

		Dryer electronic control
© Electrolux Home Products Italy S.P.A. Corso Lino Zanussi, 30	Publication no.	ACTION
I-33080 Porcia - PN -	599 70 60 66	Stylings
Fax 0039 - 0434 394096	EN	AD1 - AD2 -Ad3
SOI		
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1 INTRODUCTION

1.1 Purpose of this Manual

The purpose of this Service Manual is to provide service engineers who already have the basic knowledge necessary to repair dryers with information concerning condenser dryers with electronic control systems.

The electronic control consists of a main board having an integrated selector and on some models a LCD display, supplied already mounted and tested by the building factory.

This Service Manual describes the following aspects:

- General characteristics.
- Control panel and drying programmes.
- Description of operation.
- Drying circuit.
- Electrical components.
- Diagnostics guide.
- Accessibility.

1.2 Important

1.3 Installation

- The appliance must be installed on a perfectly level surface in order to ensure that the condensed water flows correctly into the tank.
- The feet must NOT be removed. The gap between the bottom of the dryer and the floor is essential to prevent overheating.

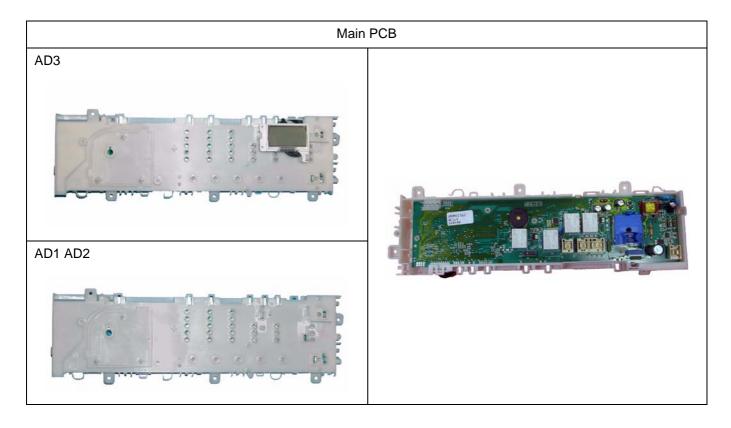
2 TECHNICAL CHARACTERISTICS

2.1 Technical data

	Height:	85 Cm		
Dimensions of appliance	Width:	60 Cm		
	Depth:	58 Cm		
Dowor oupply	Volt:	220 - 240		
Power supply	HZ.	50/60		
No. pushbuttons	3 on AD1 models 5 on AD2 models 7 on A	D3 models		
	AD1 8+1 Bicolour on start button (red gree	n).		
N° LEDs	AD2 11+1 Bicolour on start button (red gre			
	AD3 8+1 Bicolour on start button (red gree	n).		
Type of display	LCD on AD3 models.	LCD on AD3 models.		
Buzzer	Buzzer incorporated in the PCB.	Buzzer incorporated in the PCB.		
Serial port	DAAS-EAP protocol up to 230400 baud.			
Programme selector	15 positions conduct. models.	With ON/OFF switch integrated.		
Fiogramme selector	15/25 positions on temperom. models	With ON/OFF Switch Integrated.		
Drying system	Condensation of humidity by heat exchange	er.		
Humidity control	Conductimetric sensor.	Conductimetric sensor.		
Motor	Single-phase asynchronous motor with ca	Single-phase asynchronous motor with capacitor.		
Power of heater unit	Version 220 - 240 V 2200 W 1400 W + 800W			
Temperature control	NTC Sensor.			
Capacity of canister	Condensation tank 4I approx.			
Canister fill pump	Synchronous motor.			

2.2 Electronic boards

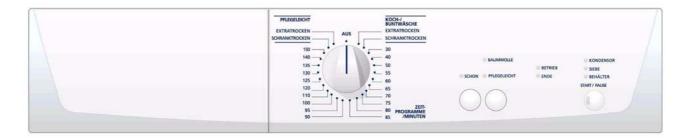
The electronic control system consists of a main PCB having an integrated selector and also a LCD display (in some models) supplied already mounted and tested by the building factory.



3 CONTROL PANEL

3.1 Stylings

AD1



AD2



AD3



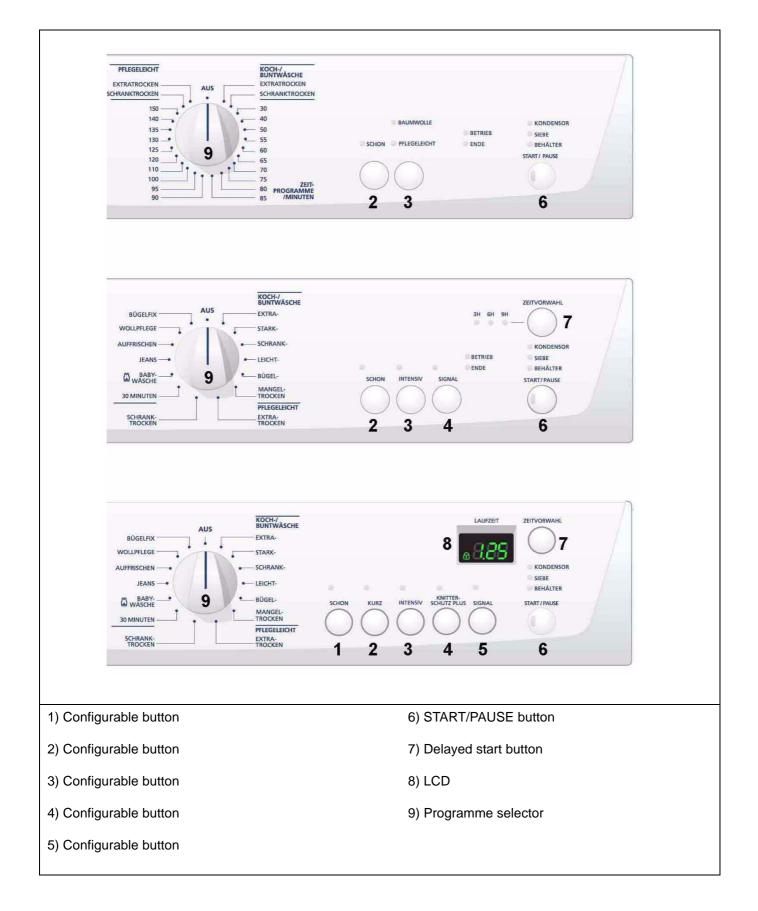
3.2 Programme selector

The selector has 15 positions on conductimetric models and 25 positions on temperometric models with integrated ON/ OFF button.

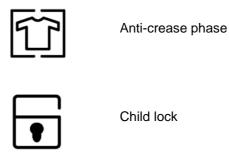
All positions can be configured depending on the model The symbols represent the different possibilities of drying the various fabrics COTTON SYNTHETICS SILK and WOOL



3.3 Buttons



3.4 Symbols on stylings with LCD



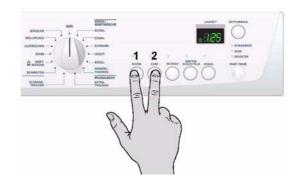
Child lock



Time-to-end / Alarm code

3.5 Child protection (on some models)

By pushing simultaneously for 5 seconds the buttons 1 and 2 on AD3 models the child protection is activated, all buttons are disabled and no modification is allowed. To deactivate this protection, push the same buttons again



3.6 Delicate ¹/₂ power (on some models)

The dryer features a heating unit which consists of two heating elements, and according to the versions the powers are different.

Pressing once the button, the electronic control excludes the less powerful branch of the heating unit and simultaneously the LED lights up to indicate that the option has been selected; pressing it again, the LED switches off to indicate that the option has been deactivated and the previously excluded branch will be powered again during the cycle execution.

3.7 No buzzer

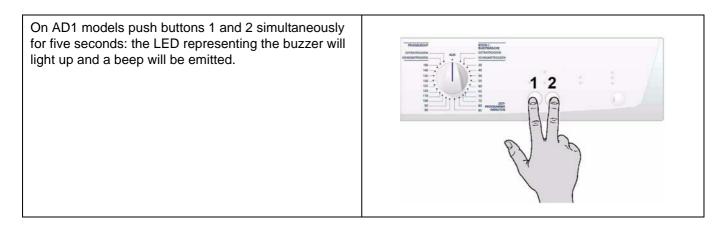
Option to be selected when the dryer is in selection mode (set-up).

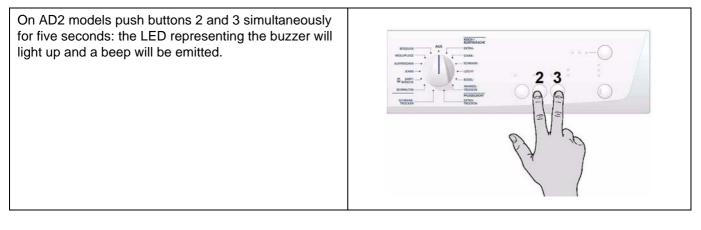
Press this button to exclude the buzzer: the exclusion is signalled by the switching on of the LED. To reactivate the option, press the button again

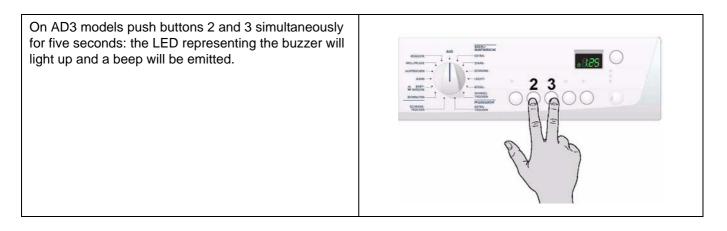
Even if the buzzer is excluded, the alarm acoustic signalling remains active.

3.7.1 Exclusion of the buzzer (not only for the affected cycle)

Selection to be made during the selection phase (set-up):







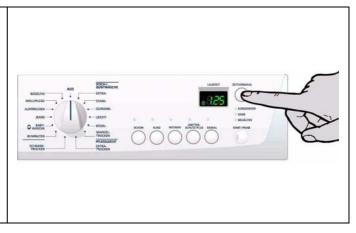
To reactivate the buzzer, push the key combination above described again till the buzzer emits a "Beep"

3.8 Delayed start button

Pressing this button it is possible to select, during the programme selection phase, a delayed start. On AD3 models the time varies up to 20 hours; the time is shown in the Display Every time the button is pressed, the time displayed

For the first two hours, the step is about half an

- hour.
- Later, the step is one hour.
- To cancel the delay, move the selector by one position or press the button till the display is reset.



