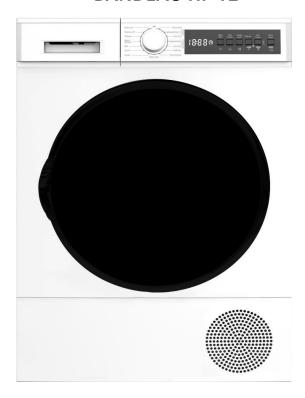


SECHE LINGE MANUAL DE SERVICE

BANDEAU HP T2



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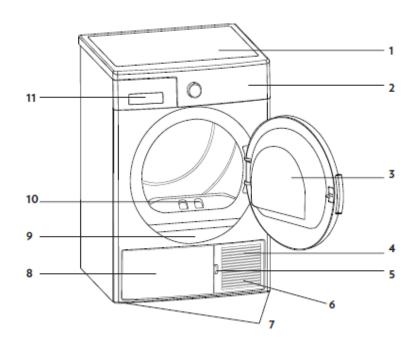
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CUSTOMER SUPPORT

1. OVERVIEW AND WORKING PRINCIPLE

- 1. Top Plate
- 2. Control Panel
- 3. Loading Door
- 4. Plinth
- 5. Plinth opening slot
- 6. Ventilation grills
- 7. Adjustable feet
- 8. Plinth cover
- 9. Type plate
- 10. Lint filter
- 11. Drawer Cover



1.2. Working Principle:

In the heat pump dryer machine, heated air is sent to the wet laundry in the drum from the heater side of the coil which called by condenser. The humidity of the laundry is taken and reaches the cold side of the coil which called by evaporator via filter. With a compressor, refrigerant is passed through inside of the tubes of coils both condenser and evaporator. A capillary causes resistance against to refrigerant flow. By this way, the evaporator surface is cooled and condenser surface is heated. The hot and humid air from the drum is reached cold evaporator surface and the humidity on it is left as water. The condensing water in the evaporator is pumped to the water tank by the pump.



CUSTOMER SUPPORT

2. TECHNICAL SPECIFICATIONS

| Manufacturer | Vestel White Goods | | | |
|--------------------------------|--------------------|--------------------|--|--|
| Capacity (max) | 7 kg (100LT) | 8 kg / 9kg (112LT) | | |
| HxWxD | 845x596x563 mm | 845x596x609 mm | | |
| Net weight (with plastic door) | 42,6 kg | 44 kg | | |
| Net weight (with glass door) | 45 kg | 46,4 kg | | |
| Voltage | 220-240V / 50 Hz | | | |
| Working Temp. | +5°C - +35°C | | | |
| Electrical Current (A) | 10 A | | | |
| Power | 1000 W | | | |

3. INSTALLATION

3.1. Issues that should be informed to customer

- 1. Drying machine must be grounded.
- 2. Lint filter must be cleaned after each use
- 3. Water tank must be unloaded after each use
- 4. Even if the heat exchanger cleaning warning les is not on : clean the heat exchanger after every 30 drying processes or once a month
- 5. The amount of laundry should be appropriate to program.
- 6. Use this product only for laundry with a label that indicates it is suitable for drying.
- 7. Children should not play with appliance.
- 8. This product contains environmental friendly but flammable **R290** gas. Keep open flame and fire sources away from the product.
- 9. Ventilation grills should not be closed.
- 10. The service life time of tumble dryer is 10 years.
- 11. Adjustable feet should not be removed.
- 12. There should not be lockable or sliding door in the installation area
- 13. Never spray or pour water onto the dryer to wash it. There is a risk of electric shock.

Please ensure that customer reads the user manual

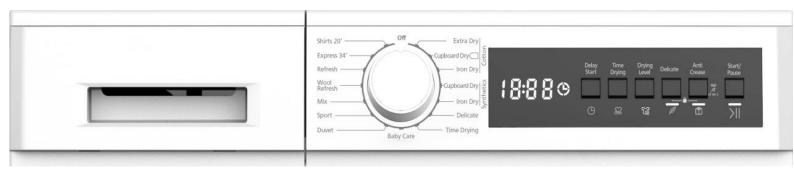
- 1. Check the environmental conditions. (Voltage, current etc.)
- 2. Ensure that product is used correctly
- 3. If the system displays failure code, find the corresponding code in the failure code list then act according to this.
- 4. Check the electronic connections



CUSTOMER SUPPORT

4. CONTROL PANEL AND PROGRAM SELECTION TABLE

4.1. Control Panel



Display Symbols

| Water tank warning indicator | |
|---|--|
| Lint filter cleaning warning indicator | |
| Heat exchanger cleaning warning indicator | |

4.2.Program List

| KNOB POSITION | PROGRAM |
|------------------|-------------------------|
| 1 | Cotton Extra Dry |
| 2 | Cotton Cupboard Dry |
| 3 | Cotton Iron Dry |
| 4 | Synthetics Cupboard Dry |
| 5 | Synthetics Iron Dry |
| 6 | Delicate |
| 7 | Time Drying |
| 8 | Baby Care |
| 9 | Duvet |
| 10 | Sport |
| 11 | Mix |
| 12 | Wool Refresh |
| 13 | Refresh |
| 14 | Express 34' |
| 15 | Shirts 20' |
| 16 | OFF |





CUSTOMER SUPPORT

- ***The machine has humidity sensor that detects whether the laundry dry or not. At the programs that work with humidity sensor laundry does not dry in fixed time. Duration is constantly updates according to humidity data taking from laundry.
- ***Time Drying Program: Humidity sensor is deactivated. The program ends when the time is up, without checking the humidity of the laundry.
- ***Express 34'/ Shirts 20 ': Humidity sensor is activated. The program time may extend, if the customer use different laundry according to the load in the program description.
- ***Delicate: This programme dries synthetics, such as shirts, t-shirts, blouses, at a lower temperature compared to the cottons programme.
- *** Refresh: Time drying option is selected from 10 minutes to 150 minutes without providing hot air, refresh is done and bad odors can be eliminated.

