

SERVICE HANDBOOK NO:
REV. 04

BEKO 2013 PLATFORM (GOOD+)

CONDANSER DRYER

SERVICE HANDBOOK



THIS SERVICE HANDBOOK CAN ALSO BE USED FOR CYLINDA AND SMEG
BRAND HIGH END OEM MODELS.

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3. Important Instructions for Safety and Environment:

This section contains safety instructions that will help protect from risk of personal injury or property damage. Failure to follow these instructions shall void any warranty.

3.1. General safety:

- This product can be used by the children at the age of 8 and over and the persons with physical, sensory or mental disorders or unlearned or inexperienced people as long as they are attended by a person who will be responsible for their safety or who will instruct them accordingly about use of the product. Children should not tamper with the machine. Cleaning and user maintenance works should not be carried out by the children unless they are attended by someone.
- Never place the product on a carpet-covered floor; otherwise, lack of airflow beneath the machine will cause electrical parts to overheat. This will cause problems with your product.
- Always have the installation and repairing procedures carried out by the Authorized Service Agent. Manufacturer shall not be held liable for damages that may arise from procedures carried out by unauthorized persons.

3.2. Electrical safety:

- If the product is faulty, it must not be operated unless it is repaired by an authorized service agent! There is the risk of electric shock!
- This product is designed to resume operating in the event of a power recovery following a power cut. If you want to cancel an ongoing program, look at the section titled "Canceling a Program".
- Connect the product to an earthed outlet protected by a 10-ampere fuse. Have the grounding installation performed by a qualified electrician. Our company shall not be liable for any damages that will arise when the product is used without grounding in accordance with the local regulations.
- Unplug the product when it is not in use.
- Never wash the product by spreading or pouring water onto it! There is the risk of electric shock!
- Never touch the plug with wet hands! Never unplug by pulling on the cable, always pull out by grabbing the plug.
- Unplug the machine from the mains during installation, maintenance, cleaning and repair works.
- If the power cord of the machine is damaged, in order to avoid the danger, it should be replaced by the manufacturer, after-sales service agent or equally qualified personnel (preferably an electrician) or a person to be designated by the importer.
- Do not use extension cords, multi-plugs or adaptors to connect the dryer to power supply in order to decrease the risk of fire and electric shock.
- Power cable plug must be within easy reach after installation.

3.3. Product safety:

- Do not connect the air exit of the product to the chimney holes which are used for the exhaust fumes of the devices operating with gas or other types of fuel.
- You must provide enough ventilation in order to prevent gases exiting from devices operating with other types of fuels including the naked flame from accumulating in the room due to the back-fire effect.
- Items cleaned or washed with gasoline/ diesel, dry-laundry solvents and other combustible or explosive materials as well as the items that are contaminated or spotted with such materials should not be dried in the product since they emit flammable or explosive vapor.
- Do not dry the laundry cleaned with industrial chemicals in the dryer.
- Underwear that contains metal reinforcements should not be dried in the dryer. Dryer can get damaged if metal reinforcements come loose and break off during drying.
- Do not reach into the machine when the drum is spinning.
- The final step of the drying programme, namely the cool-down step is performed without applying heat to ensure that the laundry items are kept at a temperature that will not damage them. If you open the loading door before the cool-down step completes, hot vapor will come out.
- Never stop the dryer before the programme completes. If you must do this, remove all laundry quickly and lay them out to a suitable place to dissipate the heat.
- Always clean the lint filter before or after each loading. Never operate the dryer without the lint filter installed.
- Clean inside and exhaust duct of the product regularly. Do not allow fiber, dust and dirt accumulation around the exhaust exit and at adjacent areas.
- Do not dry unwashed items in the dryer.
- Garments or pillows bolstered with rubber foam (latex foam), shower bonnets, water resistant textiles, materials with rubber reinforcement and rubber foam pads should not be dried in the dryer.
- Do not use fabric softeners and anti-static products unless they are recommended by the manufacturers of the relevant product.
- Use softeners, anti-static products, etc. in accordance with the instructions of their manufacturers.
- Do not install the product behind a door with a lock, sliding door or a hinged door which can strike the product.
- Do not install or leave the dryer in places where it will be exposed to outdoor conditions.
- Your product can be operated at temperatures between +5°C and +35°C. If the operating conditions fall outside of this range, operation of the product will be adversely affected, and it can get damaged.
- Remove the loading door of the drying compartment before decommissioning or disposing of the product.
- Check all garments before loading into the machine and make sure that there are no any lighters, coins, metal pieces, needles, and etc. in their pockets or on them.

- Make sure that the pets do not enter into the product. Check the drum of the product before using it.
- Do not lean on the loading door when it is open. The product may tip over.
- When your machine is not in use or when you unload the laundry after completion of drying process, the machine will be turned off automatically after 10 minutes.
- Even machine is off, there is still energy on electronic card. Before the intervention, main plug must be plugged out.
- Notice that the metal parts have sharp edges. Please comply with occupational health and safety rules during the repair.

3.4. Intended Use:

- This product has been designed for domestic use. It is not designed for commercial purposes and should not be used for other purposes.
- Use the product only for drying the textile that are marked accordingly.
- Manufacturer denies any liability for the damages arising from misuse or faulty handling of the product.
- The service life of your product is 10 years. During this period, original spare parts will be available to operate the appliance properly.

3.5. Children's safety:

- Packaging materials are dangerous to children. Keep packaging materials in a safe place out of the reach of the children.
- Electrical products are dangerous for the children. Keep children away from the product when it is operating. Do not let them tamper with the product. Activate the child-proof lock in order to prevent the children to tamper with the machine.
- Do not forget to close the loading door when leaving the room where the product is located.

3.6. Compliance with the WEEE Directive and Disposing of the Waste Product:

- This product complies with EU WEEE Directive (2012/19/EU). This product bears a classification symbol for waste electrical and electronic equipment (WEEE).
- This product has been manufactured with high quality parts and materials which can be reused and are suitable for recycling. Do not dispose of the waste product with normal domestic and other wastes at the end of its service life. Take it to the collection center for the recycling of electrical and electronic equipment. Please consult your local authorities to learn about these collection centers.

3.7. Compliance with RoHS Directive:

- The product you have purchased complies with EU RoHS Directive (2011/65/EU). It does not contain harmful and prohibited materials specified in the Directive.

3.8. Package information:

- Packaging materials of the product are manufactured from recyclable materials in accordance with our National Environment Regulations. Do not dispose of the packaging materials together with the domestic or other wastes. Take them to the packaging material collection points designated by the local authorities.

4. Technical Specification:**4.1. Product Definition:**

- 4.1.1. Manufacturer** : Arçelik A.Ş.
Çerkezköy - Tekirdağ / TÜRKİYE
- 4.1.2. Model** : Beko DCY (7/8/9)402
- 4.1.3. Capacity (kg)** : 7/8/9
- 4.1.4. Programs (Qty)** : 14 sensor-controlled programs
1 timed program
1 ventilation program (compressor off)

4.2. Dimensions:

- 4.2.1. Height (mm)** : 846
- 4.2.2. Depth (mm)** : 598
- 4.2.3. Width (mm)** : 595

4.3. Package:

- 4.3.1. Material** : PE bag (Shrink-pack)
- 4.3.2. Supporter** : Polystrofoam / Wood

4.4. Packed Dimensions:

- 4.4.1. Height (mm)** : 880 / 895
- 4.4.2. Depth (mm)** : 660 / 670
- 4.4.3. Width (mm)** : 650 / 660

4.5. Weight:

- 4.5.1. Unpacked (kg)** : 50,5 / 51,5 (with plastic door)
52,5 / 53,5 (with glass door)
- 4.5.2. Packed (kg)** : 52,5 / 53,5 (with plastic door)
54,5 / 56 (with glass door)

4.6. Working Condition:

- 4.6.1. Temperature**
Min. room temperature : 5° C
Max. room temperature : 35° C
- 4.6.2. Humidity** : %95 RH

4.7. Electrical Specification:

- 4.7.1. Voltage (V / Hz) : 230-240 / 50
- 4.7.2. Power (W) : 800 / 900
- 4.7.3. Current (A) : 4

4.8. Power Cord:

- 4.8.1. Type : 3 x 1.5 mm² or 3x1.0mm² cord copper wire
- 4.8.2. Insulation : H05V2V2-F 3G1,5mm² / H05V2V2-F 3G1 mm²
H05VV-F 3G1,5mm² / H05VV-F 3G1 mm²
- 4.8.3. Plug : Earthed, PVC moulded
- 4.8.4. Length (m) : 1,5 m

4.9. Motor (Used in Silent Condenser Models):

- 4.9.1. Type : Brushless Direct Current (BLDC) Motor
- 4.9.2. Power (W) : max. 250
- 4.9.3. Motor speed (rpm) : 2800-3000
- 4.9.4. Drum speed (rpm) : 54-57
- 4.9.5. Insulation : F
- 4.9.6. Run capacitor : NA (Not Available)

4.10. Motor (Used in other Condenser Models):

- 4.10.1. Type : 1 phase induction (Asynchronous) Motor
- 4.10.2. Power (W) : max. 250
- 4.10.3. Main Winding (ohm) : 19,5±5%@ 250C
- 4.10.4. Auxillary Winding(ohm) : 19,5±5%@ 250C
- 4.10.5. Motor speed (rpm) : 2750
- 4.10.6. Drum speed (rpm) : 53 ± 2
- 4.10.7. Insulation : F
- 4.10.8. Run capacitor : 9 µF ± %5

4.11. Pump :

- 4.11.1. Manufacturer / Type : Ascoll / Synchronous
- 4.11.2. Power (W) : 9
- 4.11.3. Voltage / Frequency : 220 – 240 V / 50 Hz
- 4.11.4. Flow Rate (l / min) : 2,4
- 4.11.5. Head (m) : 0,7
- 4.11.6. Revolution Speed (rpm) : 3000
- 4.11.7. Winding Resistance (ohm) : 956 ± %8

4.12. Pump :

- 4.12.1. Manufacturer / Type : Hanyu / Synchronous
- 4.12.2. Power (W) : 13
- 4.12.3. Voltage / Frequency : 220 – 240 V / 50 Hz
- 4.12.4. Flow Rate (l / min) : 2,4

4.12.5. Head (m)	: 0,7
4.12.6. Revolution Speed (rpm)	: 3000
4.12.7. Winding Resistance (ohm)	: 976 ± %8

4.13. Heater: (For EU Models)

4.13.1. Manufacturer	: IRCA
4.13.2. Type	: Open wire spiral heating element
4.13.3. Nominal Power&Voltage(W)	: 230Vac, 1600+900 = 2500 ± %5
4.13.4. Resistance(ohm) – 1600W	: 32.41 ohm ± %5
4.13.5. Resistance(ohm) – 900W	: 57,63 ohm ± %5
4.13.6. Manual resetting thermostat	: ELTH 261PB 250Vac – 16A / 160°C ±3°C
4.13.7. NTC (regulating thermistor)	: ELTH 279 19.500 ohm @ 25°C

4.14. Heater: (For Australia Models)

4.14.1. Manufacturer	: IRCA
4.14.2. Type	: Open wire spiral heating element
4.14.3. Nominal Power&Voltage(W)	: 230Vac, 1400+400 = 1800 ± %5
4.14.4. Resistance(ohm) – 1400W	: 36,83 ohm ± %5
4.14.5. Resistance(ohm) – 400W	: 129,65 ohm ± %5
4.14.6. Manual resetting thermostat	: ELTH 261PB 250Vac – 16A / 135°C ±3°C
4.14.7. NTC (regulating thermistor)	: ELTH 279 19.500 ohm @ 25°C

NOTE: If the heater does not work because of manuel resetting thermostat is open circuit, do not change heater with the new one. You should do the following operation that described below. With the multimeter manual resetting thermostat is checked from the terminals while heater is on the dryer. If manual resetting thermostat is open circuit, the button is up and the heater does not work. If the button is up position,push the button down,and measure the thermostat and be sure that it is short circuit.



4.15. Door NTC:

Door NTC (ohm) : 12.000 ohm @ 25°C

4.16. Body:

4.16.1. Material : Sheet metal
4.16.2. Finish : Acrylic powder paint

4.17. Drum:

4.17.1. Material : Stainless Steel - Aquawave
4.17.2. Volume (lt) : 102 (for 7 kg) / 118 (for 8 kg)
4.17.3. Drum speed (rpm) : 54-57
4.17.4. Front door opening (mm) : 395x320
4.17.5. Process air flow (m³/h) : 315
4.17.6. Maximum loading Capacity:
Cotton(kg) : 7 / 8
Delicate, Synthetic (kg) : 3,5 / 4

4.18. Control System Specifications:

4.18.1. Door Switch : 250 V, 3 (1)A or 16(4)A
4.18.2. Suppression Filter : 0,47µF(X2) + 0,68 Mohm + 2x0,027 µF(Y2) + 2x1 mH
4.18.3. Program Timer : Electronic controller 220-240V,50Hz

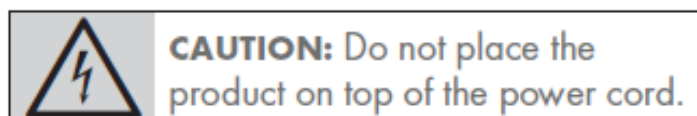
5. Installation:

Refer to the nearest Authorized Service Agent for installation of the product. To make the product ready for use, make sure that the electricity and water drainage systems are appropriate by reading the information/ instructions given in the user manual before calling the Authorized Service Agent. If they are not, call a qualified technician and plumber to have any necessary arrangements carried out.

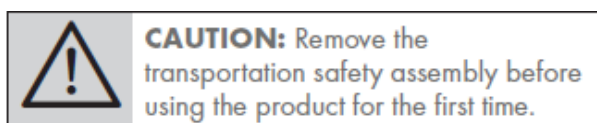
	Preparation of the product's location as well as the electrical, clean water and waste water installations is under customer's responsibility.
	CAUTION: Installation and electrical connections of the product must be performed by the Authorized Service Agent. Manufacturer shall not be held liable for damages that may arise from procedures carried out by unauthorized persons.
	CAUTION: Prior to installation, visually check if the product has any defects on it. If so, do not have it installed. Damaged products cause risks for your safety.
	CAUTION: Let your dryer wait for 12 hours before starting to use it.

5.1. Appropriate Installation Location:

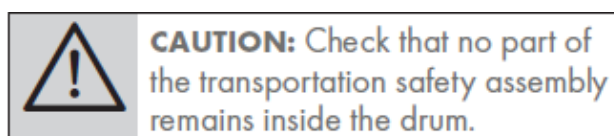
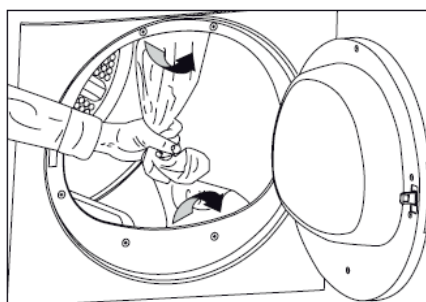
- Install the product on a stable and level surface.
- Dryer is heavy. Do not move it by yourself.
- Operate your product in a well ventilated, dust-free environment.
- Do not block the air ducts in front of and under the product with materials such as long pile rugs, wooden blocks and bands.
- Do not install the product behind a door with a lock, sliding door or a hinged door which can strike the product.
- Once the product is installed, it should stay at the same place where its connections have been made. When installing the product, make sure that the rear wall of it does not touch anywhere (tap, socket, etc.). Also pay attention to select an installation location which you will not be required to change afterwards.
- Place the product at least 1.5 cm away from the edges of other furniture.



5.2. Removing the Transportation Safety Assembly:



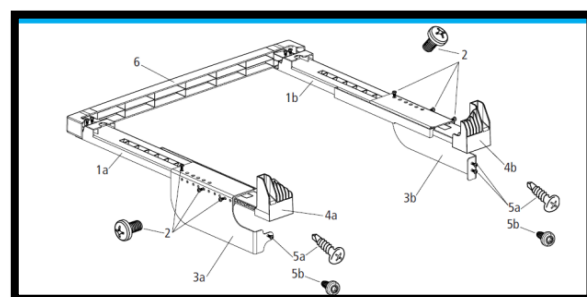
- Open the loading door.
- There is a nylon bag inside the drum that contains a piece of styrofoam. Hold it from its section marked with XX XX.
- Pull the nylon towards yourself and remove the transportation safety assembly.



5.3. Mounting over a Washing Machine:

- A fixing device should be used between the two machines when installing the dryer above a washing machine. The fixing device must be installed by the Authorized Service Agent.

Dryer Model	Appropriate Stacking Kit Stock Numbers / Colour
60 cm CNDU / Heat Pump	2985400200 / White
60 cm CNDU / Heat Pump	2985400400 / Silver
60 cm CNDU / Heat Pump	2985400400 / Red

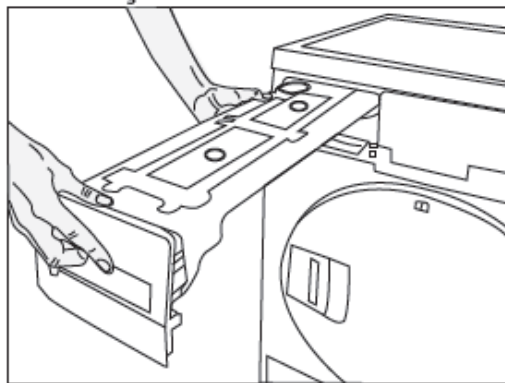


- In the above table, the stock numbers of the appropriate stacking kits for the specified coloured dryer models are given. For the other types of coloured dryer models, the stock numbers of the stacking kits can differ from the table above. For these cases, please contact with the Authorized Service Agent to assembly the appropriate stacking kits.

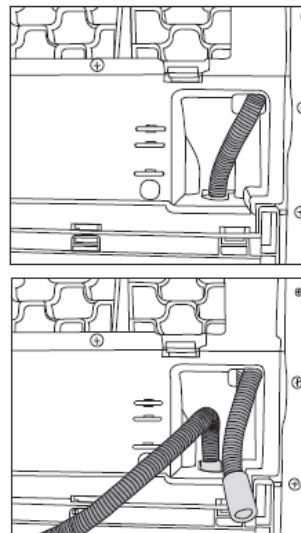
- Total weight of the washing machine and the dryer -with full load- when they are placed on top of each other reaches to approx. 180 kilograms. Place the products on a solid floor that has sufficient load carrying capacity!

5.4. Connecting to the Drain:

- In products equipped with condenser unit, water accumulates in the water tank during the drying cycle. You should drain accumulated water after each drying cycle.



- You can directly drain accumulated water through the water drain hose supplied with the product instead of periodically draining the water collected in the water tank.



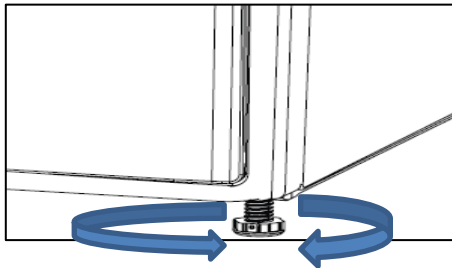
Connecting the water drain hose:

- Pull hose in the product by hand in order to disconnect it from where it is connected. Do not use any tools to remove the hose.
- Connect one end of the drain hose supplied separately with the product to the connection point from where you removed the hose of the product in previous step.
- Connect the other end of the drain hose directly to the wastewater drain or to the washbasin.

	CAUTION: Hose must be fixed in every type of connection. Your house will be flooded if the hose comes loose during water discharge.
	Attach the water drain hose to a height of maximum 80 cm.
	Make sure that the water drain hose is not stepped on, twisted or bent between the drain and the machine.

5.5. Adjusting the feet:

- In order to ensure that the product operates more silently and vibration-free, it must stand level and balanced on its feet. Balance the machine by adjusting the feet.
- Turn the feet to left or right until the machine stands level and firmly.



	CAUTION: Never unscrew the adjustable feet from their housings.
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5.6. Electrical Connection:

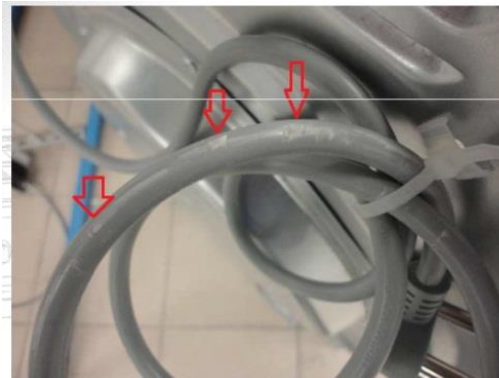
Connect the product to a grounded outlet protected by a fuse complying with the values in the "Technical specifications" table given in the user manual. Our company shall not be liable for any damages that will arise when the product is used without grounding in accordance with the local regulations.

- Connection must comply with national regulations.
- Power cable plug must be within easy reach after installation.
- The voltage and allowed fuse or breaker protection are specified in the "Technical specifications" section in the user manual. If the current of the fuse is less than 10 Amperes, please have a qualified electrician install a 10 Ampere fuse.
- The specified voltage must be equal to your mains voltage.
- Do not make connections via extension cables or multi-plugs.
- The main fuse and switches must have a contact distance of minimum 3 mm.



Inappropriate Extension Cable Usage

- When wearing or crushing is encountered on the power supply cord, it should not be repaired, it should only be replaced with the new one.



5.7. Transportation of the Product:

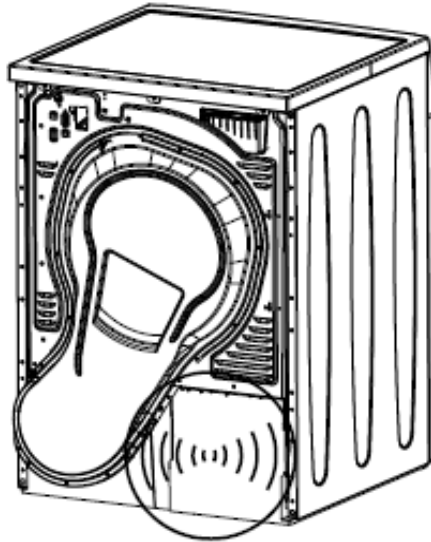
- Unplug the product before transporting it.
- Remove the water drain (if any) and chimney connections.
- Drain the water in the product completely.

	CAUTION: We recommend carrying the product in upright position. If it is not possible to carry the machine in the upright position, we recommend carrying it by tilting towards the right side when looked from the front. After the product is moved to its new place, wait for 12 hours before starting it.
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5.8. Warnings related to sound:



Water collected during operation is pumped to water tank via water pump. It is normal to hear pumping noise during this process.



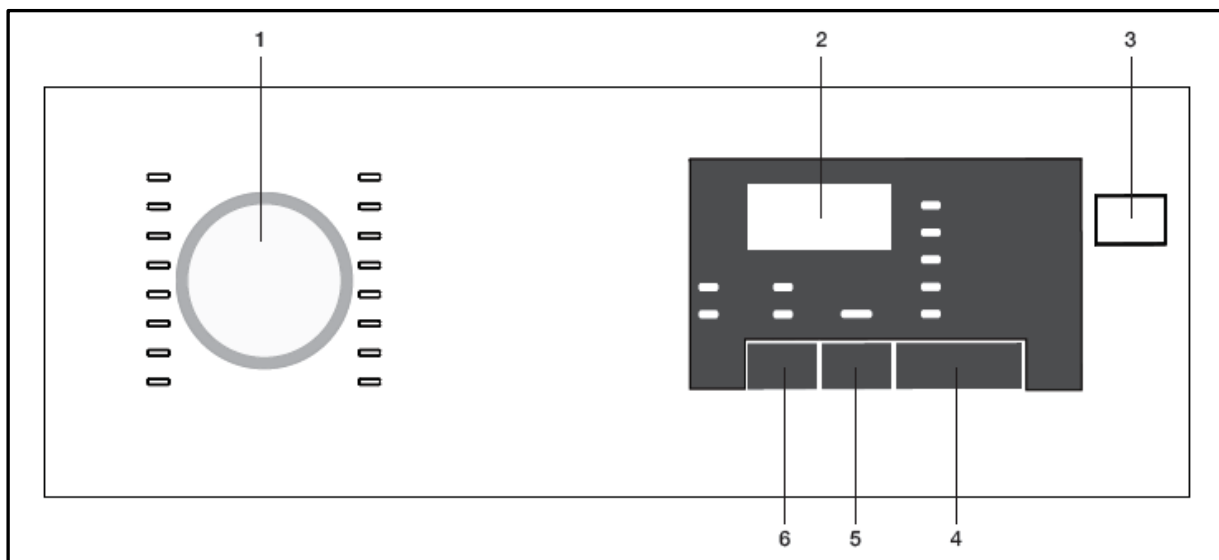
6. Operating the Product:

6.1. Preparation:

Before operating the product, the user should be informed referred to the preparation section (4th section) in the user manual. The important items for the preparation are given below:

- 6.1.1. Laundry suitable for drying in the machine
- 6.1.2. Preparing clothes to be dried
- 6.1.3. Things to be done for energy saving
- 6.1.4. Correct load capacity
- 6.1.5. Loading the laundry

6.2. Control Panel:



- 1. Programme Selection Knob
- 2. Remaining Duration Indicator
- 3. On/Off Button
- 4. Start/Pause Button
- 5. End Duration Button
- 6. Sound Warning Button

Figure 6.1 Control Panel Buttons

6.3. Display Symbols:

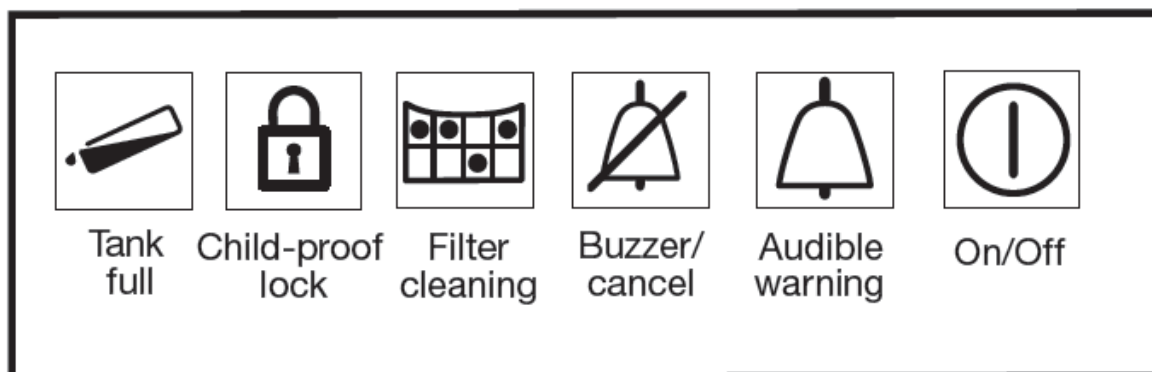
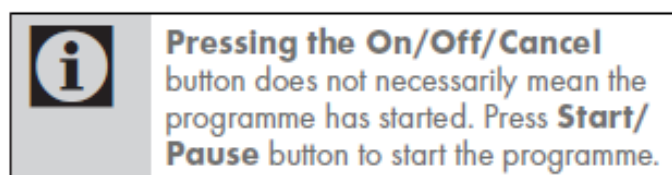


Figure 6.2 Explanation of the Display Symbols

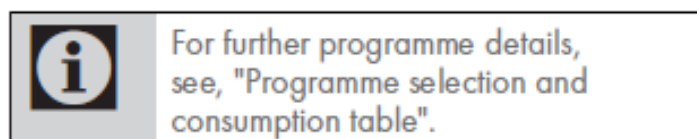
6.4. Preparing the Machine:

- Plug in the machine.
- Place the laundry in the machine.
- Press the On/off/cancel button for 1 second (long).
- When your machine is operated for the first time, it starts with the declaration programme (wardrobe dryness for cottons).



6.5. Programme Selection:

- Decide the appropriate programme from the table below which includes drying levels.
- Select the desired programme with the **Programme Selection** knob.



Extra Dry	Only the cotton laundry is dried at normal temperature. Thick and multi layered laundry (towels, linens, jeans and etc.) are dried in a way that they do not require ironing before being placed in the wardrobe.
Wardrobe Dry	Normal laundry (tablecloths, underwear and etc.) are dried in a way that they do not require ironing before being placed in the wardrobe.
Iron Dry	Normal laundry (shirts, dresses and etc.) are dried ready to be ironed.

6.6. Main programmes:

Depending on the fabric type, the following main programmes are available:

- **Cottons:**

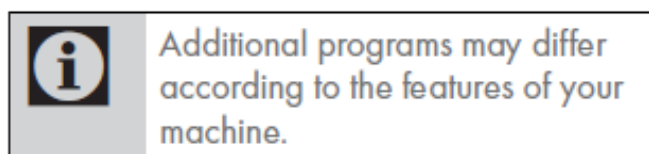
Dry durable laundry with this programme. Dries at normal temperature. It is recommended to use for your cotton items (bed sheets, quilt covers, towels, bathrobes, etc.).

- **Synthetics:**

Dry less durable laundry with this programme. Recommended for synthetics.

6.7. Additional programmes:

For special cases, following additional programmes are available in the machine.



- **Jeans:**

Use this programme to dry your jeans that are spun at high speeds in the washing machine.

- **Mixed:**

Use this programme to dry non-pigmenting synthetic and cotton laundry items together.

- **Sportswear:**

Use this programme to dry together the synthetic and cotton laundry items and the laundry items made of mixed fabrics.

- **Daily:**

This programme is used to dry cottons and synthetics daily.

- **Shirt 15':**

Use this programme to make 2 shirts ready for ironing in 15 minutes.

- **Delicates:**

You can dry your highly delicate laundry (silk blouses, fine underwear, etc.) that are suitable for drying or laundry which is advised to be hand-washed at a lower temperature.



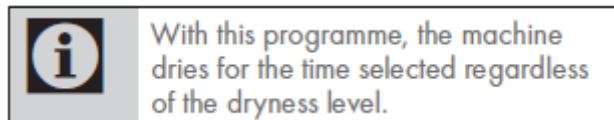
It is recommended to use a cloth bag to avoid certain delicate garments and laundry from getting creased or damaged. Take your laundry immediately out of the dryer and hang them after the programme ends in order to prevent them being creased.

- **Refresh:**

Only ventilation is performed for 10 minutes without blowing hot air. You can air the clothes that have been kept at closed environments for a long time and deodorize unpleasant odors thanks to this programme.

- **Timer Programmes:**

You can select one of the 10 min., 20 min., 30 min., 40 min., 50 min. and 60 min. timer programmes to achieve the desired final drying level at low temperatures.



6.8. Programme selection and consumption table:

Programs	Capacity (kg)	Spin speed in washing machine (rpm)	Approximate amount of remaining humidity	Drying time (minutes)
Cottons / Coloreds				
 Extra dry	8	1000	% 60	138
 Cupboard dry	8	1000	% 60	134
 Iron dry	8	1000	% 60	105
Shirts 15 min	1.5	1200	% 60	15
Jeans	4	1200	%50	80
Sport	4	1000	%60	92
Delicates	2	600	%40	40
BabyProtect	3	1000	% 60	65
Synthetics				
 Cupboard dry	4	800	% 40	53
 Iron dry	4	800	% 40	40
Energy consumption values				
Programs	Capacity (kg)	Spin speed in washing machine (rpm)	Approximate amount of remaining humidity	Energy consumption value kWh
Cupboard dry for cottons*	8	1000	% 60	4.73
Iron dry for cottons	8	1000	% 60	3.8
Cupboard dry for synthetics	4	800	% 40	1.8
Power consumption of the off-mode for the standart cotton programme at full load, PO (W)				0.3
Power consumption of the left-on mode for the standart cotton programme at full load, PL (W)				1.0
 "Cotton cupboard dry programme" used at full and partial load is the standard drying programme to which the information in the label and the fiche relates, that this programme is suitable for drying normal wet cotton laundry and that it is the most efficient programme in terms of energy consumption for cotton .				
* : Energy Label standard program (EN 61121:2012) All the values in the table are determined according to EN 61121:2012 standard. Consumption values may vary from the values in the table depending on laundry type, wringing revolution, ambient conditions and changes in voltage.				

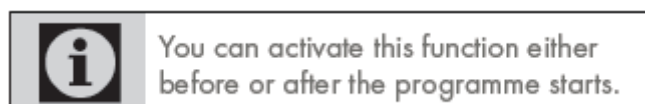
Table 6.1 Programme selection and consumption table:

All values given in the table have been fixed according to EN 61121:2012 Standard. This table is given as a reference. These values may deviate from the values in the table according to the laundry type, laundry spin speed, environmental conditions, voltage fluctuations and also the model of the dryer.

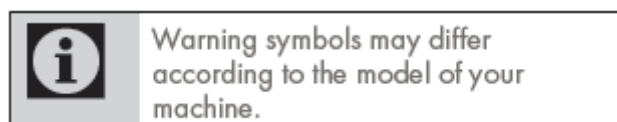
6.9. Auxiliary functions:

6.9.1. Audio Warning:

The machine will give an audio warning when the programme comes to an end. If you don't want sound notifications, press the "Sound Notification" button. When you press the sound notification button it lights up, and program does not make sound notifications when completed.

