



Service Information

FWL61452W EU

8599 915 31151

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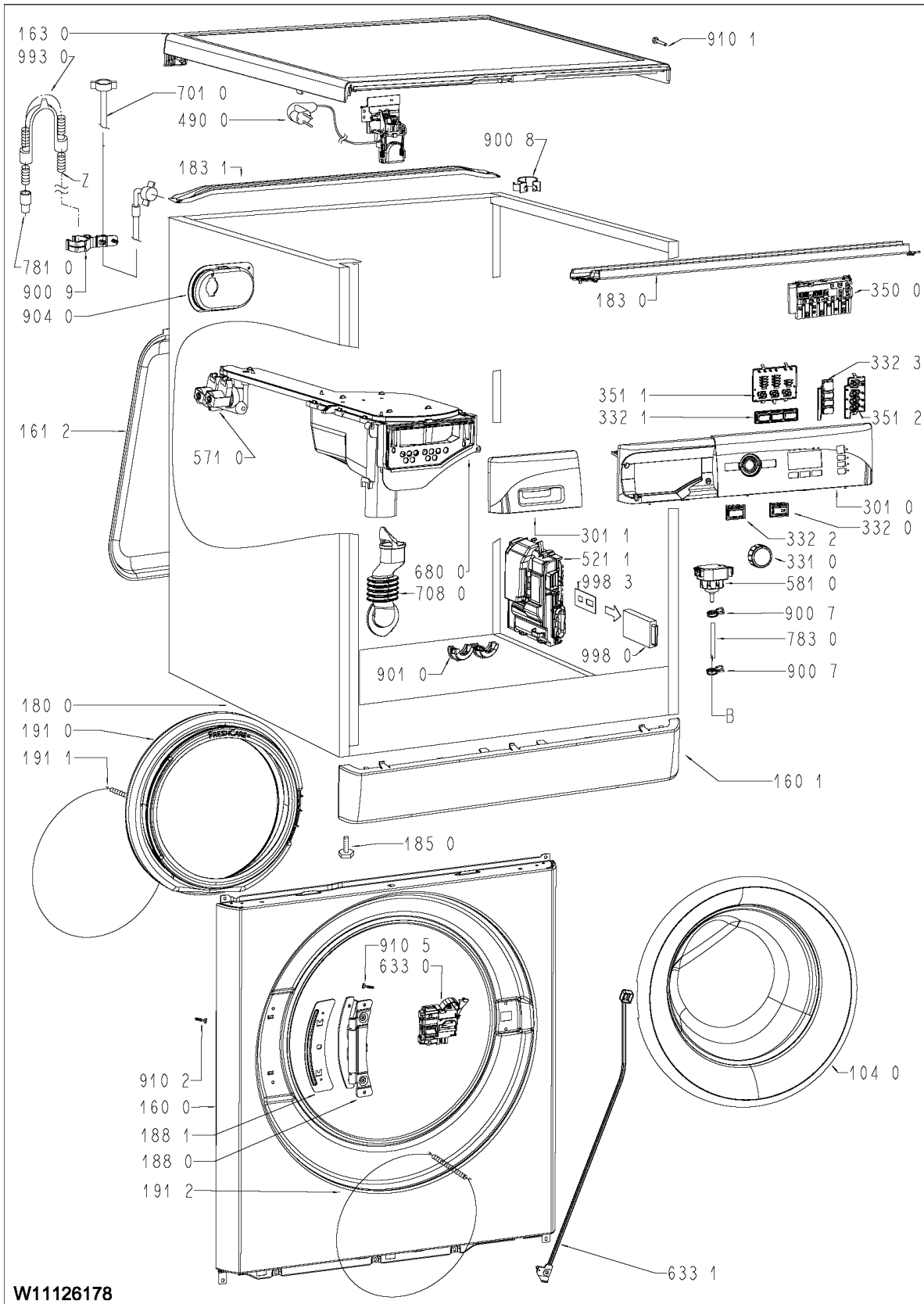
This document is only intended for qualified technicians who are aware of the respective safety regulations.
Subject to modifications