This option must be selected in all models after selecting the programme and before pushing START/PAUSE.

3.9 START / PAUSE button

Start

When a drying programme is selected with the selector, the icons of the three phases (drying, cooling, anticrease) light up and the LED START/PAUSE flashes.

After having selected the options, press this button to start the cycle; the relative LED remains lit.

Pause

If a drying cycle is being executed, pressing the START/PAUSE button, the dryer interrupts the cycle and is in PAUSE mode; the relative LED flashes.

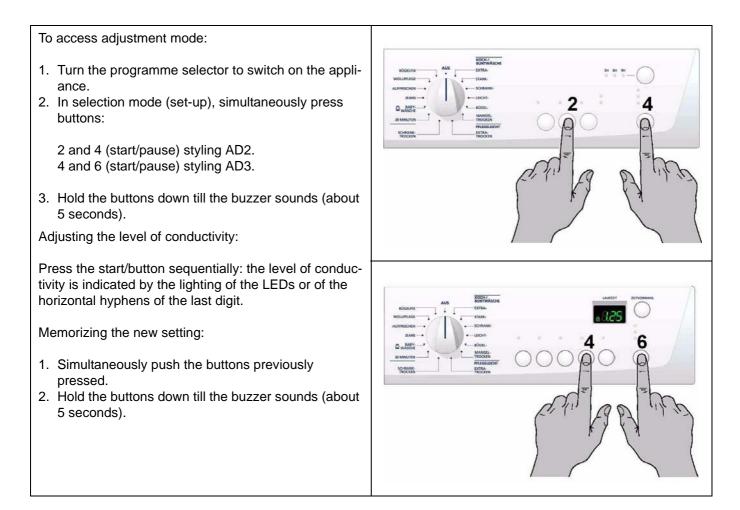
Pressing the START/PAUSE button, the drying cycle starts from the point at which it was interrupted.

3.10 Adjusting the level of conductivity (on some models)

The conductivity of the water used to wash the fabrics varies from zone to zone: the conductimetric sensor is calibrated to a standard value; any major variations in the level of conductivity may affect the final drying result (i.e. the washing may be too dry or too humid):

These variations are more noticeable in the "slightly damp" or "iron-ready" cycles; the "cupboard dry cycles" are almost entirely unaffected by variations in conductivity.

3.10.1 Regulation procedure



3.10.2 Displaying conductivity settings

Display LED	Conductivity degree	Approximate value (µS/cm)
ECOL	LOW	< 300
ZEITVORWAHL GH SH GH SH SH SH SH SH SH SH SH SH SH SH SH SH S	MEDIUM	300 - 600
ZEITVORWAHL H 9H KONDENSOR SIEBE BEHALTER START/RAUSE DEHALTER	HIGH	> 600

Normally, the appliance is factory-set to the highest level; however, certain models may be configured differently.

Your local water supply company can give you information concerning the conductivity of the water in your area.

3.11 Warning LEDs

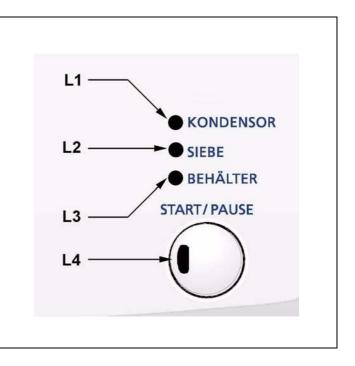
L1 Heat exchanger cleaning (condenser): It lights up after 80 drying cycles.

To reset the cycle counter (for this function), open the door with the appliance on, extract the heat exchanger, clean it and recluse the door.

L2 Filter cleaning: It lights up when the dryer has terminated the cycle to warn the user to clean the fluff filter.

L3 Tank full: It lights up durino the drying cycle if the electronic circuit detects the closing of the floating microswitch and at the end of the cycle to warn the user to empty the tank.

L4 Start/Pause: It lights up with green flashing light when the cycle is in pause; it lights up with green fixed light when the cycle is running regularly. If there is an alarm three beeps will be emitted that will be repeated after some seconds and the LED becomes red with flashing light.



4 Description of operation of the appliance

When the selector is turned from OFF position to a drying programme, the icons relative to the drying phases light up and the START/PAUSE LED flashes with green light.

During this phase the various options can be entered, and the corresponding LEDs will light.

The lower right display shows the maximum time of drying cycle. If an option that is incompatible with the selected cycle is entered, the Buzzer sounds, the Display shows Err. The LEDs instead flash

Selecting one or more options the Display shows an increase or decrease of the time. If the position of the selector is changed after choosing the options, but before pressing START/PAUSE button, the options will be cancelled.

4.1 Operation of a cycle

A drying cycle starts after a programme has been selected using the selector, one option (if necessary) has been selected and the START/PAUSE button has been pressed.

The LED corresponding to the START/PAUSE button remains lit with green light and, at the same time, the LED corresponding to the phase currently being performed lights and the display shows the maximum drying time.

The drying cycle consists of the following phases:

DRYING

If the cycle is automatic, its duration will be the time necessary to remove the humidity until the desired degree of final humidity is reached (maximum cycle time 180 minutes at full power and 240 minutes at half power).

If the cycle is timer-controlled, the duration will be the time selected by the user.

COOLING

For timer-controlled cycles, the maximum duration of the cooling phase is 10 minutes; for automatic cycles the duration depends on the temperature inside the drum.

ANTI-CREASE

The duration of the anti-crease cycle is 30 minutes.

No modifications to the programmes can be entered after the drying programme has started

If the position of the selector is changed, the green LED of the START / PAUSE button starts flashing, the buzzer sounds to warn the user that an incorrect operation has been attempted and the display shows Err.

If any button is pressed, the green LED of the START / PAUSE button starts flashing, the buzzer sounds to warn the user that an incorrect operation has been attempted and the display shows Err.

The options can be selected only after selecting a drying programme at the beginning of the cycle, or during a cycle after pressing the START/PAUSE button.

To cancel a drying cycle, it is necessary to turn the programme selector to OFF.

4.2 Operation in PAUSE mode

If START/PAUSE is pressed while a drying cycle is being performed, the dryer interrupts the current cycle, the green LED of the START / PAUSE button flashes and the display shows time to end.

If the selector is turned, the buzzer warns the user of the error.

In this situation, only certain options can be modified, see tab. of Options.

If the button relative to an option that cannot be selected is pressed, the buzzer sounds to warn the user of the error and the display shows Err. When START/PAUSE is pressed again, the drying cycle resumes from the point at which it was interrupted.

4.3 Operation in DELAYED START mode

After selecting a drying cycle, press this button to enter the delayed start option. Every time the button is pressed the delay time increases.

To cancel this option move the selector of one position or press the button till the time is cancelled. The start of the cycle is always determined by pressing the START/PAUSE button.

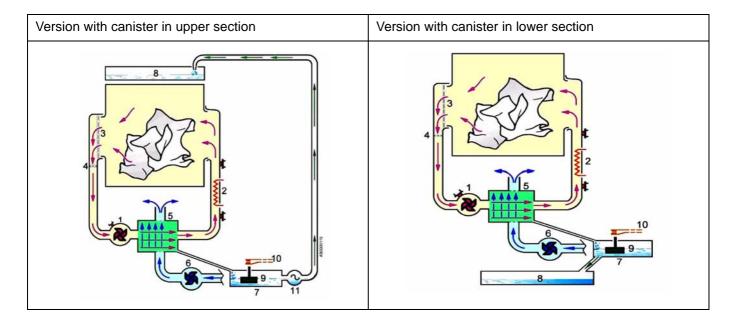
4.4 Power failure

The table below shows how the dryer behaves in the event of a power failure during a drying cycle.

Before the power failure	After power is restored
Set-up	Set-up
Drying cycle	Pause
Cycle paused	Pause
Anti-crease phase	End of cycle
Delayed-start cycle	Delayed start cycle paused
Delayed start cycle paused	Delayed start cycle paused
End of cycle	End of cycle
"Canister full" alarm	"Canister full" alarm

5 CONSTRUCTIONAL FEATURES

5.1 Drying circuit



There are two air circuits inside the dryer:

- the first is a warm-air circuit, which is sealed within the appliance
- the second is an open cold-air circuit, which circulates air from the ambient through certain sections of the appliance

In the sealed warm-air circuit, the air circulates inside the appliance:

The fan (1), ducts the air through a heat exchanger (5), and then to the heater unit (2). The heater unit heats the air, which is then ducted into the drum through the perforations in the rear flange of the drum. The warm, dry air passes through the wash load, which is agitated by the rotation of the drum, and removes the humidity from the fabrics; the air, which is now warm and humid, passes then through the front aperture of the drum via the fluff filter (3) and the lower filter (4), then the air is ducted by the fan (1) to the heat exchanger (5), where the humidity is condensed. The air coming from the heat exchanger is now dry and the cycle continues as described above.

The cold-air circuit (the air circulates in one side of the appliance) is not sealed:

the fan (6) draws in air through an air intake on the rear of the appliance, and ducts the air to the heat exchanger (5), cooling it, after which the air is expelled on the opposite side of the heat exchanger dissipating inside the appliance and exiting from the venting grille in the plinth.

