SERVICE HANDBOOK NO:
REV. 04

BEKO 2013 PLATFORM (GOOD+)

HEAT PUMP DRYER

SERVICE HANDBOOK



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

Sensitivity: Public

2. Table of Contents:

2. Table of Contents: 2
3. Important Instructions for Safety and Environment: 5
3.1. General safety: 5
3.2. Electrical safety: 5
3.3. Product safety: 6
3.4. Intended Use: 7
3.5. Children's safety: 7
3.6. Compliance with the WEEE Directive and Disposing of the Waste Product: 7
3.7. Compliance with RoHS Directive: 8
3.8. Package İnformatİon: 8
4. Technical Specification:
Error! Bookmark not defined.
4.1. Product Definition:
Error! Bookmark not defined.
4.2. Dimensions:
Error! Bookmark not defined.
4.3. Package:
Error! Bookmark not defined.
4.4. Packed Dimensions:
Error! Bookmark not defined.
4.5. Weight:
Error! Bookmark not defined.
4.6. Working Condition:
Error! Bookmark not defined.
4.7. Electrical Specification:
Error! Bookmark not defined.
4.8. Power Cord:
Error! Bookmark not defined.
4.9. Motor (Used in HP Dryer with A+++ / Eco A++* Energy Class):
Error! Bookmark not defined.
4.10. Motor (Used in HP Dryer with A++/ Super Eco A++ / A+ Energy Class and in 54 cm HP Dryer):
Error! Bookmark not defined.
4.11. Pump :
Error! Bookmark not defined.
4.12. Pump :
Error! Bookmark not defined.
4.13. Compressor (Used in HP Dryer with A+++ and Eco A++ Energy Class):
Error! Bookmark not defined.
4.14. Compressor (Used in HP Dryer with A++ / A+ Energy Class):
Error! Bookmark not defined.
4.15. Compressor (Used in HP Dryer with Super Eco A++ Energy Class):
Error! Bookmark not defined.

Sensitivity: Public

4.16. COMPRESSOR (USED IN 54 CM HP DRYER):
ERROR! BOOKMARK NOT DEFINED.
4.17. COMPRESSOR COOLING FAN:
(USED IN HP DRYER WITH A+++ & A++ & A+ ENERGY CLASS)
ERROR! BOOKMARK NOT DEFINED.
4.18. COMPRESSOR COOLING FAN:
(USED IN HP DRYER WITH A++ ENERGY CLASS)
ERROR! BOOKMARK NOT DEFINED.
4.19. DOOR & COMPRESSOR NTC:
ERROR! BOOKMARK NOT DEFINED.
4.20. BODY:
ERROR! BOOKMARK NOT DEFINED.
4.21. DRUM:
ERROR! BOOKMARK NOT DEFINED.
4.22. CONTROL SYSTEM SPECIFICATIONS:
ERROR! BOOKMARK NOT DEFINED.

5. Installation: 15

5.1. APPROPRİATE INSTALLATİON LOCATİON: 15
5.2. REMOVİNG THE TRANSPORTATİON SAFETY ASSEMBLY: 15
5.3. MOUNTİNG OVER A WASHİNG MACHİNE: 16
5.4. CONNECTİNG TO THE DRAİN: 16
5.5. ADJUSTİNG THE FEET: 18
5.6. ELECTRİCAL CONNECTİON: 18
5.7. TRANSPORTATION OF THE PRODUCT: 19
5.8. WARNİNGS RELATED TO SOUND: 19

6. Operating the Product: 21

6.1. PREPARATİON: 21
6.2. CONTROL PANEL: 21
6.3. DİSPLAY SYMBOLS: 21
6.4. PREPARİNG THE MACHİNE: 22
6.5. PROGRAMME SELECTİON: 22
6.6. MAİN PROGRAMMES: 23
6.7. ADDİTİONAL PROGRAMMES: 23
6.8. PROGRAMME SELECTİON AND CONSUMPTİON TABLE: 26
6.9. AUXİLİARY FUNCTİONS: 27
6.10. WARNİNG SYMBOLS: 27
6.11. END TİME SETTİNG: 28
6.12. STARTİNG THE PROGRAMME: 28
6.13. CHİLD LOCK: 29
6.14. CHANGİNG THE PROGRAMME AFTER İT HAS STARTED: 29
6.15. ADDİNG / REMOVİNG LAUNDRY İN PAUSE MODE: 29
6.16. CANCELİNG THE PROGRAMME: 30
6.17. END OF PROGRAMME: 30

7. Maintenance and Cleaning: 31

7.1. LİNT FİLTER / LOADİNG DOOR INNER SURFACE: 31

Sensitivity: Public

7.2. CLEANİNG THE SENSORS: 32
7.3. DRAİNİNG THE WATER TANK: 33
7.4. CLEANİNG THE FİLTER DRAWER: 34
7.5. CLEANİNG THE EVAPORATOR: 37
8. General Working Principle: 37
8.1. HEAT PUMP DRYER WORKING PRINCIPALS: 39
8.2. COMPONENTS RELATED TO THE DRYİNG CYCLE: 42
9. Electronic Components: 46
9.1. ELECTRONİC CARD ASSEMBLY: 46
10. Service Test Program: 47
11. Faults Algorithms: 54
11.1. MACHİNE DOES NOT WORK: 54
11.2. DEGREE OF DRYİNG CAN NOT BE REACHED OR DRYİNG TİME İS TOO LONG: 55
11.3. DRUM İS NOT ROTATİNG: 56
11.4. PROGRAM DOES NOT PROGRESS ALTHOUGH THE TANK İS EMPTY: 57
12. Wiring and Cable Schematics: 58
13. Dismounting Details: 68
13.1. TOP PLATE: 68
13.2. SİDE PANEL: 69
13.3. PLASTİC COVER MOUNTİNG POİNTS: 71
13.4. CONTROL PANEL ASSEMBLY: 72
13.5. SUPPORT SHEET BRACKETS: 72
13.6. REAR PANEL ASSEMBLY 73
13.7. DRUM ASSEMBLY: 74
13.8. CONTROL PANEL SUPPORT BRACKET: 75
13.9. WATER TANK HOUSİNG: 76
13.10. GLASS DOOR GROUP ASSEMBLY: 76
13.11. DOOR GROUP ASSEMBLY FOR CYLİNDA AND SMEG BRAND HİGH END OEM MODELS: 82
13.12. MİCROSWİTCH AND PUMP: 89
13.13. KİCKPLATES: 90
13.14. FRONT PANEL: 90
13.15. DRUM FRONT BEARİNG UNİT: 91
13.16. ADJUSTABLE FEET: 91
14. Service Details for the Components: 92
14.1. SERVİCE DETAİLS OF THE MOTOR UNİT: 92
14.2. SERVİCE DETAİLS OF DRUM ASSEMBLY: 94
14.3. SERVİCE DETAİLS OF DOOR NTC: 95
14.4. BASE PARTS INSİDE THE PLASTİC CHASSİS: 96
14.5. SERVİCE DETAİLS OF HEAT PUMP SYSTEM WİTH PLASTİC CHASSİS: 96
14.6. SERVİCE DETAİLS OF PUMP AND MİCROSWİTCH: 100
14.7. SERVİCE DETAİLS OF CONTROL PANEL AND DRUM LAMP: 100

Sensitivity: Public

14.8. SERVİCE DETAİLS OF DOOR LOCK SYSTEM: 101
15. Exploded Views: 102
15.1. FRONT PANEL – TOP PANEL – DOOR GROUP ASSEMBLY: 102
15.2. MAİN BODY AND DRYİNG SYSTEM: 103
15.3. CHASSİS ASSEMBLY: 104
16. Revision History: 105

Sensitivity: Public

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, an after sales service agent or an equally qualified personnel (preferably an electrician) or a person to be designated by the importer.

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- 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.

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- 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 is 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 automatic ally 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

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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.

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4. Technical Specification:

4.1. Product Definition:

4.1.1. Manufacturer : Arçelik A.Ş.
Çerkezköy - Tekirdağ / TÜRKİYE

4.1.2. Model : Beko DPY (7/8)(2/4/5)0(3/4/5/6/7)

4.1.3. Capacity (kg) : 7/8/9/10

4.1.4. Programs (Qty) : 14 sensor controlled program
1 timed program
1 ventilation program (compressor off)

4.2. Dimensions:

	UNPACKED			PACKED		
	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH
54 cm	846	597	589	885	650	600
60 cm	846	597	654	885	650	665

4.3. Package:

4.3.1. Material : PE bag (Shrink-pack)

4.3.2. Supporter : Polystrofoam / Wood

4.4. Weight:

4.4.1. Unpacked (kg) : 50,5 / 51,5 (with plastic door)
52,5 / 53,5 (with glass door)

4.4.2. Packed (kg) : 52,5 / 53,5 (with plastic door)
54,5 / 56 (with glass door)

4.5. Working Condition:

4.5.1. Temperature

Min. room temperature : 5° C

Max. room temperature : 35° C

4.5.2. Humidity : %95 RH

4.6. Electrical Specification:

4.6.1. Voltage (V / Hz) : 230-240 / 50-60

4.6.2. Power (W) : 800 / 900

4.6.3. Current (A) : 4

4.7. Power Cord:

4.7.1. Type : 3 x 1.5 mm^2 or 3x1.0mm^2 cord copper wire

4.7.2. Insulation : H05V2V2-F 3G1,5mm^2 / H05V2V2-F 3G1 mm^2

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H05VV-F 3G1,5mm^2 / H05VV-F 3G1 mm^2

4.7.3. Plug : Earthed, PVC moulded
4.7.4. Length (m) : 1,5 m

4.8. Motor (Used in HP Dryer with A+++ Energy Class):

4.8.1. Type : Brushless Direct Current (BLDC) Motor
4.8.2. Power (W) : max. 250
4.8.3. Motor speed (rpm) : 2800-3000
4.8.4. Drum speed (rpm) : 54-57
4.8.5. Insulation : F
4.8.6. Run capacitor : NA (Not Available)

4.9. Motor (Used in HP 54 cm A+ 7 kg Energy Class):

4.9.1. Type : 1 phase induction (Asynchronous) Motor
4.9.2. Power (W) : max. 250
4.9.3. Main Winding (ohm) : 25,5±5%@ 25C
4.9.4. Auxillary Winding(ohm) : 28±5%@ 25C
4.9.5. Motor speed (rpm) : 2850
4.9.6. Drum speed (rpm) : 53 ± 2
4.9.7. Insulation : F
4.9.8. Run capacitor : 9 µF ± %5

4.10. Motor (Used in HP Dryer with Eco A+++ / Super Eco A++ / 54cm A++ Energy Class):

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) : 2900
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

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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. Compressor (Used in HP Dryer with A+++ Energy Class):

4.13.1. Manufacturer / Model : LG / EA078PAB
4.13.2. Type : 1 phase asynchronous
4.13.3. Power (W) : 430
(71°C condensation temperature / 23°C evaporation temperature)
4.13.4. Cooling Capacity (W) : 1530
(71°C condensation temperature / 23°C evaporation temperature)
4.13.5. Current (A) : 2,05
4.13.6. Main Winding (ohm) : 11,01 ± %7
4.13.7. Auxillary Winding (ohm) : 6,78 ± %7
4.13.8. Insulation Class : E
4.13.9. Capacitor : 25 µF ± %5
4.13.10. Refrigerant Type / Amount : R134a / 450gr

4.14. Compressor (Used in HP Dryer with Super Eco A+ / A++ Energy Class):

4.14.1. Manufacturer / Model : GMCC RJSN82V2
4.14.2. Type : 1 phase asynchronous
4.14.3. Power (W) : 318
(54,4°C condensation temperature / 7,2°C evaporation temperature)
4.14.4. Cooling Capacity (W) : 970
(54,4°C condensation temperature / 7,2°C evaporation temperature)
4.14.5. Current (A) : 1,45
4.14.6. Main Winding (ohm) : 10 ± %7
4.14.7. Auxillary Winding (ohm) : 11,5 ± %7
4.14.8. Insulation Class : E
4.14.9. Capacitor : 15 µF ± %5
4.14.10. Refrigerant Type / Amount : R134a / 300 gr

4.15. Compressor (Used in HP Dryer with 54cm A+ Energy Class):

4.15.1. Manufacturer / Model : LG / EAB078PMA
4.15.2. Type : 1 phase asynchronous

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4.15.3. Power (W) : 457
(71°C condensation temperature / 23°C evaporation temperature)
4.15.4. Cooling Capacity (W) : 1561
(71°C condensation temperature / 23°C evaporation temperature)
4.15.5. Current (A) : 2,1
4.15.6. Main Winding (ohm) : 10,77 ± %7
4.15.7. Auxillary Winding (ohm) : 10,20 ± %7
4.15.8. Insulation Class : E
4.15.9. Capacitor : 20 µF ± %5
4.15.10. Refrigerant Type / Amount : R134a / 225 gr

4.16. Compressor (Used in HP Dryer with 54cm A++ Energy Class):
4.16.1. Manufacturer / Model : LG / EA078PAB
4.16.2. Type : 1 phase asynchronous
4.16.3. Power (W) : 430
(71°C condensation temperature / 23°C evaporation temperature)
4.16.4. Cooling Capacity (W) : 1530
(71°C condensation temperature / 23°C evaporation temperature)
4.16.5. Current (A) : 2,05
4.16.6. Main Winding (ohm) : 11,01 ± %7
4.16.7. Auxillary Winding (ohm) : 6,78 ± %7
4.16.8. Insulation Class : E
4.16.9. Capacitor : 25 µF ± %5
4.16.10. Refrigerant Type / Amount : R134a / 300 gr

4.17. Compressor (Used in HP Dryer with 54cm A+++ Energy Class):
4.17.1. Manufacturer / Model : GMCC / RJSN68V3
4.17.2. Type : 1 phase asynchronous
4.17.3. Power (W) : 250
(54,4°C condensation temperature / 7,2°C evaporation temperature)
4.17.4. Cooling Capacity (W) : 795
(54,4°C condensation temperature / 7,2°C evaporation temperature)
4.17.5. Current (A) : 1,15
4.17.6. Main Winding (ohm) : 12,71 ± %7
4.17.7. Auxillary Winding (ohm) : 11,33 ± %7
4.17.8. Insulation Class : E
4.17.9. Capacitor : 10 µF ± %5
4.17.10. Refrigerant Type / Amount : R134a / 320 gr

4.18. Compressor (Used in Eco A+++ HP Dryer):
4.18.1. Manufacturer / Model : GMCC/ RJSN68V2
4.18.2. Type : 1 phase asynchronous

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4.18.3. Power (W) : 268
(71°C condensation temperature / 23°C evaporation temperature)
4.18.4. Cooling Capacity (W) : 805
(71°C condensation temperature / 23°C evaporation temperature)
4.18.5. Current (A) : 1,25
4.18.6. Main Winding (ohm) : 12,5 ± %5
4.18.7. Auxillary Winding (ohm) : 9,74 ± %5
4.18.8. Insulation Class : E
4.18.9. Capacitor : 15 µF ± %5
4.18.10. Refrigerant Type / Amount : R134a / 530 gr

4.19. Compressor Cooling Fan:
(Used in HP Dryer with A+++ & A++ & A+ Energy Class)
4.19.1. Manufacturer / Model : NMB & MAT 4715MS – 23T – B50
4.19.2. Type : Shaded Pole Asynchronous
4.19.3. Power (W) : 15
4.19.4. Winding Resistance (ohm) : 675
4.19.5. Rotational Speed (rpm) : 2600 / 2900
4.19.6. Insulation Class : B

4.20. Compressor Cooling Fan:
(Used in HP Dryer with A++ Energy Class)
4.20.1. Manufacturer / Model : X-Fan & RAH1238S1
4.20.2. Type : Shaded Pole Asynchronous
4.20.3. Power (W) : 26
4.20.4. Winding Resistance (ohm) : 735
4.20.5. Rotational Speed (rpm) : 2600 / 3000
4.20.6. Insulation Class : B

4.21. Door & Compressor NTC:
Door & Compressor NTC (ohm) : 12.000 ohm @ 25°C

4.22. Body:
4.22.1. Material : Sheet metal
4.22.2. Finish : Acrylic powder paint

4.23. Drum:
4.23.1. Material : Stainless Steel - Aquawave
4.23.2. Volume (lt) : 118
4.23.3. Drum speed (rpm) : 54-57
4.23.4. Front door opening (mm) : 395x320
4.23.5. Process air flow (m3/h) : 315

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4.23.6. Maximum loading Capacity:

Cotton(kg)	: 7 / 8
Delicate, Synthetic (kg)	: 3,5 / 4

4.24. Control System Specifications:

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

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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.

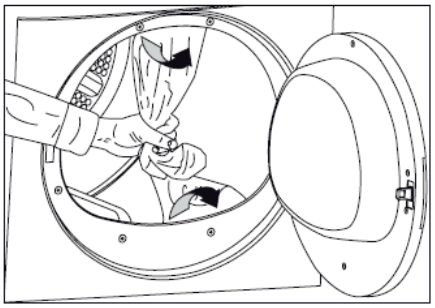
	**CAUTION:** Do not place the product on top of the power cord.

5.2. Removing the Transportation Safety Assembly:

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CAUTION: Remove the transportation safety assembly before using the product for the first time.

- 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.

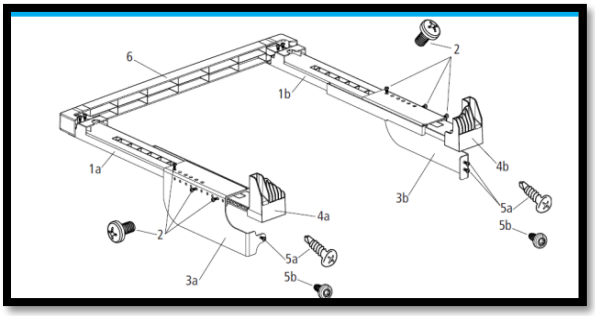


CAUTION: Check that no part of the transportation safety assembly remains inside the drum.

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

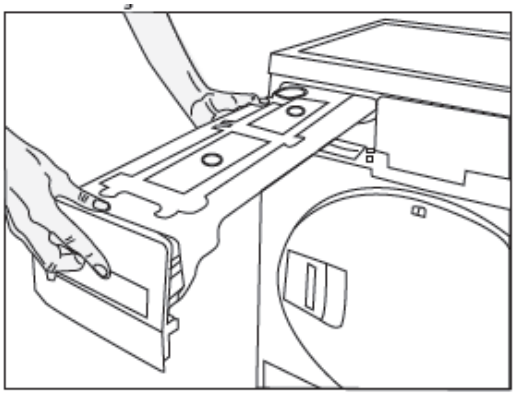


- In the above table, the stock numbers of the appropriate stacking kits for the specified coloured dryer models are given. For the other types of coloured dryer models, the stock numbers of the stacking kits can differ from the table above. For these cases, please contact with the Authorized Service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

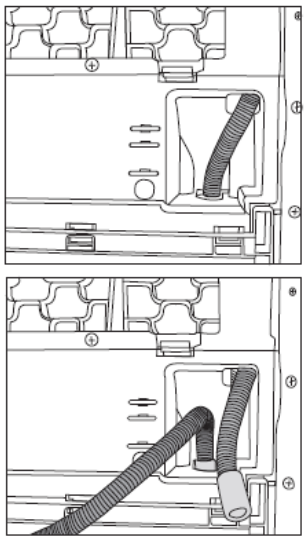
5.4. Connecting to the Drain:

Sensitivity: Public

- 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:

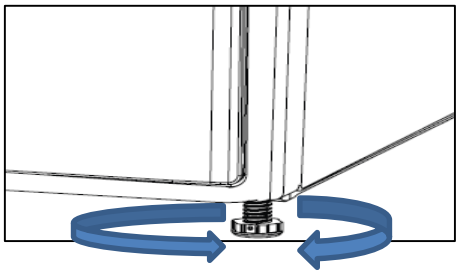
- Pull hose in the product by hand in order to disconnect it from where it is connected. Do not use any tools to remove the hose.
- Connect one end of the drain hose supplied separately with the product to the connection point from where you removed the hose of the product in previous step.
- Connect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

Sensitivity: Public

	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.

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.

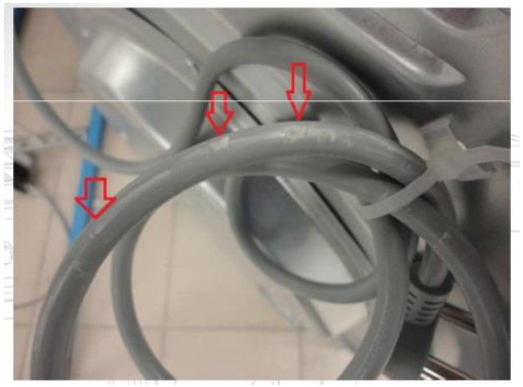
- Connection must comply with national regulations.
- Power cable plug must be within easy reach after installation.
- The voltage and allowed fuse or breaker protection are specified in the “Technical specifications” section in the user manual. If the current of the fuse is less than 10 Amperes, please 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.

Sensitivity: Public



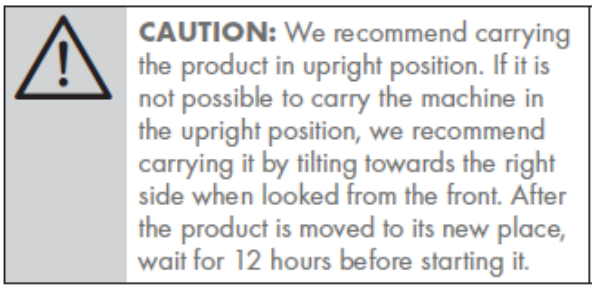
Inapproriate Extension Cable Usage

- 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:

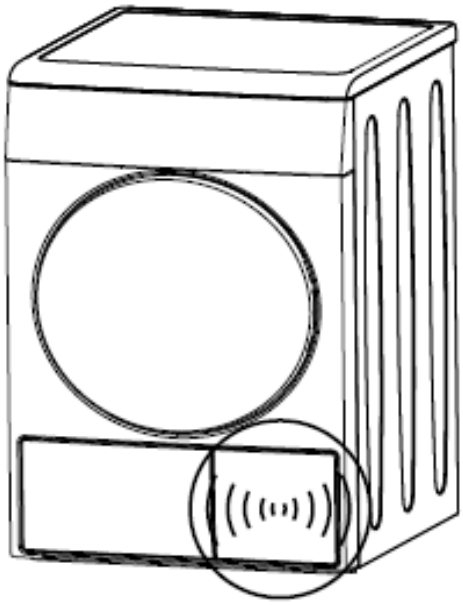
- Unplug the product before transporting it.
- Remove the water drain (if any) and chimney connections.
- Drain the water in the product completely.



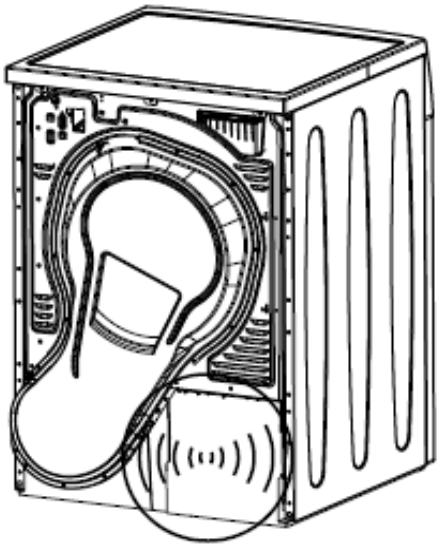
5.8. Warnings related to sound:

Sensitivity: Public

It is normal to hear a metallic noise sometimes from the compressor during operation.



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



Sensitivity: Public

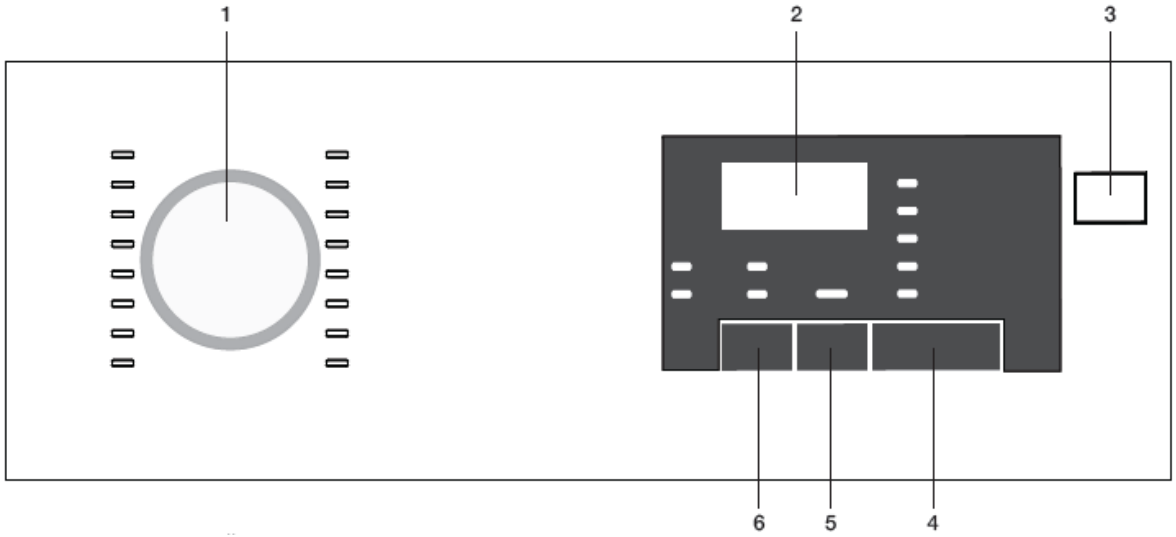
6. Operating the Product:

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:

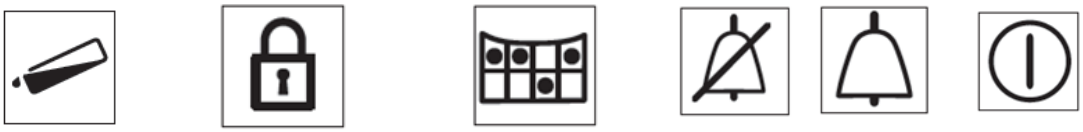


1. Programme Selection Knob
2. Remaining Time Display
3. On/Off/Cancel Button
4. Start/Pause Button
5. End Time Setting Selection Button
6. Audio Warning Level Button

Figure 6.1 Control Panel Buttons

6.3. Display Symbols:

Sensitivity: Public



Water Tank Warning Symbol | Child Lock Warning Symbol | Filter Cleaning Warning Symbol | Audio Symbol | On-Off Warning Symbol

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).

> **Pressing the On/Off/Cancel** button does not necessarily mean the programme has started. Press **Start/ Pause** button to start the programme.

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.

> For further programme details, see, "Programme selection and consumption table".

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.

Sensitivity: Public

6.6. Main programmes:

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

- **Cottons:**

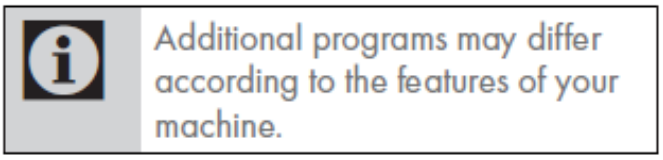
Dry durable laundry with this programme. Dries at normal temperature. It is recommended to use for your cotton items (bed sheets, quilt covers, towels, bathrobes, etc.).