Spare Part List

Pos	12NC	Description
1040	4810 109 06633	Door cpl. Fresh Care
1600	4810 109 11296	Front panel EVO Paint
1601	4810 109 19667	Plinth Global White
1612	4810 105 25745	Cover rear
1630	4810 109 19751	Table top Assy GW 52L
1800	4810 109 10914	Cabinet 454mm EVO 52L Paint
1810	4810 110 15524	Damper CIMA 100N
1811	4810 109 06587	Shock absorber Pin
1820	4810 109 06581	Counter weight 12,5Kg TOP
1821	4810 108 99541	Front Counter weight
1822	4810 111 07483	Screw counterweight
1830	4810 109 00284	Module support EVO Paint
1831	4810 108 46382	Support lid EVO
1850	4812 462 48054	Foot
1880	4810 109 06624	Hinge kit Door
1881	4810 109 14294	Hinge Reinforced
1910	4810 109 47486	Door bellow D340,D354, 68
1911	4810 109 15290	Ring retaining Tub D340 Fresh Care
1912	4810 109 14776	Ring retaining Front D340 FreshCare
2000	4880 005 15807	W.U. ST,1400,52L,MAXI (ND)
2230	4810 109 10929	Drum lifter 62L
2710	4810 109 14783	Belt 1194 J5 HUTCHINSON
2720	4810 109 14772	pulley (D280-20MM)
3010	4810 111 05554	Console WH SYMB LED+ 6KG
3011	4810 109 16823	Handle drawer WH Printed
3310	4810 109 19960	Knob timer assy Fresh Care
3320	4810 109 16819	Button START PAUSE assy
3321	4810 109 06715	Button HORIZ. WH
3322	4810 109 16588	Button WH LED+ ON OFF
3323	4810 109 06716	Button VERT. WH
3500	4810 109 22234	Module UI LED+ cpl.
3511	4810 109 06724	Light guide HORIZ.
3512	4810 109 06722	Light guide VERT.
4000	4810 109 14510	Motor 1400rpm
4300	4810 109 20893	Pump draining Askoll Alum.
4510	4810 109 06688	Heating element 1700W/230V
4900	4810 110 40629	Mains cable SHUKO 1.2M+FILT 3x1 2Poli
5211	4810 110 26441	Control board ACU Windy Strip UM
5710	4810 109 06666	Solenoid 1E2U 7LT 2.5 230V
5810	4810 109 06695	Pressostat
6330	4810 108 85440	Door lock FL EVO EM RAST5 Rold
6331	4810 109 21412	Door lock Lever + screw
6800	4810 109 06391	Soap dispenser cpl. 9Kg Fresh Care
6910	4810 109 06691	Sensor NTC
7010	4810 109 06684	Hose inlet 25#C 10BAR 1,5M
7080	4810 108 70730	Hose Dispenser EVO
7540	4880 005 52942	Drainhose Pump with Eco ball From: 05/19
7540	4810 108 70800	Drainhose Pump Till: 05/19
7810	4810 108 70743	Hose draining L=2050mm
7830	4810 109 20889	Hose Pressostat L=540

Pos	12NC	Description
9001	4810 106 94993	Clamp hose SS 35.6 DIA
9004	4810 106 94992	Clamp hose SS 38.8 DIA
9005	4810 109 06681	Clamp D76,5
9007	4810 109 20887	Clamp hose
9008	4810 109 15867	Clamp hose
9009	4810 105 25749	Clip drain hose, external
9010	4810 109 15865	Clamp hose Drain
9040	4810 109 06709	Adapter valve
9049	4812 466 58023	Silent bloc
9100	4812 505 18427	Nut M6 with washer
9101	4812 502 48344	Screw
9102	4810 109 06628	Screw M4x8 Esag.
9103	4810 109 14773	Screw T40 M8x23(10.9)
9104	4810 111 07480	Screw for Motor
9105	4810 109 06645	Screw D4.5x8 Plast TMT ZN
9300	4810 108 84640	Spring Assy Evo 52L
9930	4810 108 70745	OUTLET ELBOW U Curve
9980	4880 002 72306	SMART READER FOR CARD 8KB 32KB + HOOD
9983	4880 005 09817	CARD FWL61452WEU32KB 400011326149

Exploded View



Technical Data

Dimensions + Weight

Product dimensions	
Height	84,5 cm
Width	59.5 cm
Depth	57,5 cm
Weight	
net	68 kg

Electrical base data

Voltage	220 240 V \pm 10%
Frequency	50 Hz
Fuse	10 A
Power Consumption	~2.3 kW

Drum data

Volume	62 l
Wash speed	50 rpm
Spinning	
max.	1400 rpm

Pressostat

Pressure range	0/300mm H2O
Input power	0 - 500 mm H2O

Door lock

Kind of switch	Electromagnetic doorlock
Nominal voltage	180 - 265) V
Locking time	\leq 0,1 s
Unlock time	< 0,5 s

Inlet valve

Nominal voltage	220 - 240 V / 50 Hz
Rated flow	(1.5 - 5 bar) 7 l/min
Pressure range	0.5 bar - 10 bar
Nominal resistance	(20 °C) 3750 \pm 10% Ω

Drain pump

Nominal voltage	220 - 240 V / 50 Hz
Total power	25 W
Resistor (coil)	290 \pm 8% Ω
Capacity	(0.55 - 1 m) 15 l/min

Heating element

Nominal voltage 230 V +10 %, -15 %
Total power 1700 W
Resistance (20 °C) 29,6 - 32,7 Ω
Leakage current < 0.8 mA
NTC sensor

Resistance NTC

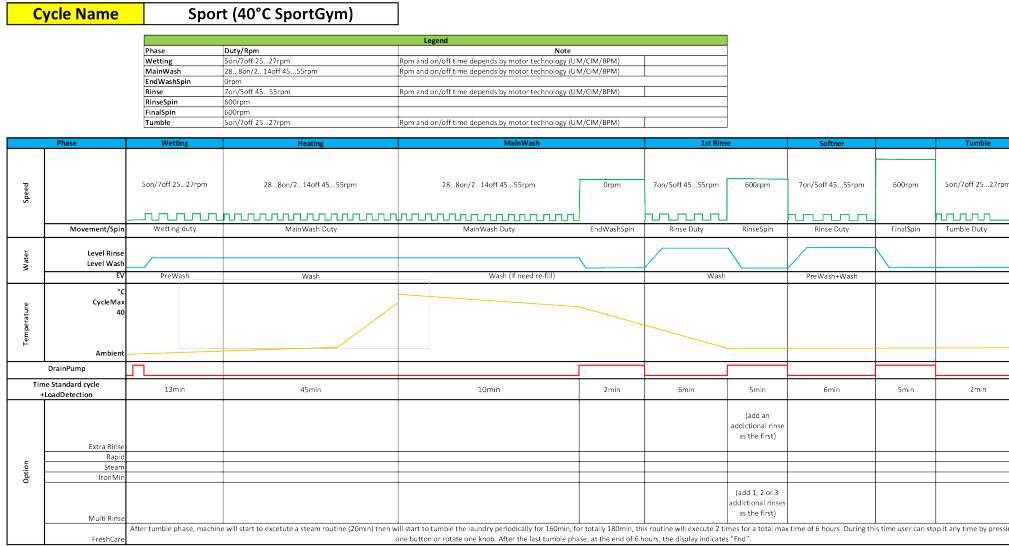
15 °C	31.1	kΩ
30 °C	16.6	kΩ
40 °C	10.7	kΩ
50 °C	7.2	kΩ
60 °C	5.0	kΩ
70 °C	3.5	kΩ
100 °C	1.3	kΩ