4.3. Children's Safety



There is a child lock option to avoid changes in the program flow when keys are pressed during the program. To activate child lock, press and hold "sw2" and "sw3" keys simultaneously for 3 seconds. When the child lock is active, all keys will be deactivated. Child lock will be deactivated automatically at the end of the program. When the child lock is being activated/deactivated, "CL" will flash on the display for 2 seconds and an audio warning will be heard.

Warning: when the product is running or the child lock is active, if you turn the program selection knob, you will hear an audible warning. Even if you set the program knob to another program, the previous program will continue running. To select a new program, you need to deactivate the child lock and then set the program selection knob to "Cancel" position. Then, you can select and start the desired program.



CUSTOMER SUPPORT

5. FAILURE MODES AND SERVICE AUTOTEST

***Service auto test must be run for every service call.



5.1. Failure Modes and Warning Leds

| HEAT PUMP MODEL ERROR CODES | | | | |
|-----------------------------|---|--|--|--|
| ERROR CODE | REASON | | | |
| E00 | Touch UI board doesn't receive communication from mainboard | | | |
| E03 / 😂 | Aquaswitch connector is disconnected | | | |
| E04 | Compressor connector is disconnected | | | |
| E05 | Compressor NTC connector is disconnected | | | |
| E06 | Door NTC connector is disconnected | | | |
| E07 | Motor connector is disconnected, motor is locked | | | |
| E08 | Voltage fluctuation | | | |

Notes For Service autotest:

^{*}Service can not pass the current step before completing the minimum duration

^{*}When minimum duration for each step (5 sec) is completed, filter led makes slow blink to indicate that service can pass the next step

^{*}For error codes, leds must make fast blink



CUSTOMER SUPPORT

5.2. Service Autotest Steps

| STEPS | Control | Minimum Step Duration* | Error code | Led Indication | Possible Errors |
|--|--|------------------------------|---------------|-------------------|---|
| The Routine to Enter Servis Autotest | Set program knob at position 3. Push SW5 button. Keeping SW5 button pushed, turn program knob to position 1. After 3 sec, SAU is shown in display. Then press Start/Pause button. Machine enters to service autotest. Machine shows the last error saved by machine. If there is no error, " " visualise on the display When knob positioned to program 2, control steps starts. | 5 sec | - | | |
| Step 2 (Knob Position 2) | Dryer check Aquaswitch, if aquaswitch ON go to next step (pump activation), if aquaswitch OFF give water tank full error | 10sec | E03 | - | *Aquaswitch connector is taken out *Aquaswitch connector is short circuit *Styrofoam is borken or not |
| Step 3 (Knob Position 3) | Pump is on | 5 sec | - | - | Service must pour water to pump reservoir and check whether water is pumped to tank. If water is not pumped to water tank; *Pump connector is taken out |



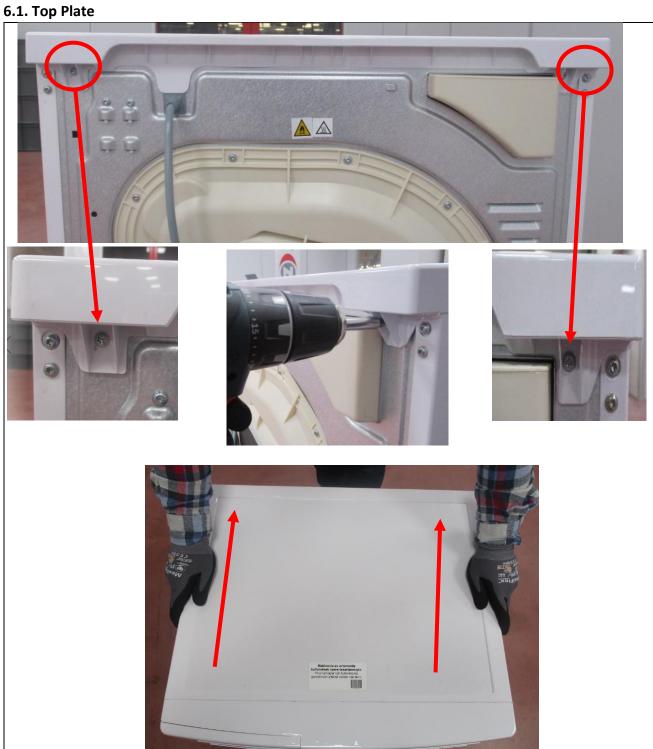
CUSTOMER SUPPORT

| Step 4 (Knob Position 4) | Motor CCW (Tumble CW)-Motor stops | 10 sec | - | - | Service must check whether tumble is moving to CW. If not; *Motor connector is taken out *Motor might be locked *Motor belt might be dislocated |
|---|---|--------|-----|---|--|
| Step 5 (Knob Position 5) | Motor CW (Tumble CCW) -Motor stops | 10 sec | - | - | Service must check whether tumble is moving to CCW *If tumble is moving to CW again, then motor relay short circuit CCW |
| Step 6 (Knob Position 6) | Check Heater NTC if heater NTC T=255 | 5 sec | E05 | - | *Heater NTC connector is taken out or short circuit |
| Step 7 (Knob Position 7) | Check Door NTC if heater NTC T=255 | 5 sec | E06 | - | *Door NTC connector is taken out or short circuit |
| Step 8 (Knob Position 8) | Compressor OFF- Motor CCW (Tumble CW) OFF- Cooling fan ON | 10 sec | - | - | Service must check power of at the home voltage and fan will be controlled manually by technical service. |
| Step 9 (Knob Position 9) | Compressor ON- Motor CCW (Tumble CW) - motor off | 10 sec | - | - | Service must check power of at the home voltage. |
| Step 9 (Knob Position 9) | Check conductivity sensor when door is opened and motor is off | 5 sec | E01 | - | Service puts his hand on the humidity sensor plates and software checks sensor data *If sensor data=0, humidity sensor connector is taken out |
| Remove the last error (Knob Position 1) | | 5 sec | DEL | DL is visualized on display and make fast blink for 2 sec for TO.DEL is visualized on display and make fast blink for 2 sec | When the knop positioned to program 1, service will pust the both SW4 and SW5 for T0/T1 (child lock mode). When the knop positioned to program 1, service will pust the both SW2 and SW3 for T2 (child lock mode). |