- **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.

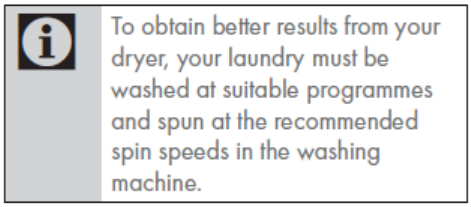


- **Bedding:**

- Dry fiber quilts with 'machine-dryable' label only. Make sure you are loading the quilt in the correct way to avoid damages on the machine and the quilt. Take out the quilt cover before loading the quilt in the machine. Fold the quilt in two before loading.

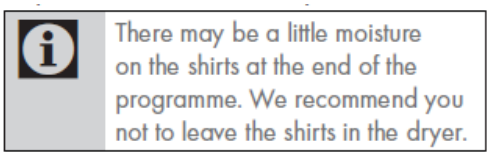
- Do not load more than 1 double-size fiber quilt (200x200 cm). Do not dry items containing cotton such as quilts, pillows and etc.

- Do not dry items other than quilts such as carpets, rugs or mats. Permanent damage may arise in your machine.



- **Shirt:**

This programme dries the shirts more sensitively and creases them less and thus, helps to iron them more easily.



- **Jeans:**

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

- **Mixed:**

Sensitivity: Public

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.

- **Wool refresh:**

Use this programme to ventilate and soften the woolen laundry that can be washed in the washing machine. Do not use to dry the laundry completely. Take out and ventilate the laundry immediately after the programme is over.

- **Daily:**

This programme is used to dry cottons and synthetics daily.

- **Shirt 30':**

Use this programme to make 2 shirts ready for ironing in 30 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:**

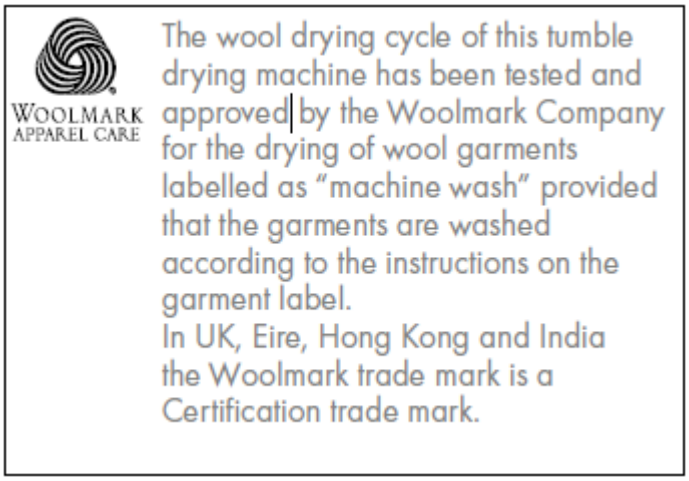
You can select one of the 10 min., 20 min., 30 min., 40 min., 50 min., 60 min., 80 min., 100 min., 120 min., 140 min. and 160 min. timer programmes to achieve the desired final drying level at low temperatures.

With this programme, the machine dries for the time selected regardless of the dryness level.

Sensitivity: Public

- **Wool Protect:**

Use this programme to dry woolen garments such as jumpers that are washed according to the instructions. It is recomended that garments would be removed at the end of the programme.



Sensitivity: Public

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	160
Cupboard dry	8	1000	% 60	145
Iron dry	8	1000	% 60	115
Shirt 30'	0.5	1200	% 60	30
Shirt	1.5	1200	% 50	40
Jeans	4	1200	% 50	100
Bedding	2.5	1000	% 40	120
Mixed	4	1000	% 60	150
Sport	4	1000	% 60	90
Daily	4	1200	% 50	80
Delicates	2	600	% 40	50
Wool refresh	1.5	600	% 50	8
Synthetics				
Cupboard dry	4	800	% 40	60
Iron dry	4	800	% 40	45
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	1.92
Iron dry for cottons	8	1000	% 60	1.50
Cupboard dry for synthetics	4	800	% 40	0.75

Table 6.1 Programme selection and consumption table:

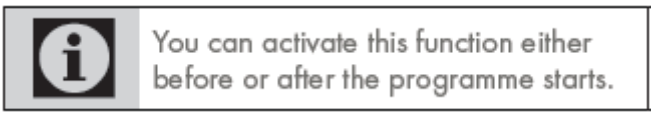
All values given in the table have been fixed according to EN 61121:2012 Standard. This table is given as a reference. These values may deviate from the values in the table according to the laundry type, laundry spin speed, environmental conditions, voltage fluctuations and also the model of the dryer.

Sensitivity: Public

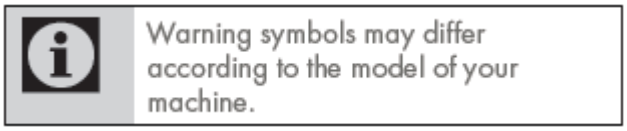
6.9. Auxiliary functions:

6.9.1. Audio Warning:

The machine will give an audio warning when the programme comes to an end. Use the **Audio Warning Symbol** button to cancel the audio warning.

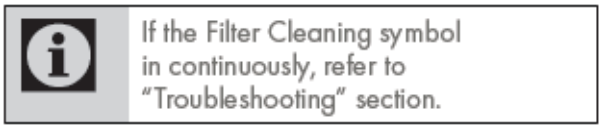


6.10. Warning symbols:



6.10.1. Lint filter cleaning:

When the programme is completed, a warning led will light up to remind that the filter needs to be cleaned.



6.10.2. Water tank:

When the programme is completed, a warning led will light up to remind that the water tank needs to be drained. If the water tank becomes full while the programme is running, the warning led will start to flash and machine will pause. Drain the water in the water tank and press **Start / Pause** button to resume the programme. The warning led turns off and the programme resumes operating.

6.10.3. Loading door is open:

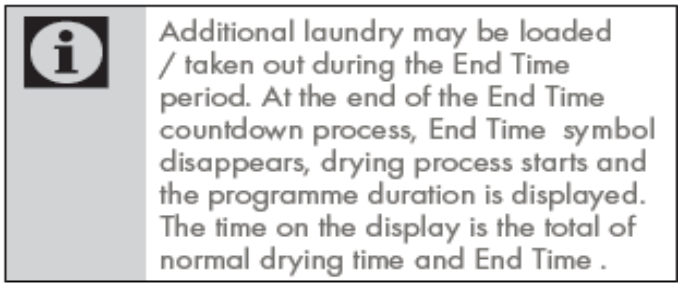
When the loading door is open while the program is running, start / pause led flashes.

Sensitivity: Public

6.11. End Time Setting:

End Time Setting 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.
- Press **End Time Setting** selection button to set the desired End Time. **End Time Setting** led lights up.(When the button is pressed and hold, End Time proceeds uninterruptedly).
- Press **Start/Pause** button. **End Time Setting** starts to count down and Start symbol appear on the display. The ":" in the middle of the displayed **End Time Setting** will start to flash.



6.11.1. Changing the End Time:

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 Time procedure for the desired time.
- Machine starts with the declaration programme (wardrobe dryness for cottons).

6.11.2. Canceling End Time Function:

If you want to cancel the End Time 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 and Drying led** that indicate the startup of the program lights up. The ":" in the middle of the screen will continue flashing.

Sensitivity: Public

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 Audio Warning Cancel and End Time Setting 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 buttons for 3 seconds again **to deactivate the Child Lock**.

Lock symbol will appear on the display when the Child-proof Lock is activated.

Child-proof Lock is deactivated when the machine is switched off and on with **On/Off/Cancel** button.

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:

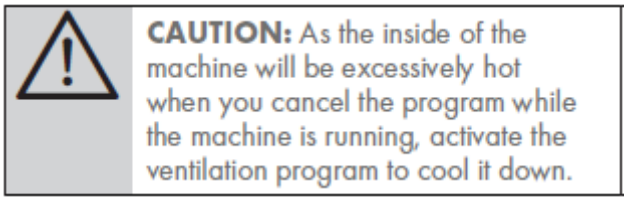
- Press Start/Pause button to switch the machine to Pause mode. Drying process will stop.
- While in Pause mode, open the loading door, add or take out laundry and close the loading door.
- Press the Start/Pause button to start the program.

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.

Sensitivity: Public

6.16. Canceling the programme:

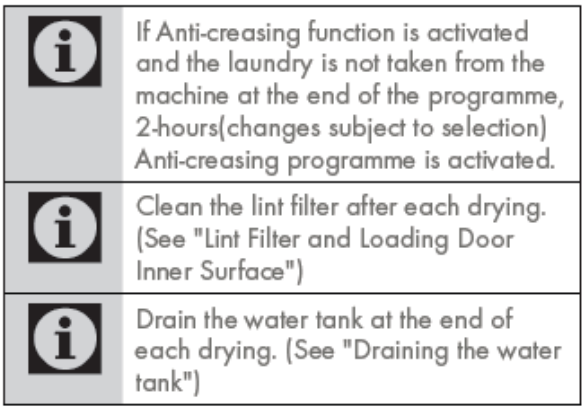
If you want to stop drying and cancel the programme for any reason after the machine has started to run, press and hold the **On/Off/Cancel** button for 3 seconds.



CAUTION: As the inside of the machine will be excessively hot when you cancel the program while the machine is running, activate the ventilation program to cool it down.

6.17. End of Programme:

End/AntiCreasing, Lint Filter Cleaning and Water Tank warning leds light up in the programme follow-up indicator when the programme comes to an end. The loading door can be opened and the machine becomes ready for a second cycle. Press **On / Off / Cancel** button to switch 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")

Sensitivity: Public

7. Maintenance and Cleaning:

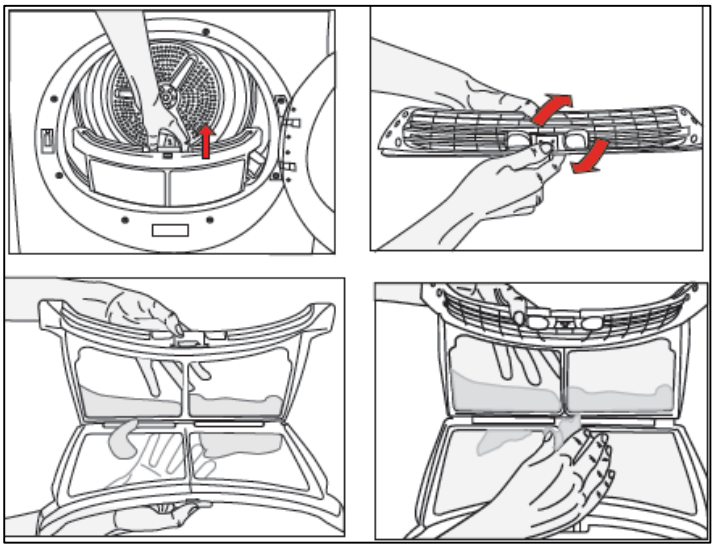
7.1. Lint Filter / Loading Door Inner Surface:

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.

Sensitivity: Public

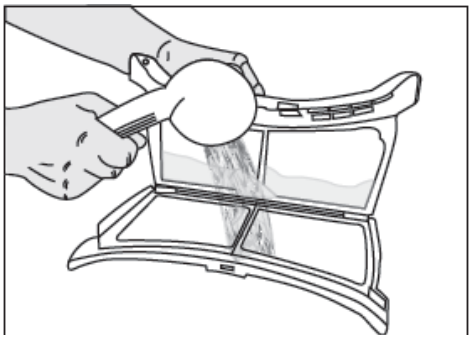


Figure 7.2 Washing the Lint Filter

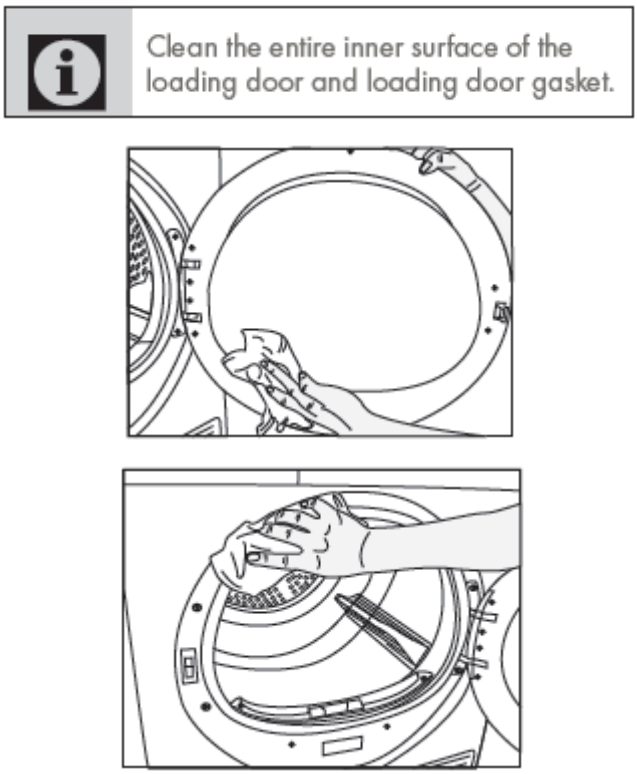


Figure 7.3 Cleaning the Loading Door Inner Surface

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.

Sensitivity: Public

	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!

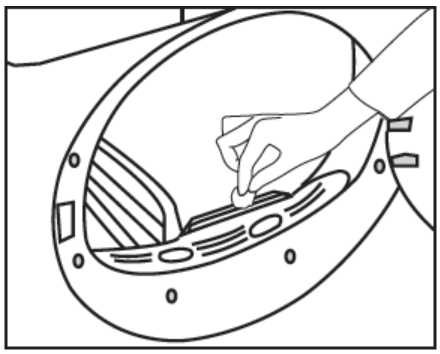


Figure 7.4 Cleaning the Sensors

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.

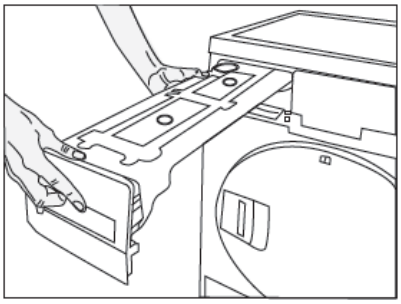
	CAUTION: Condensed water is not drinkable!
	CAUTION: Never remove the water tank when the program is running!

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.

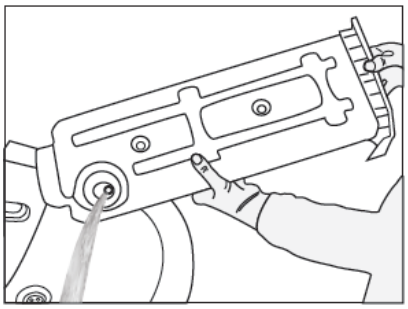
Sensitivity: Public

To drain the water tank:

- Pull the drawer and remove the water tank carefully.



- Drain the water in the tank.



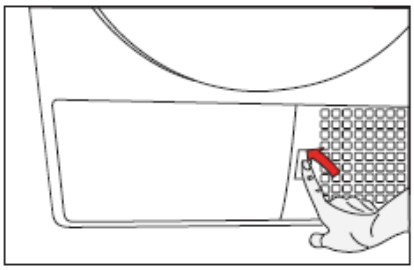
- If there is lint accumulation in the funnel of the water tank, clean it under running water.
- Place the water tank into its seat.

7.4. Cleaning the filter drawer:

Lint and fiber that could not be captured by the lint filter are blocked in the filter drawer behind the kick plate. Filter Drawer Cleaning warning light will light up maximum at every 5 or 3 drying cycles as a reminder. There is a two-level filter in the filter drawer. The first level is the filter drawer sponge and the second level is the filter cloth.

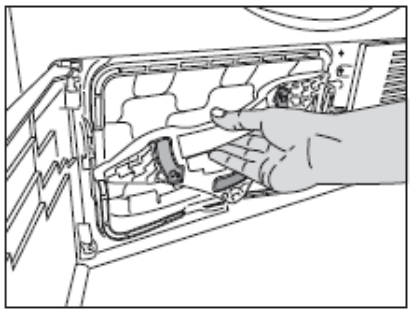
To clean the filter drawer:

- Press the kick plate button to open the kick plate.

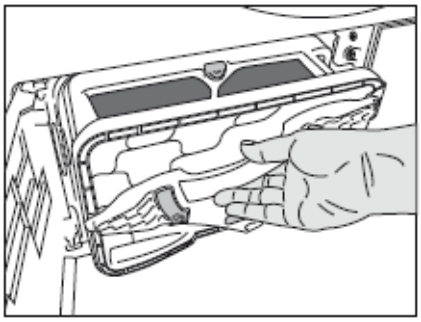


Sensitivity: Public

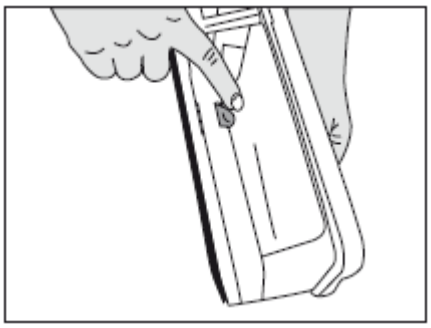
- Remove the filter drawer cover by turning it in the direction of arrow.



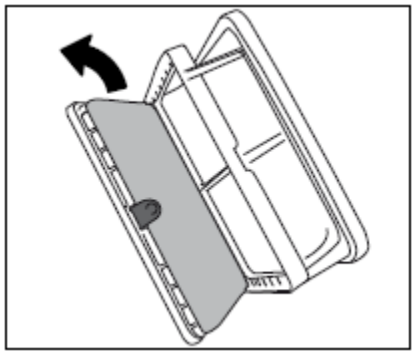
- Pull out the filter drawer.



- Open the filter drawer by pressing the red button.



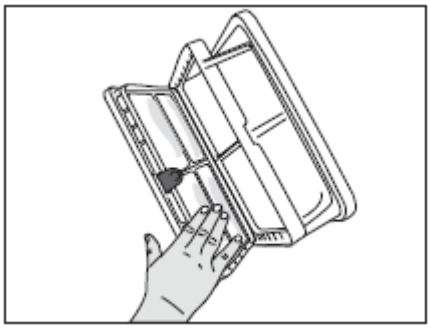
- Take out the filter drawer sponge.



- Clean lint, fiber, and cotton raveling on the filter cloth by hand or with a soft piece of cloth.

Sensitivity: Public

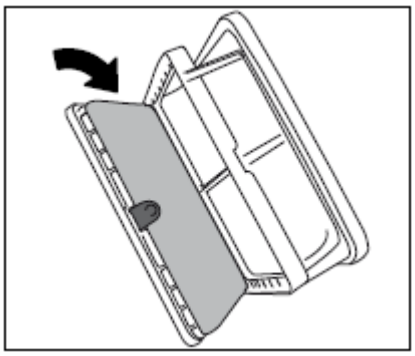
When you notice a layer that may lead clogging on the filter cloth, please clean the layer by washing in warm water. Let the filter cloth dry thoroughly before installing back the filter drawer.



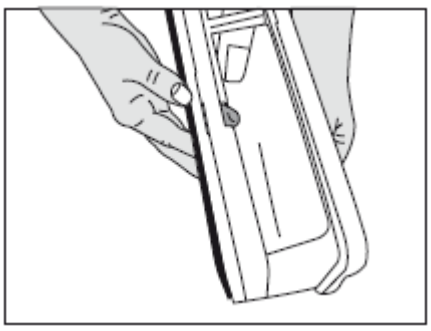
- Wash the filter drawer sponge by hand to remove the fiber and lint on the surface. After washing the sponge, squeeze it by hand and remove the excess water.

It is not necessary to clean the sponge if lint and fiber accumulation on it is not significant.

- Place the sponge back into its place.

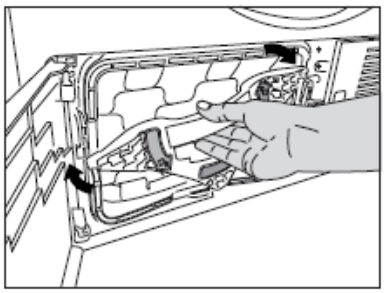


- Close the filter drawer as to lock the red button.

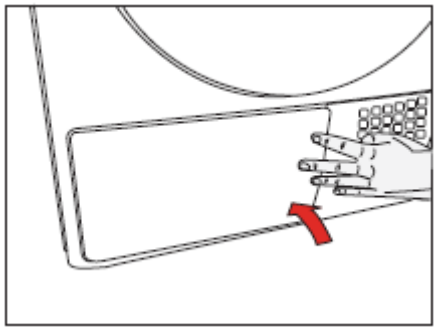


- Place the filter drawer back into its place, turn the filter drawer cover in the arrow direction and close it securely.

Sensitivity: Public



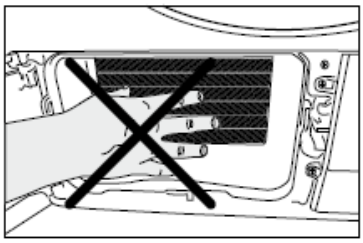
- Close the kick plate cover.



⚠	**CAUTION:** Drying without the filter drawer sponge in place will damage the machine!
ⓘ	A dirty lint filter and filter drawer will cause longer drying periods and higWher energy consumption.
ⓘ	A layer can build up on the filter pores that can cause clogging of the filter after using your 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 filter completely before using it.

7.5. Cleaning the evaporator:

Clean the lint accumulated on the fins of the evaporator located behind the filter drawer with a vacuum cleaner.



⚠	**CAUTION:** You can also clean by hand provided that you wear protective gloves. Do not attempt to clean with bare hands.

8. General Working Principle:

Sensitivity: Public

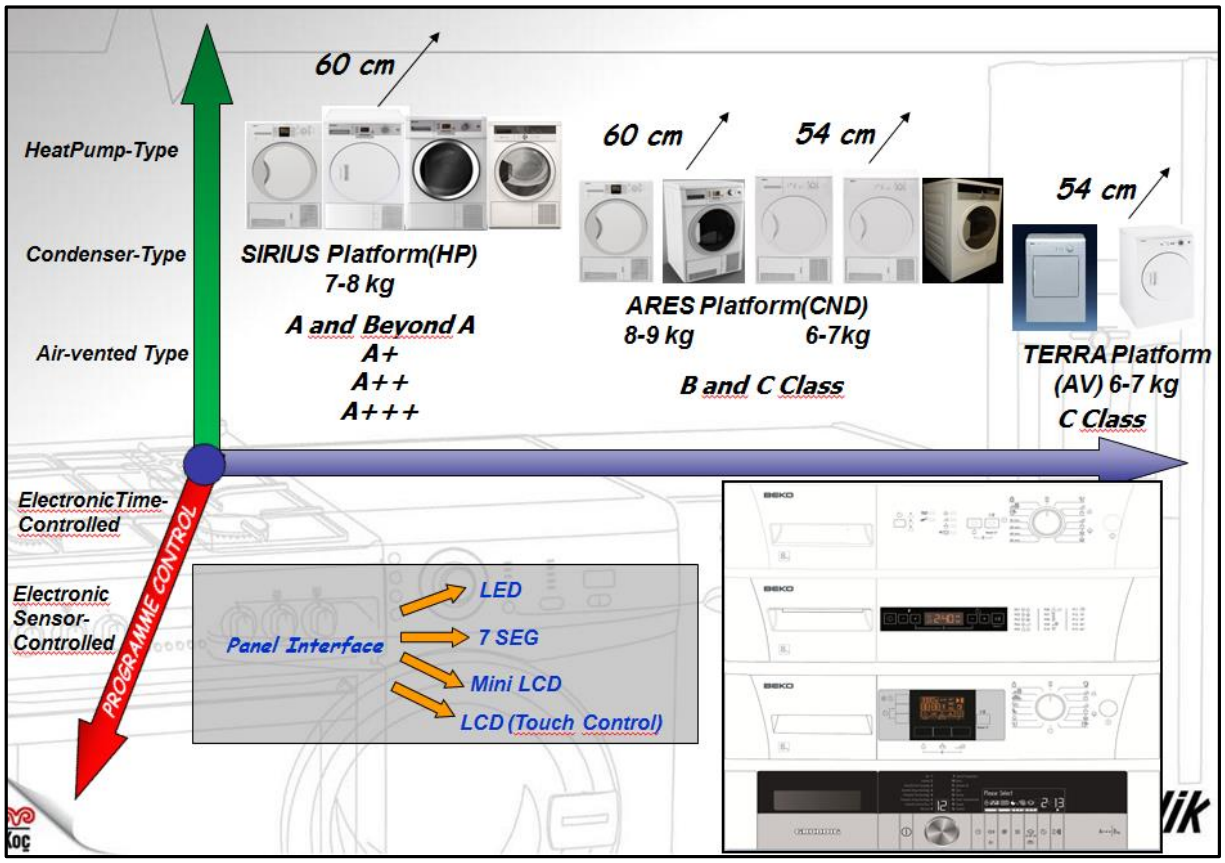


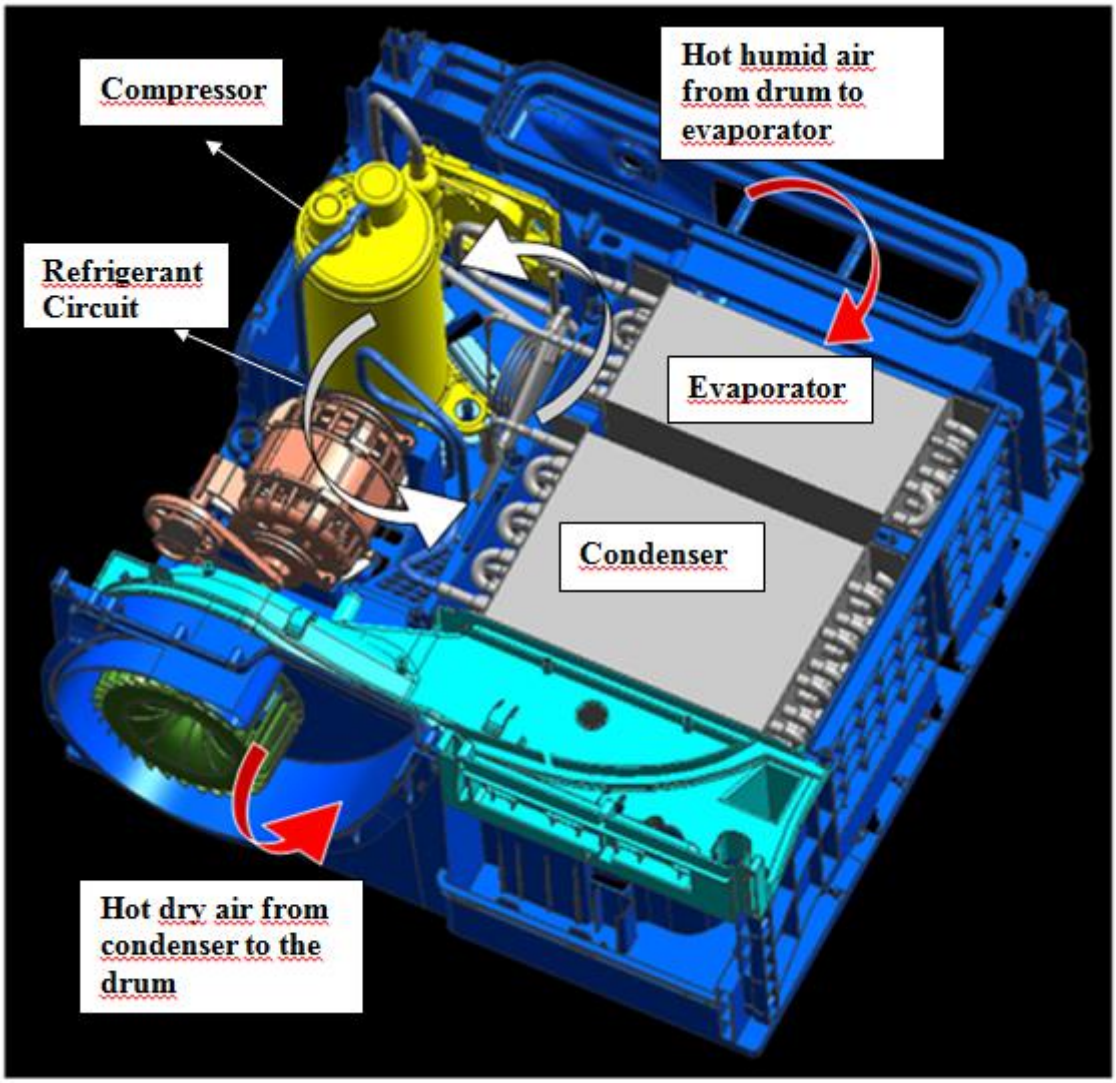
Figure 8.1. Tumble Dryer Product Specification