Motor

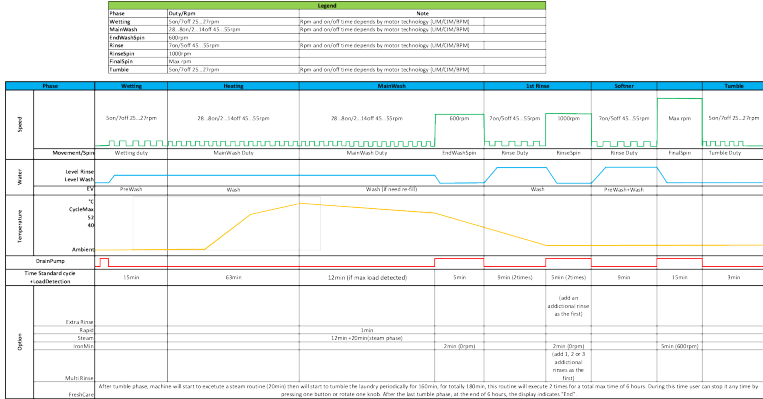
Resistance contacts (20 °C)
Stator 1.58±7% Ω
Tacho generator 66.6±7% Ω

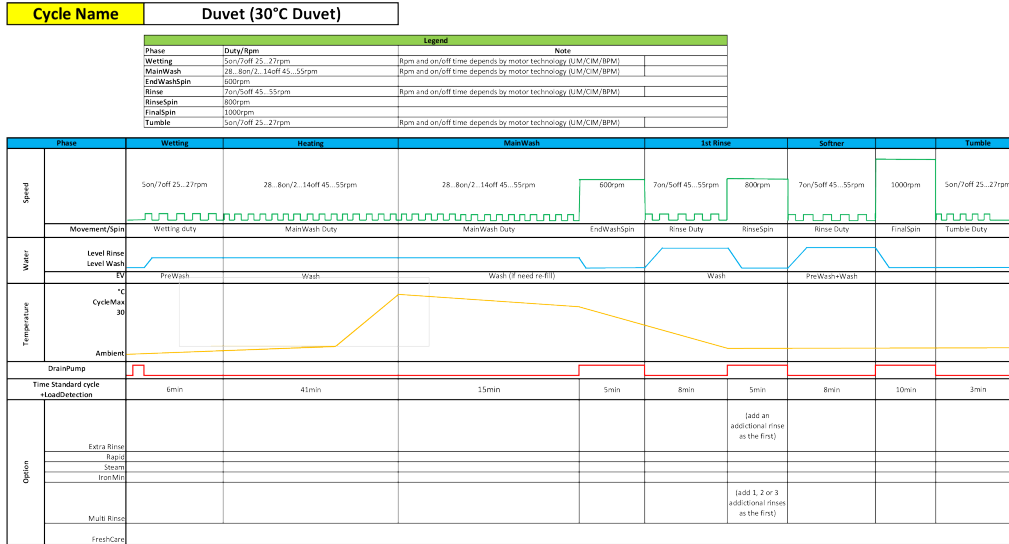
Control unit

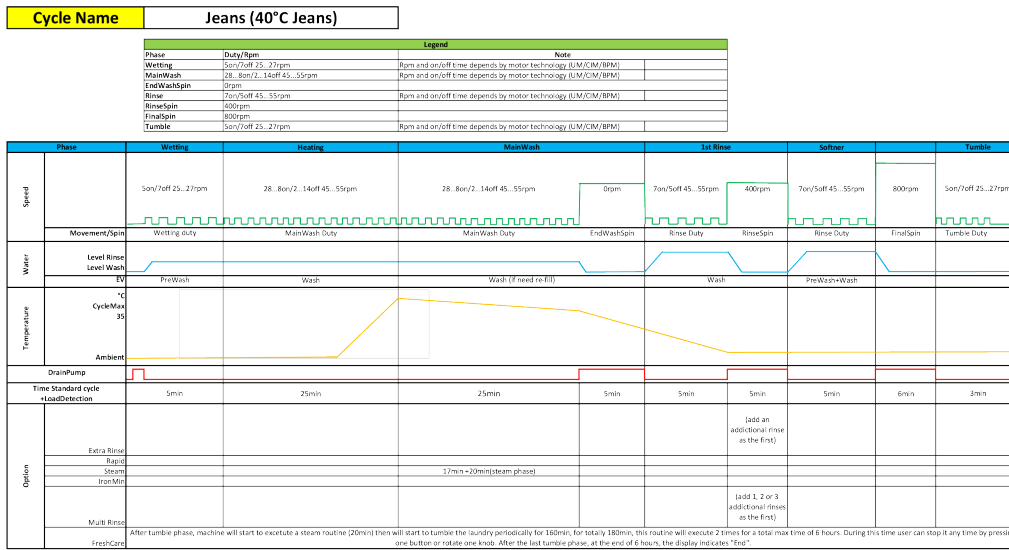
Type Windy/Arcadia
Nominal voltage 220-240 V / 50 Hz

