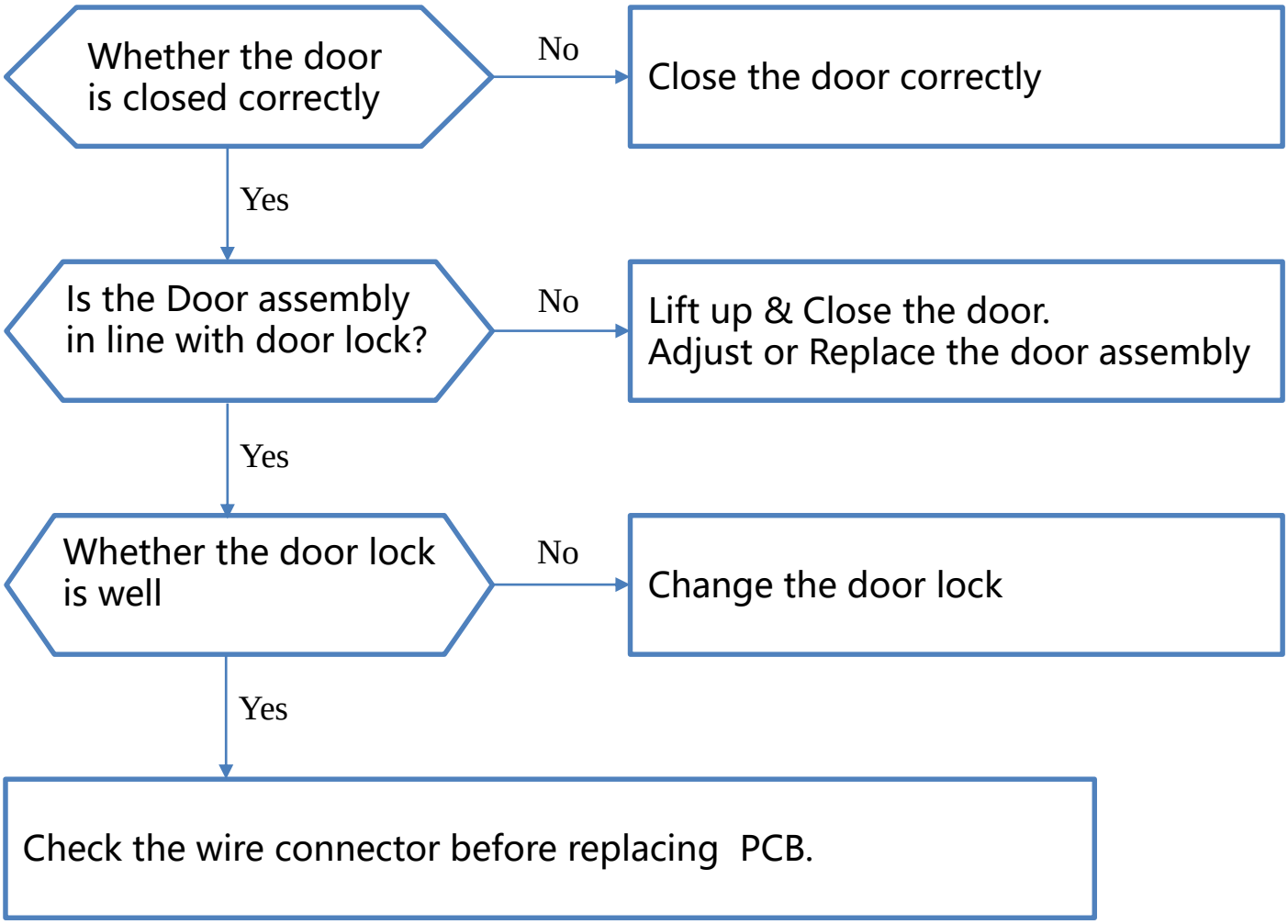
Fig.13

E30

- Define: Door is not closed properly.
- Reasons: The root reason is the water level doesn’ t change within 6 minutes.

Malfunction code	Root Reason	Possible cause
E30	Door can’ t be unlocked with over 3 time’ s fail.	The Door is not closed or is not closed in correct location.
		The inner wire connector is not installed well.
		Check the PCB

- Check Procedure:



E30

➢ Check Procedure:

Step 1 Check the door

① Check the door and close it correctly.

Step 2 Check the door assembly

① Check the hook if it is in line with door lock. (Fig.1)
② Adjust or replace the door assembly.



Fig.1

Step 3 Check the door lock

① Open the door of the washing machine, pull out the door gasket and remove 2 screws on the door lock. (Fig.2)
② Take out the door lock and draw out the plug. (Fig.3)
③ Measure the resistance value of the door lock,100-300Ω is OK. (Fig.4)
④ If the resistance value of the door lock is not well, change the door lock.

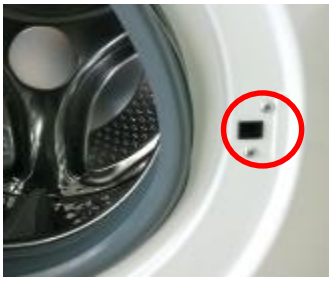


Fig.2



Fig.3



Fig.4

Step 4 Check the wire connector and PCB

① Check whether the wire and PCB connect well. (Fig.5)
② Reconnect the wire connector or replace the PCB.



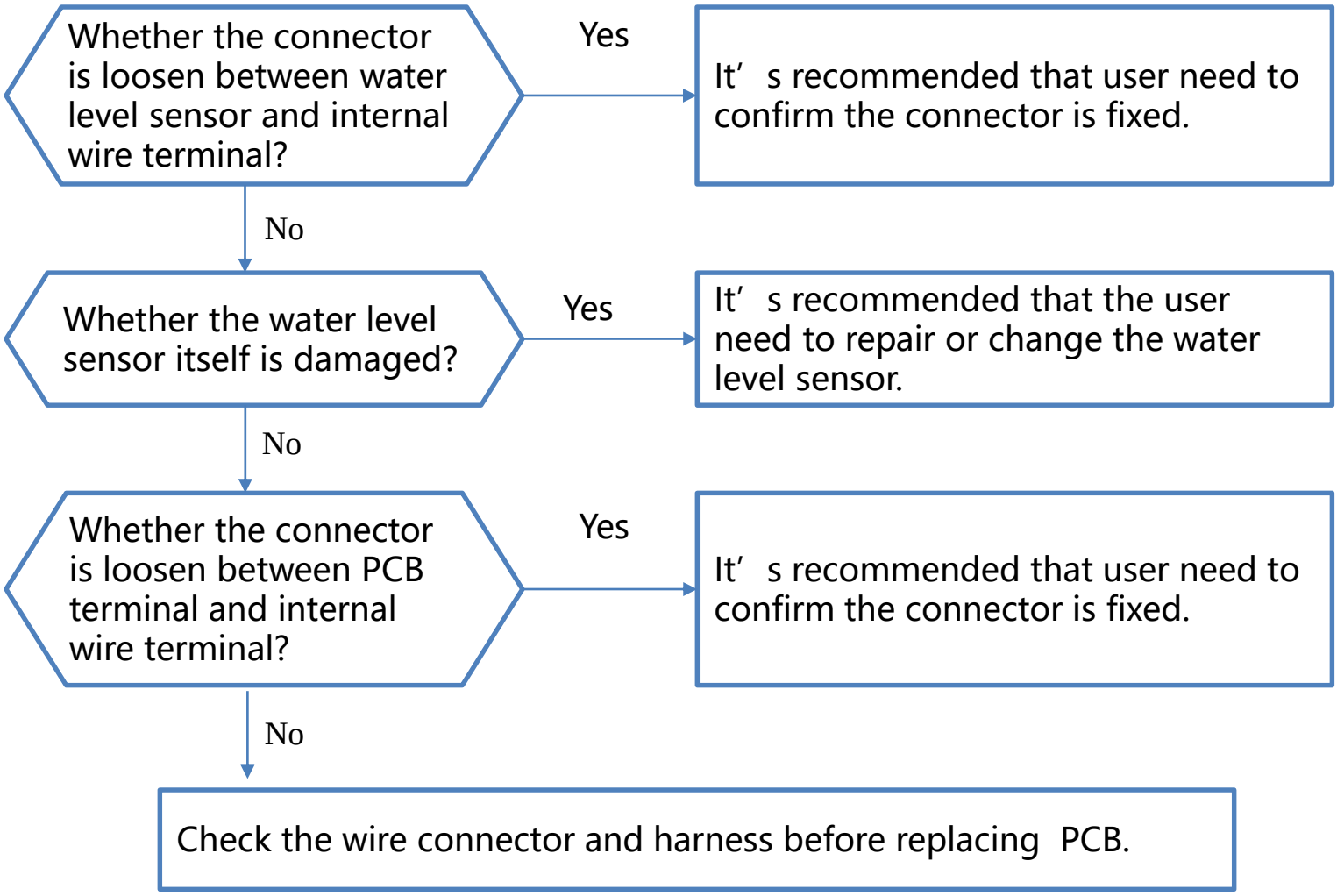
Fig.5

E33

- Define: Water level sensor problem during wash cycle.
- Reasons: If the washing machine detects that the frequency of the water level sensor is not within the normal range for 10 seconds, it will give an alarm.

Malfunction code	Root Reason	Possible cause
E33	If the washing machine detects that the frequency of the water level sensor is not within the normal range for 10 seconds, it will give an alarm.	The wire connector loose between water level sensor and internal wire terminal
		Water level sensor failure
		The wire connector loose between PCB terminal and internal wire terminal

- Check Procedure:



E33

➢ Check Procedure:

Step 1 Check the connector between water level sensor and internal wire terminal

① If the connector is loosen between water level sensor and internal wire terminal the E33 warning will occur on the power. It' s recommended that user need to confirm the connector is fixed. (Fig.1)

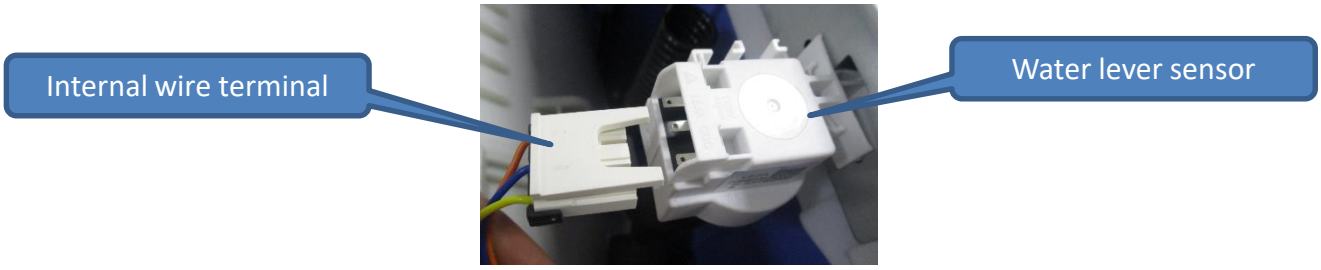


Fig.1

Step 2 Check the water level sensor

① Check whether the water level sensor itself is damaged, if it' s damaged the E33 warning will occur . It' s recommended that the user need to repair or change the water level sensor. (Fig.2)

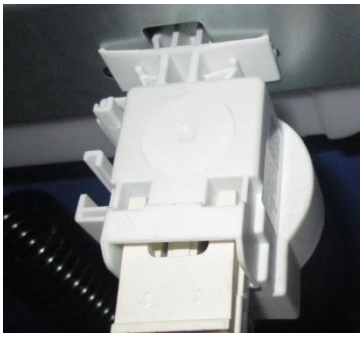


Fig.2

Step 3 The wire connector loose between PCB terminal and internal wire terminal

① If the connector is loosen between PCB terminal and internal wire terminal the E33 warning will occur on the power. It' s recommended that user need to confirm the connector is fixed.(Fig.3)

② If all inspections are completed, it is suspected that the computer board is damaged. It' s recommended that the user need to repair or change the water level sensor.