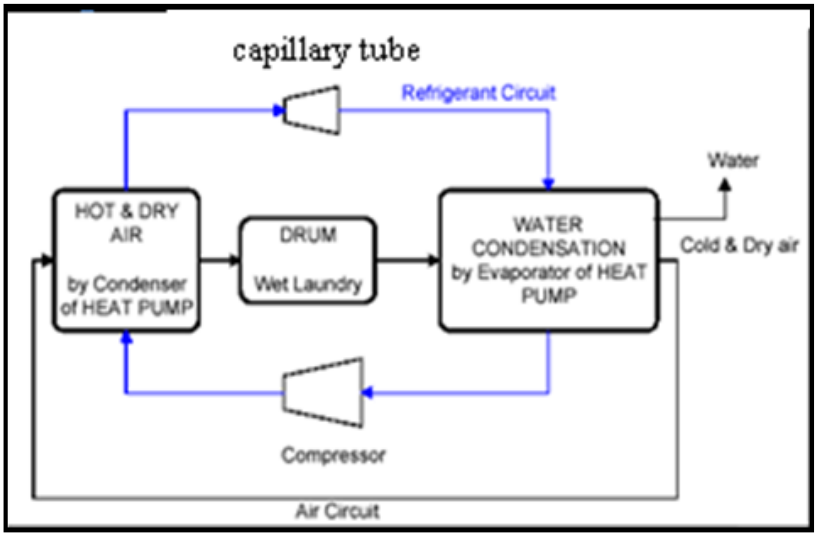
Sensitivity: Public

8.1. Heat Pump Dryer Working Principals:

The heat pump system is consisted of a compressor that pumps the refrigerant which transports the heat energy (**refrigerant circuit in the picture below**). The refrigerant is in vapor phase when it enters the hot heat exchanger so called condenser. The hot refrigerant is used to heat up the air by the condenser of the heat pump system. By giving its heat energy, the refrigerant cools down so that it is condensed, and leaves the condenser in liquid phase. The temperature of the refrigerant in the condenser of the heat pump system is decreasing from 90°C to 60°C in normal room conditions. After leaving the condenser, the refrigerant passes through a capillary tube that makes the refrigerant temperature even less, around 25°C. Then the refrigerant enters the cold heat exchanger so called evaporator. The refrigerant in the evaporator cools down the humid and hot air and the liquid refrigerant becomes vapor after getting energy and heating up to 35° C when it leaves and reenters the compressor. Besides that, the humid and hot air condenses in the evaporator, the water is collected and pumped to the water tank.

Sensitivity: Public





Since the temperature of the air that is used to dry the laundries is maximum around 70°C, the air leaves the drum at 45°C, which are almost half of the temperature of the air used in

conventional. Due to air vented and condenser dryers, the heat pump dryers are more safer and gentile to laundry compared to conventional dryers. There are much lower risk of hot air injury when you open the door of the dryer while it is working to put extra items in it. The temperature of the cabinet is also much lower. Better drying efficiency within similar program times with lower temperatures is a visible indicator of the energy efficiency of the system.

8.2. Components Related to the Drying Cycle:

Sensitivity: Public

8.2.1. Temperature Sensor (NTC) :

Two NTC temperature sensor are used on electronic controlled dryers, one is located after the door filter in air suction channel, other is located on the copper tube at the outlet of the condenser. 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.

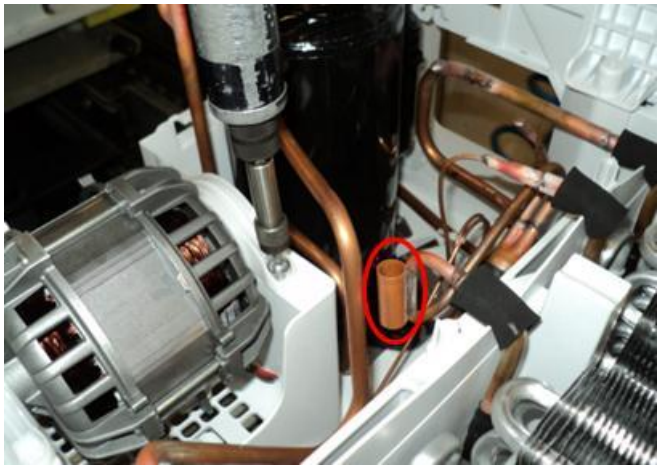


Figure 8.2. NTC located on the outlet of the condenser



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

8.2.2. 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.

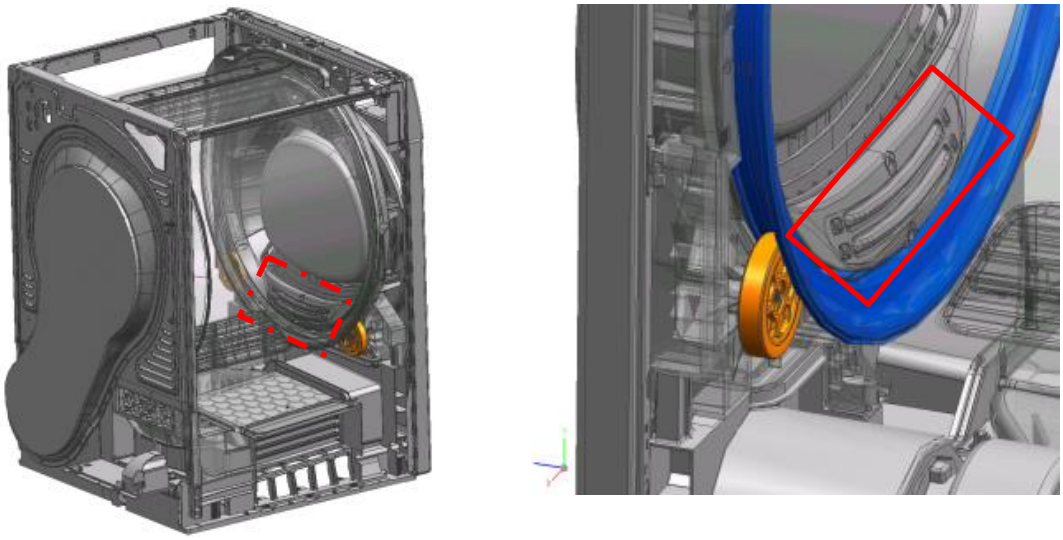
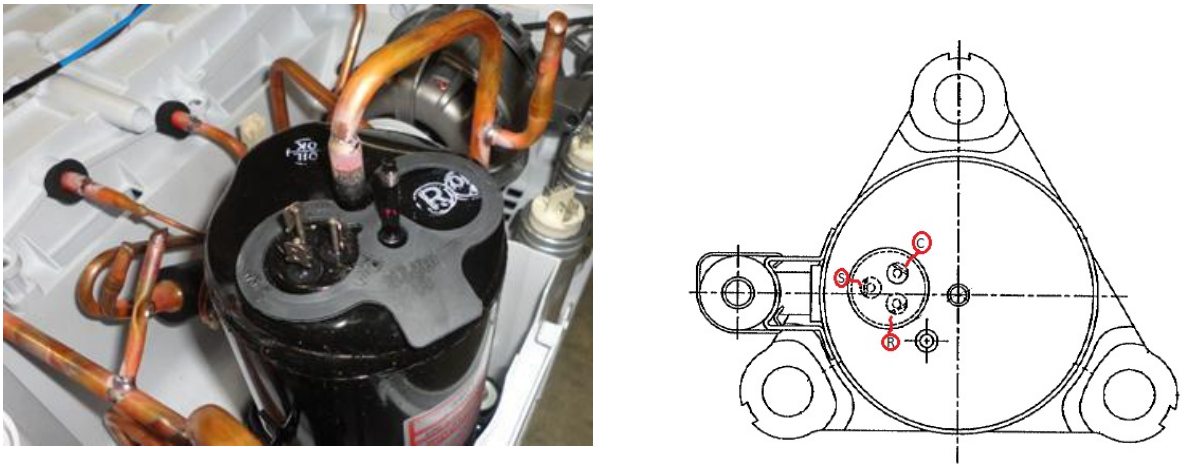


Figure 8.4. Humidity Sensor

8.2.3. Compressor (Rotary):

Heat pump system gets its energy from compressor. Rotary type compressor pressurizes the refrigerant and circulates it in heat exchangers. Compressor electrical input power is between 400W and 700 W due to the working conditions. Compressor has an overload protector which is sensitive both for Temperature and Current. The compressor has 1 phase asynchronous motor. *The technical specifications of the related compressors are given in the section 4.*



8.5. Rotary Type Compressor

8.2.4. Door Lock:

Sensitivity: Public

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.

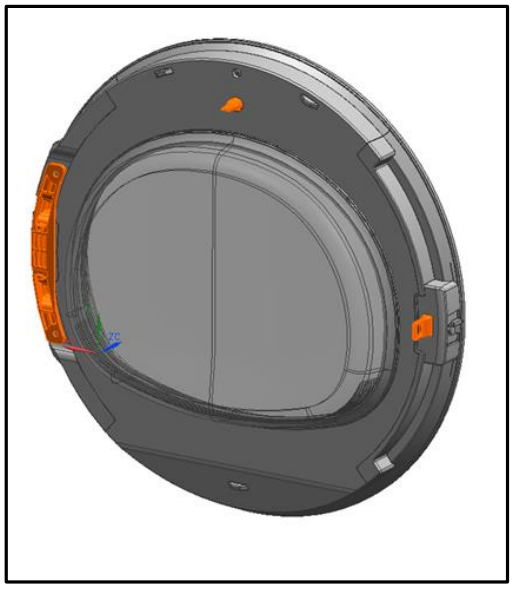


Figure 8.6. Door Lock

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 9µF 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. Asynchronous motor is used in the models of energy class A+ and A++ (A-50%).

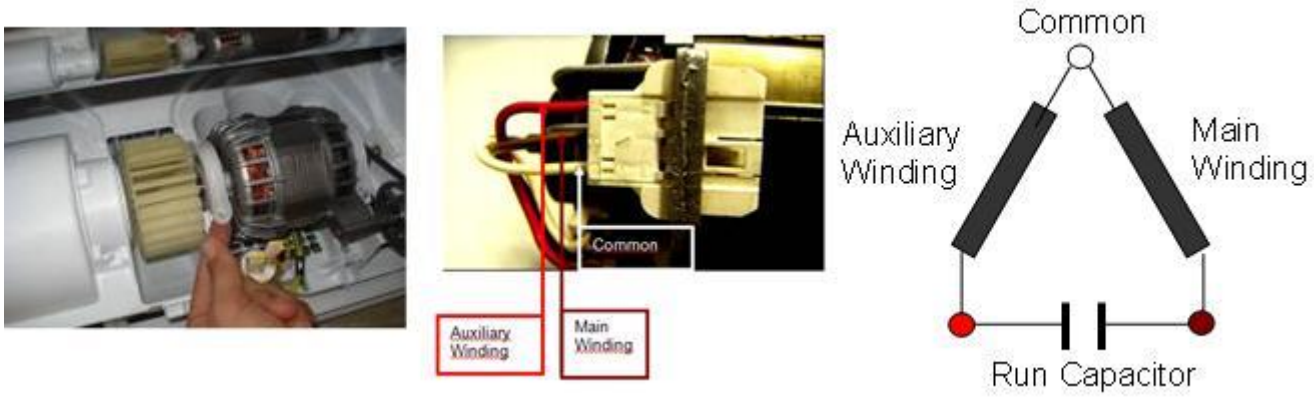


Figure 8.7. Asynchronous Motor

In the heat pump models with energy class of Eco A++, A+++ and A+++-10% 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.

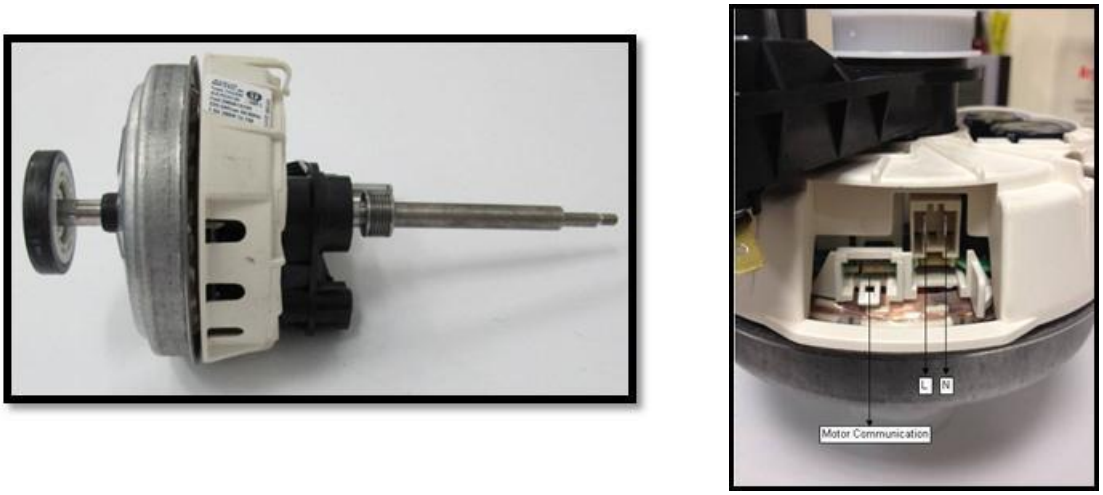


Figure 8.8. BLDC Motor

Sensitivity: Public

9. Electronic Components:

9.1. Electronic Card Assembly:

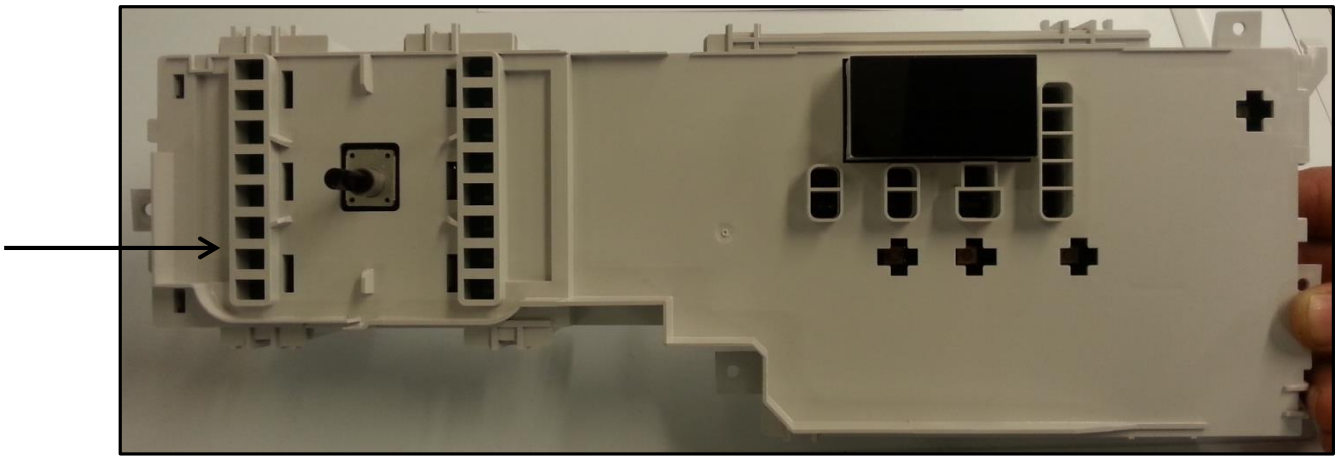
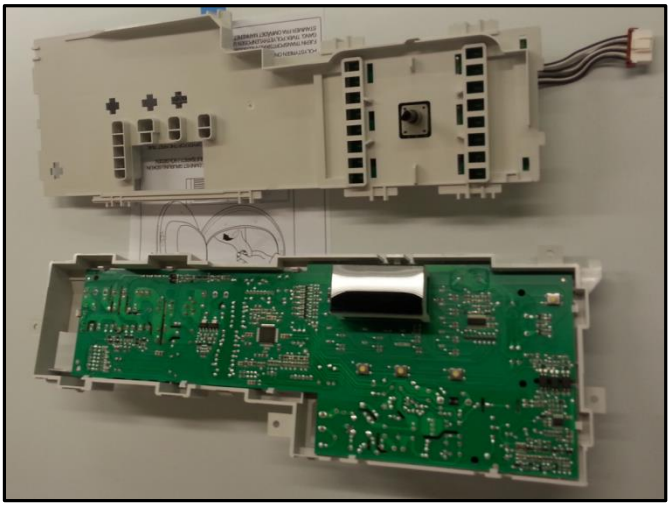


Figure 9.1. The Main Board Assembly



Beko 2013



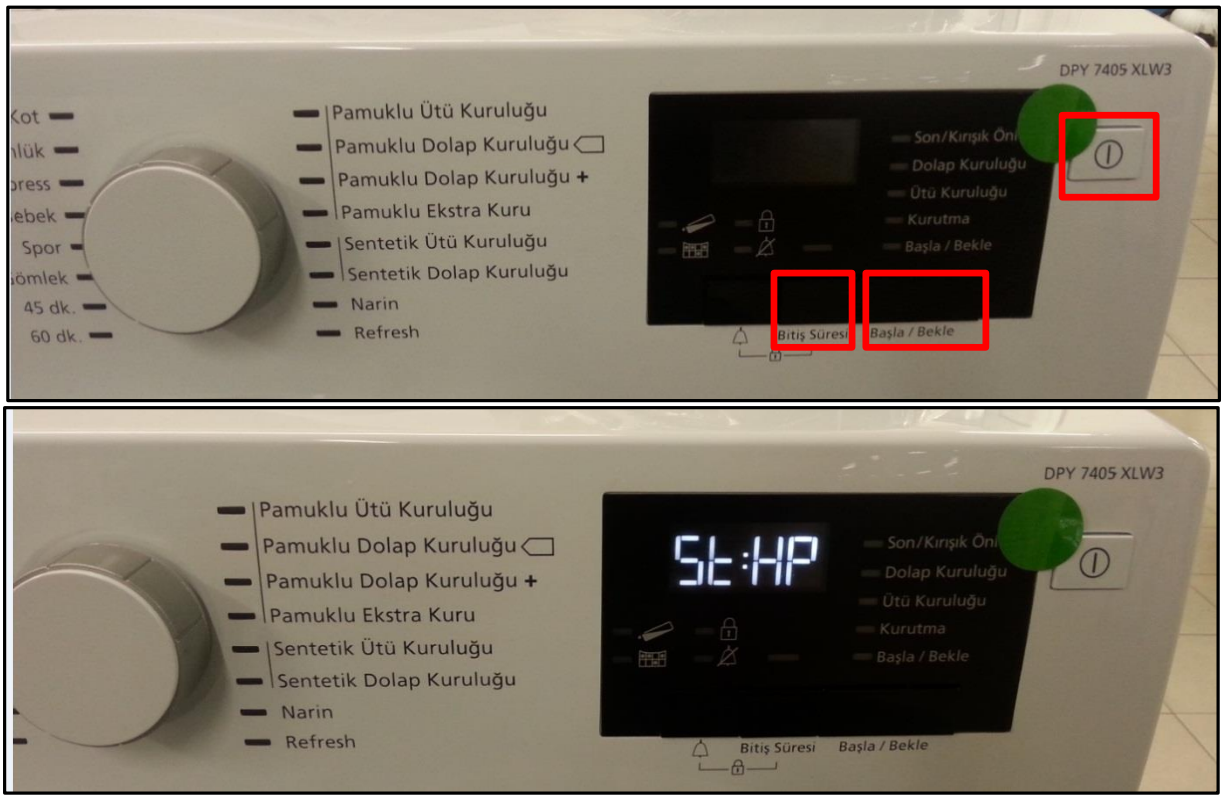
Rotary PCB
(Beko 2013 Good+ Models)

Good+ Heat Pump 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.

Sensitivity: Public

10. Service Test Program:

Step 1: Press the end time setting selection and start/pause button at least 1 sec, then press the On/Off/Cancel button 3 seconds, these combination will start service test program. In this program start/pause button is used to pass other steps. When the service test starts, St:HP appears on the display. Buzzer sounds long. If the end time selection and start/pause buttons are pressed longer than 5 sec, service test program will not start even if on/off/cancel button is pressed.

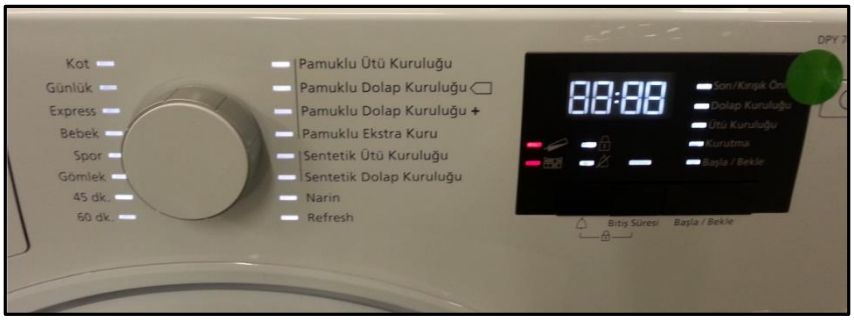


Step 2: Start/pause button is pressed, product software version ("XA:YY") appears on the display. The capacity and the energy class of the heat pump dryer can be mentioned by the software code. A=Normal system, E=Eco system (54cm HP and Super Eco compressor products) **(e.g. 7E:50 means 7 kg A-50% (A++ Eco), 7A:63 means 7kg A-63% (A+++) energy class heat pump dryer)**

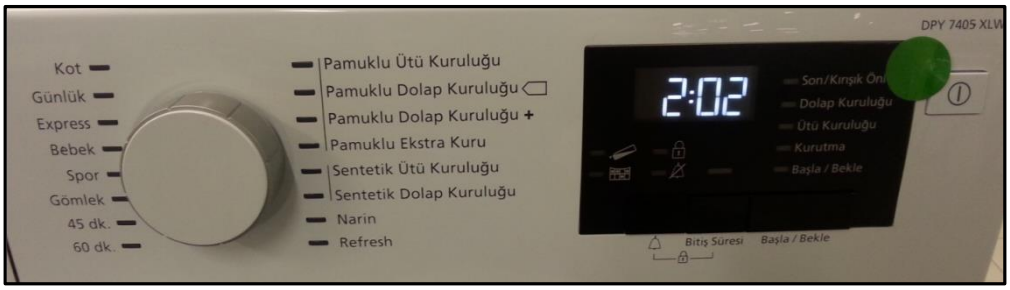


Sensitivity: Public

Step 3: Start/pause button is pressed, all leds, segments on the display and around the program selection knob light for 500ms. **“88:88”** appears on the display. Buzzer sounds “error/warning”.



Step 4: Start / Pause button is pressed. The software version (ORION) of the mainboard (**A:XX**) appears on the display.



Step 5: Start/pause button is pressed, all leds, segments on the display and around the program selection knob light. Buzzer sounds “error/warning”. **“88:88”** appears on the display.



Step 6: Start / Pause button is pressed. The values of the compressor NTC (nt02) and door NTC (nt01) are shown on the display.
If NTC and Voltage Error occurs, **“Err:or”** appears on the display and the service test cannot be passed to the next steps.





Step 7: Start/pause/cancel button is pressed. The compressor cooling fan activates,"**Fn On**" appears on the display. The fan should be controlled whether it suctions or not.



When the FAN starts to run, the power consumption of the FAN motor is 20W-40W @ 230V A.C. (0,08A - 0,18A)

Step 8: Start/Pause button is pressed. The pump activates, **"Pu:nP"** and **"Pu:On"** appears on the display for 500ms respectively. If the power socket of the overflow microswitch is not connected, the water tank led blinks for 500ms and **Pu:nP, Pu:Er** appears on the display respectively for 500ms. Buzzer sounds beep-beep and step can not be passed. When the power socket of the overflow microswitch is connected, water tank led disappears and "**Pu:On**" apeears on the display. When the pump activates, the power consumption of the pump is 10W-20W @ 230V A.C. (0,04A – 0,1A)





Step 9: Start / Pause button is pressed. Motor rotates clockwise and **"dr:rr"** appears on the display. Buzzer sound beep-beep and step can not be passed in first 3 sec. Service test can be passed to next step by pressing Start/Pause button.
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.



Sensitivity: Public

Step 10: Start / Pause button is pressed. Motor goes on rotating CW. **"hu:nd"** appears on the display. Make the sensor short circuit by touching the sensor plate (As soon as the door is opened, motor stops and lamp lights). Buzzer sounds and **"Sc:on"** appears on the display (buzzer sounds until step passed). The front door is closed(motor rotates CW and lamp goes out). Step can be passed by pressing Start/Pause button. (First 3 sec, Start/Pause is not detected, buzzer sounds beep-beep). If the value does not appear in the display for 10 sec., it indicates an error and "Sc:Er" appears in the display. Step can not be passed, buzzer sound beep-beep. Lamp must be go out as soon as the door is closed.



Important note: *At step 10, 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 11: Start / Pause button is pressed. All the components are turned off and "**St:OP**" appears on the display. First 3 sec, Start/Pause is not detected, buzzer sounds beep-beep.