CUSTOMER SUPPORT

6. DISASSEMBLY

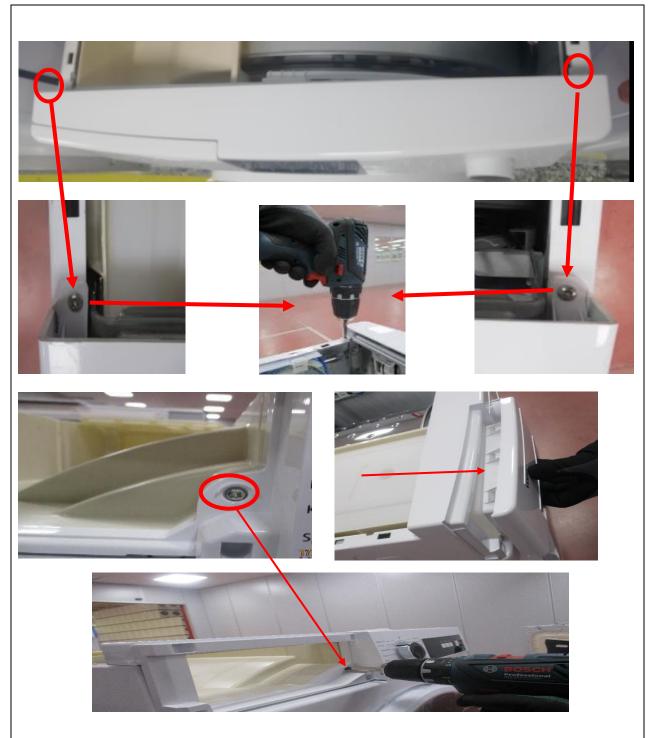


- 1. Remove two screws that fix the top plate at the back.
- 2. Remove by pulling the top plate to yourself.



CUSTOMER SUPPORT

6.2. Control Panel



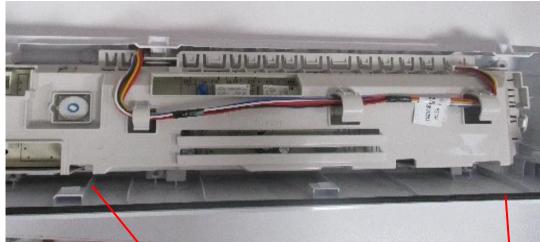
- 1. Remove 2 screws from the top.
- 2. After disassembly the water tank, remove 1 screw from front

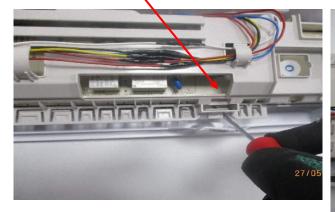


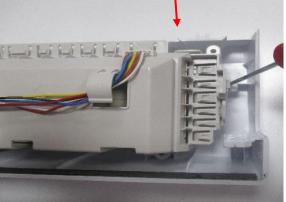
CUSTOMER SUPPORT

6.2. Control Panel









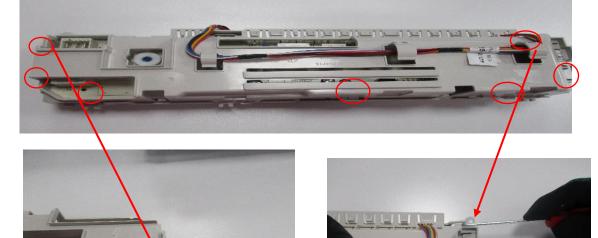
- 1. All sockets are removed from control panel
- 2. The cables on the control panel are carefully removed from the cable paths.
- 3. Remove the PCB box by pressing clips which provide fixing to panel So, PCB box will be separated from control panel

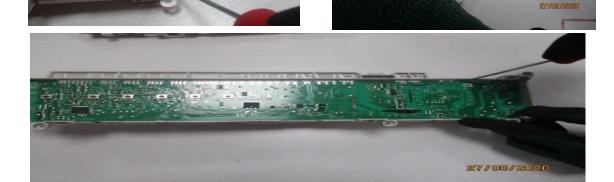


CUSTOMER SUPPORT

6.3. Electronic Card





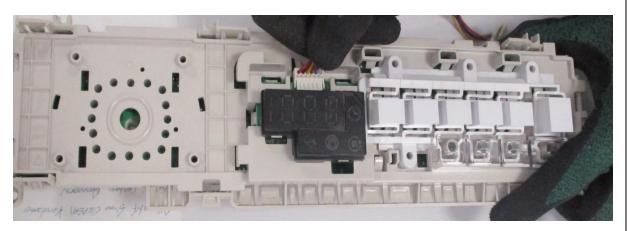


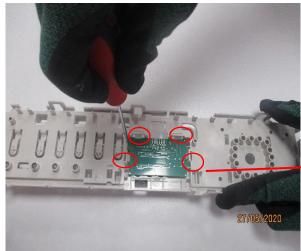
- 1. For opening the PCB box, press the clips (6 units) Care should be taken not to break the clips here.
- 2. The electronic card inside is removed from the nails. Remove the electronic card from pcb box as shown in the photo

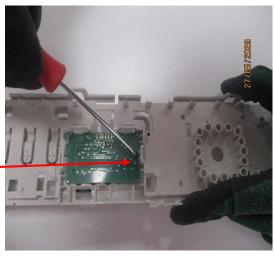


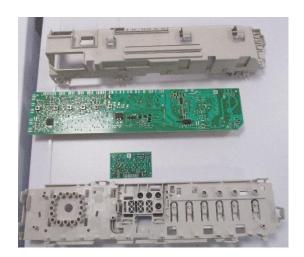
CUSTOMER SUPPORT

6.4. Display Card









- 1. Remove screw on UI card as shown in photo.
- 2. Display card on control panel is disassembled as shown in photo.