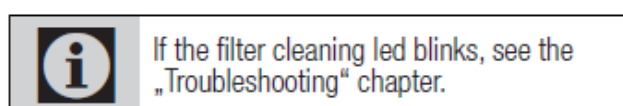


6.10. Warning symbols:



6.10.1. Lint filter cleaning:

When the program is completed, a warning led lights up, which indicates that the filter has to be cleaned.



6.10.2. Water tank:

When the program is completed, a warning led lights up, which indicates that the water tank must be emptied. If the water tank fills up while the program is running, warning led starts blinking and the machine goes into stand-by. In that case empty the water in the water tank and start the program by pressing the Start / Pause button. Warning led turns off and the program resumes.



6.10.3. Cleaning the Condanser:

Warning symbol flashes with certain intervals to remind that the condanser needs to be cleaned.



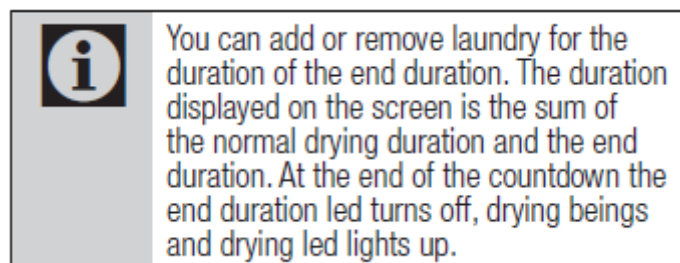
6.10.4. Loading door open:

Start/Pause led blinks when the loading door of the drying machine is open.

6.11. End Duration:

End Duration function allows you to delay the ending time of the programme up to 24 hours.

- Open the loading door and put the laundry in.
- Select the drying programme, spin speed and, if required, the auxiliary functions.
- Press **End Duration** selection button to set the desired End Time. **End Duration** led lights up. (When the button is pressed and hold, End Time proceeds uninterruptedly).
- Press **Start/Pause** button. **End Duration** starts to count down. The “:” in the middle of the displayed **delay duration** will start to flash.



6.11.1. Changing the End Duration:

If you want to change the time during countdown:

- Press **On/Off/Cancel** button for 3 seconds to cancel the programme. Restart the machine and repeat the End Duration procedure for the desired time.
- Machine starts with the declaration programme (wardrobe dryness for cottons).

6.11.2. Canceling End Duration Function:

If you want to cancel the End Duration countdown and start the programme immediately:

- Press **On/Off/Cancel** button for 3 seconds to cancel the programme.
- Press **On/Off/Cancel** button to start the programme you have previously selected.

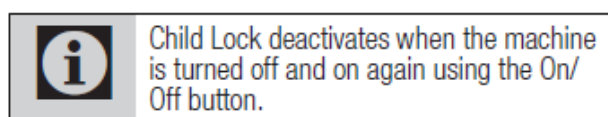
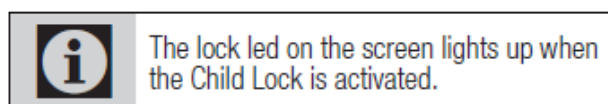
6.12. Starting the Programme:

Press **Start/Pause** button to start the program. **Start / Pause** led and the **drying led** that indicates the startup of the program light up. The ":" in the middle of the screen will continue flashing.

6.13. Child Lock:

Machine is equipped with a Childproof Lock which prevents interfering with the current programme flow by pressing any button. All buttons except the **On/Off/Cancel** button on the control panel are deactivated when the Child-proof Lock is active.

In order to activate the Childproof Lock, press the Sound Notification and End Duration button simultaneously for 3 seconds. To start a new programme after the current programme is over or to interrupt the current programme, the Child-proof Lock should be deactivated. Press the same button for 3 seconds again **to deactivate the Child Lock**.



6.14. Changing the programme after it has started:

After the machine starts, you can change the selected programme and dry your laundry in a different programme.

- If you want to select Extra Dry programme instead of Iron Dry programme, press the **Start / Pause** button for 1 second to stop the programme.
- Select Extra Dry programme by turning the Programme Selection knob.
- Press the **Start/Pause** button to start the program.

6.15. Adding / removing Laundry in Pause mode:

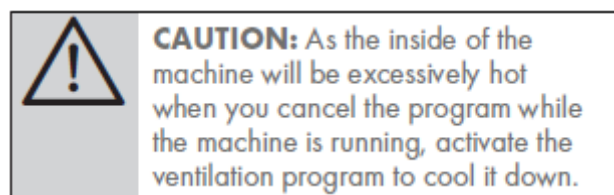
In order to add or take out laundry after the drying programme has started:

- Press Start/Pause button to switch the machine to Pause mode. Drying process will stop.
- While in Pause mode, open the loading door, add or take out laundry and close the loading door.
- Press the Start/Pause button to start the program.

	Any laundry added after the drying process has started may cause the clothes that are already dried in the machine intermingle with wet clothes and the result will be wet laundry after the drying process is over.
	You may repeat laundry adding or removing process as many times as you desire during drying. However, this process will increase the programme time and energy consumption since the drying process will be interrupted repeatedly. Therefore, it is recommended to add laundry before the drying programme has started.
	If you select a new programme by turning the Programme Selection knob while your machine is in Pause mode, then the current program is aborted and new programme information is displayed.
	CAUTION: Do not touch the inner surface of the drum when adding or taking out laundry while a programme is running. Surfaces of the drum are hot.

6.16. Canceling the programme:

If you want to stop drying and cancel the programme for any reason after the machine has started to run, press and hold the **On/Off/Cancel** button for 3 seconds.



6.17. End of Programme:

When the program ends, the Final/Wrinkle Prevention, Filter Cleaning and Water Tank Warning leds on the program follow up indicator light up. Loading door can be opened and machine becomes ready for a second run.

Press the On/Off button to turn off the machine.

	If Anti-creasing function is activated and the laundry is not taken from the machine at the end of the programme, 2-hours(changes subject to selection) Anti-creasing programme is activated.
	Clean the lint filter after each drying. (See "Lint Filter and Loading Door Inner Surface")
	Drain the water tank at the end of each drying. (See "Draining the water tank")

7. Maintenance and Cleaning:

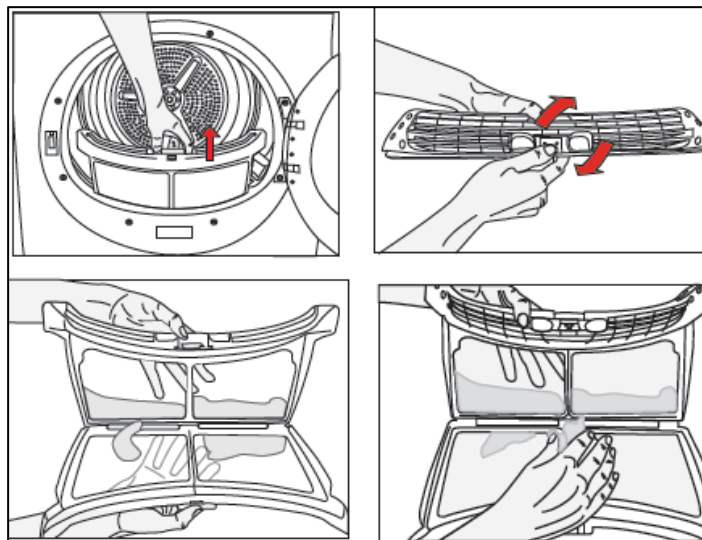
7.1. Lint Filter / Loading Door Inner Surface:

Lint and fiber released from the laundry to the air during the drying cycle are collected in the Lint Filter.

	Such fiber and lint are generally formed during wearing and washing.
	CAUTION: Always clean the lint filter and the inner surfaces of the loading door after each drying process.
	You can clean the lint filter housing with a vacuum cleaner.

To clean the lint filter:

- Open the loading door.
- Remove the lint filter by pulling it up and open the lint filter.
- Clean lint, fiber, and cotton raveling by hand or with a soft piece of cloth.
- Close the lint filter and place it back into its housing.



	A layer can build up on the filter pores that can cause clogging of the filter after using the machine for a while. Wash the lint filter with warm water to remove the layer that builds up on the lint filter surface. Dry the lint filter completely before reinstalling it.
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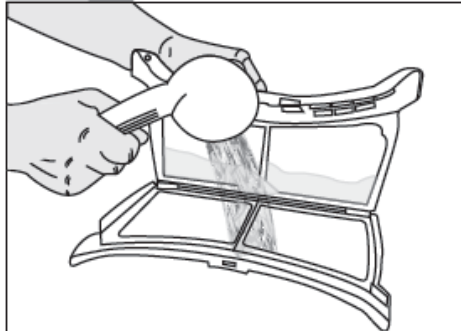
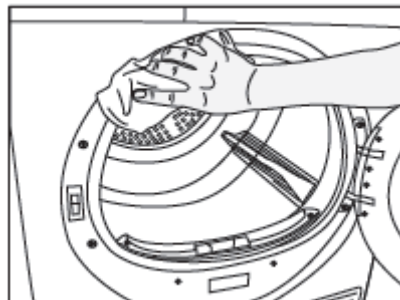
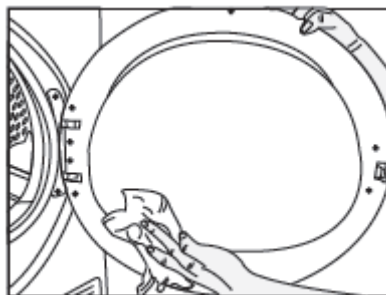


Figure 7.2 Washing the Lint Filter



Clean the entire inner surface of the loading door and loading door gasket.



*Figure 7.3 Cleaning the Loading Door
Inner Surface*

7.2. Cleaning the Sensors:

There are dampness sensors in the machine that detect whether the laundry is dry or not.

To clean the sensors:

- Open the loading door of the machine.
- Allow the machine to cool down if it is still hot due to the drying process.
- Wipe the metal surfaces of the sensor with a soft cloth, dampened with vinegar and dry them.

	Clean metal surfaces of the sensors 4 times a year.
	Do not use metal tools when cleaning metal surfaces of the sensors.
	CAUTION: Never use solvents, cleaning agents or similar substances for cleaning due to the risk of fire and explosion!

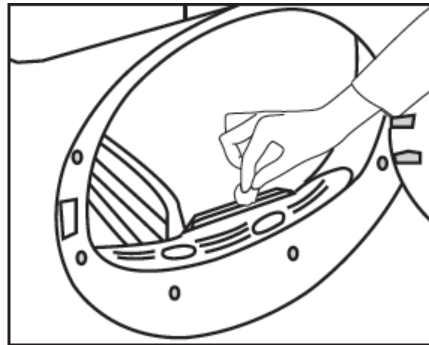


Figure 7.4 Cleaning the Sensors

7.3. Draining the water tank:

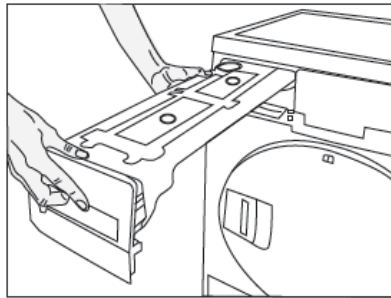
Dampness of the laundry is removed and condensed during drying process and the water that arise accumulates in the water tank. Drain the water tank after each drying cycle.

	CAUTION: Condensed water is not drinkable!
	CAUTION: Never remove the water tank when the program is running!

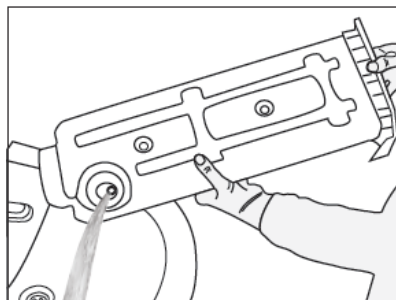
If you forget to drain the water tank, the machine will stop during the subsequent drying cycles when the water tank is full and the Water Tank warning symbol will flash. If this is the case, drain the water tank and press **Start / Pause** button to resume the drying cycle.

To drain the water tank:

- Pull the drawer and remove the water tank carefully.



- Drain the water in the tank.

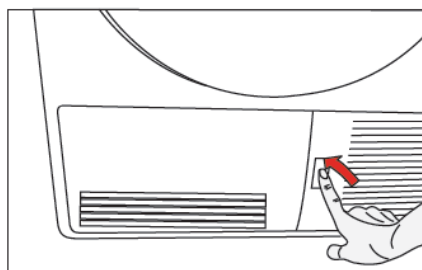


- If there is lint accumulation in the funnel of the water tank, clean it under running water.
- Place the water tank into its seat.

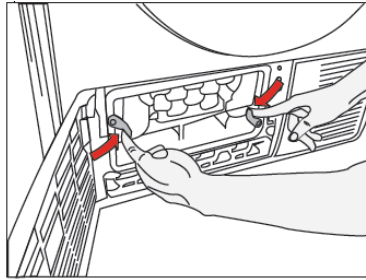
7.4. Cleaning the condanser:

Hot and humid air in the condenser is cooled with the cold air from the room. Thus, the humid air circulating in your dryer is condensed and then pumped into the tank.

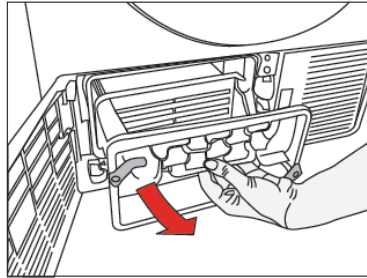
- Clean the condenser after every 30 drying cycles or once a month.
- If a drying process has been carried out, open the door of the machine and wait until it cools down.



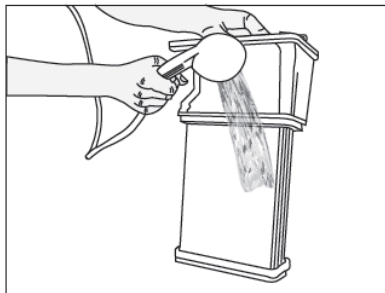
- Unlock the 2 condenser locks after opening the kick plate.



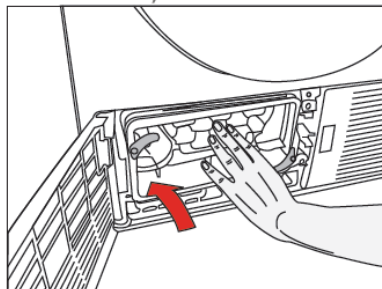
- Pull out the condenser



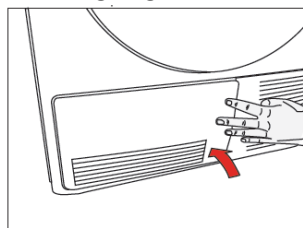
- Clean the condenser by applying pressurized water with a shower armature and wait until the water drains.



- Place the condenser in its housing. Fasten the 2 locks and make sure that they are seated securely



- Close the kick plate cover as highlighted below Picture.



8. General Working Principle:

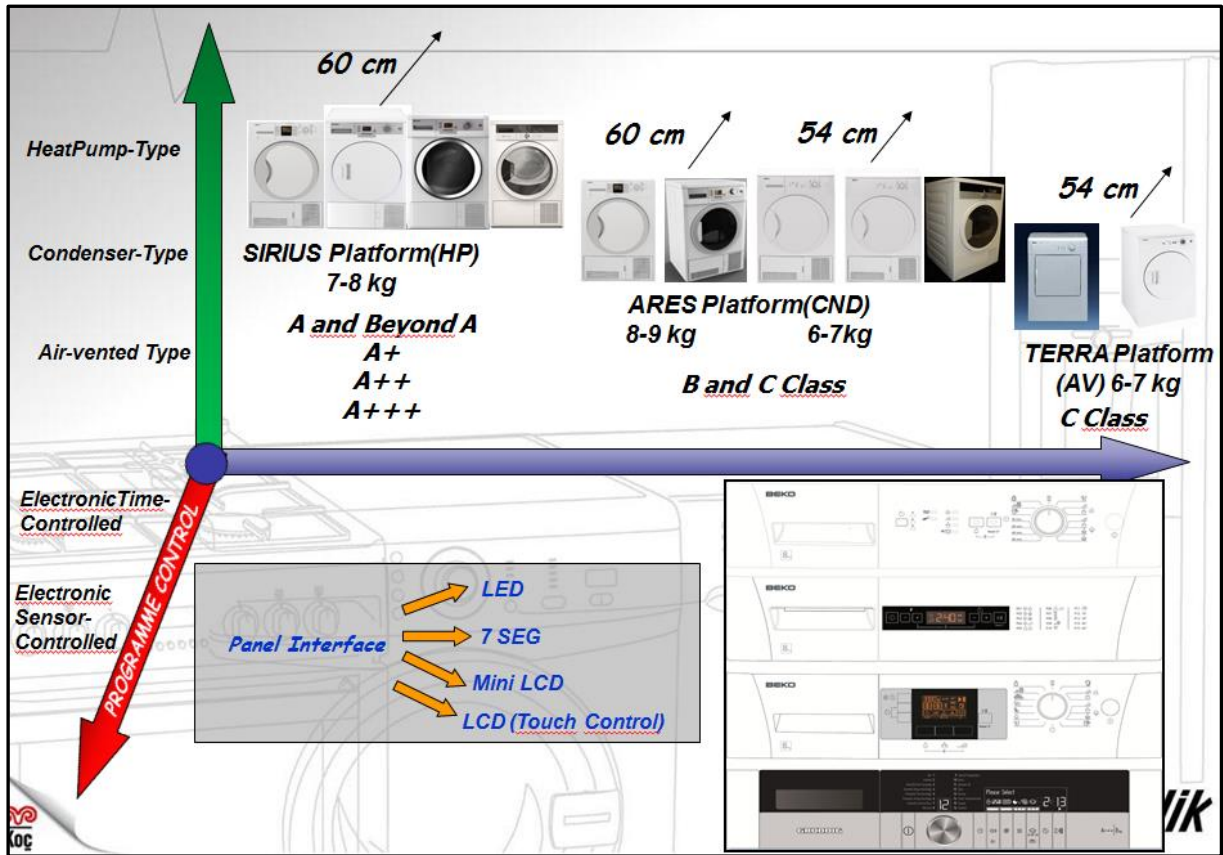
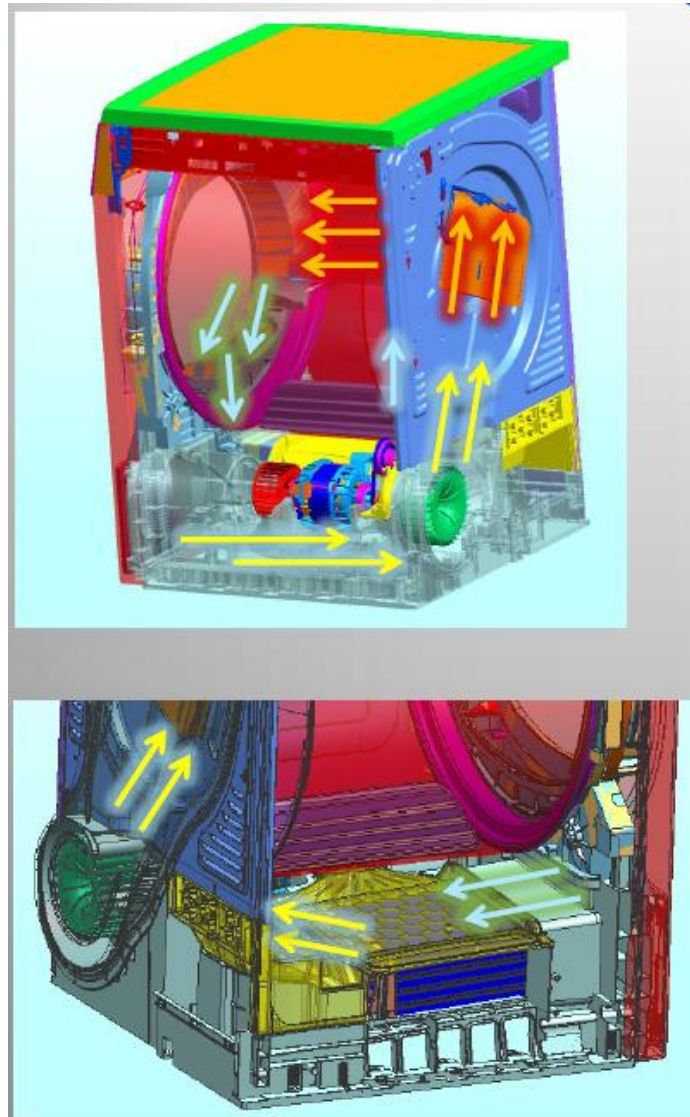


Figure 8.1. Tumble Dryer Product Specification

8.1. Condanser Dryer Working Principals:



- Firstly, the process air is sucking from ambient it goes to to the electrical heater
- The process air is heated in the electrical heater and directed into the drum
- The hot and the dry air goes through the drum, it interacts with laundries and takes out the humidity from them.
- The hot and humid air is exiting from the drum and passing by the lint filter , then it is directed to the condanser
- The cooling air is suctioned from the environment by using the cooling fan in the system.
- By using the cooling fan, the cooling air passes through the condanser.
- The cooling air interacts with the process air in the condanser, the process air cools down and condenses.
- The dry air from the condanser is directed to the heater by the process fan.

8.2. Components Related to the Drying Cycle:

8.2.1. Heater:

Two circuit open spiral wire type heater is driven by the 2 relays. A manual resettable thermostat is used on these heater, in order to provide IEC safety rules accordingly. This manual resettable thermostat cut the heater power at prescribed temperature and can be resetted by pressing the button on thermostat, so heater can be used after a failure because of thermostat is open circuit.

The second temperature regulating element on the heater is NTC. When the desired temperatures is reached, electronic control card reads the resistance of NTC and if the prescribed resistance is reached, the heater is switched off.

This mechanical thermostat operates only;

- Locked tumble,
- Locked rotor,
- Broken fan,
- Filter and condenser is full, conditions.

When NTC is broken down, the heater is changed by the new heater. If thermostat is open circuit, the same heater will be used by pressing the button on thermostat.

8.2.2. Temperature Sensor (NTC) :

Two NTC temperature sensor are used on condenser type dryers, one is located after the door filter in air suction channel, other is located on the heater. As the temperature of the surrounding of NTC increases, its resistance decreases. At fixed temperature NTC will always have a specified resistance within the tolerance. With the aid of this principle it operates until the desired temperature is reached.

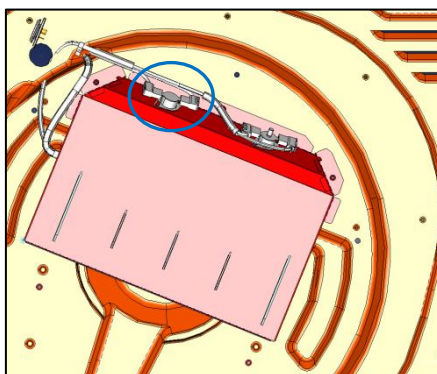


Figure 8.2. NTC located on the heater



Figure 8.3. NTC located after the door filter in air suction channel

Temperature, °C	Resistance, kΩ
0	52.210
5	40.600
10	31.815
15	25.116
20	19.966
25	15.981
30	12.873
35	10.434
40	8.511

*Table 8.1. Temperature – Resistance Values For 2971090100-0200
types of Heater NTC's*

Temperature, °C	Resistance, kΩ
0	68.446
5	52.448
10	40.452
15	31.522
20	24.707
25	19.500
30	15.487
35	12.378
40	9.955

Table 8.2. Temperature – Resistance Values For 2971090300-0400-0500-0600 types of Heater NTC's

Temperature, °C	Resistance, kΩ
0	68.446
25	52.448
30	40.452
40	31.522
60	24.707
70	19.500
95	15.487

Table 8.3. Temperature – Resistance Values For Door NTC's

8.2.3. Humidity Sensor:

Humidity level will be measured by the resistance of clothes. With this property of the humidity sensor, it is possible to check and control the humidity level precisely. It is driven by microcontroller.

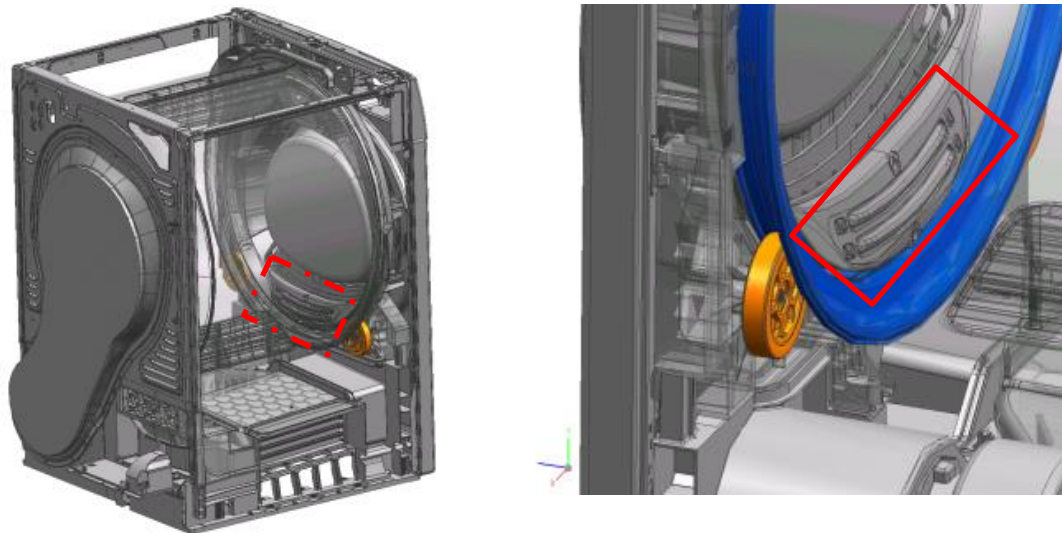


Figure 8.4. Humidity Sensor

8.2.4. Door Lock:

Locking and unlocking mechanism of the door lock used in the dryer is a mechanical type of the door lock. When the door pushed, the door is locked and closed. When the pull from the handle of the door, it will be opened with a suitable force. This mechanism is designed such that if a child is locked inside the dryer, the door can be opened from inner side. Especially, door lock and hinge should be checked if there is a locking problem.

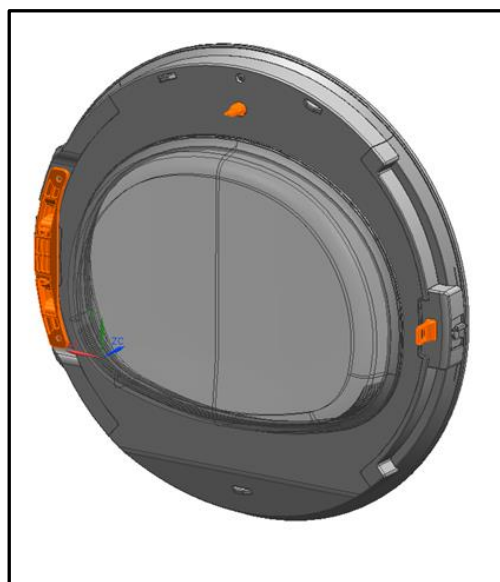


Figure 8.6. Door Lock

8.2.5. Door Microswitch:

The current is sent to electronic card and motor by the door switch. By this way when door is opened due to any reason, motor stops automatically. However, because of EN&IEC

safety rules, when the door is closed again, motor does not start. It is necessary to press start/pause button to restart dryer.

8.2.6. Motor:

Tumble and fan are driven by 1 pole induction motor. Motor rotates at 2750 rpm and has a 9 μ F capacitor. Asynchronous motor is controlled by two relays. One of them is for direction, other one is for energy. Two relays are embedded on the control panel.

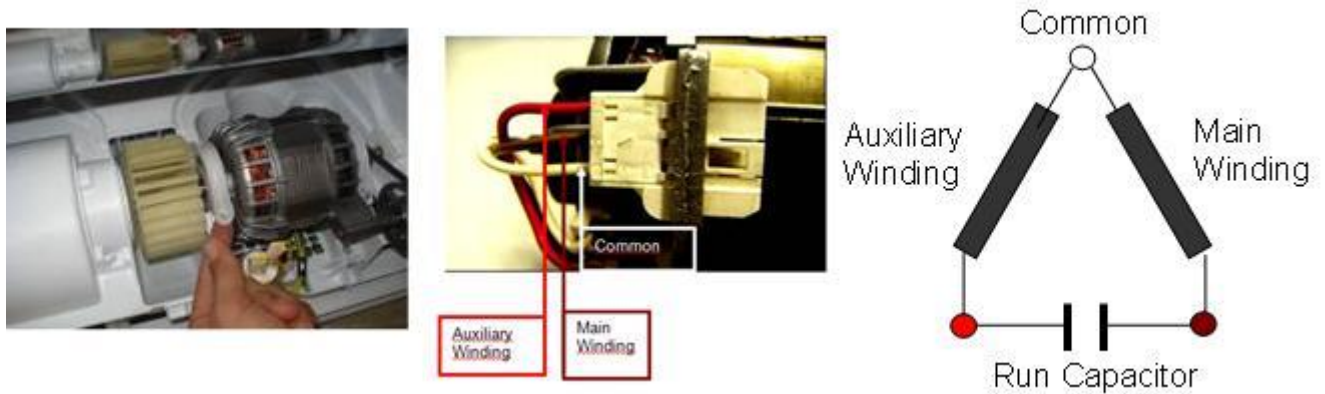


Figure 8.7. Asynchronous Motor

In the condenser models with energy class B and the Silent machines, the drum and fan are driven by brushless direct current (BLDC) motor. This motor communicates with the electronic board by the aid of the motor communication port.