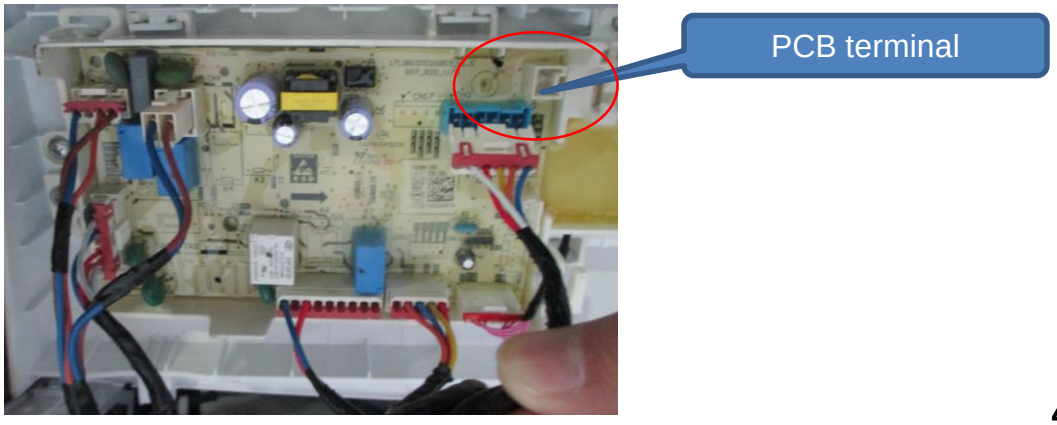


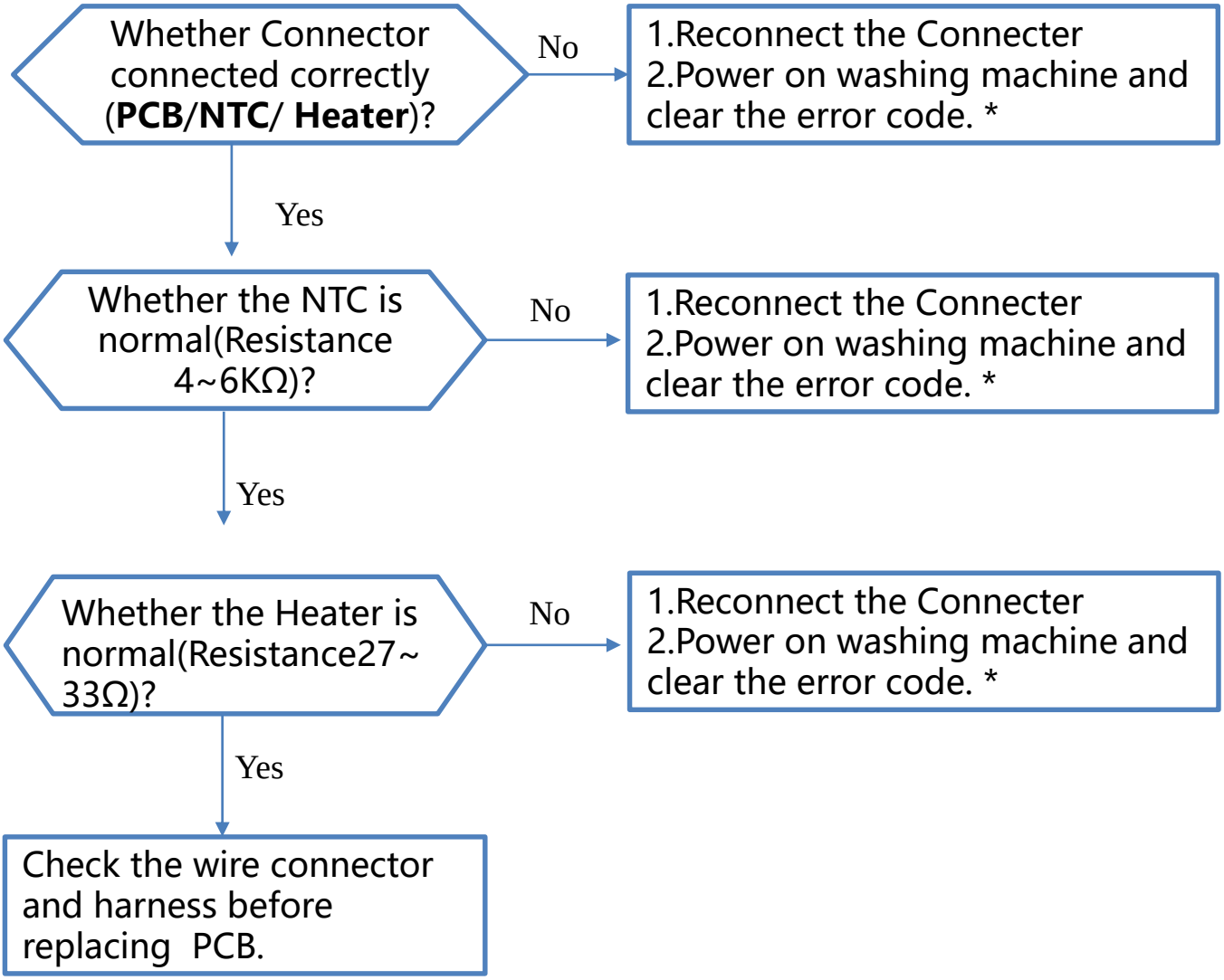
Fig.3

E36

- Define: Water heater error
- Reasons: Water Heater continuously for 10 minutes, the temperature change is less than 3 degrees
- Remark : E36 ERROR can not be clear by consumer. Need service engineer to repair this issue.

Malfunction code	Root Reason	Possible cause
E36	Water heater continuously for 10 minutes, the temperature change is less than 3 degrees	PCB / NTC / Heater connected bad
		NTC / Water heater defect
		The PCB defect

- Check Procedure:



E36

➢ Check Procedure:

Step 1 Check the Harness connect

① Check PCB ~ Harness connect. (Fig.1)

② Check Heater/NTC ~ Harness connect(Fig.2)



Fig.1

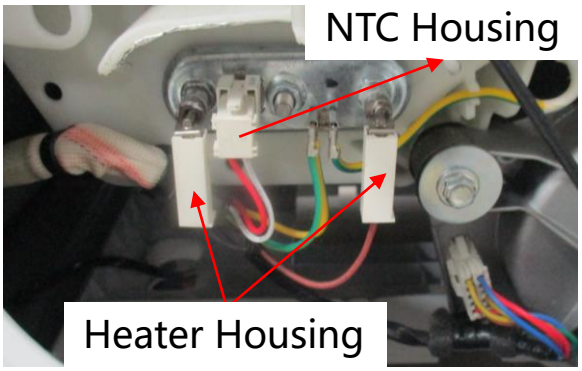


Fig.2

③ if connect is abnormal , need to connect it tightly.

④Power on wash machine to clear E36。 (E36 Error clear method please check next page)

Step 2 Check the Heater whether defect or not

① Pull out the heater NTC housing , then measure the NTC resistance**(4-6KΩ is OK)**. (Fig.3)

② Pull out the Heater housing , then measure the heater resistance**(30±3Ω is OK)** . (Fig.4)

Check NTC **Resistance**



Fig.3

Check Heater **Resistance**



Fig.4

③ If heater NTC or Heater resistance is NG ,need change the water heater.

④Power on wash machine to clear E36. (E36 Error clear method please check next page)

Step 3 If Step 1 & 2 check is NORMAL , need to change the PCB

E36

E36 Error Clear : K1+K4 long press 3seconds.



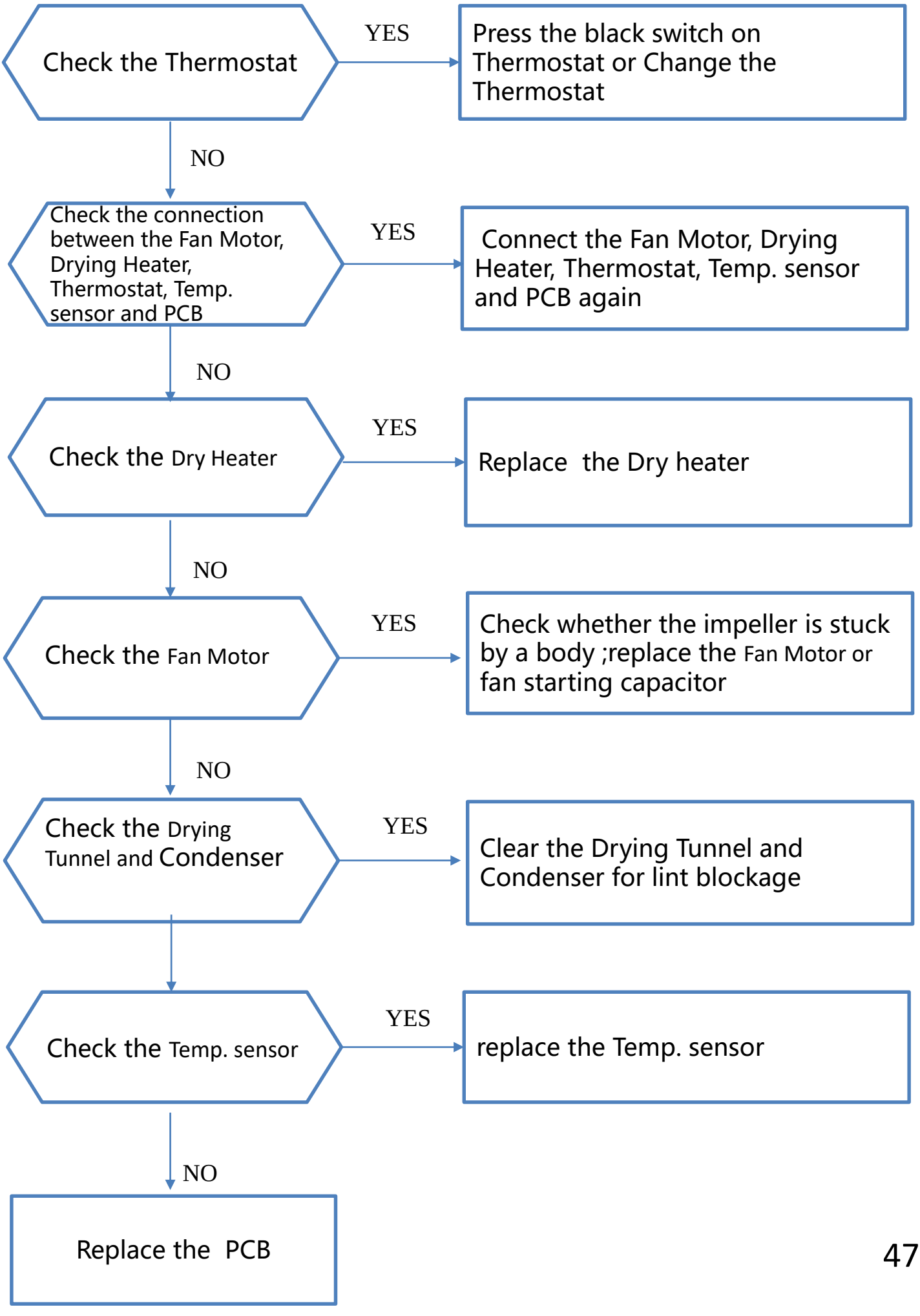
E3A

- Define: No Drying
- Reasons: The temperature changed less than 3℃ during the Drying process, the E3A alarm will be given.

Malfunction code	Root Reason	Possible cause
E3A	The temperature changed less than 3℃ during the Drying process, the E3A alarm will be given.	The Thermostat is off or breaking
		Having not good connection between the Fan Motor, Drying Heater, Thermostat, Temp. sensor and PCB
		The Dry Heater does not work
		The Fan Motor does not work
		Something is wrong in Drying Tunnel and Condenser
		The Temp. sensor is breaking
		Something is wrong with PCB.

