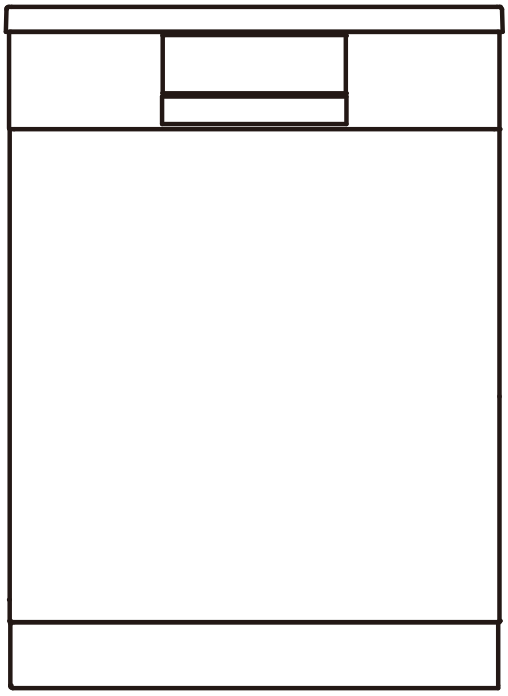
Haier SERVICE MANUAL

DISHWASHER



Model No.

HDW14G2 Series

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Haier Group

Service Manual

Model No: HDW14G2 series

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1. SAFETY

When servicing , Safety issues must be considered at all times. Specific safety issues are listed below with their appropriate icon.

Electrical Safety

Ensure the mains power has been disconnected before servicing the Dishwasher. If the mains supply is required to be on to service the Dishwasher, make sure it is turned off when removing any electrical component or connection to avoid electrical shock.

Electrostatic Discharge

An anti-static strap is to be used as electrical static discharge (ESD) protection when servicing electronic components.

Good Working Practices

Ensure the work area is in a tidy and orderly condition at all times so as not to cause a hazard while service work is being completed. Always clean and tidy the Dishwasher and work area after service is completed.

Isolate Water Supply

Turn off the water connection tap before servicing.

Water Leak Check

Check for water leaks as part of the testing after the service has been completed.

Insulation Test

Megger test to check insulation.
Warning: Short together the phase and neutral pins on the plug so as not to damage any electronic circuitry.

Sheet Metal Edges

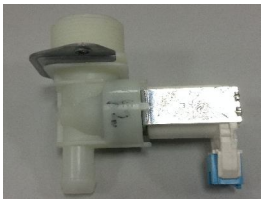
When working around cut sheet metal edges, use appropriate gloves or protection
to eliminate the chance of receiving a laceration.

2. SPECIFICATIONS

2.1 Product Specifications

Model	HDW14G2W / HDW14G2X
Product features	Free Standing
Capacity	
Place setting	14
Dimensions	
Width	59,8 cm
Depth	60.0 cm
Height	85,0 – 87,0 cm
Electrical connection	
Rated input voltage	230V~
Rated input frequency	50Hz
Max Input power	1900W
Fuse	10A
Water supply	
Water input pressure	0.03-1.0MPa(0.3-10ba)
Water input temperature	Cold water

2.2 Component Specifications

Component		Illustration
WASH PUMP	Part Code: 0120400062A	
voltage	230-240V~	
wattage	65W	
resistance	39 Ω	
outlet pressure	300m bar(0.03MPa)	
pump rate (liters /min)	52	
IHEATING ELEMENT	Part Code: 0120400062A	
voltage	230V ~	
wattage	1800W	
Resistance	29.4(±5%)Ω	
over heat protection (self reset)	100(±5%)℃	
over heat protection (non reset)	206^{0}_{-1}℃	
INLET VALVE	Part Code: 0120400055A	
voltage	220-240V AC	
wattage	6W	
resistance	4050Ω	
flow rate (liters/min)	2.5	
DRAIN PUMP	Part Code: 0120400050	
voltage	220-240V~	
wattage	30 W	
resistance	209Ω	
thermal protection (℃)	145	
pump rate (liters/min)	20	
TURBIDITY SENSOR	Part Code: 0120400076	
NTC	Integrated in turbidity sensor	
resistance (at 100℃)	635Ω	
resistance (at 25℃)	10kΩ	
Air-break with FLOW METER	Part Code: 0120400084B	/
pulse	217 +/- 6 ; 2.5% per liters	
DETERGENT DISPENSER	Part Code: 0120400073	
coil resistance	1320Ω	
main wash bucket	Min 60 ml	
pre wash bucket	8-10 ml	
RINSE AID		
rinse aid setting 1-6	1-6ml/Pulse control	

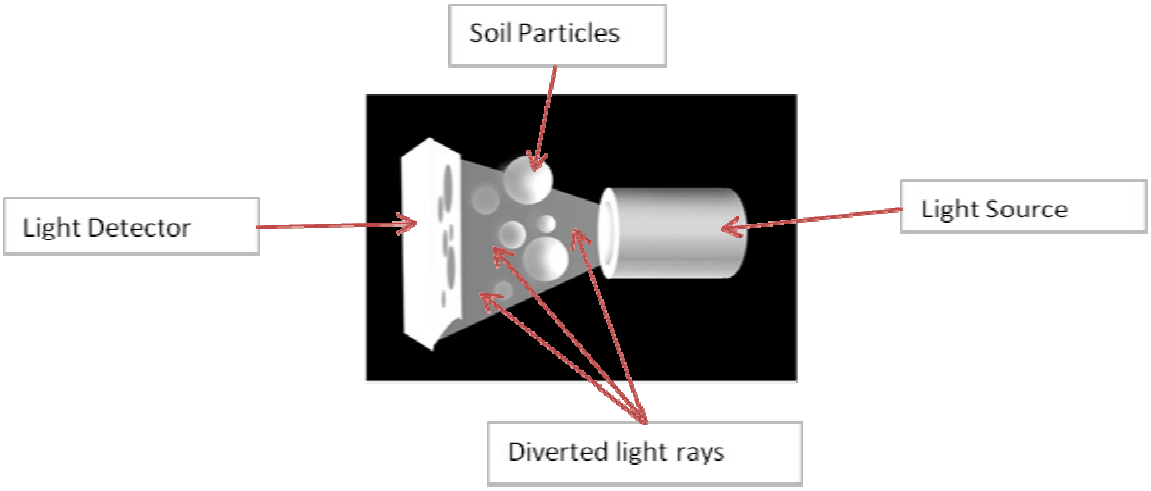
2.2.1 Flood Protection

Float and micro switch. The drain pump will run and the UI board will display E30 when the flood switch is activated.

2.2.2 High Performance Turbidity Sensor Integrated NTC

A highly sensitive submersible optical sensor, which monitors water environment and determines the best program to use (based on how dirty the water is). Light is passed from the light transmitter to the light detector. The light detected will depend on how dirty the water is and the product will select a cycle to suit the environment.

The sensor assembly a NTC to detect the temperature of the water at same time.



2.2.3 Drain Filter

■ Twist the filter cylinder anticlockwise to unlock the bayonet mechanism. Lift up and out of the main filter plate.

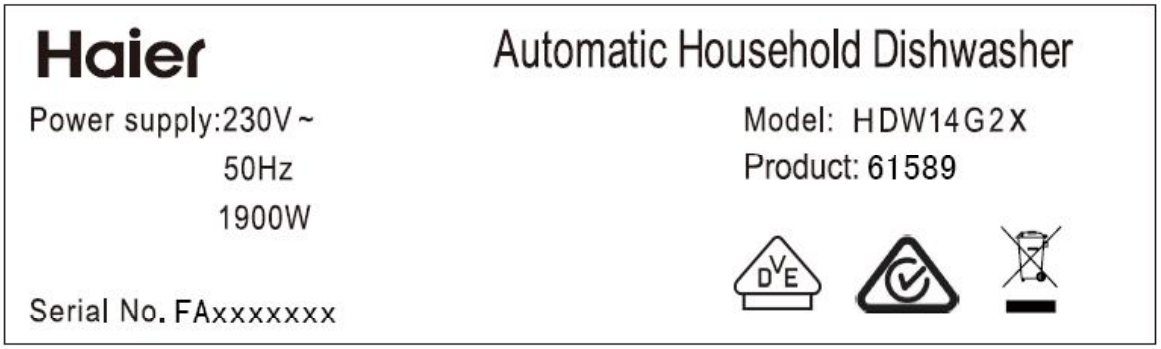
■ The main filter can then be removed.

■ To unlock the coarse filter from the mesh filter, press on the two tongues at the top of the cylinder.

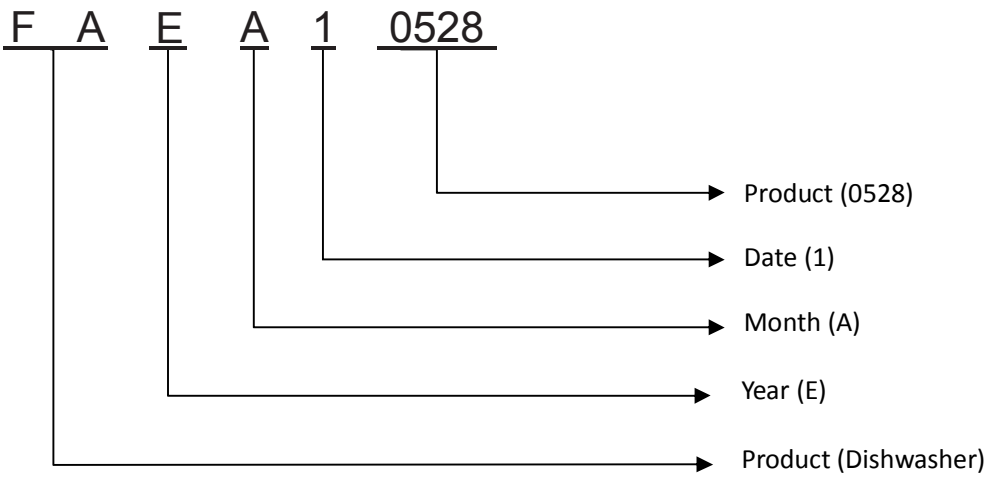
3.RATING PLATE

■ The serial label bar code is located on the rating plate stick on the left side of the inner door.

Model - as shown



Serial Number:



Year

E	F	G	H
2014	2015	2016	2017

Month

1	2	3	4	5	6	7	8	9	A	B	C
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

Date

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**S**
27	28	29	30	31																					
T	**U**	**V**	**W**	**X**																					

4. INSTALLATION

Warning:

Do not lay the product on its left hand side as this may cause the water level pressure switch to malfunction.

Seal bare wood surfaces in the vicinity of the dishwasher to prevent steam damage.

4.1 Water Connection

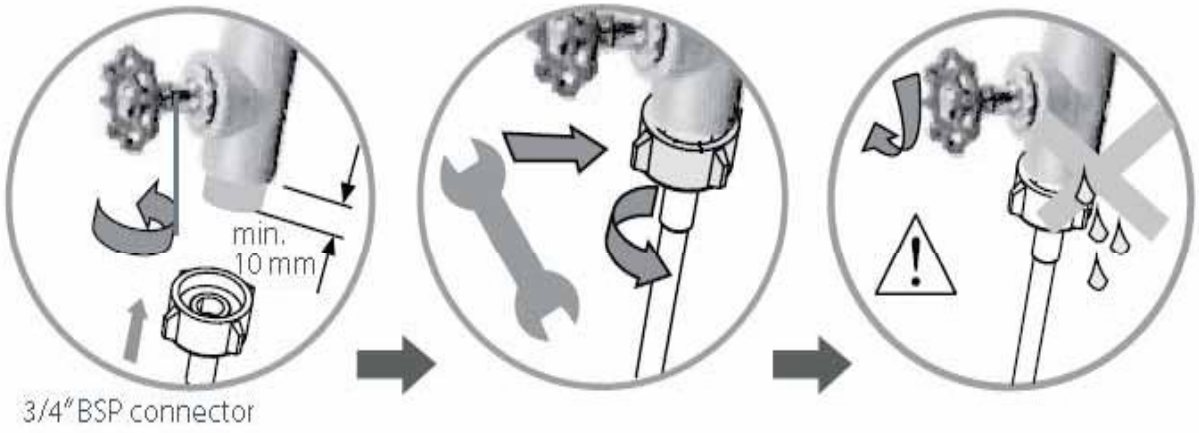
Important!