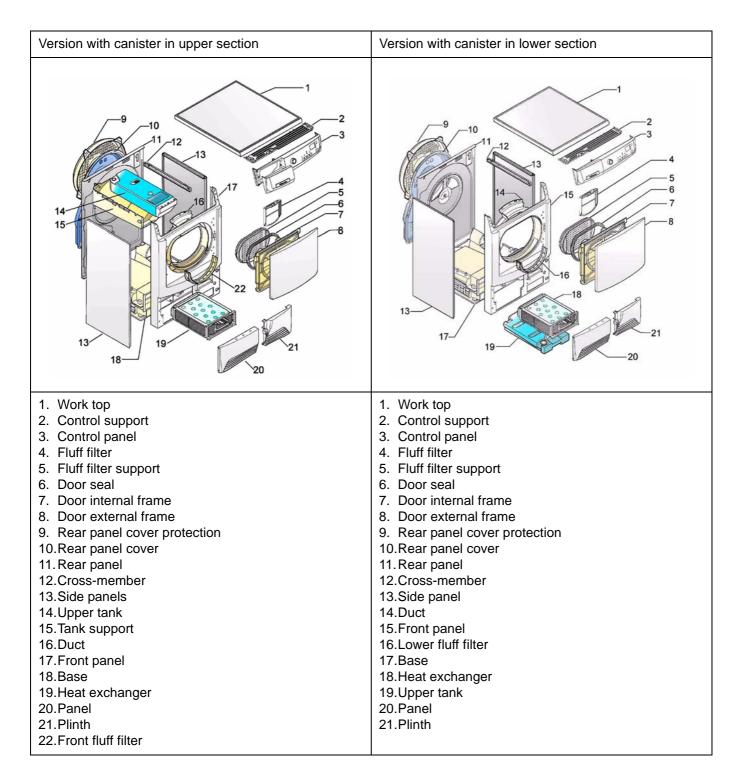
The warm and cold air circuits cross inside the heat exchanger (5), which results in a thermal exchange which condenses the humidity contained in the warm air.

The condensation water, which forms in the heat exchanger, is collected in a sump (7) which contains a float (9):

- In versions with the canister in the upper section, a pump (11) ducts the water from the sump (7) to the canister (8). When the canister is full, any overflow is collected in the canister support and returned through a tube (not shown in the figure) into the sump (7). This causes the float (9) to rise, thus actioning the microswitch (10).
- In versions with the canister in the lower section, the water flows by gravity from the sump (7) into the canister (8); when the canister is full, the water level in the sump (7) rises. This causes the float (9) to rise, thus actioning the microswitch (10).

The electronic control system detects the closure of the microswitch, cuts off the power to the appliance and switches on a LED warning the user that the canister is full.

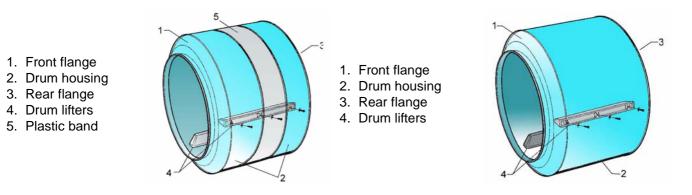
The tank capacity is about 4 lt., which is sufficient for one drying cycle.



The front panel and the side panels are in enamelled sheet metal; the rear panel is in zinc-plated sheet metal. The panels are secured to the base by self-tapping screws.

The shaped carboran base houses the main components.

5.3 Drum



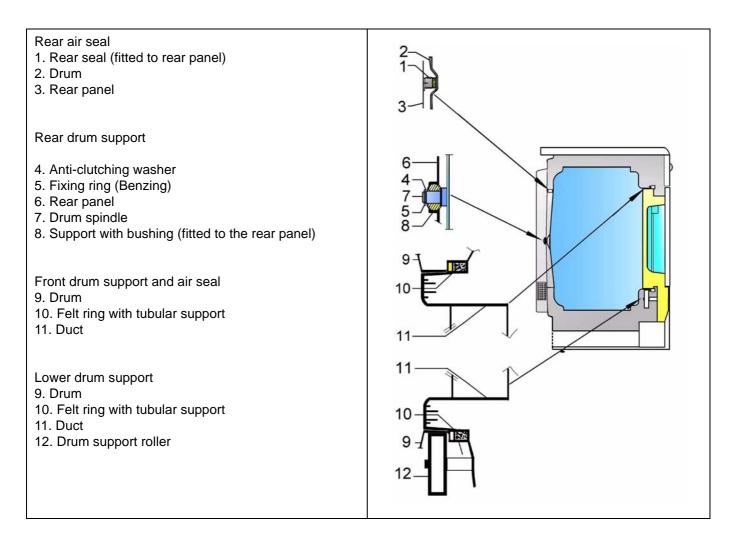
In the conductimetric models the drum consists of two half-shells (front and rear) which are joined together by a wide plastic band (5). Separation of the drum into two parts allows the conductimetric sensor to determine the conductivity of the washing inside the drum. In the temperometric models, the drum consists of a single part. Parts 1, 2 and 3 are connected by crimping.

The plastic lifters are secured by screws to the internal wall of the drum.

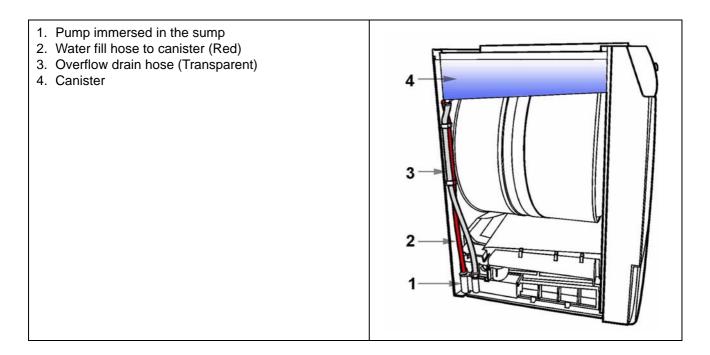
The various elements which make up the drum are in sheet steel.

The rear drum shaft is fitted to the rear flange using eyelet rivets.

5.4 Air seals and drum shaft supports



5.5 Hydraulic circuit (versions with canister in upper section)



The condensation water is ducted from the sump (1) to the tank (4) by the pump immersed in the sump via the hose (2). When the canister is full the overflow is collected in the canister support and ducted to the sump through the hose.

5.6 Drum rotation

1. Motor 2. Belt tensioner spring 3. Belt tensioner 4. Belt

The drum is rotated by a belt (4), which is driven by the pulley of the drum motor (1) fitted to the base; on the bearing shield there is a belt tensioner (3), which has the function of increasing the winding angle of the belt to the drum and works in conjunction with the belt tensioner spring (2).

Bidirectional operation of the drum rotation is determined by the electronic board which inverts the motor power direction for brief periods. Reversal of the direction of rotation allows the clothes to unroll. During these short periods, the heater unit is switched off.

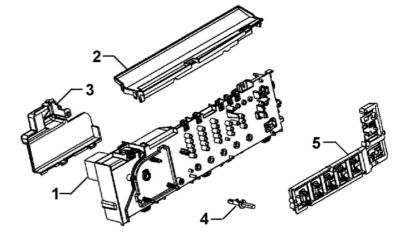
The heat exchanger features a safety device which ensures that, if the panel is opened to check the heat exchanger, a microswitch disconnects the dryer from the power supply.

6 Electrical components

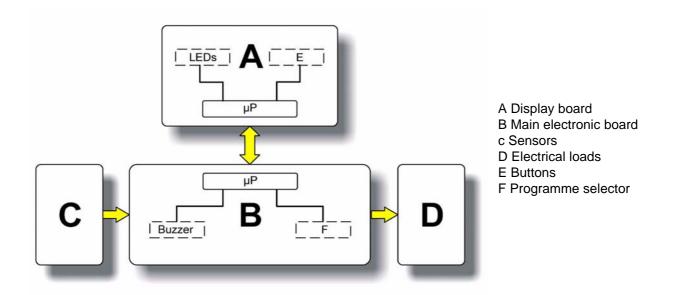
6.1 Electronic control

The electronic control consists of a main electronic board fitted into a plastic container, fixed behind the control support. On models with LCD also the display board is mounted on this container.

- 1. Main PCB assembly
- 2. Cover for connectors
- 3. Cover for selector
- 4. Programme selector shaft
- 5. Button springing



6.1.1 Functions of the main PCB

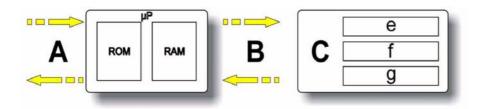


- The electronic board receives the controls relative to the drying cycle setting through the control/display board.
- The electronic board powers the main components: motor, pump (for dryers with canister in the upper section), heater and door interlock.

- The board also controls the door interlock, the temperature of the air inside the dryer (using an NTC sensor), the level of humidity of the washing (using a conductimetric sensor) and the level of condensation water in the canister.
- The buzzer is incorporated in the main board.

6.1.2 Memory of the electronic control: general structure

The system features an EEPROM, positioned externally to the microprocessor, which memorizes the configuration data, the description of the cycle, the status of the appliance in case of a power failure, and the alarms.



A External asynchronous serial port

B Internal synchronous serial port C EPROM external to the mP e Power fail and machine status f Configuration of the board g Description of the cycle

ROM

This area of the memory contains the "firmware" code including the functionalities of the appliance

- Control of electrical loads (motor, pump, heater).
- Control of the sensors (NTC, conductimetric sensor, door switch status).
- Control of the user interface.
- Control of the serial port.
- Control of power failures and alarms.
- Alarms.

In standard-production appliances, this area is a Read-Only Memory, and thus cannot be modified.

RAM

This memory contains the variables, i.e. all the dynamic information used during execution of the programme:

- Machine status.
- Cycle selected.
- Alarms.

The contents of this memory are cancelled each time the appliance is disconnected (by switching off or in the event of a power failure).

The contents can be read using a computer connected via a DAAS interface.

EPROM

The EEPROM contains data of various types:

- Power failure and machine status, i.e. the information necessary to resume operation of the appliance after a power failure.
- Configuration of the drying cycle: this file describes the various steps in the drying cycle for each family of appliances (vented, condenser etc.)
- Machine configuration: the data contained in this area of memory define the configuration of the individual appliance, and are interpreted by the functional software. These files define the following:
- Programmes.
- Number of buttons and their functions.
- Operation of the LEDs.
- Operation of the buzzer.
- Operational limits (voltage/frequency)
- Identification of the appliance (PNC + ELC + serial number)

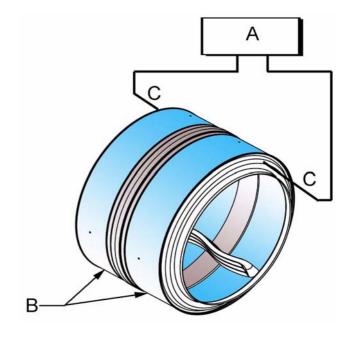
- Heater unit power.
- Preferential direction of motor rotation.

