Service Information

ADP 201 WH

8511 249 61000
Last Modification: 21/01/17
Creation Date: 16/12/15



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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 21997**	UPPER WASH ARM FEED PIPE
A002	**4820 000 21998**	RACK GUIDE CASING
A003	**4820 000 21999**	UPPER WASH ARM FEED PIPE
A004	**4820 000 22000**	SET UPPER WASH ARM CURVED 45CM
A005	**4820 000 22001**	INLET HOSE 1500mm
A007	**4820 000 22002**	HOSE SUPPORT 45CM
A008	**4820 000 92649**	Part not avail.
A009	**4820 000 22003**	SUPPLY CABLE SCHUKO WITHOUT FILTER
A010	**4820 000 22004**	CENTRAL FILTER
A011	**4820 000 22005**	OUTER FINE ROTATING FILTER
A012	**4820 000 22006**	OUTLET FILTER STAINLESS INOX 45CM
A013	**4820 000 22007**	WATER CHANNELER
A014	**4820 000 22008**	SUMP FIXING FERRULE
A015	**4820 000 92649**	Part not avail.
A016	**4820 000 22009**	DRAIN PUMP 45-60 CM EOS
A017	**4820 000 22010**	FLAP FOR SET SUMP
A018	**4820 000 22011**	SET SUMP 45CM
A019	**4820 000 22012**	DRAIN HOSE 45-60CM 1750MM
A020	**4820 000 22013**	FLOAT - OVERFLOW UNIT 45CM
A023	**4820 000 22014**	PRESSURE SWITCH 80/60
A024	**4820 000 22015**	PIPE PRESSOSTAT
A025	**4820 000 92649**	Part not avail.
A027	**4820 000 22018**	WASH MOTOR/PUMP 220-240V(45CM) + SEAL
A028	**4820 000 22017**	PIPE SUMP-WASH MOTOR
A029	**4820 000 22016**	HEATER AND SEAL (31.8ohm)+PIPE+ORING
A030	**4820 000 92649**	Part not avail.
A031	**4820 000 22019**	WATER SOFTENER
A032	**4820 000 22020**	TUBE WATER INLET ELECTROV/AIR-BREAK L450
A032	**4820 000 22021**	TUBE - SOFTENER/SUMP 100MM EOS
A033	**4820 000 22022**	AIR BREAK + TURBINE
A035	**4820 000 22023**	RING-NUT FOR AIR-FLOW BODY
A037	**4820 000 22024**	ELECTROVALVE 1E 1U
A038	**4820 000 22025**	SEAL - SOFTENER/WASH CHAMBER
A039	**4820 000 22026**	RETAINING RING - SOFTENER
A040	**4820 000 22027**	SALT CAP
A041	**4820 000 22028**	SALT FUNNEL
A042	**4820 000 22029**	SUPPORT - LOWER WASH ARM BUSH 45CM
A043	**4820 000 22030**	LOWER SPRAY ARM 45CM
A044	**4820 000 22031**	RING NUT OF UPPER WASH ARM
A045	**4820 000 22032**	PIPE WASH MOTOR-SPRAY ARM(Y) HANNING
A099	**4820 000 22033**	CLAMP FOR ELECTROVALVE EVO3 D17.8
A099	**4820 000 22034**	HOSE CLAMP D=14,9
A099	**4820 000 22036**	HOSE CLAMP D=45,5 PIPE SUMP/MOTOR PUMP
A099	**4820 000 22037**	HOSE CLAMP D=38,1 PIPE SYNCR.MOT/WASH AR
A999	**4820 000 22040**	HOSE CLAMP D=44
A999	**4820 000 22039**	TIE L=276
B003	**4820 000 22041**	ELECTRODISP.(NO LAMP RINSEAID-REED)
B004	**4820 000 22042**	MICROSWITCH
B005	**4820 000 22043**	LOCKING ASSEMBLY DEA602 NEW 45CM
B007	**4880 005 03332**	WIRING SENSORE BRILLANTANTE NEBULA 45 CM