■ The appliance should be connected to the water main using the new water inlet hose supplied. Old hoses should not be used.

■ Do not shorten the inlet hose.

■ Tighten the hose coupling a further half turn after seal contact.

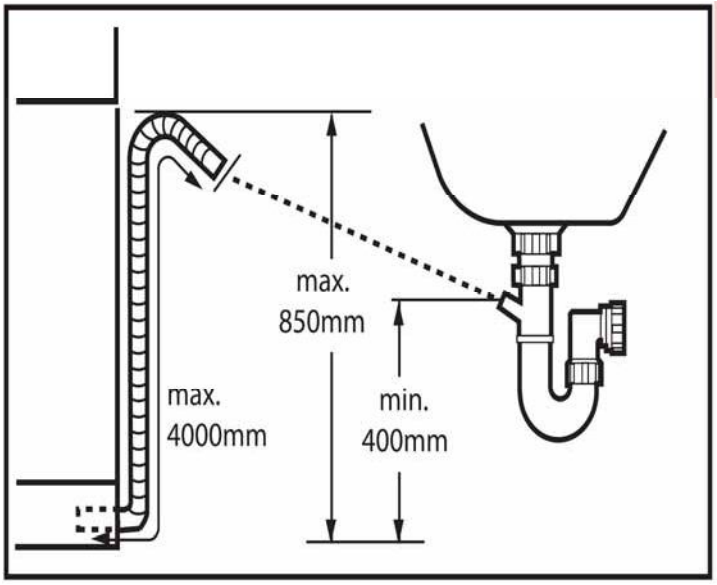
■ Check that the connection does not leak.



4.2 Drain Connection

Fix the water drain hose properly to the piping. To prevent leackages, kinking and coming off fix it additionally with the U-support in the by-pack.

An extension hose for the water drain hose must not exceed a total length of 4 m and must have the same diameter as the water drain hose



If the water drain hose is connected to:

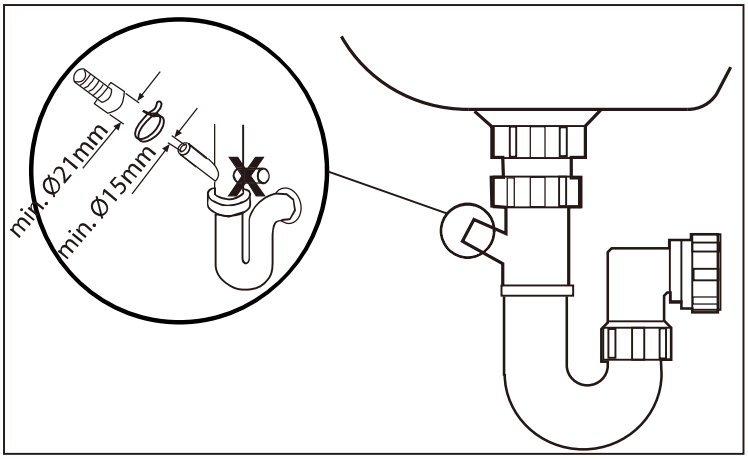
• the sink spigot:

Secure the water drain hose under the kitchen counter.

• a stand pipe with vent-hole:

The internal diameter must be minimum 40 mm.

Remove the sink plug when the appliance drains. This prevents water to go back to the appliance.

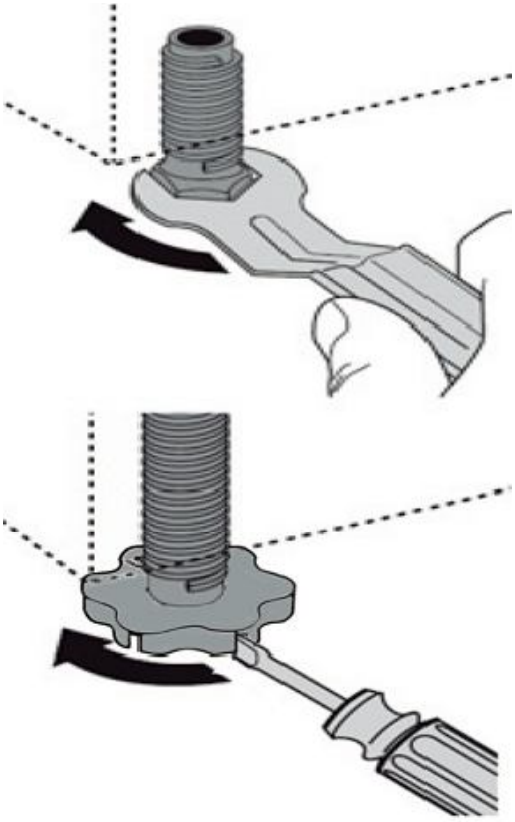


Drain hose to sink connection

- When connecting the drain hose to a sink trap with a drain hose spigot, make sure that the drain hose is supported to the height of the bench.
- Ensure the drain spigot has a minimum hole diameter of 15 mm and it has been drilled out.

4.3 Free Standing

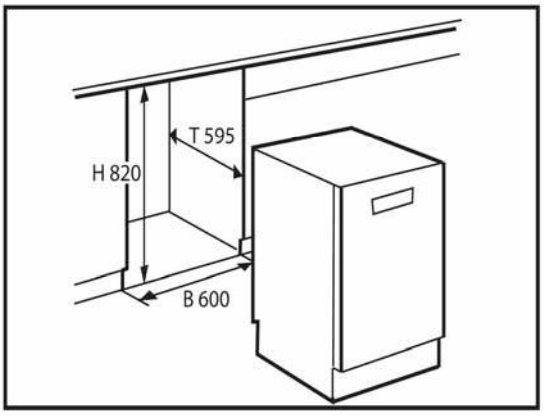
1. Install the appliance on a firm floor
2. Loosen or tighten the adjustable feet (front and back) for a stable and level position.
Depending on the implementation you need an open jaw wrench or a screw driver.



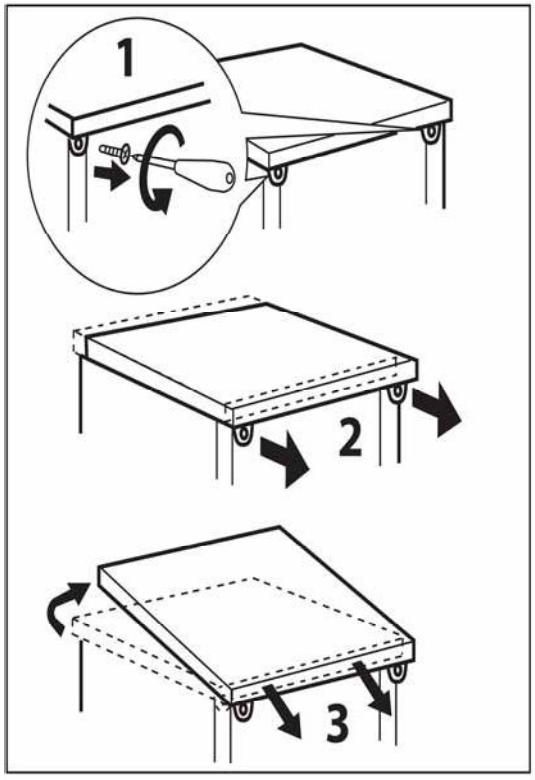
INFORMATION!

Only with a correct level the appliance door closes and seals correctly.

4.4 Installation under Kitchen Counter



1. Make sure that the dimensions of the recess agree with the dimensions in the figure.
2. Remove the worktop of the appliance.
3. Put the appliance adjacent to a water tap and a water drain.
4. Install the appliance under the kitchen counter.
5. Loosen or tighten the adjustable feet for a level position.



WARNING!
If used as free standing appliance again, the worktop must be remounted.

4.5 Electrical Connection

WARNING!
This appliance must be earthed.
Any electrical work required to install this appliance may be carried out by a qualified electrician only. Refer to “SAFETY”.

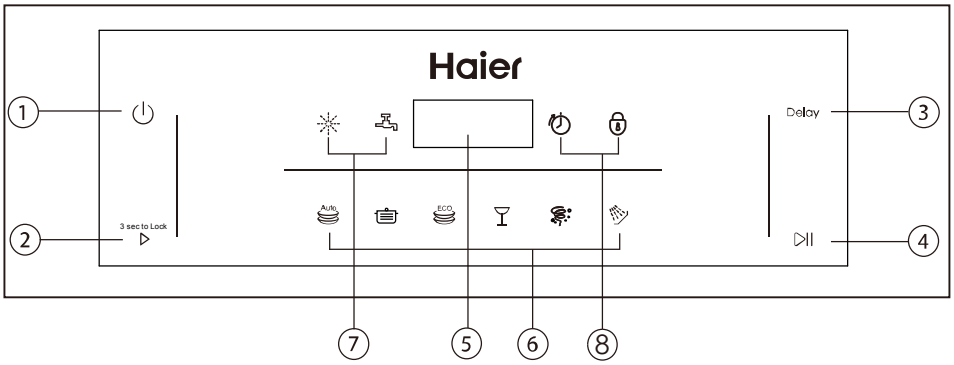
The socket must be attached near the dishwasher and be freely accessible.
For electrical requirements refer to „TECHNICAL INFORMATION“.

The supllied power cord has been connected to the appliance socket outlet.

Connect the power plug to the mains socket.

5. OPERATION

5.1 Control-Panel



1. ON / OFF button ⏻
2. PROGRAMME SELECT button ▷
3. START DELAY button Delay
4. START / PAUSE button ▷||
5. Time & Info Display
6. Programme Indicators
7. Deficit Indicators
   - Rinse aid indicator
   - Water tap indicator
8. Option Indication
   - Delay start indicator
   - Child Lock indicator

Time & Info display

During any selection the display shows by flashing related information like

- Programme cycle time
- Programme start delay time
- Error codes and service information

After start of an operation it displays without flashing:

- Remaining time in hours of a delayed programme starts, e.g. 24h
- Remaining programme cycle time in hours + minutes, e.g. 1:59

  While running it may vary due to local conditions and daily working load.

Deficit Indicators

	Rinse aid	If the indicator lights up: Rinse aid is empty! This indicator is off while the programme operates.
	Water	If the indicator lights up: The appliance does not fill with water. Check section: "TROUBLESHOOTING"

Option Indication

	Delay start	You can delay the start of a programme in 1 hour steps up to 24 hours. Check the according paragraph under "Daily use".
	Child Lock	To active or cancel Child lock, press and hold ▷ until the Child lock indicator comes on

6. WASH PROGRAMS

6.1 Wash Program Chart

Programme	Type of food residue	Type of load
Auto Auto 45–70°C [1]	Light to heavy soil: Casseroles, sauces, potatoes, pasta, rice, roasted or fried food	Non-delicate: Dinnerware, cutlery, pots and pans
Heavy 70°C	Heavy soil: Casseroles, sauces, potatoes, pasta , rice, roasted or fried food	Non-delicate: Dinnerware, cutlery, pots and pans
ECO ECO 50°C	Normal soil: Soups, eggs, sauces, potatoes, pasta, rice, roasted or fried food	Non-delicate: Dinnerware cutlery, glassware
Glass-Auto	Light soil: Coffee, cake, milk, cold drinks, salad , sausages	Delicate: Glassware, dinnerware, cutleey
Fast 30min[2]	Fresh soil: Coffee, cake, milk, cold drinks , salad , sausages	Non-delicate: Dinnerware, cutlery, glassware
Rinse [3]	Dishes to be stored for a few days before washing	All: Dinnerware, cutlery, glassware, pots and pans

1) The appliance senses the type of soil and the quantity of items in the baskets. It automatically adjusts the temperature and quantity of water, energy consumption and programme duration.
2) With this programme you can wash a load with fresh soil. It gives good washing results in a short time.
3) Use this programme to quickly rinse the dishes. This prevents the remaining food to bond on the dishes and bad odours to come out from the appliance. Do not use detergent with this programme!

6.2 before first use

First Steps

Remove all packaging materials, keep them out of childrens reach and dispose them in an environmentally friendly manner. There could be water residue inside the appliance due to quality checks in the factory.