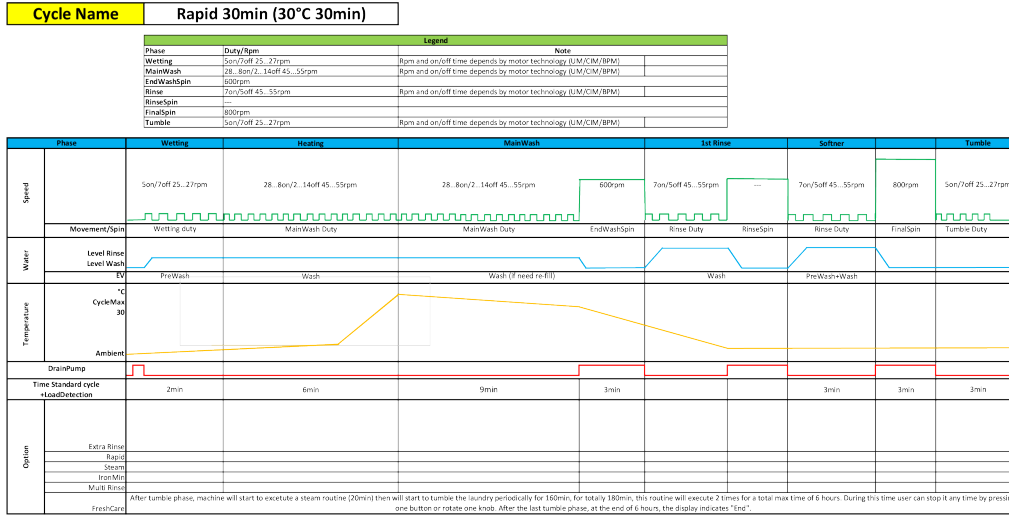


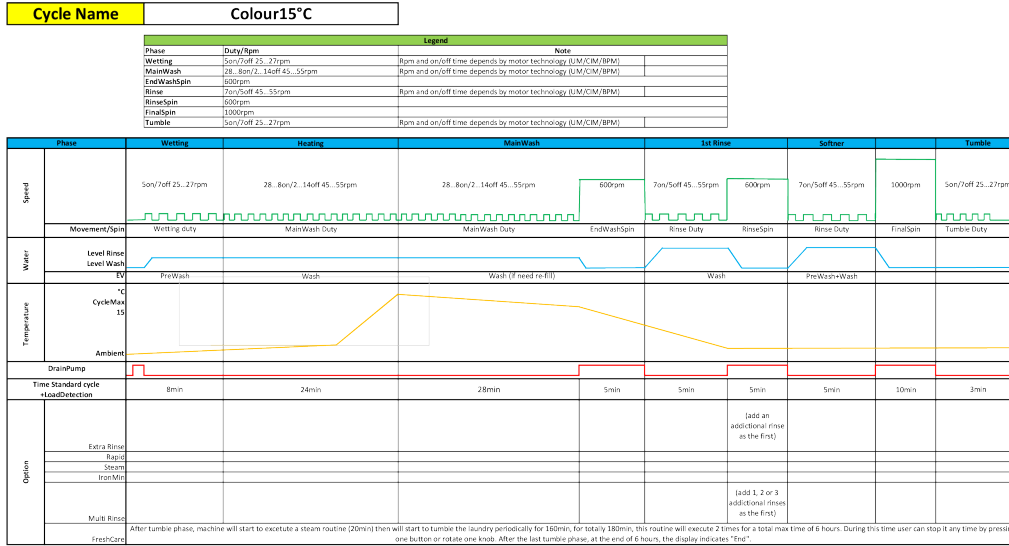
Cycle Name Bed Linen (60°C Bed&Bath)