CUSTOMER SUPPORT

6.4. Side Panel



1. Remove 10 screws on side panels



CUSTOMER SUPPORT







- 2. Remove 2 screws from front
- 3. It should not be forgotten to take bottom screw (2 screws)
- 4. Remove the side plate which is pulled out screws , by pushing up



CUSTOMER SUPPORT

6.5. Supply Cable









- 1. Remove the supply cable brown and blue cable socket.
- 2. Remove the terminals with tool as shown in the photo
- 3. Remove supply cord by pushing up



CUSTOMER SUPPORT

6.6. Emi Filter











- 1. Remove EMI filter sockets
- 2. Remove the terminals with tool as shown in the photo
- 3. Remove the EMI filter which is fixed with 2 screws to the rear panel



CUSTOMER SUPPORT

6.7. Rear Cover







1. Remove all screws shown in the photo.



CUSTOMER SUPPORT

6.8.Pump











- 1. Remove the screw on pump cover
- 2. After opening the pump holder plastic cover, Remove 2 hoses that is connected with pump.
- 3. Remove aqua switch and pump socket.
- 4. Remove the pump holder plastic from basement plastic as shown in the photo



CUSTOMER SUPPORT

6.10.Pump



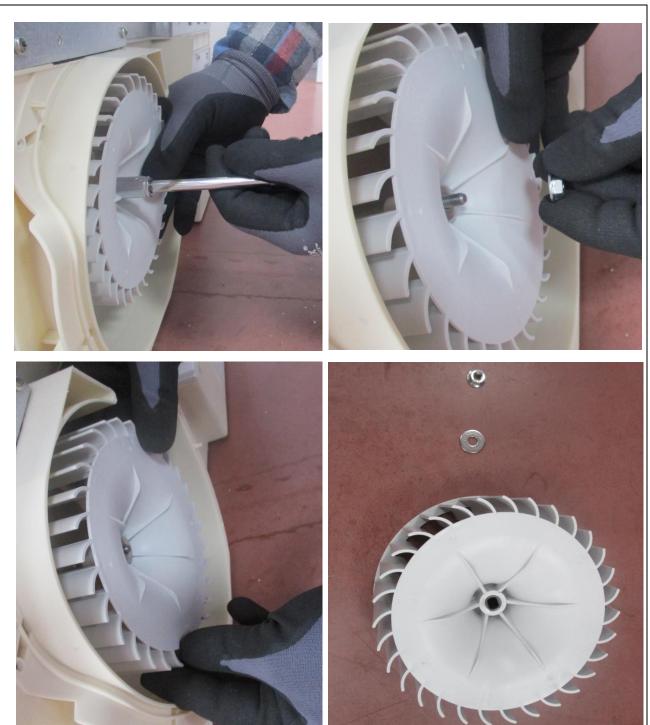


- 5. Push the pump from plastic.
- 6. There is a float in the pump housing as shown in the photo.



CUSTOMER SUPPORT

6.9. Process Fan



- 1. Hold the fan as shown in the photo.
- 2. First remove washer and nut then remove the process fan.



CUSTOMER SUPPORT

6.10. Rear Panel



- 1. Remove segment on rear panel.
- 2. Remove 8 screws from panel



CUSTOMER SUPPORT

6.10. Rear Panel





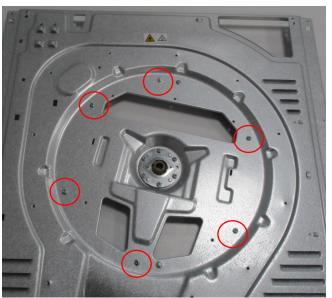
- 1. Remove hoses from rear panel
- 2. Remove the rear panel by pulling to yourself.