Perform the following steps:

1. Install the appliance.
   - ► Refer to section INSTALLATION.
2. Only for use of Multitabs: Adjust the rinse aid setting.
   - ► Refer to section DIFFERENT SETTINGS FOR RINSE AID.
3. Fill the rinse aid dispenser.
   - ► Refer to section HOW TO FILL THE RINSE AID DISPENSER.
4. Open the water tap.
5. Start any wash programme (apart from 20 minutes programme) with detergent but no load to remove possible manufacturing residues.

Activate / De-Activate the Buzzer

An accoustic signal informs about the end of a programme. This signal can be switched off.

Refer to section HOW TO ADJUST SETTINGS and select the b-setting:

- ► If the display shows b0 the signal is switched off.
- ► If the display shows b1 the signal is switched on.

Different Settings for Rinse Aid

Rinse aid is added during the last rinsing phase to dry the dishes without streaks and stains.

Detergent (e.g. powder, tabs, ...)

- requires separate rinse aid:
  Factory default setting: d5. No settings are necessary.
  The rinse aid is added from the rinse aid dispenser only.

Detergent with multifunction (e.g. Multitabs)

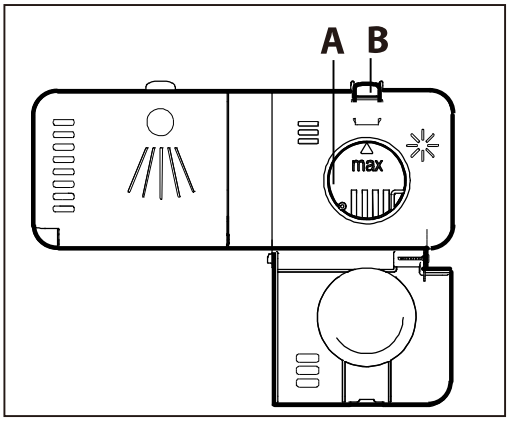
- combine detergent and rinse aid:
  The rinse aid setting should be adjust to d2. Please use the setting instructions in section HOW TO ADJUST SETTINGS and select the d-setting.
  The rinse aid is added from the rinse aid dispenser in addition to the multitabs rinse aid.

Setting d 1 cuts off the rinse aid dosage and the rinse aid indication.
The higher the value for d the higher the dosage.

Usually the recommended setting performs well. In case of streaks, stains, shimmer etc.; refer to section TROUBLESHOOTING.

How to fill the Rinse Aid Dispenser

CAUTION!
Only use rinse aid for dishwashers.
Other product can cause damage to the appliance!



1. Press the release button (**B**) to open the lid.
2. Fill the tank (**A**) up to the ‚max' mark.
3. Remove any spilled rinse aid with an absorbent cloth. Overdosed or spilled rinse aid may cause problems creating foam
4. Close the lid. Make sure that the release button locks into position.

How to Adjust Settings

To adjust the Rinse Aid level

1. The appliance is switched off.
2. Press and hold ⏻ and **Delay** about 3 seconds until :
   ▶The display shows the current Rinse Aid setting (the default is d6).

3. Press ⏻ to change the Rinse Aid setting in steps between d1 (minimum dispense) and d7 (maximum dispense).
4. To exit the Rinse Aid menu,press and hold 1 second ⏻ .

Activate / De-Activate the Buzzer

1. The appliance is switched off.
2. Press and hold ⏻ and **Delay** about 3 seconds until :
   ▶The display shows the current Rinse Aid setting.
3. Press **Delay** to scroll to the buzzer menu.
4. The display will show b0(buzzer off)or b1(buzzer on).
5. Press ⏻ to toggle between b0 (buzzer off)or b1 (buzzer on).
6. To exit ,press and hold 1 second ⏻ .

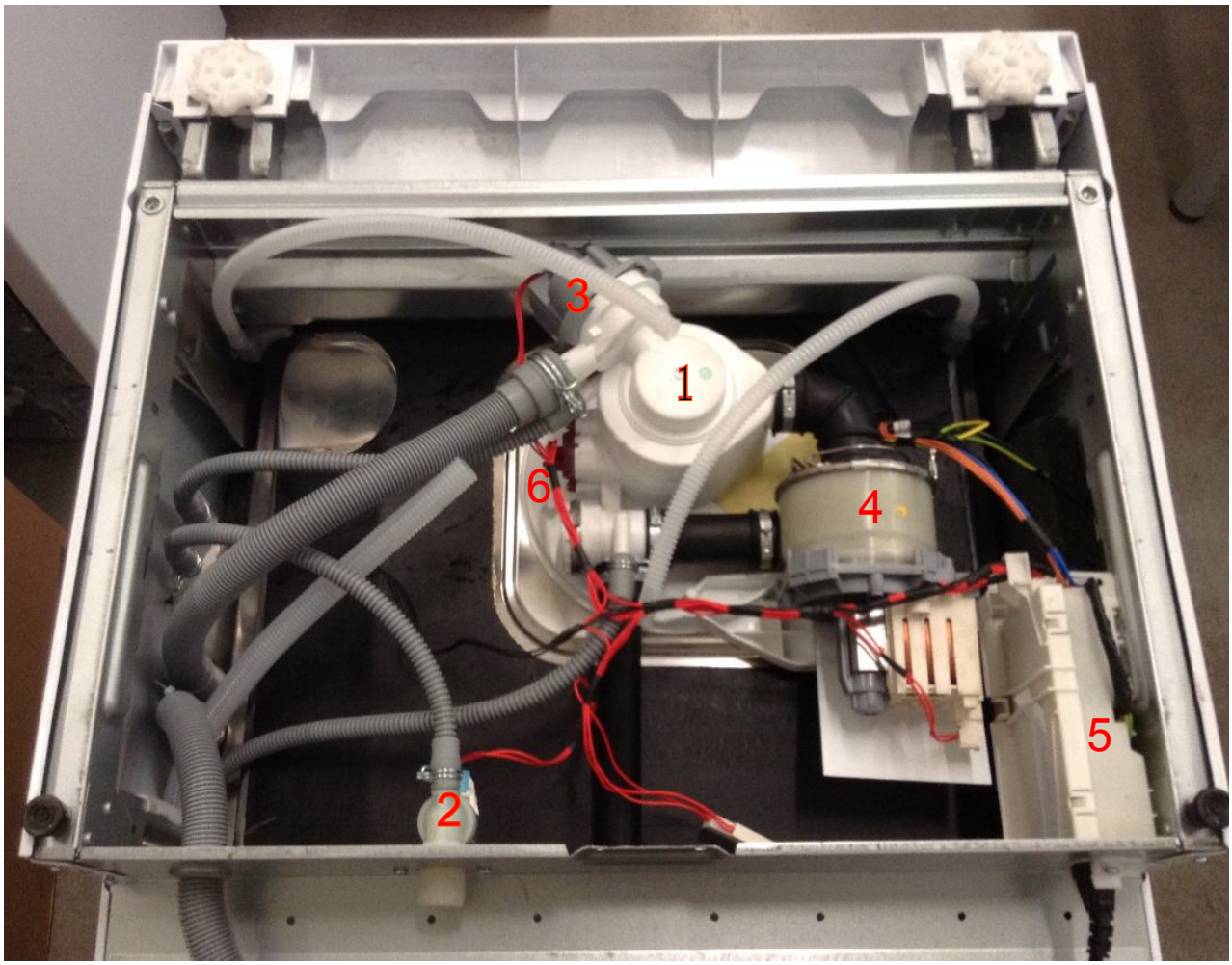
Child lock

This feature disables all the buttons on the dishwasher.If any other buttons are pressed while Child lock is activated, the the Child lock indicator will flash for a few seconds.

1. To activate Child lock, press and hold ⏵ that Child lock has been activated.
2. The display will remain on (if no programme has been started it will continue to flash while the control panel is locked).
3. To cancel Child lock, press and hold ⏵ that Child lock has been cancelled.

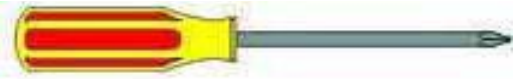
7. SERVICING PROCEDURES

7.1 Component Location



1. Sump
2. Water Inlet Valve
3. Drain Pump
4. Main Pump with Integrated Heater
5. Main Board Assembly
6. Turbidity Sensor with NTC

7.1.1 TOOLS

Flat-Slade Screwdriver	■ Fix and unfix the flat-Slade screw or unfix some strong components
Phillips Screwdriver 	■ Fix and unfix the Phillips screws
Trox Screwdrivers	■ Fix and unfix the Trox screws
Cutter	■ Unpacking
Electric drill	■ Drill holes while installation
Wrench	■ Combine the inlet hose
Multimeter	■ To measure the resistance of the electronic components
Pliers	■ Fix and unfix the pipe clamp

7.2 Product View Left And Right Hand Side

Left side view

Right side view

7.3 Removing Process

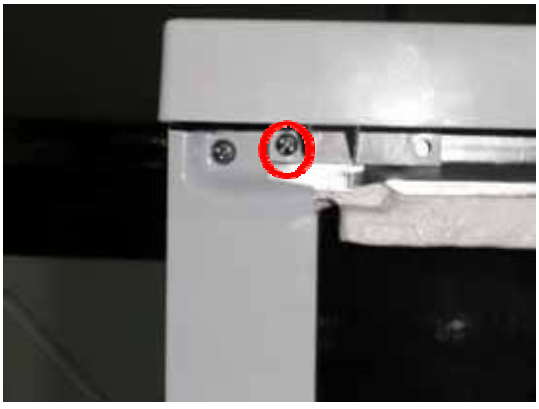
WARNING:
Before attempting to service or adjust any part of the machine, disconnect the electrical power supply from the wall outlet.

7.3.1 Removal Of The Plinth

To remove the plastic plinth, Lie put the dishwasher and use a flat-slide screw-driver to remove the plinth.

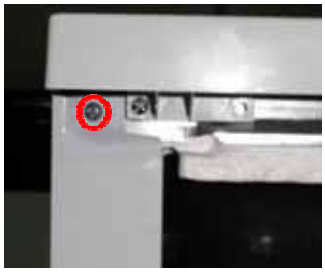
7.3.2 Removal Of The Worktop

■ Remove the 2 screws from the rear of the panel.
■ Slide the worktop front about 9 mm and lift it up and off.



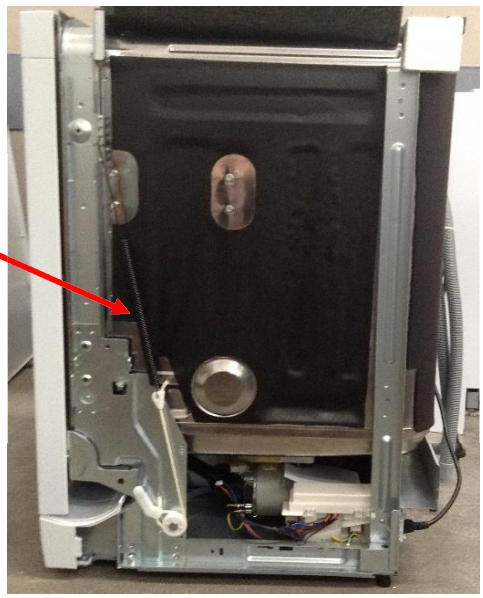
7.3.3 Removal Of The Side Panel

■ Remove the worktop (refer to Sections 7.3.2).
■ Remove the four screws securing the side panel at the front (two behind caps).
■ Remove the two screws from the back panel.
■ Remove the two screws from the top.



7.3.4 Removal Of The Door Spring

■ Remove side panel (refer to Section 7.3.3).
■ Remove the hinge rope from the spring
as shown with the door in the closed position.



7.3.5 Removal Of The Outer Door

- • Remove the 4 screws on each side.
- • Pull the panel slightly out at the bottom, and pull it downwards to remove.

7.3.6 Remove The Front Panel

■ Remove the outer door panel (refer to Section 7.3.5).

■ Unfix the 4 screws securing the front panel.

■ Disconnect the wiring of the User Interface board

■ Remove the front panel

■Remove the wiring from the controller.