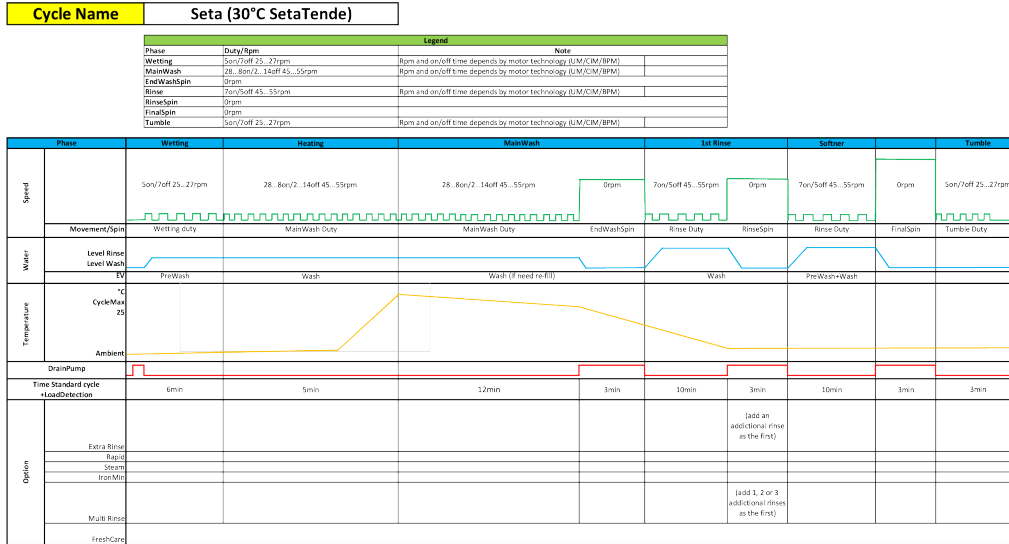






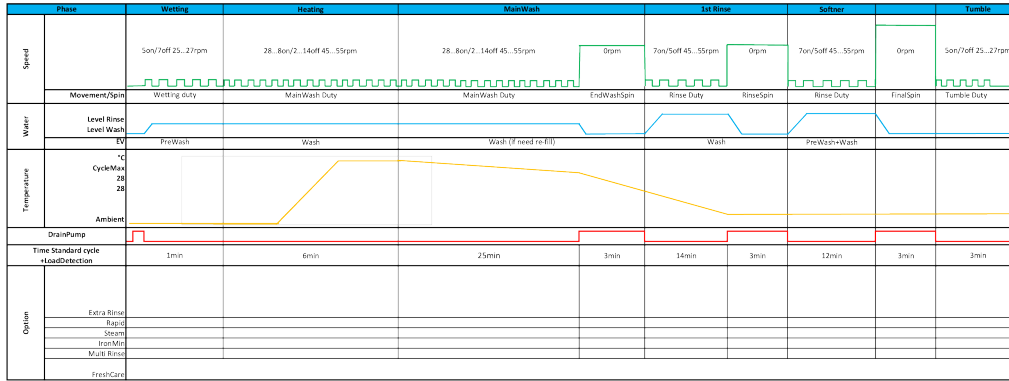






Cycle Name Delicates (30°C UltraDel)


Legend		
Phase	Duty/Spm	Note
Wetling	Spin/Off 25 - 27rpm	Rpm and on/off time depends by motor technology (U/W/CW/BPM)
MainWash	28 - 80r/2 - 14r/ff 45 - 55rpm	Rpm and on/off time depends by motor technology (U/W/CW/BPM)
EndWashSpin	0rpm	
Rinse	70r/5off 45 - 55rpm	Rpm and on/off time depends by motor technology (U/W/CW/BPM)
RinseSpin	0rpm	
FinalSpin	0rpm	
Tumble	Spin/Off 25 - 27rpm	Rpm and on/off time depends by motor technology (U/W/CW/BPM)



Error Codes

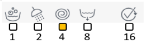
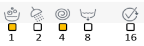



Windy Fault Table

Faults are shown on Human Machine Interface to customer

Fault Visual. HMI LCD/DGT	Fault Visual. HMI LED	Appliance Configuration	Fault Subcode	Involved Component	Electronic Description	Potential Cause	Explanation and Recommended Procedure (To be filled in by Service)
F1		UM	0x01	Motor	Motor driving triac short circuit	UM Motor disconnected, Motor Stuck, Motor bimetal protector open, ACU motor driver circuit failure.	
F1		UM	0x02	Motor	Motor driving triac in diode mode		
F1		UM	0x03	Motor	Motor feedback fault	Harness disconnected, connector loose. Water leakage on motor connector or on ACU. Door Lock not closing/ACU door lock driver circuit open.	
F1		UM	0x04	Motor	Motor relay contacts sticking/ 2 motor relay contact sticking (one open the other one closed)/ door lock triac open		
F1		All	0x12	Heating Element	Wash heating element feedback fault	Washing Heater Open; Harness disconnected, connector loose. ACU Heating Element reading circuit failure.	Check value of 1700W heater, usually $30 \Omega \pm 10\%$
F1		All	0x21	Drain Pump	Drain pump feedback fault	Drain Pump stuck, Drain pump disconnected. Harness Disconnected, connector loose. ACU drain pump driver circuit failure.	Check impedance value of pump, typically $170 \Omega \pm 10\%$
F1		All	0x23	Drain Pump	Drain pump driving triac open		launch autotest after repair
F1		All	0x24	Drain Pump	Drain pump driving triac in diode mode		
F1		WD	0x41	Drying Heater	Triac+dryer heating element relay open	Dryer Heating Element open or disconnected; Harness disconnected, connector loose. ACU Dryer Heating Element driver/feedback circuit failure	Unplug and wait for 2 minutes before doing the checks
F1		WD	0x42	Drying Heater	Dryer heating element feedback fault		launch autotest after repair
F1		WD	0x61	Drying Fan	Drying fan feedback fault	Drying Fan not running, Drying fan coil open, harness disconnected; ACU Drying Fan driver failure	
F1		WD	0x63	Drying Fan	Drying fan driving triac open		
F1		WD	0x64	Drying Fan	Drying fan driving triac short circuit		