Pos	12NC	Description
B007	**4820 000 93035**	WIRING MODULE EARTH DOOR 45 CM WHR
B007	**4820 000 93034**	WIRING MOD.DEA700 SERIALE 45 CM DX NEBUL
B007	**4820 000 93033**	WIRING MOD.DEA700 RES-ALIMENT. 45 CM WHR
B007	**4820 000 22050**	WIRING DEA603 PRESSUR.SWITCH/BAC/TURBINA
B007	**4820 000 22049**	WIRING MODULO DISPENSER /MICRO PORTA
B007	**4820 000 22048**	WIRING DEA603 EV1/EV2
B007	**4820 000 22046**	WIRING SALT CARD-SOFTENER
B007	**4820 000 22045**	WIRING DEA602-DRAIN PUMP-MOTOR.(SIN)
B008	**4820 000 31209**	DOOR SHELL BOWED WHITE(PW) EOS 45CM
B009	**4820 000 40678**	HINGE ITEM RIGHT F.S. 45CM EOS
B009	**4820 000 22063**	HINGE SCREW M5X14 TSP 6L-T20 90G
B010	**4820 000 22055**	HINGE WIRE 45CM EOS
B011	**4820 000 40677**	HINGE ITEM LEFT F.S. 45CM EOS
B012	**4880 003 85178**	TIMER DEA 603 STRIP FW WHR 45 CM
B013	**4820 000 21959**	C00383278 Adapter Smart Reader
B014	**4880 003 85414**	CARD ADP201WH 8KB SW30962230106
B015	**4880 003 08359**	SPACER INNER DOOR POLYESTR. 45 NP
B015	**4820 000 22081**	INNER DOOR PANEL + GASKET 45CM
B016	**4880 005 03333**	SEAL FRONT FS/BI 45
B017	**4880 003 85572**	FS LED 6B ESSENTIALI SYNC WHR BAUK
B018	**4880 003 85571**	FRONT PIECE ADP201WH
B019	**4880 005 04761**	BUTTONS CORE ESSENT. WHITE RIGHT
B020	**4880 005 04526**	HANDLE FS,WH,WHITE
B021	**4880 005 04530**	BUTTONS CORE WHITE -LEFT
B099	**4880 005 04523**	SEAL FRONT FS 45
B999	**4820 000 23787**	SCREW
B999	**4820 000 22062**	FIXING BOLT INNER DOOR/DASHBOARD
B999	**4820 000 22065**	TANK BORDER TOP STRIP FS. 45
B999	**4820 000 91351**	HINGE ITEM RIGHT
B999	**4820 000 22064**	FIXING BOLT INNER/OUTER DOOR EOS
C001	**4820 000 21980**	SUPPORT
C001	**4820 000 31208**	COVER WHITE(PW) EOS 45CM
C002	**4820 000 21981**	REAR SUPPORT - TOP 45CM NEW
C003	**4820 000 21983**	SOUNDPROOFING SX+DX+TOP 45CM BI
C004	**4820 000 21990**	COVER FIX (SX) LH
C005	**4820 000 21996**	DOOR SPRING ADJUSTER LUCE
C006	**4820 000 31486**	LEFT + RIGHT SIDES PANEL KIT WHITE(PW)
C007	**4820 000 21978**	COVER FILTER DEA700 HANNING
C007	**4820 000 21977**	RADIO INTERFERENCE SUPPRESSOR
C008	**4820 000 31600**	BASE + FEET (F.S.) 45CM
C009	**4820 000 85458**	BASE MOULDING COVER PLATE LEFT WHITE(PW)
C010	**4820 000 21967**	TRAY ON BOTTOM OF TUB 45CM
C011	**4820 000 30621**	ADJUSTABLE FOOT
C012	**4820 000 87065**	PLINTH PANEL SWELL WHITE(PW) EOS 45CM
C013	**4820 000 30623**	BASE MOULDING COVER PLATE RIGHT WHITE(PW
C014	**4820 000 21972**	FIXING PLATE FOR RUNNER SUPPORT
C015	**4820 000 21973**	RAIL FRONT STOP SLIM PLP2
C016	**4820 000 21974**	BASKET RUNNER - UPPER EOS
C017	**4820 000 21986**	RAIL BACK STOP
C018	**4820 000 31486**	LEFT + RIGHT SIDES PANEL KIT WHITE(PW)

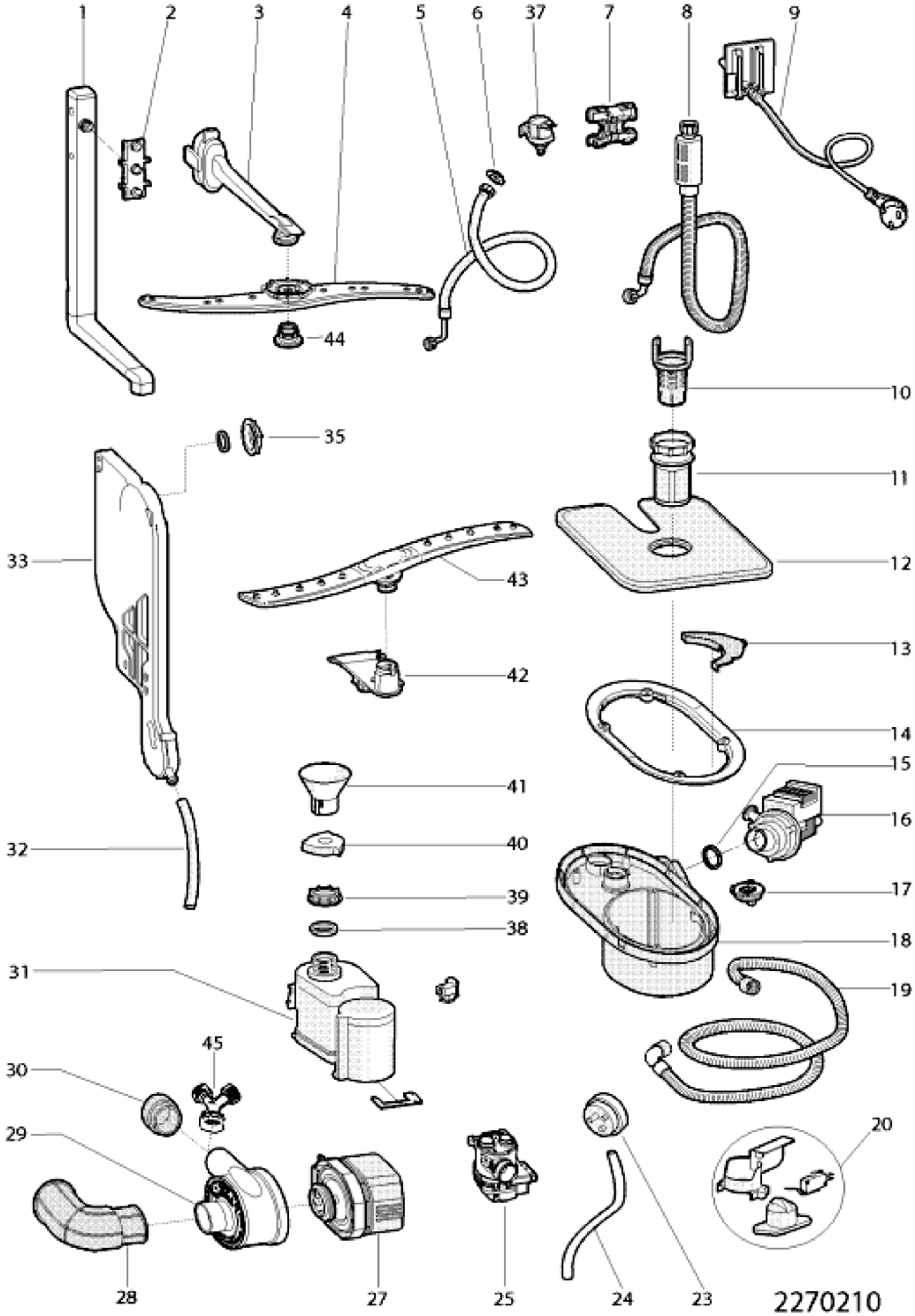
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Pos	12NC	Description
C019	**4820 000 21985**	FRAME SUPPORT FOR TUB SEAL
C020	**4820 000 21984**	DOOR SEAL - TOP AND SIDES 45CM EOS
C021	**4820 000 21991**	COVER FIX (DX) RH
C022	**4820 000 21982**	CATCH PLATE NEW
C023	**4820 000 92649**	Part not avail.
C024	**4820 000 21987**	FLAP GREY PLP2 45
C025	**4820 000 21960**	RACK HANDLE (RAL 7040)
C025	**4820 000 21961**	UPPER BASKET WHP 45 BASIC SILVER GRAY
C026	**4820 000 21962**	UPPER BASKET ROLLER EVO3
C027	**4820 000 21960**	RACK HANDLE (RAL 7040)
C027	**4820 000 21964**	LOWER BASKET MED/HIGH 45 SILVER GRAY
C028	**4820 000 21988**	CUTLERY BASKET COVER GREY 45CM
C028	**4820 000 21963**	CUTLERY BASKET GREY 45CM EOS
C029	**4820 000 21965**	LOWER BASKET WHEEL
C029	**4820 000 21966**	BASKET WHEEL AXIS
C999	**4820 000 21989**	SERIAL PORT COVER
C999	**4820 000 21993**	BASKET BUFFER
C999	**4820 000 32216**	FIXING HOLE PLUG
C999	**4820 000 93040**	LOWER BASKET BUFFER EVO3