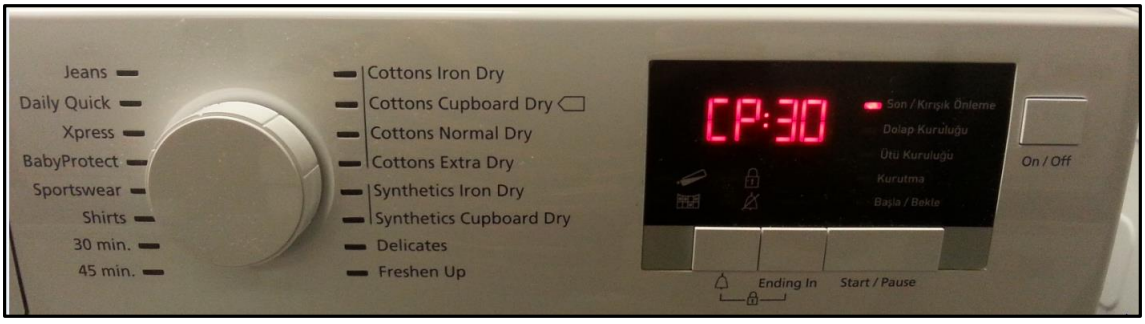
Step 12: Start / Pause button is pressed. Motor rotates CW and "**hu:nd**" appears. This is the open circuit control step of humidity sensors. Drum should be empty in that step in order to

avoid to touch the sensor plates. If the humidity sensor 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. Motor stops, compressor starts to run, and **CP:XX** appears on the display. ("XX" indicates temperature of compressor C°) NTC value increases until the compressor NTC reaches its limit. Temprature rise may take 10-15 minutes long according to ambient temperature. The compressor of the models with the energy class of A+, S.Eco A+/A++ , 54cmHp A+/A++ stops when the compressor NTC temperature value reaches to 55°C. The compressor of the models with the energy class of A++ and A+++ stops when the compressor NTC temperature value reaches to 50°C. Compressor counts during working. Without completion of compressor step, pressing Start/Pause button does not pass the step and buzzer sounds. When NTC shows desired value, compressor and timer stops, "CP:on" and time "XX:XX" (mm:ss) appears alternately on the display. If the step is successful, Start/Pause button is pressed for the next step.



When the compressor NTC value reaches the upper limit, **"Cp:on"** appears on the display. The compressor of the models with the energy class of A+ and A++ draws a current between 1,2A – 2,5A @ 230V, and the compressor of the models with the energy class of A+++ draws a current between 1,0A – 2,0A @ 230V.

Step 14: Start / Pause button is pressed. Motor rotates counter-clockwise (CCW) and **"dr:LL"** appears on the display. When the asynchronous motor rotates CCW, it draws a current between 0,65A - 1,2A @ 230V; when the BLDC motor rotates CCW, it draws a current between 0,65A - 1,45A @ 230V.

Sensitivity: Public



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.

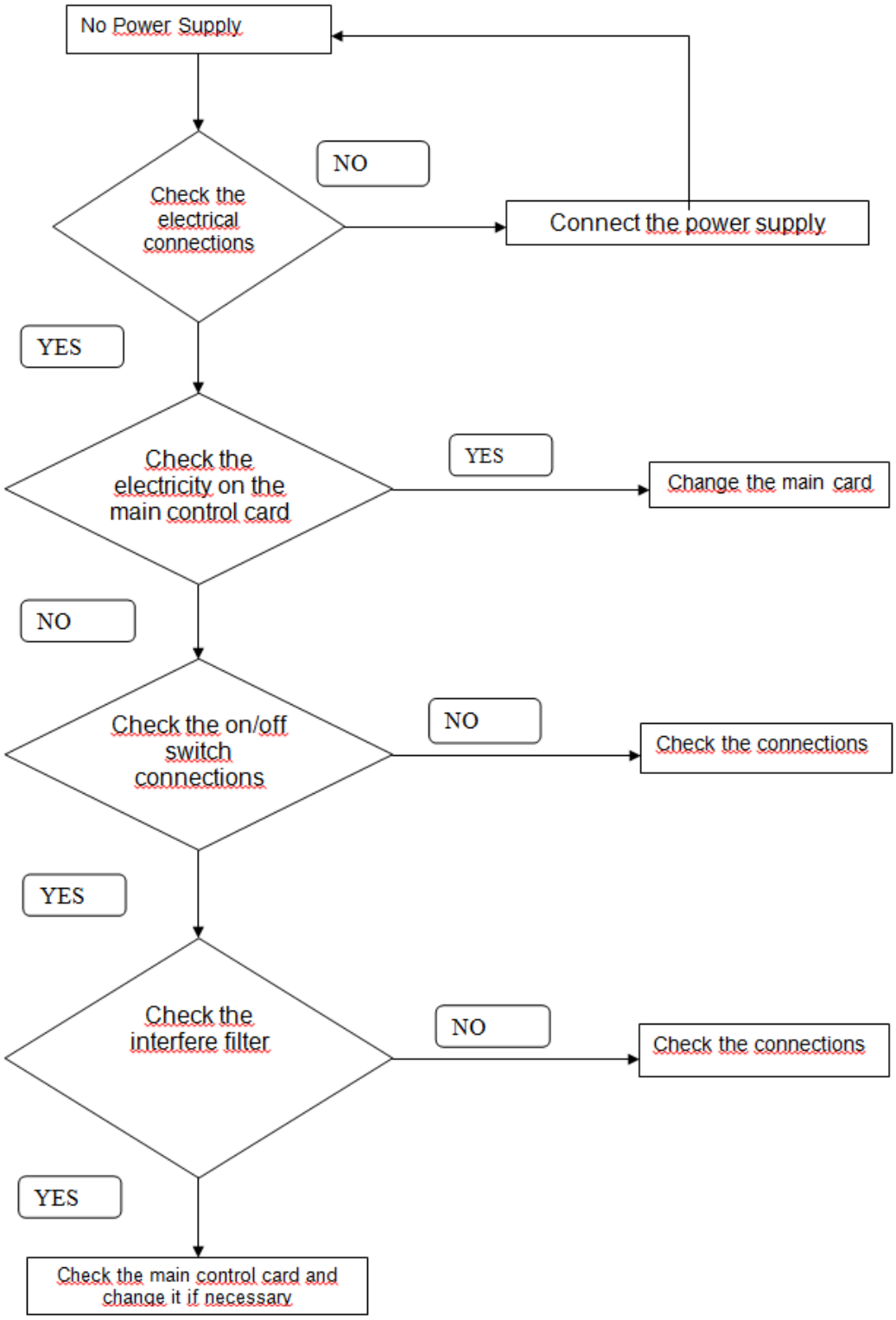
Error Codes:

Error Codes Definition
Er 01 : Door has opened during Run Mode
Er 02 : Overflow switch error
Er 03 : Not Applicable
Er 04 : If the door NTC exceed its limit °C compressor will stop for 5 minutes.
Er 05 : If the Compressor NTC exceed its limits, Compressor will stop 4 minutes for HP
Er 06 : Not Applicable
Er 07 : Not Applicable
Er 08 : If the Door NTC is open circuit.
Er 09 : If the Door NTC is short circuit.
Er 10 : If the Compressor NTC is open circuit.
Er 11 : If the Compressor NTC is 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 customer.
Er 20 : Start/Stop button pressed during running.
Er 21 : If the compressor stops in one cycle more than 6 times.
Er 22 : If the compressor stops in one cycle more than 40 times. Program finished automatically.

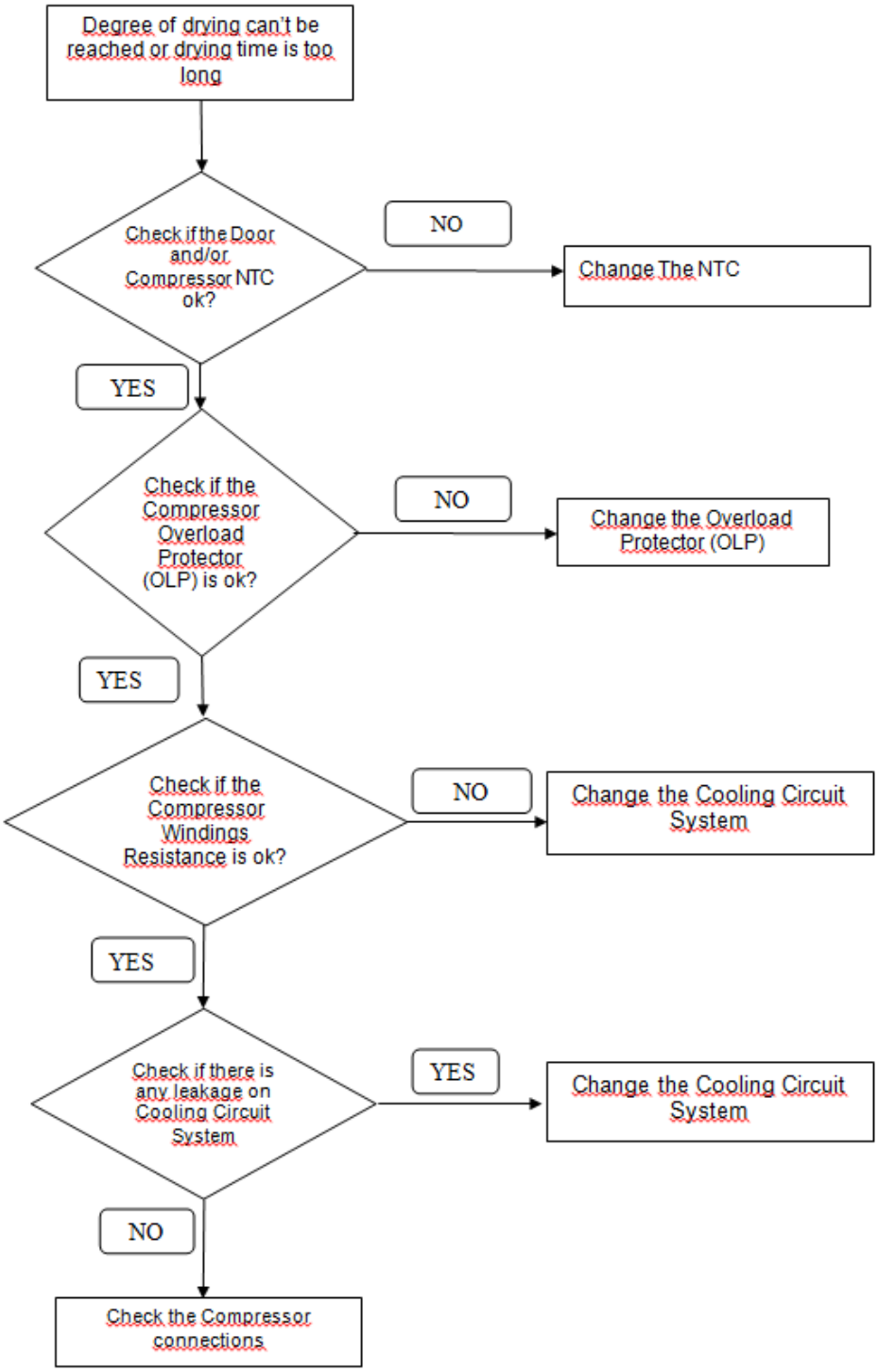
Sensitivity: Public

11. Faults Algorithms:

11.1. Machine Does Not Work:



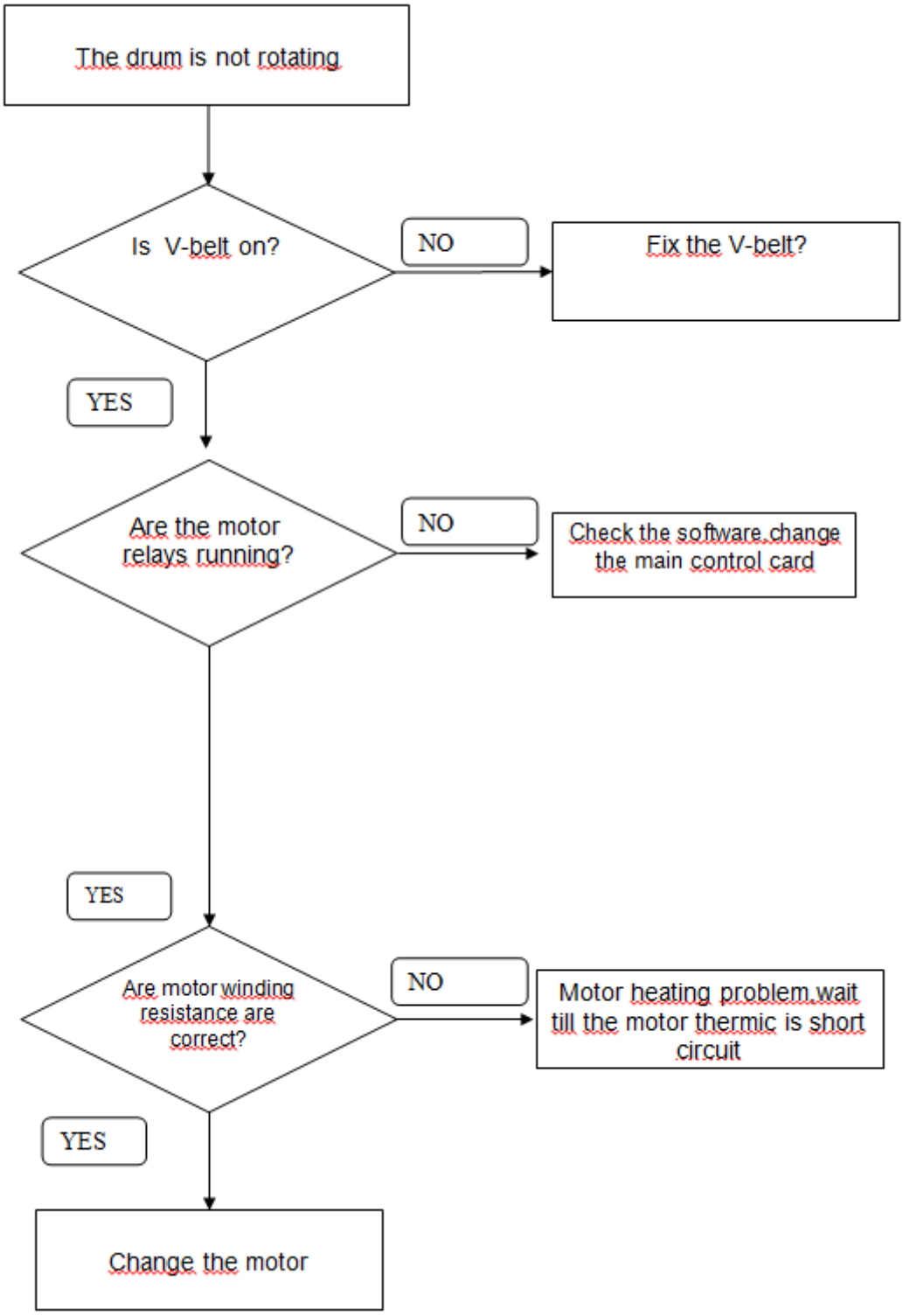
11.2. Degree of Drying can not be reached or drying time is too long:



Cooling circuit system includes the compressor, copper tubes and the heat exchangers (condenser and evaporator)

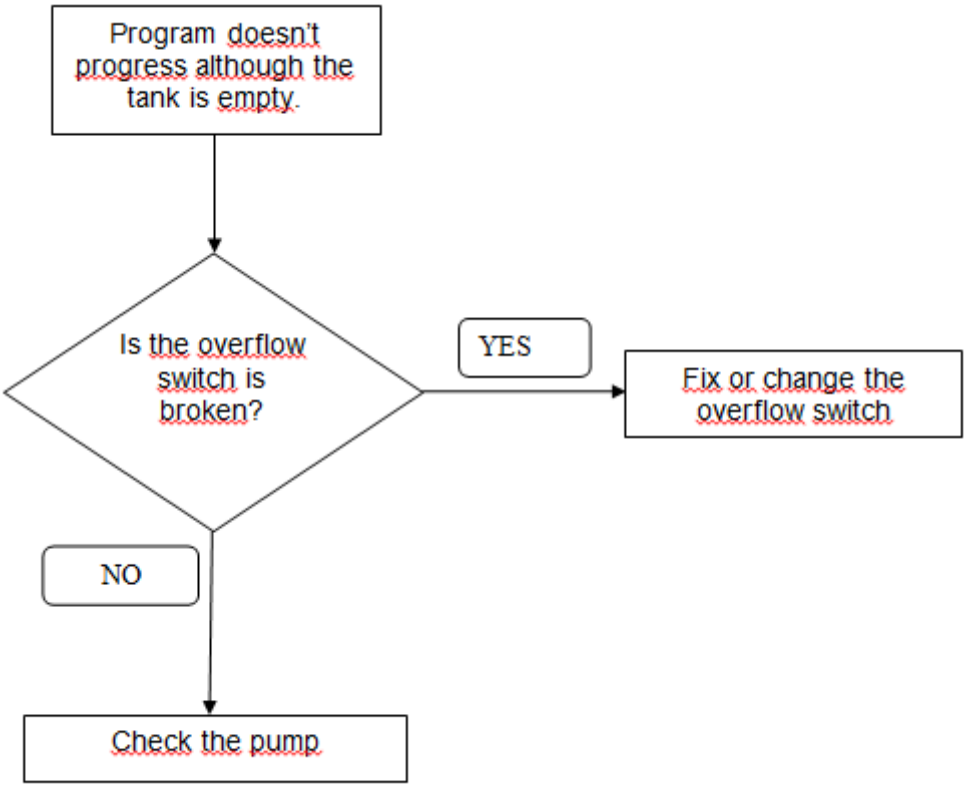
Sensitivity: Public

11.3. Drum is not rotating:



11.4. Program does not progress although the tank is empty:

Sensitivity: Public


Program doesn't progress although the tank is empty.
Is the overflow switch is broken?
YES
Fix or change the overflow switch
NO
Check the pump

12. Wiring and Cable Schematics:

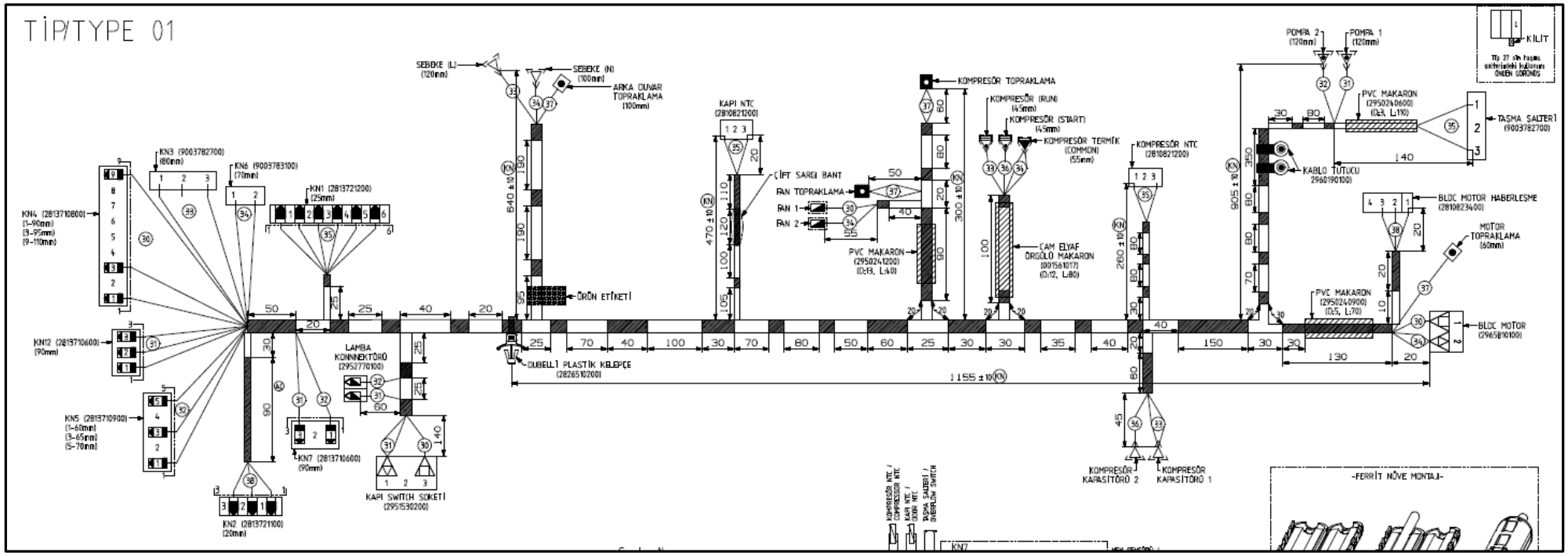


Figure 12-1: Cable Schematics (2994600100) – Heat Pump Models with Energy Classes Eco A++ and A+++ (Reversible Door)

Sensitivity: Public

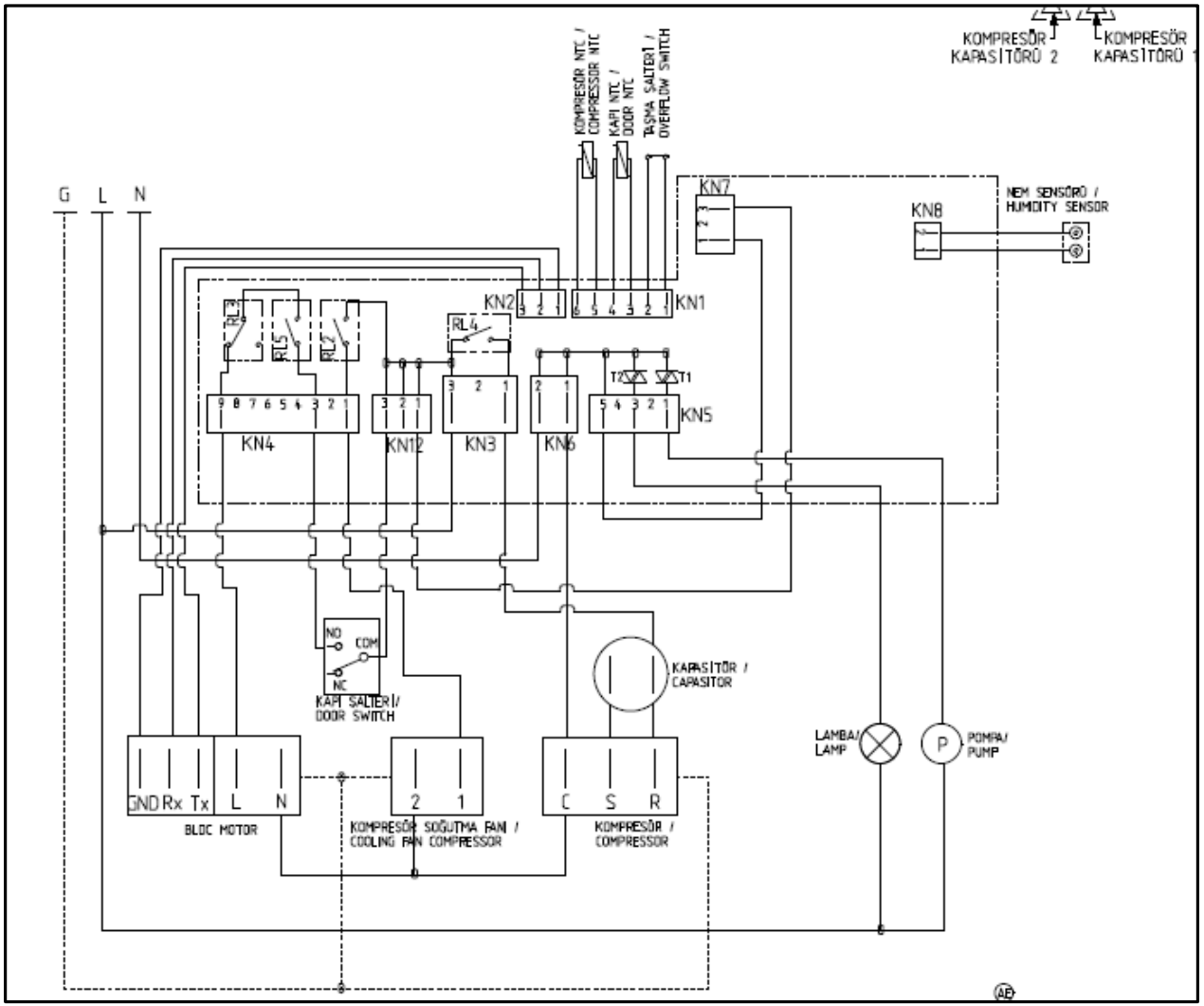


Figure 12-2: Wiring Schematics (2994600100) – Heat Pump Models with Energy Classes Eco A++ and A+++ (Reversible Door)

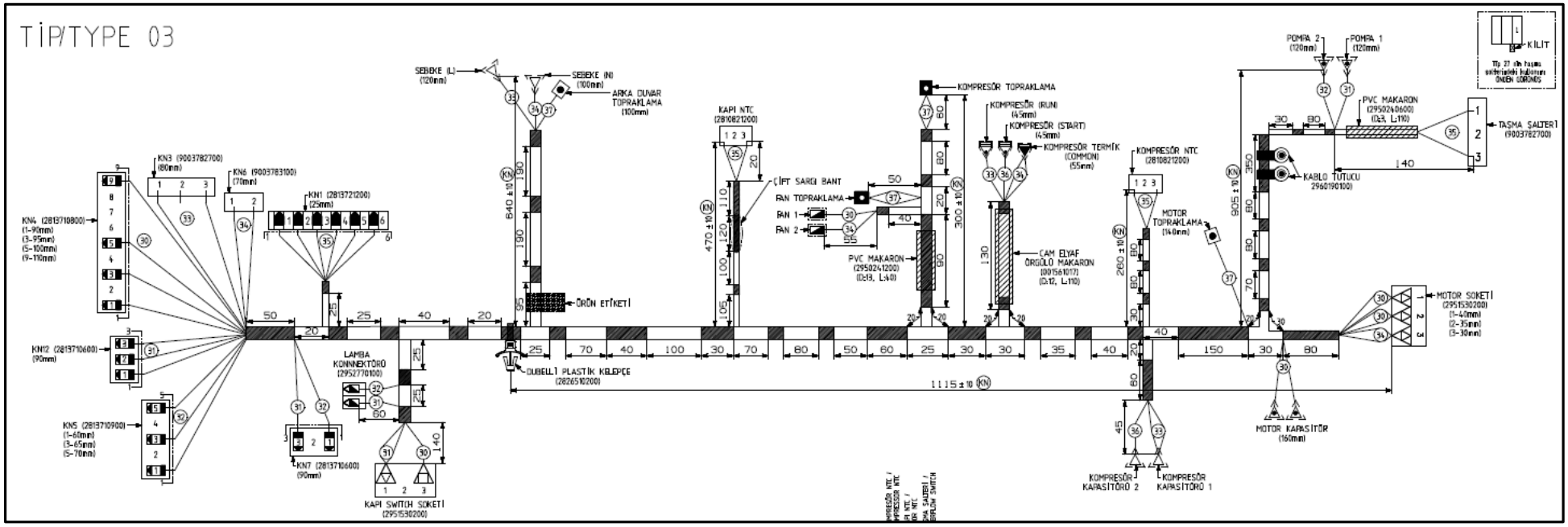


Figure 12-3: Cable Schematics (2994600300) – Heat Pump Models with Energy Class A+ and A++ (Reversible Door)