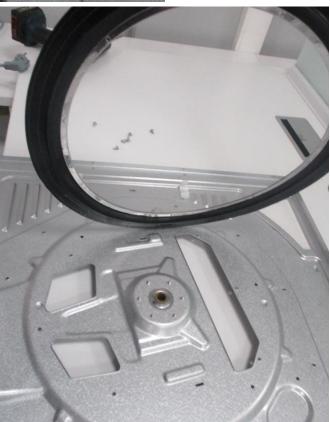


CUSTOMER SUPPORT

6.11.Rear Isolation Group







1. For disassembling the rear Isolation group on rear panel, screws are shown in the photo should be removed.



CUSTOMER SUPPORT

6.12. Rear Bearing Group





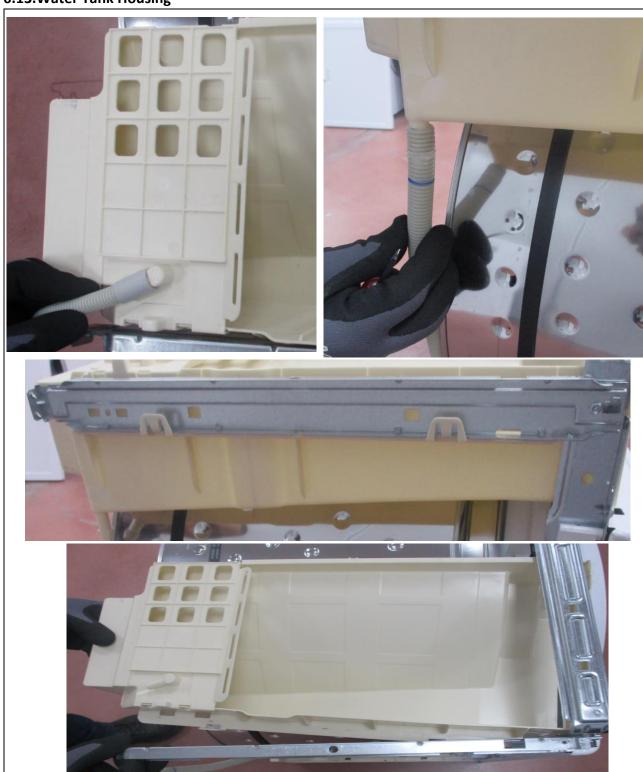


1. For disassembling the rear bearing group on rear panel, screws are shown in the photo should be removed.



CUSTOMER SUPPORT

6.13. Water Tank Housing

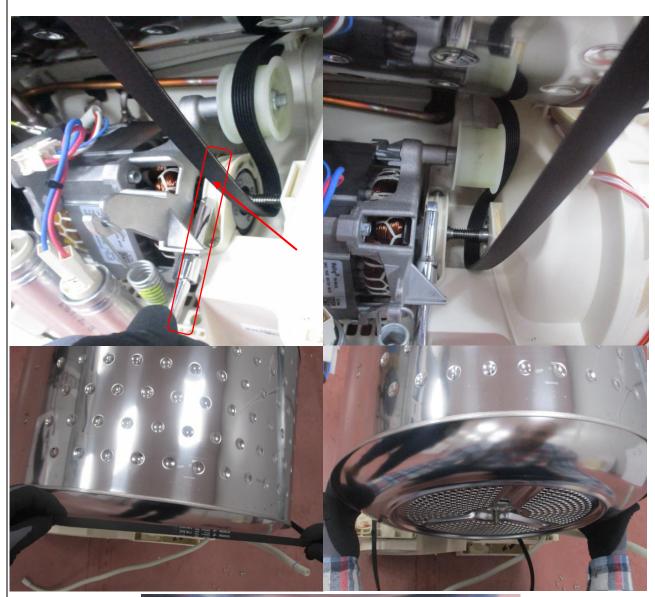


- 1. Remove 2 hoses from water tank housing.
- 2. Remove the water tank housing clips.
- 3. The water tank housing is removed as in the photo.



CUSTOMER SUPPORT

6.14.Drum





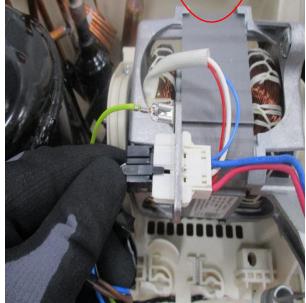
- 1. Motor should be moved up to prevent to press spring. **Spring must not be stretched more than 40 mm. End and beginning of the spring must not be deformed.** So, belt will be released as shown in the photo.
- 2. Remove the belt on the drum
- 3. Pull up the drum to separate with basement plastic. Then, pull back to remove.



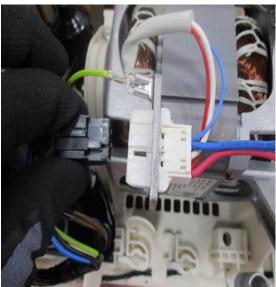
CUSTOMER SUPPORT

6.15. Motor









1. Remove capacitor sockets and other sockets from motor.

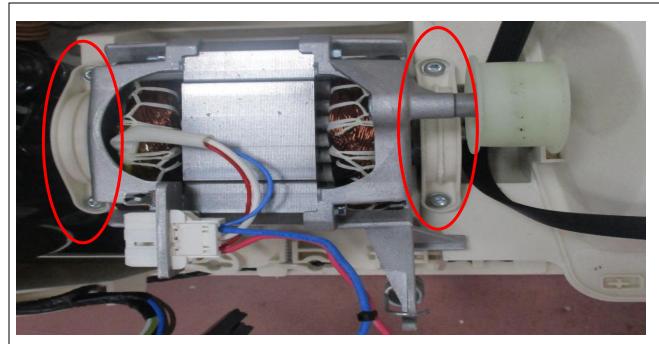
PS: before removing the motor, process fan should be removed.

You can apply the same instruction to change the belt



CUSTOMER SUPPORT

6.15.Motor





- 2. Remove 4 screws from motor fixing plastic
- 3. Take the motor from basement plastic as shown in the photo.



CUSTOMER SUPPORT

6.16.Capacitors







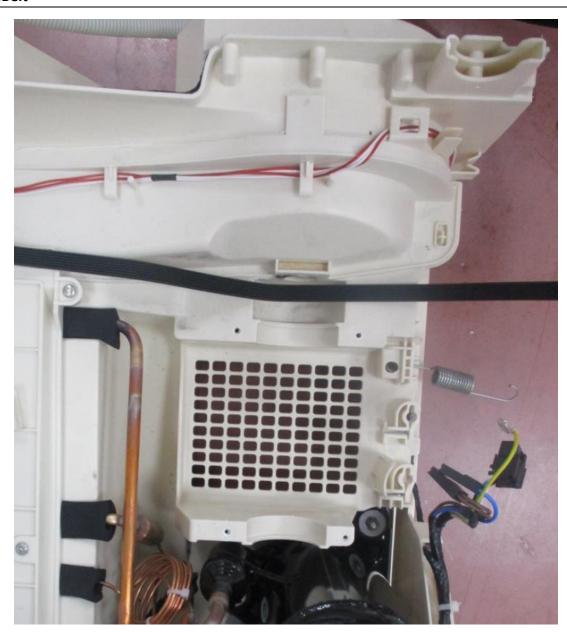


- 1. Remove all sockets from motor.
- 2. Remove the screw on bottom of capacitor then disassemble the capacitor
- 3. The capacitor is removed by turning.



CUSTOMER SUPPORT

6.17.Belt

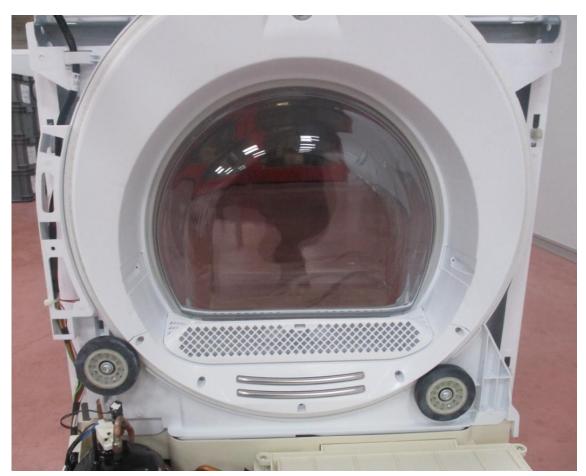


1. After you should remove drum and motor than change the belt.



CUSTOMER SUPPORT

6.18. Humidity Sensor





- 1. Remove 5 screws from humidity sensor plastic.
- 2. Remove the humidity sensor cable as shown in photo.

