Service Information

WWDC 9716

8533 048 11000
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This document is only intended for qualified technicans who are aware of the respective safety regulations.
Subject to modifications

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Spare Part List

Pos	12NC	Description
A001	**4820 000 90230**	C00382767 Screw M3.5x30t.e.
A002	**4820 000 90231**	C00378789 Fan
A004	**4820 000 30414**	BLOWER MANIFOLD SEAL VPL
A005	**4820 000 90232**	C00382769 Heating element dryer 1200W
A006	**4820 000 23297**	THERMISTOR NTC EPCOS WD
A007	**4820 000 89593**	O-RING D= 8.75 WD VPL with tails
A008	**4820 000 30423**	HOSE CLAMP
A009	**4820 000 26226**	RESTRICTOR SEAT
A013	**4820 000 88774**	STEAM FILTER NEW WD 71lt
A015	**4820 000 88773**	STEAM CONDENSER VPL WD 71lt
A015	**4820 000 88775**	TUBE CLAMP 22.6- 21
A016	**4820 000 85630**	HOSE ELECTROVALVE CONDENSER AQGMD
A018	**4820 000 88772**	BLOWER MANIFOLD KIT VPL 71lt WD
A019	**4820 000 72543**	SCREW TRILOB M5 X 16 TCB T.E. ST
A021	**4820 000 23170**	DRYER FAN MOTOR 230V 50HZ 42W
A025	**4820 000 88776**	DETERGENT DISPENSER HOSE
A099	**4820 000 90233**	C00013562 Clamp hose 15.1-15.9
A099	**4820 000 90234**	C00382770 Screw M8x30 t30
A099	**4820 000 23290**	SCREW TRILOB M4x8 Tcb6L-T20
A099	**4820 000 23299**	UPPER REFLECTOR (HEATER BOX)
A099	**4820 000 23300**	LOWER REFLECTOR (HEATER BOX)
B001	**4820 000 31716**	FIXING SPRING COUNTERWEIGHT AQ 71LT
B002	**4820 000 90235**	C00382771 Counter weight upper
B003	**4820 000 29587**	ANCHORAGE PAD - SUSPENSION SPRING AQUAL
B004	**4820 000 90236**	SUSPENSION SPRING 71lt Prime K=8,5 N/mm
B005	**4820 000 90237**	TANK PLASTIC 71 LT ULTRA NEW WD STEAM 2T
B006	**4820 000 88303**	BELLOWS CLAMP (TANK FRONT) AQ HD
B007	**4820 000 72469**	DOOR BELLOWS SEAL NP Futura WD
B008	**4820 000 29103**	CLAMPING RING - BELLOWS SEAL FRONT
B009	**4820 000 23250**	REMOVABLE WASHING PADDLES HIGH END
B010	**4820 000 31715**	FRONT COUNTERWEIGHT 13,4 KG
B011	**4820 000 27908**	BALL OKO EVO II
B012	**4820 000 22783**	HOSE CLAMP
B014	**4820 000 90238**	HOSE TUB TO PUMP 71LT FUTURA
B015	**4820 000 90239**	C00382772 Hose dispenser-tub
B016	**4820 000 72512**	NUT ROMOB M6X20X1,5
B017	**4820 000 31484**	PIN DAMPER
B018	**4820 000 89614**	KIT SHOCK ABSORBER 120N Futura 71 Lt
B019	**4820 000 23020**	DRUM PULLEY D=280 MM H=20 MM
B020	**4820 000 90240**	C00051739 Screw M8x20
B021	**4820 000 22887**	BELT 1201 - 1198 J6
C001	**4820 000 27921**	SELF-SCRAPING SCREW 3,5X8
C002	**4820 000 90241**	POWER CORD 1.2m SHUKO 3X13PH
C003	**4820 000 90242**	C00382774 Bow
C004	**4820 000 89606**	DRAIN HOSE =2050 mm
C005	**4820 000 90243**	HOPPER COVER 10/11 KG INNEX
C007	**4820 000 23288**	LINEAR PRESSURE SWITCH 2,5 0:300mm SMALL
C008	**4820 000 27923**	HOSE CLAMP
C009	**4820 000 88308**	PIPE PRESSOSTAT L=710
C011	**4820 000 90244**	C00382775 Screw motor-tub