7.3.7 Remove User Interface(UI) board

■ Remove the outer door (refer to Section 7.3.5)

■ Remove the front panel (refer to Section 7.3.6)

■ Remove the 1 boxe from panel

■ Remove the covers of the boxe

7.3.8 Remove the Door Switch Unit

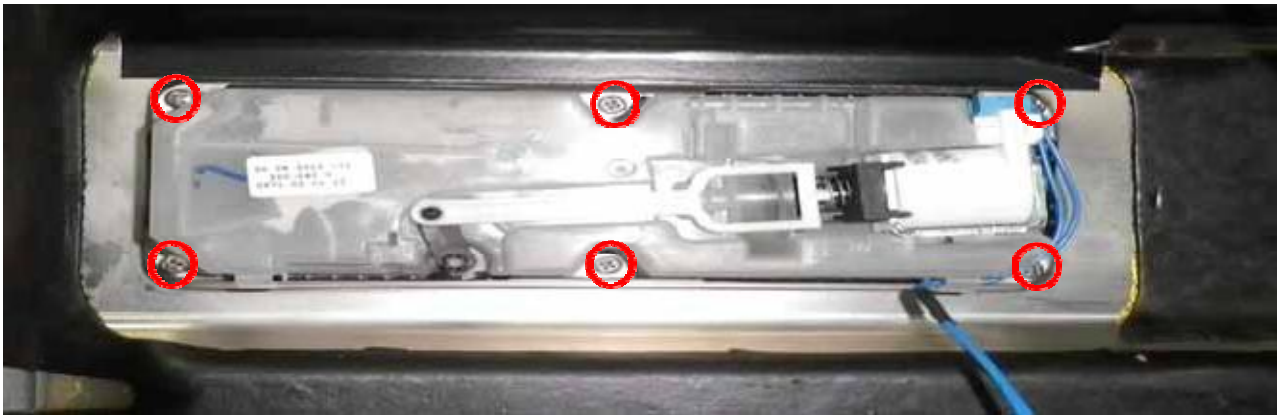
■ Remove the front panel (Refer to 7.3.6)

■ Disconnect the wiring of the door switch

■ Remove the 2 screws securing the door switch unit.

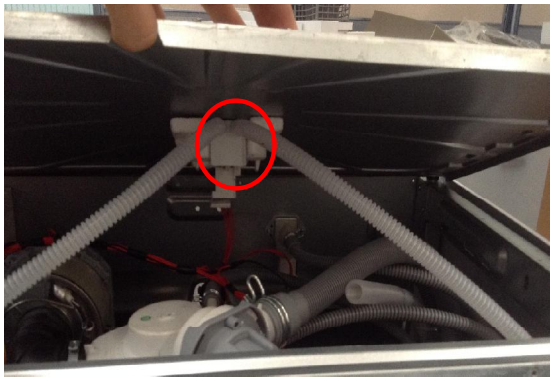
7.3.9 Remove the detergent and rinse aid dispenser

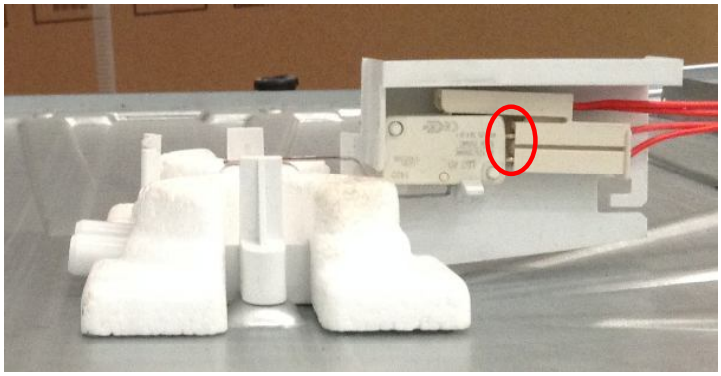
- Remove the outer door (refer to Section 7.3.5)
- Disconnect the wiring of the dispenser
- Remove the 6 screws securing the dispenser



7.3.10 Remove The Flood Switch

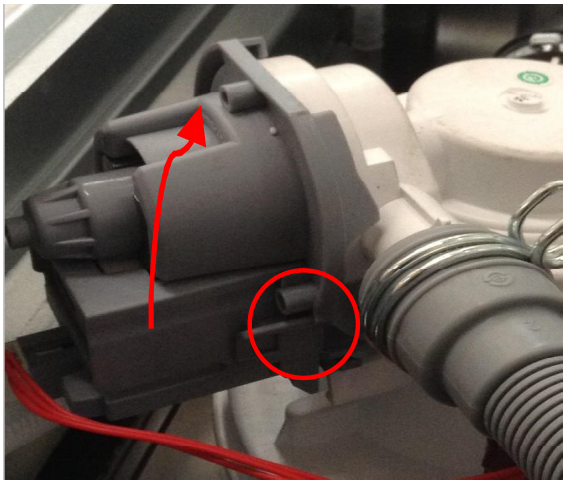
- The flood switch can only be accessed through the bottom tray.
- Remove the 4 screws holding the bottom tray
- Disconnect the pipes of the flood switch
- Disconnect wiring of flood switch and remove the flood switch





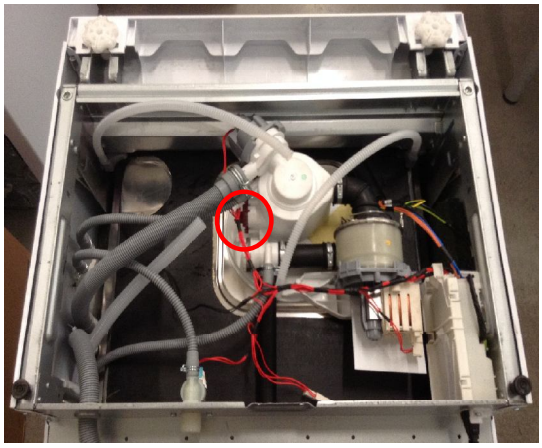
7.3.11 Remove The Drain Pump

- Remove the 4 screws holding the bottom tray
- Disconnect the wiring of the flood switch
- The drain pump can be accessed after remove the bottom tray
- To remove the pump, remove the wiring, then unclip and rotate anticlockwise to release.



7.3.12 Remove The Turbidity Sensor Integrated NTC

■ Remove the 4 screws holding the bottom tray
■ Disconnect the wiring of the flood switch
■ Remove the wiring of the turbidity sensor
■ Remove the 2 screws holding on the turbidity sensor

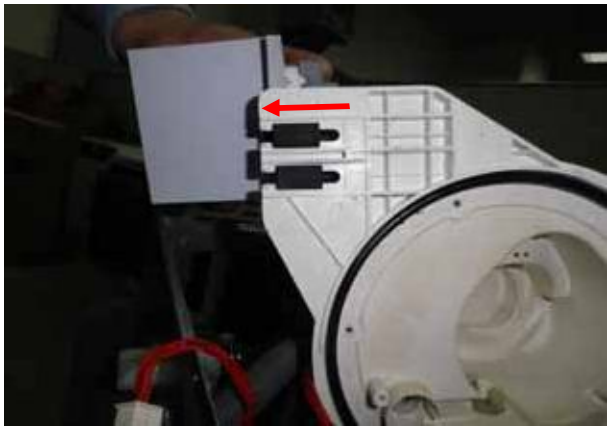


7.3.13 Remove the sump assembly

■ Open the door, remove the bottom spray arm, the plate filter and main filters.
■ Remove the 2 screws holding on the bottom spray arm integrated filter
■ Remove the 5 screws holding on the bottom tub.
■ Remove the bottom tray by removing the 4 screws holding on the bottom tray
■ Remove the wirings of the drain pump, main pump, turbidity sensor, the heater integrated on the main pump.
■ Remove the sump assembly.

7.3.14 Removal Of The Wash Pump Integrated Heater Element

■ Remove the sump assembly (Refer to Section 7.3.11)
■ Remove the clamps and hoses from the pump.
■ Slide the hangers from the sump

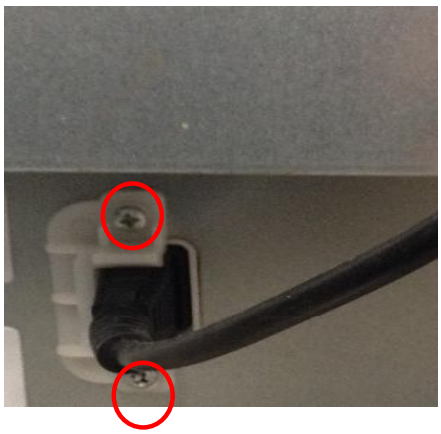


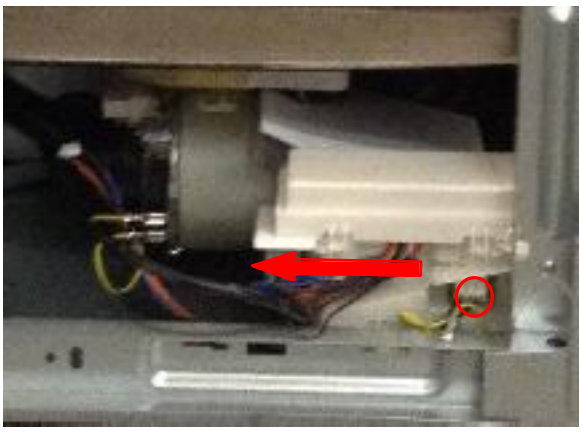
7.3.15 Removal Of The Air Break Integrated Flow Meter

- Access the nut of the air break in the tub.
- Remove the wiring of the flow meter.
- Remove the air break.

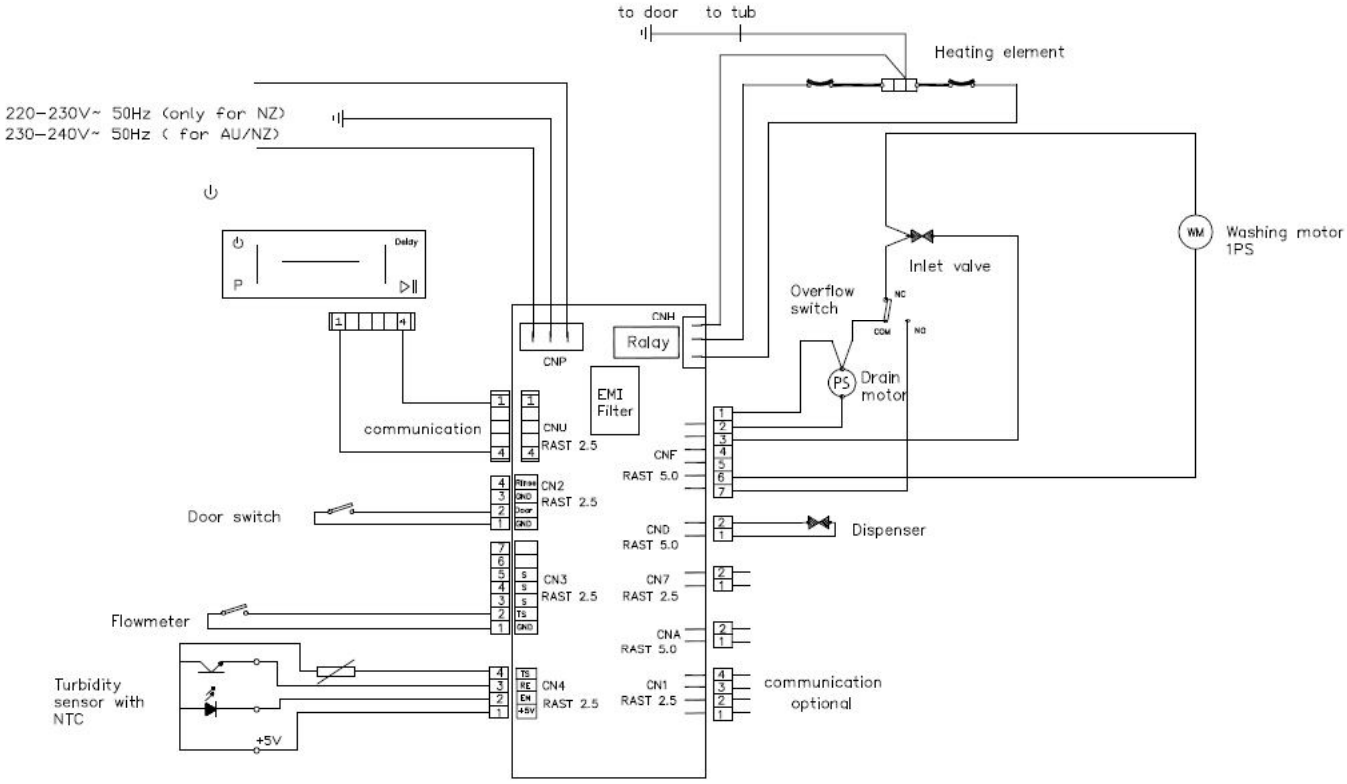
7.3.16 Removal Of The Main Board Assembly

- Remove the right side panel(refer to Section 7.3.3)
- Remove the screws on power cord .
- Remove the screw on the frame support.
- Slide front the main board
- Remove the wiring of the main board.