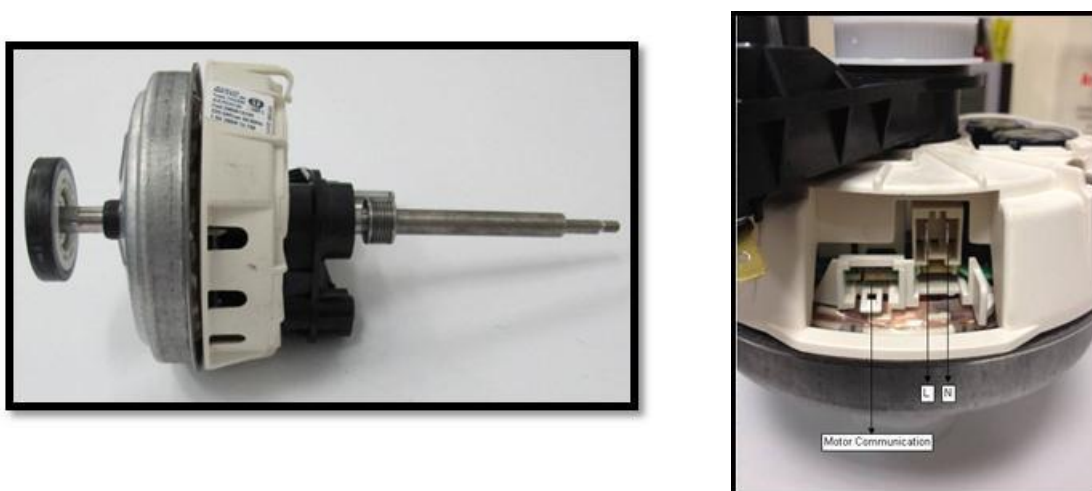


Figure 8.8. BLDC Motor

9. Electronic Components:

9.1. Electronic Card Assembly:

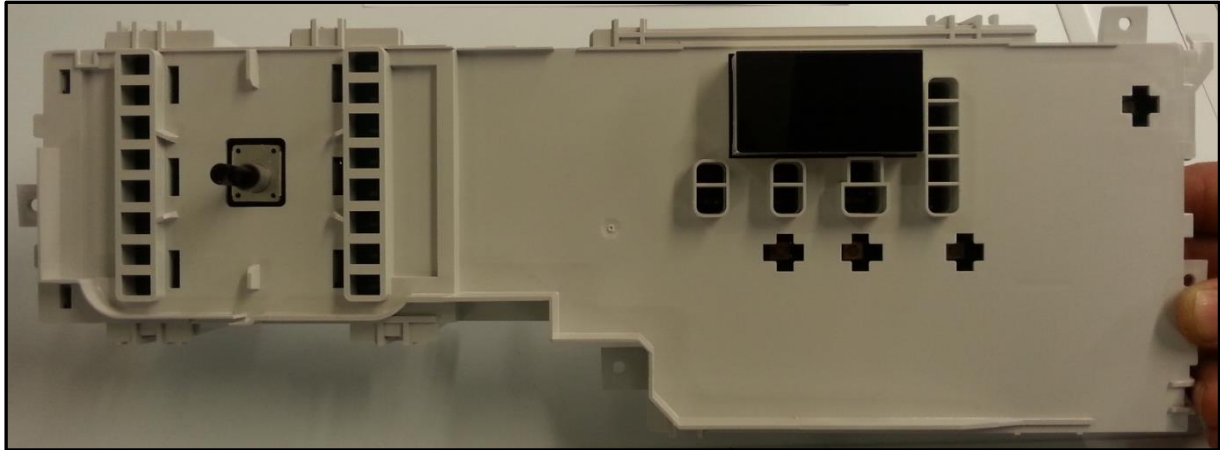
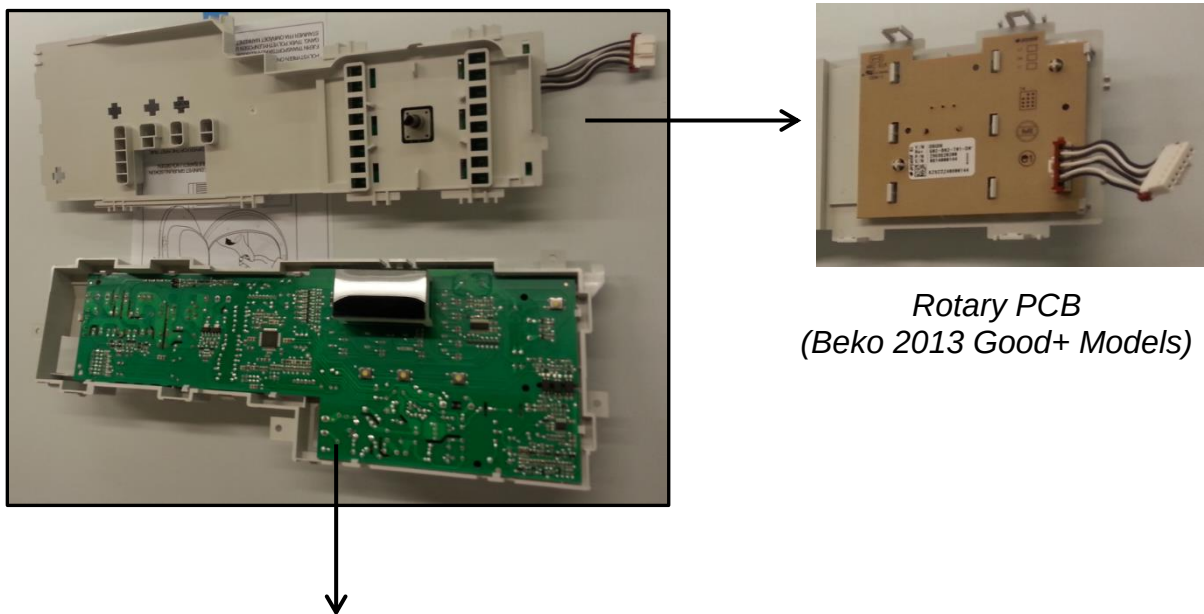


Figure 9.1. The Main Board Assembly



*Rotary PCB
(Beko 2013 Good+ Models)*

The Main Board (Beko 2013 Good+ Models)

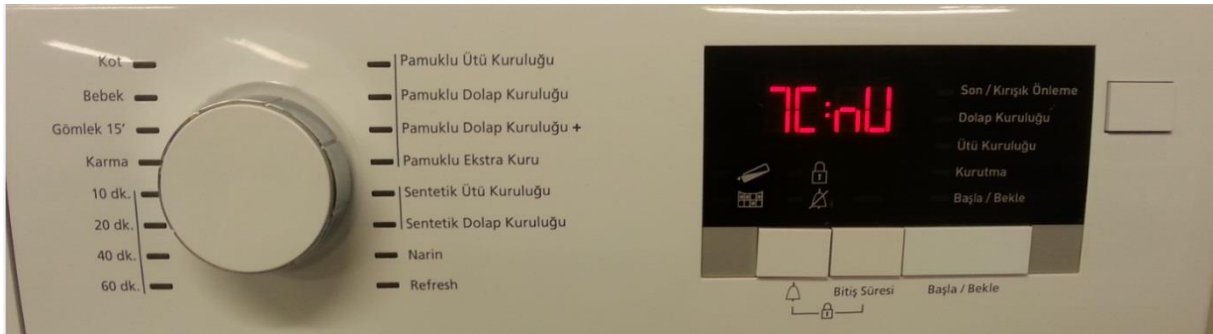
Beko 2013 Good+ Condanser Tumble Dryers have one electronic card assembly. The main board is located behind the front panel and on this main board assembly, there is a rotary PCB which is connected to the main board via connector.

10. Service Test Program:

Step 1: Press the end time setting selection (1) and play/pause (2) button at least 1 sec, then press the On/Off/Cancel (3) button 3 seconds, these combination will start service test program. In this program start/pause button (2) is used to pass other steps.



Step 2: Start/pause button is pressed, software version appears on display. (7C:nU: 7 kg condenser tank up model)



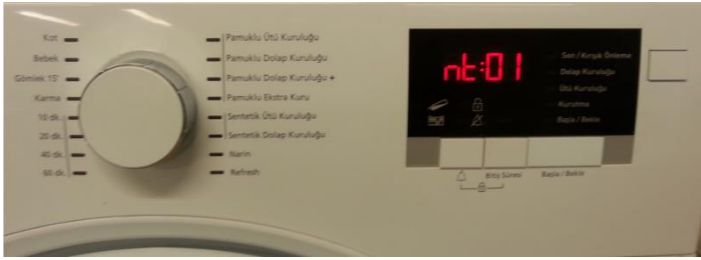
Step 3: Start/pause button is pressed, all leds around the programme selection knob and the remaining time indicator on the display lights, the other icons on the display blink.

Step 4: Start/pause button is pressed, software version "X:XX" appears on the display.

Step 5: Start/pause button is pressed, buzzer sounds "Error/Warning", all icons go on lighting and "88:88" appears on the display.



Step 6: Start / Pause button is pressed. The values of the heater NTC (nt02) and door NTC (nt01) are shown on the display.



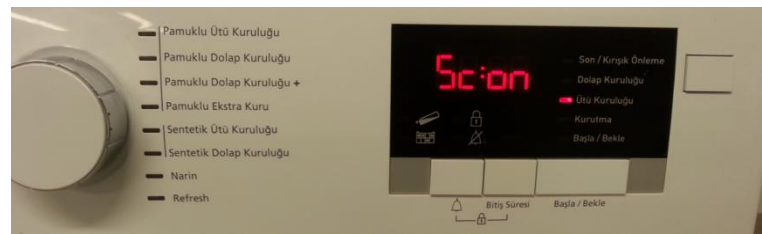
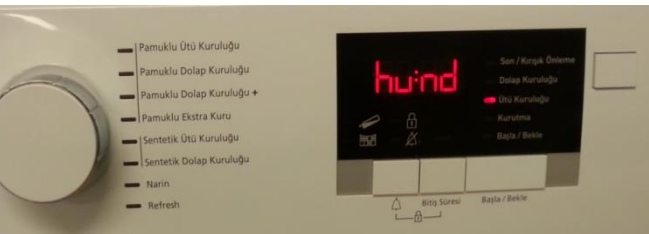
If NTC and Voltage Error occurs, **Er:or** appears on the display and the step cannot be passed to the next steps.

Important Note: If the product does not have a heater NTC and the production date of the product is before February 2022, the nt02 value will be displayed as 50. This is not an error.

Step 7: Start / Pause button is pressed. Motor rotates clockwise, **“Dr rr”** appears on the display and the drying led lights on. When the asynchronous motor rotates CW, it draws a current between 0,65A - 1,25A @ 230V; when the BLDC motor rotates CW, it draws a current between 0,65A - 1,45A @ 230V.



Step 8: Start / Pause button is pressed, **“hu:nd”** appears on the display and iron drying led turns on. Make the sensor short circuit by touching the sensor plate. **“Sc on”** appears on the



display.

Important note: At step 8, the sensor plate needs to be short circuited in 10 seconds, otherwise **“Sc:Er”** (short-circuit error) appears on the display. When **“Sc:Er”** appears on the display, below steps must be followed:

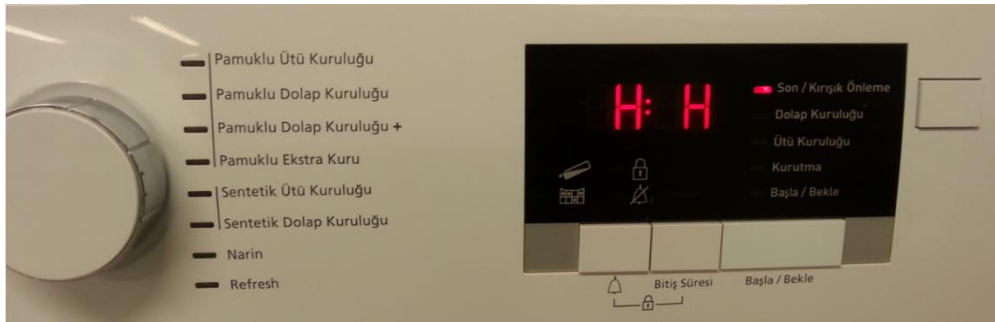
1. Dryer must be switched off and service test must be restarted.

2. If the same error is seen in second trial, a problem may be in humidity sensor cables and sockets. Please check humidity sensor cables and sockets.
3. A problem may be in humidity sensor.
4. If there is not a problem in above parts, a problem may be in main board.

Step 9: Start / Pause button is pressed and “H:L” appears on the display. The heater of 1600W power starts to work.



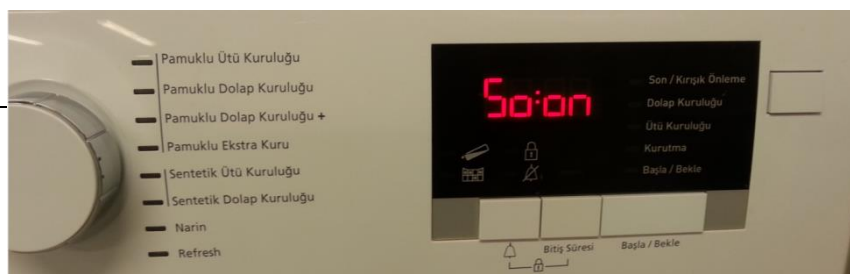
Step 10: Start / Pause button is pressed and “H:H” appears on the display. The heater of 1600W or 1400W etc. power starts to work.



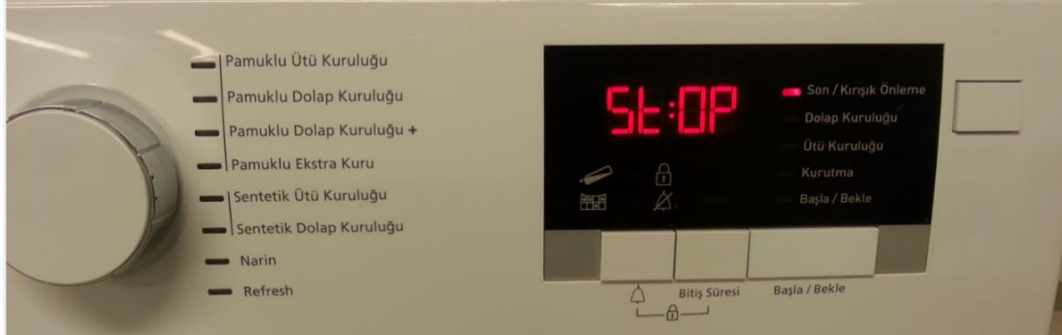
Step 11: Start / Pause button is pressed. All the components are turned off and “St:OP” appears on the display.



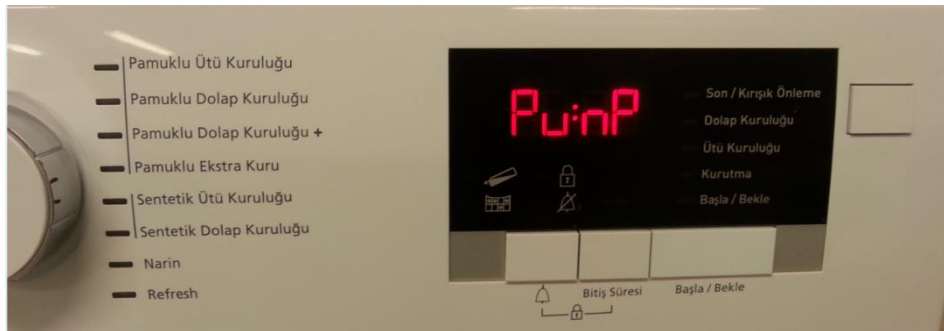
Step 12: Start / Pause button is pressed. If it is open circuit, “So on” appears on the display. Check the sensor if the sensor plates are open circuit. It cannot be passed to the next steps till the sensors are open circuit.



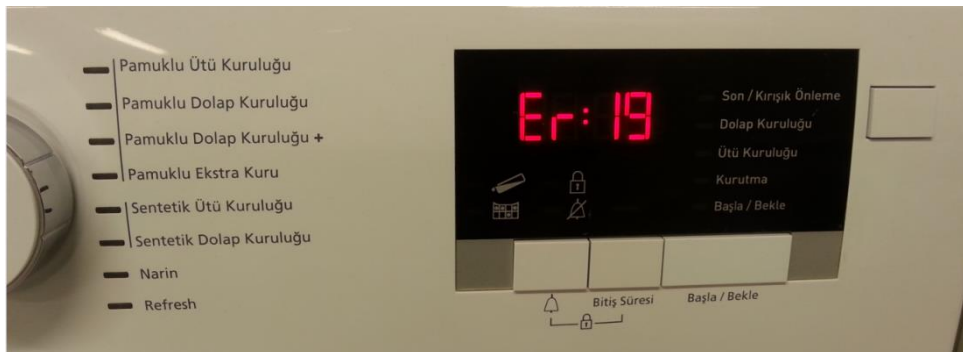
Step 13: Start / Pause button is pressed, all components . “St:OP” appears on the display.



Step 14: Start/Pause button is pressed. The pump activates, “Pu:nP” appears on the display. If the power socket of the overflow microswitch is not connected, the buzzer sounds and **Pu:Er** appears on the display in 1 second intervals. When the pump activates, the power consumption of the pump is 10W-20W @ 230V A.C. (0,04A – 0,1A)



Step 15: Start / Pause button is pressed. The last 5 error messages are shown on the display respectively.



Step 16: Start / Pause button is pressed. The test program will be exited.

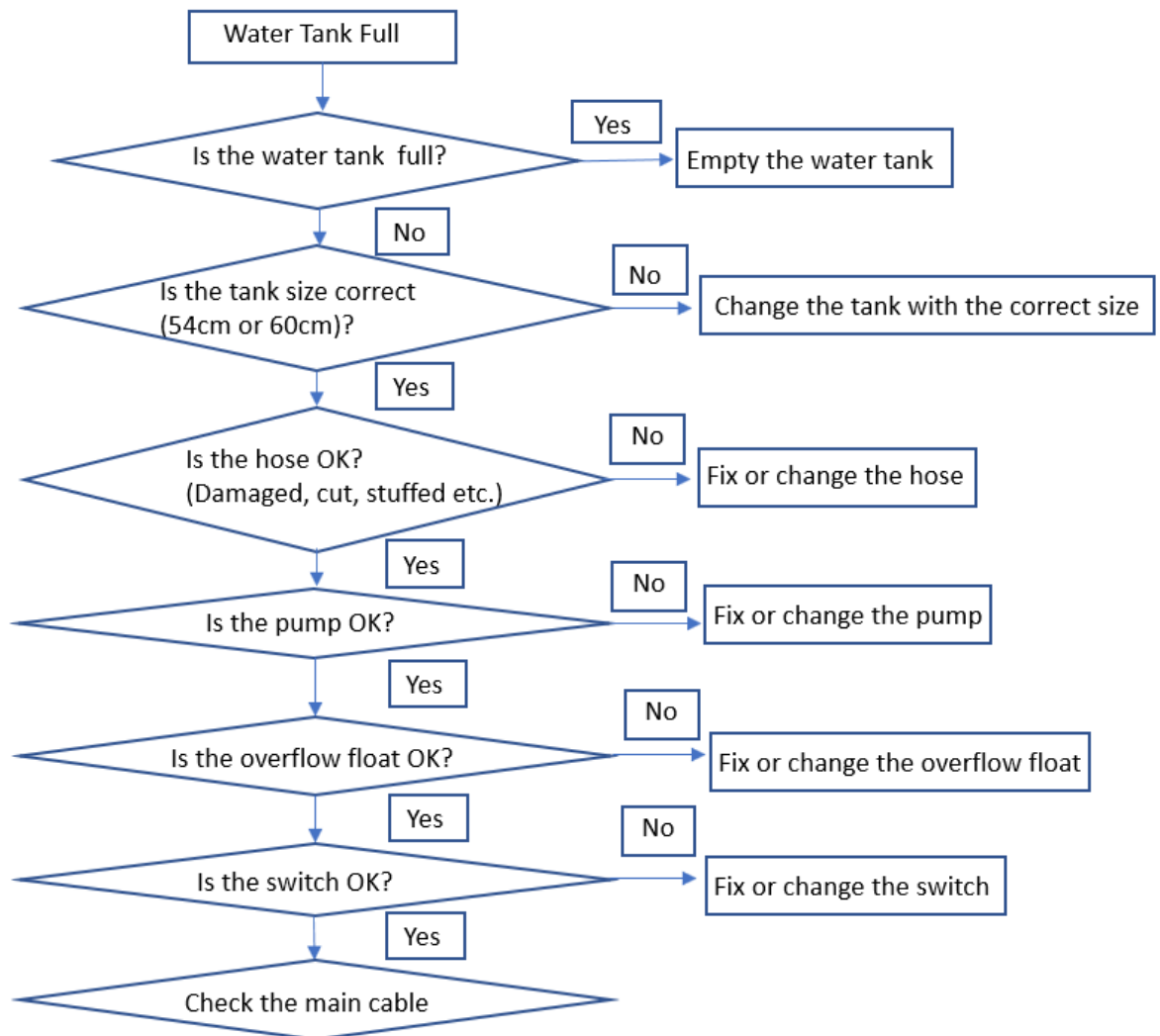
Error codes:

Error Codes Definition
Er 01 : Water Tank Full
Er 02 : Filter Blocked
Er 03 : Belt Broken
Er 04 : If the door NTC exceed its limit °C compressor will stop for 5 minutes.
Er 05 : Compressor / Heater NTC Overheat
Er 06 : Temperature difference is high between Heater and Door NTC
Er 07 : Rapid Temperature Increase
Er 08 : If the Door NTC is open circuit.
Er 09 : If the Door NTC is short circuit.
Er 10 : Compressor / Heater NTC Open Circuit
Er 11 : Compressor / Heater NTC Short Circuit
Er 12 : If the humidity sensor drying programs reaches its maximum time limit. These limits; Cottons and Synthetics are 300 minutes.
Er 13 : If the drum is empty. (Only beginning of sensor drying programs)
Er 14 : Low Voltage Error (Lower than 165V)
Er 15 : High Voltage Error (higher than 265V)
Er 16 : Start button pressed when the door is open.
Er 17 : Door is open during running.
Er 18 : Communication Error (Main board, Display board)
Er 19 : Program finished by user.
Er 20 : Program paused during running.

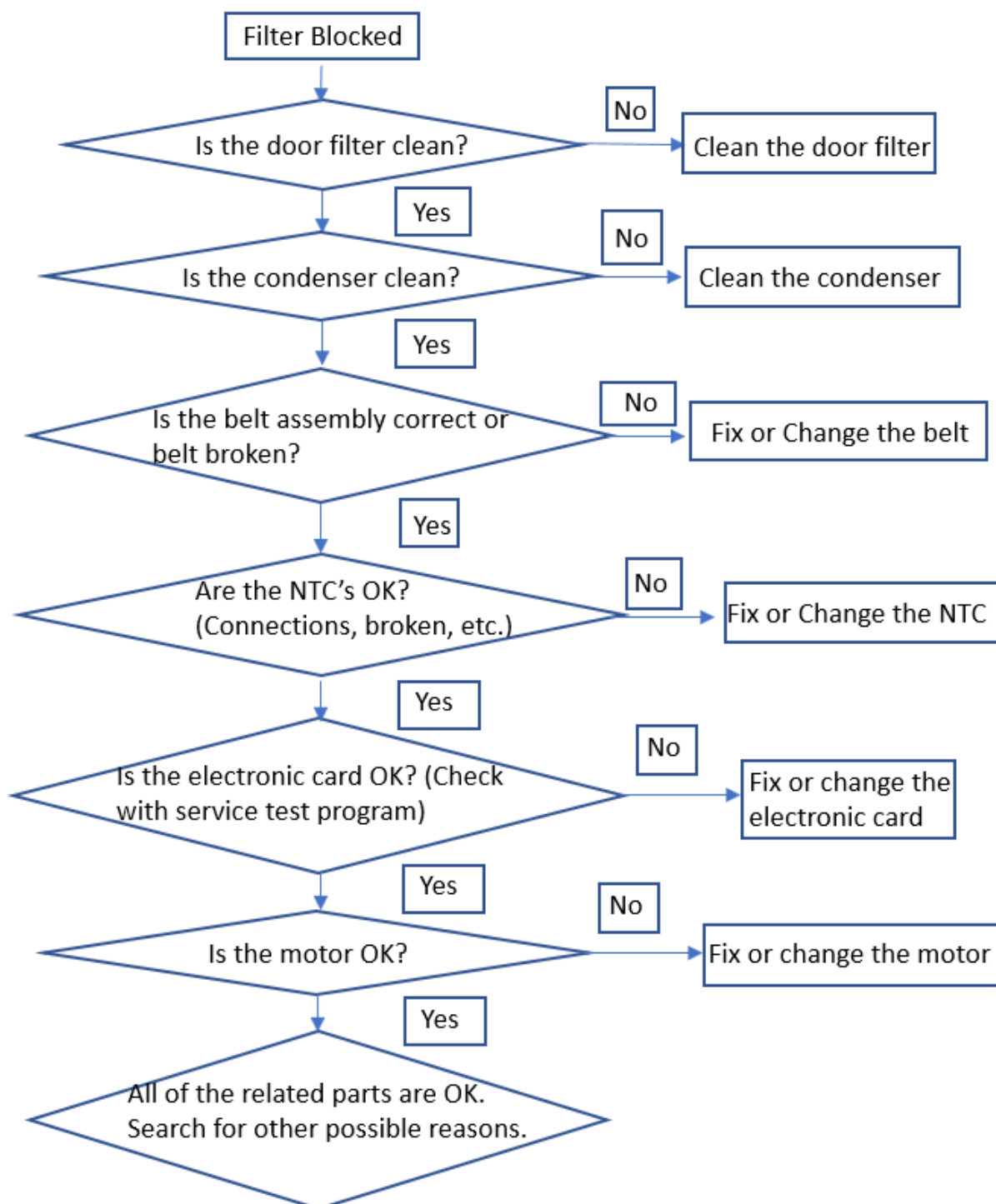
11. Faults Algorithms:

11.1 Faults Algorithms for Specific Error Codes:

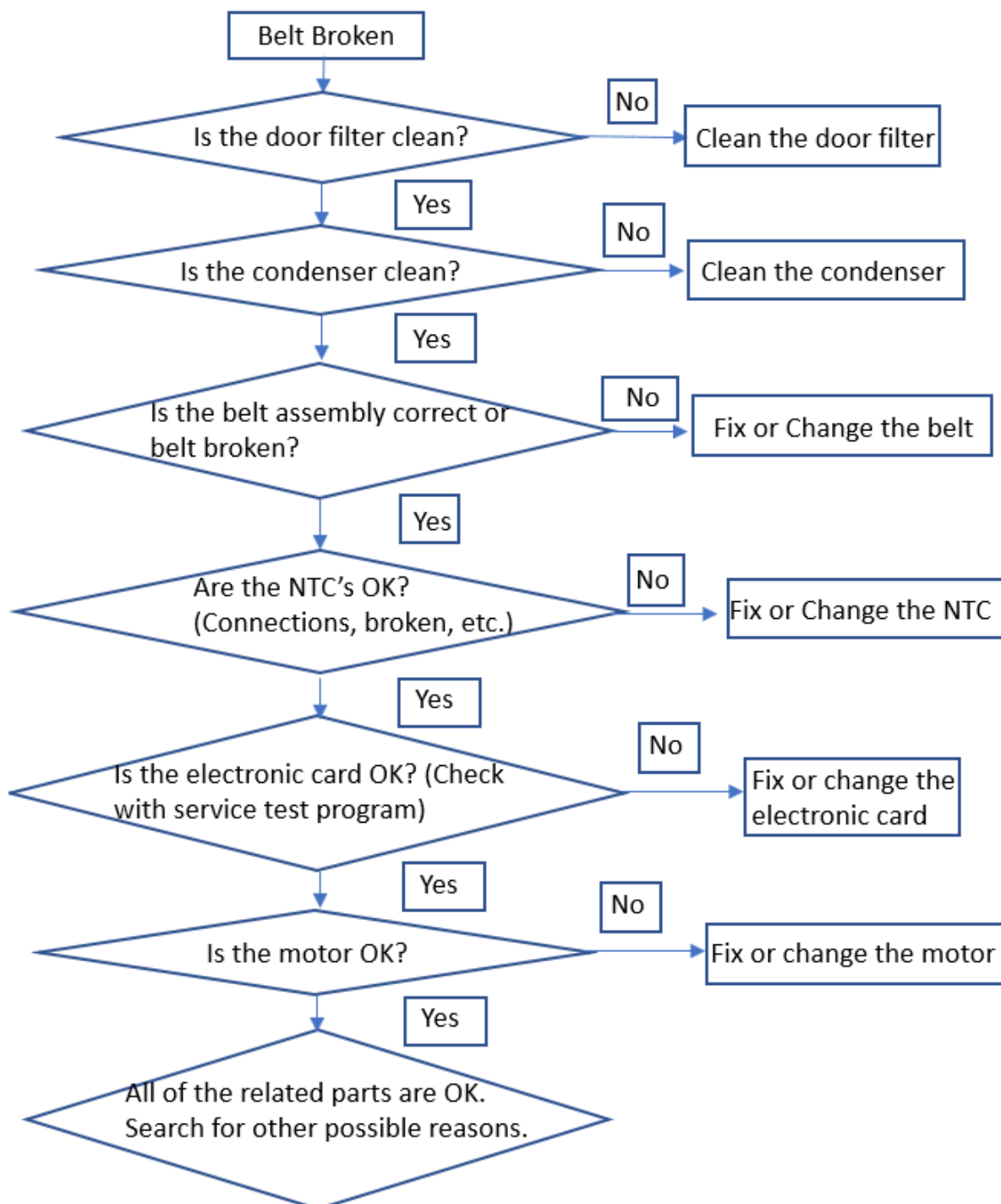
Er01: Water Tank Full



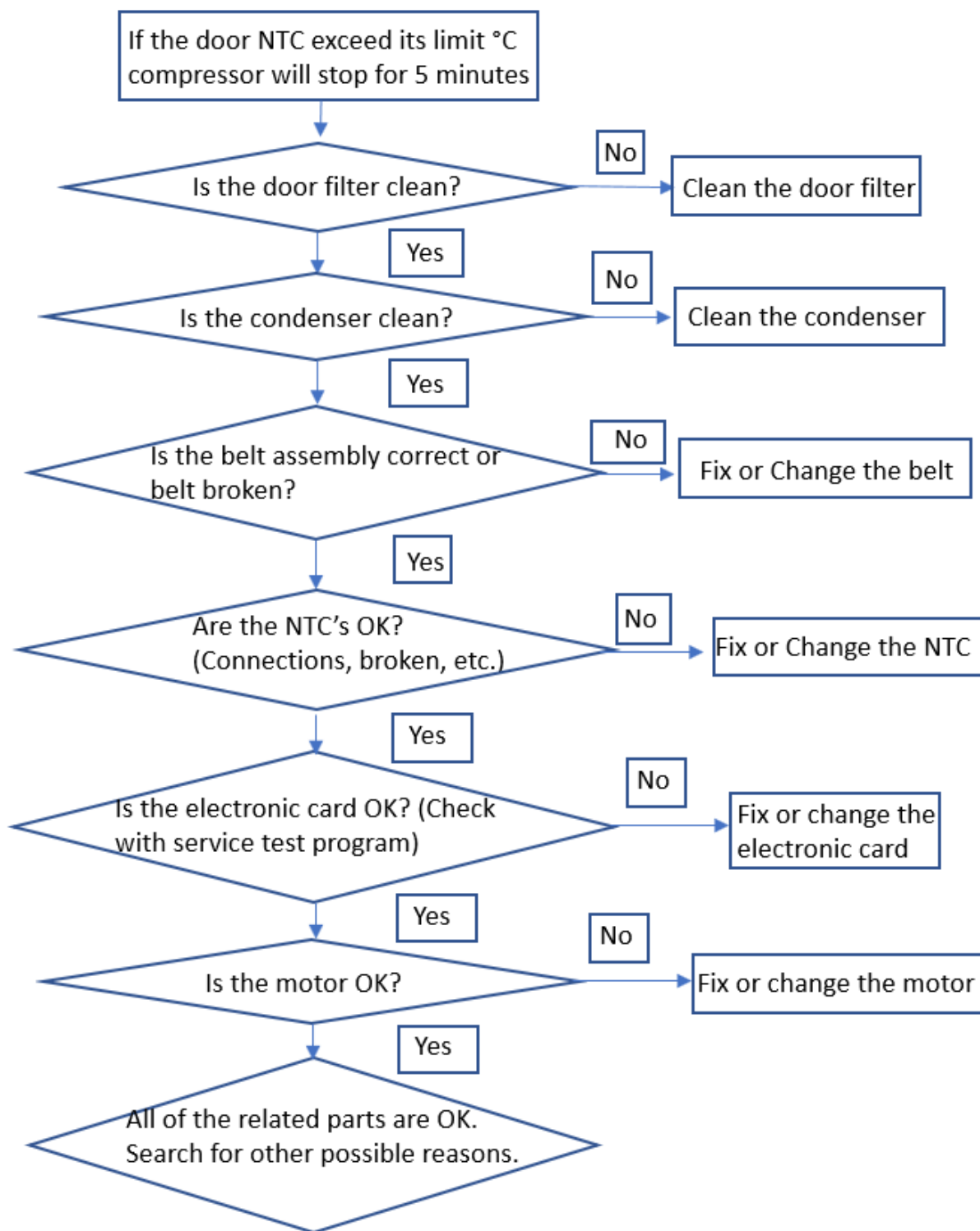
Er 02 : Filter Blocked



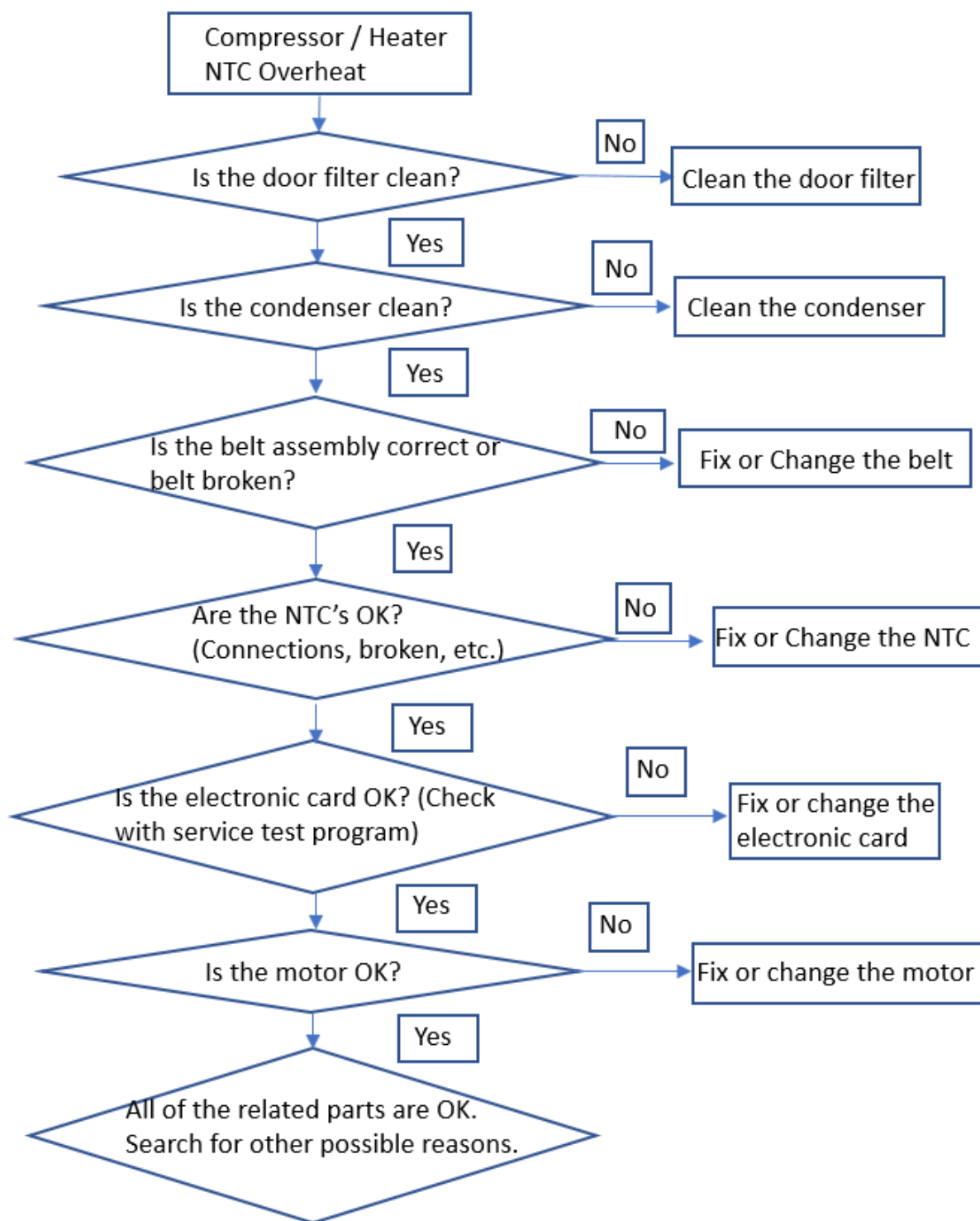
Er 03 : Belt Broken



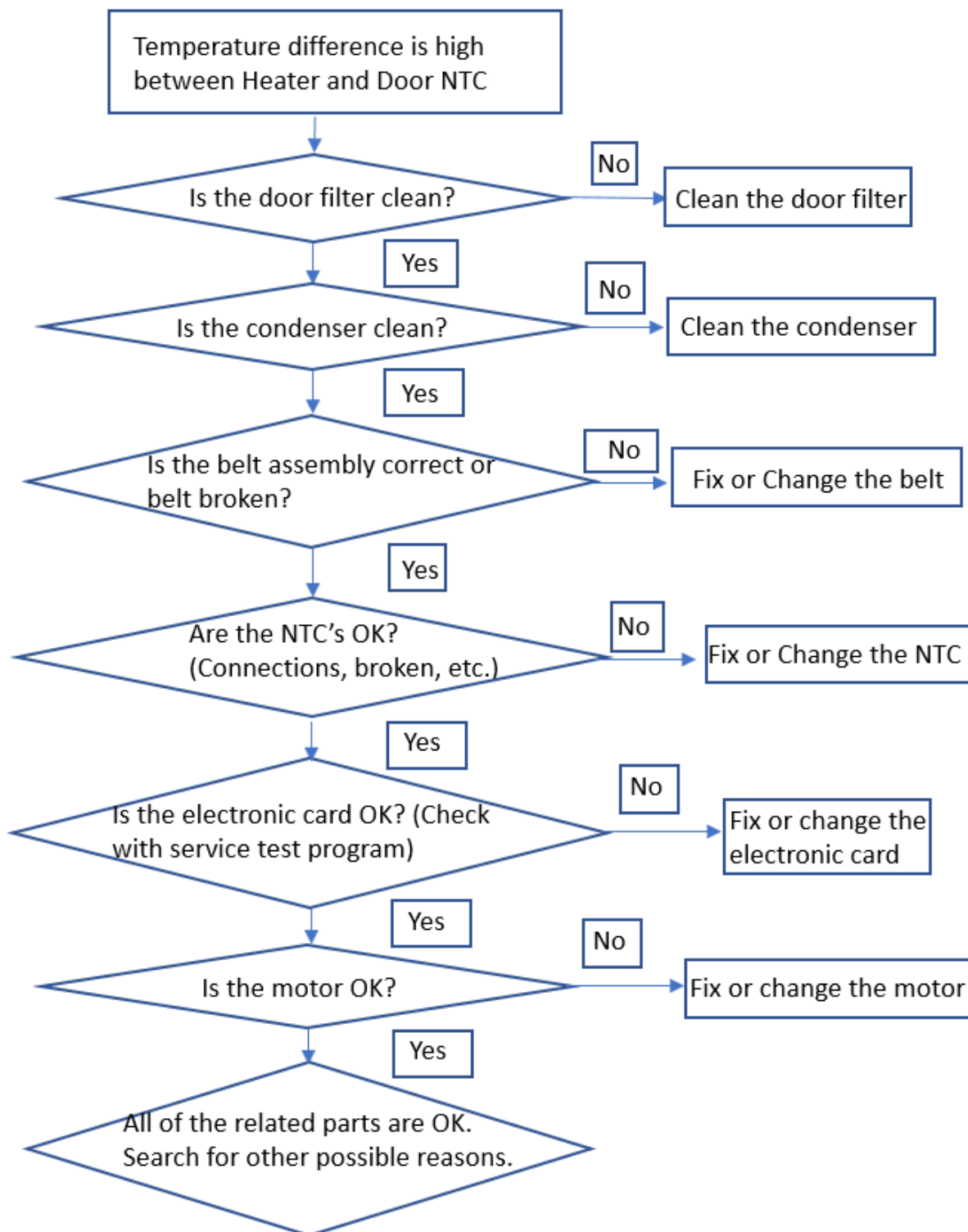
Er 04 : If the door NTC exceed its limit °C compressor will stop for 5 minutes.