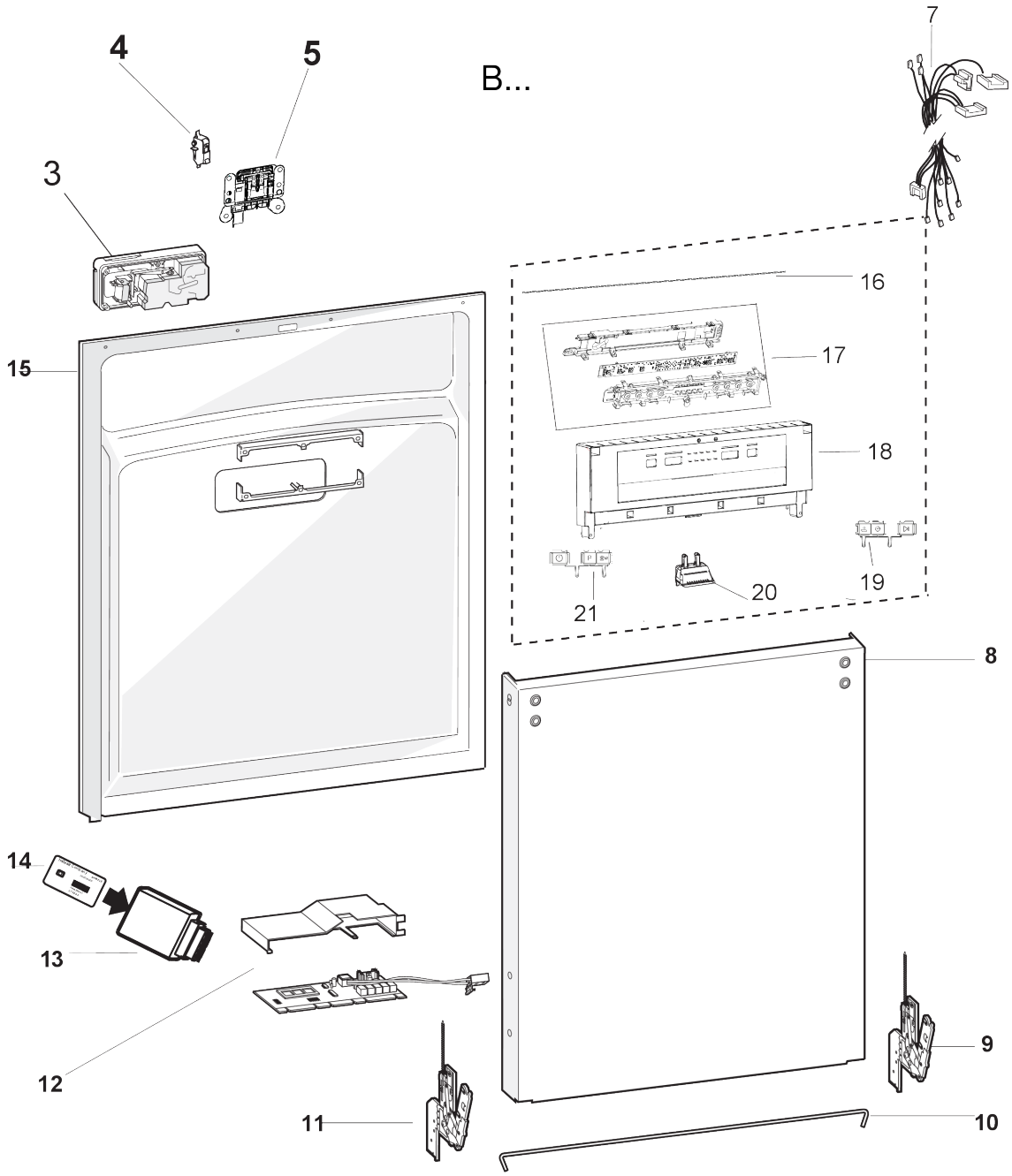
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Exploded View

A..