E3A

➢ Check Procedure:



E3A

➢ Check Procedure:

Step1 Check the Thermostat

① Press the black switch on Thermostat inward with a clear sound. (Fig.1).
(If it can not move inward, that means the Thermostat is OK)

② After switch being on, measure the resistance of the Thermostat
(resistance range R<5Ω). (Fig.2)

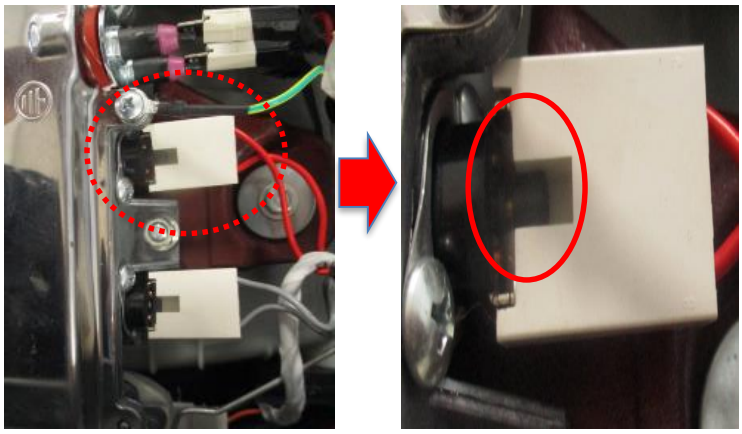


Fig.1



Fig.2

Step2 Check the connection of the Fan Motor, Drying Heater, Thermostat, Temp. sensor and PCB



Fig.3

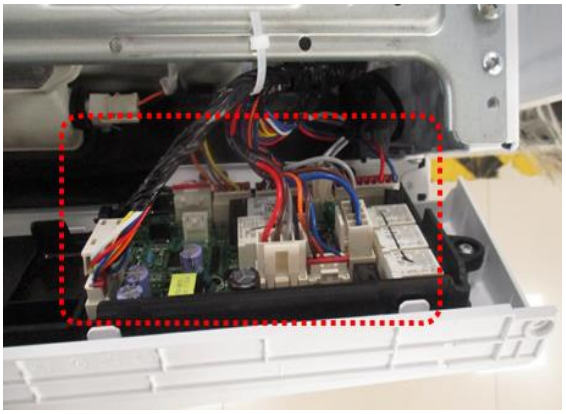


Fig.4

E3A

➢ Check Procedure:

Step3 Check the Dry Heater

Measure the resistance of the Dry Heater
Range of Resistance :
①220-240V: 44Ω±10%;
②100-127V: 120V: 14Ω±10%



Fig.5

Step4 Check the Fan Motor

①Run the drying program and check whether the rotor of the Fan Motor can spin normally

! Note:
If the fan is working properly, step 2/3/4 can be skipped.

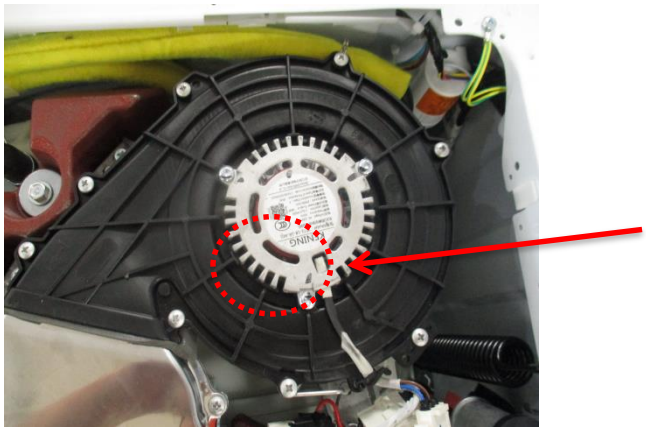


Fig.6

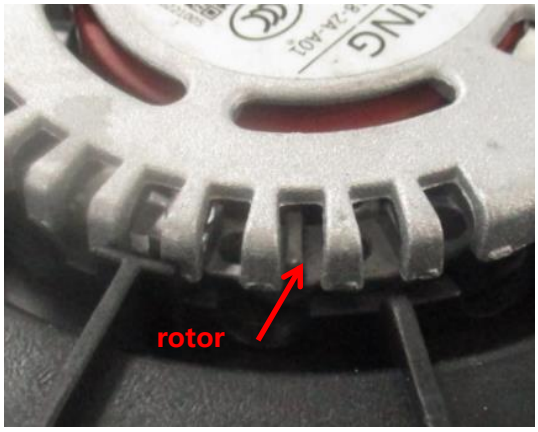


Fig.7

E3A

➢ Check Procedure:

Step4 Check the Fan Motor

②Measure the resistance of the Fan Motor.
(DC fan: the resistance values: A≈B≈C)
(AC fan: the resistance values: A≈B+C, B≈C)

AC Fan



Fig.8



Fig.9



Fig.10

③Remove the fan and move the impeller to check whether the impeller is stuck.

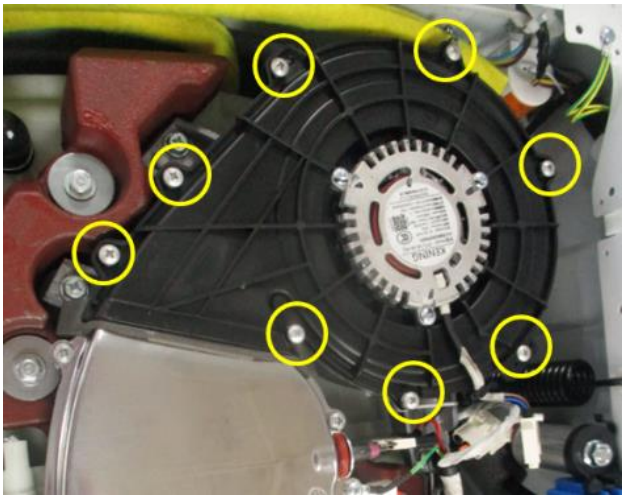


Fig.11



Fig.12

E3A

➢ Check Procedure:

Step4 Check the Fan Motor

④Check the fan driver

AC Fan Check the fan starting capacitor and change it



Fig.13

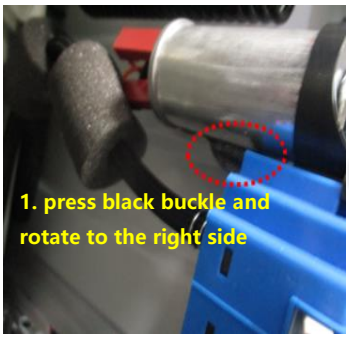


Fig.14

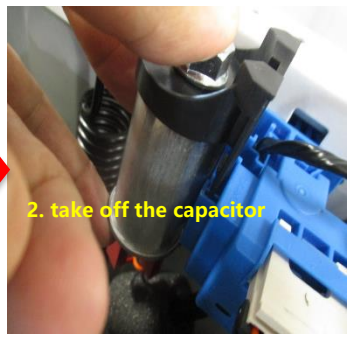


Fig.15



Fig.16

DC Fan Change the fan inverter



Fig.17

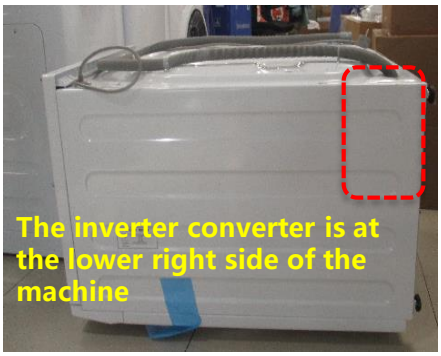


Fig.18



Fig.19

E3A

➢ Check Procedure:

Step5 Check the Drying Tunnel and Condenser

Check the Drying Tunnel for lint blockage

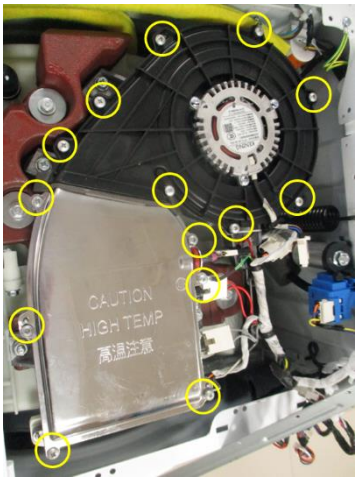


Fig.20

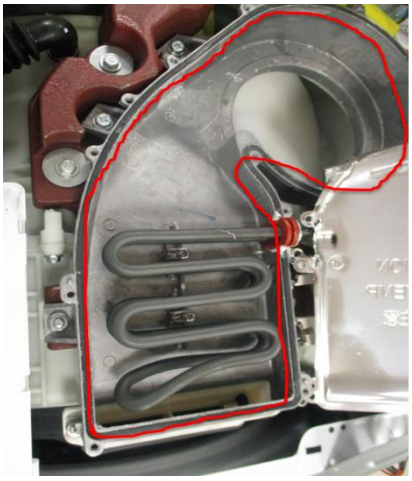


Fig.21

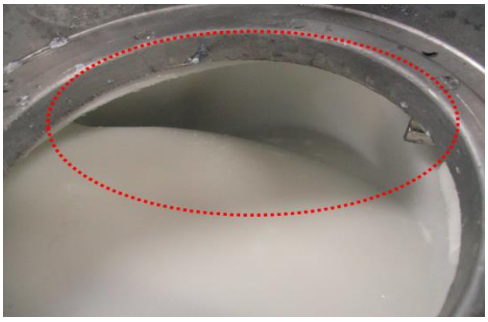


Fig.22

1. If there is any fluff blockage, please clean it.
2. It can be flushed into the tub with water.
3. Start the Rinse & Spin program

Step6 Check the Temp. sensor

Measuring the resistance of Temp. sensor(normal range : 4.8kΩ±10%)