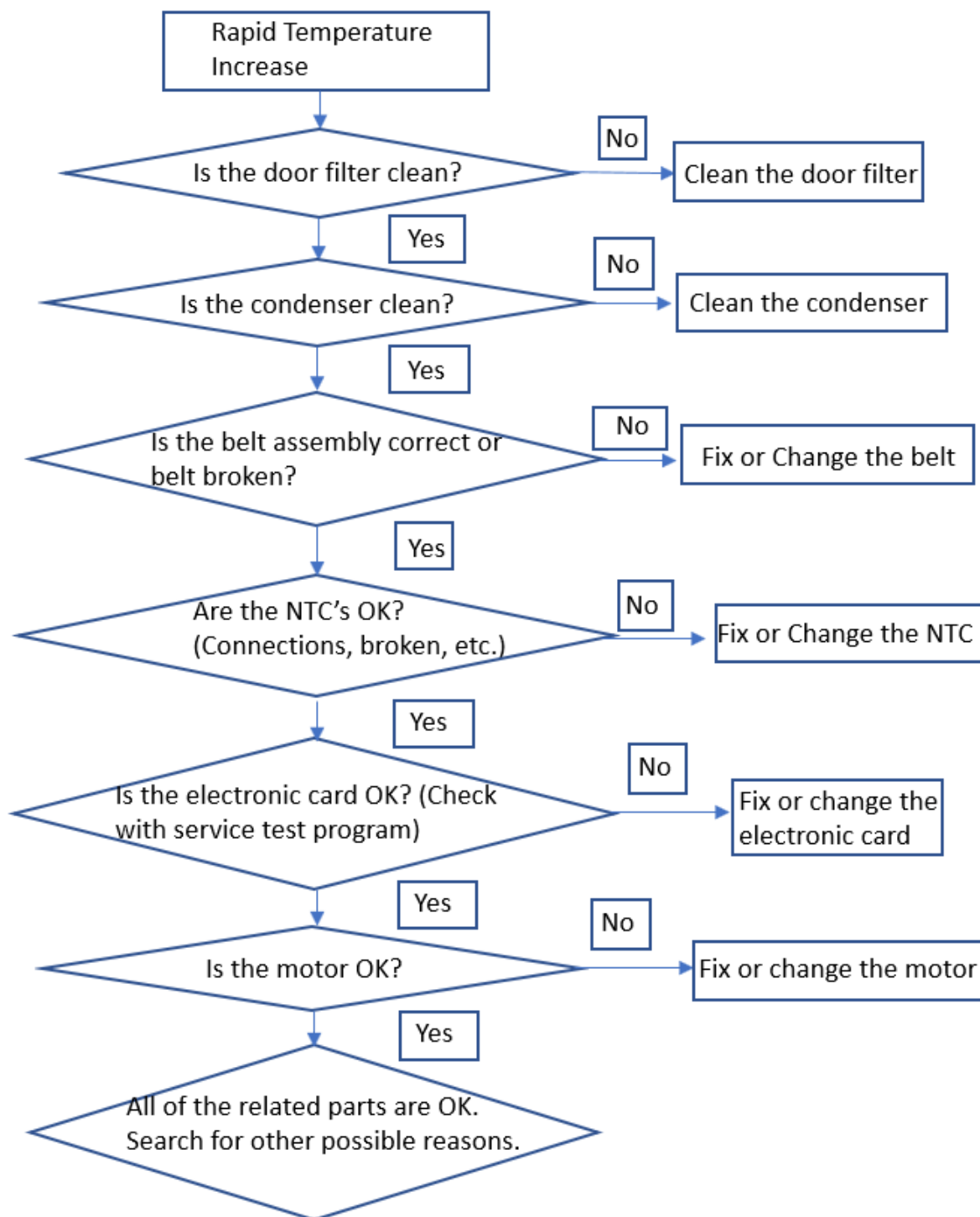
Er 05 : Compressor / Heater NTC Overheat



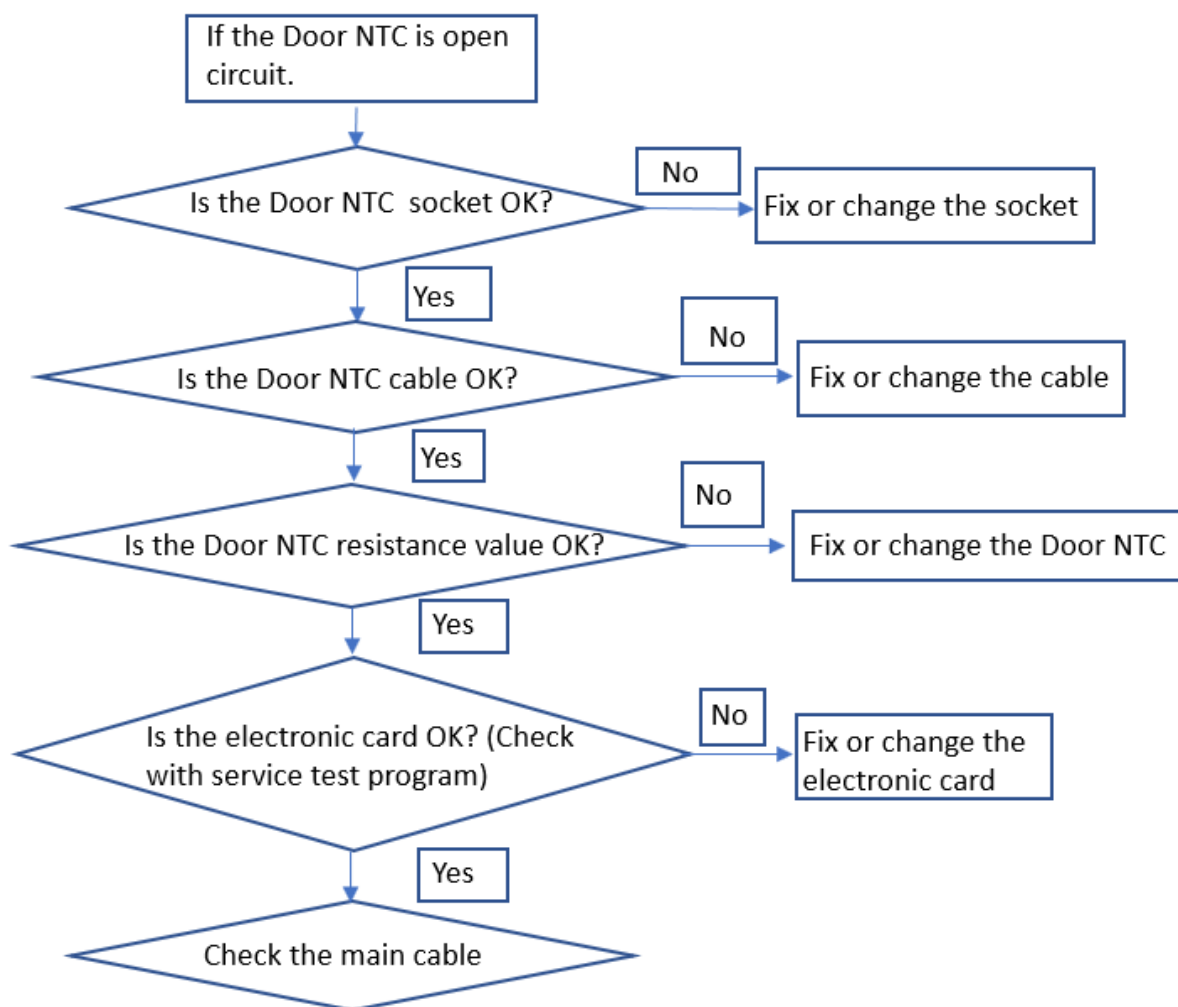
Er 06 : Temperature difference is high between Heater and Door NTC



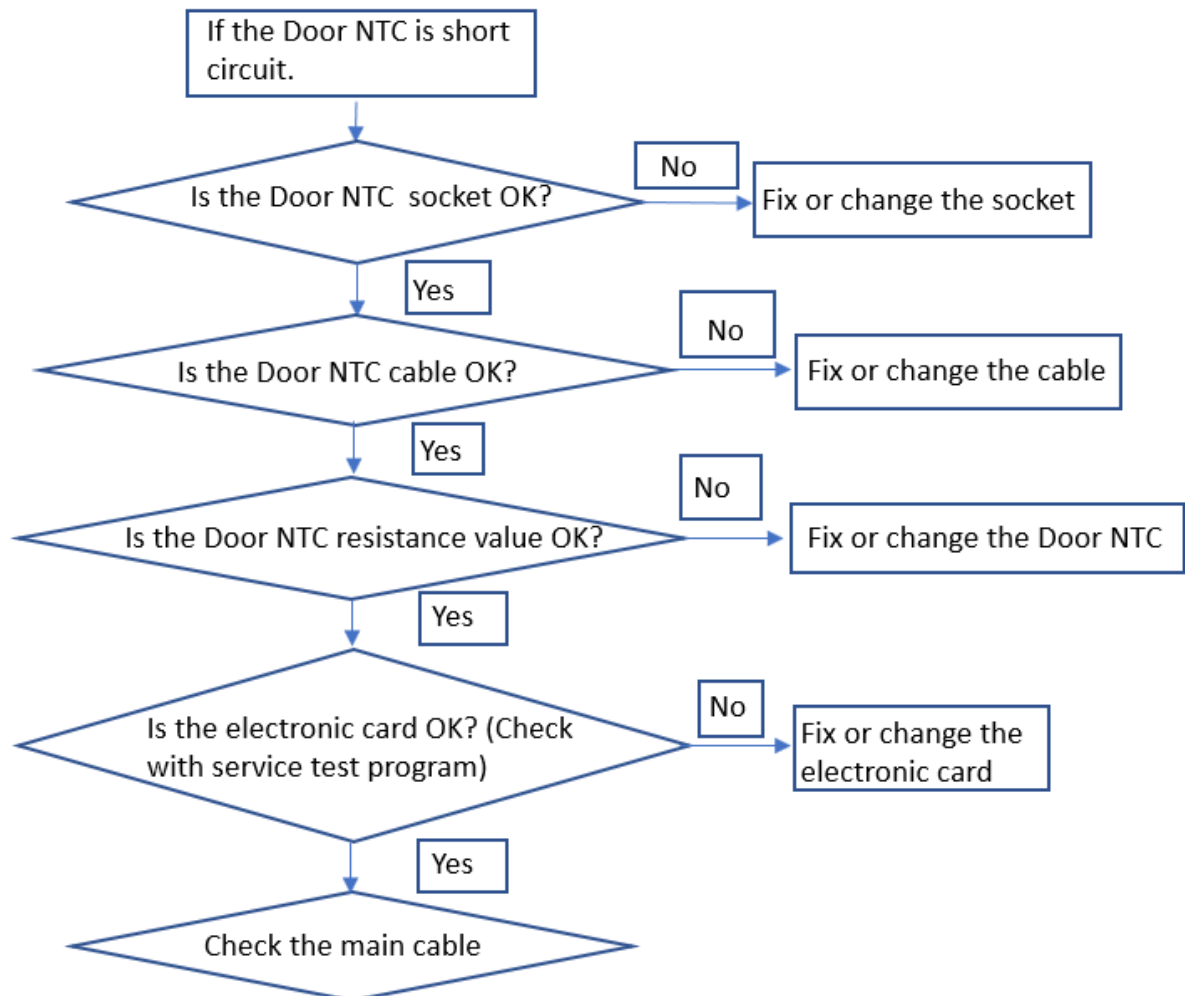
Er 07 : Rapid Temperature Increase



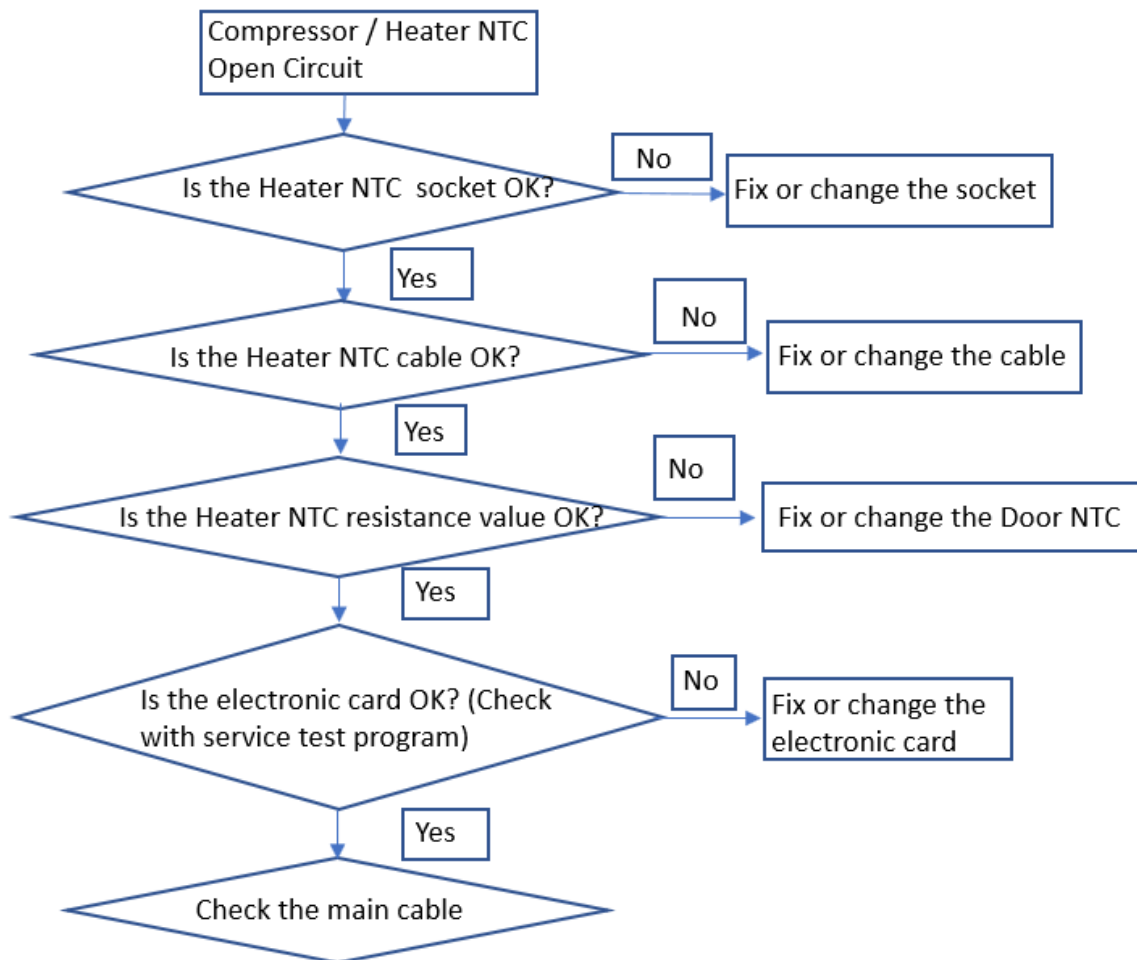
Er 08 : If the Door NTC is open circuit



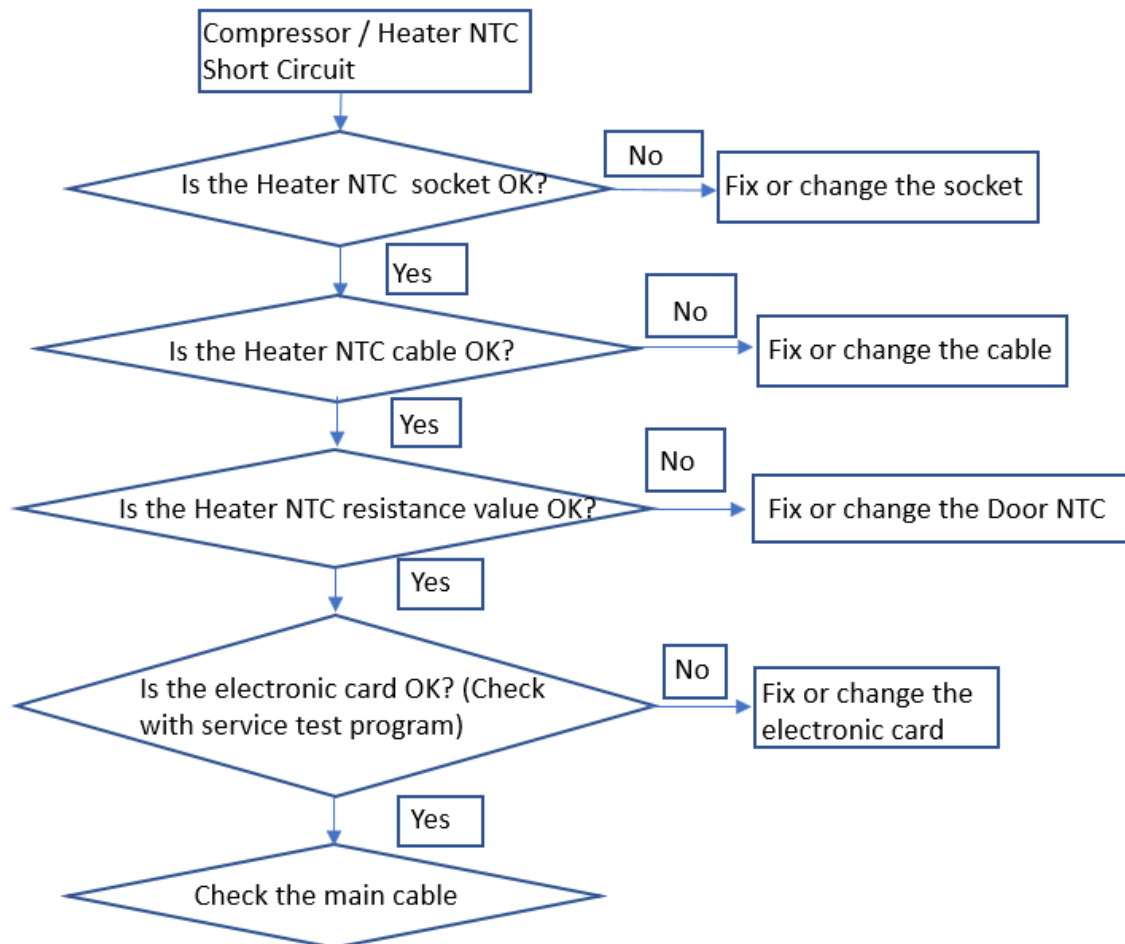
Er 09 : If the Door NTC is short circuit



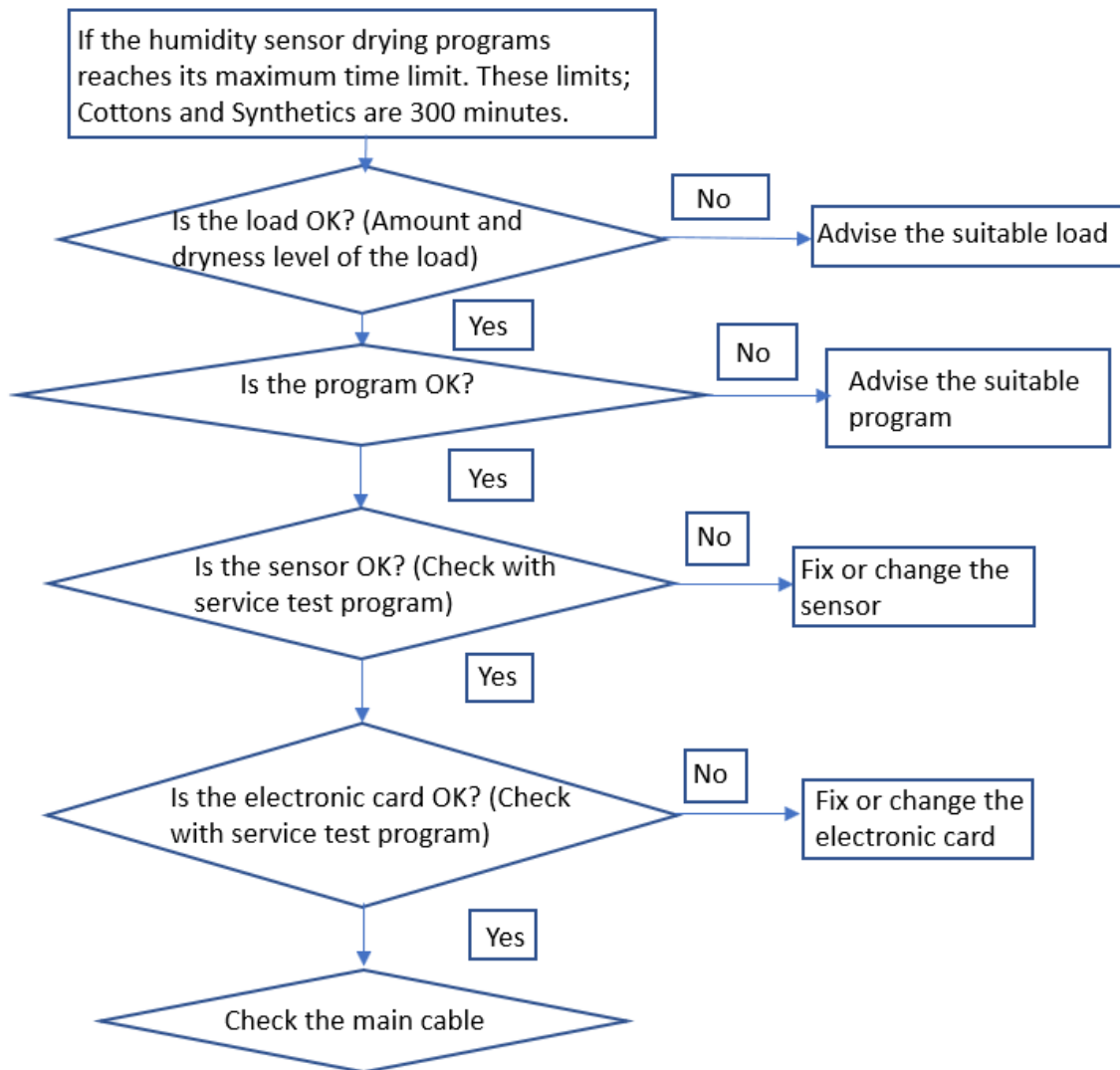
Er 10 : Compressor / Heater NTC Open Circuit



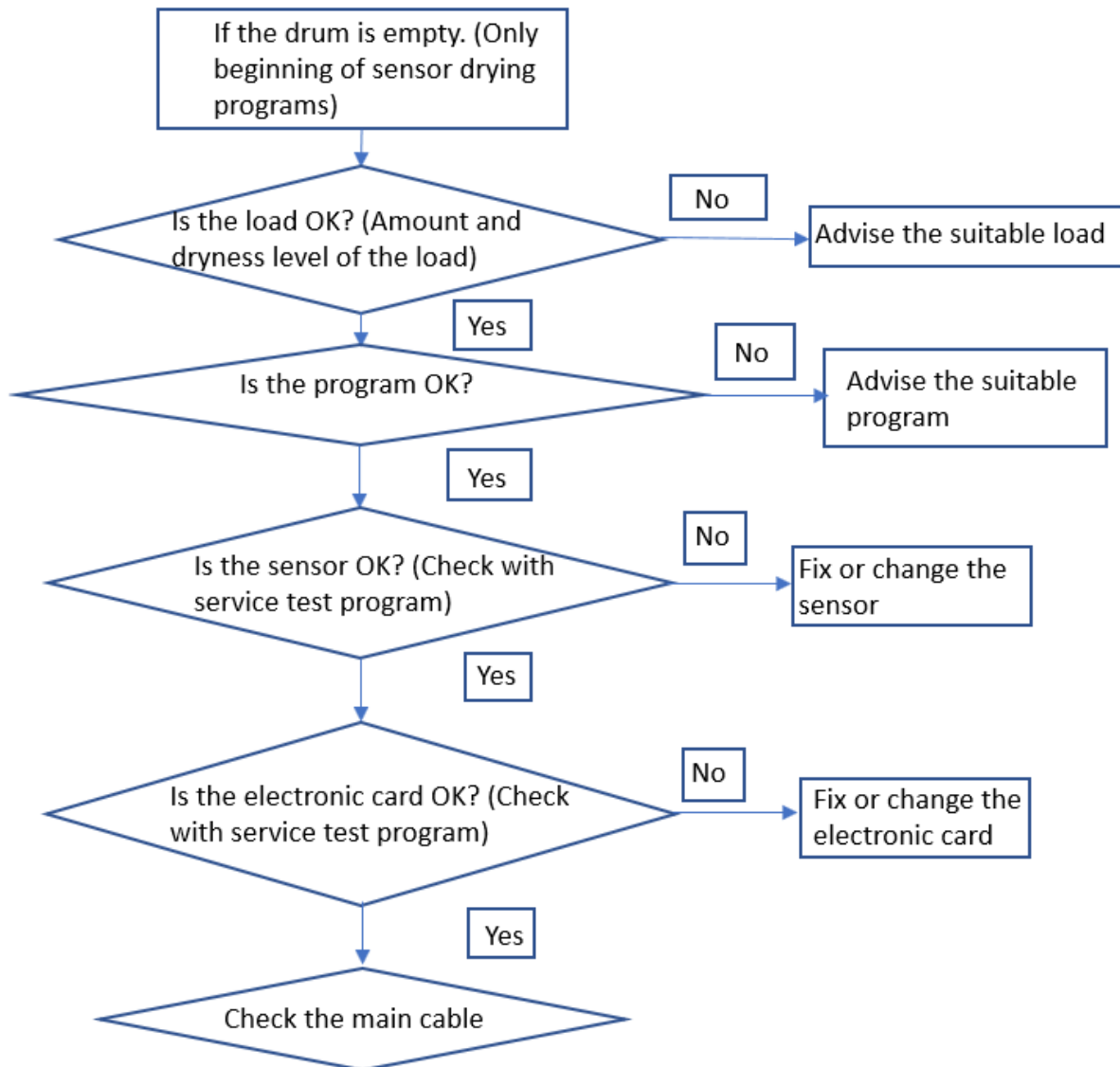
Er 11 : Compressor / Heater NTC Short Circuit



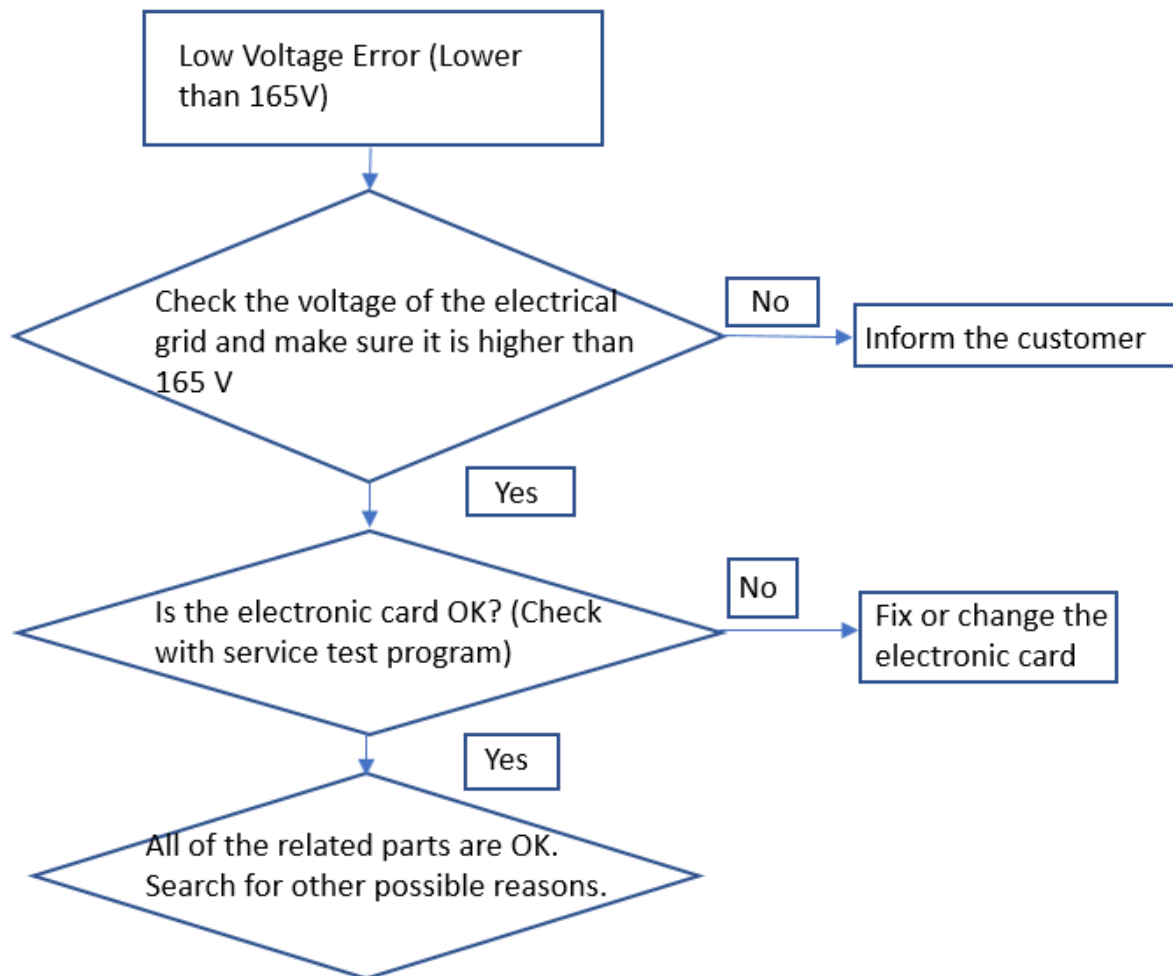
Er 12 : If the humidity sensor drying programs reaches its maximum time limit. These limits; Cottons and Synthetics are 300 minutes.