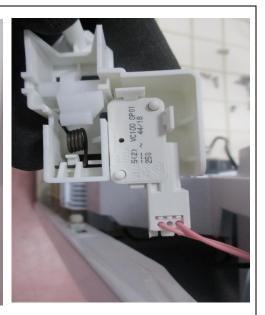


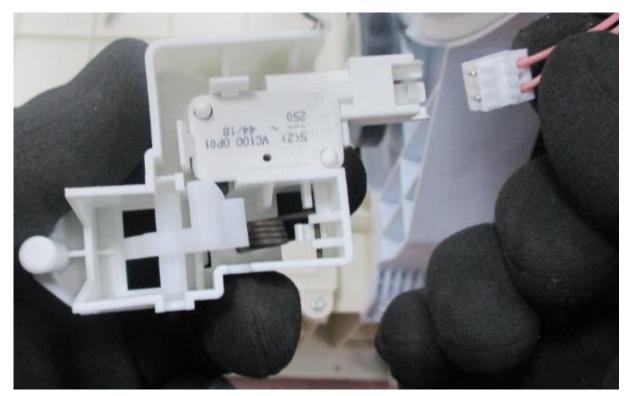
CUSTOMER SUPPORT

6.19. Door latch









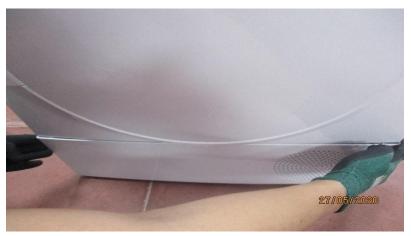
- 1. Remove door latch screw from front panel.
- 2. Separate the door latch socket from door latch as shown in the photo.



CUSTOMER SUPPORT

6.20. Plinth







1. Open the plinth as shown in the photo



CUSTOMER SUPPORT

6.21. Cooling Fan Cover











- 1. Remove screws on cooling fan fixing plastic
- 2. Remove the cooling fan fixing plastic as shown in the photo.
- 3. Disassemble the cooling fan by removing the fan screws and fan ground wire.



CUSTOMER SUPPORT

6.21. Plinth Cover



1. Remove 2 plinth pin on Plinth cover.



CUSTOMER SUPPORT

6.22. Door







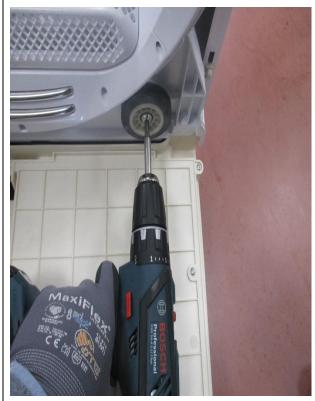
- 1. Remove 2 screws that fix the door.
- 2. Pull the door by lifting up.



CUSTOMER SUPPORT

6.23. Drum Bearing Wheel







1. Remove wheels as shown in the photo



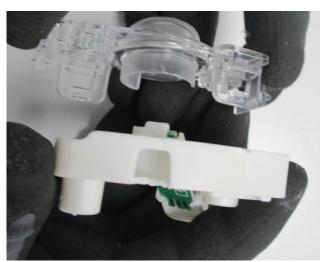
CUSTOMER SUPPORT

6.24. Drumlight











- 1. Remove Drumlight group from Front Shield
- 2. Remove the drum light socket.
- 3. Remove the drum light card.



CUSTOMER SUPPORT

6.25. Front Panel



- 1. Remove 16 screws on the front panel
- 2. While removing the front panel, the cable of the door latch must also be removed.



CUSTOMER SUPPORT

6.26. Door NTC



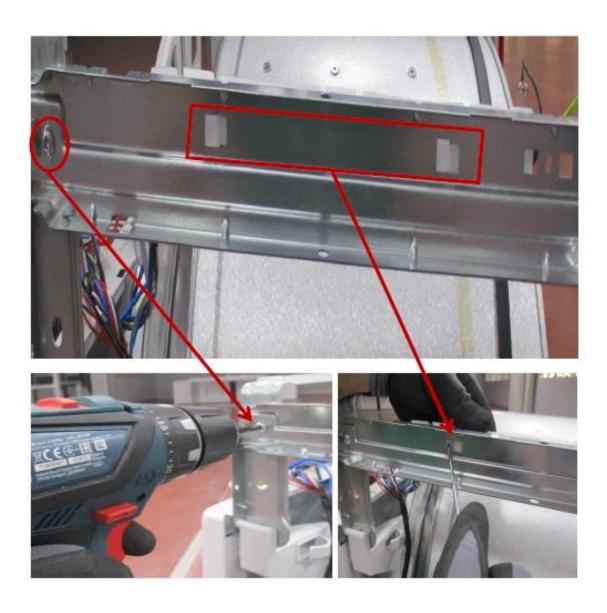


- 1. Remove the socket from NTC sensor on the basement plastic.
- 2. Remove the NTC from basement plastic by hand or tool.



CUSTOMER SUPPORT

6.27. Side Bracket



- 1. Remove cable holder plastic clips shown in the photo. (For right side bracket)
- 2. Remove screw from bracket which is fixing side bracket and top bracket. (Rear panel was removed before.)