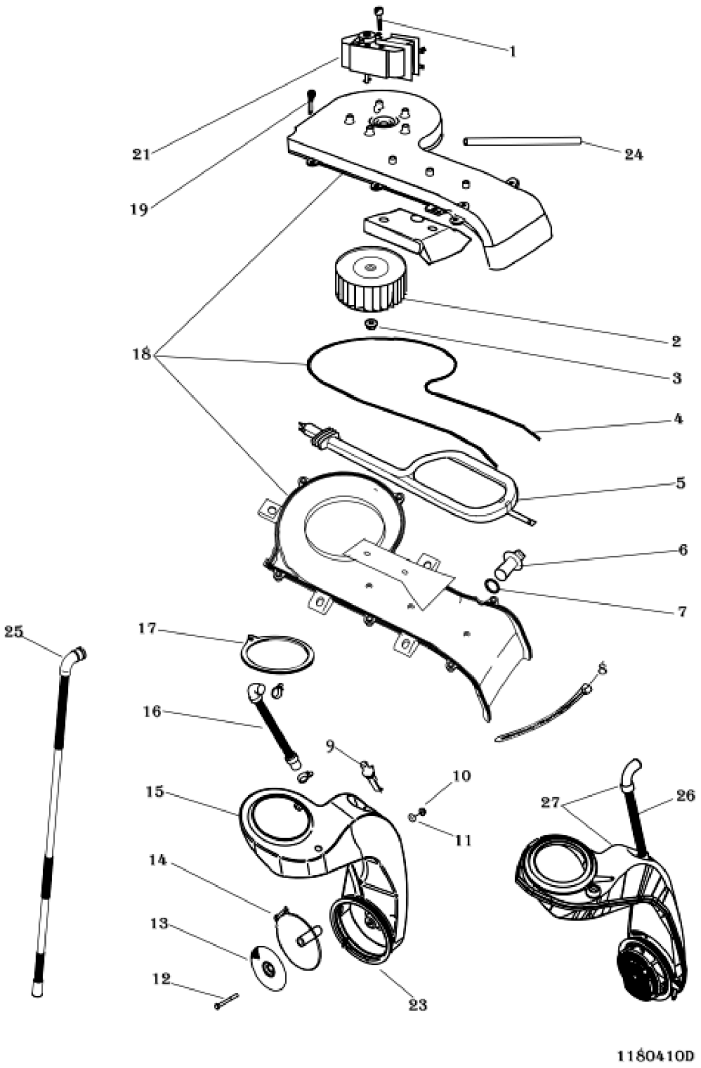
Pos	12NC	Description
C012	**4820 000 90245**	MOTOR 3Ph P60 D23.2mm CONNECT.PROT
C013	**4820 000 90246**	C00382776 Pump 220-240V 50Hz
C014	**4820 000 22946**	FILTER ELEMENT KIT
C014	**4820 000 23381**	FILTER ELEMENT KIT COPRECI
C015	**4820 000 90247**	C00382777 Heating element wash 1700W/230
C016	**4820 000 90248**	Sensor NTC
C017	**4820 000 90249**	DISPENSER BODY INDESIT INNEX 10/11 KG WD
C018	**4820 000 90250**	DETERGENT DRAWER INNEX 10/11 KG
C022	**4820 000 90251**	STOPPER DETERGENT CONTAINER INDESIT INNE
C024	**4820 000 21959**	C00383278 Adapter Smart Reader
C025	**4820 000 90356**	CARD WWDC9716 32KB SW 87938440002
C026	**4820 000 84895**	PROTECTING MODULE (MYLAR) (HL)
C027	**4820 000 23478**	MODULE Arc2.3ph FULL WD 850WED5 220/240V
C028	**4820 000 30462**	EMERGENCY DOOR RELEASE STRAP
C029	**4820 000 23344**	DOOR INTERLOCK 220-240 IST DLS2 + door s
C030	**4820 000 22577**	MAINS INLET HOSE COLD 25C 10BAR 1,5M ROH
C031	**4820 000 22812**	INLET VALVE - Triple inline
C032	**4820 000 22667**	SEAL - DISPENSER TO VALVE.
C033	**4820 000 25916**	SEALING WASHER-MAINS INLET HOSE
C034	**4820 000 25917**	INLET HOSE FILTER
C035	**4820 000 27185**	ELECTROVALVE SUPPORT 1 EV
C036	**4820 000 90253**	C00382779 Wiring heating element-filter
C036	**4820 000 90254**	C00382780 Wiring display-module
C036	**4820 000 90255**	C00382781 Wiring evp evl ntc arcadia2
C036	**4820 000 90256**	C00379611 Cable harness door switch-pump