6.2 Conductimetric sensor

The conductimetric sensor consists of an electronic circuit (positioned inside the power board) and a section located externally to the board which consists of the wiring, two brushes (sensors positioned in contact with the tub shells) and the two tub shells themselves. The first brush positioned in contact with the front tub shell is fitted to a hinged support on the duct, and is connected by the wiring to the electronic circuit. The second brush is positioned in contact with the drum spindle housed in the spindle casing. This sensor is connected to the electronic circuit via the cabinet, which represents the mass of the appliance's electronic circuit.

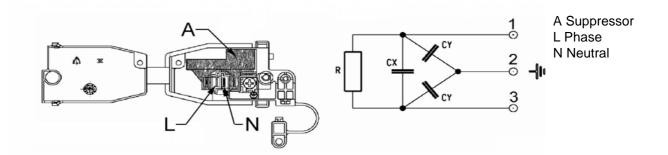
The two halves of the drum are separated by an insulating strip, and therefore the impedance between the front and rear shells (to which the sensors are connected) is infinite when the drum is empty; the impedance varies according to the wash load, the type of fabric and the degree of humidity.

The impedance is between about 1MW and 25MW. This value is converted into an oscillation of between about 260Hz and 0Hz; when processed by the electronic circuit (fuzzy logic), this value determines the duration of the cycle and the final humidity.



- A Electronic circuit B Half-shells
- C Sensors

6.3 Terminal block with incorporated suppressor



The suppressor, which is incorporated in the terminal block, prevents radio disturbance generated by the dryer from entering the power lines.

This device functions correctly only if the appliance is grounded.

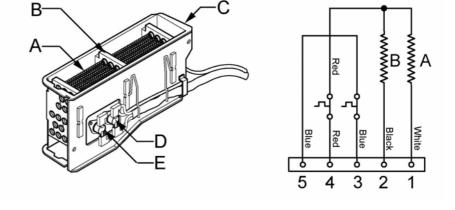
Checking for efficiency:

Use a tester to measure the resistance across the following terminals:

- 1 2 = ∞
- 2 3 = ∞
- 1 2 = ~2M€Ω

6.4 Heater unit

- A Filament heating element B Ceramic supports
- B Ceramic supports
- C Sheet metal casing
- D TH2 Safety thermostat E TH1 Safety thermostat



The heater unit consists of two wire heating elements with different powers. The two heating elements are fitted to ceramic supports, and the entire assembly is housed in a sheet metal casing.

Two safety thermostats (normally closed) are positioned to one side of the casing:

- TH1 automatic reset (4) intervenes at a temperature of 92±3°C, and disconnects both heating elements
- Thermostat TH2 (5) intervenes at 160°C; when the contact opens, it remains open, permanently disconnecting all the electrical components in the appliance.

The heater unit is powered via two relays fitted to the board.

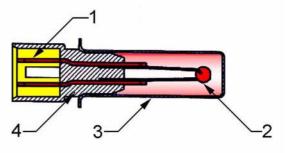
HEATER UNIT VERSIONS					
Type Total power (-2 + 8%) W 2400 2400 2400 230 Rated voltage V 240 230 230 230 230 230 230 230 230 230 230 230 240 230				2000 240	2200 240
Branch A	Power(-2 + 8%) W Resistance Ω	1400 36	1400 33	1400 36	1400 36
Branch B	Power(-2 + 8%) W Resistance Ω	1000 51	600 78	600 85	800 72

Warning: In the event of a thermostat failure, the entire heater unit must be replaced!

6.5 NTC Sensor

The NTC sensor is fitted to the hot air fan duct. This sensor consists of a resistor contained in a metallic capsule. Its resistance decreases as the temperature increases. The electronic circuit reads the resistance (which varies with the temperature inside the dryer); when this resistance falls below a certain value, the heater unit is switched off. As the air cools, the resistance increases; when it reaches a given value, the electronic circuit re-connects the heater unit to the power supply. This occurs each time the temperature inside the dryer exceeds a given value, which varies according to the drying cycle that has been selected.

- 1. Terminals
- 2. NTC Resistor
- 3. Metallic capsule
- 4. Plastic casing

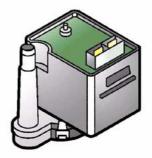


TEMPERATURE	RESISTANCE (Ω)		
(°C)	Rated value	Maximum value	Minimum value
20 60 80	6050 1250 640	6335 1278 620	5765 1222 660

6.6 Canister filling pump (models with canister in upper section)

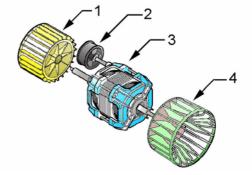
The pump is actioned by a synchronous motor with a power of about 17W. The function of the motor is to pump the condensation water from the sump to the canister.

The pump, too, is powered by a triac. The resistance of the stator winding is approximately 750 W.

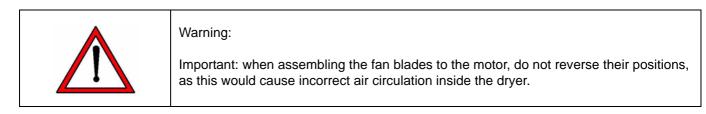


6.7 Motor

- 1. Fan (inclined blades for cold air circulation)
- 2. Belt tensioner
- 3. Motor
- 4. Fan (straight blades for warm air circulation)



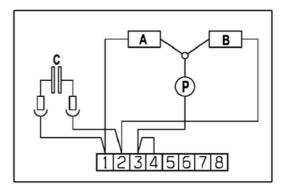
The motor group consists of a belt tensioner (2), two fan blades (1 and 4) for circulating cold and warm air respectively, fitted to the motor shaft using bolts, and a single-phase asynchronous motor (3) featuring a temperometric protector.



The efficiency of the motor can be checked by measuring the resistance across the windings:

Winding A ohm 29 ~ (contacts 1-3)

Winding B ohm 29 ~ (contacts 2-3)

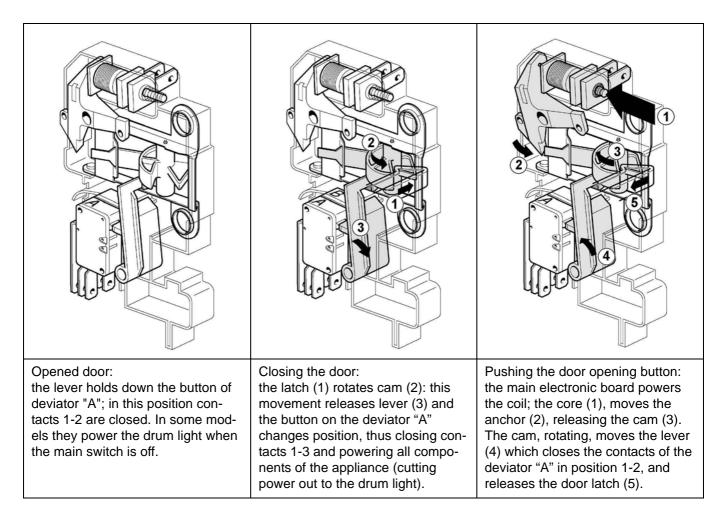


The motor is powered by the electronic board via a relay (which determines the direction of rotation) and a triac.

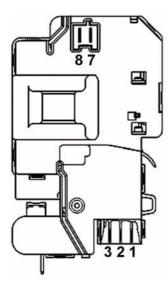
6.8 Door interlock

The door interlock is an electromechanical device which powers the electrical loads only when the door is correctly closed and the programme selector knob is turned (ON/OFF - closed).

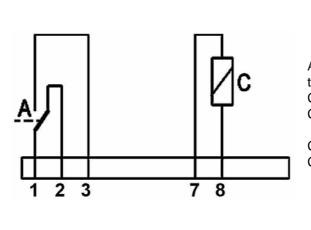
The interlock features a child safety device so that, in case of necessity, the door can be opened by pressing from inside the appliance



Position of connectors



Wiring diagram

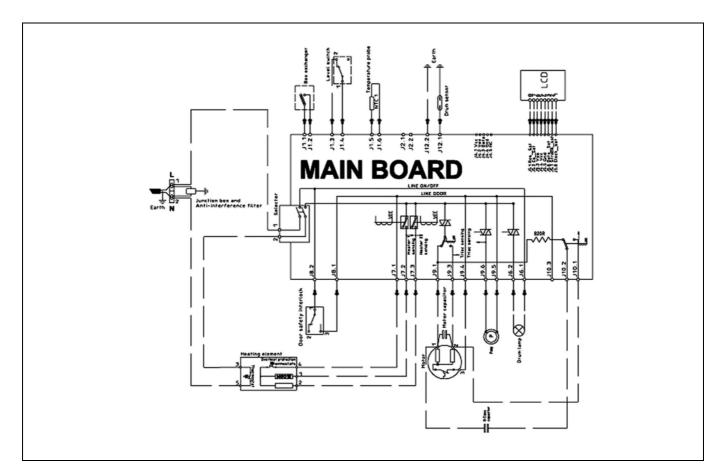


A = Commutator in open position Contacts 1 - 2 : 0 W Contacts 1 - 3 : ∞ W

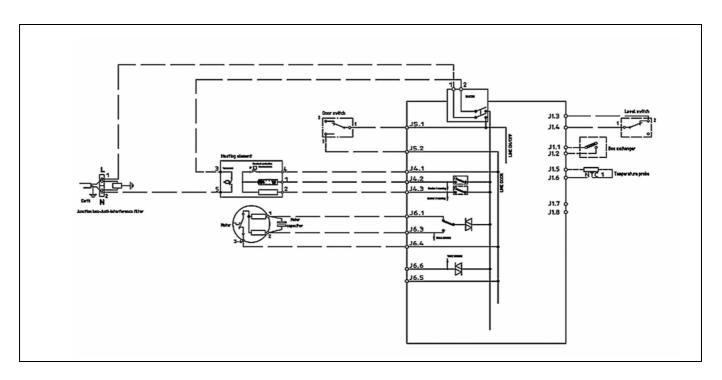
C = Door opening coil Contacts 7 - 8 : ~ 90 W