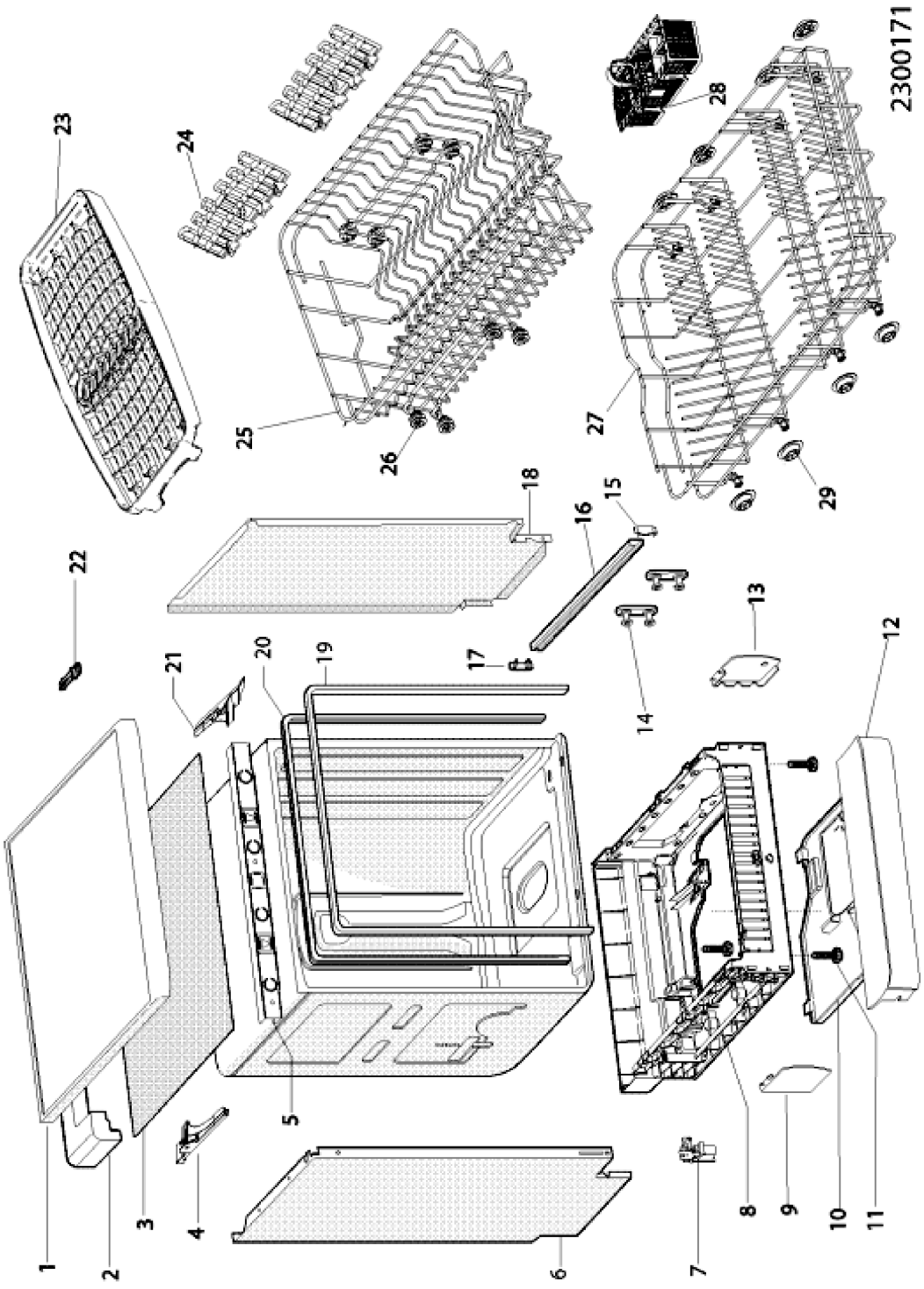
Exploded View



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Exploded View

C..