C036	**4820 000 90257**	C00382783 Wiring wash motor-module
C036	**4820 000 90258**	C00382784 Wiring pressure switch-sensor
C036	**4820 000 90259**	C00382785 Cable harness valves eva+ntc
C036	**4820 000 90260**	C00382786 Wiring dryer heater-motorfan
C036	**4820 000 90261**	C00382787 Wiring earth
C037	**4820 000 91632**	DIVIDER FOR SOAP DISPENSER DRAWER INNEX
C099	**4820 000 90262**	C00087815 Screw timer 1/2 t4, 2x12.7
D001	**4820 000 90263**	WORKTOP - 71LT COMBO POLAR WHITE
D002	**4820 000 90290**	C00382795 Display board combo core green
D003	**4820 000 89389**	PCB SUPPORT BIG DIGIT INNEX
D004	**4820 000 90265**	C00379286 Frame display combo
D005	**4820 000 90357**	DRYER PUSHBUTTON SYMB BLACK COMBO
D006	**4820 000 90358**	OPTION BUTTON IRIGHT (2) SYMB COMBO CORE
D007	**4820 000 90359**	OPTION BUTTON SYMB BK COMBO CORE LEFT
D008	**4820 000 90360**	SPIN SPEED SYMBOLSPUSHBUTTON BLACK COMBO
D009	**4820 000 90361**	CONTROL PANEL+HANDLE EU WWDC9716
D010	**4820 000 90271**	C00382789 Push button start/pause grey
D011	**4820 000 90296**	C00382796 Push button on/off grey
D012	**4820 000 88958**	COLLAR COMPONENTS KNOB AQ HD LCD
D012	**4820 000 90297**	C00382797 Knob timer Bk/silv combo
D013	**4820 000 90298**	C00379790 Handle door Kit
D014	**4820 000 90299**	C00382799 Door frame + glass
D015	**4820 000 32157**	PLINTH WHITE PW INDESIT PRIINNEXME
D016	**4820 000 23379**	FOOT
D017	**4820 000 27600**	FOOT SPRING (11X8.5mm)