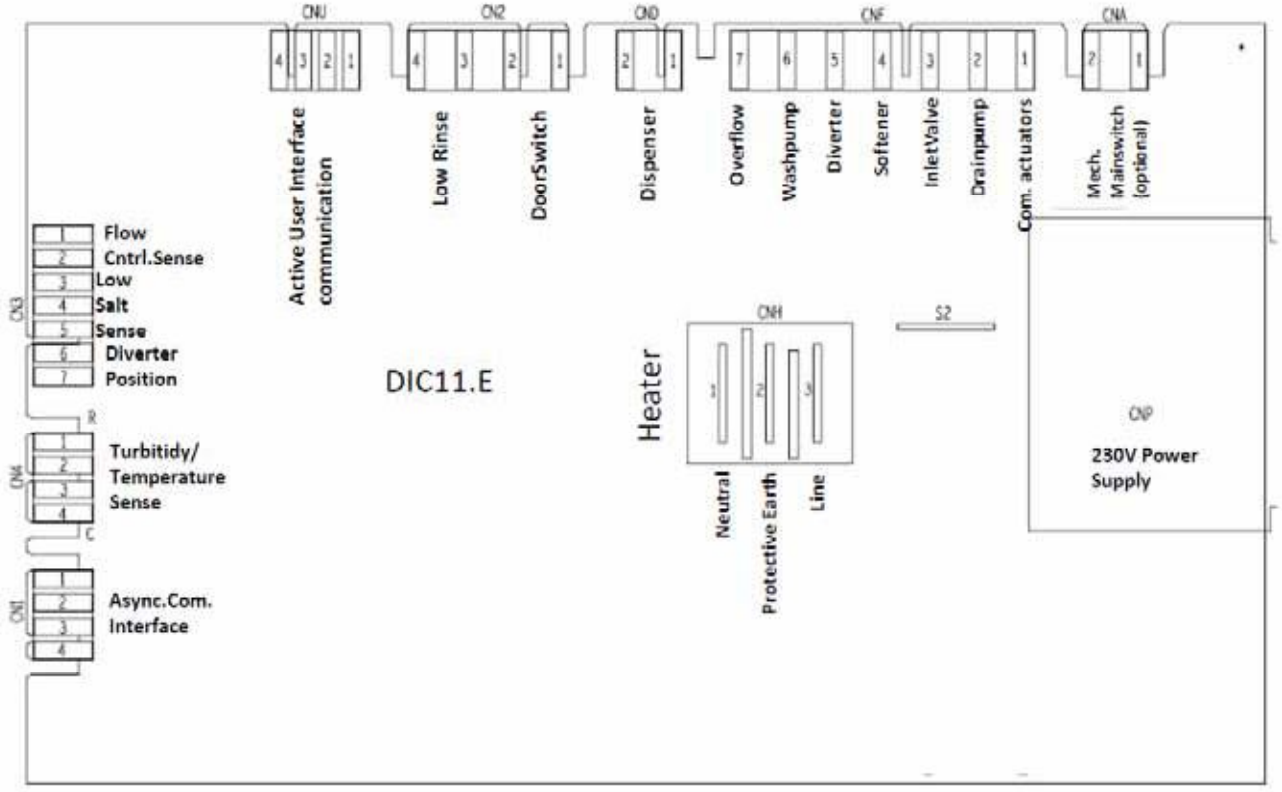




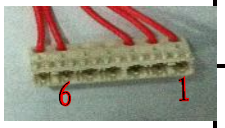
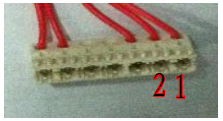
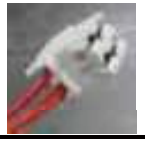
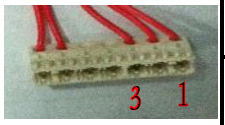
7.4 Wiring Diagram



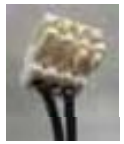
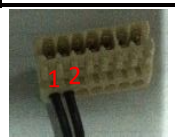
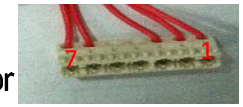
7.5 Components Position drawing of Main Board



How to check the loose connections between PCB and load

Series	PCB			LOAD				If loose connection, the fault is:
	Connector		Number in PCB	Colour	Component	Connector	Resistance	
1	7 hole connector		CNF(1)	Red	Washing motor		39Ω	The washing motor does not work.
2			CNF(6)	Red				
3	Terminal connector		CNH(1)	Black	Heater element		28.69Ω	E60
4			CNH(3)	Black				
5	7 hole connector		CNF(1)	Red	Drain pump		209Ω	E20
6			CNF(2)	Red				
7	7 hole connector		CNF(1)	Red	Inlet valve		4050Ω	E40
8			CNF(3)	Red				
9	2 hole connector		CND(1)	Blue	Detergent dispenser vlave		1320Ω	Detergent dispenser cannot open.
10			CND(2)	Blue				
11	4 hole connector		CN4(1)	Red	NTC		635Ω (100℃)	E70/E80
12			CN4(4)	Red			10kΩ (25℃)	

How to check the loose connections between PCB and load

Series	PCB			LOAD				If loose connection, the fault is:
	Connector		Number in PCB	Colour	Component	Connector	specification	
13	4 hole connector		CNU(1)	Orange	User Interface		/	User Interface does not work
14			CNU(2)	Orange				
15			CNU(3)	Orange				
16			CNU(4)	Orange				
17	4 hole connector		CN2(1)	Black	Door switch		/	The DW does not work
18			CN2(3)	Black				
19	4 hole connector		CN3(1)	Black	Flow-meter		/	E40
20			CN3(2)	Black				
21	7 hole connector		CNF(1)	Red	Over-flow switch		5A 125V/250V	E30
22			CNF(7)	Red				

8. SERVICE MODE

There are four mode in service mode:

- E - : Error code service memory read & actuators sequential on/off menu level
- L - : LED test and Error code service memory clear; Washing Cycle Repeat Modus Flag clear/Reset
- P - : selection & start of special assembly line test cycle
- C - : the turbidity sensor calibration function

Entering into the Service Mode Menu :

- Switch the dishwasher OFF (all indications and display are dark)

Step 1- Press the " ⏻ " button and " ▷ " button for 5 seconds simultaneously.

Step 2-The service mode menu becomes active and Display the "- E –" .

Step 3- Press the ▷ button to switch between the service mode menu -E-, -L- ,-P- and -C- to the according letter appears in Display

- **The "- E -" submenu level** , press the ⏻ button once.Display starts to show Exx, which is the latest Error Code happened stored on Position.1 inside the Error Code Service Memory.

If E00 appears, means no Error happened and stored inside the memory.

The Error Code Position (1,2,3,) will be indicated in addition on the cycle indications.

(First program means 1, secondprogram means 2 and third program means 3)

- To switch to the next positions of "- E -" submenu, press the ⏻ button more times, whereas the sub-menu positions will have the following meaning and functionality:

---Pos. Nr. 2 : Exx - ErrorCode_2 reading (previous to ErrorCode_1 position)
---Pos. Nr. 3 : Exx - ErrorCode_3 reading (previous to ErrorCode_2 Position)
---Pos. Nr. 4 : A3 – Regeneration valve of water softer will be activated
---Pos. Nr. 5 : A4 – Drain Pump will be activated
---Pos. Nr. 6: A5 – Inlet Valve will be activated
---Pos. Nr. 7: A6 – Heating will be activated (needs water level; after 10sec auto off)
---Pos. Nr. 8: A7 – Circulation Pump will be activated
---Pos. Nr. 9: A8 – Diverter will be activated
---Pos.Nr.10: A9 – Dispenser will be activated
---Pos.Nr.11: A10 – Fan will be activated

Rem.: If dishwasher is not equipped with the according components, no activation will happen; Software functionality is always same.

- **The "– L –" submenu level**, make sure that – L – appears in Display and press the ⏻ button ; The following functionality will be activated
  - All the Indications inside the User Interface will be switched on;
  - The buzzer will be switched on
  - The Error Code Memory will be clear / reset
  - The low salt indicator and low rinse aid indicator will be reset to light mode
  - The washing cycle repeat mode flag will be clear / reset

- **To enter into the "- P -" submenu level,** make sure that "– P –" appears in Display and press the ⏻ button;
- The special washing cycle implemented for assembly line testing will be started**.**

- ***To enter into the "-C-" submenu level,*** make sure that "-C-" appears in Display and press the ⏻ button;
- The dishwasher will be started to execute the turbidity sensor calibration routine.

9. ERROR CODES

The Error Family Ex0 will be given to the user if appearing, the sub code ExY can be only read if using the service modus menue “E” and read the Error Memory of DIC11.x main board.

Code		Description	Cause	Simple Solution
E10	E11	Water Tap closed verification during first filling	1.Water tap is closed. 2.Water pressure is too low. 3.Water tap is clogged or there is limescale. 4.Filter in the water inlet hose is clogged. 5.Water inlet hose has a kink or a bend.	1.Open the water tap. Confirm with 2.Increase water pressure. 3.Clean the water tap. 4.Clean the filter. 5.Make sure that the position of the hose is correct.
	E12	Water Tap closed verification during re-fill		
E20		Draining water Alarm: The dishwasher does not drain sufficiently	1.The sink spigot is blocked 2.The drain hose is blocked or extruded 3.The drain pump failure 4.Connecting failure 5.The turbidity sensor failure 6.The main board failure	1.Clean or replace the sink spigot 2.Dredge the drain hose or unblock it 3.Replace the drain pump 4.Reconnect the drain or mainboard 5.Replace the turbidity sensor 6.Replace the mainboard
E30		Overflow Alarm	1.The drain pump does not work 2.Water is in the bottom tray. 3.The overflow switch failure. 4.The connecting failure. 5.The overflow switch is assembled on incorrect position 6.The mainboard failure	1.Replace the mainboard 2.Check the leakage position and then reassembly it or replace the leakage component and record the leakage reason 3.Replace the overflow switch 4.Reconnect the harness 5.Reassemble the overflow switch 6.Replace the mainboard
E40	E41	Detection of flow meter signal after water load (Inlet valve block)	1.Water inlet valve failure 2.The main board failure	1.Replace the water inlet valve 2.Replace the main board
	E42	Flow rate too high	1.The water inlet valve 2. The air break integrated flow meter 3. The main board failure	1.Replace the water inlet valve 2.Replace the main board 3.Replace the air breaker integrated flow meter

Code		Description	Cause	Simple Solution
E50	E52	Communication failure for User Interface	1.User interface board failure 2.The main board failure 3.The door harness failure 4.The poor connecting of wire harness	1.Replace the UI board 2.Replace the main board 3.Replace the door harness 4.Improve the connecting
E60		Heating temperature increase	1.Heater element failure 2.The main board failure 3.The harness for heater failure. 4.Thepoor connecting of the wire harness	1.Replace the washing pump integrated heater elements 2.Replace the main board 3.Replace the heat harness 4.Improve the connecting
E70		Temperature sensing by NTC	1.Turbidity sensor failure 2.The main board failure 3.The poor connecting of wire harness	1.Replace the turbidity sensor 2.Replace the main board 3.Improve the connecting
E80	E81	Turbidity Sensor Calibration out of Range	1.Turbidity sensor much dirty 2.Turbidity sensor failure 3.Poor connecting of wire harness	1.Clean the turbidity sensor 2.Replace the turbidity sensor 3.Improve the connecting
	E82	Turbidity Sensor Calibration without stable signal	1.Turbidity sensor much dirty 2.Turbidity sensor failure 3.Poor connecting of wire harness	1.Clean the turbidity sensor 2.Replace the turbidity sensor 3.Improve the connecting
EA0		Frequency synchronization consistency check	The frequency of the input power is incorrect.	Measure the frequency of the input power and told end the user improve it to 50Hz±2%