Fig.22



Fig.23

Step7 Change the PCB

If all the above checks are normal, please change the PCB

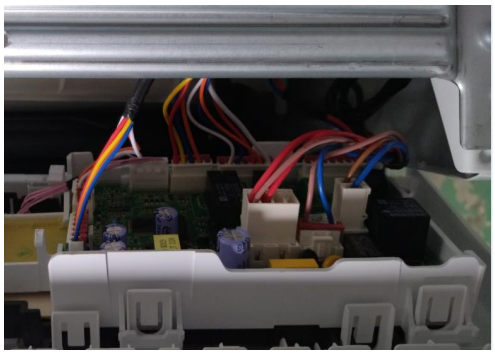


Fig.24

E37

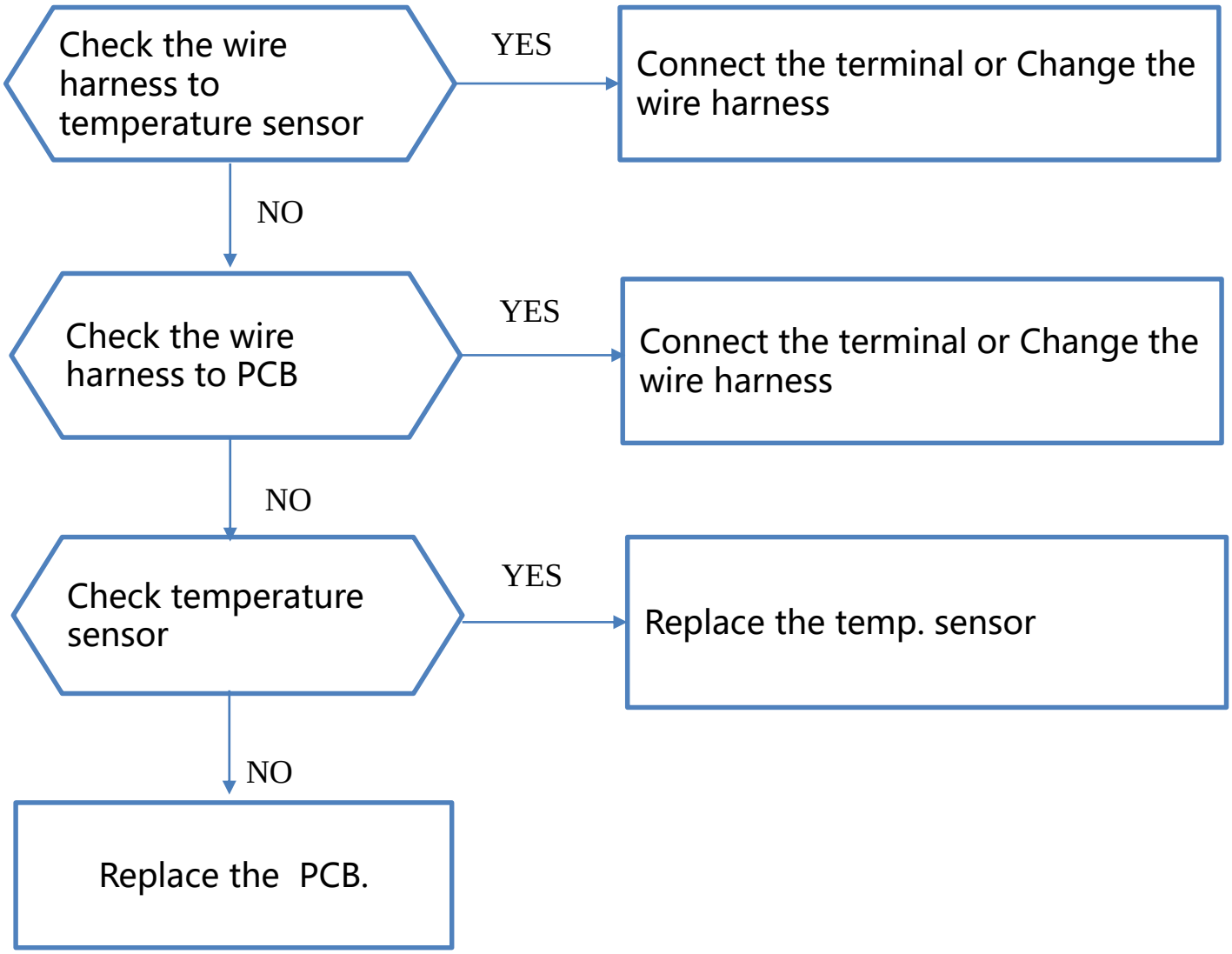
- Define: The temp. sensor of intake port does not receive the change of temperature.

- Reasons: Short circuit or open circuit of temp. sensor around intake port and wire harness, the E37 code will be given.

Malfunction code	Root Reason	Possible cause
E37	Short circuit or open circuit of temp. sensor around intake port and wire harness, the E37 code will be given.	The wire harness to temperature sensor is does not work or the terminal is loose
		The wire harness to PCB is broken or the terminal is loose
		Temp. sensor does not work

E37

➢ Check Procedure:



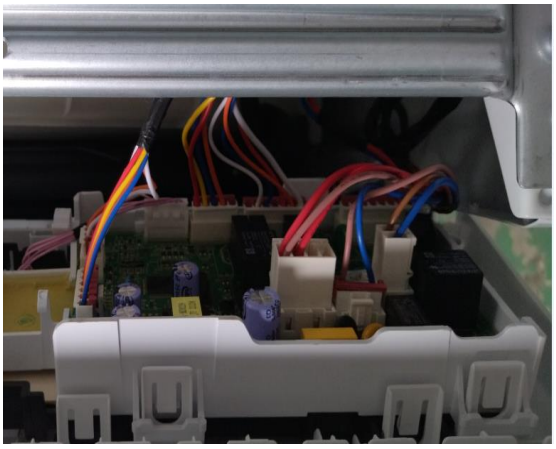
E37

➢ Check Procedure:

Step1 Check if the wire harness to temp. sensor does not work or the terminal is loose



Step2 Check if the wire harness to PCB is broken or the terminal is loose



Step3 Taking off temp. sensor and measuring the resistance of sensor with ohmmeter.(normal value : 4.8kΩ±10%)



E38

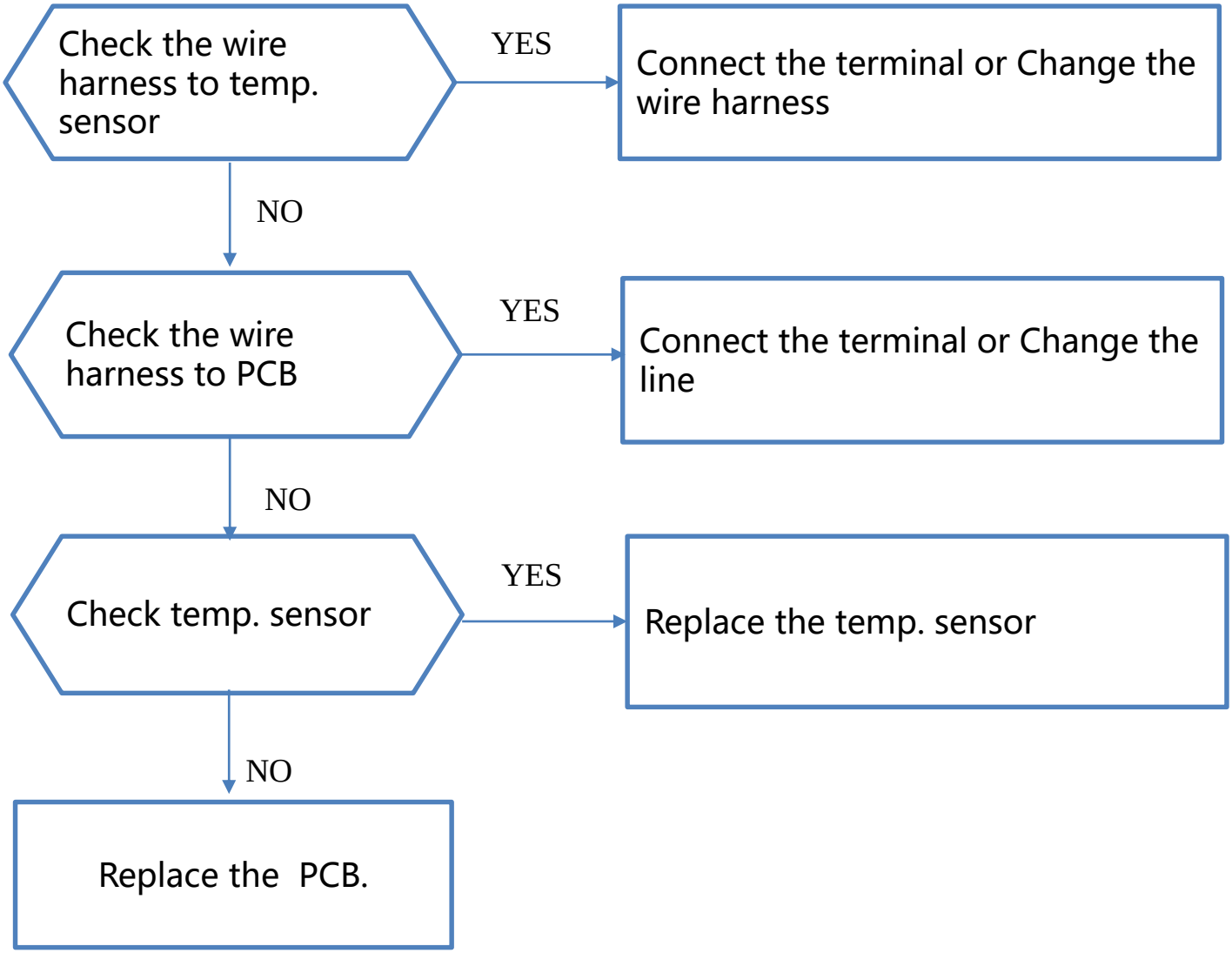
- Define: The temp. sensor of exhaust port does not receive the change of temperature

- Reasons: Short circuit or open circuit of temp. sensor of exhaust port and wire harness, the E37 code will be given.

Malfunction code	Root Reason	Possible cause
E38	Short circuit or open circuit of temp. sensor of exhaust port and wire harness, the E37 code will be given.	The wire harness to temperature sensor does not work or the terminal is loose
		The wire harness to PCB is broken or the terminal is loose
		Temp. sensor does not work

E38

➢ Check Procedure:

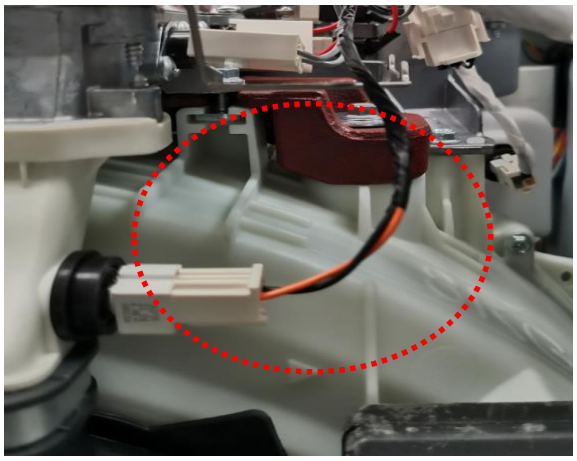


E38

➢ Check Procedure:

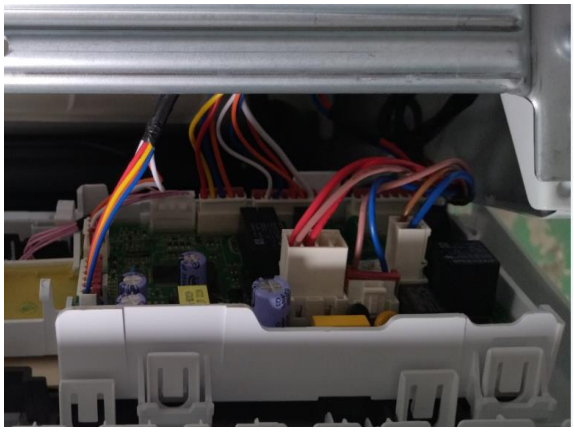
Step1

Check if the wire harness to temp. sensor does not work or the terminal is loose



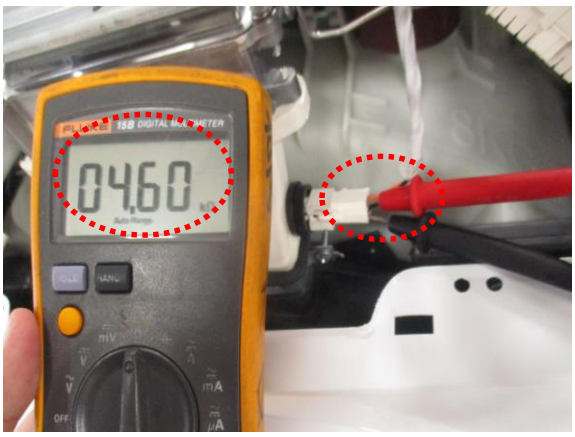
Step2

Check if the wire harness to PCB is broken or the terminal is loose



Step3

Taking off temp. sensor and measuring the resistance of sensor with ohmmeter.(normal value : 4.8kΩ±10%)