CUSTOMER SUPPORT

6.28. Front Shield







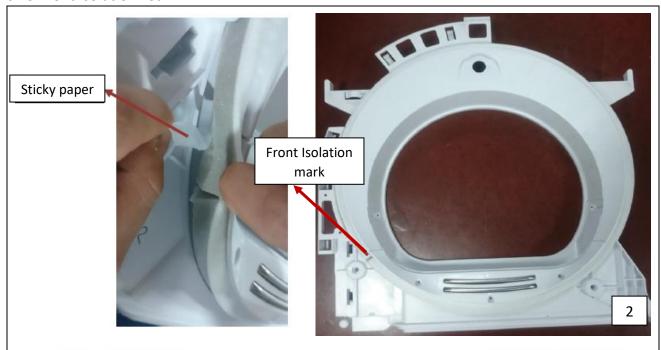


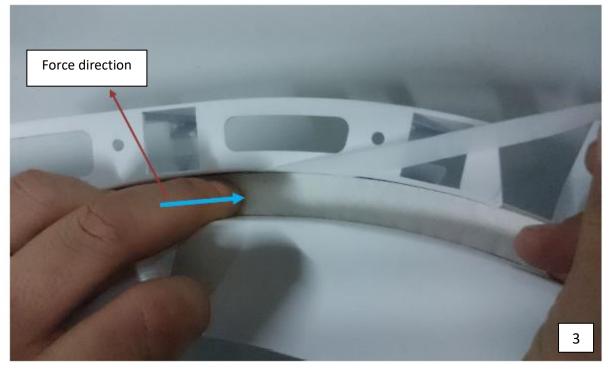
- 1. Remove 2 screws in the bottom.
- 2. Open clips on the left side.
- 3. The front shield should be lifted as shown in the photo.



CUSTOMER SUPPORT

6.29.Front Isolation Foam





- 1. It is important to install the new felt correctly after it has been removed from the slot at the front shield.
- 2. Before Sticky paper is opened, front isolation foam should be placed to slot on front shield. Front isolation foam mark should be on left bottom of front shield.
- 3. Stick the foam on front shield as shown in the photo.
- 4. Isolation should be centered on slot



CUSTOMER SUPPORT

6.30. Cable Group

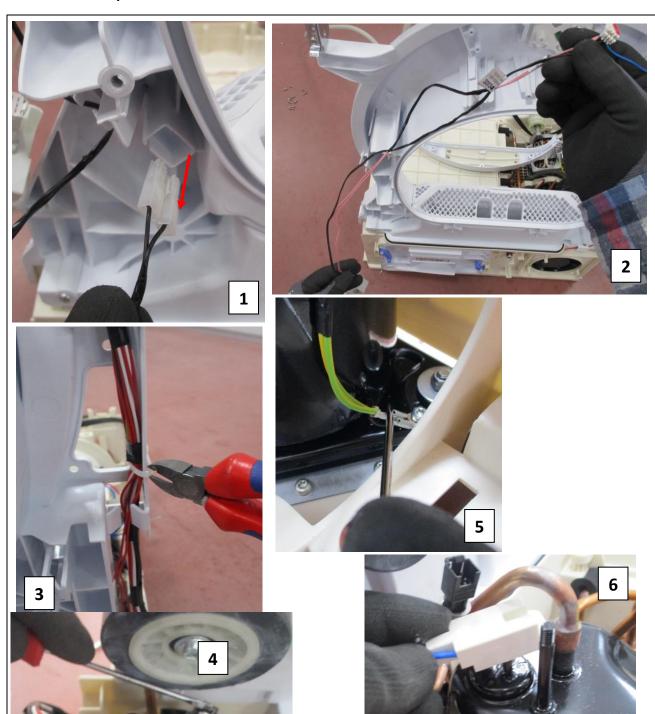


- 1. Open the cable holder plastic clips on side bracket.
- 2. Remove cable holder plastic fixing clips as shown in the photo.



CUSTOMER SUPPORT

6.30. Cable Group



- 1. Humidity Sensor Cable
- 2. Door Latch Socket Cable
- 3. Cable Group of Front Shield

- 4. Compressor NTS Socket
- 5. Compressor Ground Cable
- 6. Compressor Socket

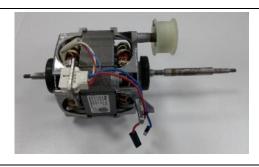


CUSTOMER SUPPORT

7. COMPONENT SPECIFICATIONS AND MEASUREMENTS

7.1. Motor

The dryer has an asynchronous motor. In the photo on the right, the socket on the motor are shown to be measured by multiple counters. It is driven with triac via the electronic card (to give energy) and relay (for direction control).



Technical Features

Type: single-phase asynchronous motor Power: 200 W (Unloaded drum)

Main windings: 21.5±7% (20 °C temp.)
Aux windings: 19.5±7% (20 °C temp.)

Motor speed: 2750 rpm (Unloaded drum)

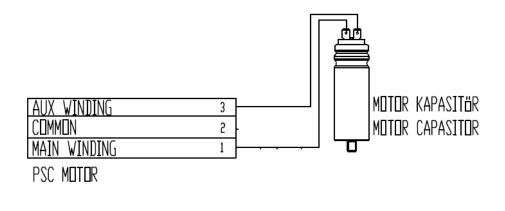
Drum speed: 52 ± 2

Capacitor value: 11 µF ± %5

Component Test

- Check whether the motor cable is connected to the motor connector.
- Check the connection of the capacitor cables
- Measure the resistance values and check the capacitor values
- Check whether it is working by connecting via the terminals 1 and 2 (Blue-White) connection
- If it is working, revolution of the drum is measured in unloaded state.

The terminals 1-3 of the motor should be connected with capacitor Resistance measurement of main winding: Terminal 1 -2 (Blue-White) is measured. Resistance measurement of aux winding: Terminal 3 -2 (Red-White) is measured.





CUSTOMER SUPPORT

7.1.1. Motor Measurements





CUSTOMER SUPPORT

7.2. Pump

In Tumble Dryer models, the pump is used to transport the water that accumulates in the condensation chamber to tank in the drawer area. One triac is measured on the electronic card.



Technical Features

Resistance: 764±10% ohm

Voltage: 220-240 Volt Frequency: 50 Hz Input Power: 13W max

Component Test

- Check the connection of the pump connector
- Check the pump resistances
- Check whether pump is working, by feeding externally
- If the pump is working, the water in the tank is unloaded by running the pump Then, Unload 500 ml of water from water tank to pump reservoir and check whether water is pumping.
- While pump is working, if water is not reached into water tank, hoses should be checked.