Sensitivity: Public

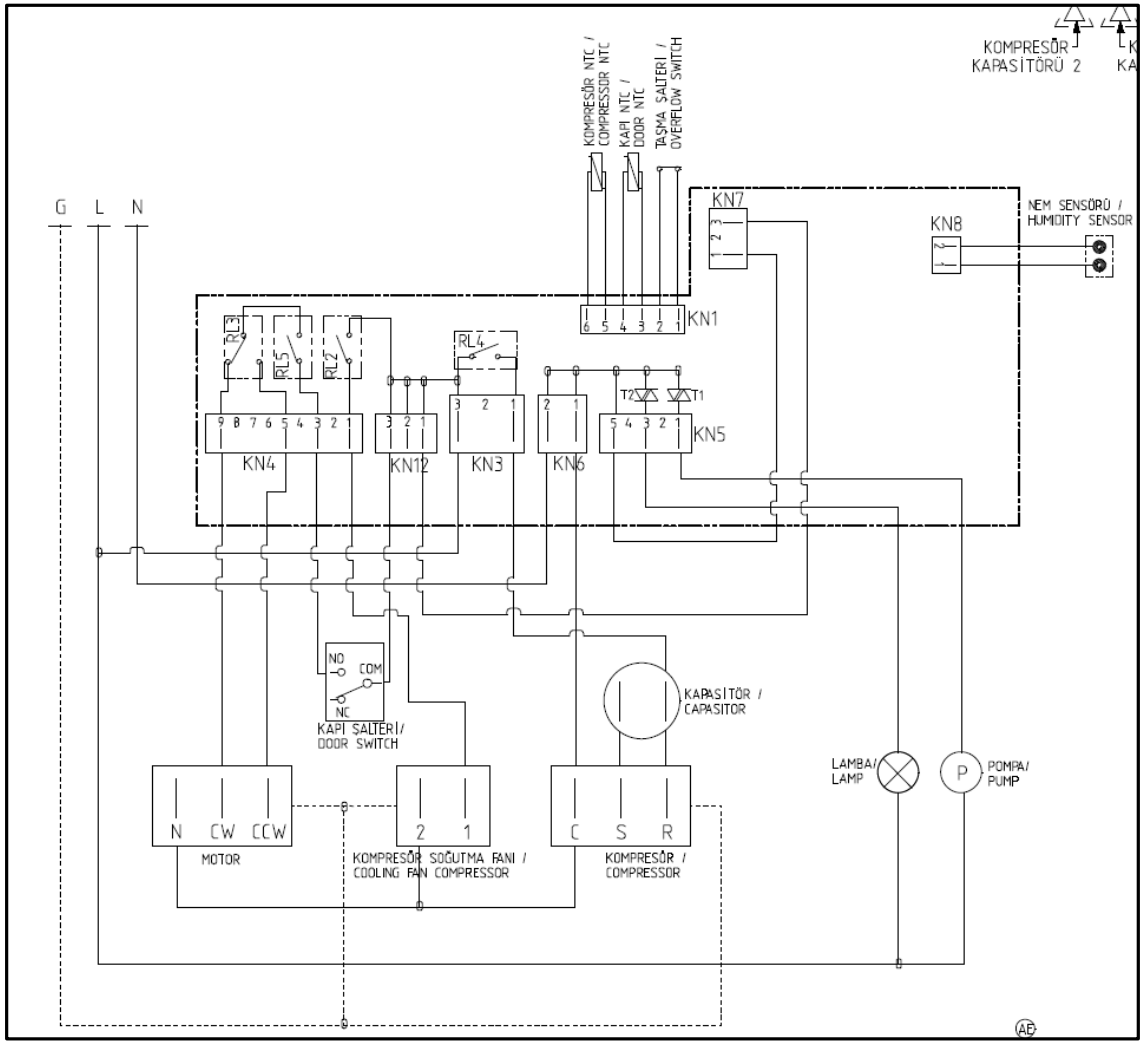


Figure 12-4: Wiring Schematics (2994600300) – Heat Pump Models with Energy Class A+ and A++ (Reversible Door)

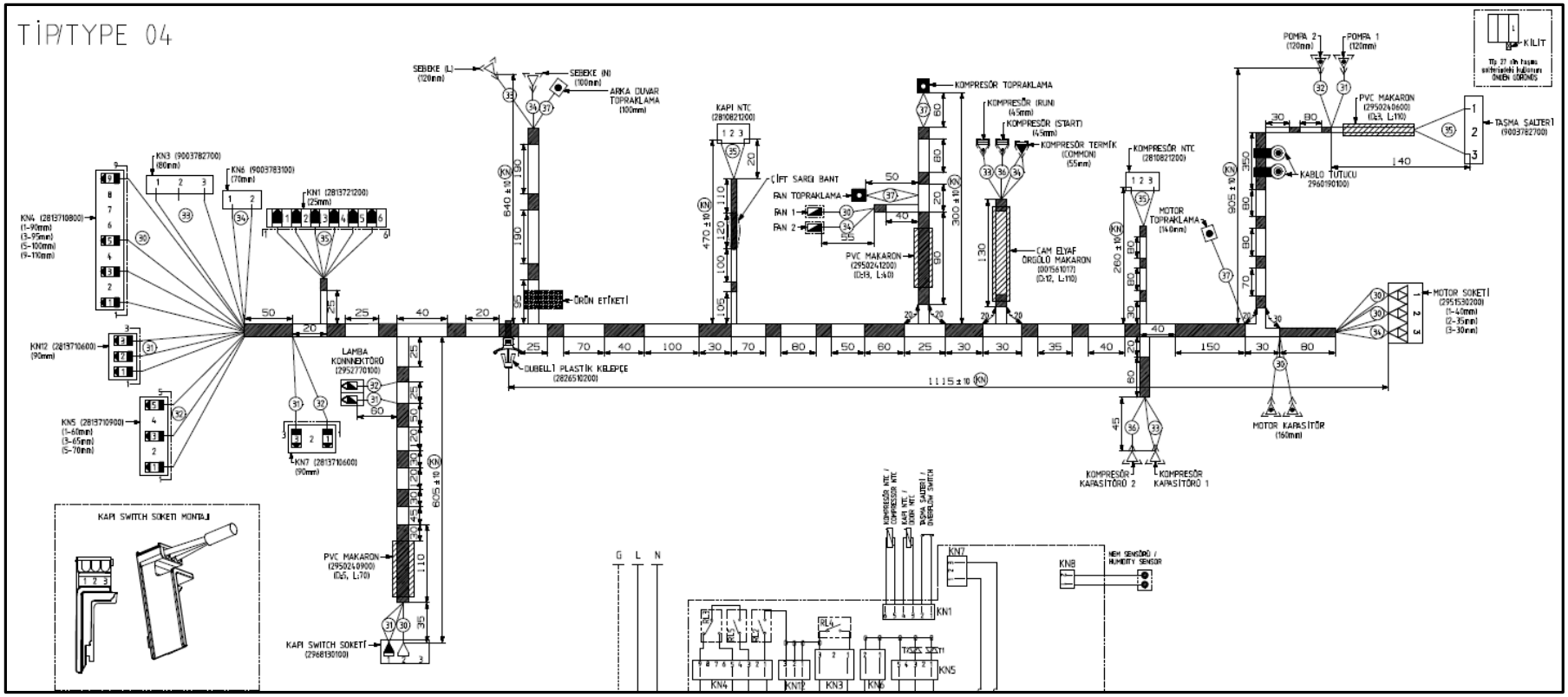


Figure 12-5: Cable Schematics (2994600400) – Heat Pump Models with Energy Class A+ and A++ (Opaque Door)

Sensitivity: Public

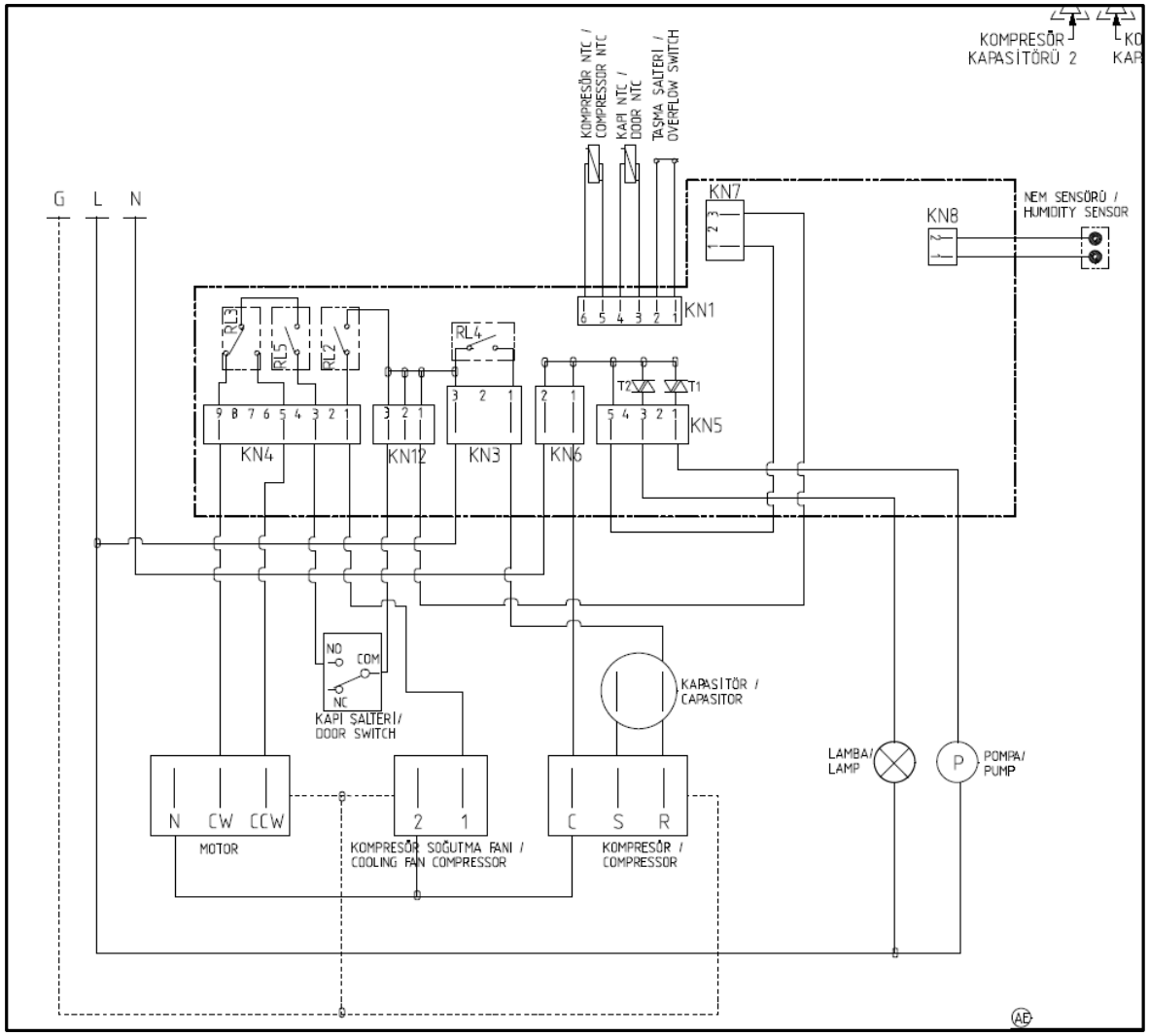


Figure 12-6: Wiring Schematics (2994600400) – Heat Pump Models with Energy Class A+ and A++ (Opaque Door)

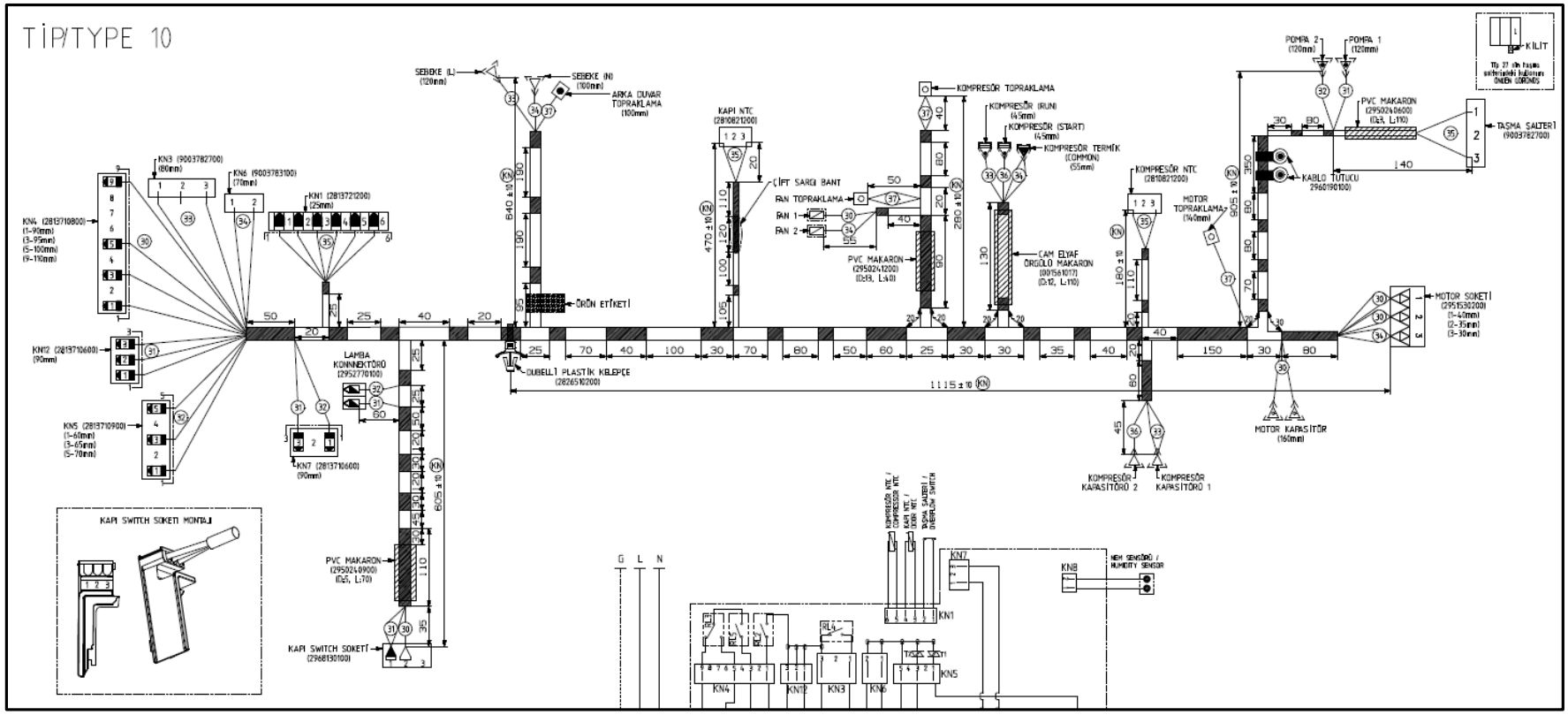


Figure 12-7: Cable Schematics (2994601000) – Heat Pump Models with Energy Class Super Eco A++

Sensitivity: Public

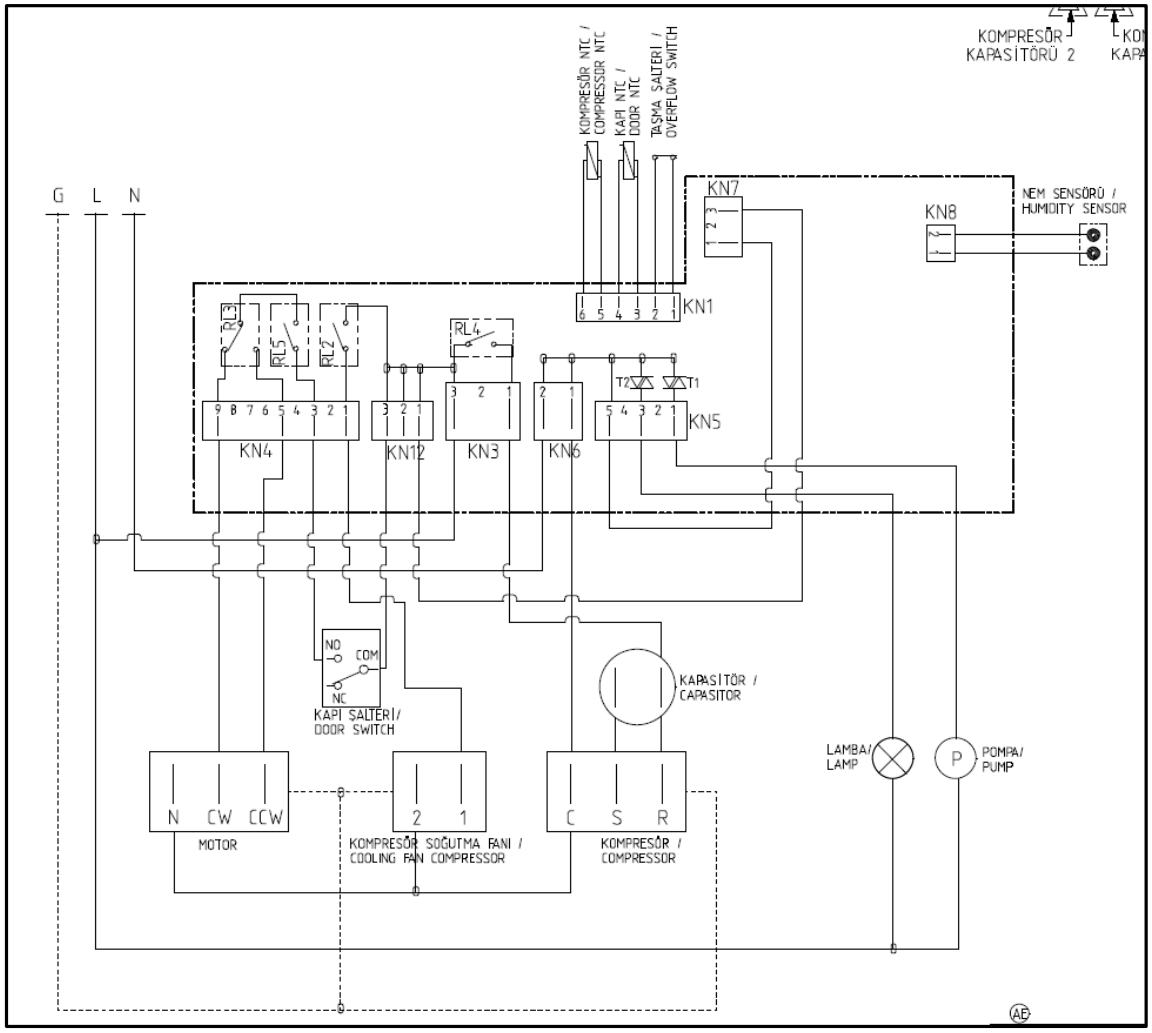


Figure 12-8: Wiring Schematics (2994601000) – Heat Pump Models with Energy Class Super Eco A++

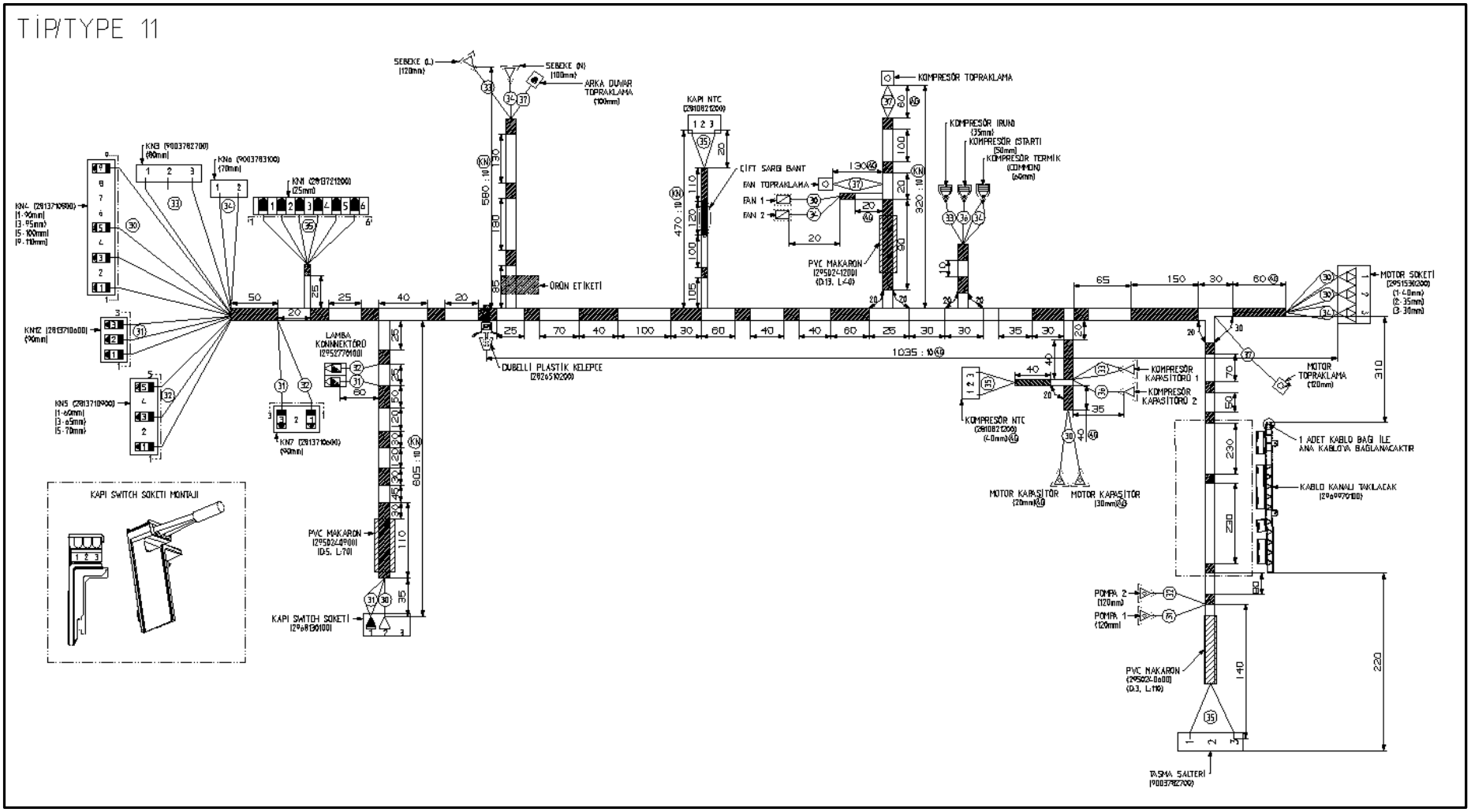


Figure 12-9: Cable Schematics (2994601100) – 54 cm Heat Pump Models

Sensitivity: Public

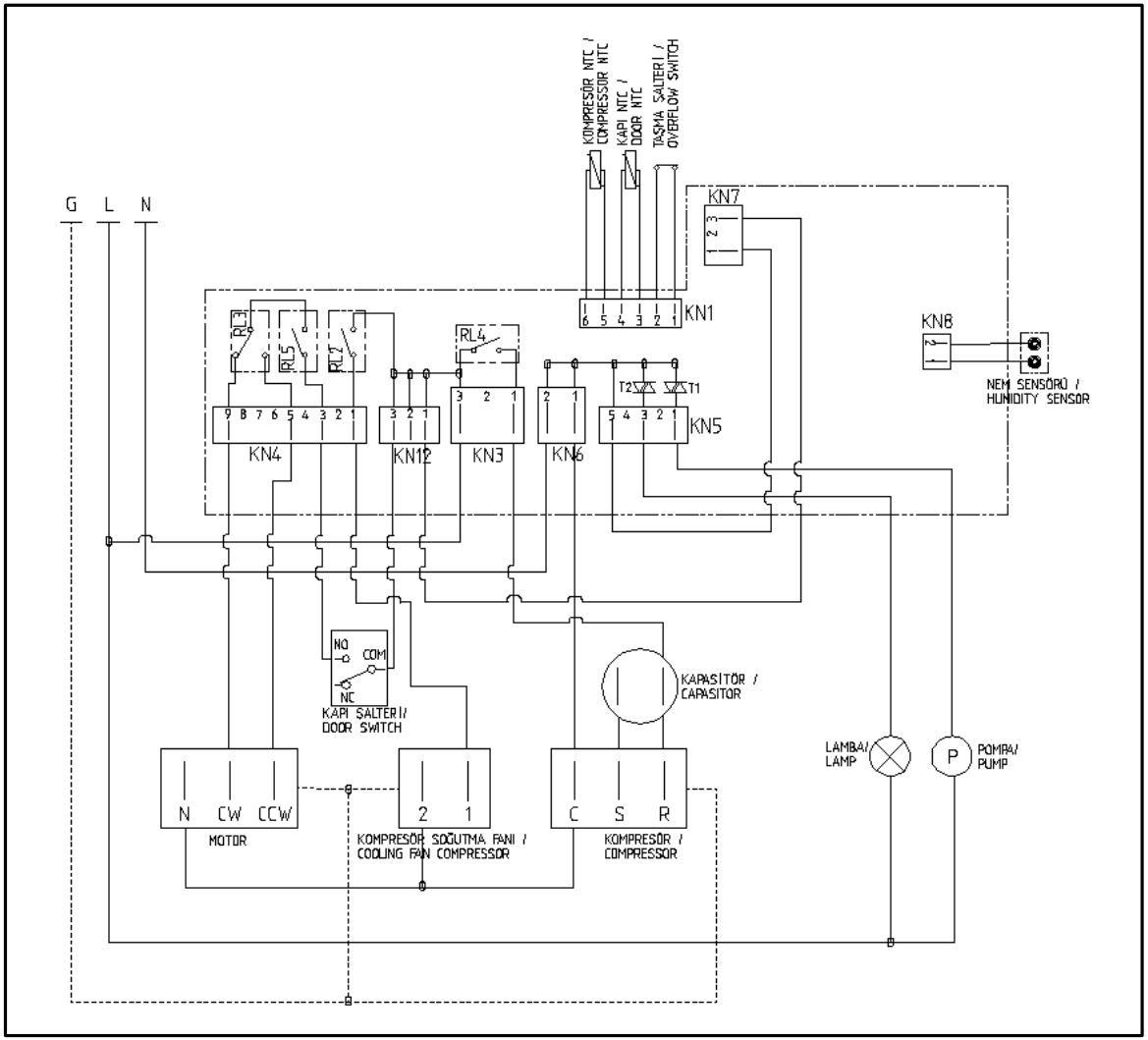


Figure 12-10: Wiring Schematics (2994601100) – 54 cm Heat Pump Models

13. Dismounting Details:



Figure 13.1. General View

13.1. Top Plate:



Figure 13.2. Disassembling the top plate

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

Sensitivity: Public

13.2. Side Panel:

13.2.1. Side Panel / Side Support Bracket:

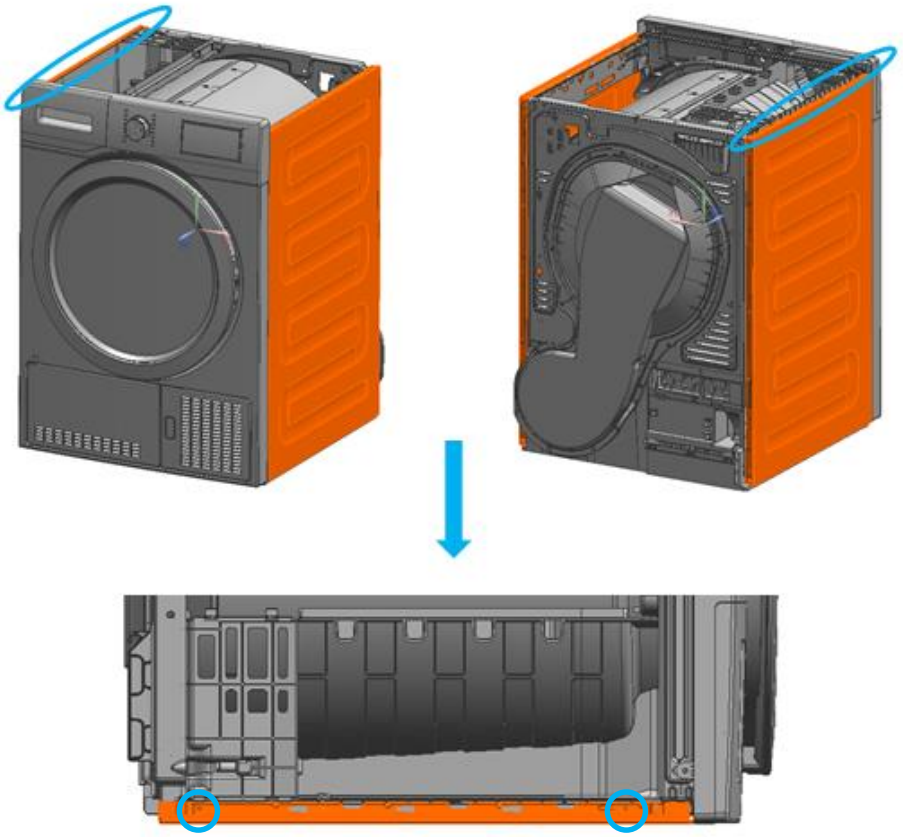


Figure 13.2. Screws between the side panel and side support bracket (Water Tank Side)