E50

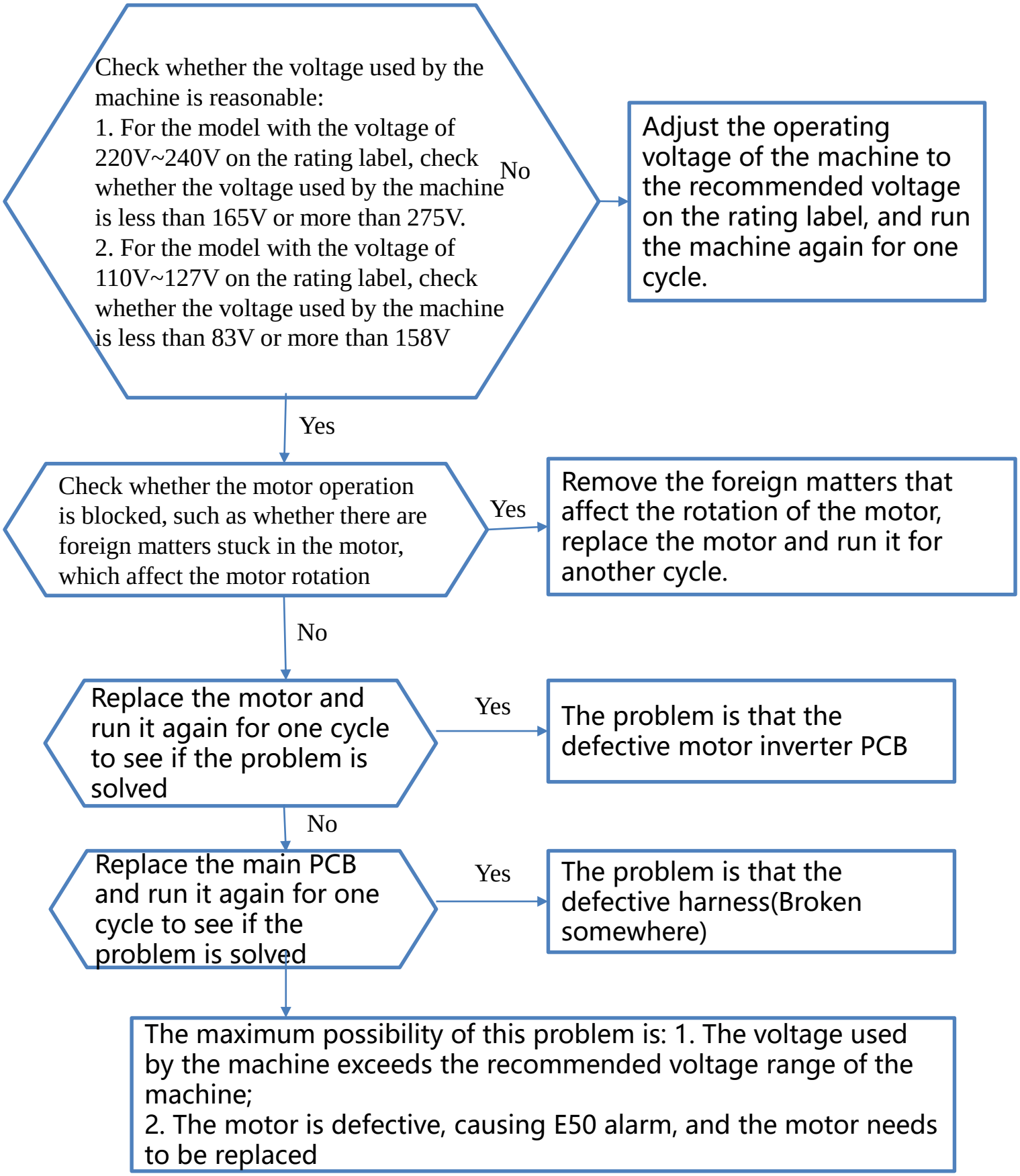
- Define: Motor inverter PCB detects abnormal signals and show the error
- Reasons: Motor inverter PCB detects abnormal signals and show the error. It is mainly divided into the following four categories, each of which has detailed adverse causes.

(a) : The external voltage is abnormal, which causes the motor inverter PCB to judge that the voltage is too high or too low
(b) : The motor inverter PCB is overloaded ->It may be that the motor rotation is blocked, causing the motor inverter PCB to overload
(c) : The motor inverter PCB is damaged, causing the motor inverter PCB to detect excessive current or abnormal IPM temperature sampling.
(d) : The motor inverter PCB is abnormal due to the main PCB issue. There are the following situations: 1) The motor speed signal cannot be detected; 2) Due to the abnormality of the main PCB, the temperature of the motor inverter PCB is abnormal, and the motor temperature is misjudged to be too high; 3) The motor inverter read the information (Flash) incorrectly due to the defective motor inverter PCB.

Malfunction code	Root Reason	Possible cause
E50	Motor inverter PCB detects abnormal signals and show the error	The external voltage is abnormal, which causes the motor inverter PCB to judge that the voltage is too high or too low
		The motor inverter PCB is overloaded ->It may be that the motor rotation is blocked, causing the motor inverter PCB to overload
		The motor inverter PCB is damaged, causing the motor inverter PCB to detect excessive current or abnormal IPM temperature sampling.
		The motor inverter PCB is abnormal due to the main PCB issue. There are the following situations: 1) The motor speed signal cannot be detected; 2) Due to the abnormality of the main PCB, the temperature of the motor inverter PCB is abnormal, and the motor temperature is misjudged to be too high; 3) The motor inverter read the information (Flash) incorrectly due to the defective motor inverter PCB.

E50

➢ Check Procedure:



E50

➢ Check Procedure:

Step 1 Check whether the voltage used by the machine is reasonable:

1. For the model with the voltage of 220V~240V on the rating label, check whether the voltage used by the machine is less than 165V or more than 275V.
2. For the model with the voltage of 110V~127V on the rating label, check whether the voltage used by the machine is less than 83V or more than 158V

① Use a multimeter to measure the voltage of the socket (Fig.1)
② 1) For the model with the voltage of 220V~240V on the rating label, check whether the voltage used by the machine is less than 165V or more than 275V.
2) For the model with the voltage of 110V~127V on the rating label, check whether the voltage used by the machine is less than 83V or more than 158V



Fig.1

Step 2 Check whether the motor operation is blocked, such as whether there are foreign matters stuck in the motor, which affect the motor rotation

① Check whether the motor operation is blocked, such as whether there are foreign matters stuck in the motor, which affect the motor rotation.



Fig.2

E50

➢ Check Procedure:

Step 3 Replace the motor and run it again for one cycle to see if the problem is solved

① Remove the Belt. (Fig.3)
② Disassemble the bolt of pulley and pull out the pulley. Disassemble the connector of motor. Disassemble 2 screws on the motor. (Fig.4)
③ Replace the motor.



Fig.3



Fig.4

Step 4 Replace the main PCB and check whether the problem can be solved

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.5)
② Remove the 4 screws of control panel. (Fig.6)
③ Replace the main PCB. (Fig.7)



Fig.5





Fig.6



Fig.7

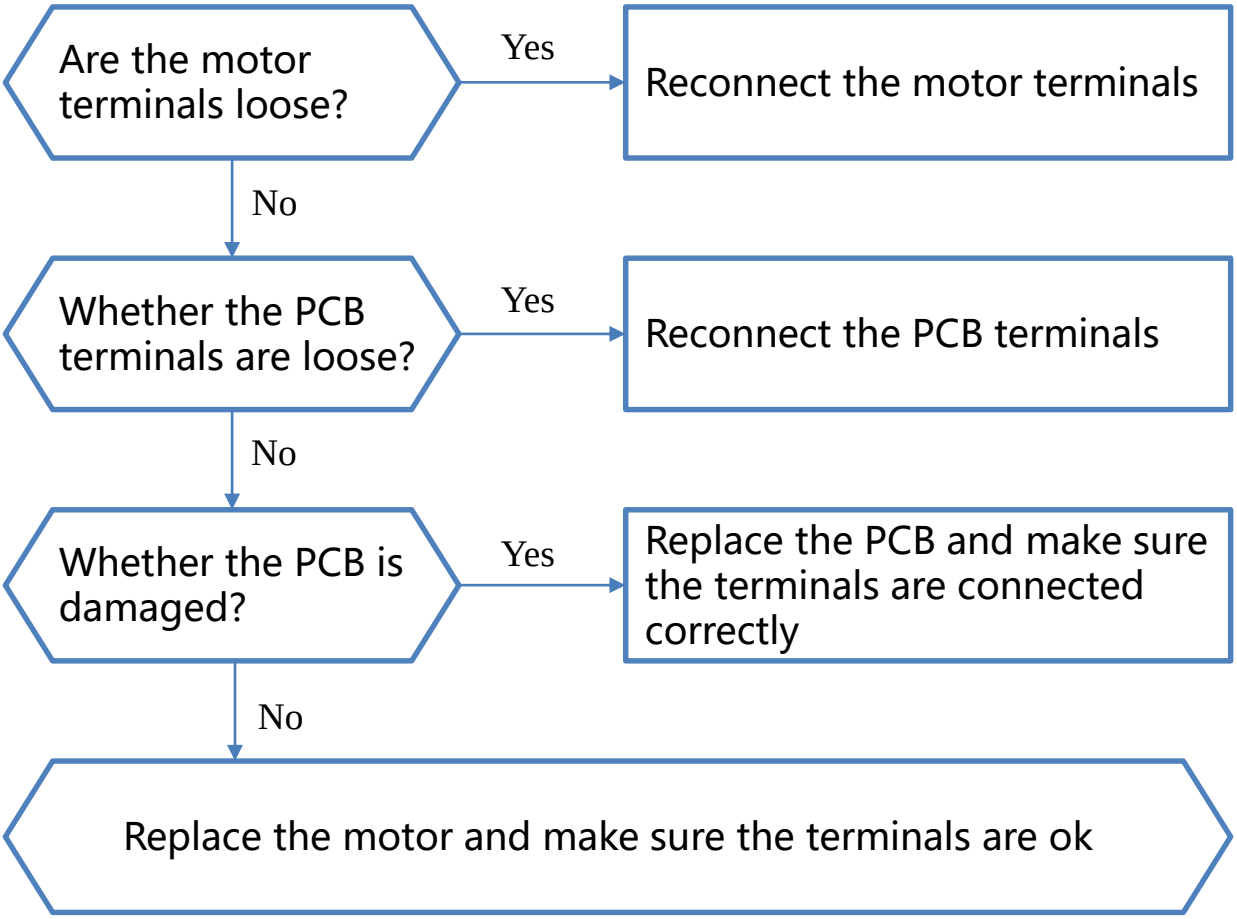
E60

- Define: The motor does not rotate
- Reasons: The root reason is the motor failed to start 5 times

Malfunction code	Root Reason	Possible cause
E60	The root reason is the motor failed to start 5 times	The PCB terminals is loose
		The PCB is damaged
		The motor terminals is loose
		The motor is damaged

E60

➢ Check Procedure:



E60

➢ Check Procedure:

Step 1 Check the motor terminals

① Disassemble the 4 screws of the rear cover. (Fig.1)
② Remove the rear cover and then dump the washing machine. (Fig.2)
③ Check the motor terminals and reconnect them if they are loose. (Fig.3)



Fig.1



Fig.2

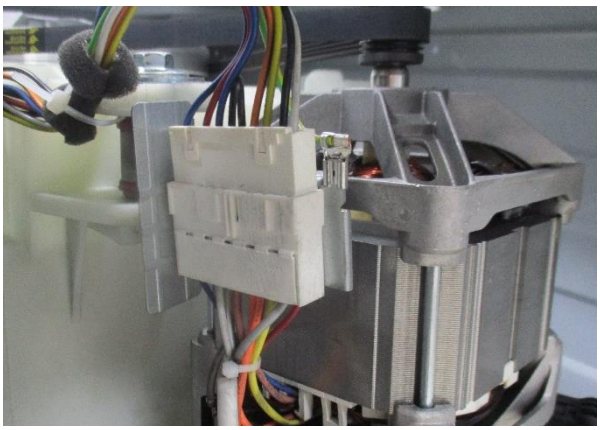


Fig.3

Step 2 Check the PCB terminals

① Disassemble the 2 screws of the top cover plate. (Fig.4)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.5)
③ Check the PCB terminals and reconnect them if they are loose. (Fig.6)