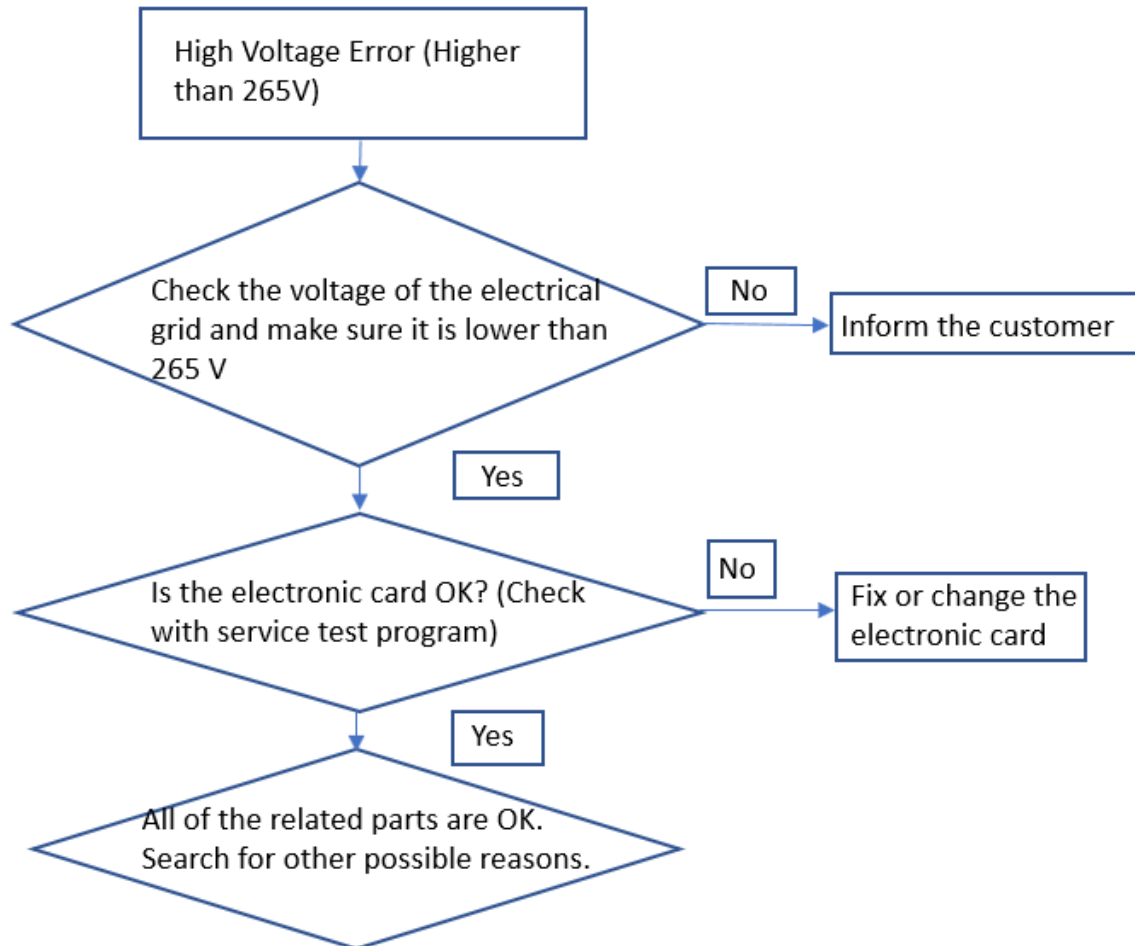
Er 13: If the drum is empty. (Only beginning of sensor drying programs)



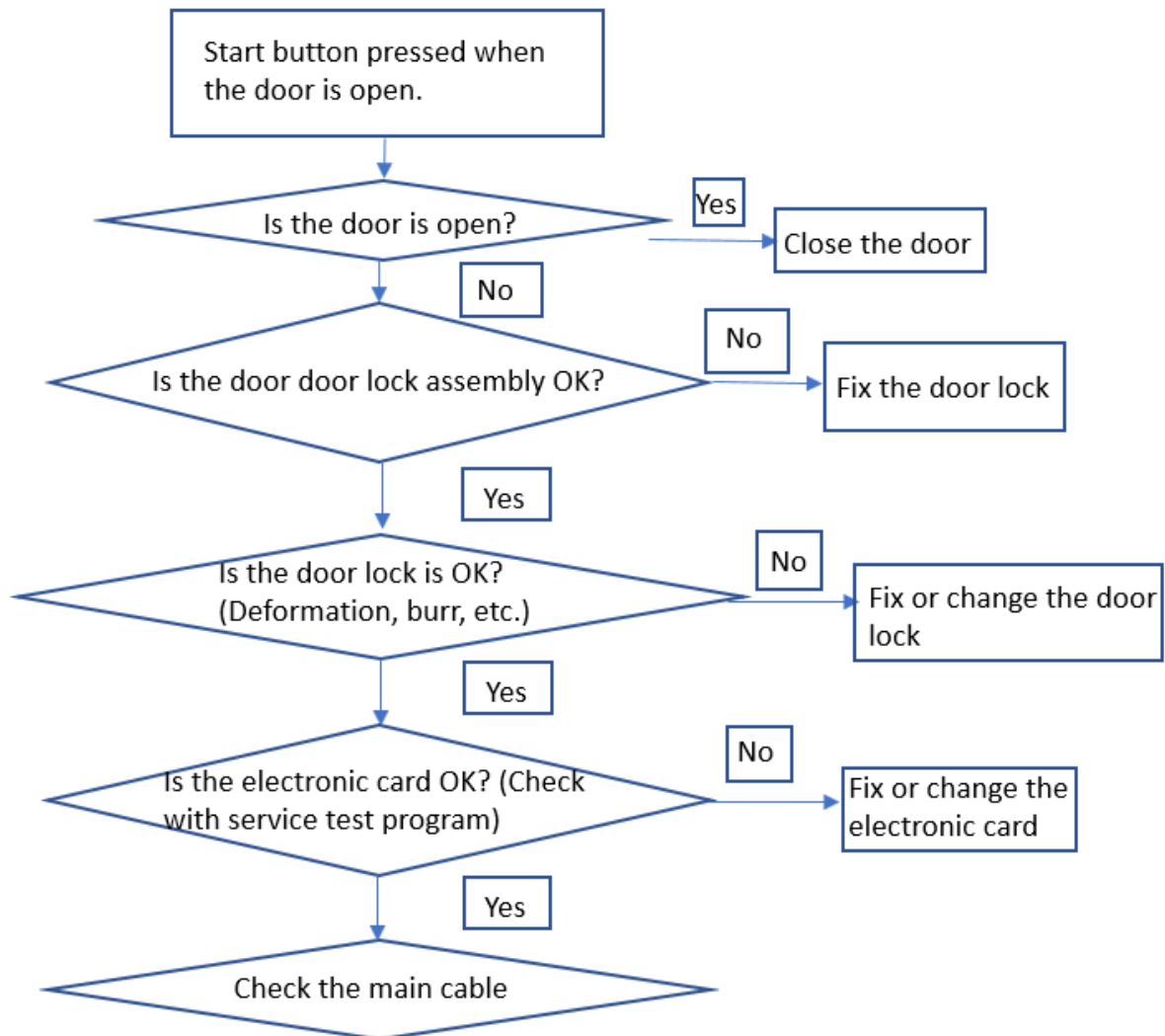
Er 14: Low Voltage Error (Lower than 165V)



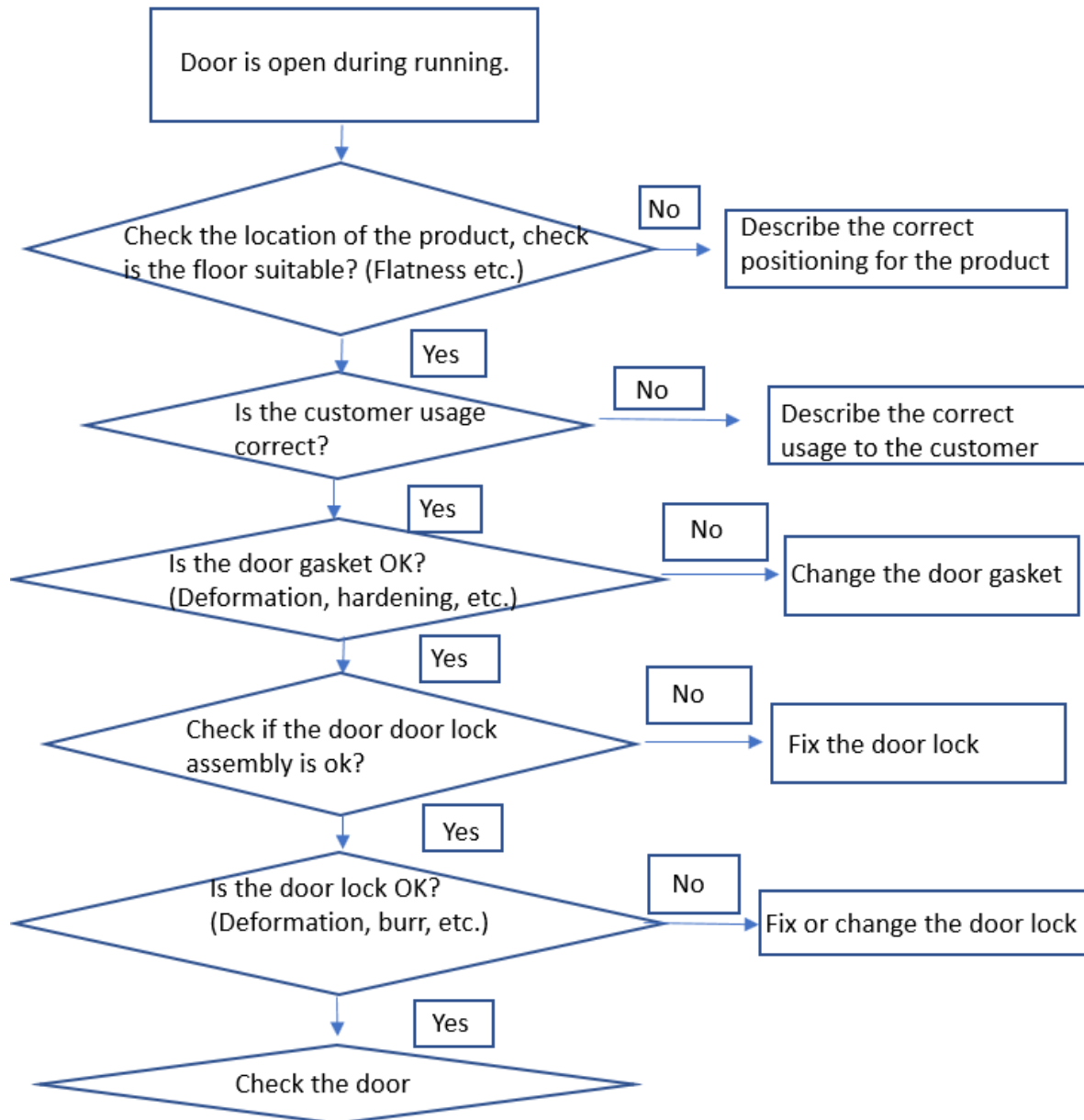
Er 15: High Voltage Error (higher than 265V)



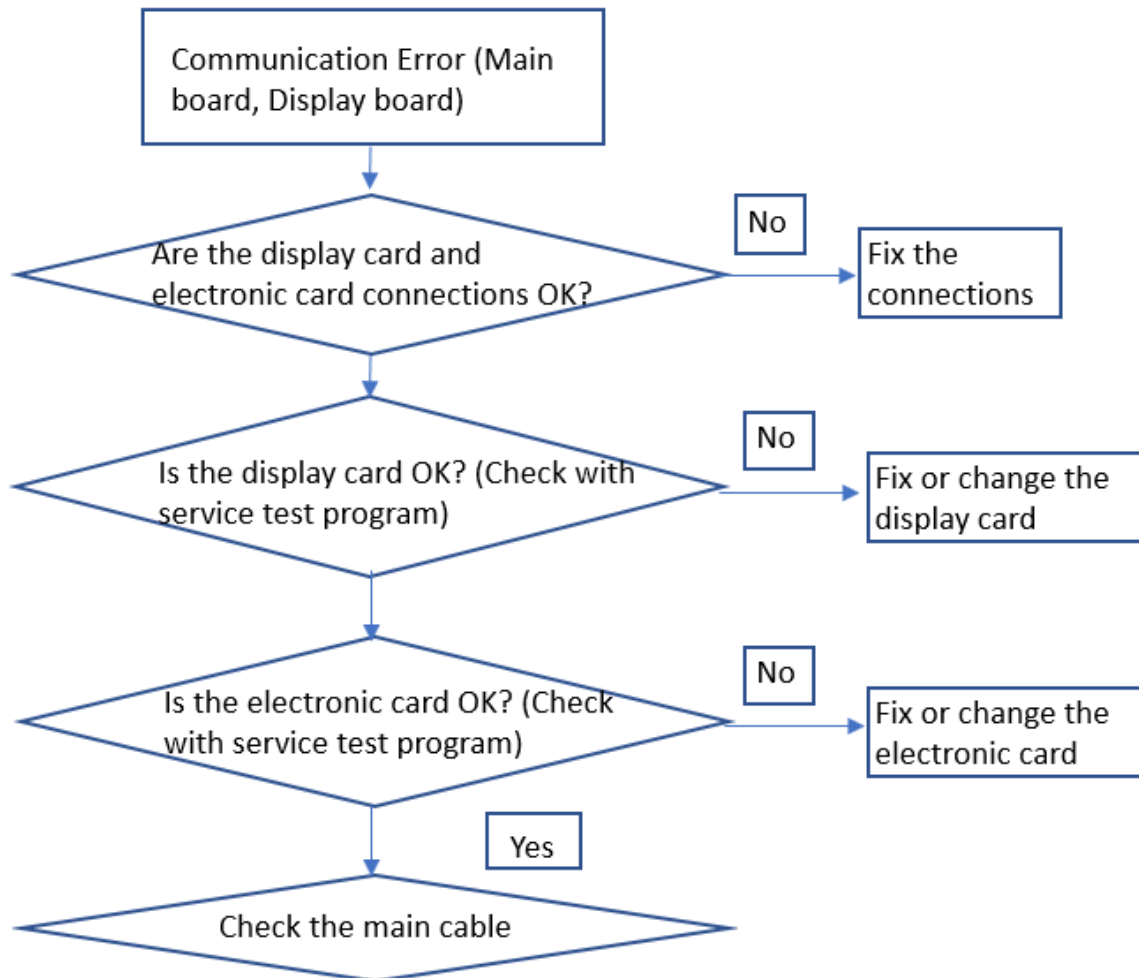
Er 16: Start button pressed when the door is open.



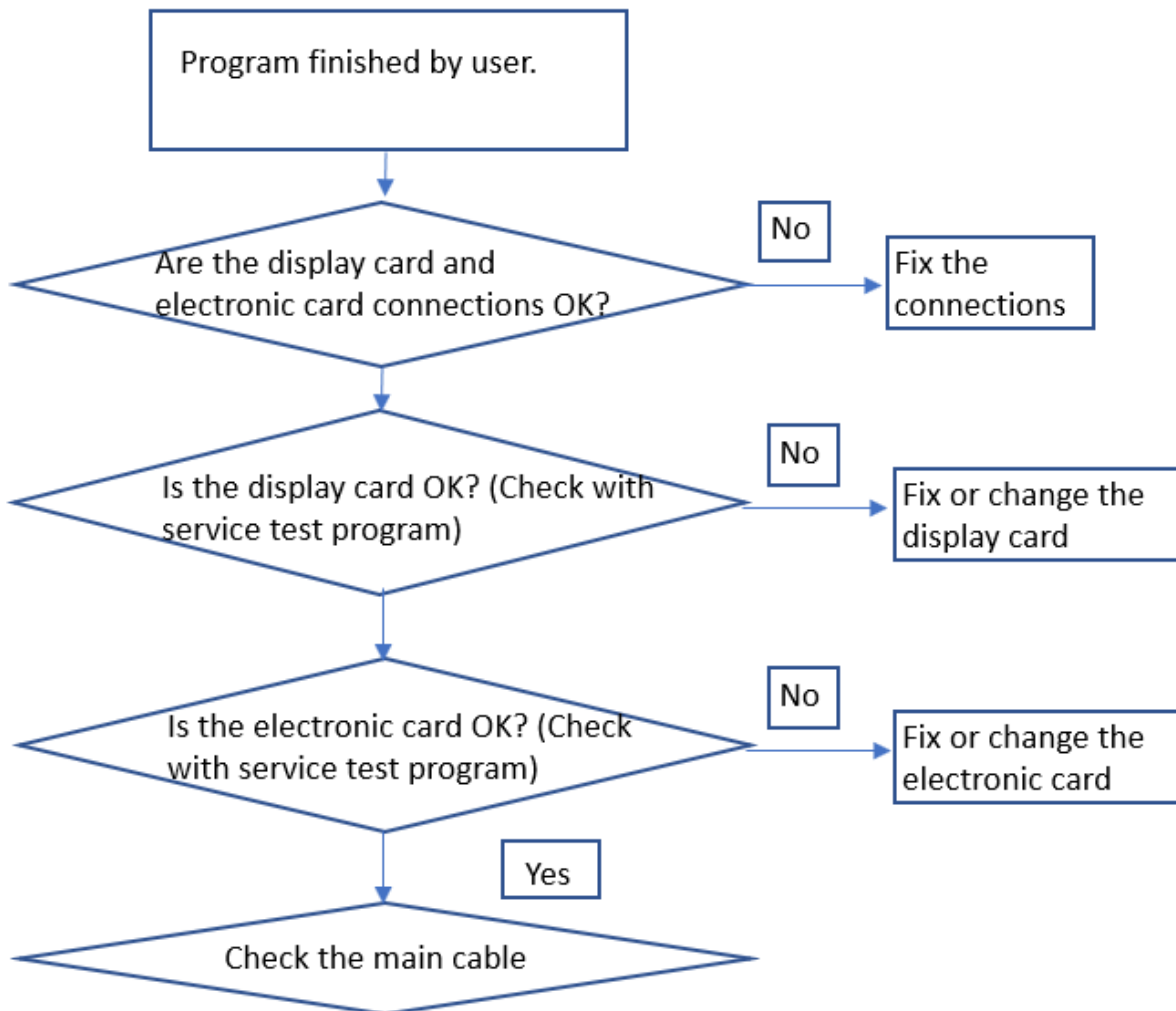
Er 17 : Door is open during running



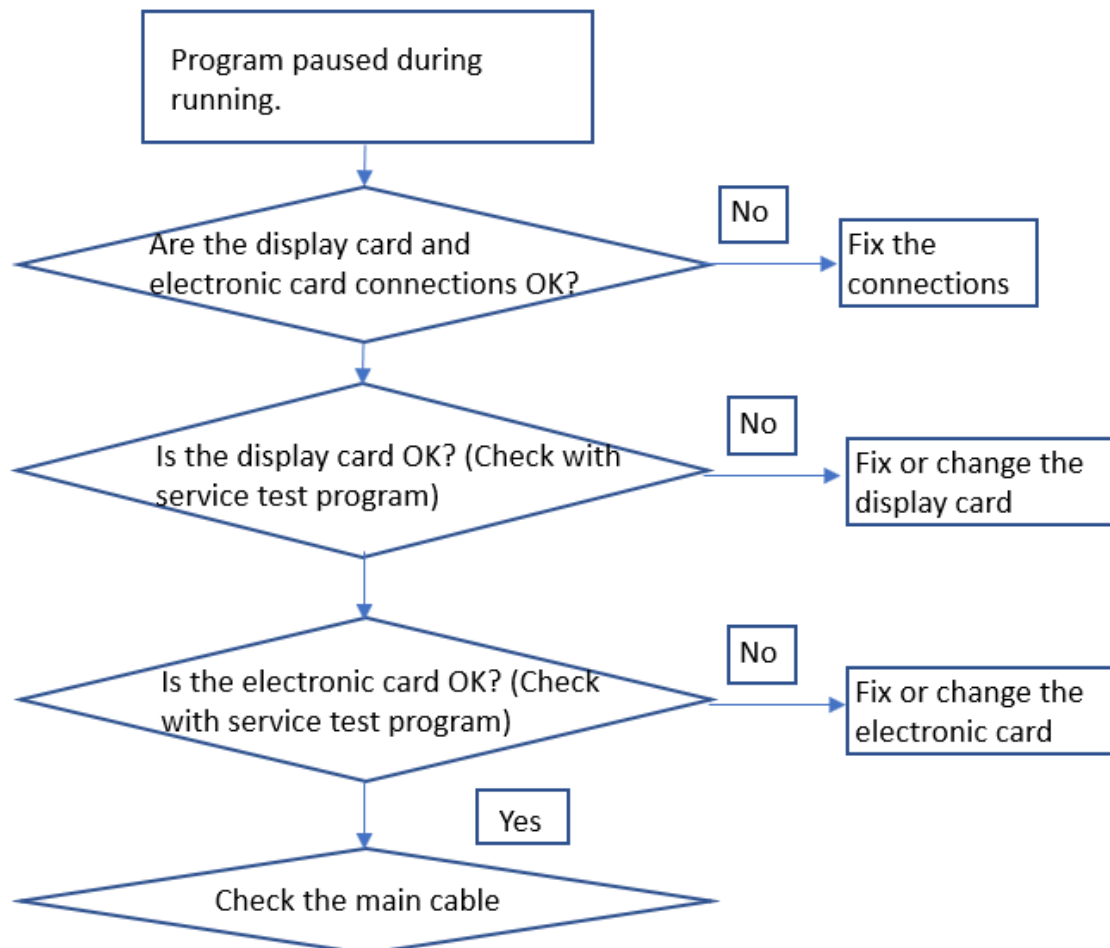
Er 18: Communication Error (Main board, Display board)



Er 19: Program finished by user.

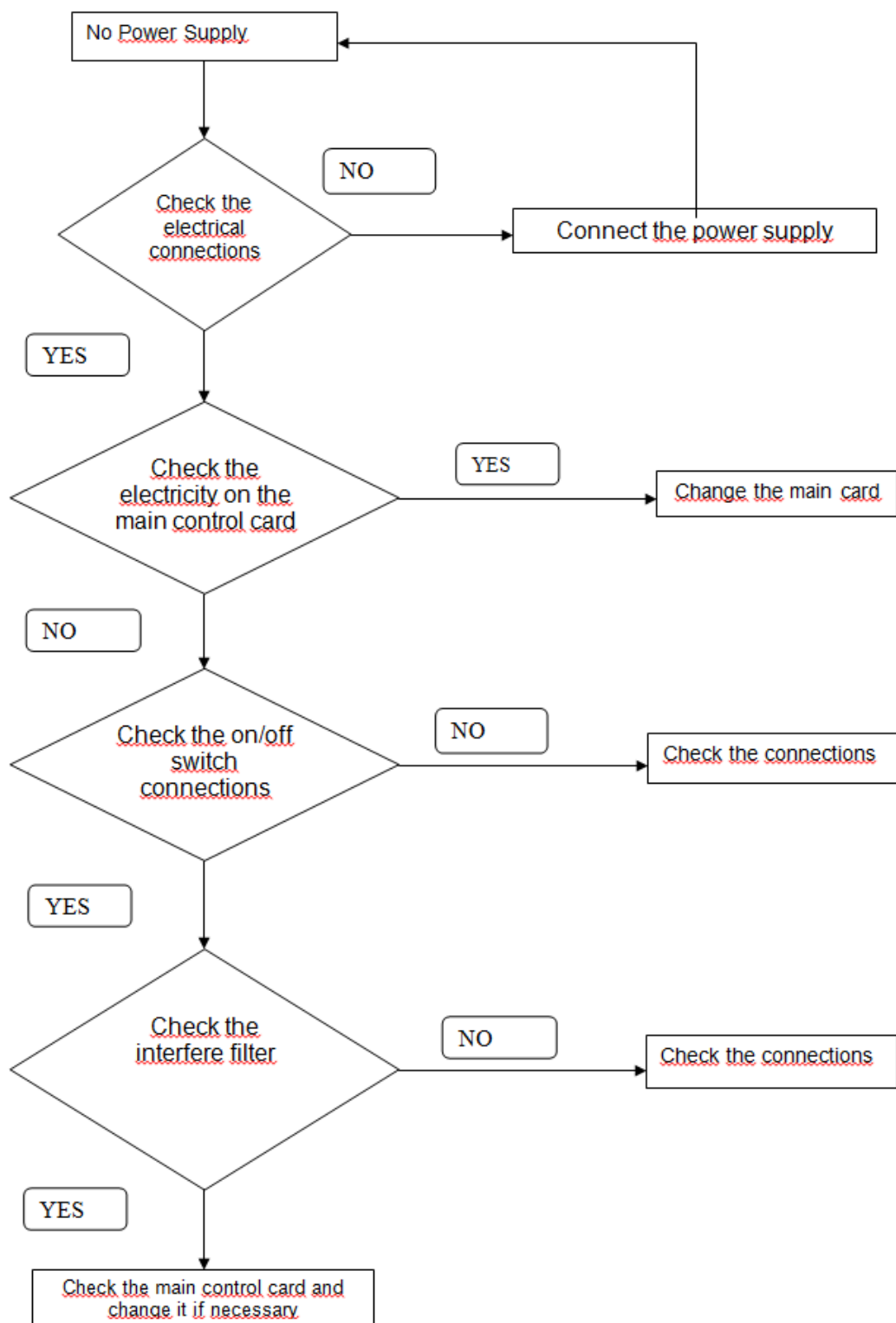


Er 20: Program paused during running.

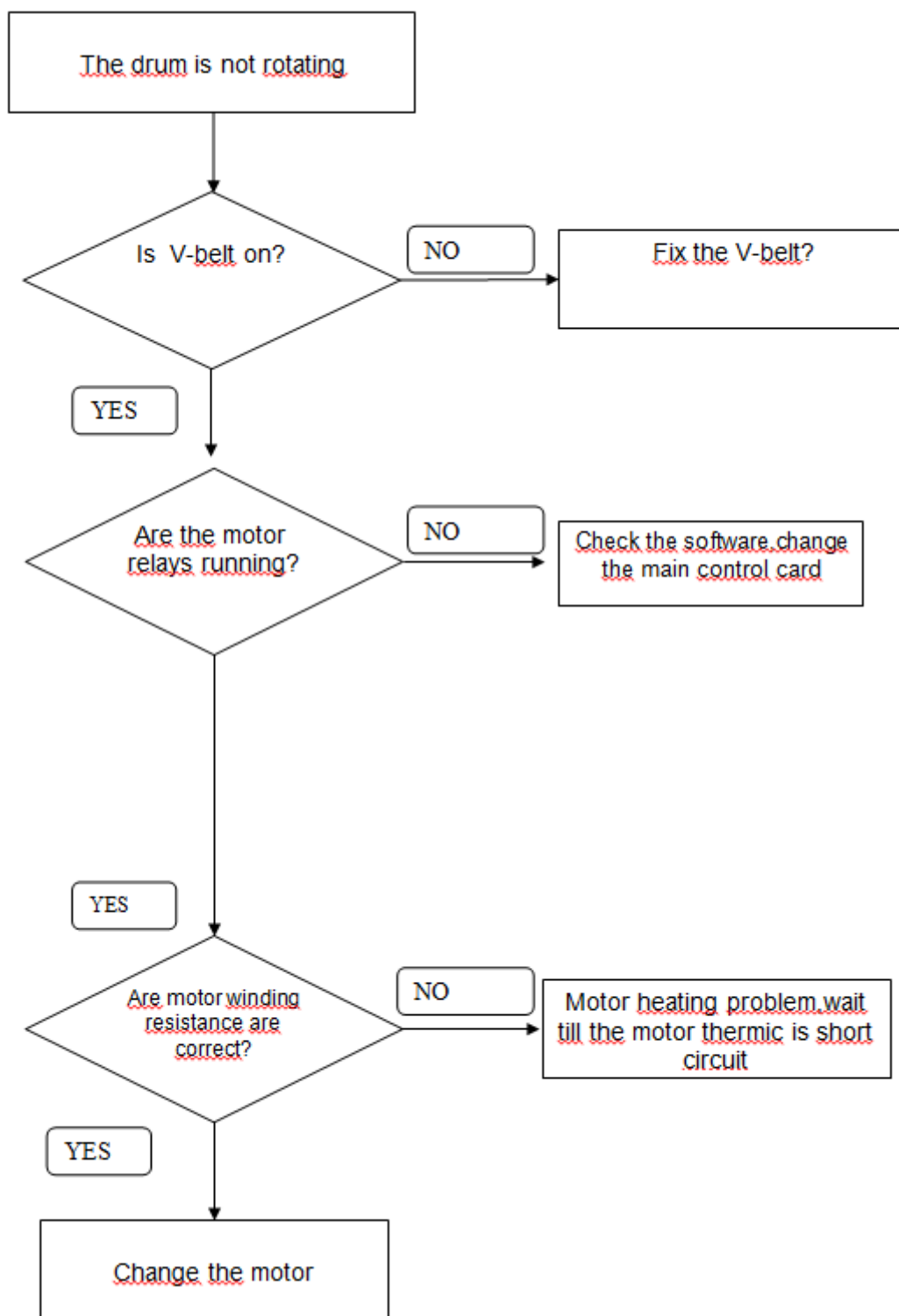


11.2. Faults Algorithms for General Errors:

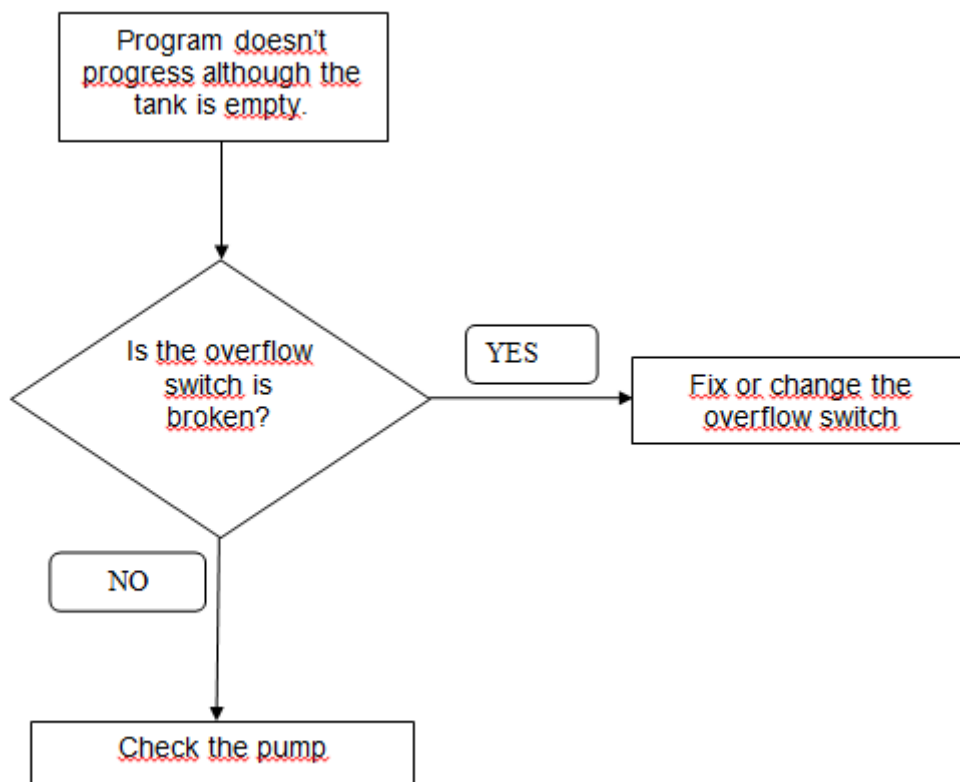
Machine Does Not Work:



Drum is not rotating:



Program does not progress although the tank is empty:



12. Wiring and Cable Schematics:

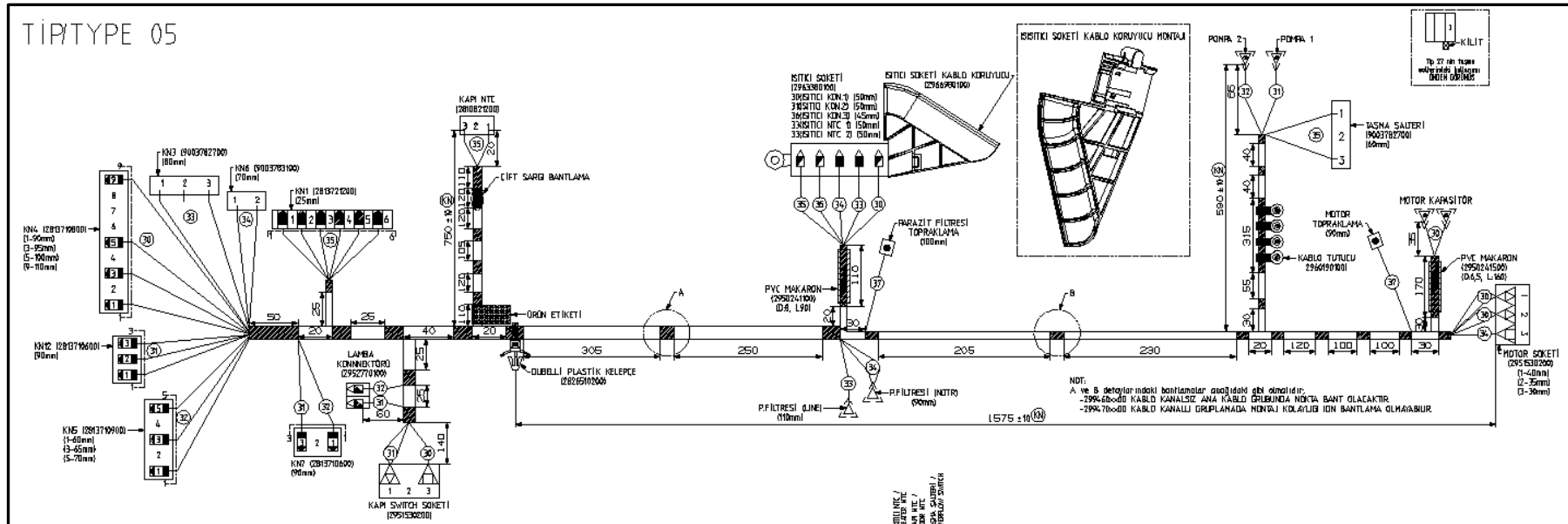


Figure 12-1: Cable Schematics (2994600500) – Beko 2013 Good+ CNDU Models Reversible Glass Door 60 cm

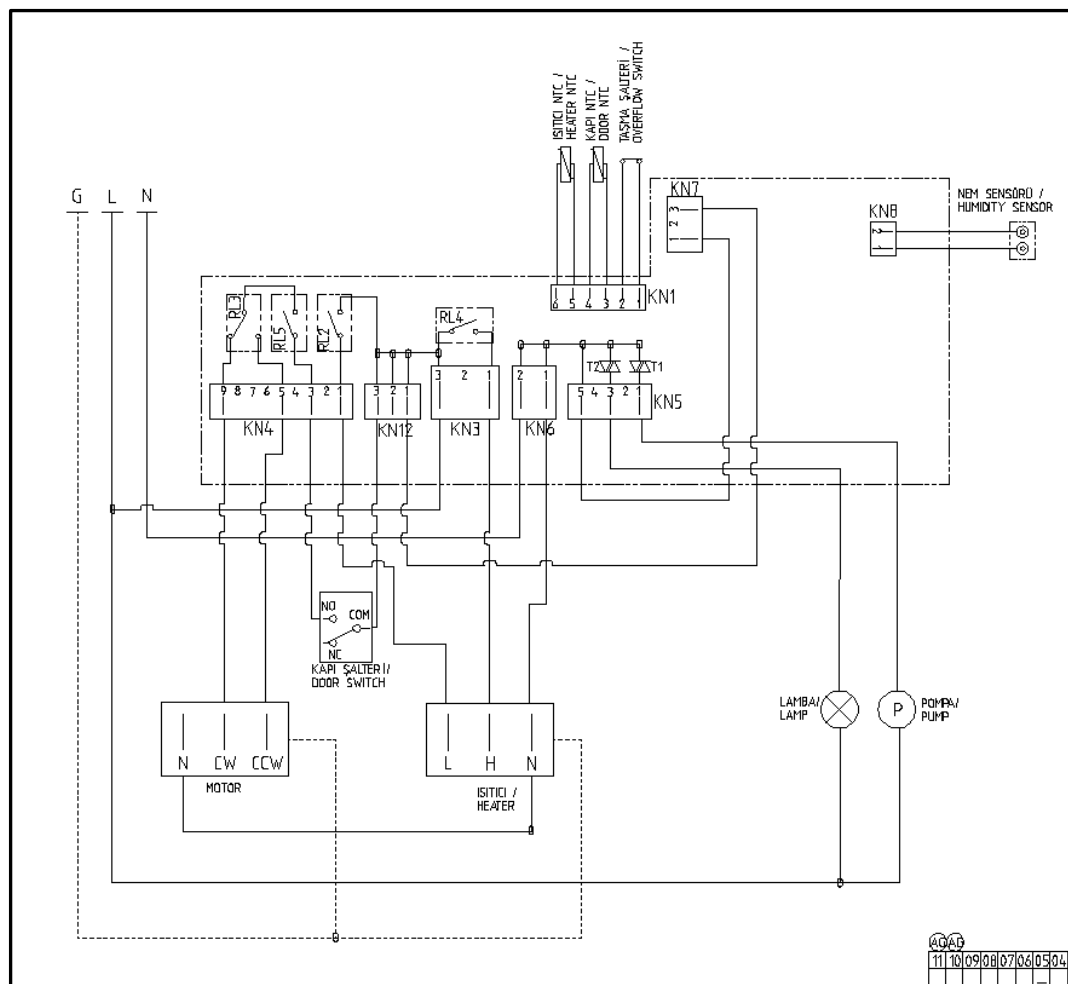


Figure 12-2: Wiring Schematics (2994600500) – Beko 2013 Good+ CNDU Models Reversible Glass Door 60 cm

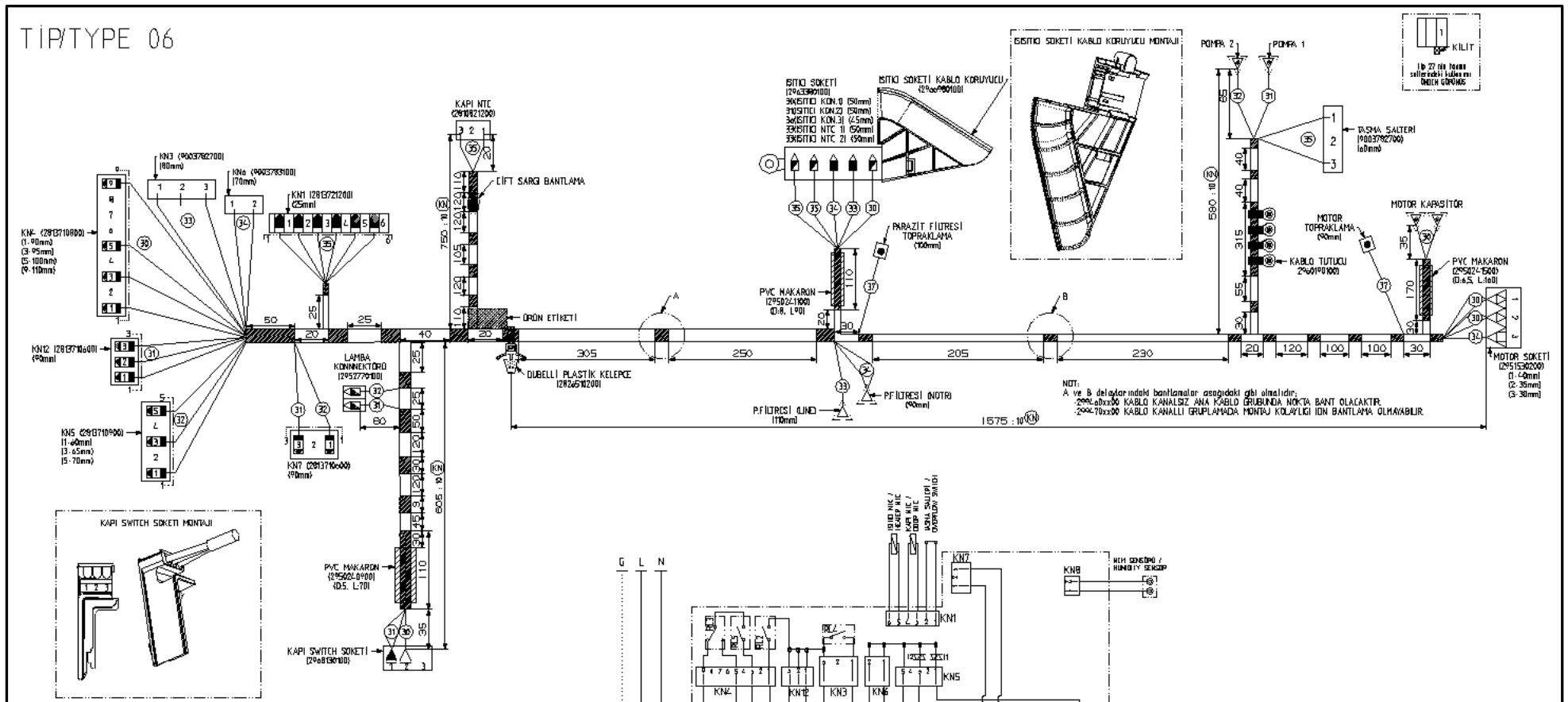


Figure 12-3: Cable Schematics (2994600600) – Beko 2013 Good+ CNDU Models Opaque Door 60 cm

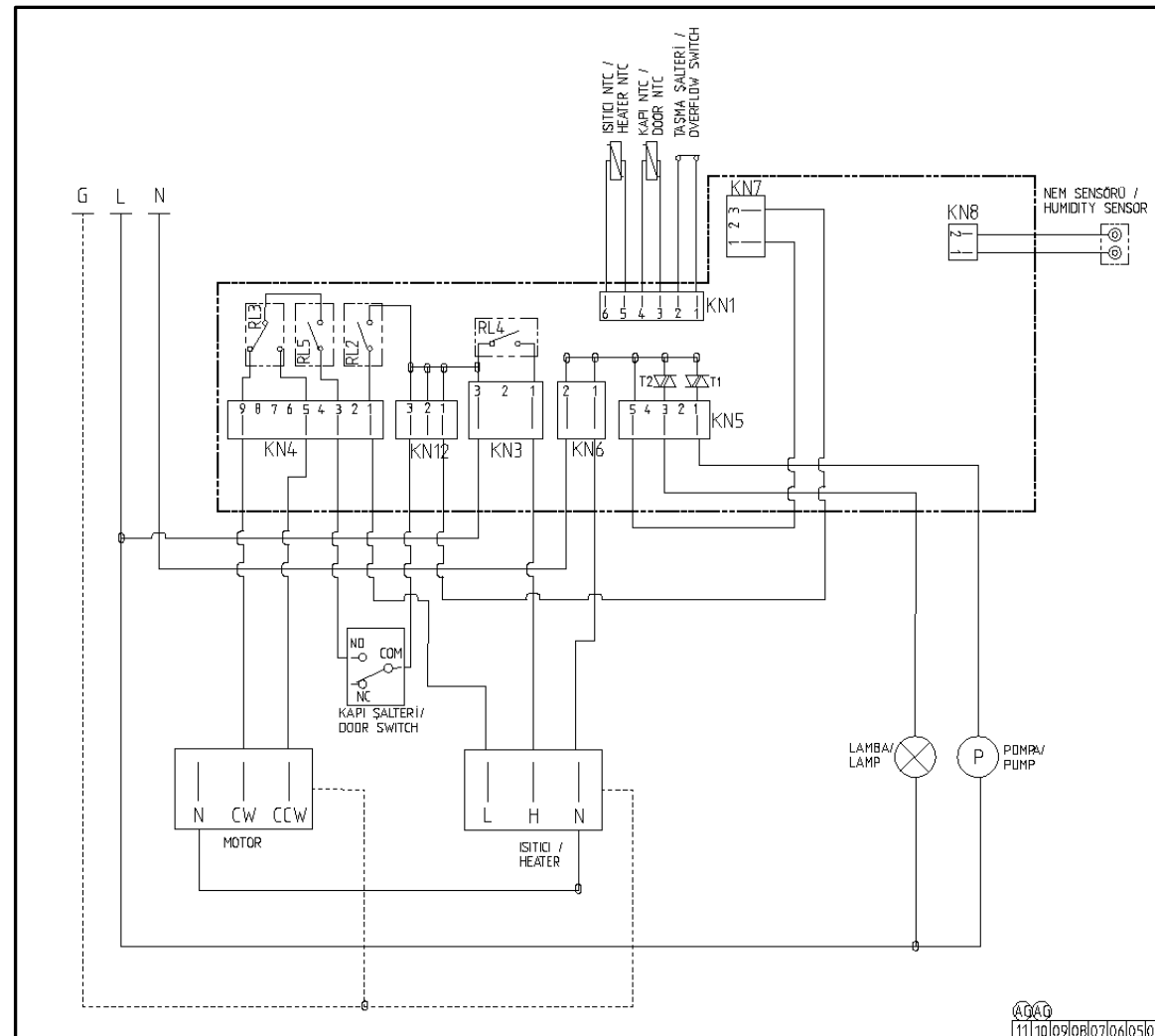


Figure 12-4: Wiring Schematics (2994600600) – Beko 2013 Good+ CNDU Models Opaque Door 60 cm

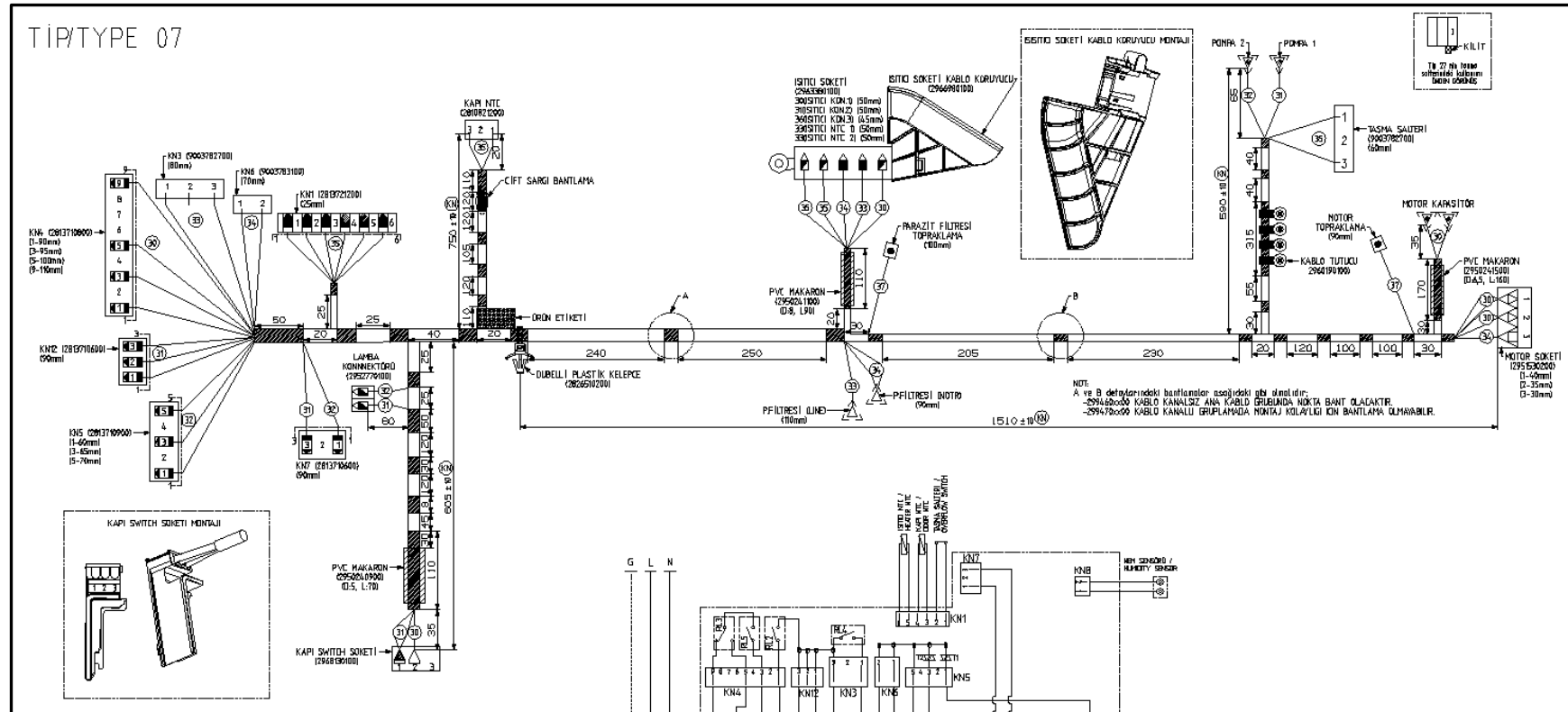


Figure 12-5: Cable Schematics (2994600700) – Beko 2013 Good+ CNDU Models Opaque Door 54 cm

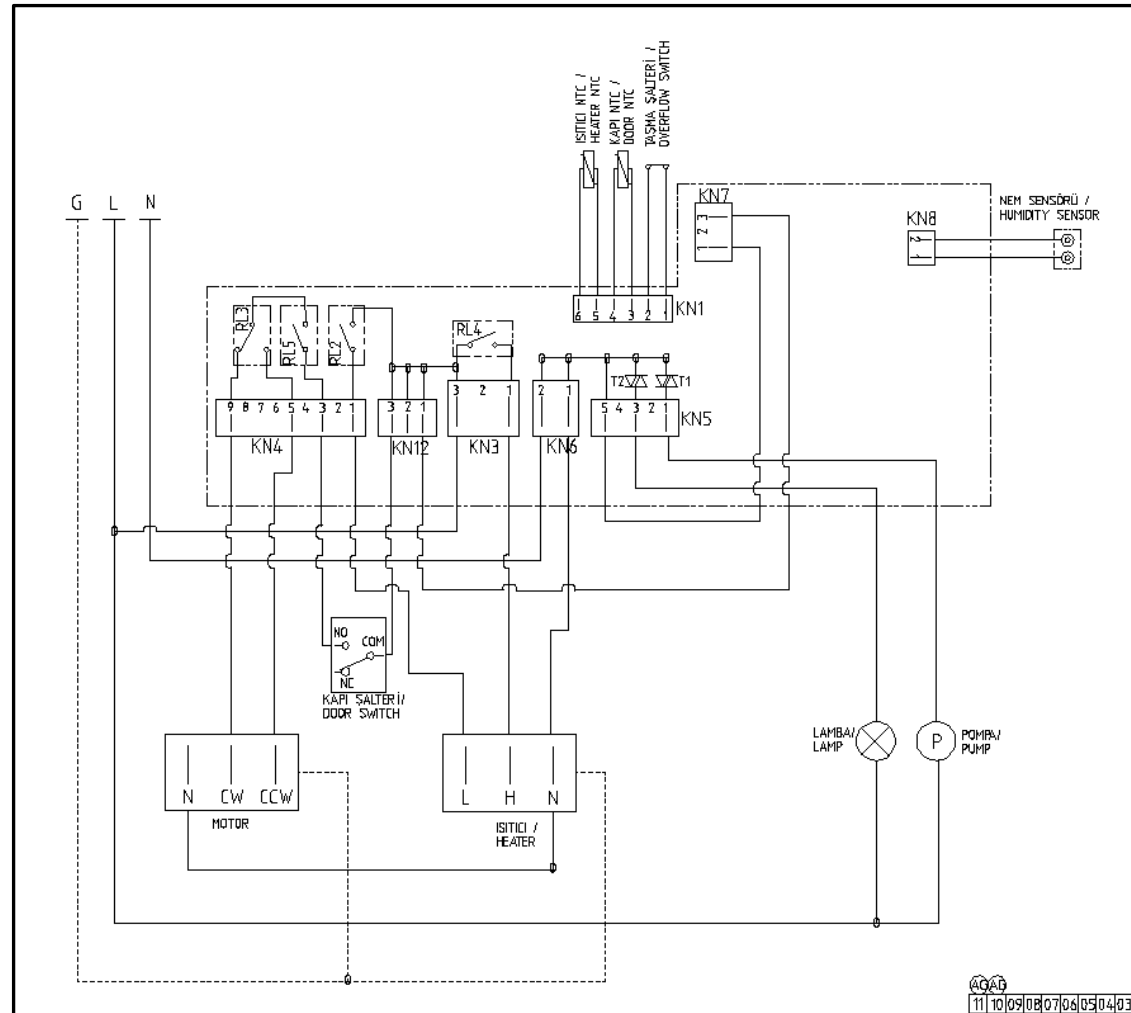


Figure 12-6: Wiring Schematics (2994600700) – Beko 2013 Good+ CNDU Models Opaque Door 54 cm

13. Dismounting Details:



Figure 13.1. General View

13.2. Top Plate:

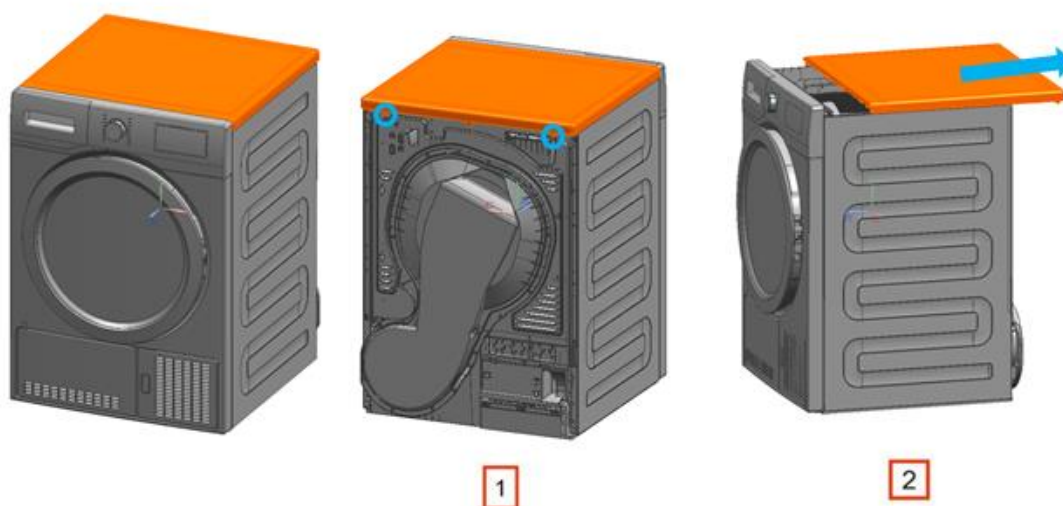
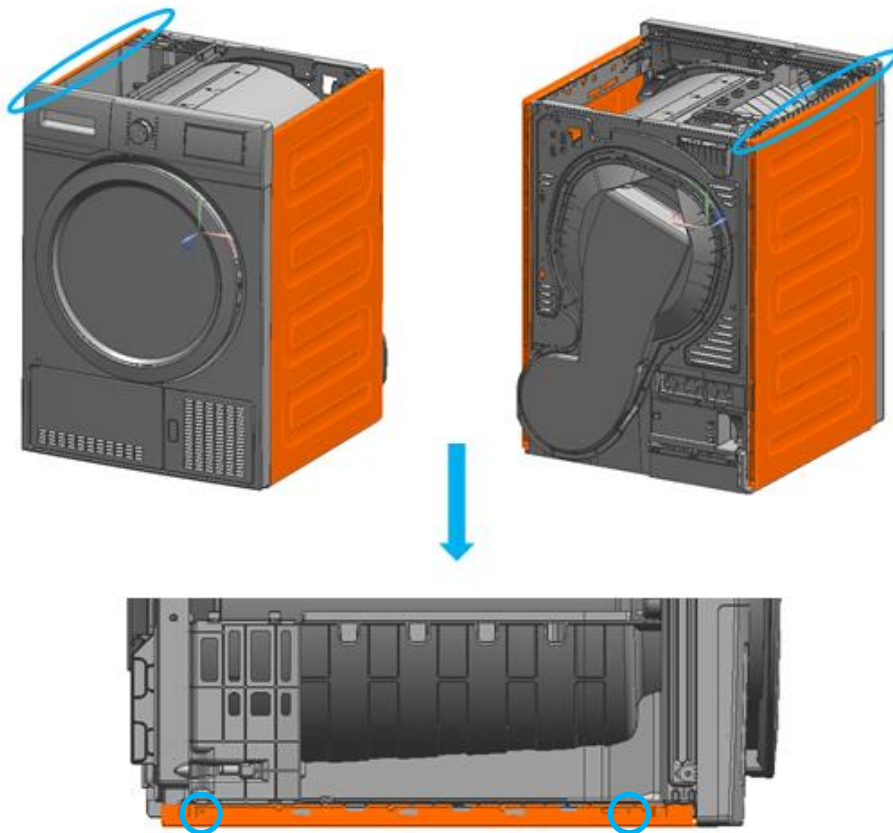


Figure 13.2. Disassembling the top plate

- Unscrew the top plate.
- Pull the top plate towards the rear of the machine.

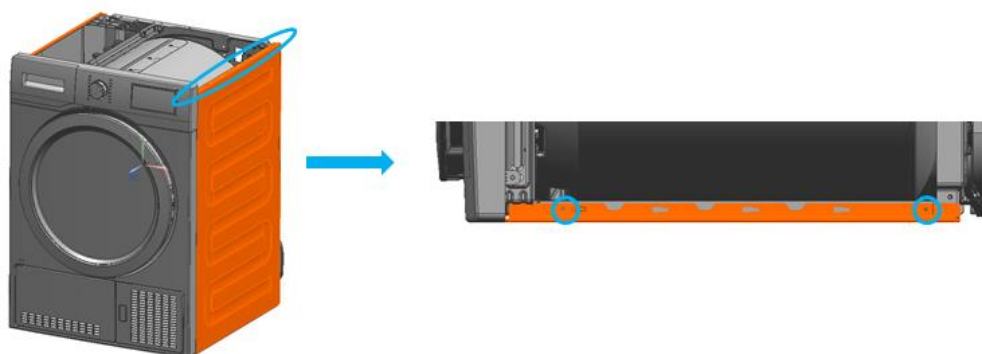
13.3. Side Panel:

13.3.1. Side Panel / Side Support Bracket:



*Figure 13.3. Screws between the side panel and side support bracket
(Water Tank Side)*

- Remove the screws between the side panel and side support bracket.



*Figure 13.4. Screws between the side panel and side support bracket
(Drum Side)*

- Remove the screws between the side panel and side support bracket.

13.3.2. Side Panel / Rear Panel:

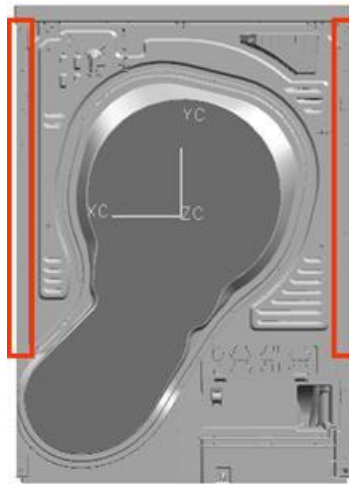


Figure 13.5. Connections between the side panel and the rear panel at the back side of the dryer

- Remove the screws as highlighted in the figure between the side panel and the rear panel.

13.3.3. Side Panel / Plastic Chassis Assembly:

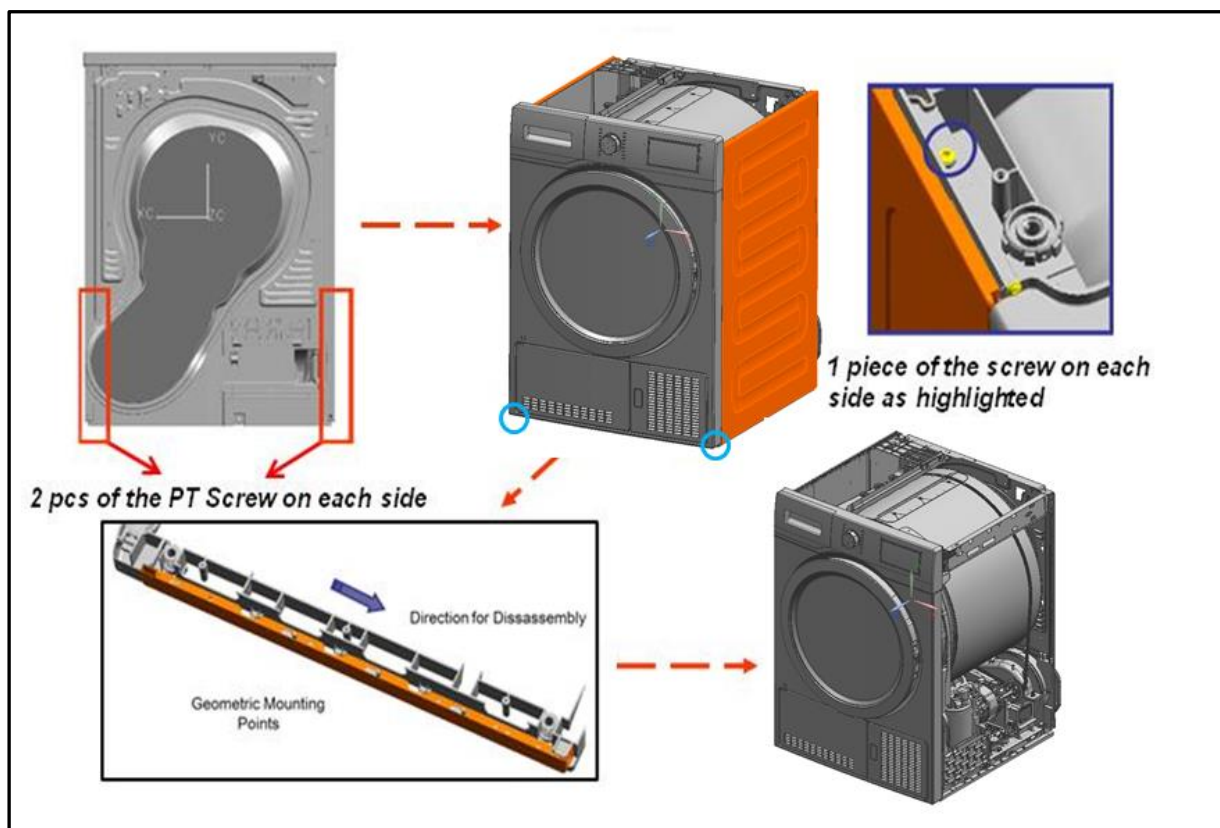


Figure 13.6. Connections between the side panel and the plastic chassis assembly

- Remove the 2 pieces of the PT screw on each side of the dryer as highlighted in the figure between the side panel and the plastic chassis.
- Remove the 1 piece of the screw on each bottom side of the dryer as highlighted in the figure.
- Disassemble the side panels from the geometric mounting points through the direction as shown in the figure.

13.3.4. Side Panel and Front Panel Connection:

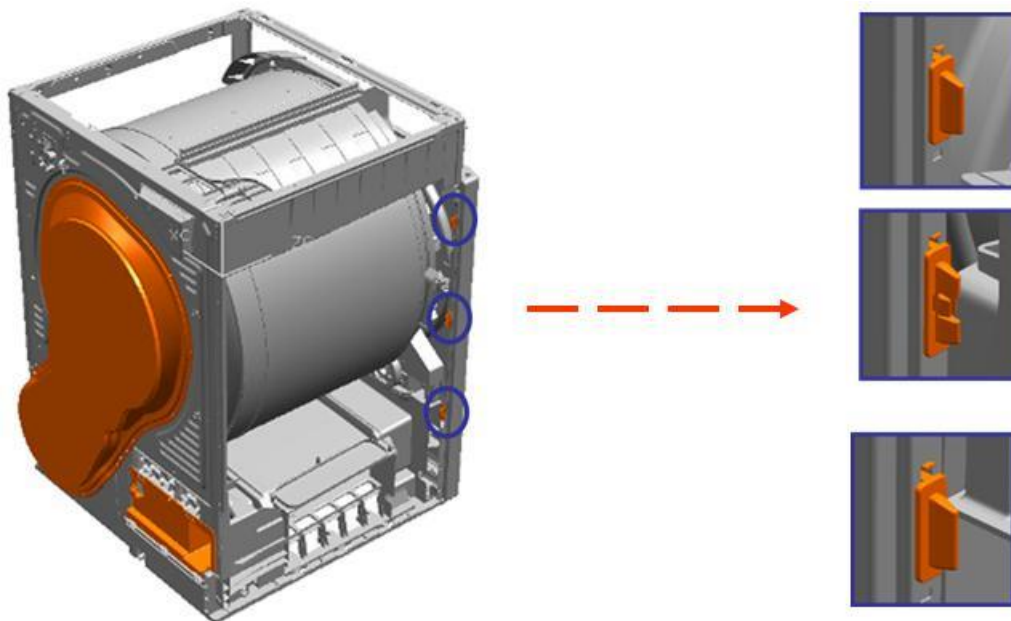


Figure 13.7. Coincident points between the front panel and side panel

- Dismount the coincident points between the front panel and the side panels.