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

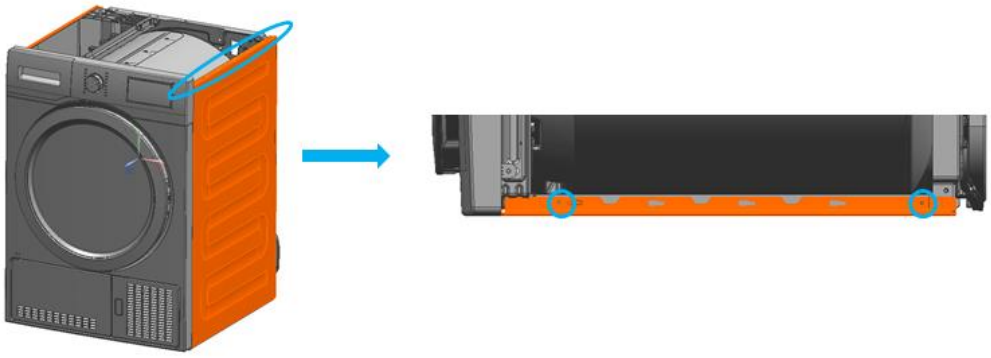


Figure 13.3. Screws between the side panel and side support bracket (Drum Side)

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

13.2.2. Side Panel / Rear Panel:

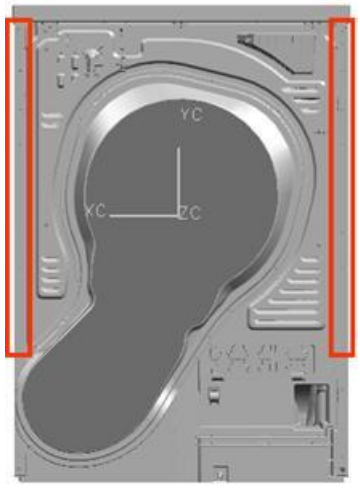


Figure 13.4. Connections between the side panel and the rear panel at the back side of the dryer

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

13.2.3. Side Panel / Plastic Chassis Assembly:

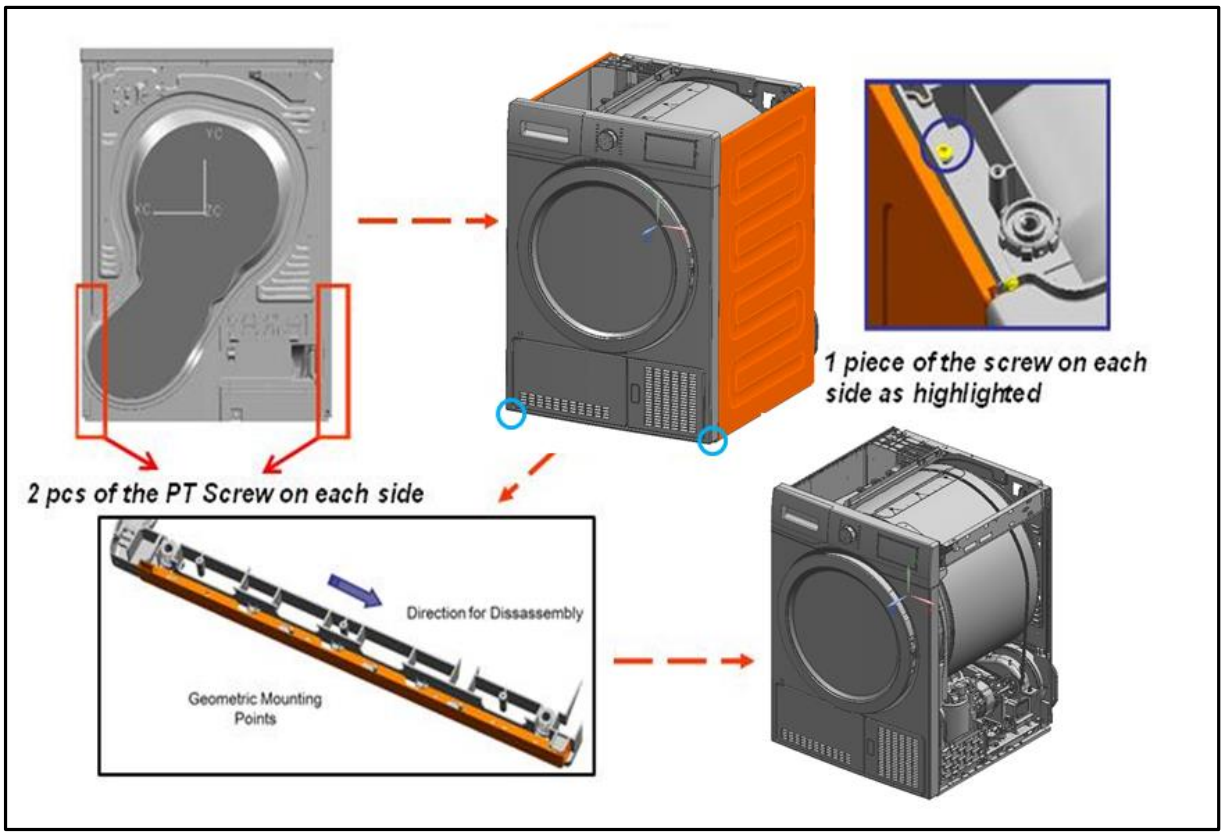


Figure 13.5. Connections between the side panel and the plastic chassis assembly

Sensitivity: Public

- 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.

13.2.4. Side Panel and Front Panel Connection:

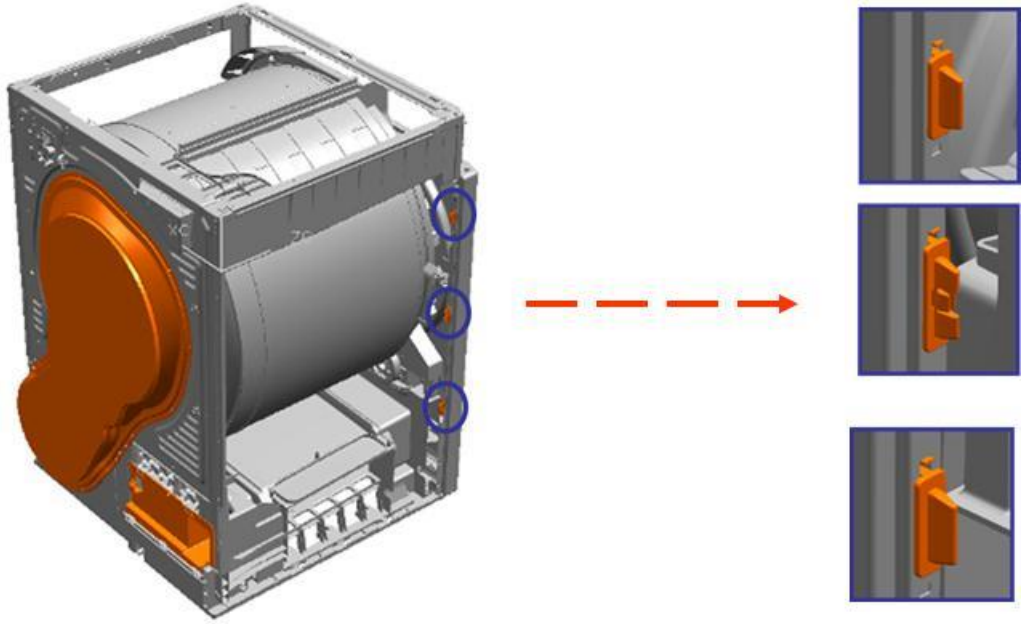


Figure 13.6. Coincident points between the front panel and side panel

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

13.3. Plastic Cover Mounting Points:

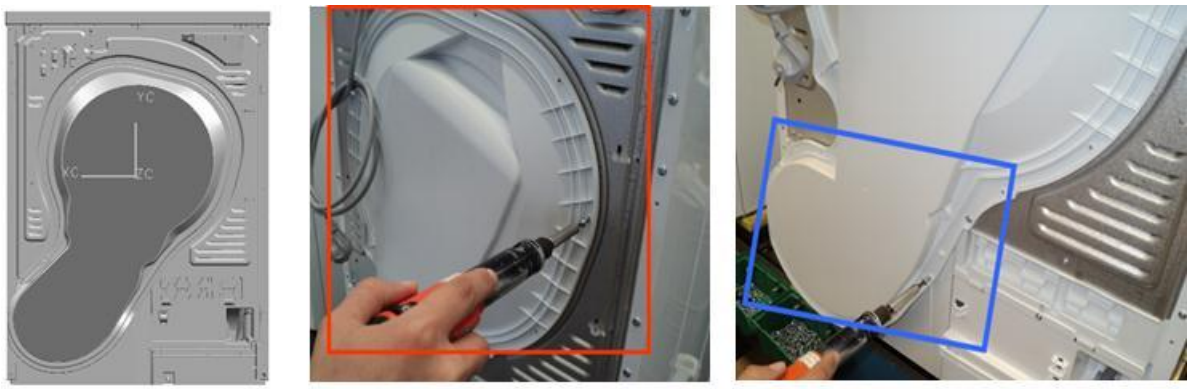


Figure 13.7. Connection points between the plastic cover - rear panel and plastic chassis

- Remove the 10 pieces of sheet screws between the plastic rear cover and the rear panel.
- Remove the 8 pieces of PT screws between the plastic rear cover and the plastic chassis.

13.4. Control Panel Assembly:

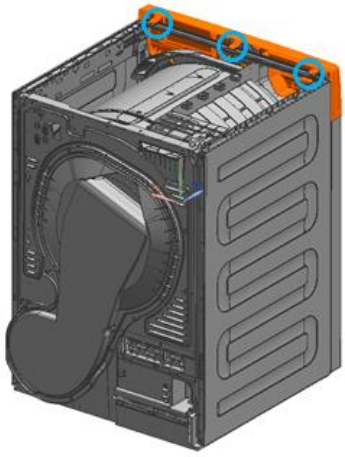


Figure 13.8. Connection points between Front Panel Assembly and Support Sheet of Front Panel

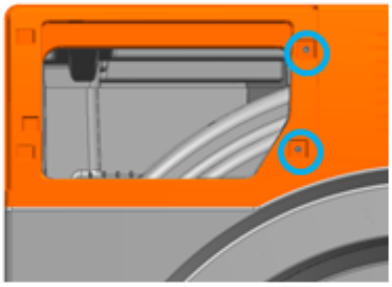


Figure 13.9. Connection points between Control Panel and Tank Housing

- 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.

13.5. Support Sheet Brackets:

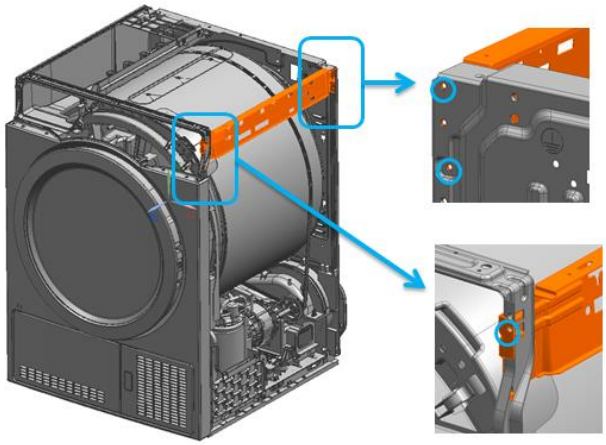


Figure 13.10. Connection points for Support Sheet Brackets on Right Hand Side (RHS)

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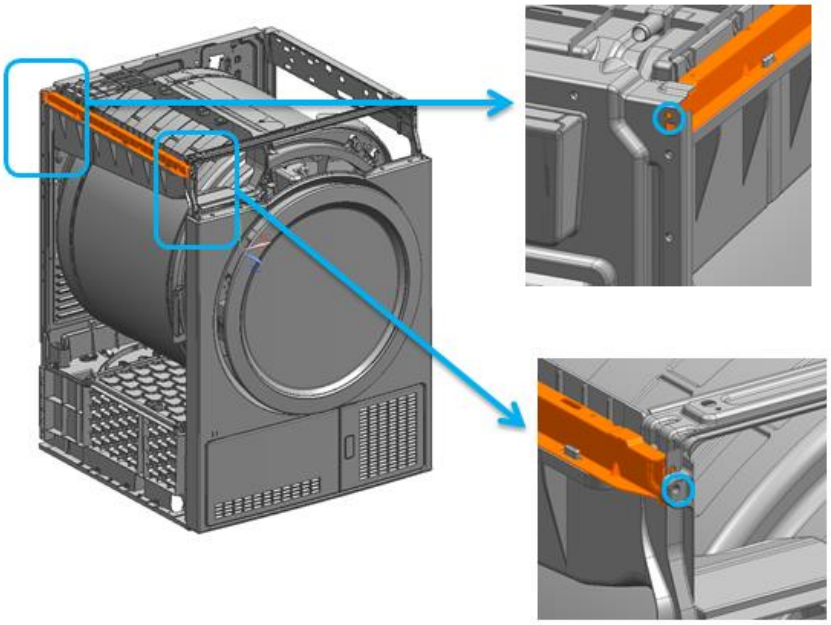


Figure 13.11. Connection points for Support Sheet Brackets on Left Hand Side (LHS)

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

13.6. Rear Panel Assembly

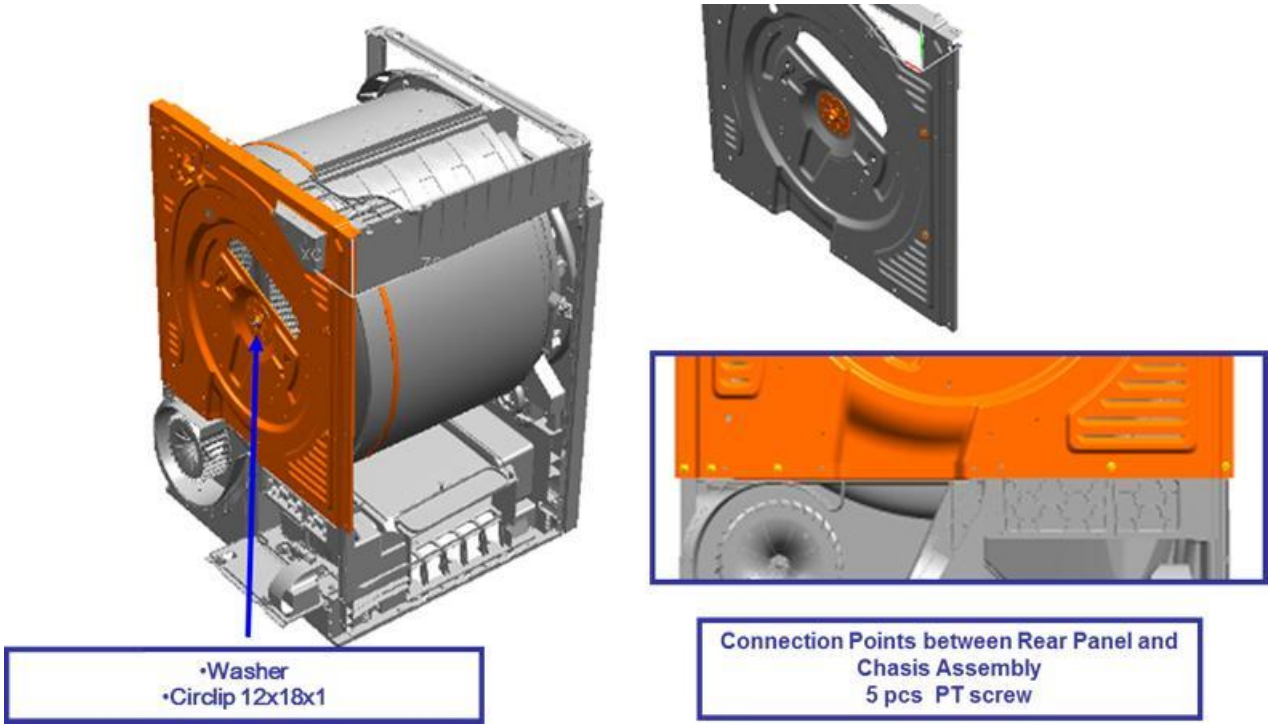


Figure 13.12. Connection points between Rear Panel and Chassis Assembly

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.

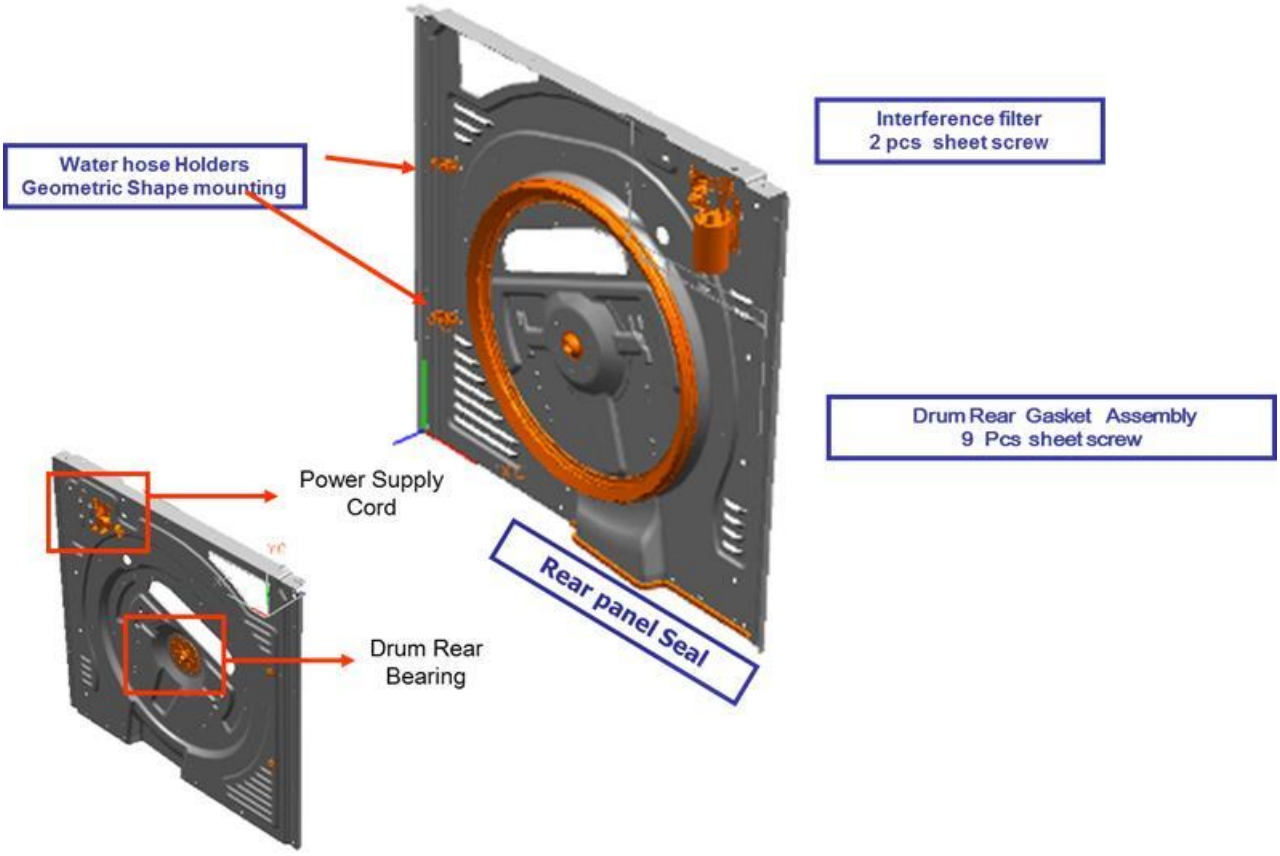


Figure 13.13. Sub-parts on the Rear Panel Assembly

- 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

13.7. Drum Assembly:

- To disassemble the drum assembly:

Sensitivity: Public

- 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.

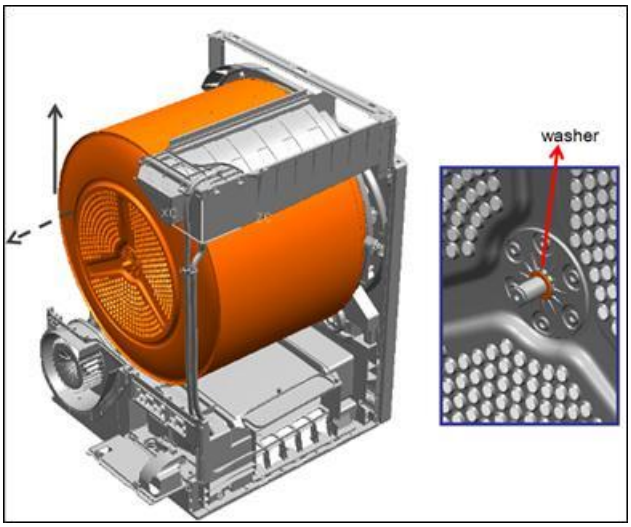


Figure 13.14. Drum Disassembly

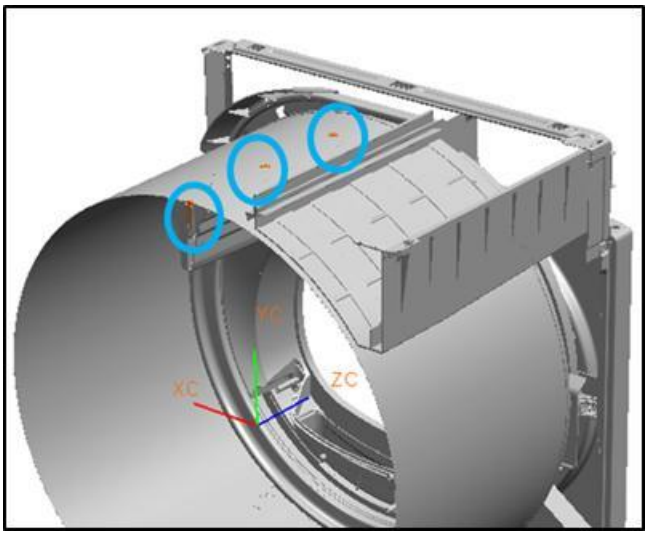


Figure 13.15. Drum Pedals

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

13.8. Control Panel Support Bracket:

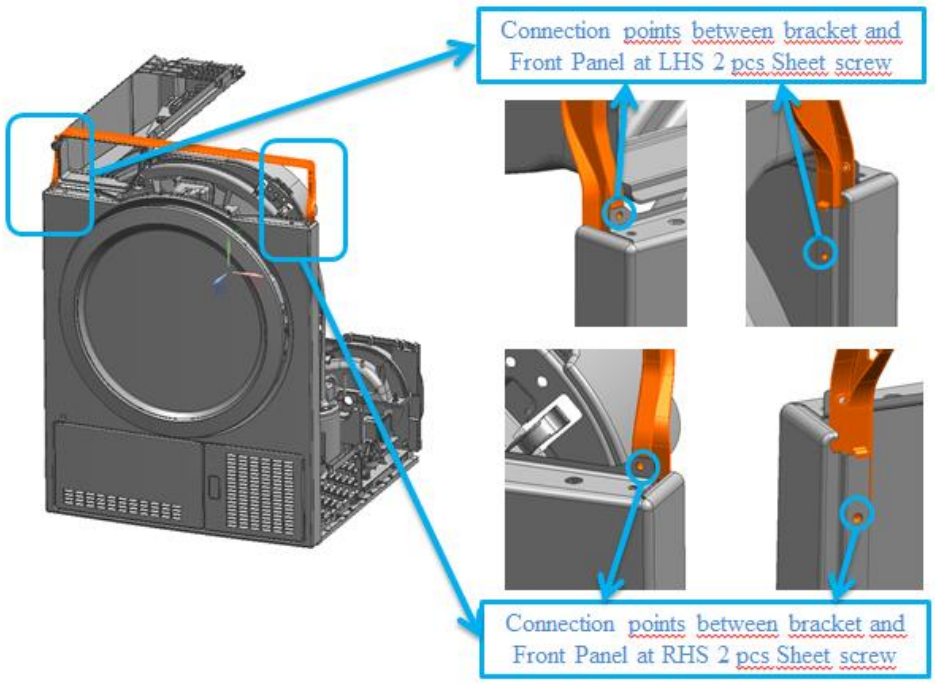


Figure 13.16. Control Panel Support Bracket Disassembly

13.9. Water Tank Housing:

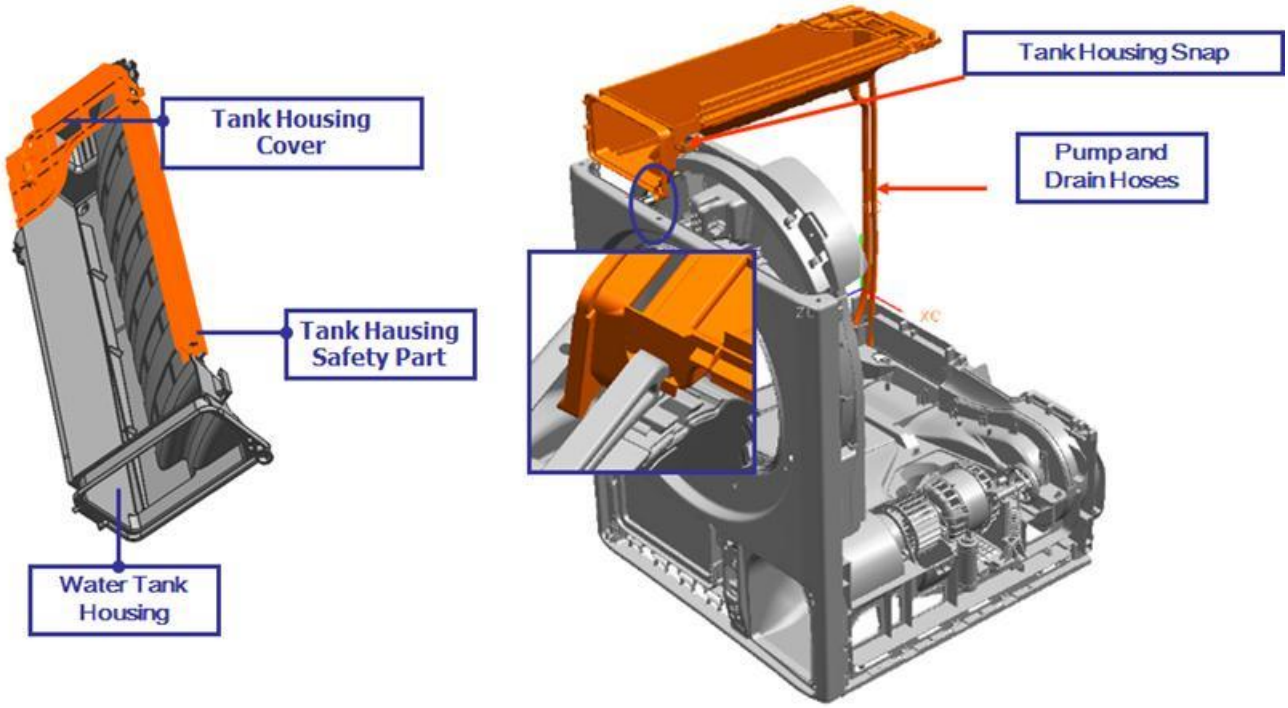


Figure 13.17. Water Tank Housing

- 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.