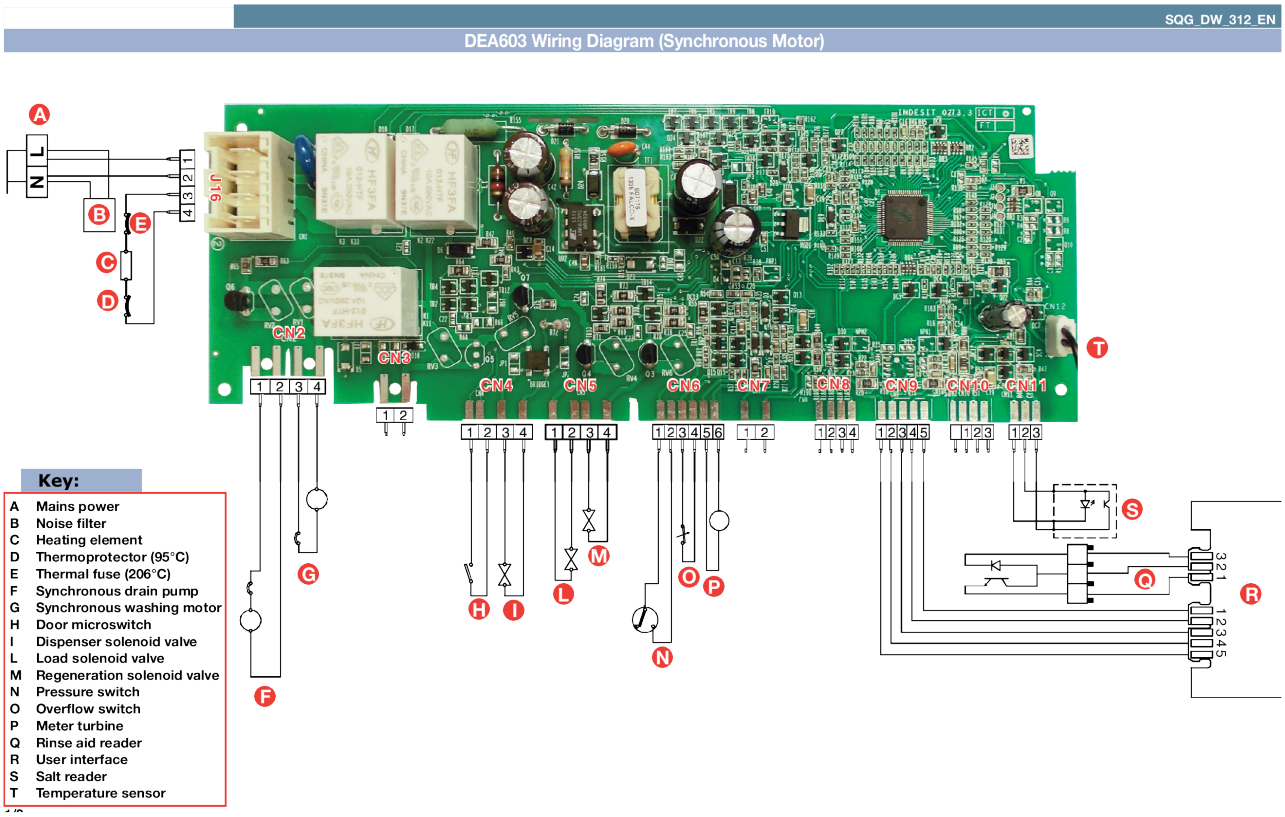
Technical Data

Dimensions + Weight

Product dimensions
- Height ..... 85.0 cm
- Width ..... 45.0 cm
- Depth ..... 57.0 cm
- Weight
  - net ..... 39.5 kg

Control board

..... DEA 603



Spray pump motor

..... Syncronous
- Type ..... CP035_005
- Voltage ..... 220 V / 50 Hz
- Current ..... 0.5 A
- Power Consumption ..... 60 W

Radio interference filter ..... 0.1µF (X2) + 2x 27nF (Y2)

Electrical base data

Voltage ..... 220 - 240 V / 50 Hz
Total power ..... 1.9 kW
Fuse ..... 10 A

Heating

Type
Type PC47
Voltage ..... 230 - 240 V / 50Hz
Power Consumption ..... 1.8 / 1.96 kW
Heating resistances ..... (T=20°C) ..... 26.1 Ω
Heating speed ..... ~2.0 °C/min
Safety thermostat self reset (Temperature of water) ..... 100 °C
Fuse ..... 206 °C
Temperature on surface ..... ~115 °C

NTC

0 °C	1794.3	kΩ
5 °C	1351.2	kΩ
10 °C	1025.8	kΩ
15 °C	785.0	kΩ
20 °C	605.2	kΩ
25 °C	470.0	kΩ
30 °C	367.4	kΩ
35 °C	289.1	kΩ
40 °C	229.0	kΩ
45 °C	182.4	kΩ
50 °C	146.2	kΩ
55 °C	117.8	kΩ
60 °C	95.4	kΩ
65 °C	77.7	kΩ
70 °C	63.5	kΩ
75 °C	52.2	kΩ
80 °C	43.1	kΩ
85 °C	35.8	kΩ
90 °C	29.8	kΩ
95 °C	24.9	kΩ
100 °C	20.9	kΩ

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Drain pump motor

Voltage ..... 220 - 240 V / 50 Hz
Power Consumption ..... 30 W
Resistance ..... 146 Ω

Inlet valve aquastop

Voltage ..... 220 - 240 V
Frequency ..... 50 / 60 Hz
Resistance
Inlet pressure ..... 0,3 - 10 bar
Power Consumption ..... 13 W