F1	BPM	0x81	Motor	Hardware protection trip due to overcurrent on inverter U (probable inverter branch failure)	BPM/CIM motor disconnected; Stator Coil of the motor in short circuit; Motor Harness Disconnected, connector loose; Water leakage on motor connector; ACU Motor Driver or Feedback circuit failure.	
F1	CIM	0x81	Motor	Hardware protection trip due to overcurrent (probable inverter branch failure)		
F1	BPM	0x82	Motor	Hardware protection trip due to overcurrent on inverter V (probable inverter branch failure)		
F1	CIM	0x82	Motor	Incorrect reading of offsets from inverter U		
F1	BPM	0x83	Motor	Hardware protection trip due to overcurrent on inverter W (probable inverter branch failure)		
F1	CIM	0x83	Motor	Incorrect reading of offsets from inverter V		
F1	BPM	0x84	Motor	Incorrect reading of offsets from inverter U (tolerance +- 2.5% at 3.3V)		
F1	CIM	0x84	Motor	Incorrect reading of offsets from inverter W		
F1	BPM	0x85	Motor	Incorrect reading of offsets from inverter V (tolerance +- 2.5% at 3.3V)		
F1	CIM	0x85	Motor	Incorrect reading of reference signal (tolerance +- 10% on 2.5V)		
F1	BPM	0x86	Motor	Incorrect reading of offsets from inverter W		
F1	BPM	0x87	Motor	Hardware protection trip due to Bulk capacity overvoltage. When signal on PIN18 becomes low all PWM outputs are disabled, the fault is declared and IGBTs are set low (zero vector) while the overvoltage persists.		
F1	BPM	0x91	Motor	Hardware protection trip due to overcurrent on inverter U during the initial check of the overvoltage hardware protection circuit.		

F1		BPM	0x92	Motor	Hardware protection trip due to overcurrent on inverter V during the initial check of the overvoltage hardware protection circuit.		
F1		BPM	0x93	Motor	Hardware protection trip due to overcurrent on inverter W during the initial check of the overvoltage hardware protection circuit.		
F2	1 2 4 8 16	UM	0x01	Motor	Motor tripped or not wired/ 1 or 2 motor relays sticking (both open or closed)/ motor tachogenerator open or short circuited	UM Motor tripped or not wired/ 1 or 2 motor relays sticking (both open or closed)/ motor tachogenerator open or short circuited	
F2		UM	0x02	Motor	Too much power to the motor after soft start	Garments stuck in the tub/drum, preventing the correct spinning of the drum.	
F2		CIM/BPM	0x81	Motor	One motor phase disconnected during motor run	BPM/CIM motor disconnected; Stator Coil of the motor in short circuit; Motor Stuck; Excessive friction brake on the Motor; Motor Harness Disconnected; Tachometric Circuit (only for CIM) open or malfunctioning; ACU Motor Driver or Feedback circuit failure	
F2		CIM/BPM	0x82	Motor	Overcurrent on one phase		
F2		CIM/BPM	0x84	Motor	No switching at motor start		
F2		BPM	0x85	Motor	Stall after commutation		
F2		CIM	0x85	Motor	No tachogenerator signal with speed value higher than that of distribution		
F2		CIM	0x86	Motor	One drum revolution not completed in 5 sec		
F2		BPM	0x87	Motor	Motor stop not detected after 32 seconds		
F2		CIM	0x87	Motor	Motor stop not detected after 256 seconds		
F2		CIM	0x88	Motor	High frequency noise on signal		
F2		CIM	0x89	Motor	Low frequency noise on signal		
F2		CIM	0x8A	Motor	Request for PWM driver after an overheating was detected		
F2		CIM	0x8B	Motor	Overheating index greater than "High Temp Threshold"		
F3	1 2 4 8 16	All	0x01	Water Temperature Sensor	NTC washing sensor short circuit	NTC Washing Temperature Sensor disconnected; NTC open circuit; NTC connector loose; NTC short circuited	Check with multimeter impedance at 20°C, should be around 20 kΩ

F3		All	0x02	Water Temperature Sensor	NTC washing sensor open circuit		
F4		All	0x01	Water Leakage	Water leakage detected by the Aquastop switch in the water tray in the bottom of the washer	Water Leaking on the aquastop Tray	
F5		All	0x01	Drain Pump	Pressure switch empty condition not reached (valid for linear and status pressure switch or drain pump jammed (valid for linear and status pressure switch))	Analogue Pressure Switch (APS) disconnected; APS harness connector loose; Drain Pump harness disconnected, or connector loose; Drain Pump coil open; Drain hose clogged; Installation of drain hose incorrect; Drain Hose choked. Drain filter clogged; Wall drain outlet clogged;	After repair check that the water is loaded correctly in following cycle.
F5		All	0x02	Water Pressure Sensor	Analogue Pressure Switch reading out of range	Analogue Pressure Switch (APS) Disconnected; APS harness connector loose; APS faulty	
F5		All	0x03	Water Pressure Sensor	Absence or off high range on frequency reading on Analogue Pressure Switch		
F5		All	0x10	Water Pressure Sensor	Siphon Detection	Drain Hose incorrect installation.	
F6		All	0x01	Door Lock	Door lock fails to close/ PTC door lock triac open/ mains frequency signal fault/ mains power signal fault	Door Lock Failure; Door Lock not fitted correctly to front panel; Door lock connector loose; Harness disconnected; Water leakage on Door Lock; ACU feedback circuit faulty	
F6		All	0x02	Door Lock	Door lock fails to open/ IMP door lock triac short circuit or open circuit		
F8		All	0x01	Heating Element	Wash heating element earth leakage/ wash heating element relay short circuit	Heater leaking to ground; ACU leakage detector faulty.	Check insulation of heater
F8		BPM	0x02	Heating Element	Wash heating element earth leakage		
F9		All	0x01	Setting File	Setting file error detected by Main PCB		unplug, wait for 2 minutes, run autotest. Reprogram the setting file
F9		All	0x02	Setting File	Setting file error detected by User Interface PCB		