7 ELECTRICAL CIRCUIT

Conductimetric



Temperometric



8 DIAGNOSTICS SYSTEM

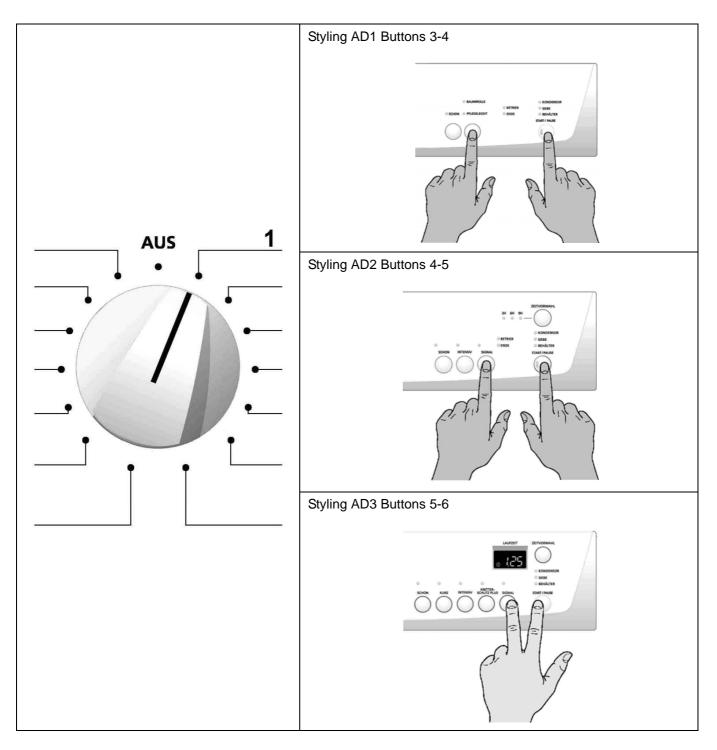
In diagnostics mode, it is possible to check the operation of the appliance and to read the alarm codes

8.1 Access to diagnostics

- 1. The appliance must be switched OFF.
- 2. Switch the appliance ON by turning the programme selector knob one position clockwise.
- 3. Wait until the LEDs light and the buzzer sounds, then simultaneously press the related buttons depending on the models.

IMPORTANT: THIS OPERATION MUST BE PERFORMED WITHIN 5 SECONDS

4. Hold these buttons down until the LEDs begin to flash and the buzzer sounds.



IMPORTANT

- The alarms remain active during component diagnostics testing. If an alarm should be displayed, turn the programme selector to the first position to exit the alarm situation, and then continue the testing cycle (if the alarm is not repeated).
- In order to check for correct operation of the floating switch and the pump, the sump is filled with approximately 0.7 litres of water.
- For correct control of the conductimetric sensor in a condition of short-circuit (position 7), remove the cover and create a short-circuit between the two half-shells of the drum or between the front shell and ground. After entering this phase, the time available for creation of the short circuit is just one second; therefore, prepare the short circuit before turning the programme selector knob to position eight (it is advisable to do this in a position in which the drum is stationary, then pass quickly to this position). If the short circuit is not performed correctly, the electronic board will display alarm E32 (sensor frequency too low). To exit the alarm condition, turn the programme selector knob to the first position.
- Open the condenser access panel and check that the switch operates correctly: the buzzer will emit four "beeps" (in different tonalities), repeated every 7 seconds.

8.2 Exiting the diagnostics system

To exit the diagnostics system, turn the programme selector knob to zero to switch the appliance OFF, then switch it ON and OFF again.

8.3 Selector positions for diagnostics on conductimetric appliances



When the various functions of the diagnostics mode are entered, the display shows on the right lower side some writings (ex. C7 - C5 etc.). They refer only to the selector codification and they have no relevance for the test being executed.

Selector position		Components activated	Operating conditions	Function checked
1		All LEDs and digits light up in sequence. When a button is pressed, the corresponding LED lights and the buzzer sounds.	Always active.	Operation of the user interface.
2	AUS 2 - - - - - - - - - - - - -	Condensation canister level sen- sor. Canister fill pump.	Door closed. Sump full about 0,7 litres.	Operation of the floating switch and canister fill pump.
3	AUS	Motor triac and relay. Canister fill pump always pow- ered.	Door closed. Maximum time 10 minutes Pump 30 seconds.	Controls counter- clockwise drum rota- tion.
4		Triac motor in stepping operation.	Door closed. Max. time 10 min.	Control of clockwise drum rotation (low speed for visual inspection of drum shell assembly).
5	AU5	Higher-power heating element. Motor triac for ventilation.	Door closed. Maximum time 10 minutes.	Control of correct direction of drum motor and fan motor.

6	AUS 	Full-power heater. Clockwise drum rotation motor. Full-power fan motor.	Door closed. Maximum time 10 minutes.	Heater unit (full power).
7	AUS T	Conductimetric sensor with short- circuited. This check has a dura- tion of 4 sec, 1 sec. to create the short circuit. The phase/warning LEDs flash during this period: if the result is correct at the end, the LEDs remain lit; if not, the LEDs flash and alarm E32 is dis- played.	Door closed. Short circuit between the two drum shells.	Control of the con- ductimetric sensor when short-circuited.
8	AUS 	Conductimetric sensor. This check has a duration of 4 sec. The phase/warning LEDs flash during this period: if the result is correct at the end, the LEDs switch off; if not, the LEDs flash continuously.	Door closed.	Control of the con- ductimetric sensor when the circuit is open.
9	AU5	Floating switch. Canister fill pump: with switch closed.	Door closed. Maximum time 30 sec.	Operation of the floating switch (sump empty).
10	AU5	Reading/cancellation of the last alarm code. Turn the knob till position 10, pay- ing attention not to stop to posi- tion 7, otherwise error 32 may occur.		

8.4 Selector positions for diagnostics on temperometric appliances

Selector position		Components activated	Operating conditions	Function checked
1		All LEDs and digits light up in sequence. When a button is pressed, the corresponding LED lights and the buzzer sounds.	Always active.	Operation of the user interface.
2		Condensation canister level sen- sor. Canister fill pump.	Door closed. Sump full (about 0,7 litres.	Operation of the floating switch and canister fill pump.
3	AUS	Motor triac and relay. Canister fill pump always pow- ered.	Door closed. Maximum time 10 minutes. Pump 30 seconds.	Drum anti-clockwise rotation control.
4		Triac motor in stepping operation.	Door closed maximum 10 minutes.	Control of clockwise drum rotation (low speed for visual inspection of drum shell assembly).
5		Higher-power heating element. Motor triac for ventilation.	Door closed. Maximum time 10 minutes.	Control of correct drum rotation and fan motors.
6		Full-power heater Clockwise drum rotation motor Full-power fan motor	Door closed. Maximum time 10 minutes.	Heater unit (full power).

7	Floating switch. Canister fill pump: with switch closed.	Door closed. Maximum time 30 seconds	Operation of floating switch (sump empty).
8	Reading/cancellation of the last alarm code Turn the knob till position 10, pay- ing attention not to stop in posi- tion 7, otherwise error 32 could occur.		

9 ALARMS

9.1 Displaying the alarms to the user

Operation of the alarms is configurable according to the model. Some or all of the alarms may be displayed to the user.

Normally, all alarms except E61, E97, EB2 are displayed to the user.

When an alarm condition occurs, the drying cycle may be interrupted or paused; in some cases, for the sake of safety, a forced cooling cycle is performed. In this case, the electronic board, if possible, disconnects the power relay from the heater unit and powers the motor of the drum cooling fan. The cycle remains active until the user switches off the appliance.

9.1.1 Alarm display during normal operation

On models with styling CD3 the system displays the family of the current alarm to the user.

If for example we consider E53 alarm (problems with the motor TRIAC) the display will show as follows

- First digit: letter "E" (error)
- Second-third digit: the no. "5 0", i.e. the family of alarm E53

The same number is displayed by a repeated flashing sequence of START LED of RED colour with a cycle (0,4 seconds on, 0,4 seconds off with a 2,5 second pause between the sequences)

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in case of E53, the series of five flashes indicates the first of the two E53 alarm digits (the alarms relative to the same function are grouped in families).

9.2 Reading the alarm codes

To read the last alarm code memorized in the EEPROM of the electronic board:

- Access diagnostics mode (see paragraph)
- Turn the programme selector knob clockwise to the tenth position on conductimetric models and to the eighth position on temperometric models, paying attention not to stop in other positions, because error 32 could occur)

9.2.1 Displaying the alarm code on models CD3

- First digit: Letter E
- · Second digit: The family of the alarm
- Third digit: The alarm number

9.2.2 Displaying the alarm code on all models

The alarm code is displayed by a repeated sequence of flashing of the LED START (0.4 seconds on, 0.4 seconds off, with a pause of 2.5 seconds between sequences). The buzzer emits a series of "beeps" in synchronization with the flashing of the LEDs

START LED with RED light: indicates the first digit of the alarm code (family)

START LED with GREEN light: indicates the second digit of the alarm code (number inside the family).

Displaying other alarm codes

Pressing START button, all alarms in the appliance will be displayed.

The configuration errors E93 are displayed through the flashing of all LEDs and it is not possible to access the diagnostics system.

9.3 Cancelling the last alarm memorized

It is good practise to cancel the alarm code from memory:

- After reading the alarm, to check whether it is repeated during the diagnostics cycle.
- After effecting repairs to the appliance, to check whether it is repeated during testing.
- 1. Activate the diagnostic mode.
- 2. Turn the programme selector knob to the tenth position on condensation models and to the eighth position on vented models.
- 3. Push the start/pause button and its nearest left button simultaneously.
- 4. Hold the buttons down for about 5 seconds.
- 5. Once the alarm has been cancelled, E00 is displayed.

9.4 Notes concerning certain alarm codes

- Configuration alarm E93: When configuration alarms are displayed (when the appliance is switched on), the appliance is inoperative and all the LEDs light: it is not possible to access diagnostics mode and the only possible operation is that of switching off the appliance (selector knob on position "0").
- Alarms EH1-EH2-EH3: In the event of problems with the power supply, the appliance remains in alarm mode until the voltage and frequency are restored to within the normal limits or the appliance is switched off (selector knob on position "0"). Alarm family "B" is displayed and it is not possible to access diagnostics mode nor to use the "rapid alarm display" function. The complete alarm can be read only when the abnormal condition has terminated.