Pressostat

Pressure range ..... 85 - 65 mbar

Regeneration valve

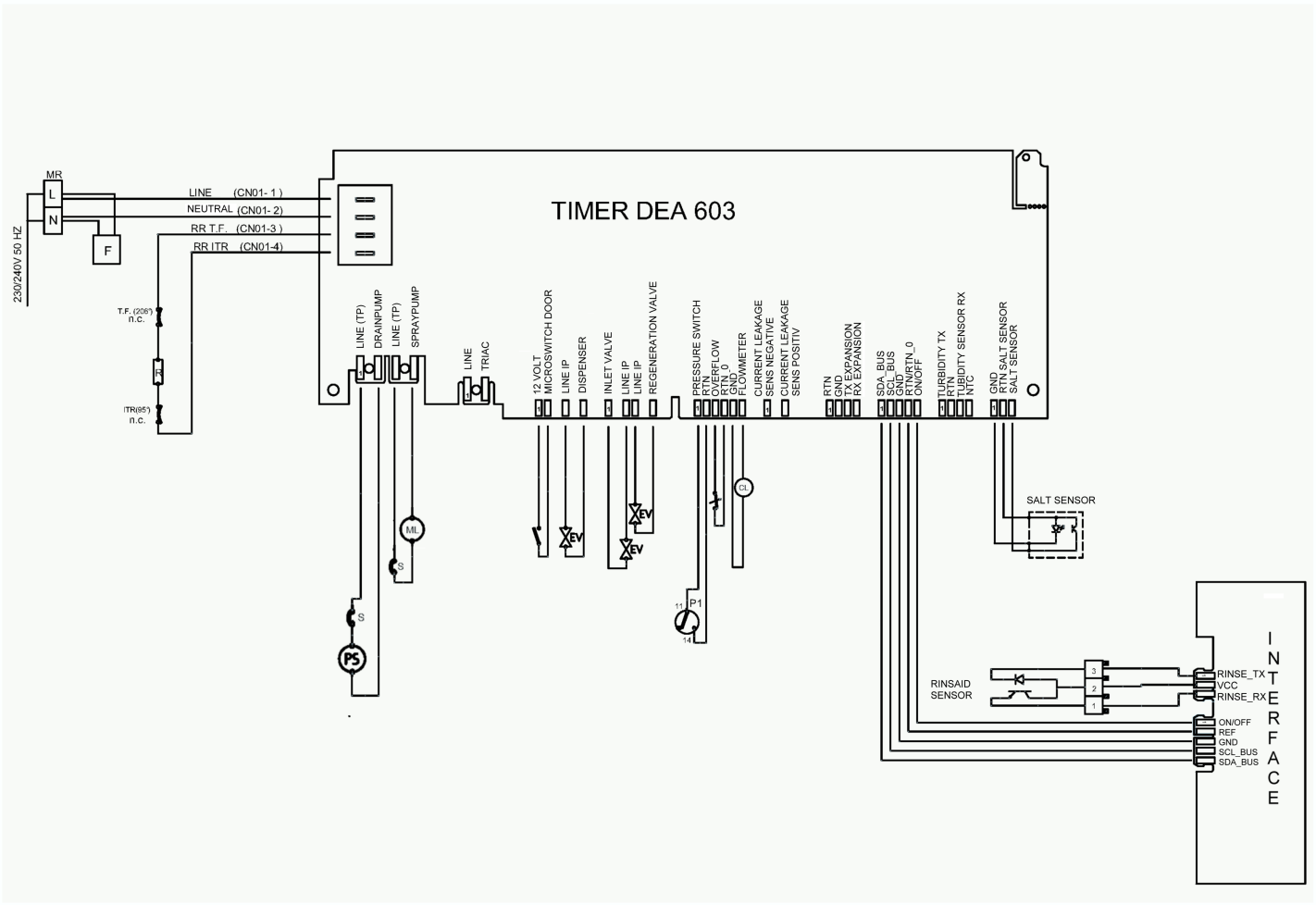
Voltage ..... 220 / 240 V
Frequency ..... 50 / 60 Hz
Power ..... 7 W
Resistance ..... 3,75 kΩ

Coil of dispenser

Voltage ..... 230 / 240 V
Frequency ..... 50 Hz
Resistance ..... 5,160 kΩ

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Circuit Diagram



Testprogram

Service Quick Guide

SQG_DW_23_EN

AUTOTEST EOS DEA 700 - PLP 2 - Synchronous and BLAC* Motor

Models Covered:

TAll **EOS** dishwashers with electronics **DEA 700 - PLP 2 - Synchronous and BLAC* Motor**

Steps to complete before starting the autotest cycle:

1. close dispenser door
2. place a thermometer on drum (not essential for the test)
3. mount clear door - in this case, use a closure device to simulate electrical closure of door - (not essential for the test)
4. complete the autotest entry sequence

Entry sequence:

BUILT-IN INSTALLATION

- Switch on with on/off button
- Press P
- Press P
- Switch off with on/off button
- Press P
- Press P
- Switch on with on/off button
- Close the door to start autotest



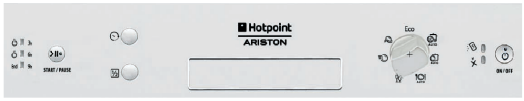
LCD-DISPLAY:

- Switch on with on/off button
- Switch off with on/off button
- Press button (P) top arrow
- Press button (P) top arrow
- Switch on with on/off button
- Press Start/Pause to start autotest



SELECTOR KNOB:

- Switch on with on/off button
- Switch off with on/off button
  (start position different for 3 and 5)
- Turn selector knob to program 5 position (prog. 3)
- Turn selector knob to program 1 position
- Turn selector knob to program 5 position (prog. 3)
- Switch on with on/off button
- Press Start/Pause to start autotest



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AUTOTEST EOS DEA 700 - PLP 2 - Synchronous and BLAC* Motor

Last Fault Management:

On starting the autotest sequence, after completing the autotest entry sequence:
The dishwasher **shows the code of the last fault detected during a wash cycle**.
This is displayed for 15/20 seconds, after which it indicates the start of the loads sequence.

Reset alarm:

During the autotest procedure, to reset the last alarm that occurred during a wash cycle, you must run an autotest cycle right through until there are no more errors.