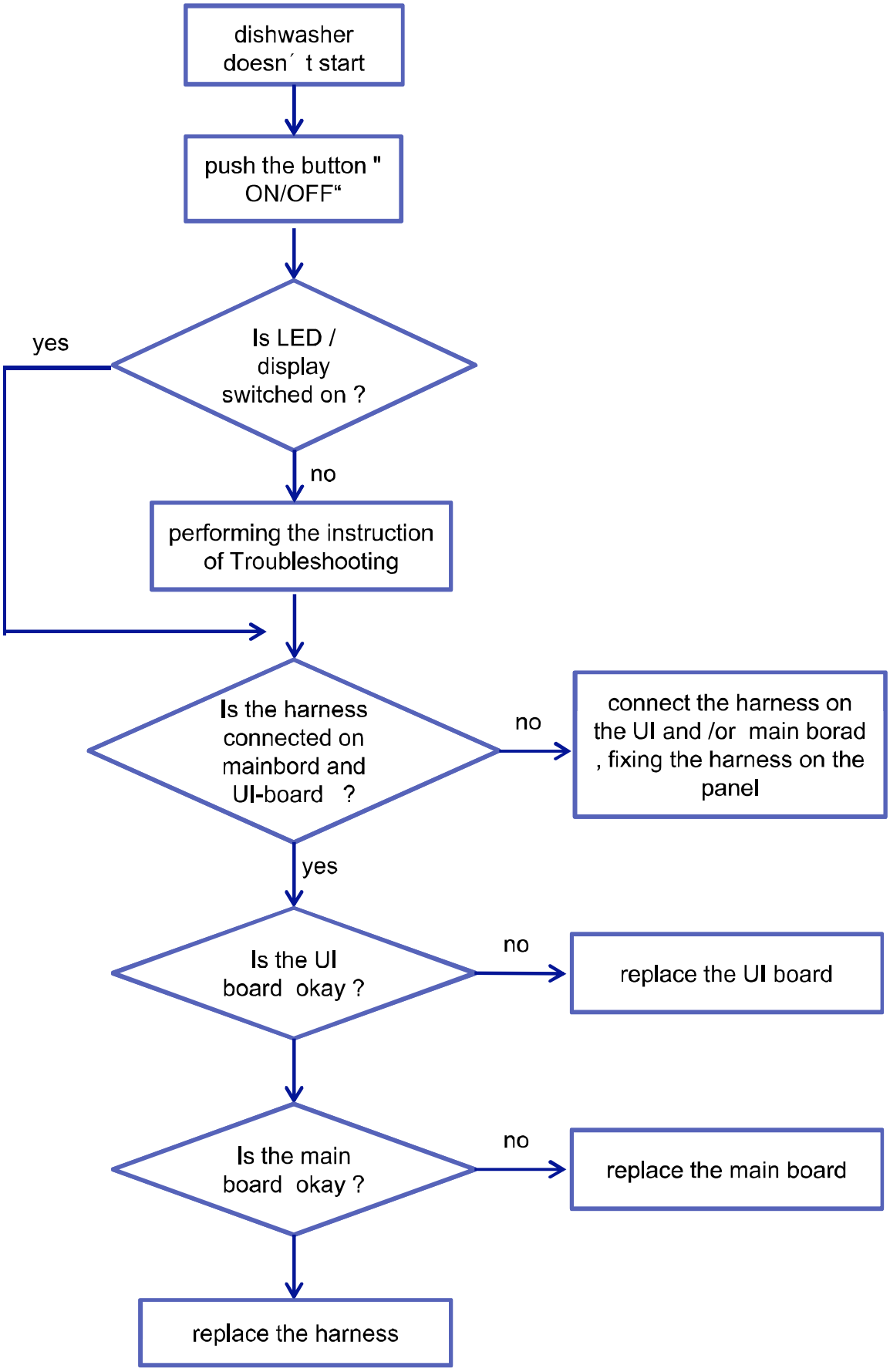
10. TROUBLESHOOTING

WARNING!
Before maintenance, deactivate the appliance and disconnect the mains plug from the mains socket.

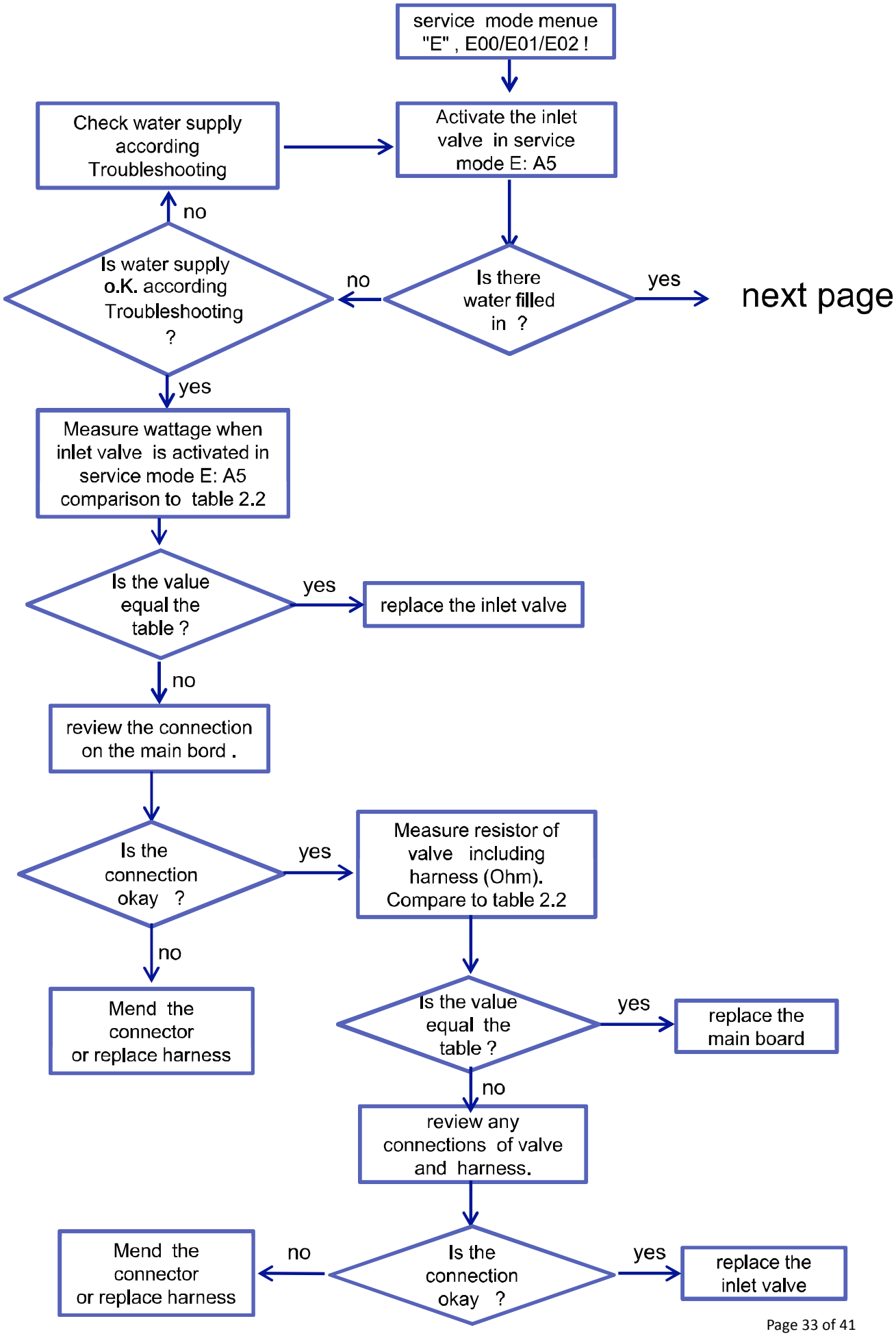
Problem	Possible cause	Possible solution
Program does not start	Mains plug is not connected in the mains socket.	Connect the mains plug.
	Appliance door is open.	Close the appliance door.
	Fuse in the house circuit is damaged. UK plugs according to BS 1363 only: Fuse in the plug is damaged	Replace the fuse.
	Delay start is set.	Cancel the delay start or wait for the end of the countdown.
Rinse Aid Indicator is lighted.	Rinse aid dispenser is empty. Refill of rinse aid was not confirmed.	Refill Rinse aid till full. After power on dishwasher, the indicator will be off .
Acoustic alarm, display shows alarmcode E10 The appliance does not fill with water.	Water tap is closed. Water pressure is too low. Water tap is clogged or there is limescale on it. Filter in the water inlet hose is clogged. Water inlet hose has a kink or a bend.	Open the water tap.Confirm with START/PAUSE Contact your local water authority. Clean the water tap. Clean the filter. Make sure that the position of the hose is correct.
Acoustic alarm,display shows alarmcode E20 The appliance does not drain sufficiently	Filters are clogged. The drainage is blocked.	scoop water until filter level. Clean filters restart by touching Start/Pause button Scoop water until filter level. Make sure that drain water connection and piping is correct and not blocked. Restart by touching Strat/Pause button .
Acoustic alarm, display shows alarmcode E30 The drain pump runs permanently.	Anti-flood device is on: There are water leakages in the appliance. The water inlet valve is blocked. The drainage is blocked	Close the water tap Disconnect appliance from power supply Contact Service.