Fig.4



Fig.5

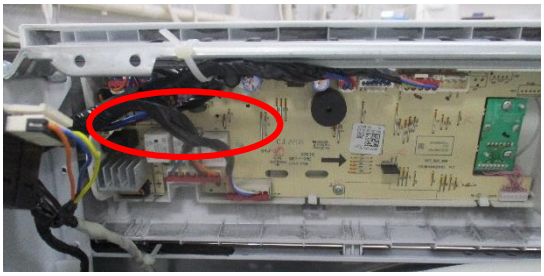


Fig.6

Step 3 Check the PCB

① Disassemble the 2 screws of the top cover plate. (Fig.4)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.5)
③ Check the PCB and replace it if it is damaged . (Fig.6)

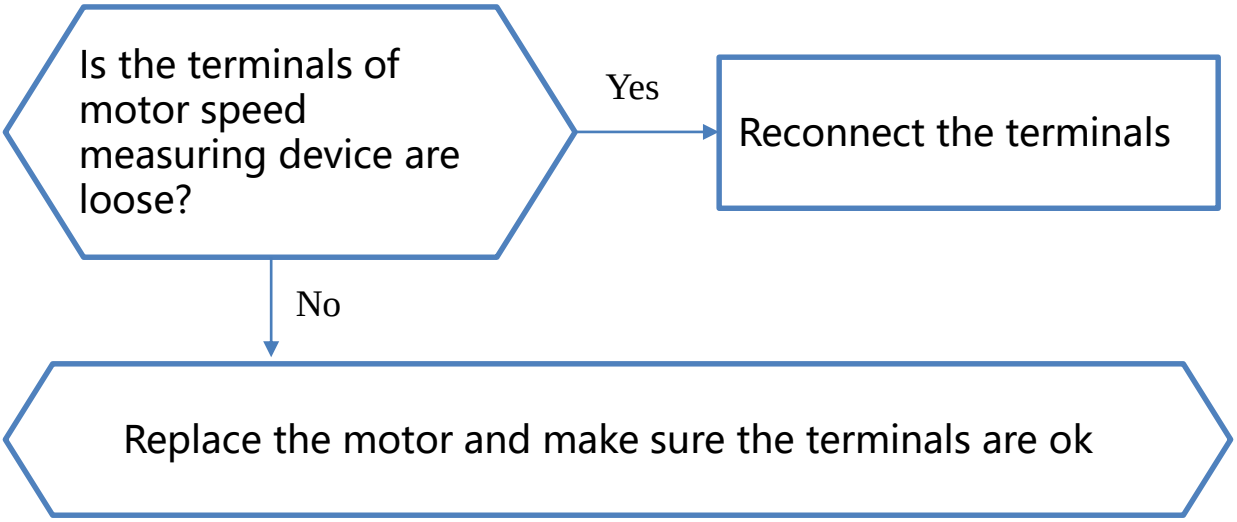
E61

- Define: The PCB cannot detect the speed feedback signal for 5 times
- Reasons: When the motor continues to rotate, the speed measured by the PCB is less than 15prm for 3 seconds.

Malfunction code	Root Reason	Possible cause
E61	When the motor continues to rotate, the speed measured by the PCB is less than 15prm for 3 seconds.	The terminals of motor speed measuring device are loose
		The motor is damaged

E61

➢ Check Procedure:



E61

➢ Check Procedure:

Step 1 Check the motor terminals

① Disassemble the 4 screws of the rear cover. (Fig.1)
② Remove the rear cover and then dump the washing machine. (Fig.2)
③ Check the terminals of motor speed measuring device s and reconnect them if they are loose. (Fig.3)



Fig.1



Fig.2

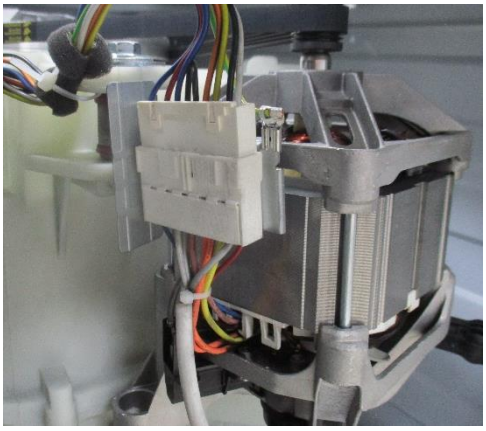


Fig.3

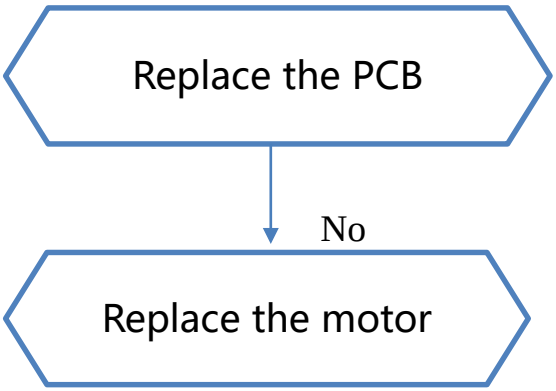
E62

- Define: The actual motor speed is 300prm higher than the target speed
- Reasons: The root reason is the SCR on the PCB is damaged

Malfunction code	Root Reason	Possible cause
E62	The SCR on the PCB is damaged	The SCR on the PCB is damaged
		The motor speed measuring device is damaged

E62

- Check Procedure:



E62

➢ Check Procedure:

Step 1 Replace the PCB

① Disassemble the 2 screws of the top cover plate. (Fig.1)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.2)
③ Disassemble the 2 screws on the control panel. (Fig.2)
④ After opening the drawer, press the blue siphon cap according to the text prompts, and take out the drawer at the same time. (Fig.3)
⑤ Disassemble the 2 screws on the control panel. (Fig.4)
⑥ Remove the terminals on the PCB.
⑦ Disassemble the 2 screws on the PCB and take out it.
⑧ Replace a new PCB and reassemble the washing machine.



Fig.1



Fig.2

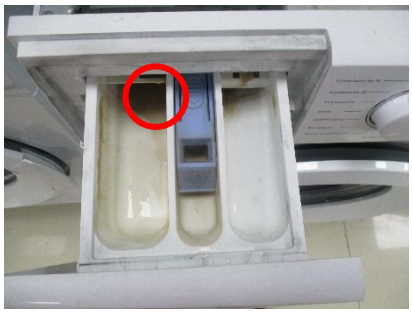


Fig.3



Fig.4

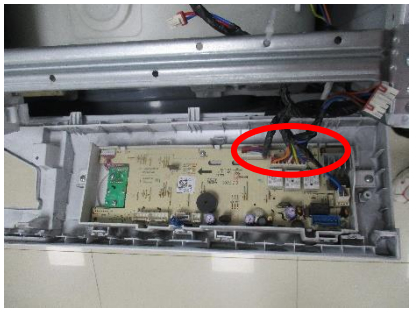


Fig.5

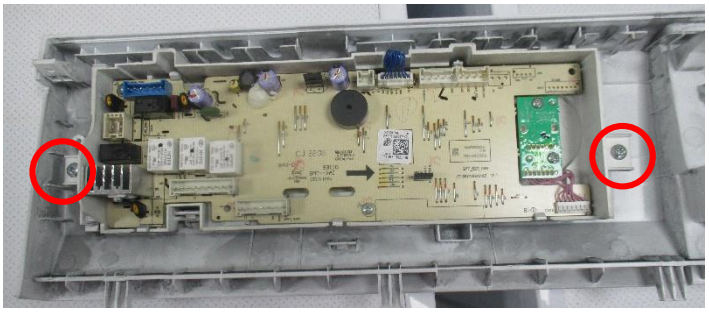


Fig.6

E62

➢ Check Procedure:

Step 2 Replace the motor

① Disassemble the 4 screws of the rear cover. (Fig.1)
② Remove the rear cover and then remove the belt. (Fig.2)
③ After the soft things are on the floor mat, the washing machine is dumped forward and downward.
④ Disassemble the screw on the rear tub and remove the terminal connecting the motor. (Fig.2)
⑤ Take out the motor upwards and replace it with a new one.



Fig.1



Fig.2

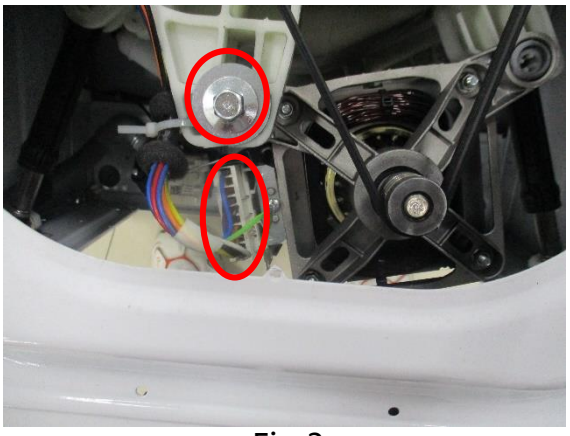


Fig.3

E64

- Define: Motor inverter PCB error （Only BLDC model have this error code）
- Reasons: Poor communication between main PCB board and motor inverter PCB (abnormal signal transmission) 。

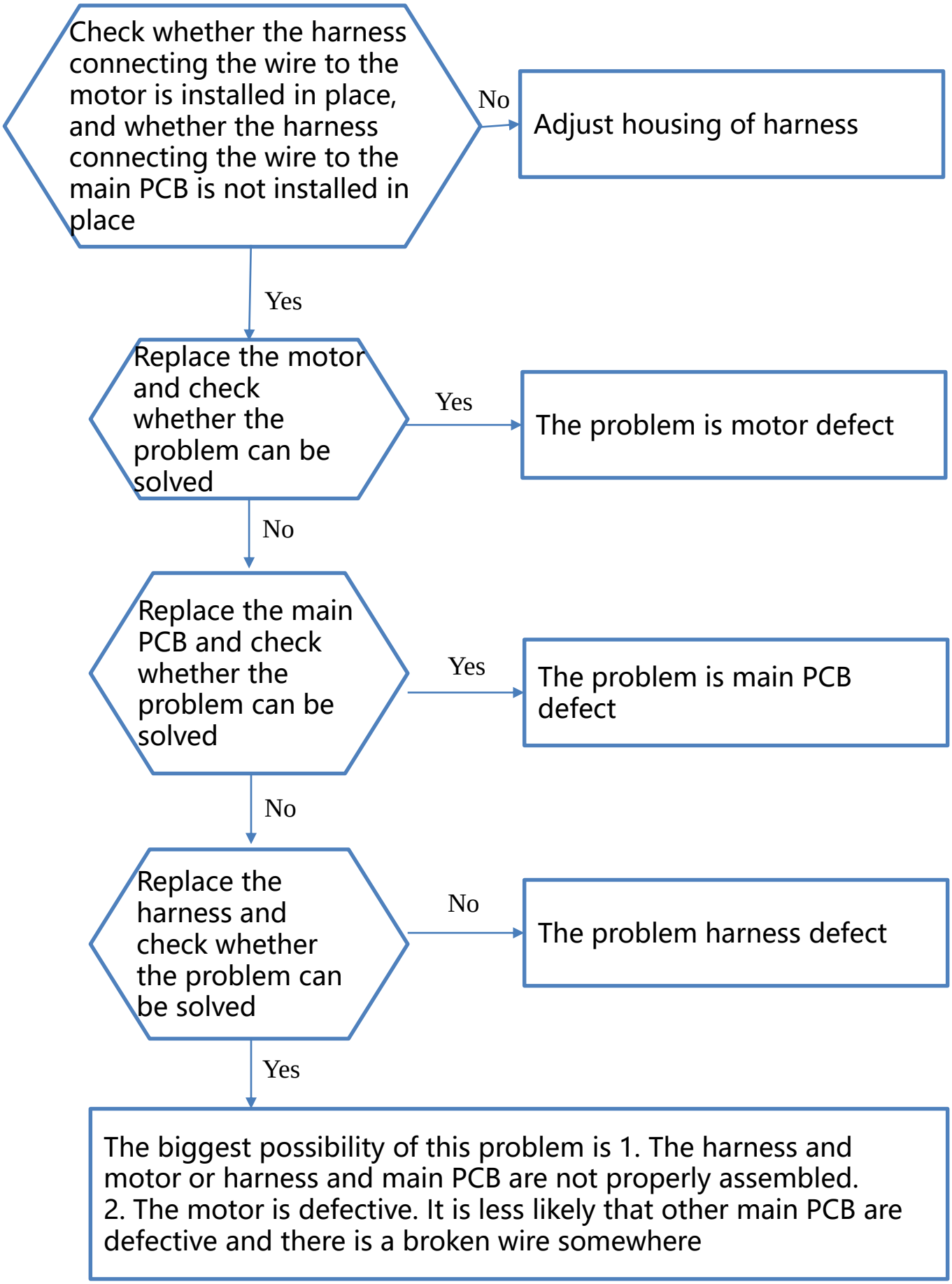
(a) : Press the start button, and the main PCB board sends a command to communicate with the motor inverter PCB. If there is no reply from the motor inverter PCB within 20 seconds, it is considered as communication failure. After disconnecting the power supply of the motor inverter PCB for 2 minutes (resetting the motor inverter), power on again and try to send a command to connect the motor inverter. If communication is successful, start the operation. If it fails, give a direct alarm. A total of 7 attempts are made.