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Pos	12NC	Description
D018	**4820 000 88787**	BOLT TRLBT M4X8 T ESAG
D019	**4820 000 90276**	C00382790 Hinge
D020	**4820 000 88235**	HINGE PLATE DOOR FUTURA
D021	**4820 000 22669**	BOLT M4,5 X 8
D022	**4820 000 28929**	REAR COVER - WHITE PW
D023	**4820 000 90277**	C00382791 Cable clamp
D023	**4820 000 90278**	C00382792 Cable clamp hose
D023	**4820 000 22035**	CABLE CLAMP HOSE
D024	**4820 000 90279**	C00382793 Cap serial port
D025	**4820 000 90280**	CABINET WHITE PW 535 INDESIT INNEX
D026	**4820 000 90281**	C00143376 Insulation Kit eco silent
D026	**4820 000 83108**	INSULATION PAD (SIDE PANEL)
D027	**4820 000 27167**	DRAIN HOSE HOLDER
D027	**4820 000 27172**	DRAIN HOSE COLLAR
D028	**4820 000 90282**	C00382794 Lever security Kit
D099	**4820 000 88295**	BRACKET KIT CABINET
D099	**4820 000 90262**	C00087815 Screw timer 1/2 t4, 2x12.7

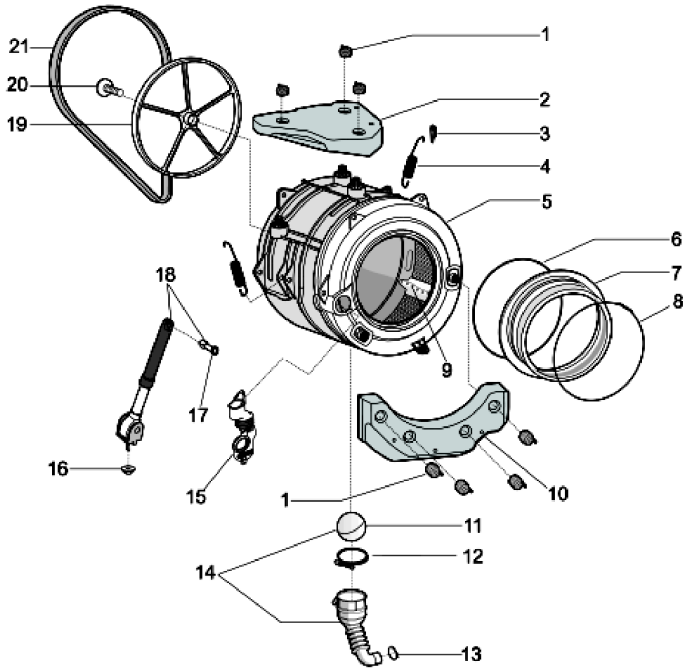
Exploded View

1180410D A...



Exploded View

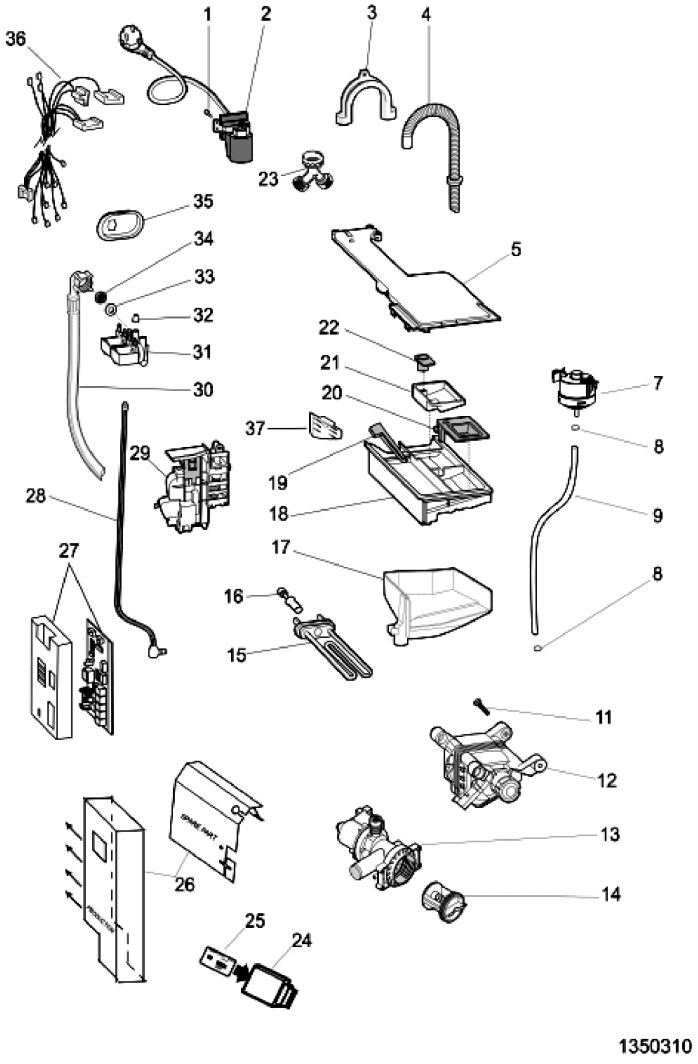
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1350220