Autotest Sequence:

The autotest sequence in machines DEA 700 – PLP2 with "L"-shaped plumbing layout (BLAC Motor with two sprayer arms) is as follows:

1. VDisplay of last fault (if any) for 15/20 seconds
2. The machine is drained to empty status + 15 seconds (D-Sensor); meantime the alternating wash motor is repositioned to operate with the bottom delivery outlet open
3. Empty status is verified by the wash pump (W-sensor), running with the bottom delivery outlet open at 1400 rpm for 40 seconds
4. The tub takes in 2 litres of water, with activation of the W-sensor to confirm full status
5. Another 2 litres are added in dynamic mode
6. The wash pump is activated for 30 seconds with the top delivery outlet open
7. The pump is switched to the bottom outlet for 30 seconds
8. The wash heating element is activated, with the wash pump running at 2500 rpm, and the temperature raised to 30 °C
9. The machine is drained to empty status (D_sensor) + 15 seconds
10. The dispenser is opened by activating the solenoid valve for 2 seconds
11. 10-second pause
12. Service action: once the dispenser has opened, open the door, remove the salt cover and insert the door needle
13. The regenerate solenoid is activated for 5 seconds
14. The fill solenoid valve and regenerate solenoid valve are activated for 10 seconds. Check for outflow of water from the salt container
15. The Turbo Dry Fan is activated (if installed)
16. Drain to empty status (D-Sensor) + 15 seconds

The autotest sequence in DEA 700 – PLP2 machines with "C"-shaped plumbing layout (BLAC motor with two spray arms and showerhead) is as follows:

1. Display of LAST FAULT (if any) for 15/20 seconds
2. The machine is drained to empty status + 15 seconds (D_sensor); at the same time, the alternating wash motor is repositioned to operate with the bottom delivery outlet open
3. Empty status is verified by the wash pump (W-sensor), running at 1400 rpm for 40 seconds
4. The tub takes in 2 litres of water, with activation of the W-sensor to confirm full status
5. Another 2 litres are added in dynamic mode

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AUTOTEST EOS DEA 700 - PLP 2 - Synchronous and BLAC* Motor

6. The wash pump is activated for 30 seconds on the top spray arm and showerhead delivery outlets
7. Flow is switched to the bottom spray arm and showerhead delivery outlets for 30 seconds
8. Flow is switched to the bottom and top spray arm delivery outlets for 30 seconds
9. The wash heating element is activated, with the wash pump running at 2500 rpm, and the temperature raised to 30 °C
10. The machine is drained to empty status (D_sensor) + 15 seconds
11. The dispenser is opened by activating the solenoid valve for 2 seconds
12. 10-second pause
13. Service action: once the dispenser has opened, open the door, remove the salt cover and insert the door needle
14. The regenerate solenoid is activated for 5 seconds
15. The fill solenoid valve and regenerate solenoid valve are activated for 10 seconds. Check for outflow of water from the salt container
16. The Turbo Dry Fan is activated (if installed)
17. The machine is drained to empty status (D_sensor) + 15 seconds

The Autotest sequence in DEA 700 – PLP2 Synchronous motor machines is as follows:

1. Display of last fault (if any) for 15/20 seconds
2. Activation of drain pump until pressure switch empty + 15 seconds
3. Activation of filling solenoid valve until pressure switch full status reached
4. Activation of wash motor until pressure switch empty status reached
5. The wash motor is switched off
6. Water filling until reaching a total of 4 liters
7. Activation of wash pump
8. Activation of drain pump + 10 seconds
9. Activation of dispense solenoid (for 15 seconds)
10. INTERVENTION BY THE TECHNICIAN (not essential for completing the autotest): immediately after hearing the sound of the dispenser opening, the technician must: open the door to check opening of the dispenser cover, remove the salt cap, insert a service needle in the door closing mechanism and check the proper functioning of the regeneration circuit, checking water coming out the salt container
11. Activation of regeneration solenoid valve for 15 seconds
12. The dispenser is opened by activating the solenoid valve for 2 seconds
13. 10-second pause
14. Service action: once the dispenser has opened, open the door, remove the salt cover and insert the door needle

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Error Codes

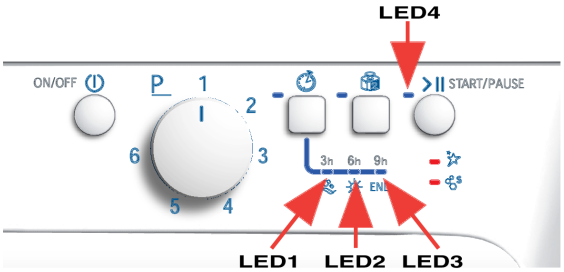
Service Quick Guide

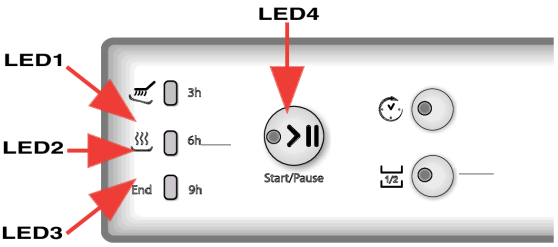
SQG_DW_13/7_EN

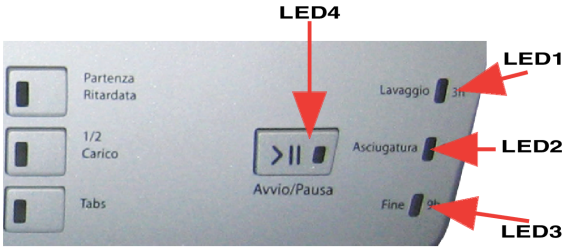
"EOS" Alarm Table (DEA 601/DEA 602/DEA 603/DEA 700)

LED interface Fault display:

IMPORTANT: Led interfaces only have been included, to show clearly how Faults are indicated. DIGIT and LCD (Display) interfaces are not included, given the ease with which Faults are identified (in writing). When Faults are being displayed, the Leds involved in their identification will remain alight and off, whilst the ON/OFF Led and others on the machine may blink rapidly.