(b) : During operation, the main PCB board sends a command to communicate with the motor inverter PCB. If there is no reply from the motor inverter within 20 seconds, it is considered as communication failure. After disconnecting the power supply of the motor inverter for 2 minutes (resetting the motor inverter), power on again and try to send a command to communicate with the motor inverter. If the communication is successful, the operation will resume. Otherwise, after trying the above methods for 7 times, the communication fails and gives an alarm. Totally try 15 times.

Malfunction code	Root Reason	Possible cause
E64 (Only BLDC model have this error code)	Poor communication between main PCB board and motor inverter PCB (abnormal signal transmission)	Harness in connecting wire and motor is not installed in place, or harness in connecting wire and main PCB is not installed in place
		The motor inverter PCB is damaged (the components are damaged)
		Defective main PCB
		Broken harness (wires connecting main PCB and motor inverter)

E64

➢ Check Procedure:



E64

➢ Check Procedure:

Step 1 Check whether the harness connecting the wire to the motor is installed in place, and whether the harness connecting the wire to the main PCB is not installed in place

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.1)
② Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.2)
③ Check whether the harness connecting the wire to the main PCB is installed in place.(Fig.3)
④ Remove the 4 screws of the rear cover, and show the motor. (Fig.4 & Fig.5)
⑤ Check whether the harness connecting the wire to the motor is installed in place.(Fig.6)



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5

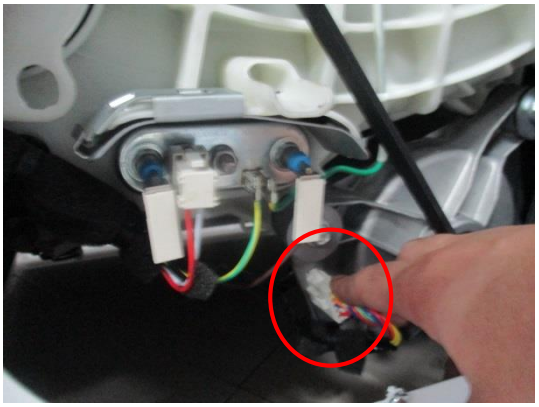


Fig.6

Step 2 Replace the motor and check whether the problem can be solved

① Remove the Belt. (Fig.7)
② Disassemble the bolt of pulley and pull out the pulley. Disassemble the connector of motor. Disassemble 2 screws on the motor. (Fig.8)
③ Replace the motor.



Fig.7



Fig.8

E64

➢ Check Procedure:

Step 3 Replace the main PCB and check whether the problem can be solved

① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.1)
② Remove the 4 screws of control panel. (Fig.9)
③ Replace the main PCB. (Fig.10)



Fig.1



Fig.9



Fig.10

Step 4 Replace the harness and check whether the problem can be solved

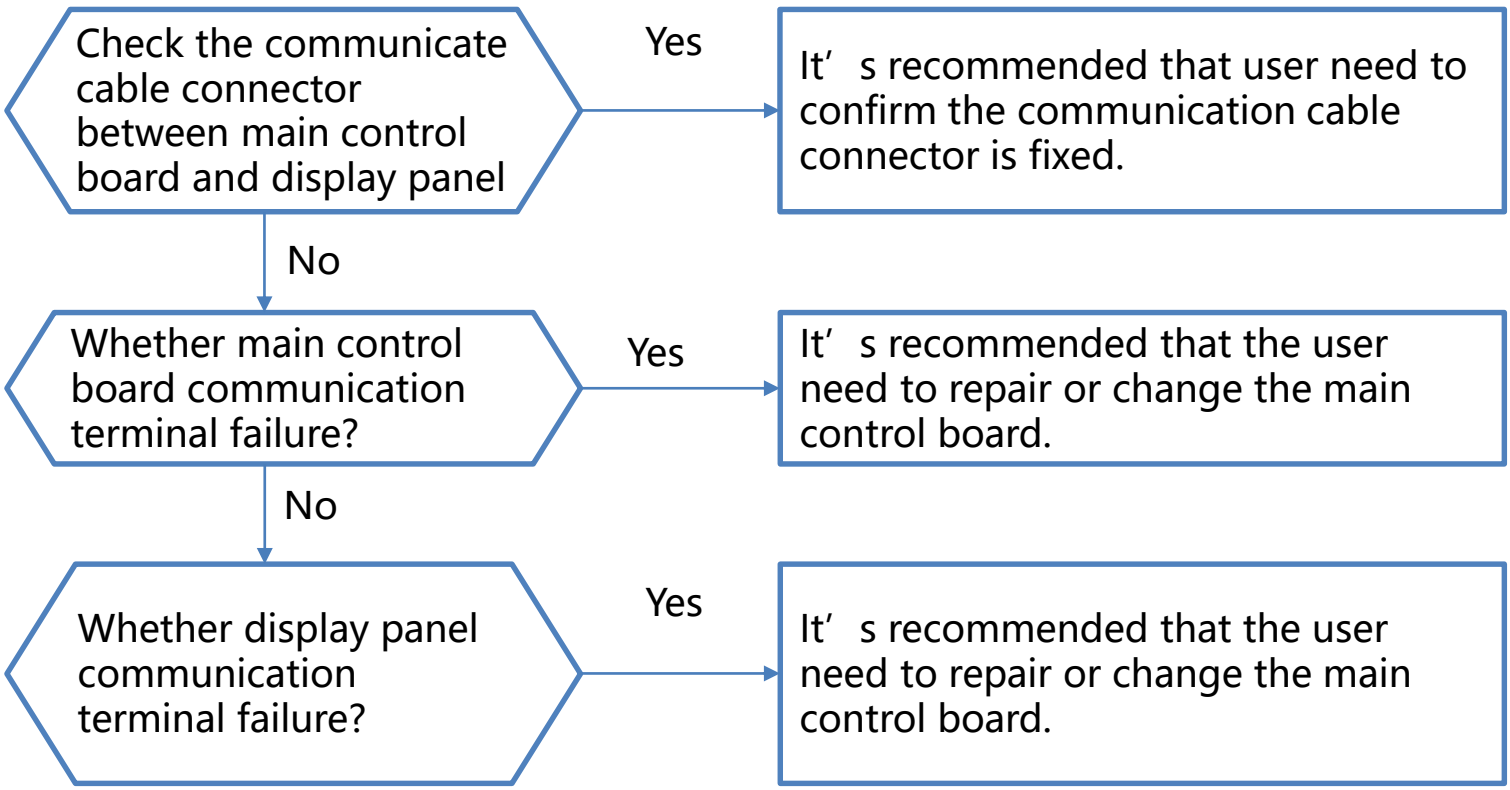
① Close the tap and disassemble the 2 screws of the top cover plate. (Fig.1)
② To replace the main harness, remove all housing of the main harness. And replace the main harness with a new one.

E80

- Define: Communication error alarm.
- Reasons: There is no communication between main control board and display panel.

Malfunction code	Root Reason	Possible cause
E80	There is no communication between main control board and display panel	Check the communicate cable connector between main control board and display panel
		Main control board communication terminal failure
		Display panel communication terminal failure

- Check Procedure:



E80

➢ Check Procedure:

Step 1 Check the connector between main control board and display panel

① If the communication cable connector is loosen the E80 warning will occur when the washing machine is running. It' s recommended that user need to confirm the communication cable connector is fixed.. (Fig.1)

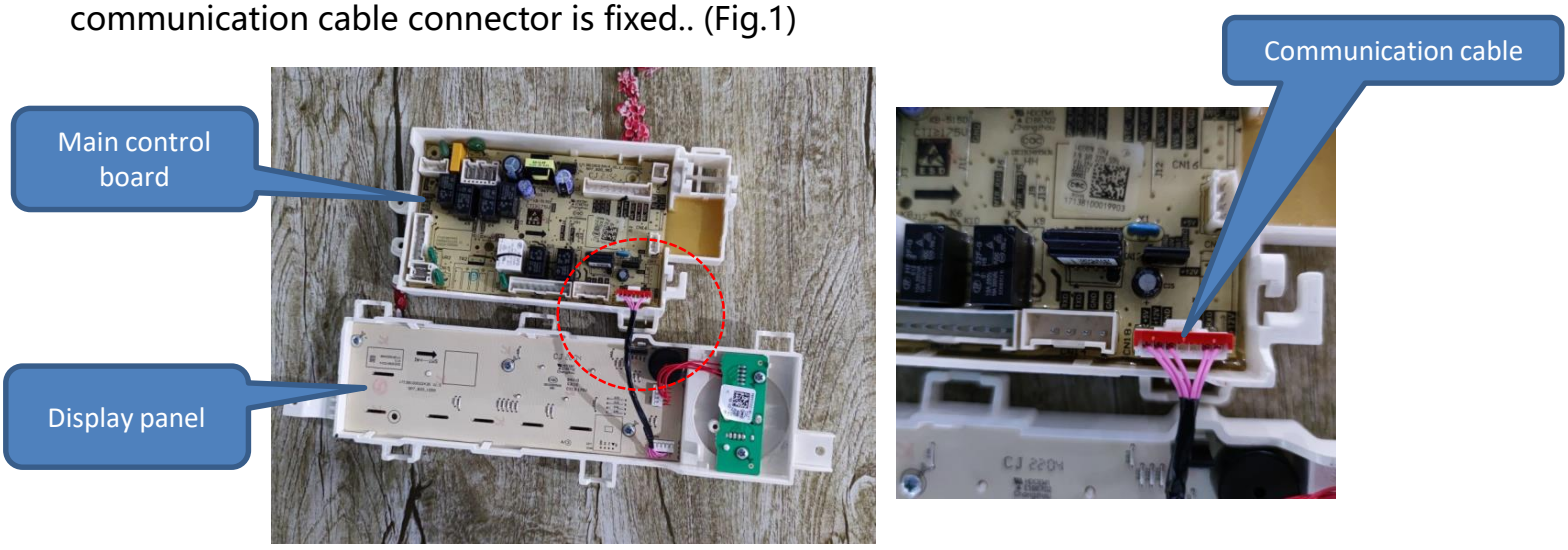


Fig.1

Step 2 Main control board communication terminal failure

① Check whether the communication terminal is damaged, if it' s damaged the E80 warning will occur . It' s recommended that the user need to repair or change the main control board. (Fig.2)