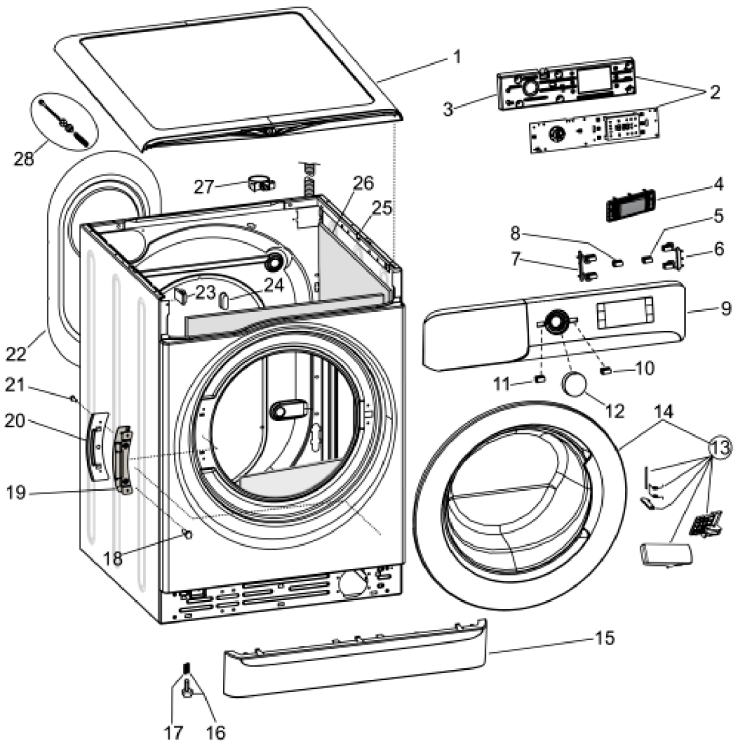
Exploded View

1350310 C...



Exploded View

1370110 D...



1370110

Technical Data

Electrical base data	
Voltage	230V
Frequency	50/60Hz
Fuse	there isn't
Energy Consumption (washing + drying)	71lt = 7,48Kwh 58lt = 6,12Kwh

Drum Data	
Volum	71lt / 58lt
Wash Speed	71lt= 13on/2off a 47rpm 58lt =13on/2off a 47rpm e 10on/1off a 47rpm
Drying Speed	rpm
Max Spin	1200, 1400 e 1600 rpm

Pressure Switch	
Level 1	liv1 su71lt =50-35 liv1su 58lt=60-40
Overflow	500 dl su 71lt 450 dl su 58lt (liv max di overflow per pressostato lineare)

Door Lock	
Kind of switch	
Nominal voltage	230V
Locking time	20 ms
Unlock time	60 ms

Inlet valve	
Nominal voltage	230V
Frequency	50/60 Hz
Rated flow	7 l/min +/- 15%
Pressure range	0,5 - 10 bar
Nominal resistance	3750 Ohm @ 20 °C

Drain Pump	
Nominal voltage	230V
Total power	20W
Frequency	50 / 60 Hz
Resistor (coil)	290 Ohm
Capacity	16 l/min

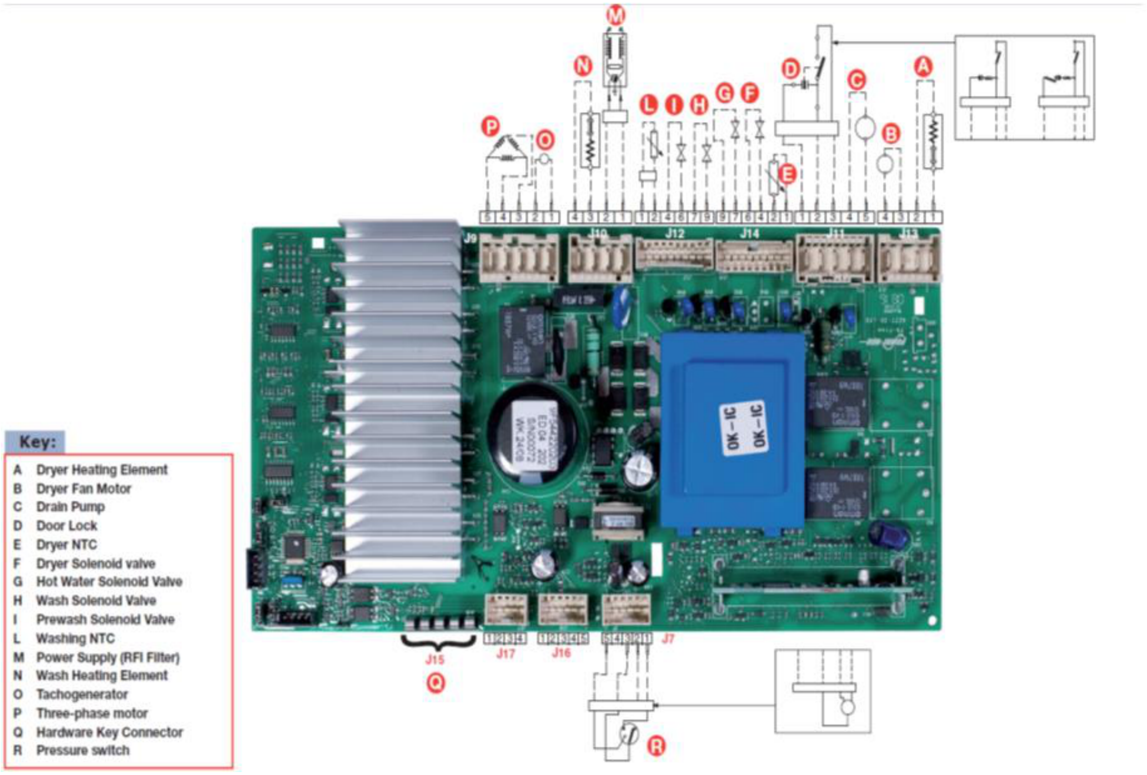
Heating element	
Nominal voltage	230V
Total power	1700 W
Resistance (20 °C)	28 Ohm
Leakage current	
NTC sensor	20 kOhm @ 25 °C