13.4. Heater Cover:

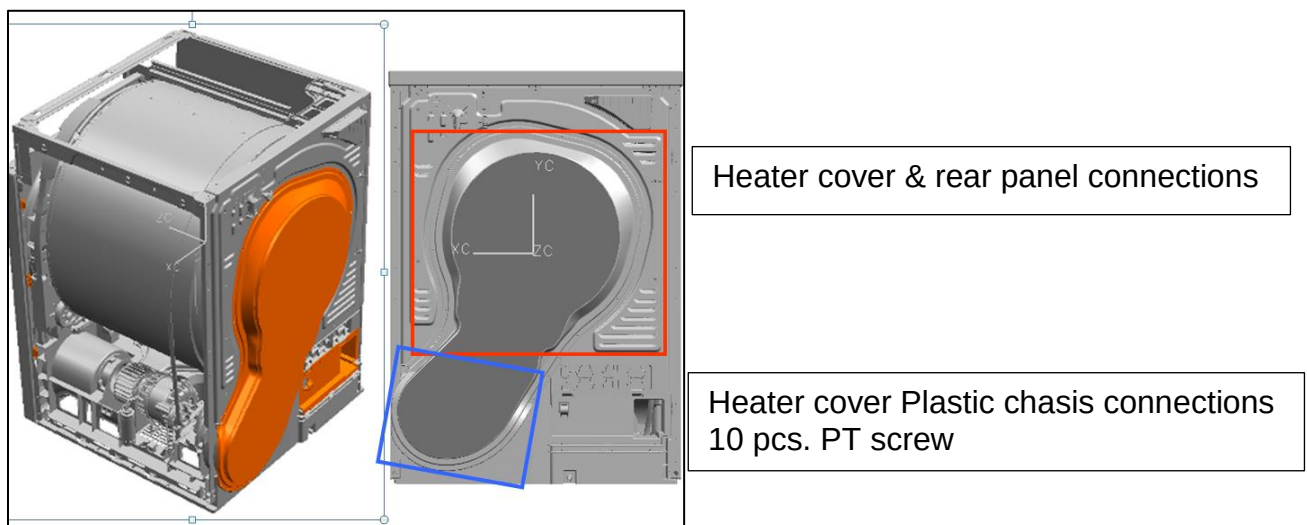


Figure 13.8. Connections Points of the heater cover

- Remove the sheet screws between the heater cover and the rear panel.
- Remove the PT screws between the heater cover and the plastic chassis.

13.5. Control Panel Assembly:

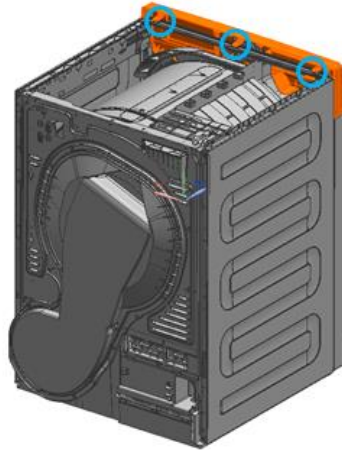


Figure 13.9. Connection points between Front Panel Assembly and Support Sheet of Front Panel

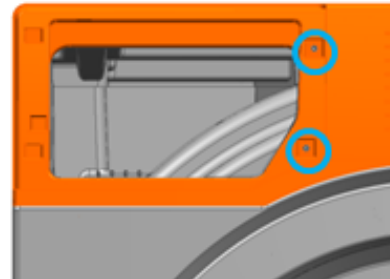


Figure 13.10. Connection points between Control Panel and Tank Housing

- Remove the 3 pieces of sheet screws between the front panel and support sheet of the front panel.
- Remove the PT screws between the control panel and tank housing.

13.6. Support Sheet Brackets:

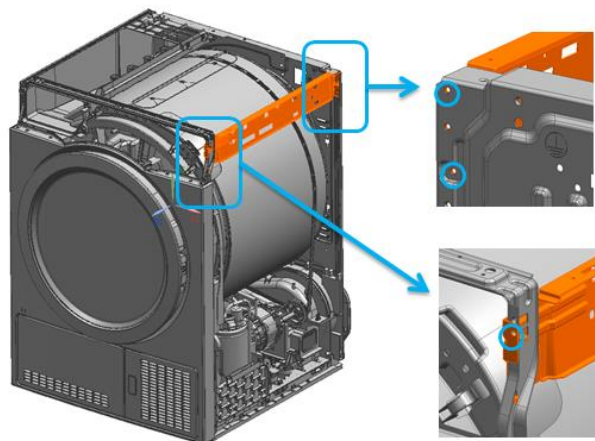


Figure 13.11. Connection points for Support Sheet Brackets on Right Hand Side (RHS)

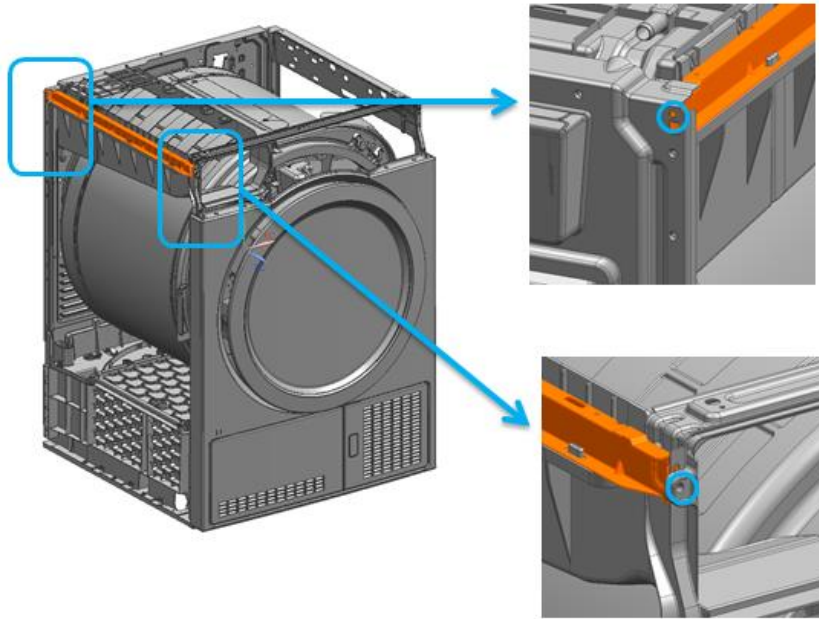


Figure 13.12. Connection points for Support Sheet Brackets on Left Hand Side (LHS)

- Remove the screws on the connection points of support sheet brackets on left and the right hand sides of the dryer.

13.7. Rear Panel Assembly

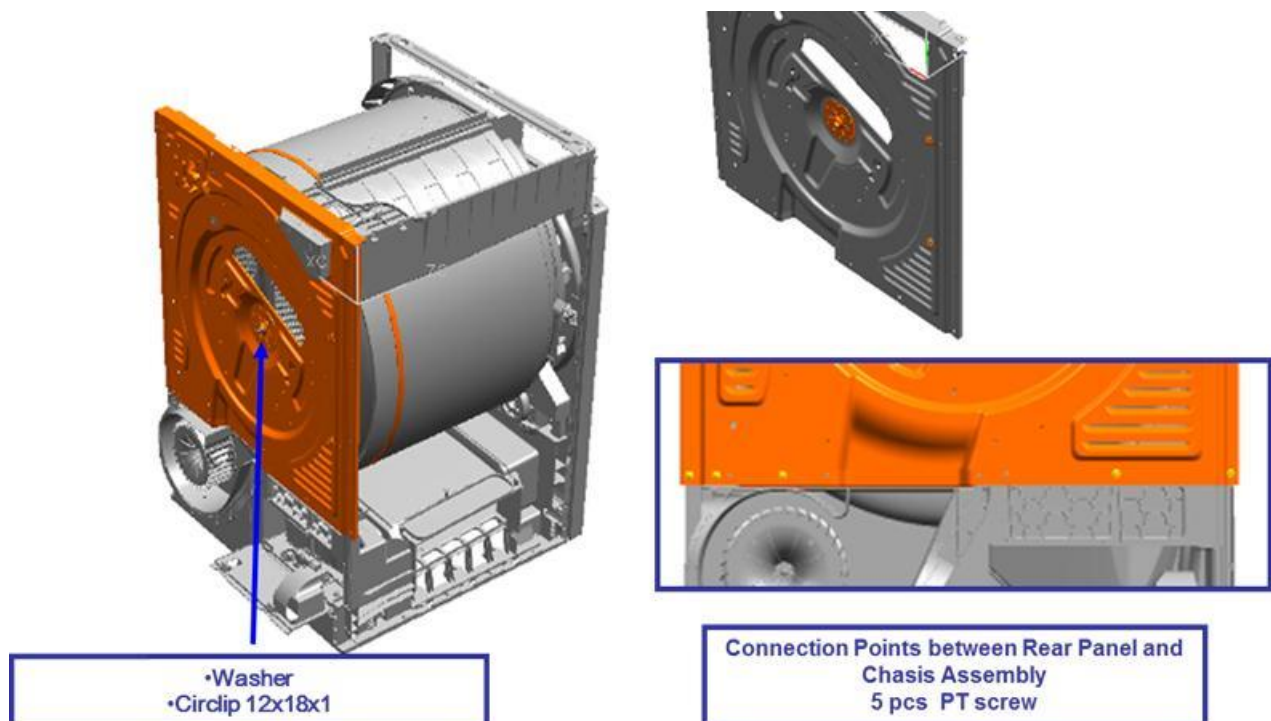


Figure 13.13. Connection points between Rear Panel and Chassis Assembly

- Remove 5 pieces PT screws between the rear panel and the chassis assembly.

- Disassemble the washer and the circlip shown in the figure by the aid of a screwdriver.

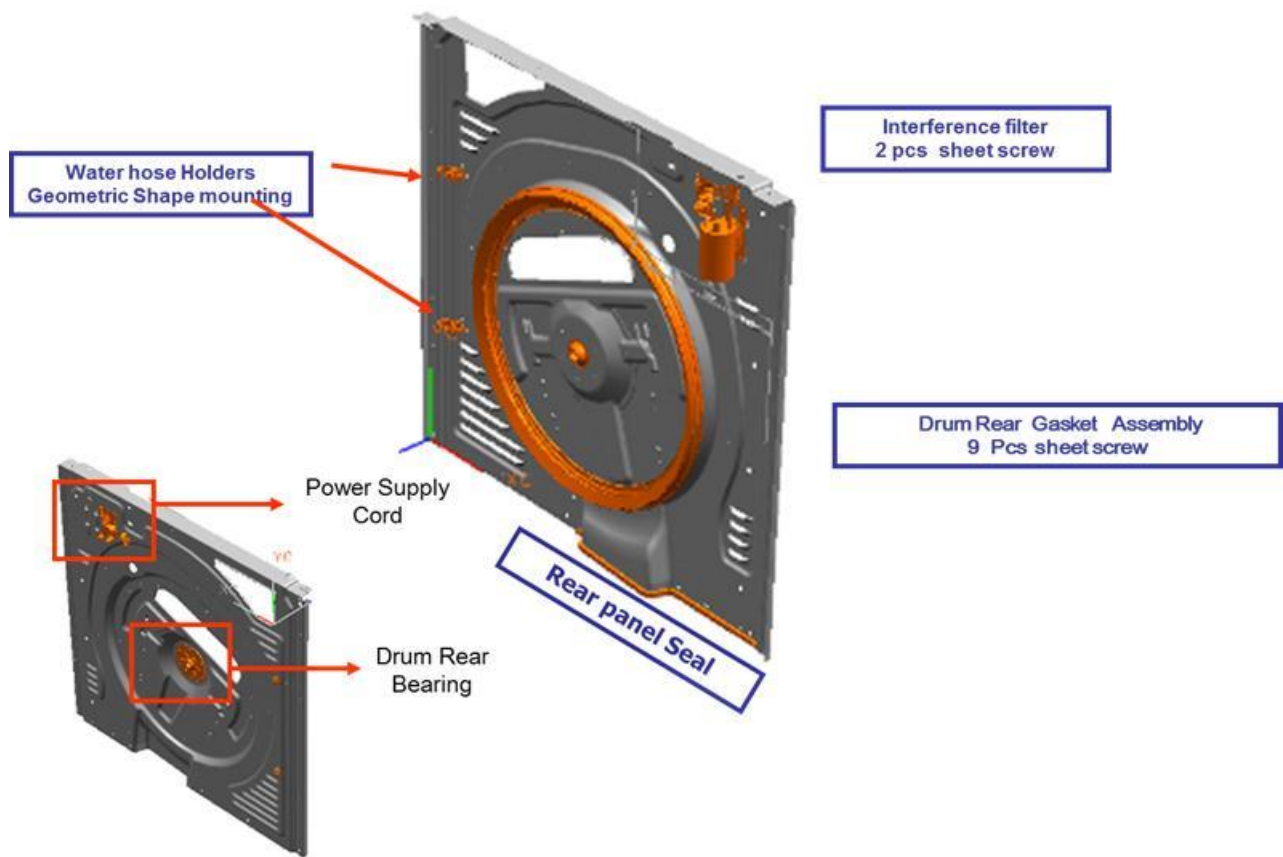


Figure 13.14. Sub-parts on the Rear Panel Assembly

- After removing the PT screws, washer and circlip, dismount the rear panel from the assembly by removing the hoses from the water hose holders located on the rear panel as shown in the figure. Sub-parts shown in the figure above are listed below:
 - Power Supply Cord
 - Drum Rear Bearing
 - Drum Rear Gasket Assembly
 - Interference Filter
 - Water Hose Holders

13.8. Drum Assembly:

- To disassemble the drum assembly:
 - Lift up the drum on the highlighted direction.
 - Pull towards the drum to the backside and remove from the dryer body.
 - By this movement, any interaction between the drum and the plastic chassis is prevented.

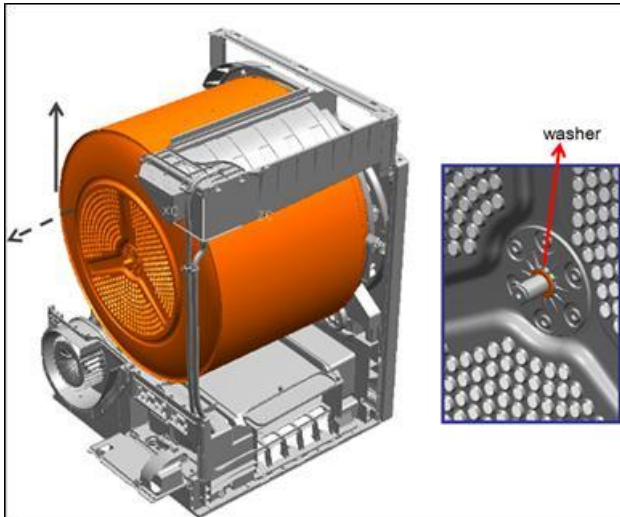


Figure 13.15. Drum Disassembly

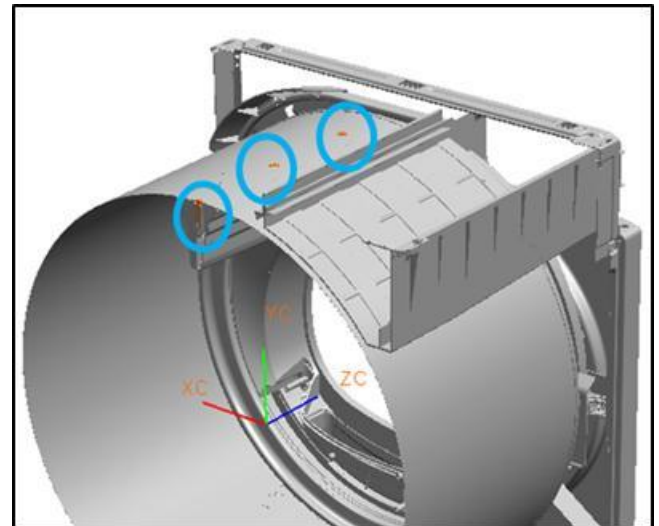


Figure 13.16. Drum Pedals

- Remove the 3 PT screws for each of the drum pedals to dismount them.

13.9. Control Panel Support Bracket:

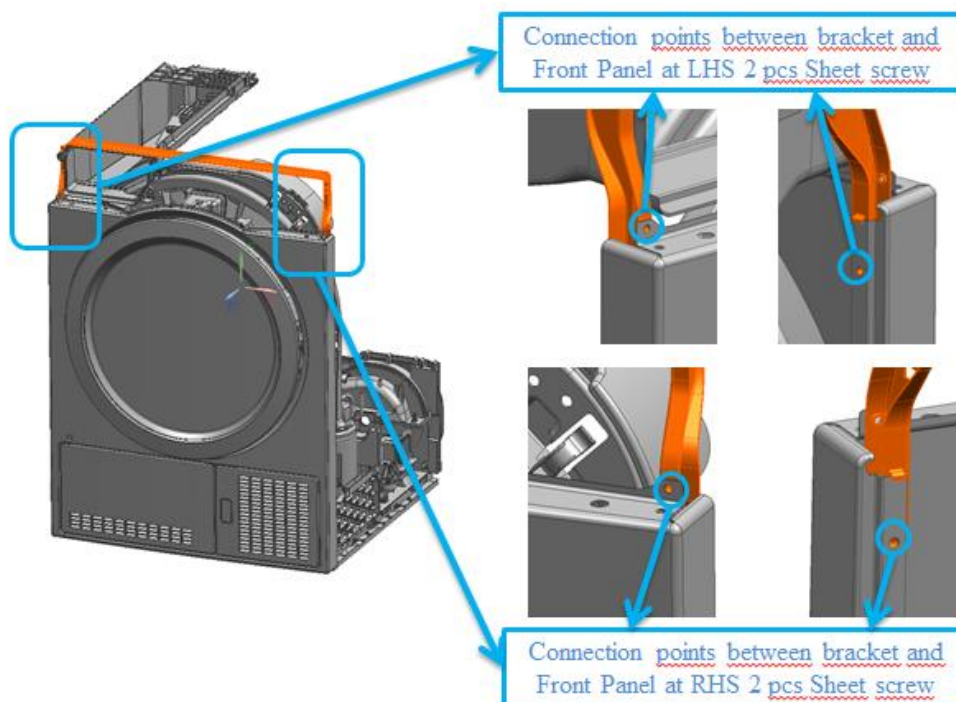


Figure 13.17. Control Panel Support Bracket Disassembly

13.10. Water Tank Housing:

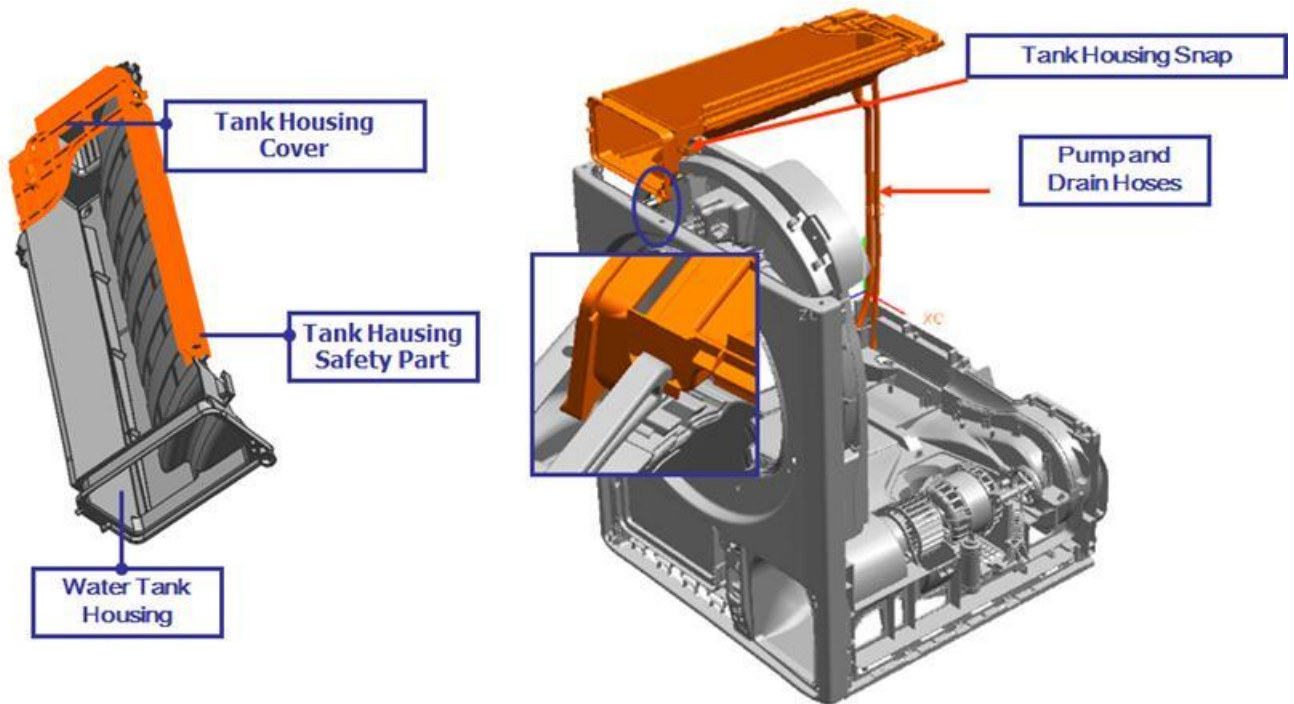


Figure 13.18. Water Tank Housing

- Disassemble the water tank housing due to the details mentioned above figure.
- Water tank housing consists of hose holders, tank housing safety part and the tank housing cover.

13.11. Glass Door Group Assembly:

- Glass door group used in products is reversible.
- Glass door group can be assembled by the below following instructions.



Figure 13.19. Assembling the gasket and glass

- Place the gasket inside the inner plastic door.
- Assemble the glass inside the gasket and the inner plastic door.

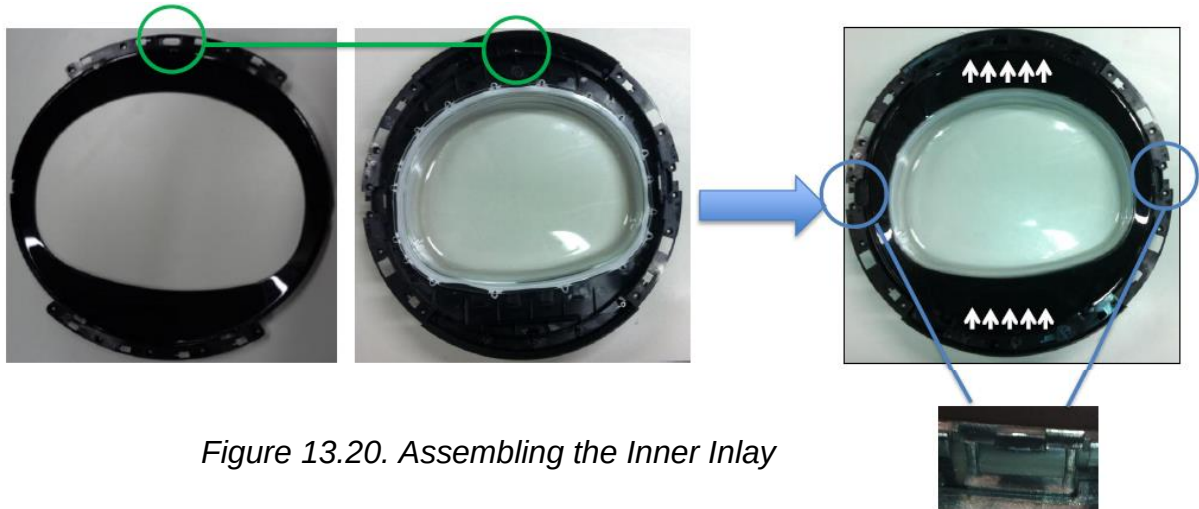


Figure 13.20. Assembling the Inner Inlay

- After assembling the glass, place the inner inlay.
- As shown in the figure above, the upper gap on the inner inlay should correspond to the upper boss on the inner plastic door.
- Place the inner inlay inside the inner plastic door by the help of the side snapfits on the inlay.
- Press these snapfits in order to place the inlay tightly.

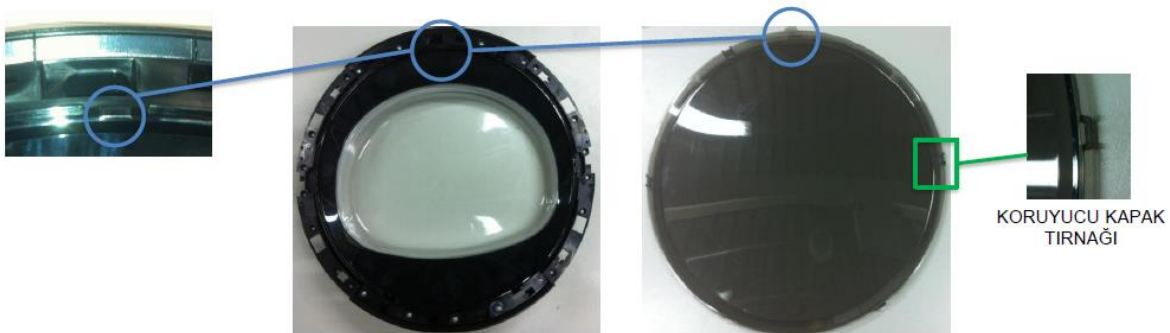


Figure 13.21. Protective Door Assembly

- After assembling the inner inlay, place the protective door.
- In order to put the protective door in a centre position, correspond the upper snapfit of the protective door onto the upper gap of the inner door.
- By using the side snapfits of the protective door, fix it on the inner door.

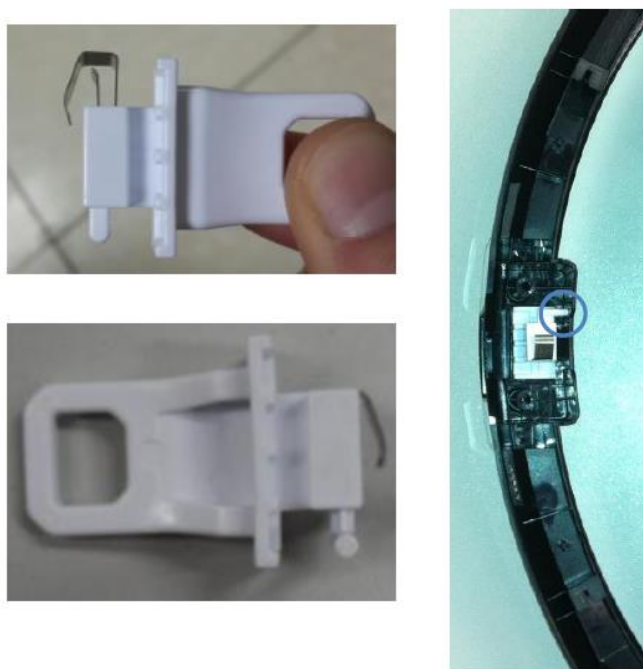


Figure 13.22. Hook Assembly

- After assembling the protective door, place the hook inside the hook holder.
- Firstly, insert the hook spring inside the hook as shown in the figure above.
- Assemble the hook inside the hook holder as shown in the figure above.



Figure 13.23. Hook Holder Assembly

- After assembling the hook inside the hook holder, insert the hook holder assembly on the inner door.
- Assemble the hook holder with the 4 blue highlighted screws.
- Red highlighted gaps should be kept empty.

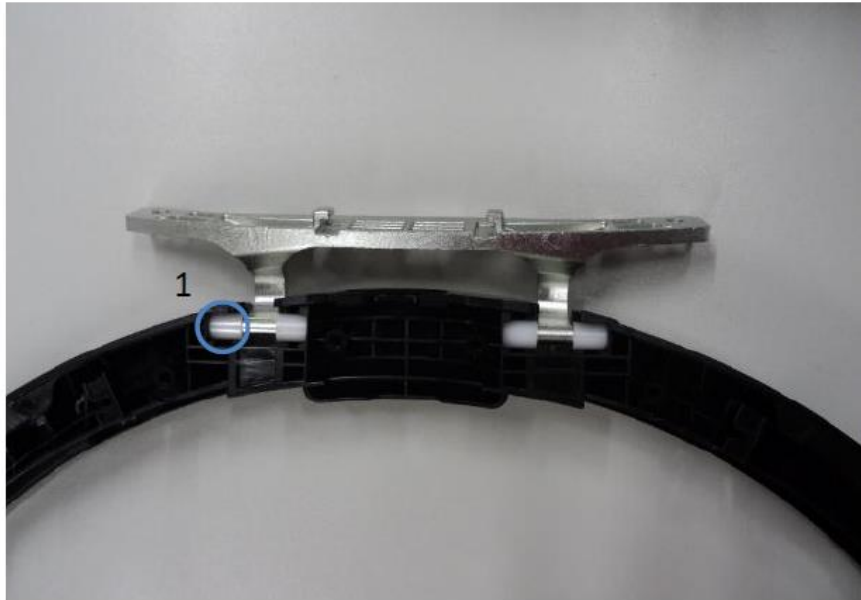


Figure 13.24. Hinge Assembly

- Insert the hinge inside the hinge holder as shown in the figure above.

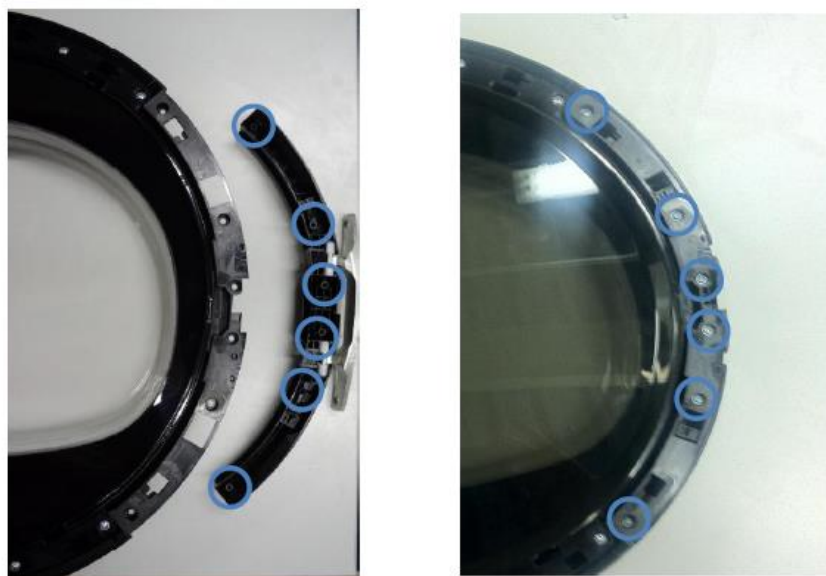


Figure 13.25. Hinge Holder Assembly

- Assemble the hinge holder with the 6 blue highlighted screws.



Figure 13.26. Outer Door Assembly

- Assemble the outer door on the inner door assembly.
- As shown in the figure above, upper boss of the outer door should correspond to the upper gap of the inner door assembly.



Figure 13.27. Microswitch Assembly

- Assemble the microswitch as shown in the figure above.

13.12. Door Group Assembly for Cylinda and Smeg Brand High End OEM Models:

- Door group used in products is reversible.
- Door group can be assembled by the below following instructions.



Figure 13.28. The Outer Door Parts

Outer door assembly consists of the following parts:

1. The outer door
2. The outer handle
3. The inner handle
4. The hook assembly
5. The hinge holder
6. The hinge
7. The hinge fixing part

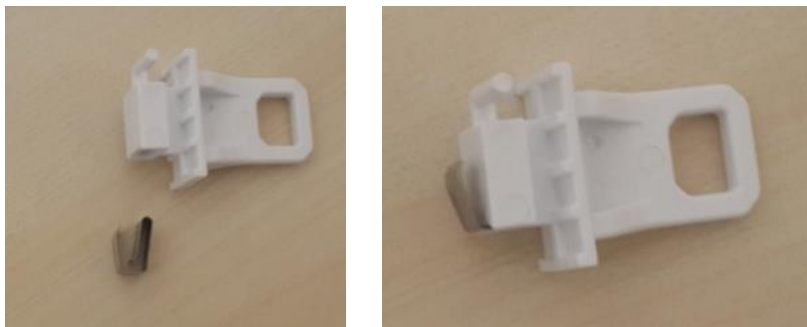


Figure 13.29. The Hook and the hook spring

- Insert the hook spring into the hook as shown in the above figure.



Figure 13.30. The Outer Handle Assembly

- Assemble the outer handle onto the outer door as shown in the above figure.
- Be sure that the snap fits of the outer handle is assembled tightly.
- During the assembling, the bosses on the outer handle should correspond to the holes on the outer door.



Figure 13.31. The Hook Assembly

- The hook assembly is inserted to the outer door as shown in the above figure.



Figure 13.32. The Inner Handle Assembly

- The inner handle is assembled as shown in the above figure.
- The inner handle is placed with an angular position inside the outer handle groove.