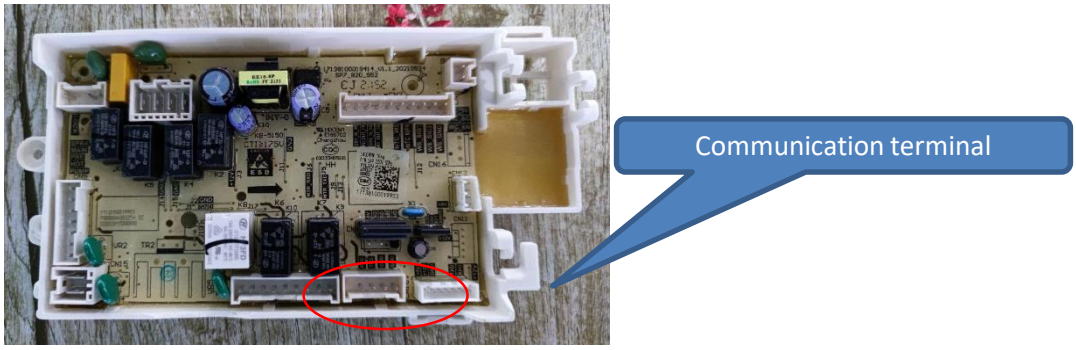


Fig.2

Step 3 Display panel communication terminal failure

① Check whether the communication terminal is damaged, if it' s damaged the E80 warning will occur . It' s recommended that the user need to repair or change the main control board. (Fig.3)

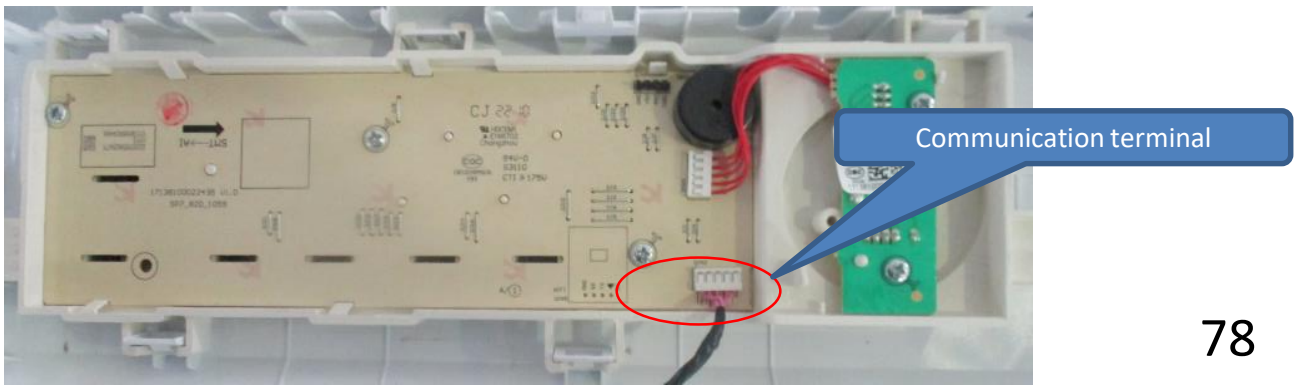


Fig.3

7 TROUBLESHOOTING

TROUBLESHOOTING NOT MACHINE FAULTY

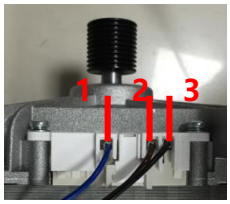
Description	Solution
The washing machine does not work	1.Check whether the power and the water are ok 2.Check whether the door lock is well and the door is closed correctly 3.Check whether the water level sensor is ok
Water leakage	Correctly connect the inlet water pipe.
The speed of the clothes is abnormal	Reload and distribute the laundry evenly in the drum.
There is the peculiar smell in the washing machine	Run a Self clean(Drum clean) cycle without any clothes.
No water is visible in the drum	1.Check whether the water tap is open 2.Check whether the water level sensor is ok 3.Check whether the filter of the inlet valve is blocked
The remaining detergent is left on the clothes	The water-fast component of the non-phosphorus. detergent will be left on the clothes to form the line scale. Please select 【rinse】 or 【 spin 】 programme or brush away the fleck with the brush when the clothes is dried.
The washing machine does not fill	1.Open the water tap. 2.Check the selection of the procedure. 3.Check the water. 4.Pressure to see if the water pressure is insufficient. 5.Put through the feed-water. 6.Close the washing machine's door. 7.To check it the inlet water pipe is bent or blocked.
The washing machine fills and empties at the same time.	1.Make sure the end of the drainage pipe to be higher. 2.Check if the drainage pipe and sewage have been sealed
No drainage of the washing machine	1.Check if the drainage pump is blocked. 2.Check if the drainage pipe is bent or blocked. 3.Check the height of the drainage nozzle, make sure it is 0.6-1.2 meter from the bottom of the washing machine.

7 TROUBLESHOOTING

Vibration of the washing machine	1.Level the washing machine. 2.Fasten the adjustable foot 3.To check if the internal packing for the transportation have all been removed.
The bubble spills from the detergent	1.Check if the detergent is excessive, if it is the specialized detergent for the cylinder washing machine. 2.Dip one scoop of the softener mixed with 1/2 liter of water to the detergent box II. 3.Reduce the usage amount of the detergent in the next time's wash.
The machine stops when the procedure has not been finished	1.Check whether the power is ok 2.Check whether the water is ok
The drainage pump has noise during the operation when the water has just been drained	The inner barrel water of the washing machine has been drained but there is still a small amount of water in the drainage pump and pipe. The drainage pump continuously operates and takes in the air, and at this time there is the noise, which is normal situation.
To stop for some time during the wash procedure	The washing machine adds water automatically. Because there is too much bubble in the tube, the washing machine is cleaning the bubble.
If you cannot solve the above abnormal situations, would you please: **1. To turn the procedure knob to 【OFF】, pull out the attachment plug;** **2. To close the water tap, and contact the nearest service center.**	

8 HOW TO CHECK THE ELECTRIC PARTS

Before repairing, use millimeter to judge the electric parts.

Parts	Picture	Test Description	Parameter	remarks
NTC		Check the resistance	Resistance value range 4-6KΩ–PASS (25℃)	
Water Level Sensor		Check the resistance between 1 and 3	Pin1~Pin3 Resistance value range about 10-50 Ω -PASS	
Door lock		Check the resistance	Pin1~Pin2 Resistance value range 100-300Ω-PASS (Pin1~Pin3 / Pin2~Pin3 No value)	
Water valve		Check the resistance	Resistance value range 3-6KΩ-PASS	
Drain pump		Check the resistance	Resistance value range 150-250Ω-PASS	
Heater		Check the resistance	Resistance value range 20-35Ω-PASS	
Motor		Measure the resistance of the toroids	Resistance value range 1~10Ω-PASS (Pin1~Pin2~Pin3)	

8 HOW TO CHECK THE ELECTRIC PARTS

Before repairing, use millimeter to judge the electric parts.

Parts	Picture	Test Description	Parameter	Remarks
Dry heater		Measuring resistance.	The Resistance should be in range from 30 to 60Ω.-PASS	
Fan flange		Measuring resistance.	The Resistance should be in range from 0.5 to 5Ω.-PASS	
tempe rature sensor		Measuring resistance.	Resistance value is greater than zero or equal to zero.-PASS	

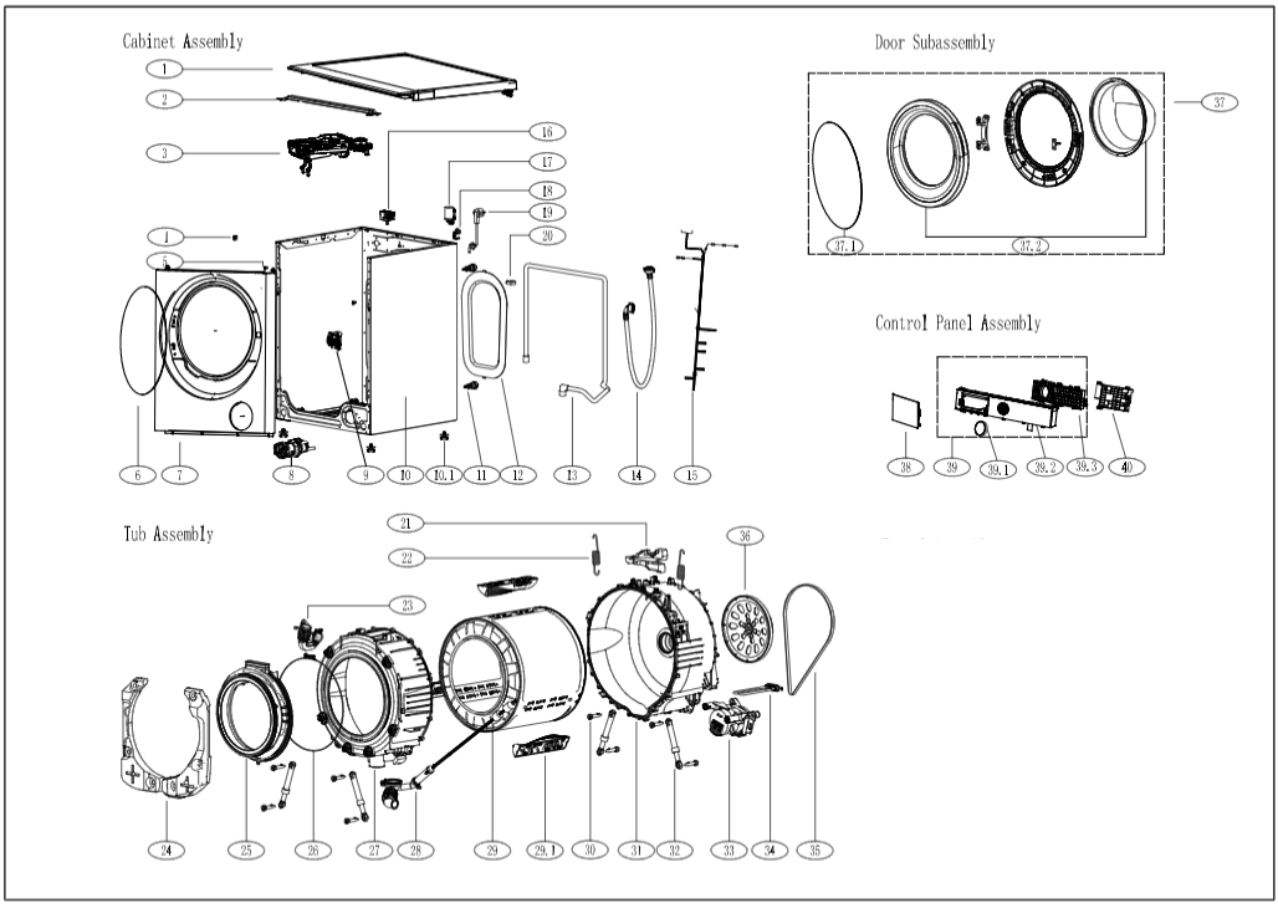
9 CHECK POINT AFTER REPAIR

After repairing, be sure to make the following trial operation to see if the washer operates normally.

Check Point	Inspection & Judgement
1 Insulation resistance	Unplug the cord from the power outlet and turn on all the timers. Then measure the insulation resistance between the plug (both of 2 pins) and Grounding wire of the machine. The measured value should be more than1M□ In the following case, check sufficiently. 1)Replace the electrical part switch new ones. 2)Used in a moist place. 3)Used more than 5 years.
2 Safety designated parts	Replace with the designated parts in the case the used parts are not proper.
3 Wiring	Check to see if the lead wire is properly connected without looseness or Over tension and taping and setting are firmly performed. washer.
4 Screws and Nuts	Check to see if the screws, nuts, etc are firmly tightened and the screw locks are applied
5 Removal of useless matter	Check to see if useless matters (Screws, bits of wire, etc.) are left inside the machine.
6 Leakage of oil and water	Check to see if oil or water leaks out around below-spinning, gear box, motors
7 Power-cord	Check to see if the cord, the plug, the outlet etc., are not damaged. Do not use table Tape with multi-wiring
8 Level Installation.	Check to see if the machine installed horizontally

10 EXPLOADED VIEW AND BOM LIST

MF210 Wash



NOTE:
Please get the updated part list from the service center