RESISTENZA NTC	
0 °C	35.9 kΩ
30 °C	9.8 kΩ
40 °C	6.6 kΩ
50 °C	4.6 kΩ
60 °C	3.2 kΩ
70 °C	2.3 kΩ
95 °C	1.1 kΩ

Motor
Welling Trifase P50 and P60

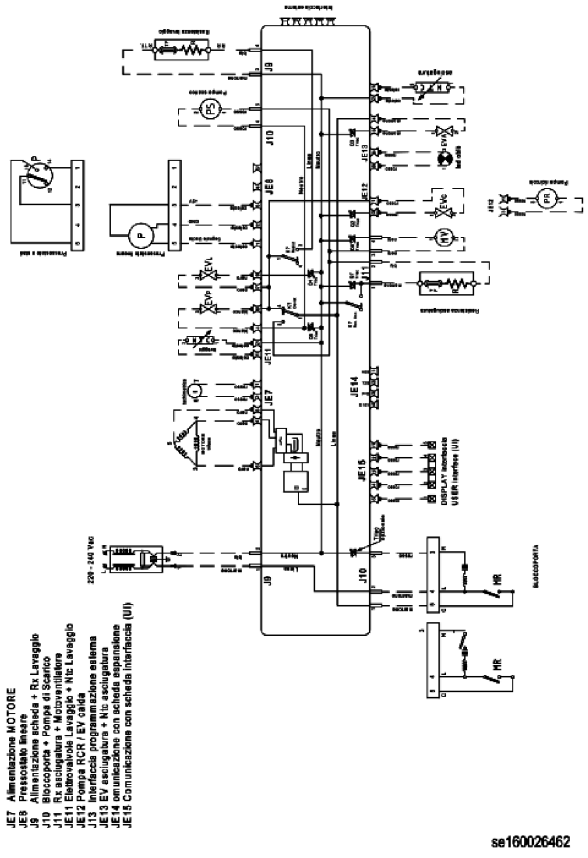
TIPO	DD - TM2
RESISTENZA CONTATTI	(25°C)
STATORE	9.4 Ω ± 0.46 Ω

Wiring Diagram



Circuit Diagram

Cod. 160026462



Legend

JE7	Motor
JE8	Pressostat
J9	Board connection + Rx washing
J10	Door safety switch + drain pump
J11	Rx drying + fan
JE11	Valve + sensor, temperature (NTC) washing
JE12	Drain pump / valve hot
J13	External program UI
JE13	Valve + sensor, temperature (NTC) drying
JE14	Control unit
JE15	Control unit UI

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Testprogram



Start with the appliance off and the program selector set to the top position (at 12 o'clock).

1. Switch on the appliance and turn the selector clockwise by one position. Switch off the appliance and turn the selector back to the original position.
2. Switch on the appliance and turn the selector clockwise by two positions. Switch off the appliance and turn the selector back to the original position.
3. Switch on the appliance and turn the program selector counterclockwise by one position then press the Start button.