Figure 13.33. The Hook Holder Assembly

- The hook holder is assembled onto the inner handle as shown in the above figure.
- The hook holder is assembled with the torx screws.



Figure 13.34. The Hinge Fixing Part Assembly

- The hinge fixing part is assembled into the outer door as shown in the above figure.
- Be sure that the fixing part is assembled to its groove tightly.



Figure 13.35. The Protective Door Assembly

- The surface of the protective door which corresponds to the inner handle should be assembled into the inner handle snapfits.
- Be sure that the protective door is assembled to the snapfits tightly.

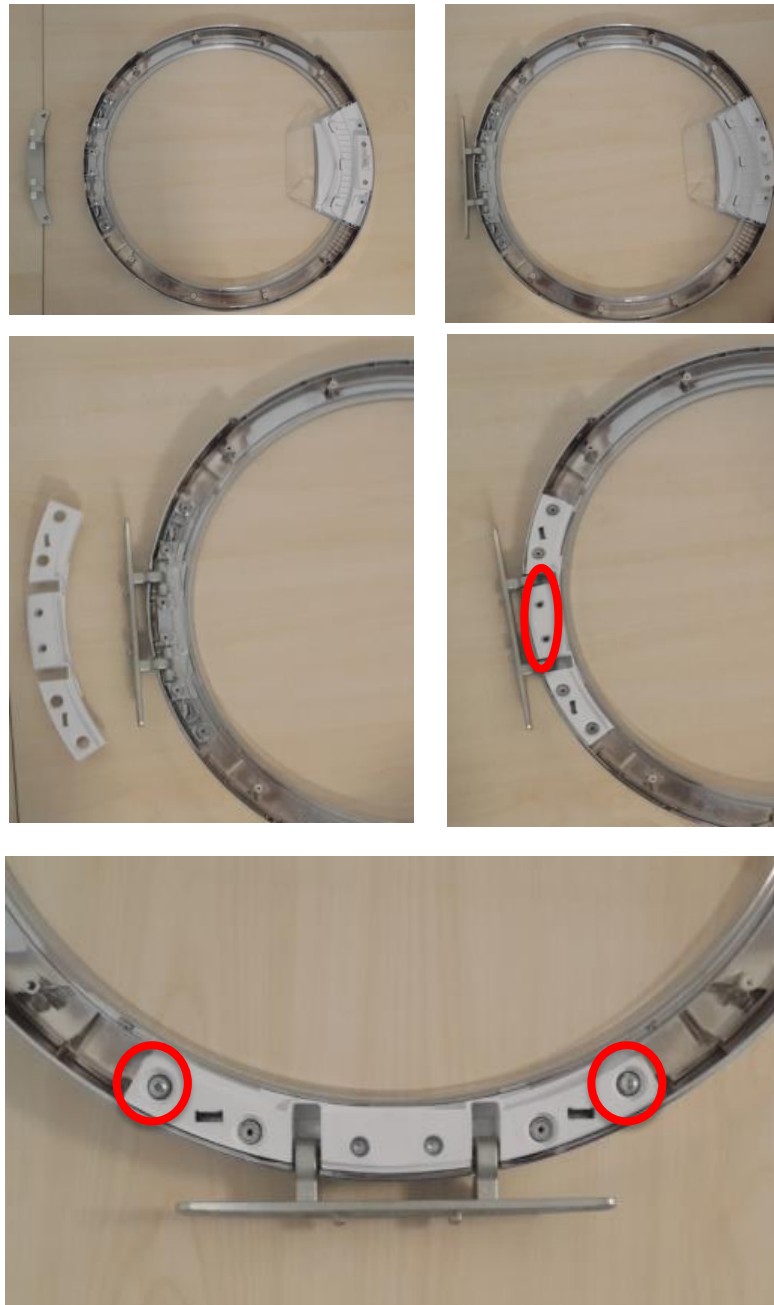


Figure 13.36. The Hinge Assembly

- The hinge is assembled to the hinge fixing part as shown in the above figure.
- After that, the hinge holder is screwed onto the hinge and hinge fixing part.



Figure 13.37. The Inner Door Assembly

- The inner door assembly (inner door with glass) is assembled into the outer door as shown in the above figure.



Figure 13.38. The Microswitch Pin Assembly

- Assemble the microswitch pin as shown in the figure above.

13.13. Microswitch and Pump:

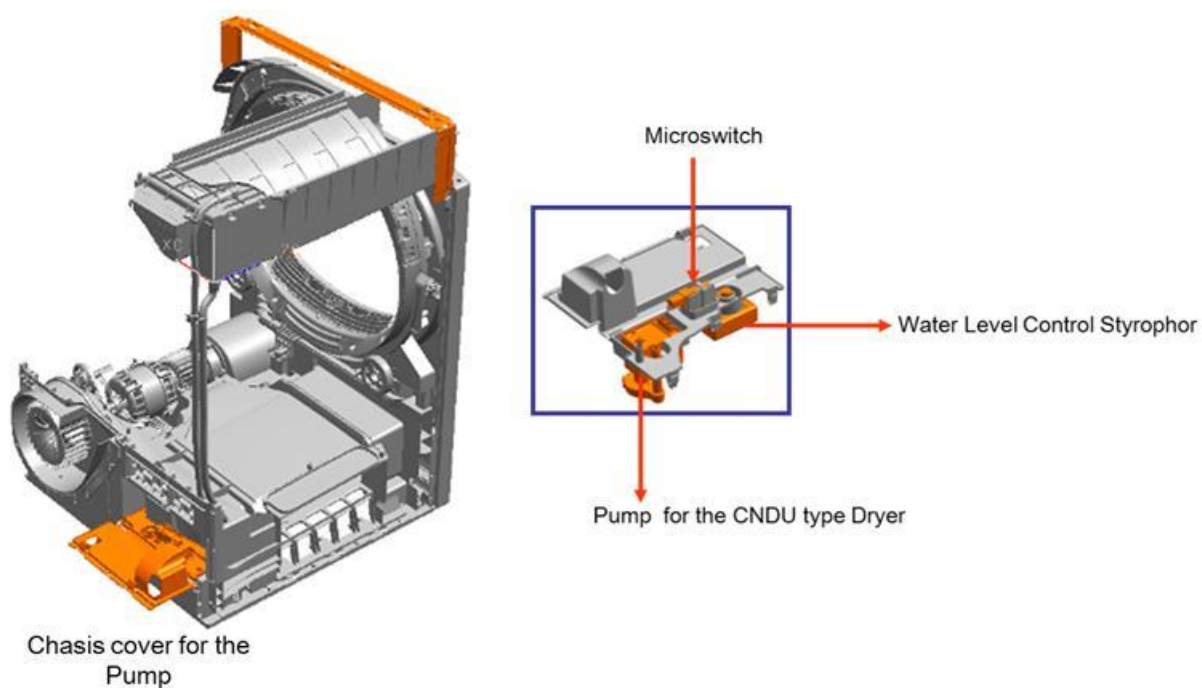


Figure 13.39. Disassembling the pump and the microswitch

13.14. Kickplates:

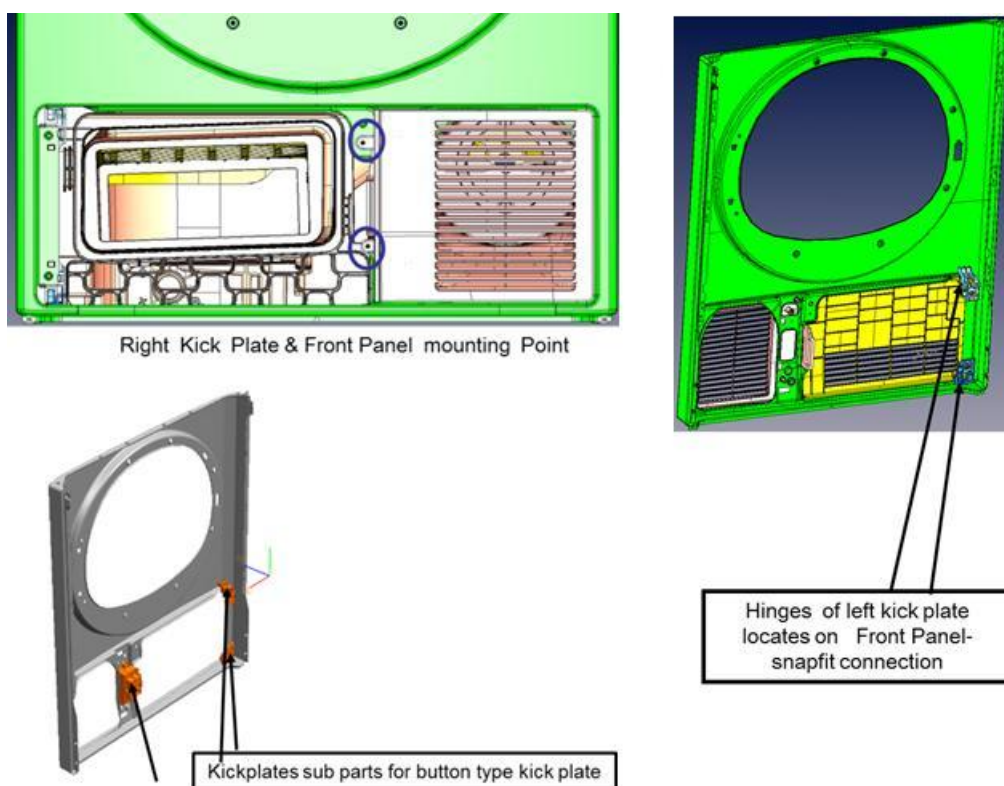


Figure 13.40. Disassembling the kickplate

13.15. Front Panel:

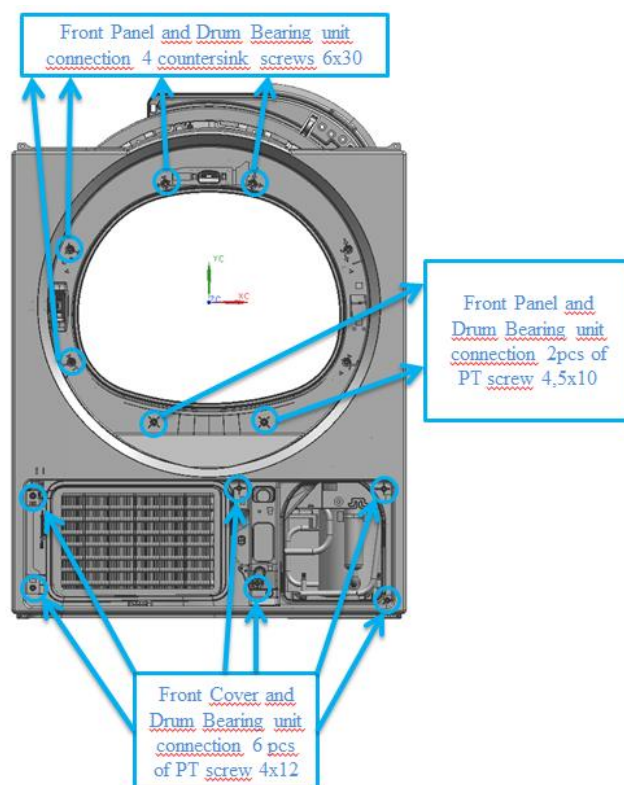


Figure 13.41. Disassembling the front panel

- After disassembling the kickplates, front panel can be dismounted from the dryer by removing the screws shown in the figure above.

13.16. Drum Front Bearing Unit:

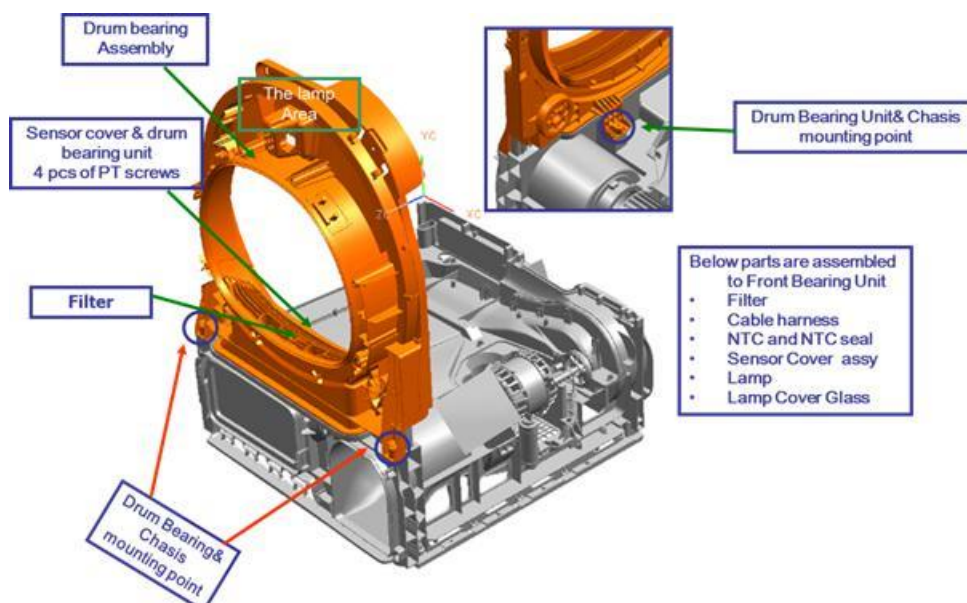
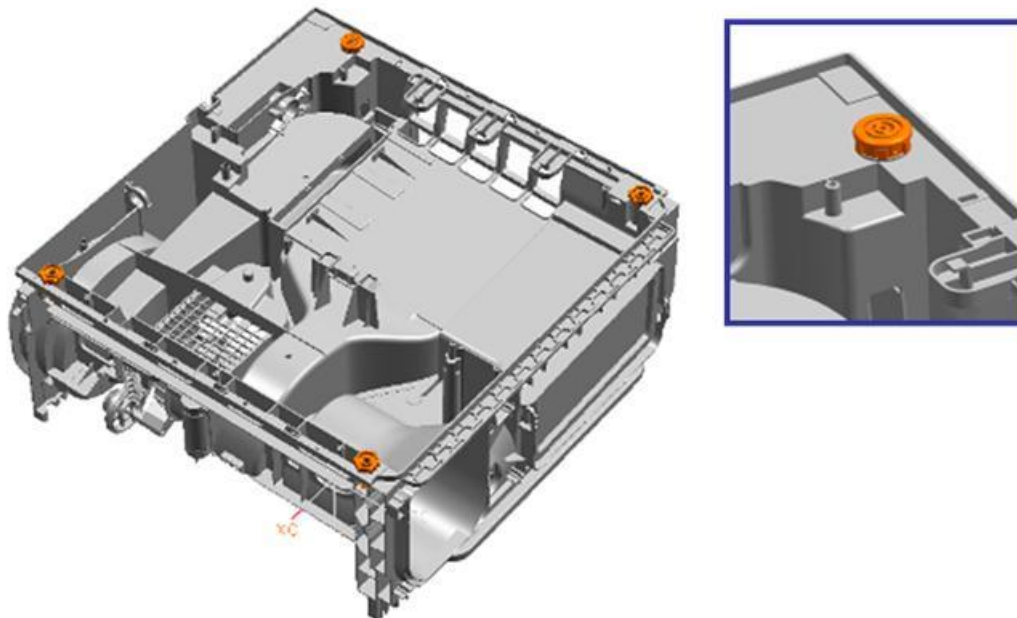


Figure 13.42. Connections of drum front bearing housing

- Disassemble the front bearing housing from the mounting points shown in the figure above.

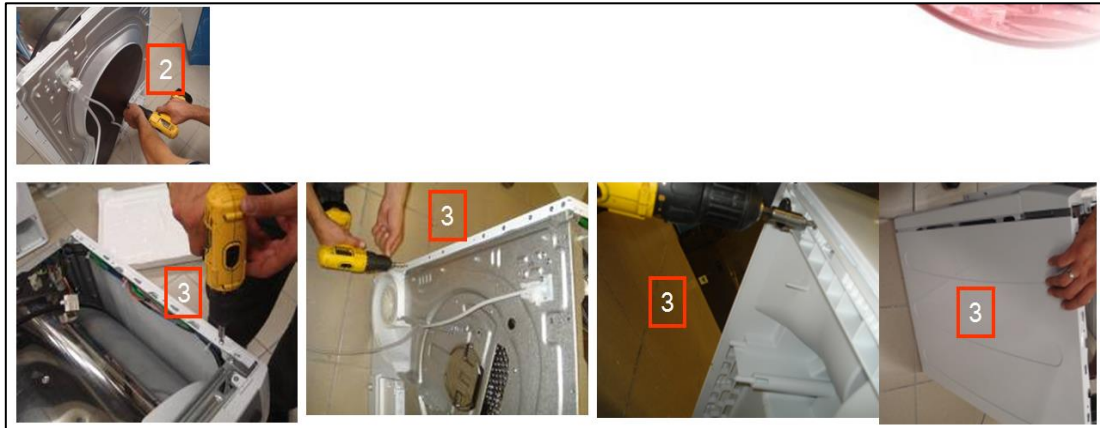
13.17. Adjustable Feet:



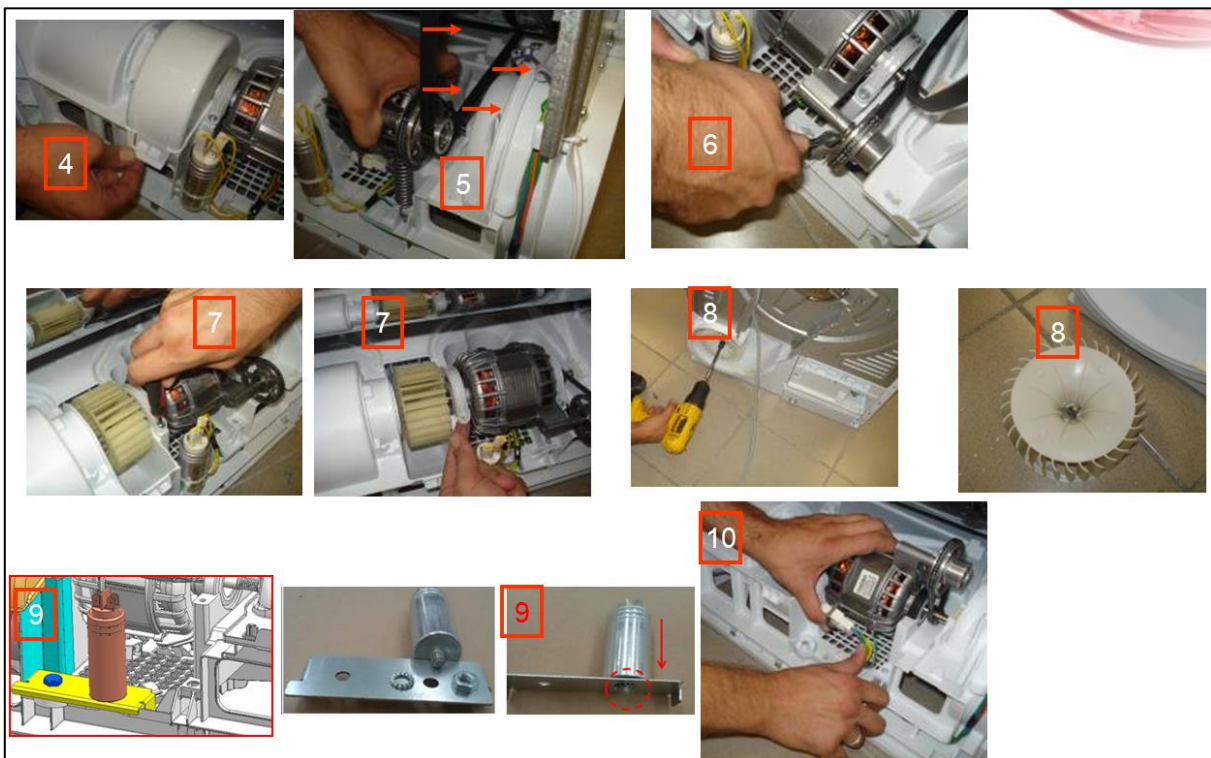
- 4 adjustable feet and their rubber parts are mounted underneath the plastic chassis as shown in the figure above.

14. Service Details for the Components:

14.2. Service Details of the Motor Unit:



- Remove the top plate.
- Remove the heater cover (2).
- Remove the side panel on RHS (3).



- Force the motor assembly to turn it on clockwise direction to loose V-belt (5).
- Take out the tension spring (6).
- Unscrew the 4 pcs of the PT screw as shown on the picture and take out the plastic brackets (7).
- Dismount the motor socket (7).

- Take out the process fan dismounting the mounted nut (8).
- Dismount the capacitor from the support sheet parts which is located on plastic chasis (8)
- ❗ **Read the Service Information form with 2012-K13 code before apply that operation.**
- Take out the motor as shown on the picture (10).

14.3. Service Details of Drum Assembly:



- Remove the top plate (1).
- Remove the side panels on each side (2).
- Remove the rear Plastic Cover (3).
- Remove the plugs and the cables of interference filter (5).



- Take out the bracelets on the main cable harness path (6).
- Remove the drum bearing prevention part (8).

- Remove the circlip and nut as highlighted on picture (9).
- Disassemble hoses (10).
- Drum assembly lifted up direction and pull back slightly (11).



- To re-assemble the drum assy. to the dryer properly, the above pictures should be taken into account.

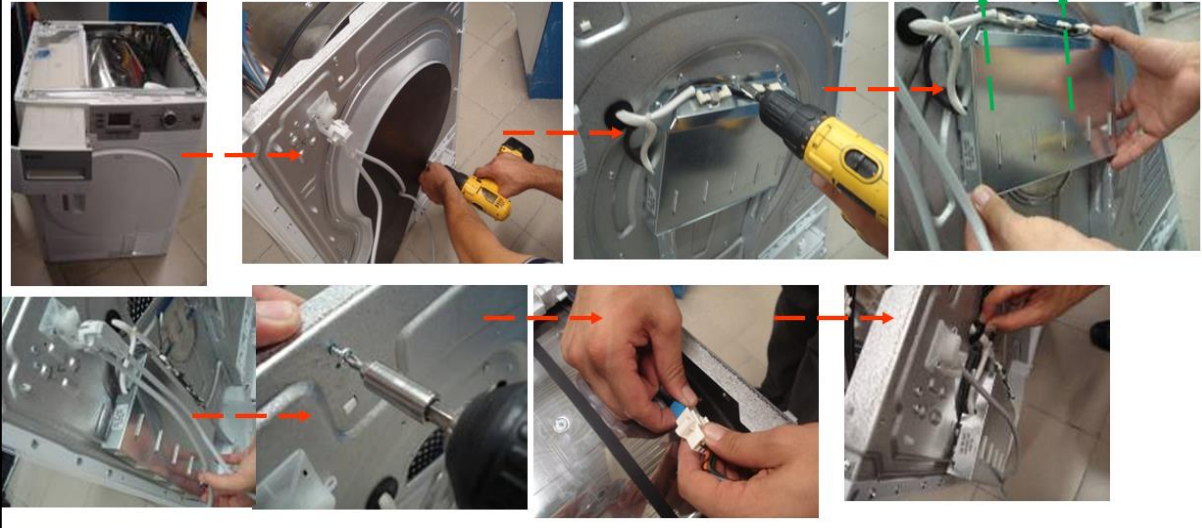
14.4. Service Details of Door NTC:



- Open left kickplate with or without button.
- Remove the screw on the right kickplate.
- Take out the filter.
- Take out the NTC as shown on picture.

14.5. Service Details of Heater:

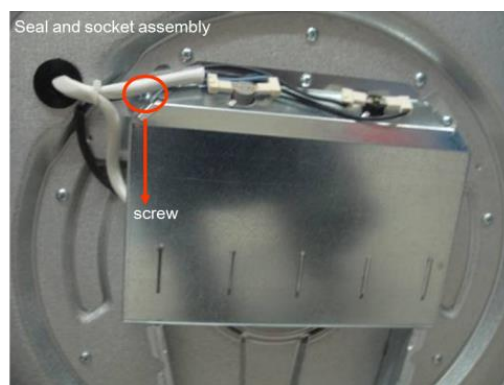
- Remove the top plate
- Remove heater cover
- Remove the highlighted screws that mount heater to rear panel
- Move the heater through highlighted direction to loose snap-fit connection
- Remove the socket connection on inner side of the body to complete removing process



Listed details below should be applied while assembling the heater to the dryer body.

- Heater cover must be changed after every service operation
- Heater assembly is mounted to the dryer body with 2 type of connection by listed order
 - Snap fit connection
 - Screw connection

There must be no damage or deformation on heater harness during heater mounting.



14.6. Service Details of Pump and Microswitch:



- Remove the highlighted screw.
- Open the cover with pushing snap-fit.
- Remove the highlighted hose.
- It is possible to apply service on microswitch parts on this level.
- It needs to completely remove pump cover to service the pump and water level part.

14.7. Service Details of Control Panel and Drum Lamp:



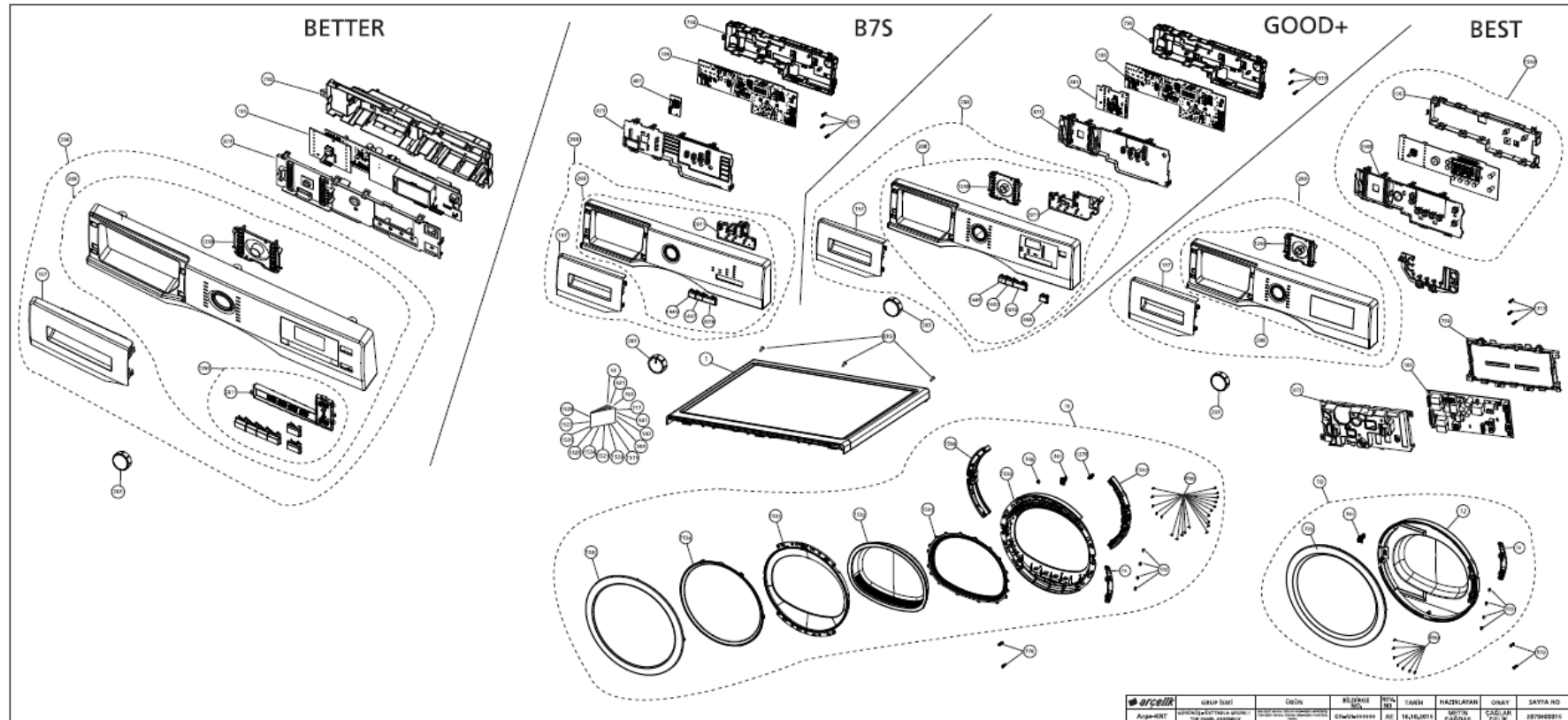
- Remove the top plate.
- Remove the 3 pcs of the screw that highlighted on picture.
- Remove the additional screw if the dryer is CNDU type.
- Control panel assembly is available to apply service action on this level.

14.8. Service Details of Door Lock System:

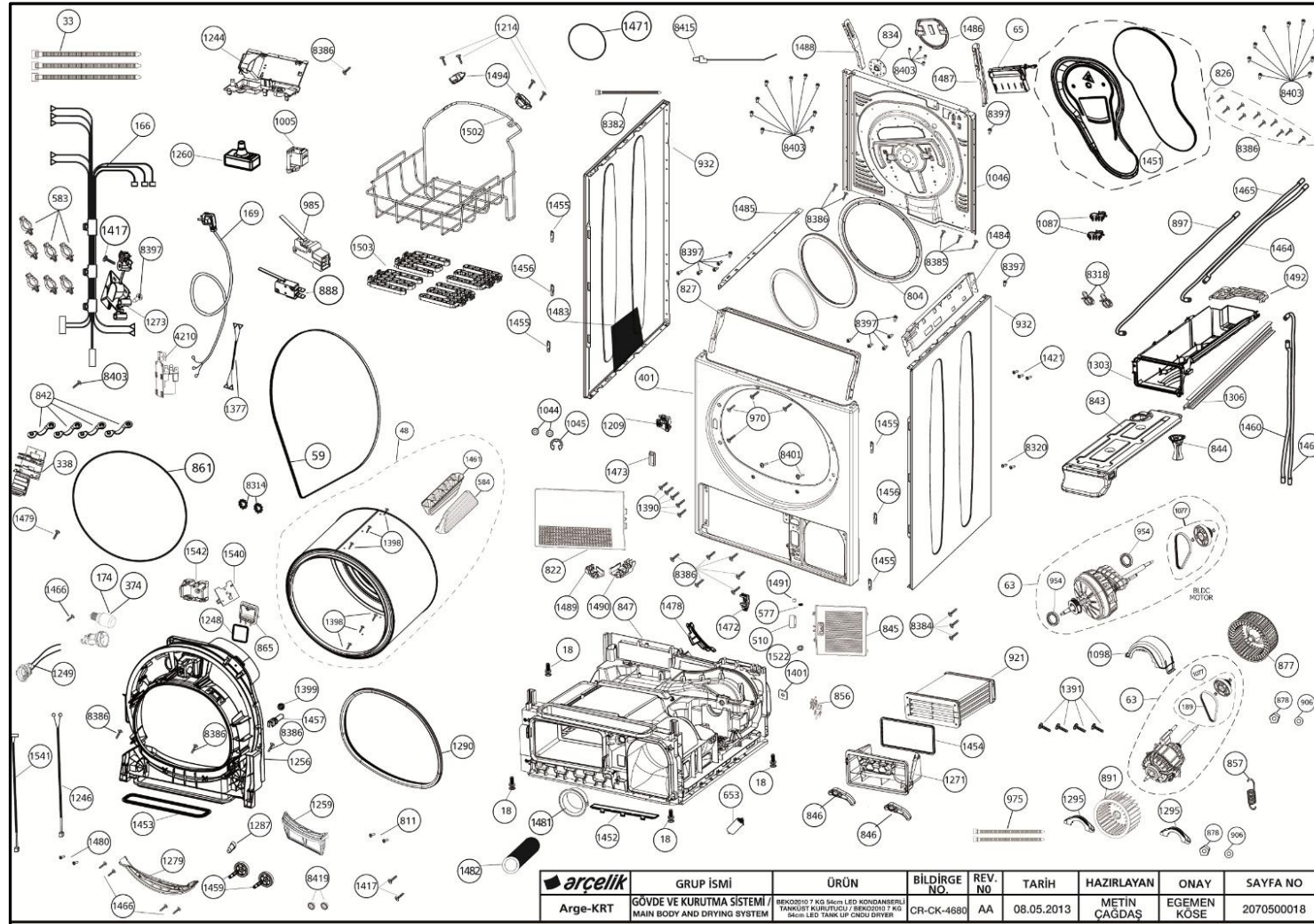
- Remove the top plate.
- Remove side panel on LHS.
- Disassemble the plastic housing as shown on the pictures.
- Take out the locking assembly working on inner side as highlighted on the picture.

15.Exploded Views:

15.2. Front Panel – Top Panel – Door Group Assembly:



15.3. Main Body and Drying System:



Note: The exploded views are given as a reference and the updated versions should be followed from Teamcenter.

16.Revision History:

Revision	Date	Summary
00	30.05.2014	Service Handbook
01	31.07.2014	New logo is inserted and compressor details of Super Eco A++ and 54 cm HP details are added.
		Glass door assembly for High End OEM (Brand: Cylinda and Smeg) models are added.
02	26.04.2016	Important note is added to service test step 8.
03	09.08.2019	Fault algorithms and NTC temperature-resistance values added
04	05.01.2022	Important note is added to service test step 6.