11. SERVICE TROUBLESHOOTING FLOWCHARTS

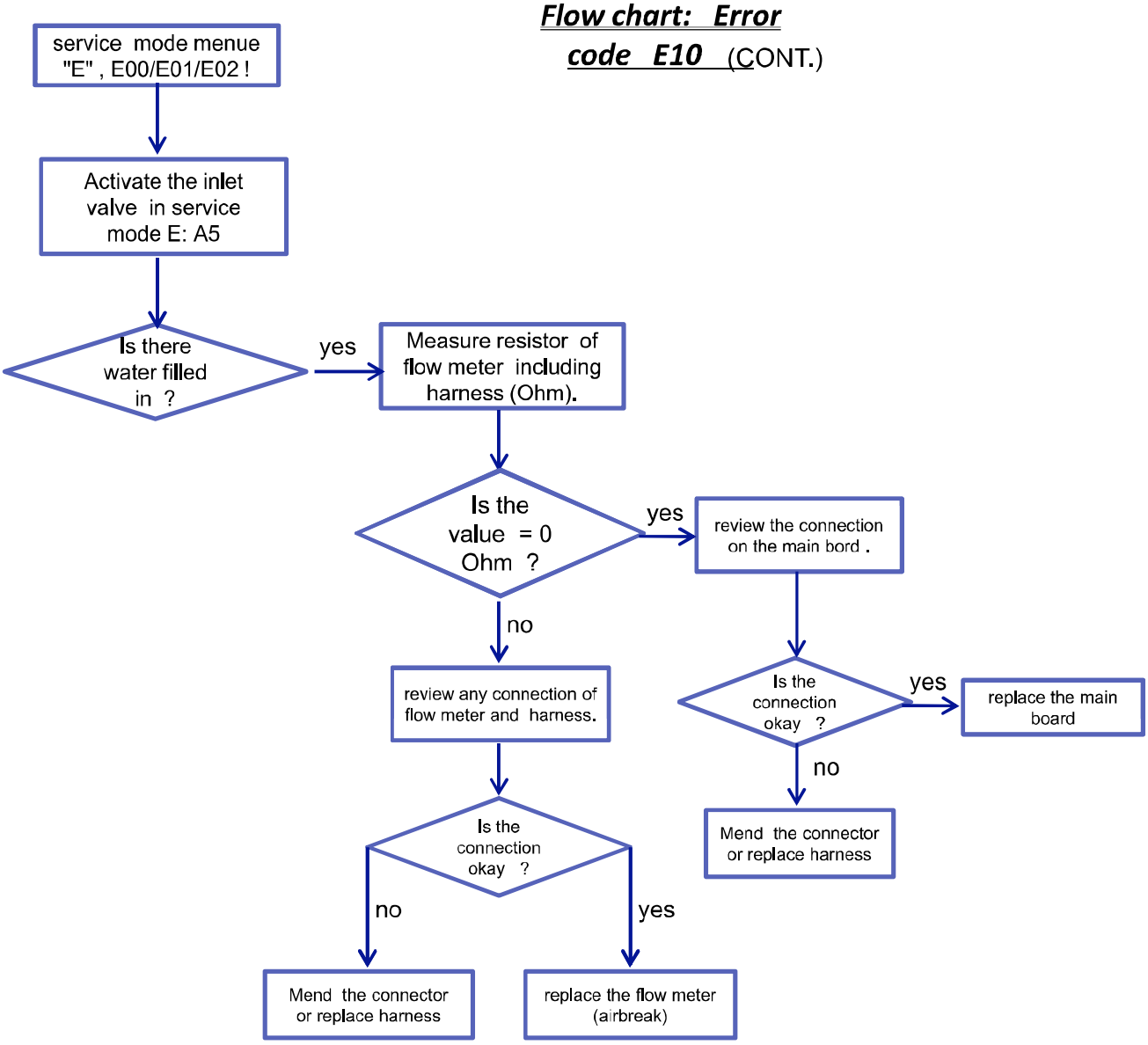
11.1 Product Not Operating



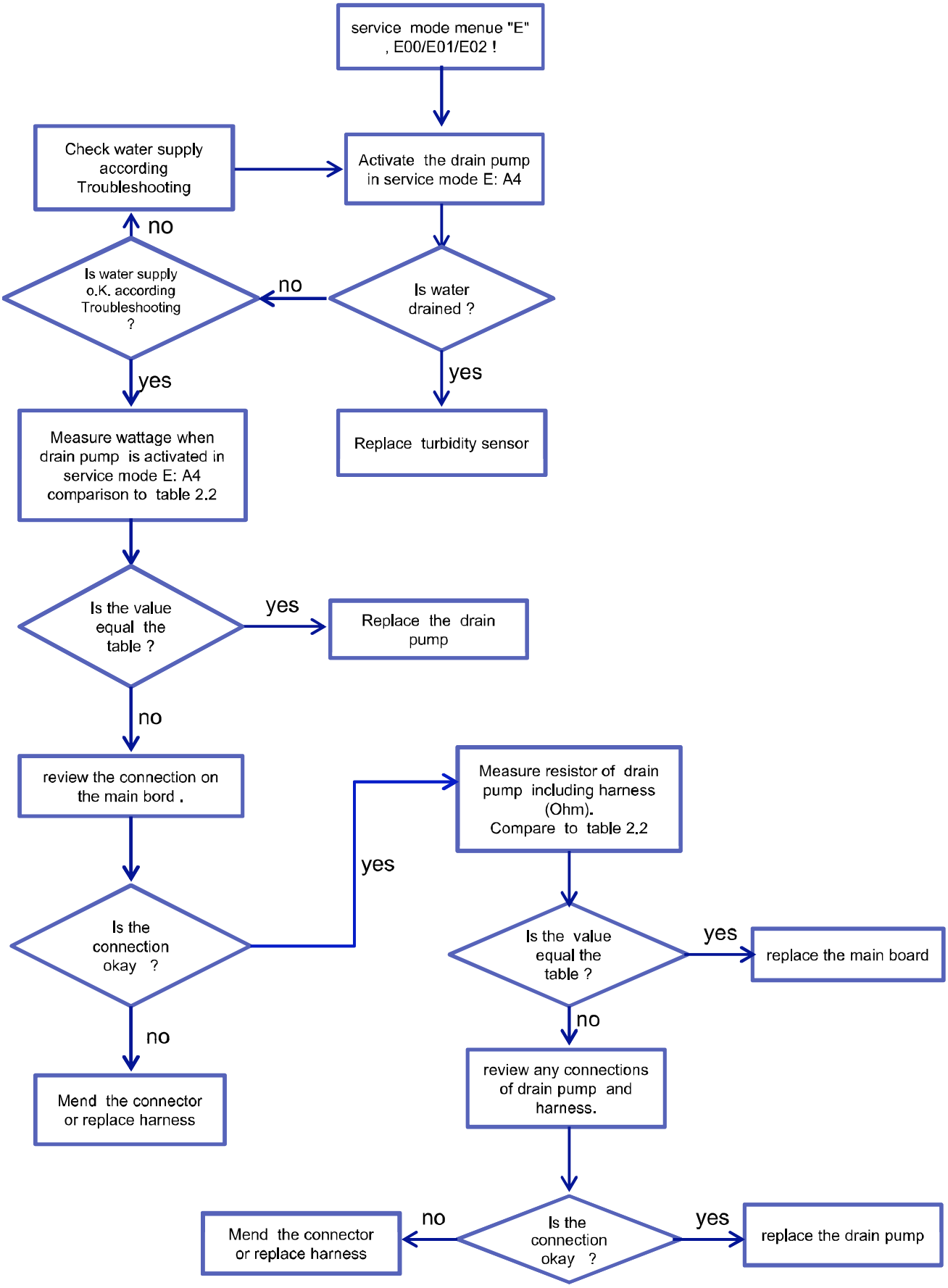
11.2 E10 fault



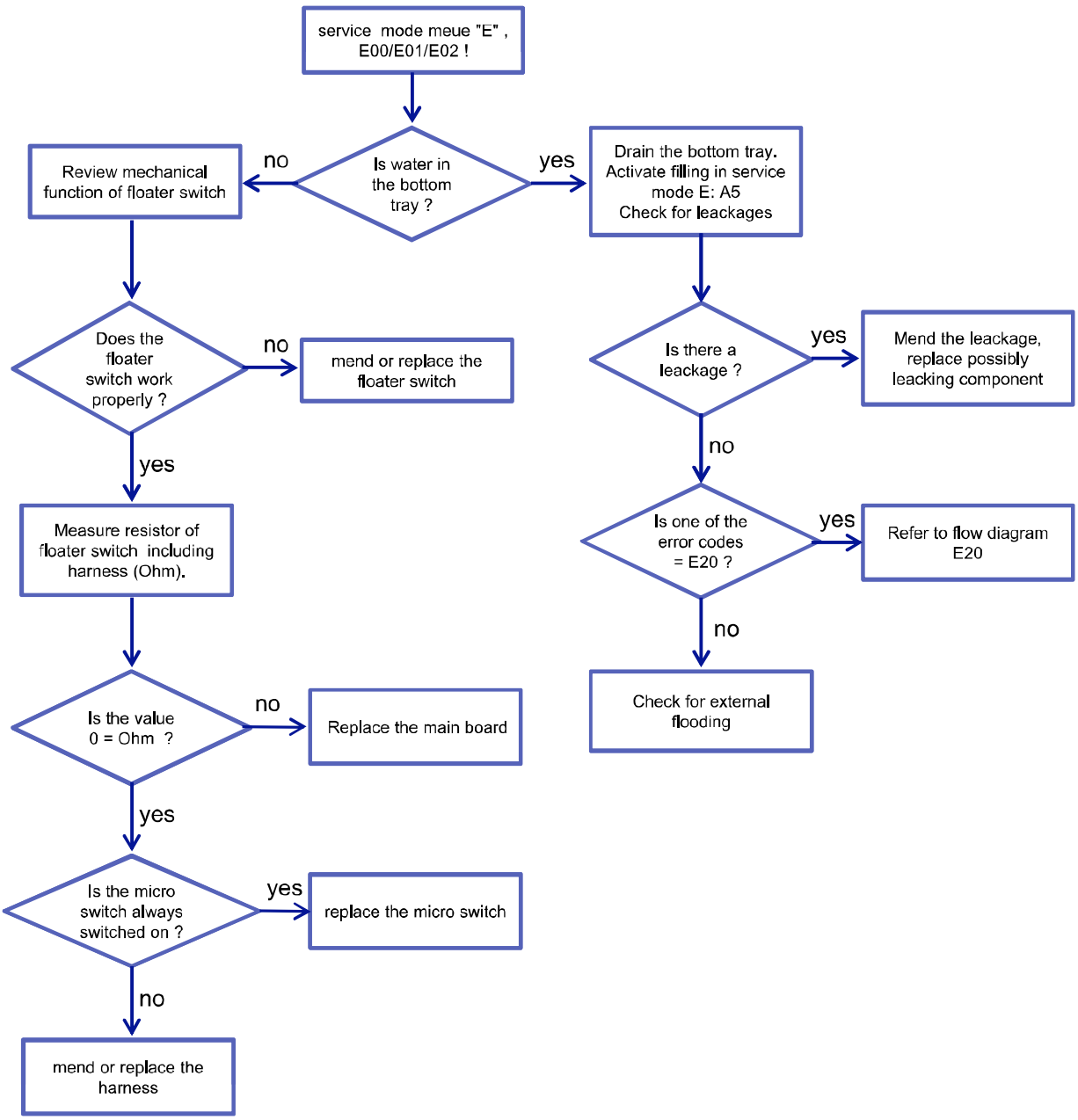
Flow chart: Error code E10 (CONT.)