Error Codes

FAULT	CAUSE	SERVICE ACTIONS
F01	Main PCB, Triac on board damaged or components Feedback fault	- Check for water leaks that may affect connectors J009 (Commutator) or **J009** (Three-phase) causing the relative contacts to short; - Check the motor terminal board (any problems due to aggression caused by manufacturing chemical residues that may cause short circuits); - Check the connection on the wash heating element; - Check efficiency of connector **J001** (Commutator) or **J010** (Three-phase) on the PCB; - Check connector **J001** (Commutator) or **J010** (Three-phase) pins 3 and **4** for continuity of the wash heating element (1700 watt - 230 volt) which must be 30 Ohm +/- 10%. Otherwise, renew heating element; - Check for water leaks that may affect connectors **J006** (Commutator) or **J007** (Three-phase) causing the relative contacts to short; - Check the terminal board (any problems due to aggression caused by manufacturing chemical residues that may cause short circuits); - Check wiring of connectors **J006** (Commutator) or **J007** (Three-phase)/Pressure switch; - Disconnect appliance for 2 minutes. Check wiring and connectors of the dryer heating element on main PCB board side and component side; - Check that correct operation has been restored by starting the Autotest routine; - Renew main PCB.
F02	Motor tripped, motor tachogenerator open circuit / or short circuit	- Check for water leaks that may affect connector **J9** causing the contacts to short circuit; - Check to ensure motor is not mechanically jammed or seized; - Check efficiency of the contacts on connector **J9** on the PCB; - Check the motor side connector; - Check motor winding and check that the impedance value on wiring connector **J9** between pins **3** and **4**, **4** and **5**, **3** and **5** is less than 100 Ohm; - Check the tachogenerator winding and check that the impedance value on wiring connector **J9** between pins **1** and **2** is between 115 and 170 Ohm;
		- Check the tachogenerator wiring; - Disconnect appliance for 2 minutes. Check that correct operation has been restored by starting the Autotest routine; - Renew motor; - Renew PCB.

FAULT	CAUSE	SERVICE ACTIONS
F03	Sonda NTC lavaggio in Corto o aperta	- Controllare efficienza contatti del connettore **J005** (collettore) o **J12** (trifase) sulla scheda; - Verificare NTC controllando sul connettore cablaggio **J005** (collettore) o **J12** (trifase) pin **1** e **2** che il valore di resistenza a temperatura ambiente (20°C) sia circa 20 kΩ; - Nel caso la misura risulti errata controllare continuità cablaggio **J005** (collettore) o **J12** (trifase) pin **1** e **2**/NTC; - Controllare direttamente su NTC lo stesso parametro (20 KΩ); - Sostituire NTC; - Sostituire scheda.
F05	Pressure switch empty condition not reached (valid for linear and status pressure switch) or drain pump jammed (valid for linear and status pressure switch)	- If status type pressure switch, check component directly; - Check efficiency of connector contacts on PCB; - Check pressure switch wiring; - Check continuity of pump on connector pins **4** and **5** (in case of classic door lock), ensuring that impedance value is 170 Ω +/- 10%; - Check the wiring of pins **4** and **5**(/pump; - Check pump filter, drain hose and wall drain outlet; Reset the appliance with the OFF button, also after Fault resetting with plug. Check the appliance pressure switches reaches full without Faults at the next cycle; - Replace the drain pump; - Replace the linear pressure switch; - Replace the main PCB.
		- Check for water leaks that may affect connectors J004 (collector) or J11 (three-phase) causing the relative contacts to short; - Check the door lock terminal board (possible problems due to aggression caused by manufacturing chemical residues that may cause short circuits);
F06	Door lock fails to close/open, door lock PTC triac open/closed, mains frequency signal fault, mains power signal fault	- Check J004/door lock wiring; - Replace door lock; - Replace PCB.