9.5 Table of alarms

Alarm	Description	Possible fault	Action/machine status	Reset command
E00	No alarm.			
E21	Canister fill pump triac faulty.	Wiring faulty. Electronic board faulty.	Cycle interrupted.	OFF
E22	Triac "sensing" circuit for the can- ister fill pump faulty	Electronic board faulty.	Cycle interrupted.	OFF
E31	Conductimetric sensor signal fre- quency too high.	Electronic board faulty.	Alarm activated only during diagnostics.	
E32	Conductimetric sensor signal fre- quency too low.	Wiring faulty. Brushes worn/faulty. Electronic board faulty.	Cycle interrupted.	OFF
E33	It is displayed in the last alarm, if position 8 is NOT OK.	Wiring faulty. Brushes worn/fault. Electronic board faulty.	Alarm activated only during diagnostics.	
E45	Door closure sen- sor.	Door interlock faulty. Wiring faulty. Electronic board faulty.	Cycle interrupted.	OFF
E51	Motor power triac short-circuited.	Motor faulty. Wiring faulty. Electronic board faulty.	Cycle interrupted.	OFF
E52	Intervention of motor overheating safety cut-out.	Motor faulty. Intervention of motor overheating cut- out. Wiring faulty. Electronic board faulty.	Power to the heater unit and reversal of the direction of rotation are interrupted. If the problem does not re- occur, the alarm is memo- rized and the cycle contin- ues; if the fault persists after several attempts to supply power (about 35 min.), alarm E51 is gene-rated.	OFF
E53	Motor triac "sens- ing" circuit faulty.	Electronic board faulty.	Cycle interrupted.	OFF
E54	Motor inopera- tional.	Excessive wash load. Voltage too low. Motor/transmission system inopera- tive.	Cycle paused after several attempts at powering the motor.	Start
E61	Insufficient heat- ing (maximum time exceeded)	Heater unit faulty. Wiring faulty. NTC sensor faultyd/out of position. Electronic board faulty.	Cycle paused.	Start
E62	Power relay to heater unit faulty	Heater unit faulty. Wiring faulty. Electronic board faulty.	Forced cooling. cycle	OFF

E63	Intervention of auto-reset ther- mostat on the heater unit.	Thermostat faulty. Heater unit faulty. Wiring faulty. Electronic board faulty.	Disconnects the power sup- ply to the heater unit. If the problem does not re- occur, the alarm is memo- rized and the cycle contin- ues. If, after several attempts to restore power, the fault persists, alarm E62 is generated.	OFF
E64	Heater thermo- stat.	Thermostat faulty. Wiring faulty. Electronic board faulty.		
E65	Fan motor triac faulty.	Fan motor wiring not connected. Motor faulty. Triac interrupted.		
E66	Fan motor ther- mal protection.	Fan motor wiring not connected. Motor faulty. Triac interrupted.		
E67	Triac control faulty.	Fan motor wiring not connected. Electronic board faulty.		
E71	NTC1 sensor faulty.	NTC1 sensor faulty. Wiring faulty. Electronic board faulty.	Forced cooling cycle.	OFF
E72	NTC2 sensor faulty.	NTC2 sensor faulty. Wiring faulty. Electronic board faulty.		OFF
E82	Selector in OFF position faulty.	Board wiring. Electronic board faulty.		
E83	Selector posi- tions wrong	Board wiring Electronic board faulty		
E93	Error in the con- figuration of the appliance.	EEPROM configuration incorrect. Electronic board faulty.	Cycle interrupted.	OFF
E94	Error in the con- figuration of the drying cycle.	EEPROM configuration incorrect. Electronic board faulty.	Cycle interrupted.	OFF
E97	Incongruence between selector and cycles.	Configuration error.	Cycle interrupted.	OFF
EA3	Board selector faulty.	Electronic board faulty.	Cycle interrupted.	OFF
EA4	Selector protocol wrong.	Electronic board faulty.	Cycle interrupted.	OFF
EH1	Power frequency to appliance out of limits.	Problems with the power supply. Electronic board faulty.	Cycle interrupted. If a stable power supply is restored before the time-out has elapsed, the cycle resumes.	OFF
EH2	Power voltage too high.	Problems with the power supply. Electronic board faulty.	Cycle interrupted.	OFF
EH3	Power voltage too low.	Problems with the power supply. Electronic board faulty.	Cycle interrupted. If a stable power supply is restored before the time-out has elapsed, the cycle resumes.	OFF

10 NO ACCESS TO DIAGNOSTICS PROGRAMME

10.1 No LEDs on the display board light.

Power cable and connection OK ?	NO	Replace or repair the power cable and perform the diagnostics programme	
YES			
Does the suppressor (incorporated in the main terminal block) function correctly?	NO	Replace the terminal block + suppres- sor and perform the diagnostics pro- gramme	
YES			
Remove the connector from the main terminal block and connector J8 of the electronic board. Measure the continu- ity of the wiring across terminals and L. Is the circuit closed?	NO	Replace or repair the wiring and per- form the diagnostics programme	
YES			
Measure the continuity of the wiring across terminals and N. Is NO the circuit closed?	Remove the connector from the heater unit and measure the closure of the thermostat. Is the circuit across terminals 3 - 5 of the heater unit closed?	Identify the cause of the inter- ruption in the operation of the fan causing the thermostat to intervene, and eliminate the cause. Replace the heater unit and perform the diagnostics cycle	
	YES		
YES	Replace/repair the wiring and perform the diagnostics cycle		
Does the programme selector function correctly mechanically ?	NO	Replace/repair knob or spindle	

YES

Does the wiring that connect the electronic board with the control/display board function correctly? (insert and remove the connector)

YES

Appliance functions correctly

Replace main board and perform the diagnostics cycle. Does the appliance function correctly?

10.2 Some of the LEDs on the display board light

Do the power cable and the connection action correctly ?

YES

Does the suppressor (incorporated in the main terminal block) function cor- NO rectly?

YES

Appliance functions correctly

WARNING

It is not possible to access the diagnostics system if the main electronic board has not been configured correctly: configuration errors (E93) are indicated by the flashing of all the LEDs

Replace/repair power cable and perform the diagnostics cycle

Replace the terminal block + suppressor and perform the diagnostics programme

11 ACCESSIBILITY TO COMPONENTS

11.1 Door

Door

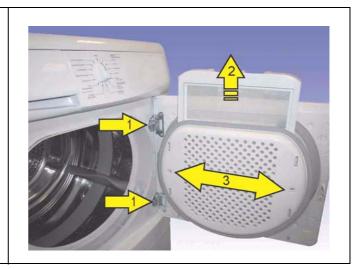
To remove the door, remove the screws (1) which secure it to the hinge.

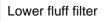
Fluff filter

Lift out (2) and clean it at the end of each cycle.

Fluff filter support

Remove the two screws which secure the fluff filter support to the inner door (3).





Remove by lifting from its seat.

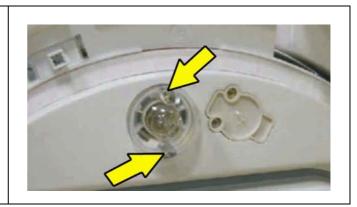


11.2 Drum light

Drum light (some models)

The bulb can be replaced from the inside of the drum.

Remove the two screws which secure the bulb cover. Unscrew the bulb from the bulb-holder. When replacing the cover, ensure that the sealing ring is correctly positioned in its seat.



11.3 Work top

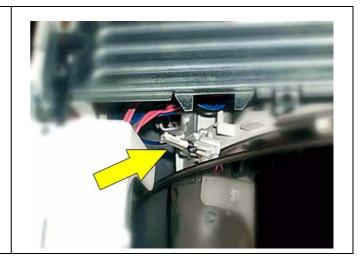
To remove the work top, first remove the screws which secure the top to the rear edge of the appliance and slide the top towards the rear.



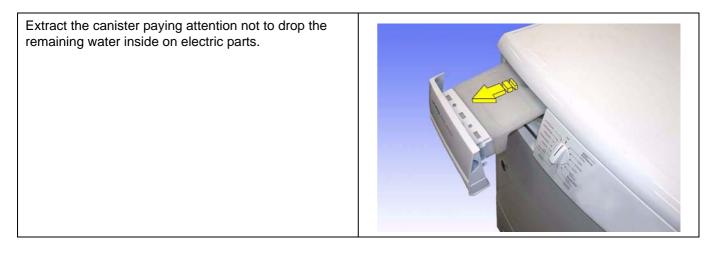
11.4 Front brush of conductimetric sensor

Front brush of conductimetric sensor

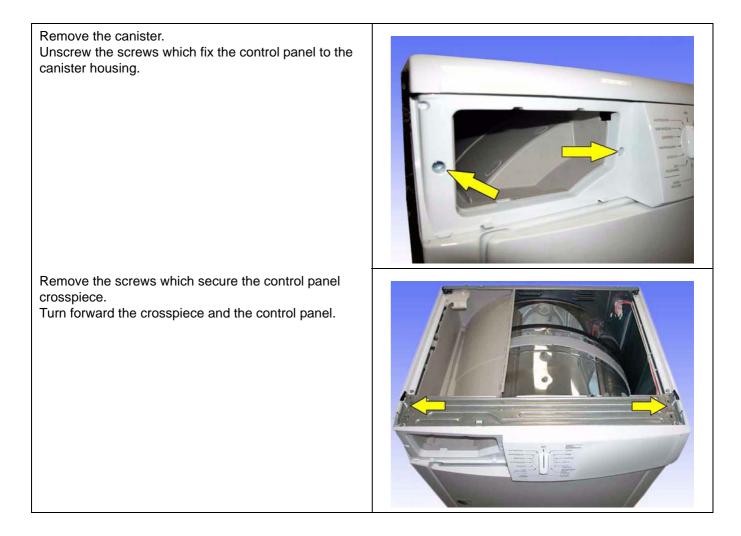
Remove the connector. Extract the brush from the seat fitted to the duct.



11.5 Canister



11.6 Control panel support and Control panel



11.7 Main electronic board

Removing the main electronic board

To remove the main electronic board:

Remove screw A which secures the selector protection B, remove the protection pushing with a screwdriver without forcing the upper clip too much.

Remove the 5 screws C which secure the electronic board to the control panel.

Slightly push the fixing clips and remove the board.

Release upper protection (D).

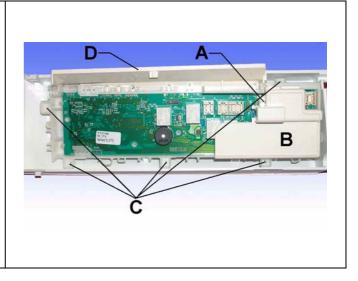
Detach the cables.