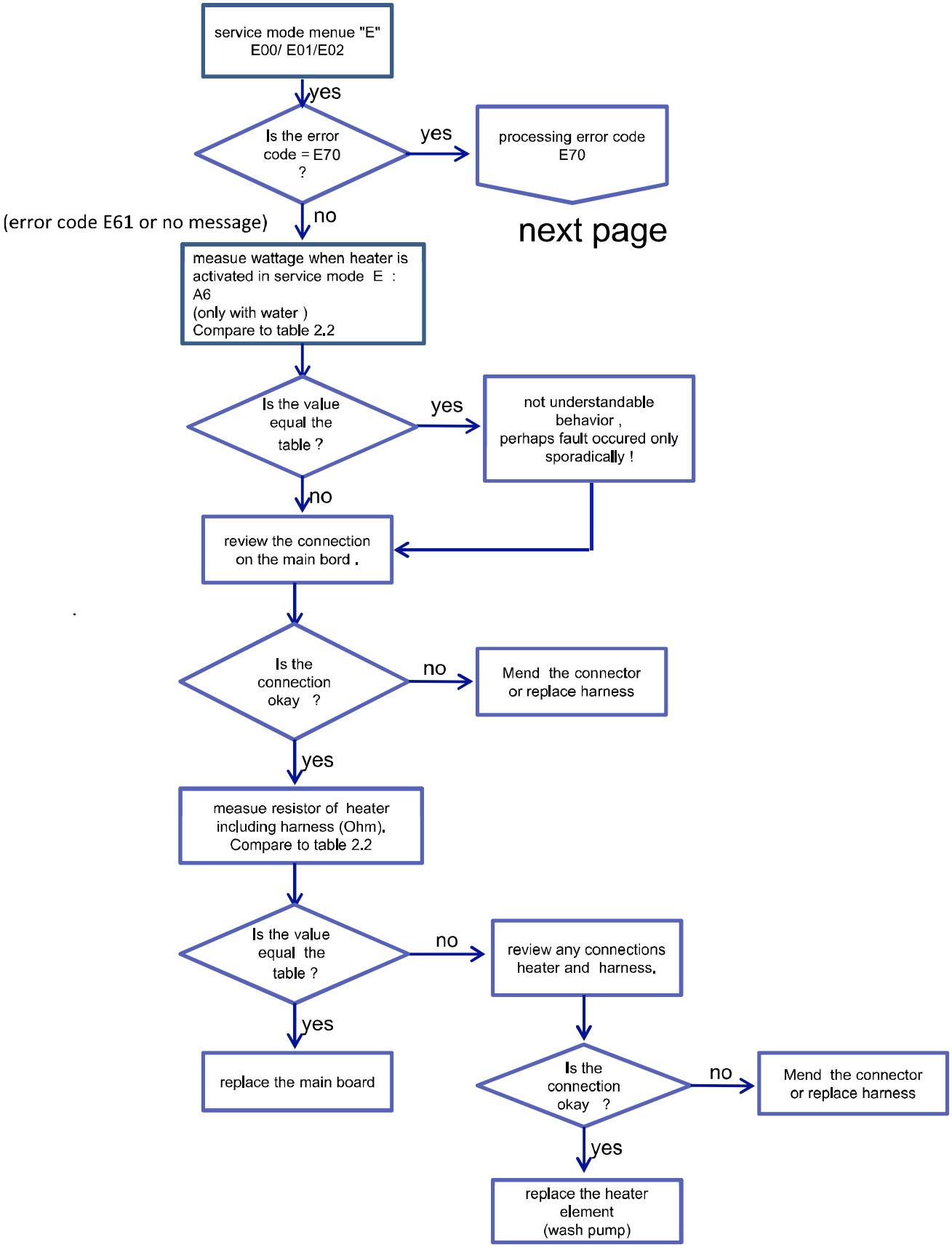
11.3 E20 fault



11.4 E30 fault

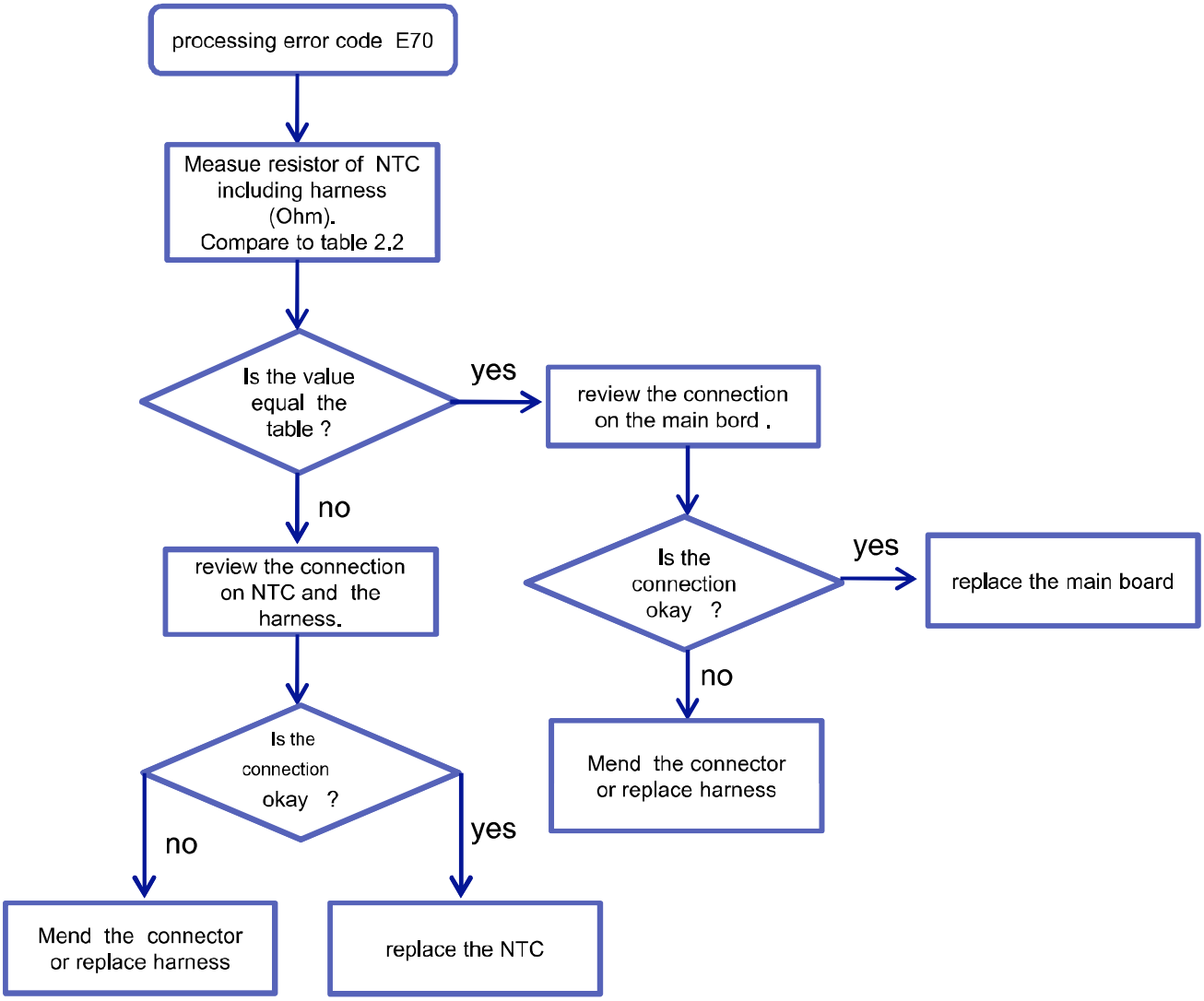


1.5 Heating fault

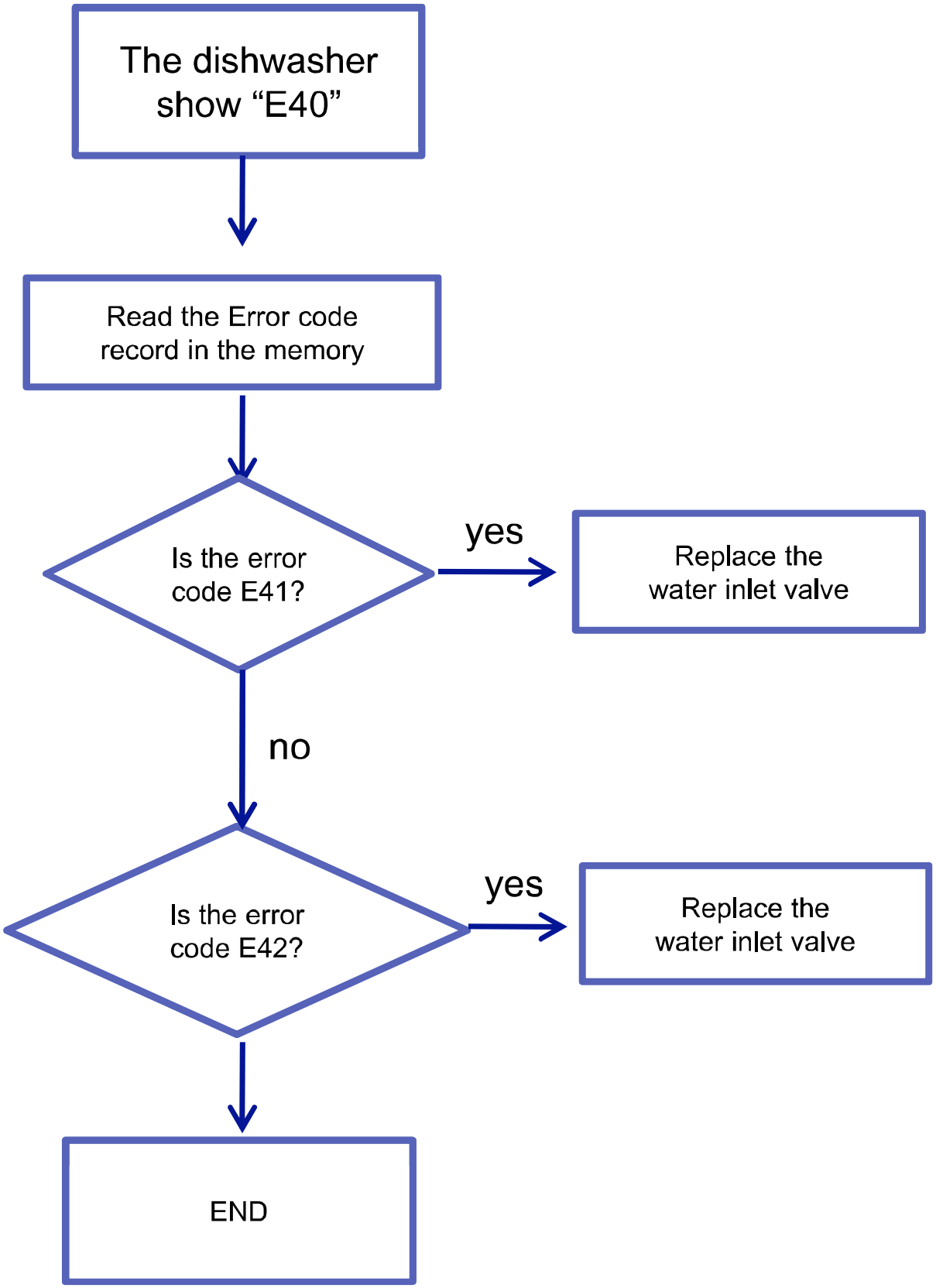


CONT.

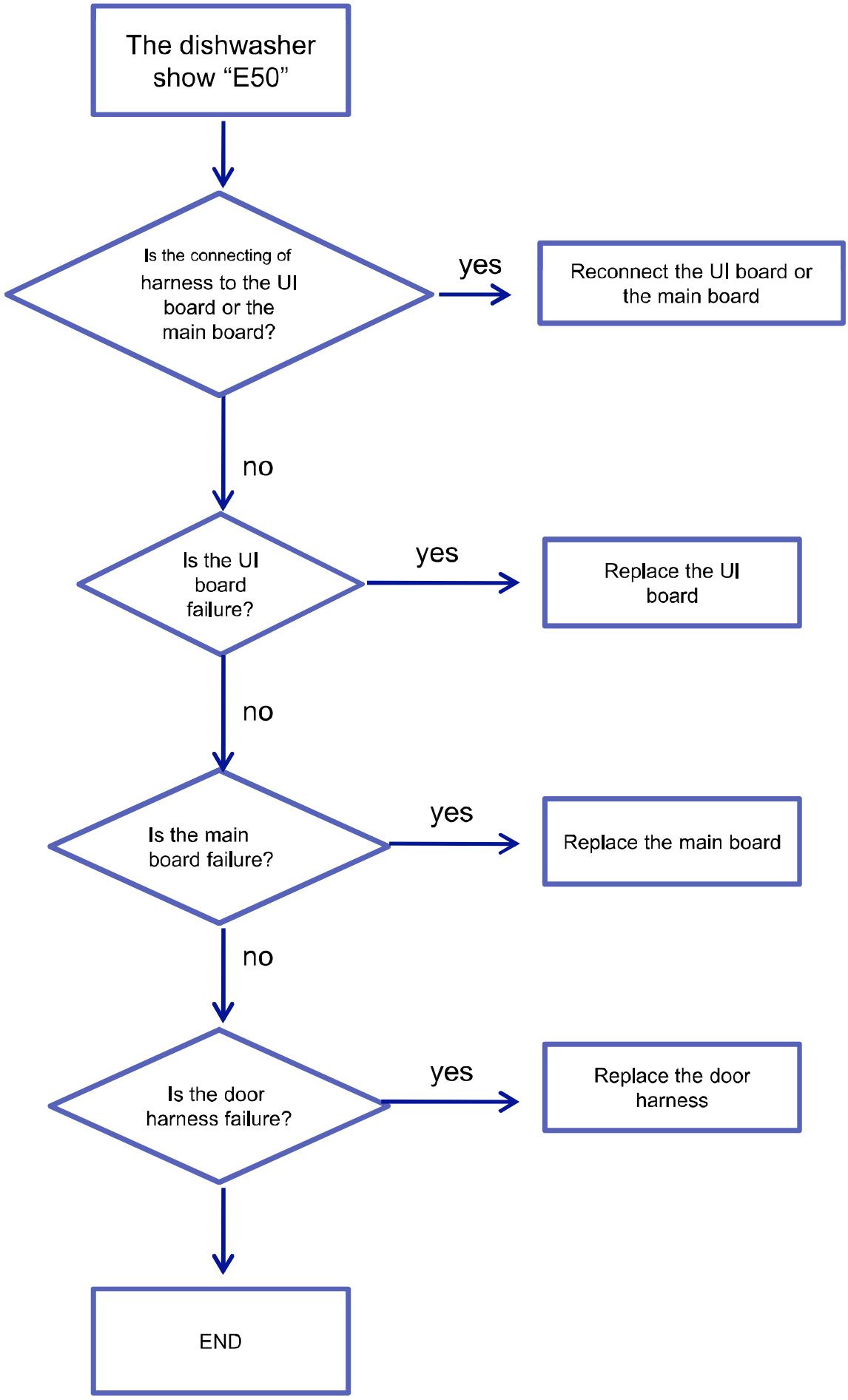
processing error code E70



11.6 E40 Fault



11.7 E50 Fault



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