13.10. Glass Door Group Assembly:

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



Figure 13.18. Assembling the gasket and glass

Sensitivity: Public

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

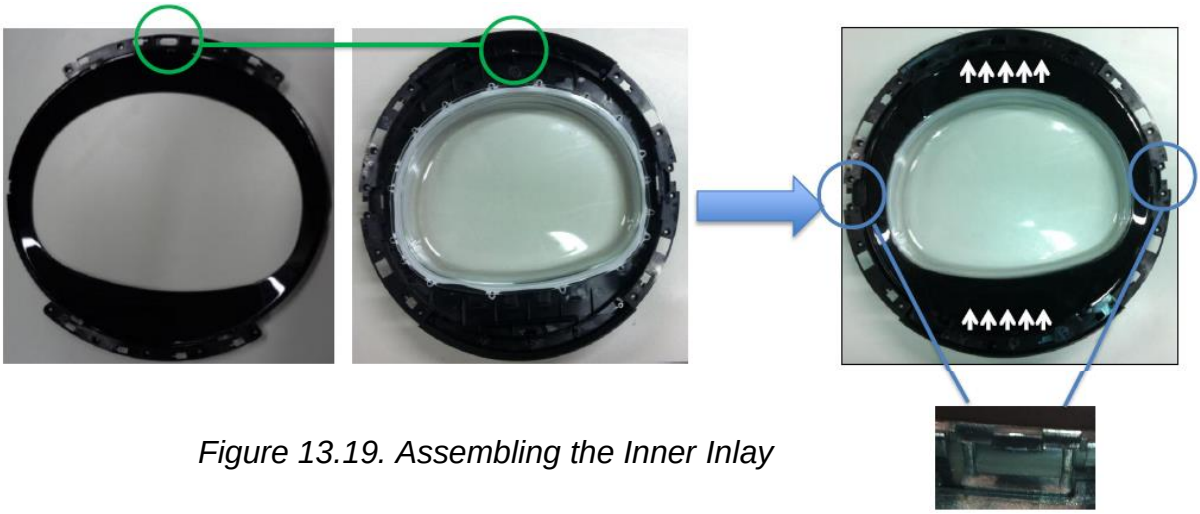


Figure 13.19. Assembling the Inner Inlay

- 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.

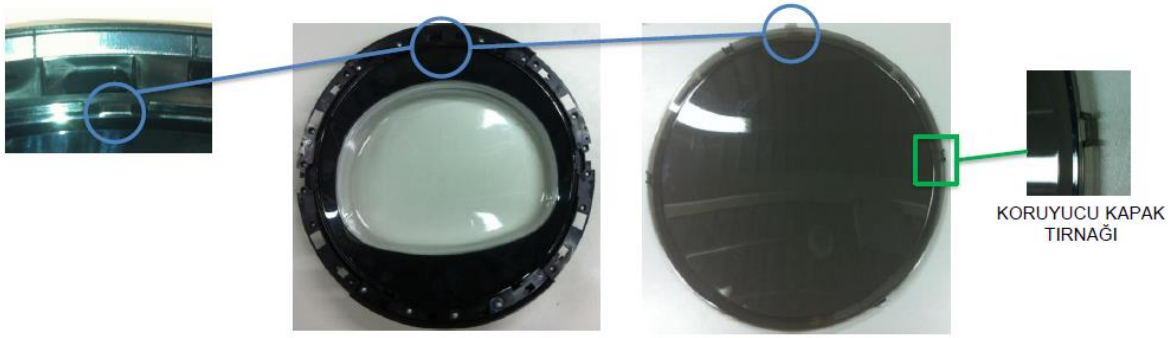


Figure 13.20. Protective Door Assembly

- 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.

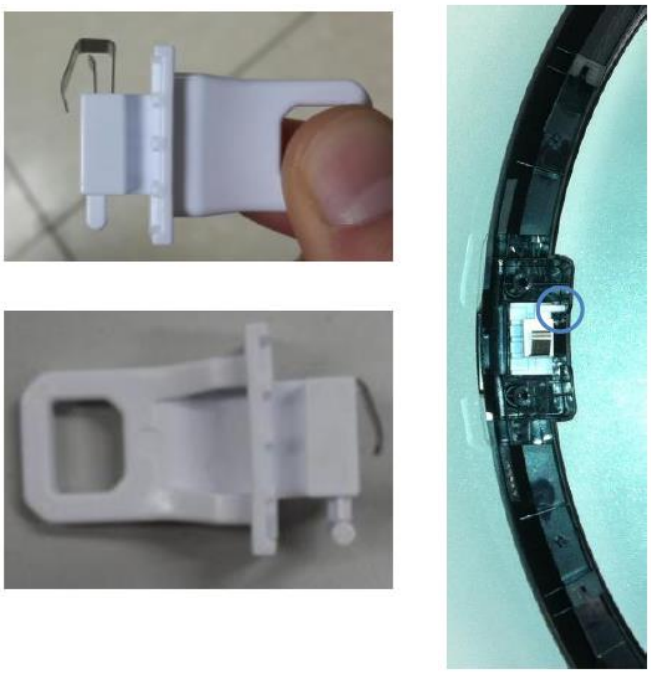


Figure 13.21. Hook Assembly

- 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.

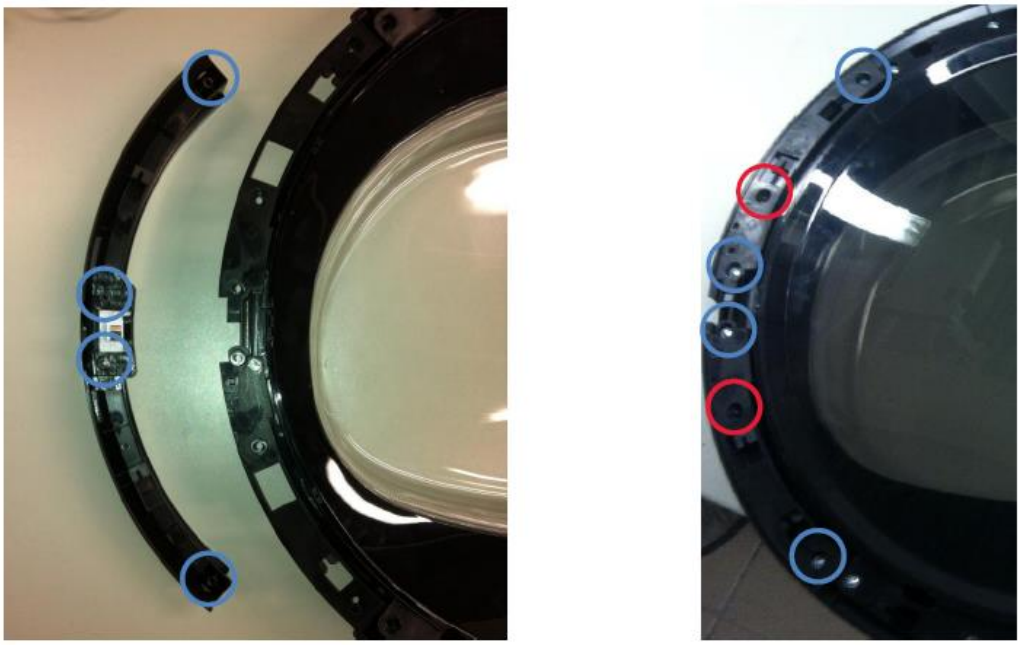


Figure 13.22. Hook Holder Assembly

Sensitivity: Public

- 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.

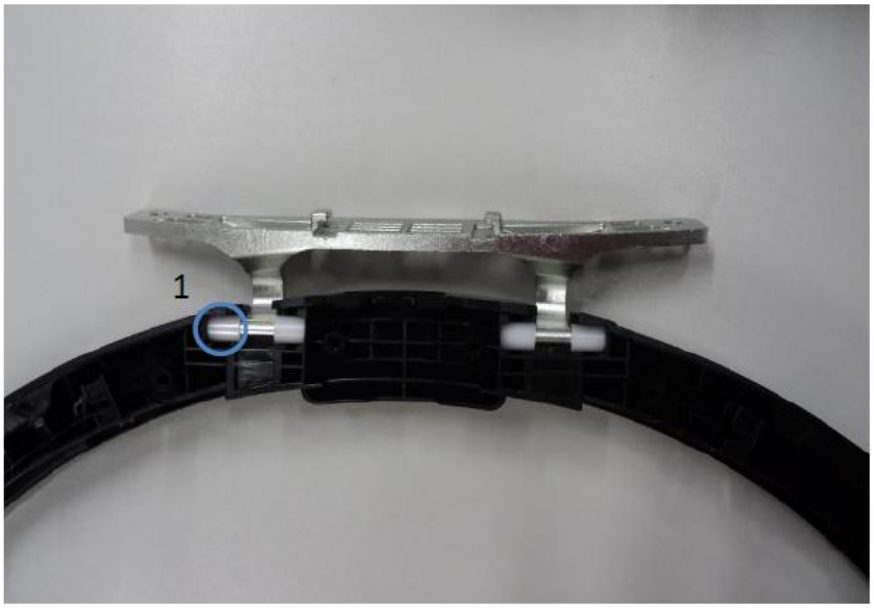


Figure 13.23. Hinge Assembly

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

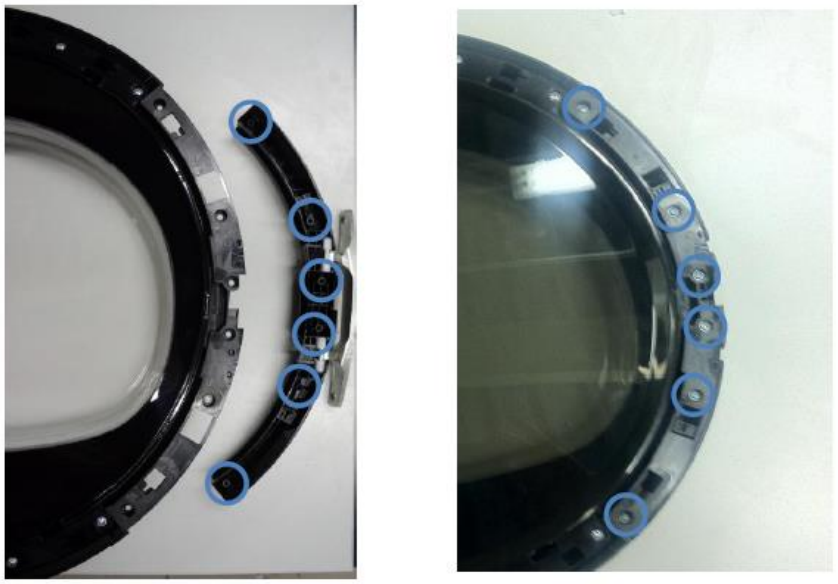


Figure 13.24. Hinge Holder Assembly

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



Figure 13.25. 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.

Sensitivity: Public



Figure 13.26. Microswitch Assembly

- Assemble the microswitch as shown in the figure above.

13.11. 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 13.27. 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

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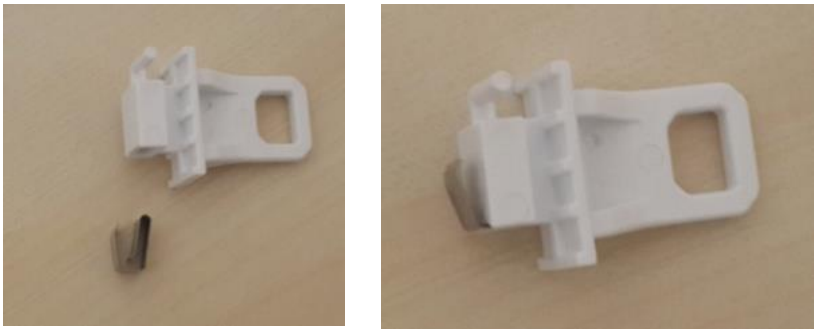


Figure 13.28. The Hook and the hook spring

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





Figure 13.29. 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 13.30. The Hook Assembly

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

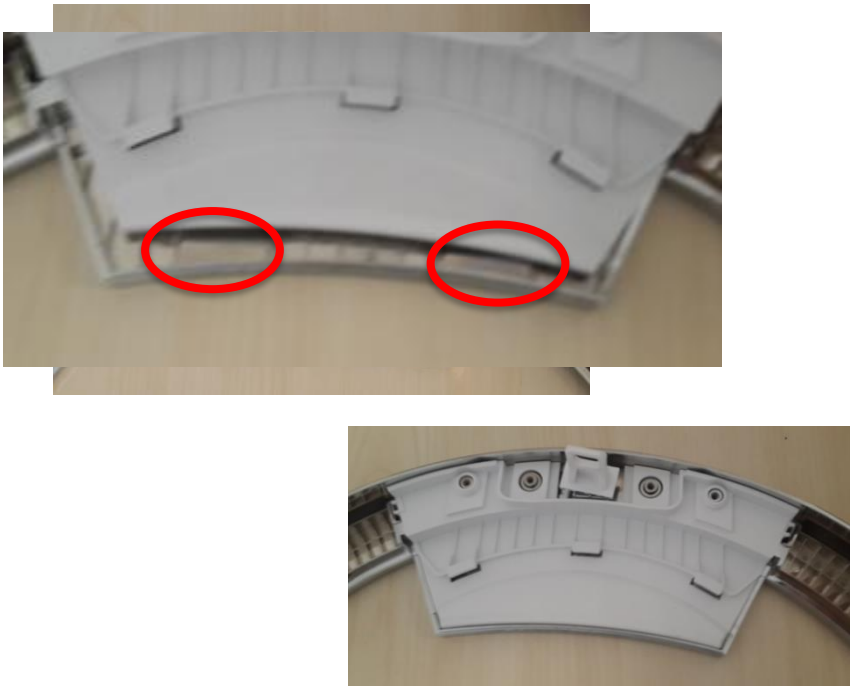


Figure 13.31. The Inner Handle Assembly

- 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.

Sensitivity: Public



Figure 13.32. 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.

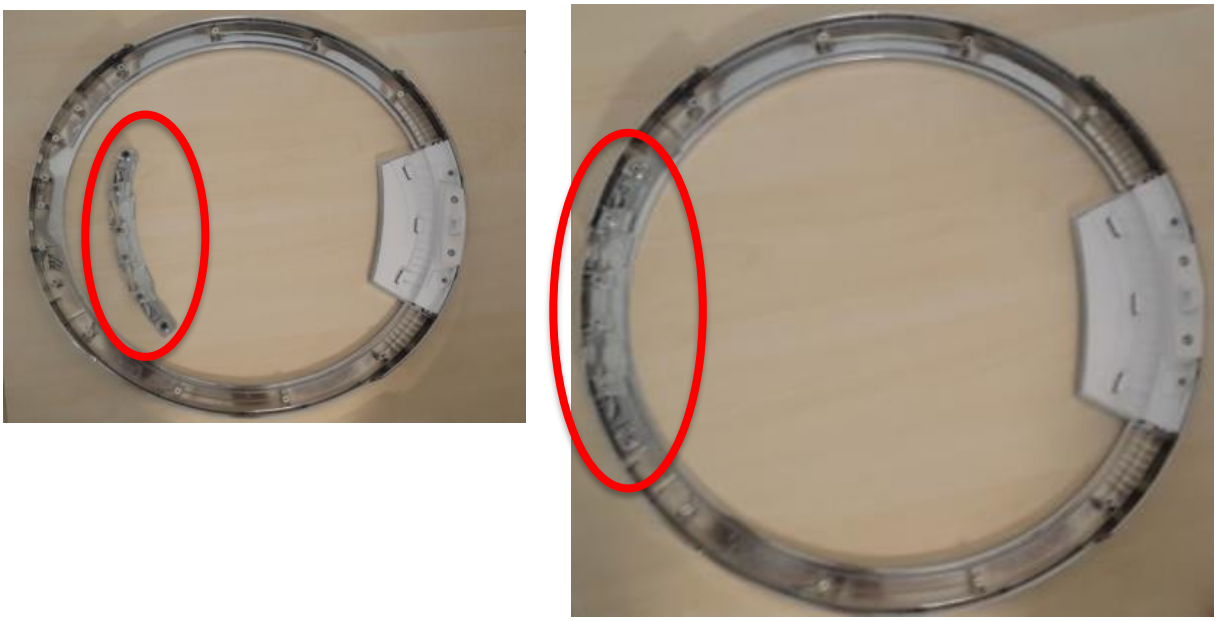


Figure 13.33. The Hinge Fixing Part Assembly

- 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 13.34. The Protective Door Assembly

Sensitivity: Public

- 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.

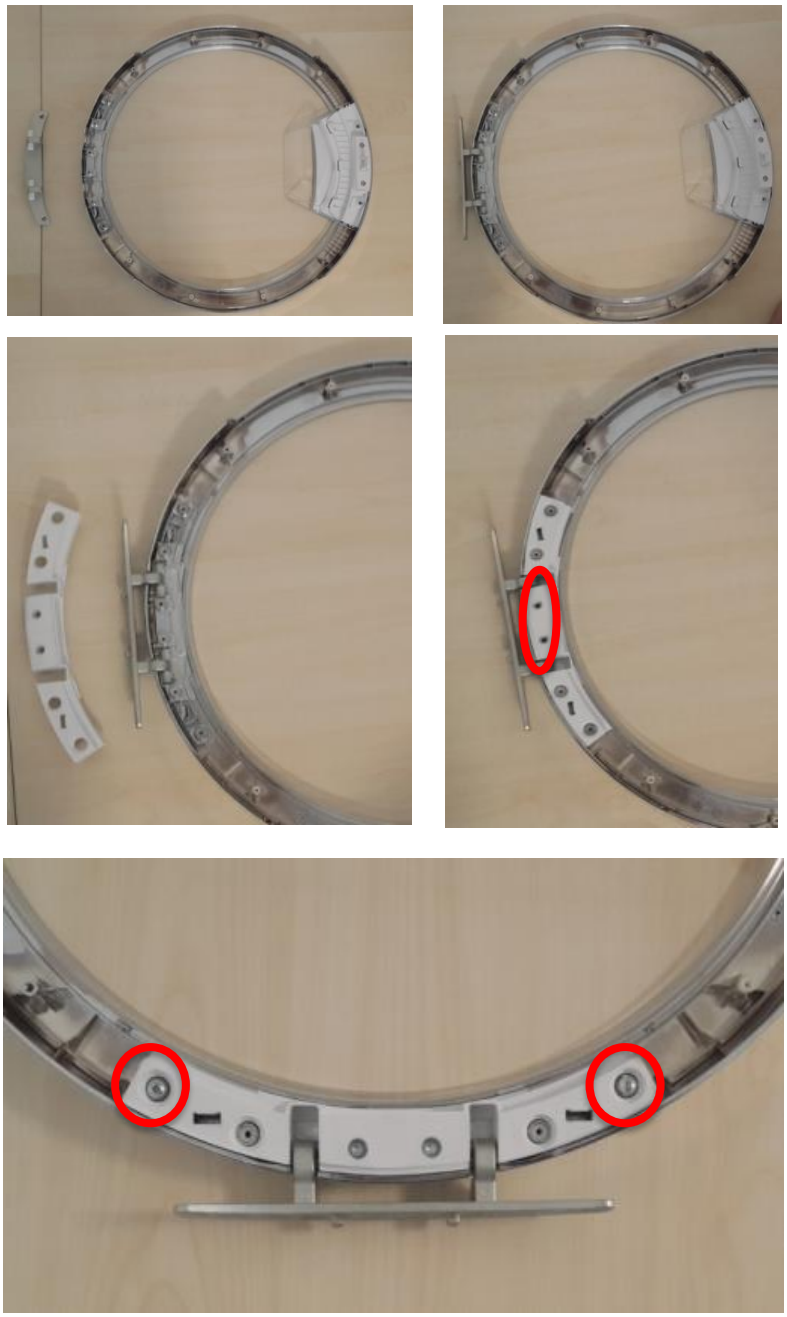


Figure 13.35. The Hinge Assembly

- 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 13.36. The Inner Door Assembly

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

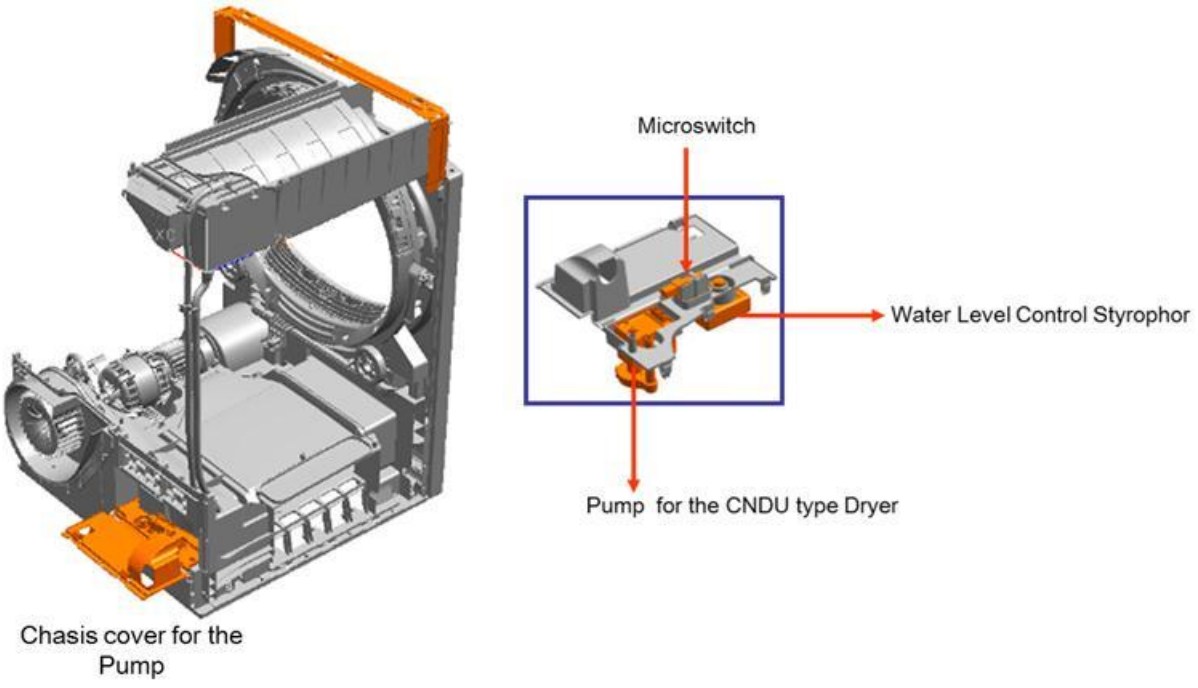
Sensitivity: Public



Figure 13.37. The Microswitch Pin Assembly

Assemble the microswitch pin as shown in the figure above.