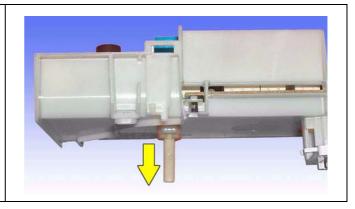
Removing selector pin

After removing the main board it is possible to remove the selector pin to OFF position and move it forward.

WARNING

Should the pin not exit, check that it is in the correct OFF position.

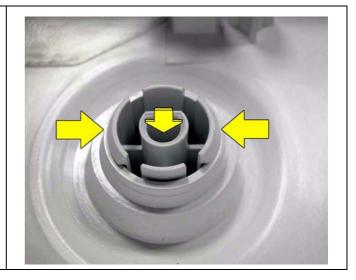




Removing selector knob

After removing the main board, it is possible to remove the selector knob.

Press the two long sides towards the centre and simultaneously push the knob outwards.



Button springing

The button springing remains hooked to the main board support by means of the lateral clips.

11.8 Rear panel cover

Unscrew the screws (1) which secure the rear cover (plastic) in the centre and release the hooks (2) which fix it externally pushing in the centre with a screwdriver.



Unscrew all perimetral screws which secure the rear cover to the rear panel and remove it.



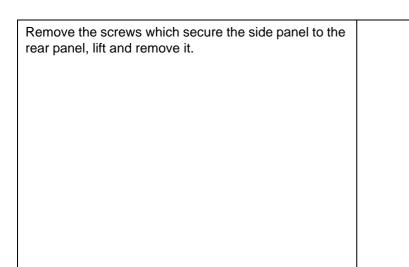
11.9 Heater unit

Remove the left side panel (viewing the appliance from the front).

Unscrew the screw that secures the side panel to the crossbar (remove first the canister).

When replacing the side panel, replace the screws in their original positions, otherwise the continuity of the earth circuit will be broken.



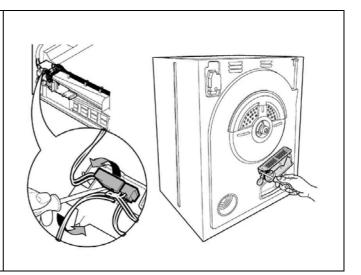


The terminal block for the heater unit is located inside the microswitch support, and secured in position by an anchor tab.

Insert a screwdriver, release the anchor tab and remove the terminal block. Remove the wire ties that secure the wiring to the base and remove the wiring.

Remove the two screws which secure the heater unit to the rear panel, paying attention that the right screw of the heater unit fixes a deflector.

When replacing the heater unit, be sure to re-position the wiring in its original position



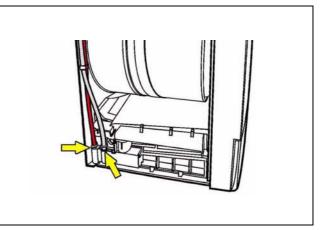
11.10 Floating microswitch

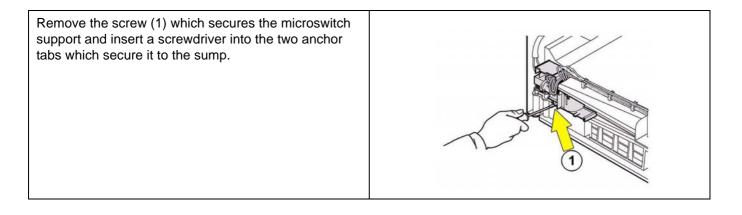
Remove the work top (see paragraph).

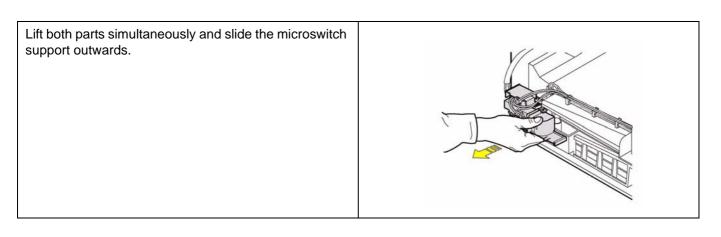
Remove the screws which secure the side panel and remove the panel (as described before).

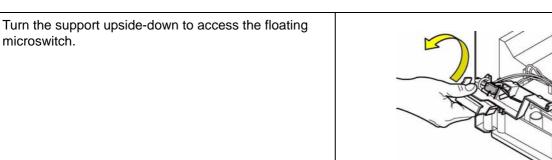
The sump is located in the rear section of the base, and contains the pump, the floating microswitch and the float.

Remove the two tubes from their couplings (the red tube which fills the canister, and the transparent tube through which water overflow is ducted back to the sump when the canister is full).



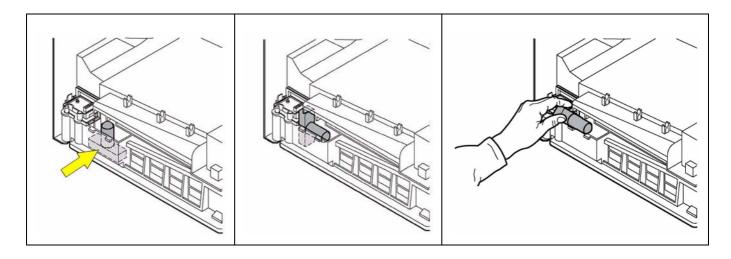






- ADL

11.11 Float



The float is located inside the sump.

To remove the float, turn it 90° clockwise as shown in the figure.

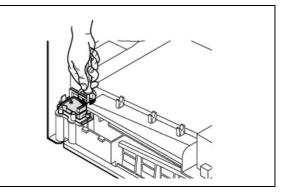
Lift and rotate it outwards, and remove it.

To re-fit the float, repeat this procedure in reverse sequence.

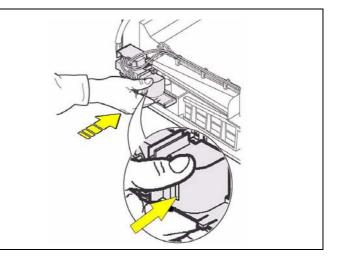
11.12 Pump

The pump, which ducts the water from the sump to the canister is located next to the sump containing the float.

To remove the pump from its seat, it is necessary to disconnect the wiring connectors, remove the screw and release the anchor tab (shown by the arrow) which secures the pump to the sump; remove the pump.



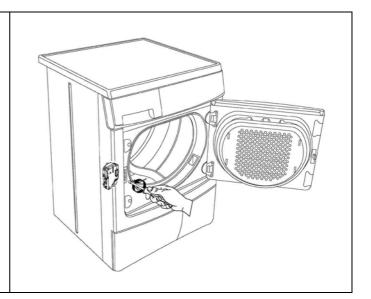
When re-assembling the pump, the float and the canister microswitch, repeat the procedure described above in reverse sequence. When replacing the microswitch support, insert a screwdriver into the gap (shown by the arrow) in order to lift the microswitch lever and place it against the top of the float. If this procedure is not performed, the microswitch lever will remain alongside the float and become bent. In this case, the two components will not function correctly.



11.13 Door interlock

Remove the left side panel.

Unscrew the two screws which secure the panel and extract it.



11.14 Motor capacitor

Remove the work top (as previously described).

Remove of the right-hand side panel, unscrewing the screw that secures it to the crossbar.

When re-assembling the side panel, place the screws in their original position again, otherwise the continuity of the earth circuit will be broken.

Unscrew the screws which secure the side panel to rear panel.

Lift and remove it.

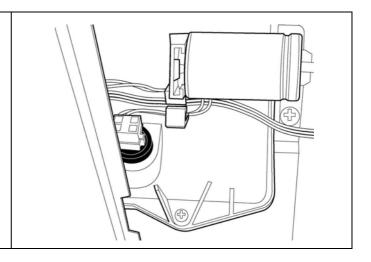




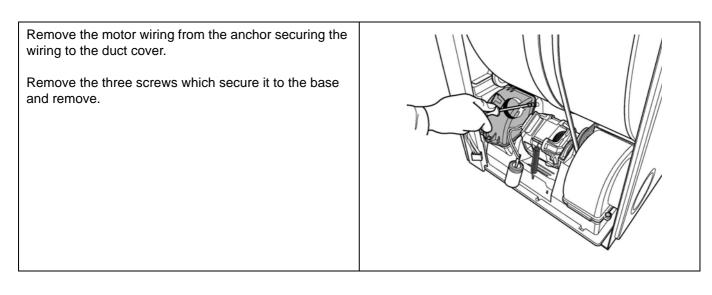
Detach the connectors, release the anchor tab and remove the capacitor.

11.15 NTC Sensor

Remove the sensor from the seal and detach the connector.



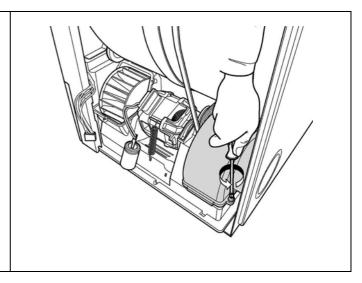
11.16 Rear air duct cover (hot air circulation)



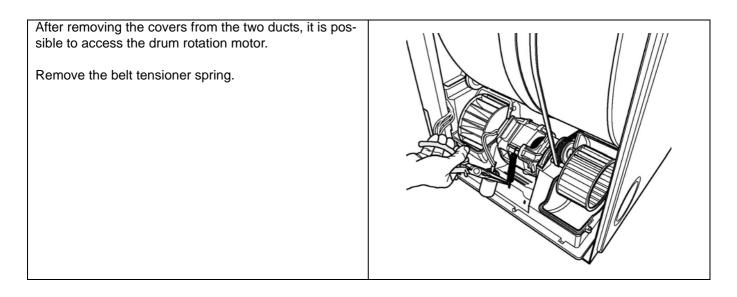
11.17 Rear air duct cover (cold air circulation)

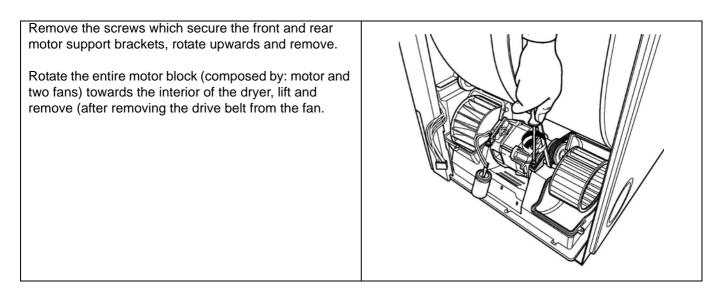
Remove the screw.