F9		BPM	0x81	Setting File	Motor data area has incorrect checksum			
F9		CIM	0x81	Setting File	Motor Safety data area has incorrect checksum			
F9		CIM	0x82	Setting File	Incorrect number of Motor parameters (mismatch in length of data setting file expected by DSP firmware)			
F9		BPM	0x83	Setting File	Motor Application data area has incorrect checksum	Setting File is not present, corrupted or not correctly matched to product configuration.		
F9		CIM	0x83	Setting File	Failure of reading of setting file for 5 times			
F9		BPM	0x91	Setting File	Wrong number of Safety parameters			
F9		BPM	0x92	Setting File	Wrong number of Application parameters (first part of the Application table)			
F9		BPM	0x93	Setting File	Wrong number of Application parameters (first part of the Application table)			
F9		BPM	0xA1	Setting File	Can't read Safety table after 10 attempts			
F9		BPM	0xA2	Setting File	Can't read Application table (first part) after 10 attempts			
F9		BPM	0xA3	Setting File	Can't read Application table (second part) after 10 attempts			
F11		All	0x01	Drain Pump	Pump not connected/ pump driving triac short circuit/ drain pump feedback pin in short circuit with Vdc		Drain Pump stuck; Drain pump disconnected. Harness Disconnected, connector loose. ACU drain pump driver/feedback circuit failure	
F12		All	0x01	Communication	Communication error between power PCB (main) and interface PCB (user interface)		Harness failure; connector loose ACU side or HMI side; ACU communication circuit failure. HMI communication circuit failure	
F13		WD	0x01	Drying Temperature Sensor	NTC dryer sensor short circuit		NTC Drying Temperature Sensor disconnected; NTC open circuit; NTC connector loose; NTC short circuited; Condenser filter clogged; lint/fluff on drying fan paddles;	Check with multimeter impedance at 20°C, should be around 20 kΩ
F13		WD	0x02	Drying Temperature Sensor	NTC dryer sensor open circuit			

F15		WD	0x01	Drying Heater	Triac+dryer heating element short circuit/ dryer heating element ground fault/ dryer heating element open circuit/ dryer heating element feedback pin short with Vdc	Drying Heater Open; Drying Heater short circuit; Harness disconnected, connector loose. ACU Drying Heater Element reading circuit failure.	
F15		WD	0x02	Drying Heater	dryer heating element ground fault	Drying Heater Leaking current to ground	Check insulation of heater
F16		Drum Lock Only	0x01	Drum Lock	Drum lock failure	Drum Lock Failure; Harness connection; connectors loose; ACU circuit failure	
F17		All	see description	Voltage Out Of Range	Any Fault checked out in "out of range" power line voltage conditions is changed into "Fault 17", showing as Subcode the original fault code (e.g.: fault F11.01 becomes F17.11).	Power Supply Voltage out of range	Check wall power socket voltage value
F18		CIM/BPM	0x01	Boards communication problem	No UART communication between DSP and Main PCB	ACU failure	
F18		CIM/BPM	0x02	Boards communication problem	No UART communication between DSP and Main PCB		
F19		WD	0x01	Drying Fan	Fan harness disconnected; driver Triac on ACU in short circuit; ACU relay stuck; ACU Feedback pin in short	Drying fan disconnected; Connectors loose; Drying Fan coil open; ACU driver/feedback circuit fault.	

Windy Warnings Table

Warnings are NOT shown on Human Machine Interface to customer

Warning number	Warning Visual. HMI LCD/DGT	Warning Visual. HMI LED	Appliance Configuration	Warning Subcode	Involved Component	Electronic Description	Potential Cause	Explanation and Recommended Procedure (To be filled in by Service)
1	warning is not shown	warning is not shown	All	0x05	ACU	No zero crossing while the motor is spinning: probable failure to zero crossing.	ACU zero crossing fault failure	
6	warning is not shown	warning is not shown	All	0x02	Door Lock	Door lock not opening / door lock triac short or open circuit	Door Lock; ACU	
7	warning is not shown	warning is not shown	All	0x01	Heating Element	Washing Element not connected (heating timeout)	Heater is disconnected	
7	warning is not shown	warning is not shown	All	0x33	Heating Element	Washing Element not connected (warning triggered by protection number 3.3)		
7	warning is not shown	warning is not shown	All	0x54	Heating Element	Washing Element not connected (warning triggered by protection number 5.04)		
7	warning is not shown	warning is not shown	All	0x55	Heating Element	Washing Element not connected (warning triggered by protection number 5.05)		
7	warning is not shown	warning is not shown	All	0x56	Heating Element	Washing Element not connected (warning triggered by protection number 5.06)		
7	warning is not shown	warning is not shown	All	0x57	Heating Element	Washing Element not connected (warning triggered by protection number 5.07)		
7	warning is not shown	warning is not shown	All	0x58	Heating Element	Washing Element not connected (warning triggered by protection number 5.08)		