13.12. Microswitch and Pump:



13.13. Kickplates:

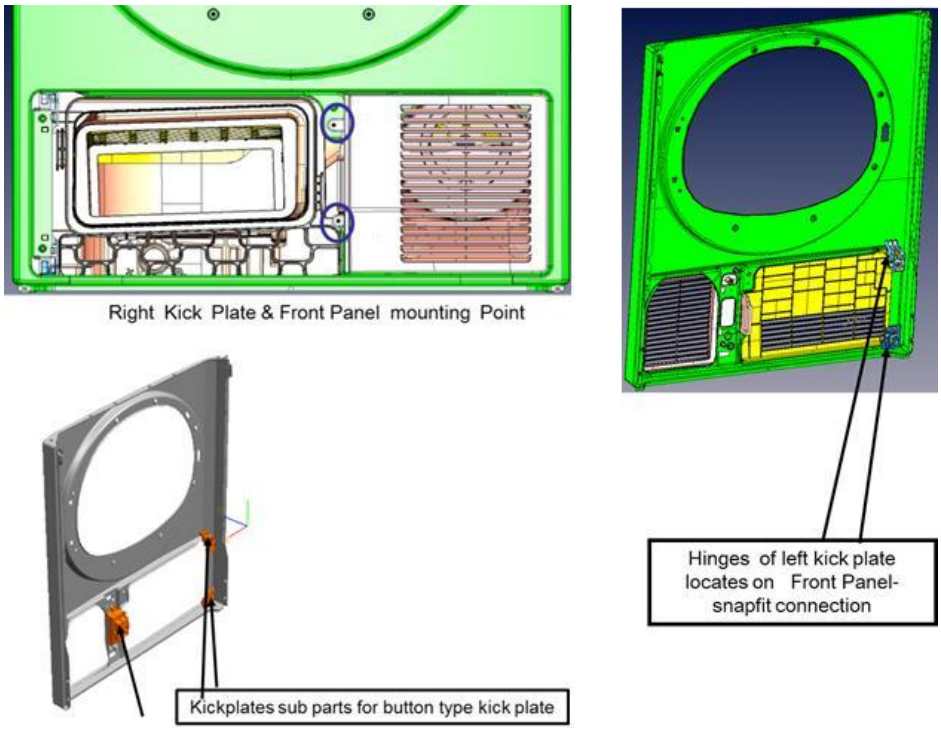
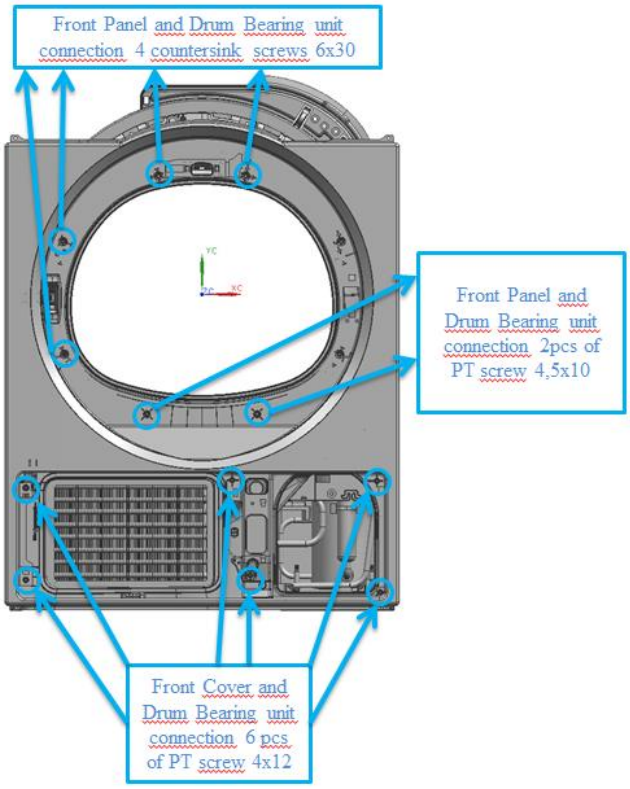


Figure 13.39. Disassembling the kickplate

13.14. Front Panel:



Sensitivity: Public

Figure 13.40. 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.

13.15. Drum Front Bearing Unit:

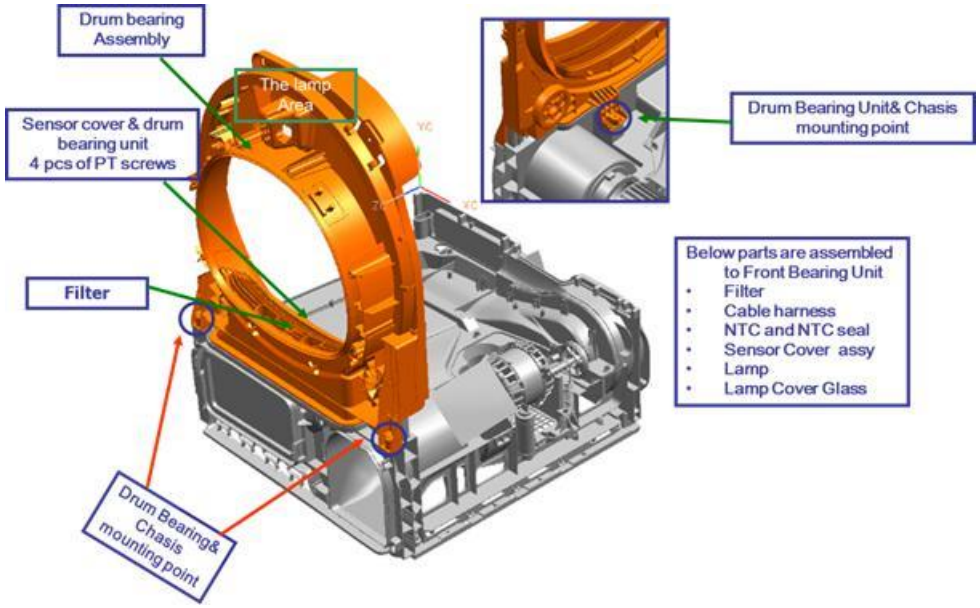
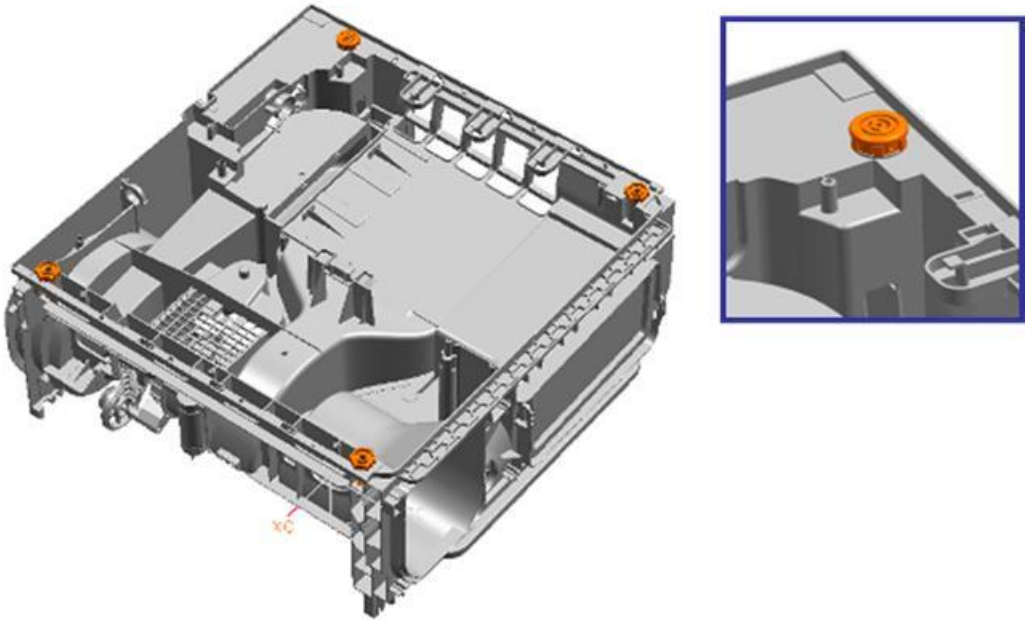


Figure 13.41. Connections of drum front bearing housing

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

13.16. Adjustable Feet:



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

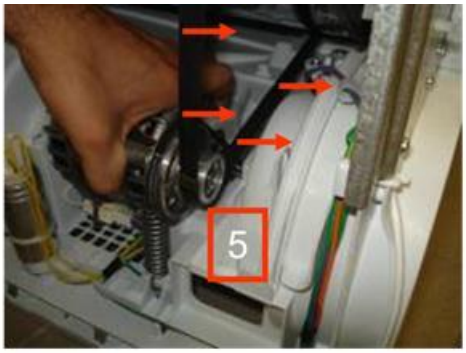
14. Service Details for the Components:

14.1. Service Details of the Motor Unit:



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

Sensitivity: Public



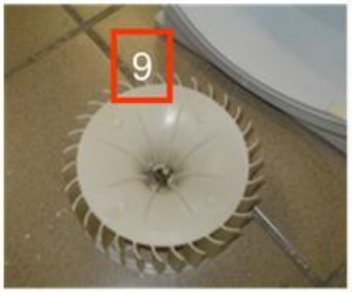














- Force the motor assembly to turn it on clockwise direction to loose V-belt (5).
- Take out the tension spring (6).
- Unscrew the 4 pcs of the PT screw as shown on the picture and take out the plastic brackets (7).
- Dismount the motor socket (7).
- Dismount the both capacitors (8).
- Take out the process fan dismounting the mounted nut (9).
- Take out the motor as shown on the picture (10). It is important to take out motor assy through highlighted direction. This will prevent Heat Pump Tube assembly from any impact and damage.

14.2. 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).

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- Drum assembly lifted up direction and pull back slightly (11).





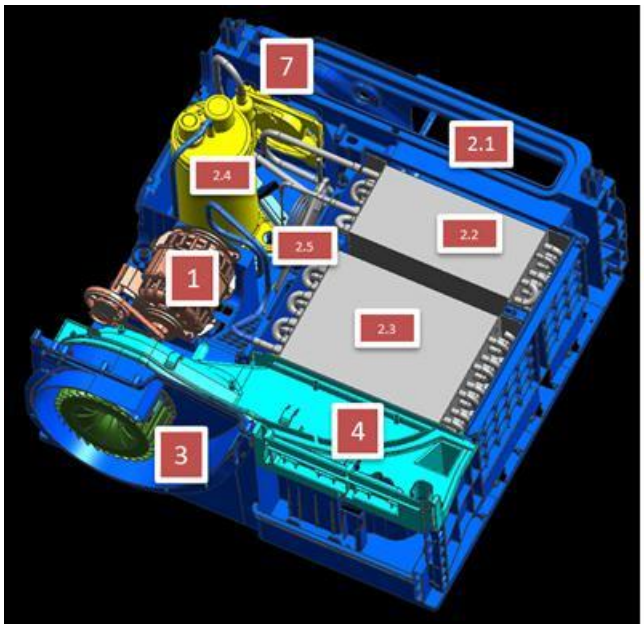
- To re-assemble the drum assy. to the dryer properly, the above pictures should be taken into account.

14.3. 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.

14.4. Base Parts Inside the Plastic Chassis:





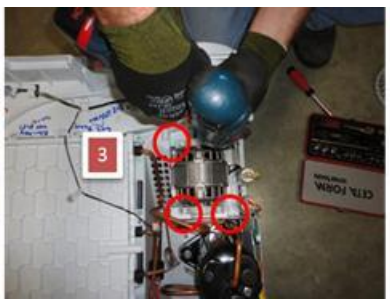


1. Motor Assembly
2. Assembly of HP System with Plastic Chassis
    1. Bottom plastic Chasis
    2. Heat Exhanger-Evaparator
    3. Heat Exhanger-Condenser
    4. Compresor Assy.
    5. Tube Assy.
    6. Plastic Cover
3. Process Fan
4. Plastic Air Guiding Part
5. Capacitors
6. Cable Harness
7. Cooling fan of the compressor

14.5. Service Details of Heat Pump System with Plastic Chassis:





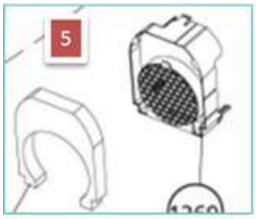




- Take out the process fan dismounting the nut and bolt (1)

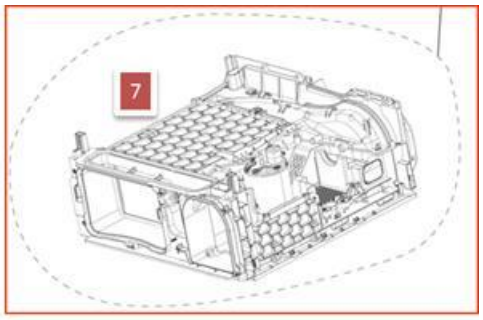
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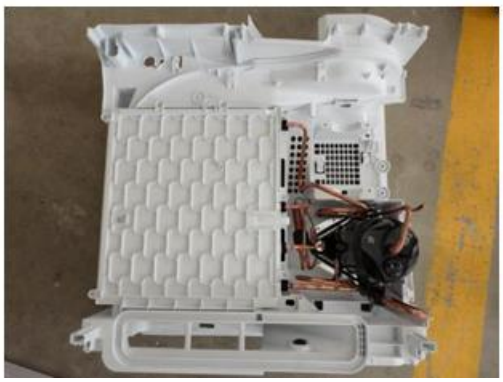
- Dismount both capacitors unplugging of their sockets (2)
- Unscrew 4 pcs of the PT screws and dismount the plastic brackets (3)
- Disassembly of motor part towards to highlighted direction avoiding any damage possibility on welded tube assembly. Disassembly direction of motor assy. is important interms of preventing tube assembly from any impact (4)











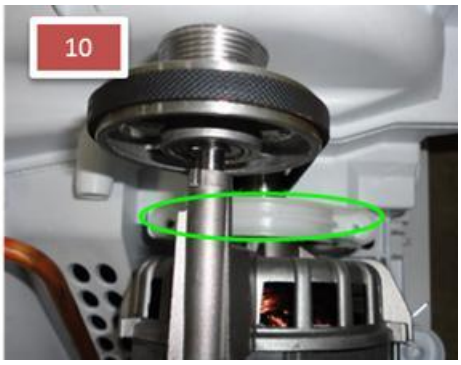


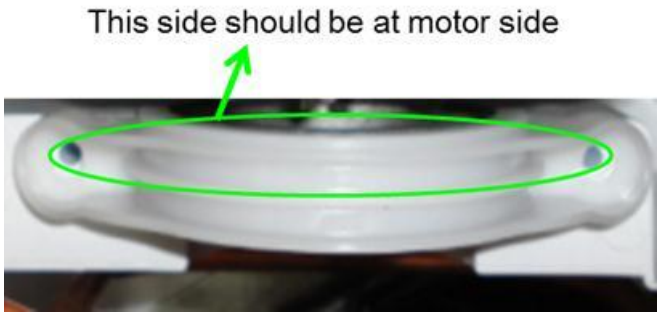
- Remove the highlighted parts respectively which are located in front of the compressor cooling fan (5).
- Unscrew the 2 pcs of PT screw which mounts the compressor cooling fan to the plastic chassis (6).
- Unplug the socket connection of the cooling fan to dismount it from the assembly of HP System (6).
- Change the new assembly of HP system with plastic chassis (7).
- Service user should check the packed assembly of HP system with plastic chassis in terms of including all parts referencing spare part list.
- Assemble each part reversibly as ordered below:
  - Compressor cooling fan (pay attention to assembly direction of part, see picture 6)
  - Highlighted parts (see picture 5)
  - Motor assembly
  - Pay attention to direction of the positioning on Plastic Chasis (Assembly direction of motor assy. is important in terms of preventing tube assembly from any impact (8))



- Assemble plastic brackets (mounting direction of the bracelets is important, see pictures (9)(10))







- Capacitors:
  - Pay attention types of the capacitors (Bigger capacitive capacitor should be at compressor side)
  - Harness





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- Cable connection of compressor (Grey cable is at S; red cable is at R; cable of thermic is at C)




Compressor Cable Connection of HP with Energy Classes of A+/A++ (A-50%)/A+++



Compressor Cable Connection of HP with Energy Classes of A++ (A-60%)

- Assemble each part & Assembly reversibly as ordered below:
  - Process Fan
  - Front Bearing Assembly
    - Pay attention to the harness
  - Front panel
  - Door NTC
  - Pump & Microswitch
  - Kick plates

- Control Panel
- Front Door Assembly

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.

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14.8. Service Details of Door Lock System:

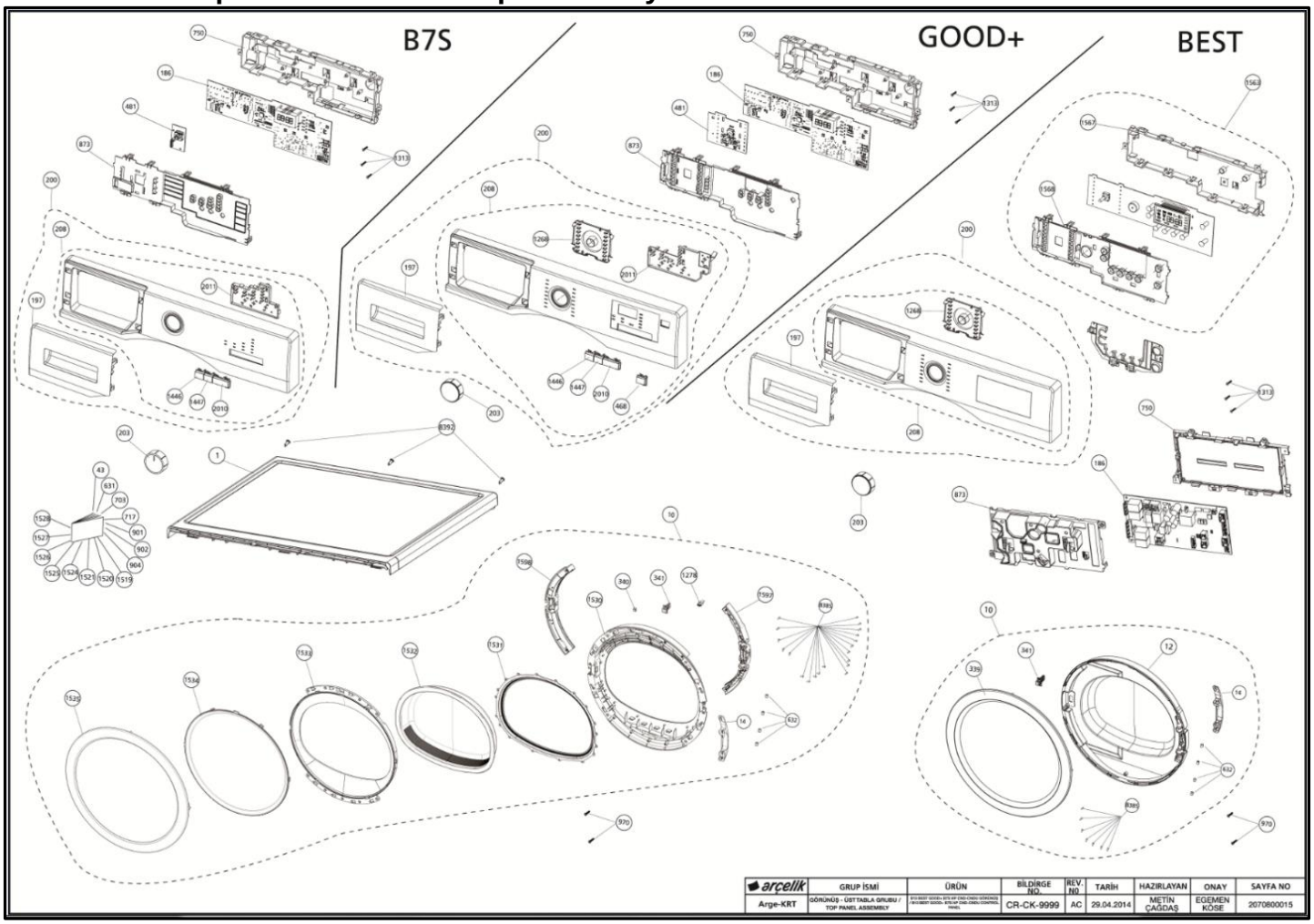





- Remove the top plate.
- Remove side panel on LHS.
- Disassemble the plastic housing as shown on the pictures.
- Take out the locking assembly working on inner side as highlighted on the picture.

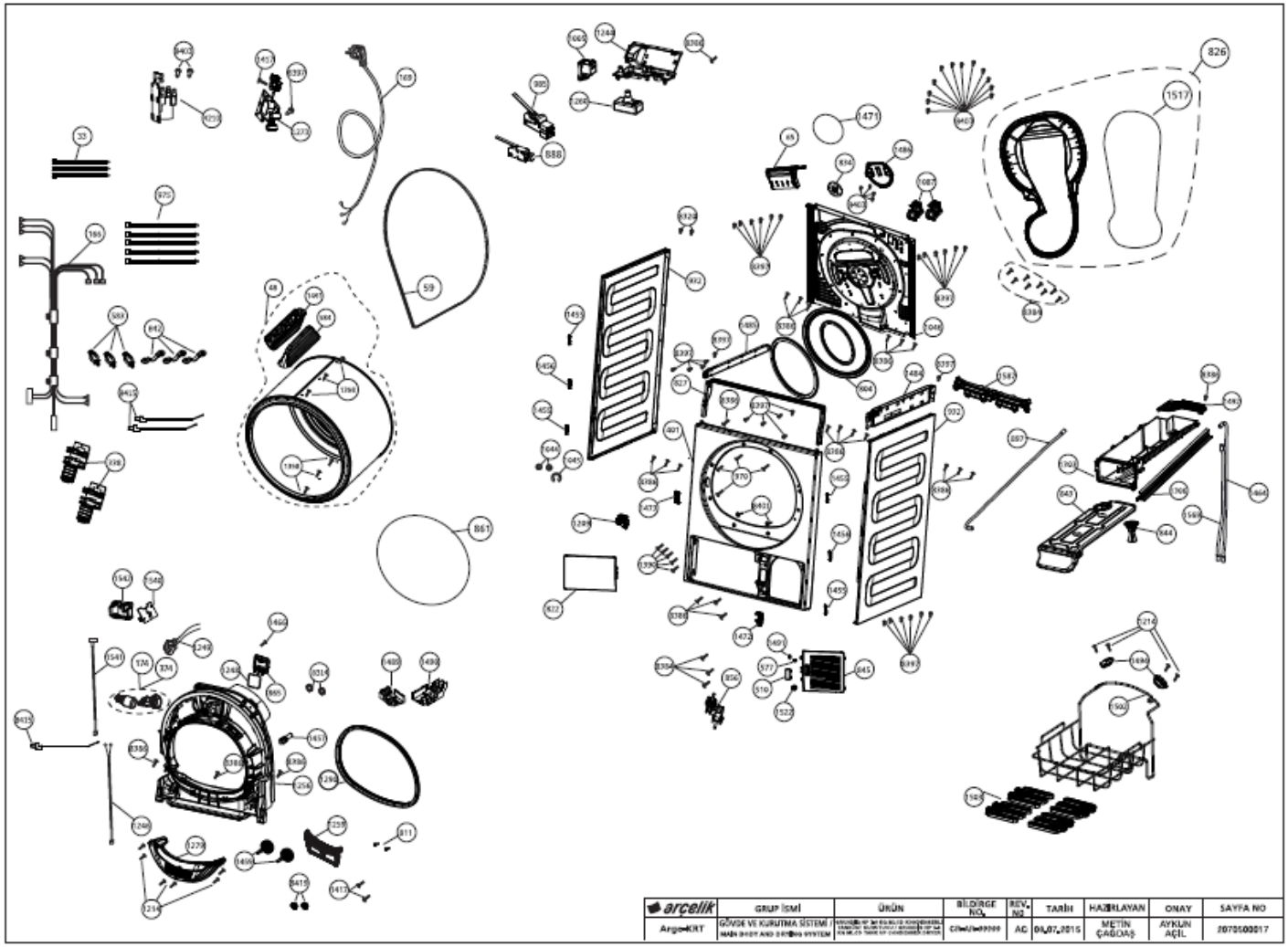
15. Exploded Views:

15.1. Front Panel – Top Panel – Door Group Assembly

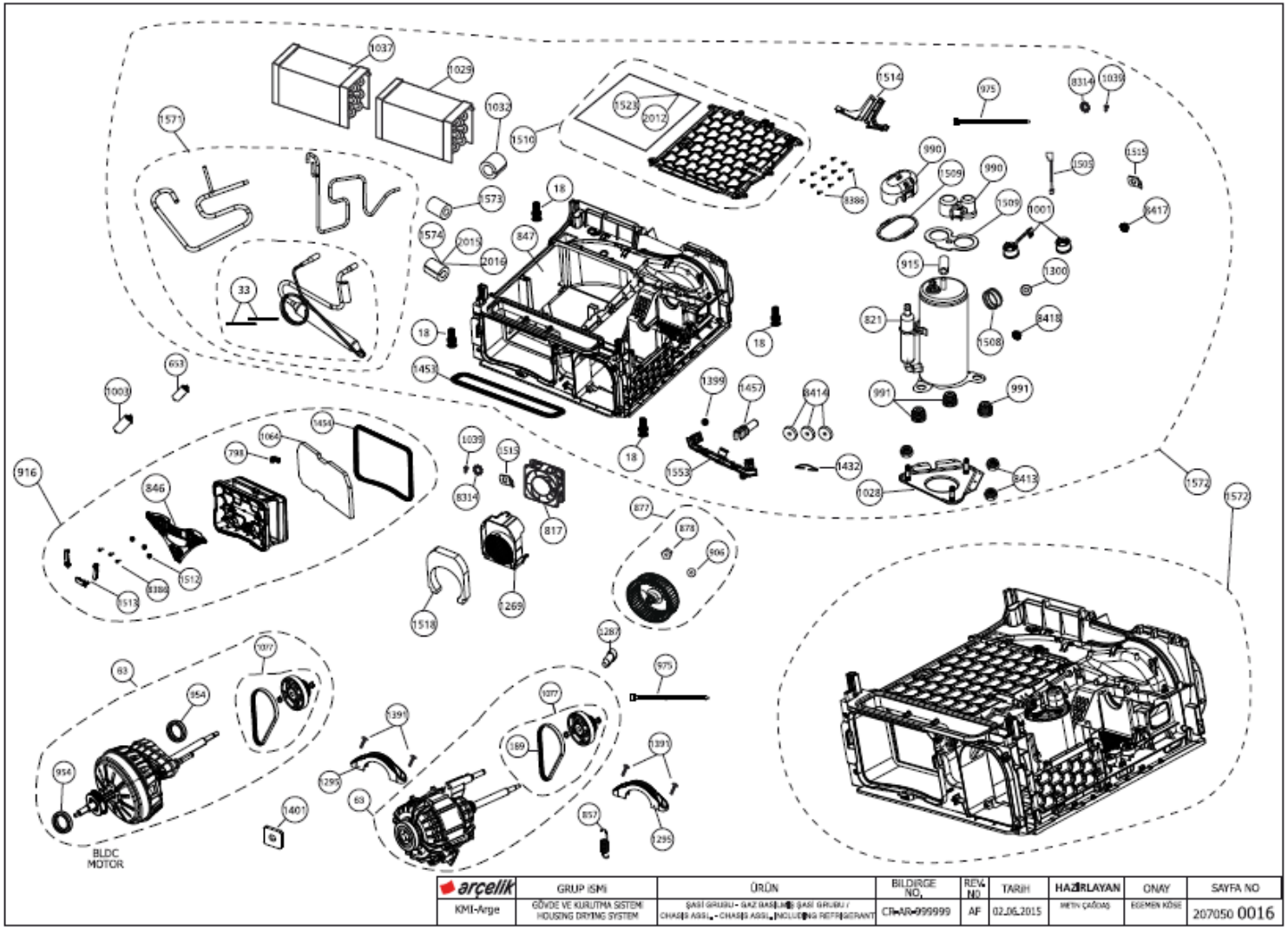


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15.2. Main Body and Drying System:



15.3. Chassis Assembly:



arçelik	GRUP İSMİ	ÜRÜN	BİLDİRGE NO.	REV. NO	TARİH	HAZIRLAYAN	ONAY	SAYFA NO
KMI-Arge	GÖVDE VE KURUTMA SİSTEMİ / HOUSING DRYING SYSTEM	ŞASİ GRUBU - GAZ BASILMIŞ ŞASİ GRUBU / CHASSIS ASSY. - CHASSIS ASSY. INCLUDING REFRIGERANT	CR-AR-999999	AF	02.06.2015	METİN ÇAĞDAŞ	EGEMEN KÖSE	207050 0016

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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	A Note is added to the service test step 10.
03	03.08.2016	Eco A+++ model details are added
04	26.12.2017	Technical spesifications updated

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