Detach the duct cover from the three anchor tabs (two upper lateral tabs, one lower tab) which secure it to the base, and remove.



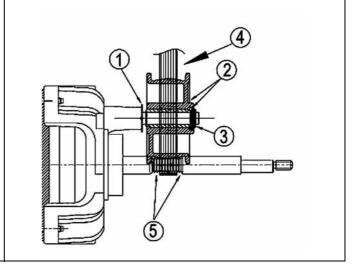
11.18 Drum rotation motor





Replacing the belt tensioner roller / drive belt

- 1. Spacer.
- 2. Belt-tensioner roller with incorporated spacer.
- 3. Elastic ring.
- 4. Belt in central position.
- 5. Leave two grooves free on each side of the pulley.

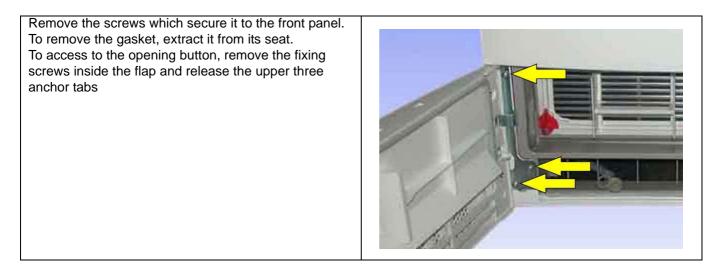


11.19 Capacitor (heat exchanger)



Open the flat door, turn the two red retainers downwards and extract the heat exchanger pulling it outside.

11.20 Front flap

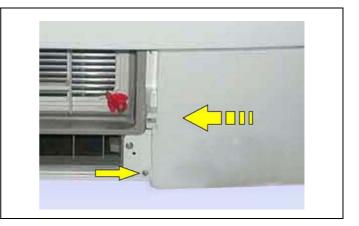


When re-fitting the flap in its housing, first ensure that the three anchor tabs are correctly positioned, and only then tighten the screws.

Check that the flap latch, when closed, actions the lever of the microbox, otherwise the dryer will not be powered.

11.21 Plinth

Remove the screw which secures the plinth to the front panel, move it towards the interior of the appliance and remove.



11.22 Door microswitch

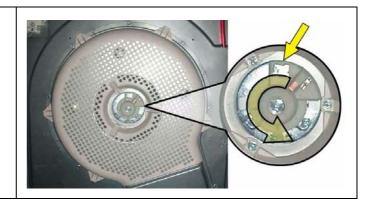
Removed the plinth you can access the microbox. Remove the screw which secures the microbox support to the front panel. Move it towards the centre of the dryer and remove it.

11.23 Rear brush

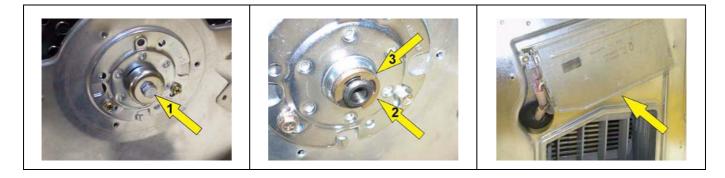
Remove the screw which secures the drum spindle cover.

Rotate the drum cover pin until it is released from the anchor in the lower section.

The brush is located inside the protective cover.



11.24 Rear panel



Remove the work top.

Unscrew the screw which secures the canister support.

Remove the left-hand and right-hand side panels.

Remove the back air cover.

Remove the rear brush.

Unscrew the screw which secures the bush (1).

Remove the Benzing ring (2) and, if featured, the spacing washer (3).

Disconnect the terminal block from the heater unit.

Disconnect connectors on the main terminal block.

Unscrew the screws which secure the rear panel to the crossbars and to the base.

A screw beneath the heater unit secures the rear panel to the base.

11.25 Drive belt and Drum

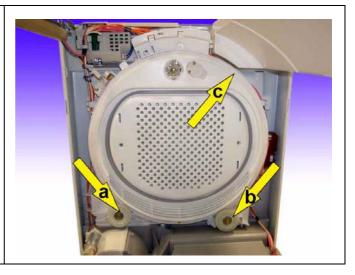
Remove the work top. Remove the side panels. Remove the rear panel. Remove the rear duct cover. Extract the belt. Remove the drum.

11.26 Duct

Remove the work top. Remove the rear panel. Remove the drum. Unscrew the screws which secure it to the hinges and hinge hole masking plates. Extract the duct.

11.27 Duct rollers

Remove the work top. Remove the rear panel. Remove the drum. Remove the screws (a) and (b) which secure the rollers to the duct.

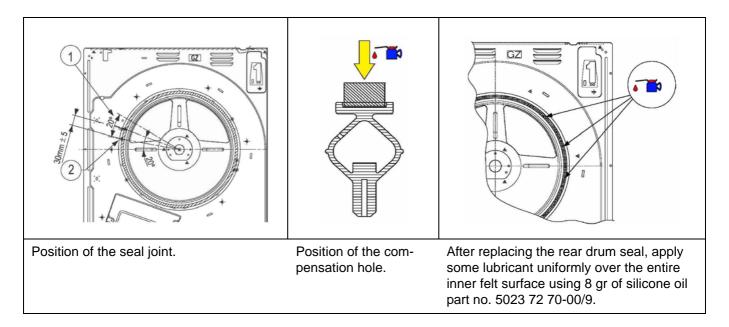


11.28 Front and rear seals

Slide out the front seal (C) from its seat.

The rear seal can be simply pulled away from the ring fitted to the rear panel.

Notes for replacement of the rear drum seal



12 REVERSIBILITY OF THE DOOR

Remove the screws which secure the hinges to the cabinet (1) and remove the door.

Remove the screws which secure the hinge hole masking plates (2) and fit the plates to the holes to which the hinges were previously fitted (1).

Remove the canister.

Remove the work top.

Remove the left- and right-hand panels.

Remove the front panel hole cap (4). To do so, squeeze together the anchor tabs which secure it to the cabinet.

Remove the screws which secure the door interlock (3) to the cabinet and remove the lock.

Detach the connector from the door lock.

Remove the tapes from the wiring and separate the wires for the door lock from the remaining wires.

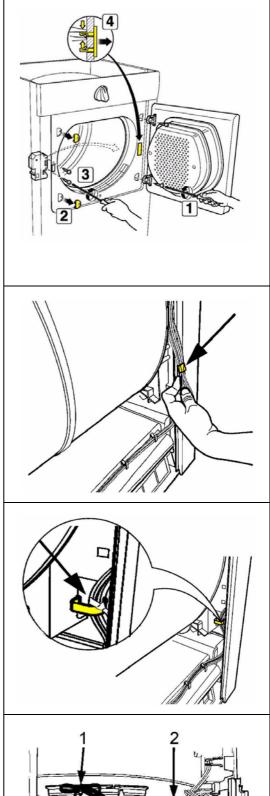
Re-tape the remaining wiring (for the remaining wires).

Insert the general wiring harness into the support positioned on the duct and position them parallel to the front panel so that they cannot come into contact with the drum.

Attach to the anchor using a wire tie.

Insert the door lock connector under the board cover, secure to the anchors on the duct (2) and remove the wiring from the other side of the cabinet.

The excess section of the door lock wiring should be secured using a wire tie to the wiring cover (1).



Insert the connector into the door lock and fix it with the screws to the front panel (5).

Ensure that the wiring is not pressed between the door lock and the front panel.

Check that the wiring is routed through all the anchors released when removing the door lock wiring.

Fit the masking cap into the hole from which the door lock was removed (4).

Remove the hinges by removing the hinge screws (6).

Remove the door hinge masking caps (7).

Remove the masking cap from door latch hole (8).

Remove the door latch (9),

Press the hinge hole masking caps into position (7).

Insert the latch hole masking cap (8).

Fit the door latch (9).

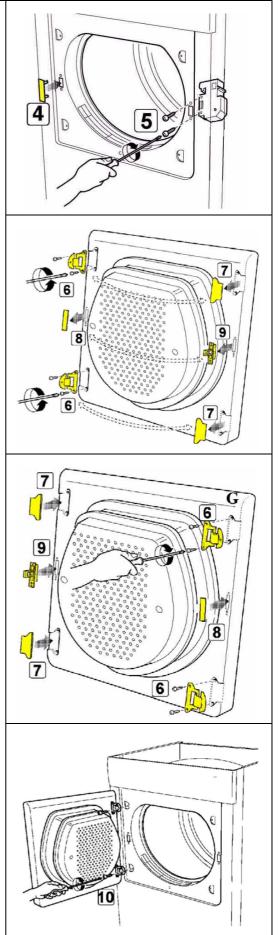
Screw the hinges into position (6).

Position the door on the opposite side of the appliance and screw the hinges into position (10).

Replace the left- and right-hand side panels (replacing the screws in their original positions, otherwise the continuity of the earth circuit will be broken).

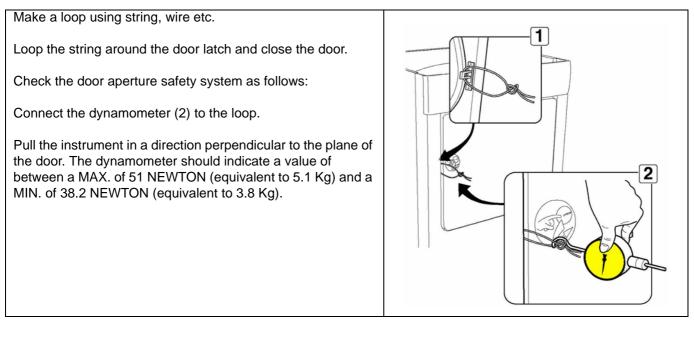
Replace the work top."

Re-position the "Push-Push" adhesive label.



13 FINAL TESTING OF DOOR CLOSURE

In order to check that the door closes correctly (i.e. in compliance with safety standards) after reversing, proceed as follows



N.B.: The door locking system is designed to ensure that, if a child should inadvertently remain inside the appliance, the door can be opened by simple pressure from the inside.

This appliance is in full compliance with current safety legislation.