7	warning is not shown	warning is not shown	All	0x59	Heating Element	Washing Element not connected (warning triggered by protection number 5.09)	
7	warning is not shown	warning is not shown	All	0x99	Heating Element	Washing Element not connected (warning triggered by safety action that cuts power to all loads)	
14	warning is not shown	warning is not shown	WD Only	0x01	Drying Heating Element	Drying Heating element not connected or Drying NTC out of tolerance causes an exceedingly long "on" time of the heater	Drying Heating element not connected or Drying NTC out of tolerance causes an exceedingly long "on" time of the heater
18	warning is not shown	warning is not shown	External Motor Only	0x01	ACU	MCU and ACU communication error	ACU motor control communication failure
18	warning is not shown	warning is not shown	External Motor Only	0x02	ACU	MCU and ACU data communication corruption	

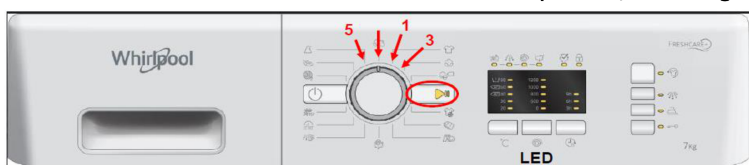
Before Autotest activation:



Initial condition before you activate the Autotest:

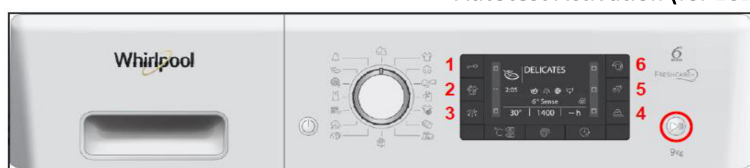
1. Machine empty (without clothes or water)
2. Spin option on position different to zero (not off)
3. Temperature option on position different to zero (not off)
4. Door closed
5. Inlet water must be cold

Autotest Activation (for Led, Small Digit and Big Digit):



To start AUTOTEST procedure, starting with machine in OFF condition and not in «stand by» condition, it is necessary to select the UI to the TOP Position (at 12 o'clock), then:

1. Switch ON the appliance and turn the program selector clockwise by one position
2. Switch OFF the machine and turn the program selector back to the original position
3. Switch ON the appliance and turn the program selector clockwise by two positions
4. Switch OFF the machine and turn the program selector back to the original position
5. Switch ON the appliance and turn the program selector counterclockwise by one position
6. Press «Start» button

Autotest Activation (for LCD):

To start AUTOTEST procedure, starting with machine in OFF condition and not in «stand by» condition, it is necessary to follow the next procedure:

1. Press «button number 1»
2. Press «button number 2»
3. Press «button number 3»
4. Press «button number 4»
5. Press «button number 5»

6. Press and hold at the same time «button number 1 and 6»

7. Press «Start» button

Test cycle flow

Note: instructions in the same point, are performed at the same time.

START

1. Test Drain Pump
 - a. Motor movement 10on/5off 55rpm (clockwise and counterclockwise);
 - b. Activation Drain Pump;
 - c. Maintain Time 18”;

2. Test Ev PreWash
 - a. Motor movement 10on/5off 55rpm (clockwise and counterclockwise);
 - b. Activation Ev PreWash;
 - c. Maintain Time 5”;

3. Test Ev Wash - 5”
 - a. Motor movement 10on/5off 55rpm (clockwise and counterclockwise);
 - b. Activation Ev Wash;
 - c. Maintain Time 5”;

4. Test Ev Soft +Heating
 - a. Step 0
Maintain Time 2”;
 - b. Step 1
Fill 4L Ev Soft;
Motor movement 4on/2off 28rpm (clockwise and counterclockwise);
Maintain Time 24”;
 - c. Step 2
Maintain Time 1”;
 - d. Step 3
Fill 6L Ev Soft;
Motor movement 10on/5off 55rpm (clockwise and counterclockwise);
 - e. Step 4
Fill 1L Ev Hot
Maintain Time 5”;
 - f. Step 5
Activation Washing Heater;
Maintain Time 10”;
5. Test Spin
 - a. execution of spin profile (specific to the machine);
6. Test Drain
 - a. Activation Drain Pump since empty machine;

7. Test Door Lock
 - a. Maintain Time 120"

END

When a Fault is stated, a safety cycle will start. During the safety cycle, the product will not turn off, even if the customer presses the ON/OFF button
After such cycle has finished (duration 5 minutes ca.) the product can be turned off by pressing ON/OFF button and the fault will be reset (will disappear).
Almost every fault executes this safety cycle.
During the safety cycle the product can not be turned off, but if the customer presses the ON/OFF button, such action is stored in the memory of the appliance and when the safety cycle will end, the product will automatically turn off and the fault will be reset (will disappear)

Program timer

..... MEMWRITER industrial code 80200490100 SN 705010001

Service Bulletin**4812 712 40435****AUTHOR**

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Last Update

19/06/19

VERSION

1.1

TITLE

Cables as spare parts for Fresh Care Universal Motor/ led appliances

Technical Failure Code**Cables as spare parts for Fresh Care Universal Motor/ led appliances**

Description	Spare Part Code	12NC Spare Part Code
WIRING FILTER/DOOR LOCK WINDY	C00515816	488000515816
WIRING UNIT INTERFACE WINDY	C00515821	488000515821
WIRING EVP+EVW WINDY	C00515819	488000515819
WIRING MOTOR+ DRAIN PUMP WINDY	C00515817	488000515817
WIRING PRESSURE SENSOR+WASH NTC	C00515820	488000515820
WIRING HEATER WASH WINDY	C00516627	488000516627
WIRING EARTH WINDY	C00515834	488000515834