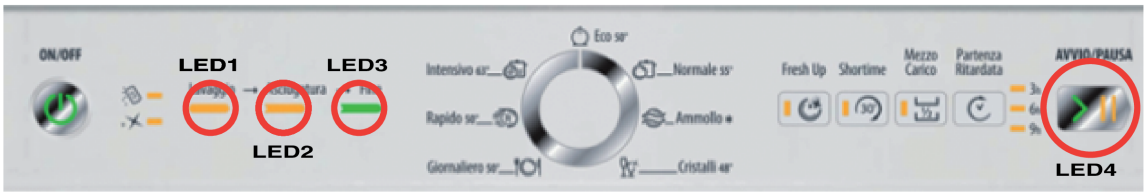












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"EOS" Alarm Table (DEA 601/DEA 602/DEA 603/DEA 700)

Fault	Name	LED combination			
		LED1	LED2	LED3	LED4
1	ANTI-FLOODING OVERFLOW	On	Off	Off	Off
2	WATER FILL SOLENOID VALVE FAILURE	Off	On	Off	Off
3	DRAIN TIMEOUT	On	On	Off	Off
4	THERMISTOR (NTC) not compliant	Off	Off	On	Off
5	PRESSURE SWITCH non compliant	On	Off	On	Off
6	WATER FILL TIMEOUT	Off	On	On	Off
7	WATER TURBINE damaged	On	On	On	Off
8	TEMPERATURE TIMEOUT (1 hour)	Off	Off	Off	On
9	Software recognition error. Main board not programmed	On	Off	Off	On
10	HEATING ELEMENT CIRCUIT not compliant	Off	On	Off	On
11	Wash Pump Failure	On	On	Off	On
12	COMMUNICATION error between main board and display	Off	Off	On	On
13	Main board NOT WORKING	On	Off	On	On
15	VIRTUAL SENSOR	On	On	On	On

ALARM	4 LED	6 LED	NAME	CAUSE	CHECKS
1	1 ■□□□	1 ■□□□□□	ANTI-FLOODING OVERFLOW	Bowl float microswitch electrical circuit OPEN! (must be closed)	- Water leak; - Float switch or wiring defective; - New main board: Eeprom was programmed off-site; to reset the alarm, switch off and switch on again using the ON/OFF button.
2	2 □■□□	2 □■□□□□	WATER FILL SOLENOID VALVE FAILURE	Fill valve admits water even when deactivated.	- Fill solenoid valve failure; - Main board fill solenoid valve triac short-circuiting; - Make certain drain hose is not on the floor.
3	1-2 ■■□□	1-2 ■■□□□□	DRAIN TIMEOUT	Maximum drain time elapsed.	- Drain pump blocked by foreign matter; - Drain pump faulty/disconnected; - Drain hose blocked; - Drain trap blocked; - Air bubble in hose; - Check drain pump wiring and connectors at component end and main board end; - Check integrity of drain pump impeller; - Replace drain pump.
4	3 □□■□	3 □□■□□□	THERMISTOR (NTC) not compliant	THERMISTOR (NTC) circuit not compliant (break in continuity or short-circuit)	- NTC sensor cables disconnected or damaged; - Cables or connectors disconnected or short-circuiting; - NTC sensor wet, short-circuit; - NTC sensor damaged, open circuit.

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“EOS” Alarm Table (DEA 601/DEA 602/DEA 603/DEA 700)

ALARM	4 LED	6 LED	NAME	CAUSE	CHECKS
5	1-3	1-3	PRESSURE SWITCH non compliant	Pressure switch has not indicated completion of fill, even though turbine has filled appliance with water correctly.	- Pressure switch faulty; - Pressure switch tube damaged; - Water in air trap; - Air trap damaged.
6	2-3	2-3	WATER FILL TIMEOUT	Maximum interval of time for completion of fill has been exceeded.	- Tap closed or partially closed; - Filler hose pinched; - Filler hose filter clogged/bent; - Water pressure low or flow meter doesn’t work; - Water solenoid valve faulty or disconnected.
7	1-2-3	1-2-3	WATER TURBINE damaged	Turbine has given no signal indicating entry of water, even though fill has effectively been completed.	- Turbine faulty or disconnected; - Connector terminals not making contact; - Turbine wiring faulty; - Turbine faulty, disconnected or wet; - WATER has been introduced manually; - Filler hose filter obstructed; - Pressure switch faulty.
8	4	4	TEMPERATURE TIMEOUT (1 hour)	Maximum interval of time for establishing temperature has been exceeded (1 hour).	- NTC sensor bracket detached from bowl; - Fault in electrical circuit of heating element; - Heating element ITR incorrectly calibrated/faulty; - Excessive suds; - Heating element false contact - NTC sensor incorrectly calibrated - Lime scale on heating element. Water hardness setting not compliant. User not putting in salt - NTC sensor separated from socket (replaces first check) - Heating element defective.
9	1-4	1-4	Software recognition error. Main board not programmed	Software recognition error Processor not programmed.	- Main board not programmed; - Incorrect setting file.
10	2-4	2-4	HEATING ELEMENT CIRCUIT not compliant	HEATING ELEMENT CIRCUIT not compliant (circuit open).	- Heating element cables disconnected; - Main board relay defective - Heating element defective; - Main board relay defective.
11	1-2-4	1-2-4	Wash Pump Failure	No communication/power between BLDC/BLAC motor and main board, or motor seized.	- Motor connectors disconnected; - Wiring not compliant; - Foreign matter between motor blades; - Motor defective/seized.
12	3-4	3-4	COMMUNICATION error between main board and display	No communication/connection between main board and user interface.	- Fault in Main board/user interface wiring; - Disconnect from electrical power supply. Wait 2 minutes. Reconnect appliance to power supply and test again; - User interface defective.
13	1-3-4	1-3-4	Main board NOT WORKING	Main board NOT WORKING	- Replace main board.
15	1-2-3-4	1-2-3-4	VIRTUAL SENSOR	Reading between Wash pump and Drain pump not consistent.	- Replace wash pump.

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