FAULT	CAUSE	SERVICE ACTIONS
F07	Wash heating element relay open/diverter relay sticking on drain pump side	- Check efficiency of contacts on connector **J001**(commutator) or **J10** (three-phase) on PCB; - Check continuity of wash heating element on connectors **J001**(Commutator) or **J10** (Three-phase), pins **3** and **4**. The 1700W 230V heating element impedance value is 30 Ohm +/- 10%. If value is different renew wash heating element; - Renew PCB.
F08	Wash heating element relay earth leakage/wash heating element relay contacts sticking	- Check efficiency of contacts on connector **J001**(commutator) or **J10** (three-phase) on PCB; - Check leakage between the two ends and ground, impedance should be at least 2 MOhm; - Renew heating element; - Renew PCB.
F09	Setting File error detected by Main PCB or Display PCB	- Disconnect appliance for 2 minutes. Check that correct operation has been restored by starting the Autotest routine; - Reprogram Main PCB; - Renew main PCB; - Renew display PCB.
F11	Pump not wired or pump driving triac short circuit	- Check efficiency of contacts on connector **J004** (commutator) or **J11** (three-phase) on PCB; - Check continuity on connector **J004** (commutator) or **J11** (three-phase), pins **4** and **5** (in the case of classic door lock); - Check continuity of pump, ensuring that impedance value is 170 Ohm +/- 10%; - Check wiring of connector **J004** (commutator) or **J11** (three-phase)/pump; - Renew pump; - Renew PCB.
F12	Communication error between Main PCB and Display PCB	- Check efficiency of contacts on connector **J010** (Commutator) or **J16** (Three-phase) on main PCB; - Check efficiency of contacts on Display PCB; - Check continuity of **J010** (Commutator) or **J16** (Three-phase)/ Display PCB wiring; - Disconnect appliance, wait for 2 minutes and reconnect to power supply, then start autotest routine; **If problem persists proceed as follows:** - Renew main PCB; - Renew display PCB.

FAULT	CAUSE	SERVICE ACTIONS
F13	NTC dryer sensor open / short-circuiting. Fan Motor jammed. Condenser or blower clogged	- Check the condenser filter is not clogged; - Check there is no fluff in the blower fan; **If the components are clean or the problem persists despite cleaning, then:** - Check the efficiency of the connector contacts of the NTC on the main PCB; - Check the impedance value of the NTC on the relevant connector (next to Main PCB) between pin **1** and pin **2**. The impedance value at ambient temperature (20°C) must be approximately 20kΩ; - If measurement is incorrect, check NTC wiring; - Check the same parameter (20kΩ) directly on the NTC. - Replace the NTC; - Replace the main PCB.
F15	Triac+dryer heating element short-circuit / dryer heating element leakage on thermofuse side / dryer heating element interrupted / diverter relay sticking on wash heating element side / dryer heating element pin feedback in short-circuit with Vdc / Pump not wired / short-circuit of triac driving pump / diverter relay sticking on wash heating element side / drain pump pin feedback in short-circuit with Vdc / Prewash solenoid valve not wired.	- Check efficiency of relative contacts on the connector on PCB side; - Check the connector of the dryer heating element (1500W / 230V), ensuring between pins **1** and **2** that the impedance value is approximately 36 Ω; - Check leakage between the two ends and ground, impedance should be at least 2 MΩ; - Check efficiency of Drain Pump contacts on PCB; - Check continuity of Drain Pump on connector (pins **4** and **5** in case of classic door lock), ensuring that impedance value is 170 Ω +/- 10%; - Check the drain pump wiring; - Check the Solenoid Valve connectors and wiring; - Replace the drain pump; - Replace the dryer heating element; - Replace the damaged solenoid valve; - Replace the main PCB.
F16	Drum locking (top-loading only)	- Check for 220 V power at the lock; - Check the connectors; - Check continuity of wiring; - Replace PCB.
F18	No UART communication between DSP and Main	- Disconnect appliance for 2 minutes. Check that correct operation has been restored by starting the Autotest routine; - If fault reappears renew main PCB.
F19	Fan motor not wired / Fan motor driving triac short circuit or Switch relay contacts sticking / Fan motor pin feedback in shot circuit with Vcc	- Check efficiency of connector and wiring continuity on the blower fan; - Check efficiency of connector and wiring continuity on the heating element of the blower; - Check fan motor is not in short circuit or open circuit; - Check fan motor turns freely (it is not blocked partially); - Replace the main PCB.

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