CUSTOMER SUPPORT

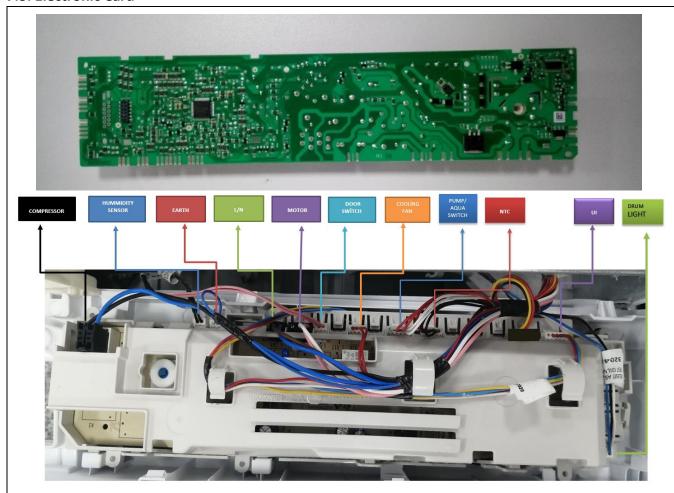
7.2.1 Pump Measurements





CUSTOMER SUPPORT

7.3. Electronic Card



Technical Features

Electronic card is single sided printed circuit board and CEM-1 material

The upper picture shows where the components sockets are inserted.



CUSTOMER SUPPORT

7.4. Door/Compressor NTC Sensor

Two NTC sensors are used. The NTC resistance decreases when the temperature rises.



Technical Features

Door NTC Resistance : 12 k Ω (Measured from IDC connected to electronic card) Compressor NTC Resistance : 12 k Ω (Measured from IDC connected to electronic card)

Component Test

• Resistance is measured from IDC connected to electronic card

7.4.1. Door NTC Sensor Measurements





CUSTOMER SUPPORT

7.5. Compressor

The dryer has an compressor with an asynchronous motor. In the photo on the right, the terminal on the compressor are shown to be measured by multiple counters. It is driven with relay via the electronic card (to give energy) and relay drive the compressor only one direction.



Technical Features

Type: single-phase asynchronous motor

Input Power: 430 W (Unloaded drum) Main windings: 9.3±7% (25 °C temp.)

Aux windings: 8.75±7% (25 °C temp.)

Gas Type: R290

Capacitor value : 20 μF ± %5

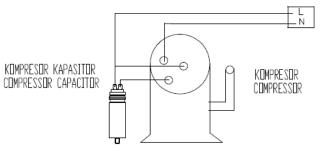
Compressor Capacity: 6.8 cm³/rev

Motor speed: 2928 rpm (Unloaded)

Component Test

- Check whether the compressor cable is connected to the compressor terminal.
- Check the connection of the capacitor cables
- Measure the resistance values and check the capacitor values
- Check whether it is working by connecting via the terminals S,R and C connection
- If it is working, start the machine and check the drum temperature.

The terminals S and R of the motor should be connected with capacitor. Resistance measurement of main winding: Terminal C-R is measured. Resistance measurement of aux winding: Terminal C-S is measured.





CUSTOMER SUPPORT

7.5.1. Compressor Measurements





CUSTOMER SUPPORT

7.6. Door Latch

Door latch locks when the door is closed. It's designed to be opened from inside, in case of children are in the drum



Component Test

- When the door is closed, check whether there is electrical transmission from IDC connected to electronic card
- Check the connection of the component connector

7.6.1 Door Latch Measurements





CUSTOMER SUPPORT

7.7. Humidity Sensor

The Humidity Sensor measures the amount of dryness of the laundry in the drum.



Component Test

- Each humidity sensor plate is checked whether there is electrical transmission from IDC connected to electronic card.
- Check the connection of the component connector

7.7.1 Humidity Sensor Measurements





CUSTOMER SUPPORT

7.8. Cooling Fan

The dryer has an cooling fan with an asynchronous motor. In the photo on the right, the terminal on the compressor are shown to be measured by multiple counters. It is driven with triac via the electronic card (to give energy)



Technical Features

Type: single-phase AC fan

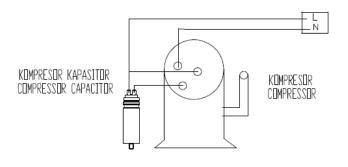
Power: 28 W

Main windings: 600±7%

Motor speed: 2600/3000 ±10%

Component Test

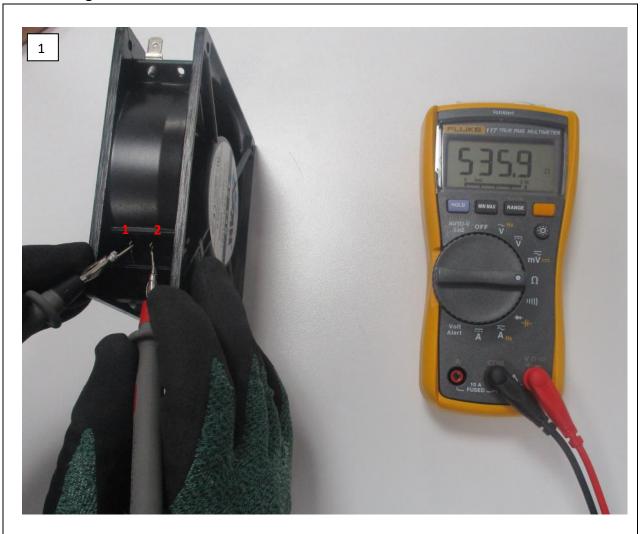
- Check whether the cooling fan cable is connected to the fan terminal.
- Measure the resistance values





CUSTOMER SUPPORT

7.8.1. Cooling Fan Measurements



7.9. Drumlight

Drumlight lights inside of the drum



Component Test

Check whether there is electrical transmission from IDC connected to electronic card.



CUSTOMER SUPPORT

8. TROUBLESHOOTING

