



Service Information

AWZ 10HP UK

8599 915 45230

Last Modification: 22/09/17

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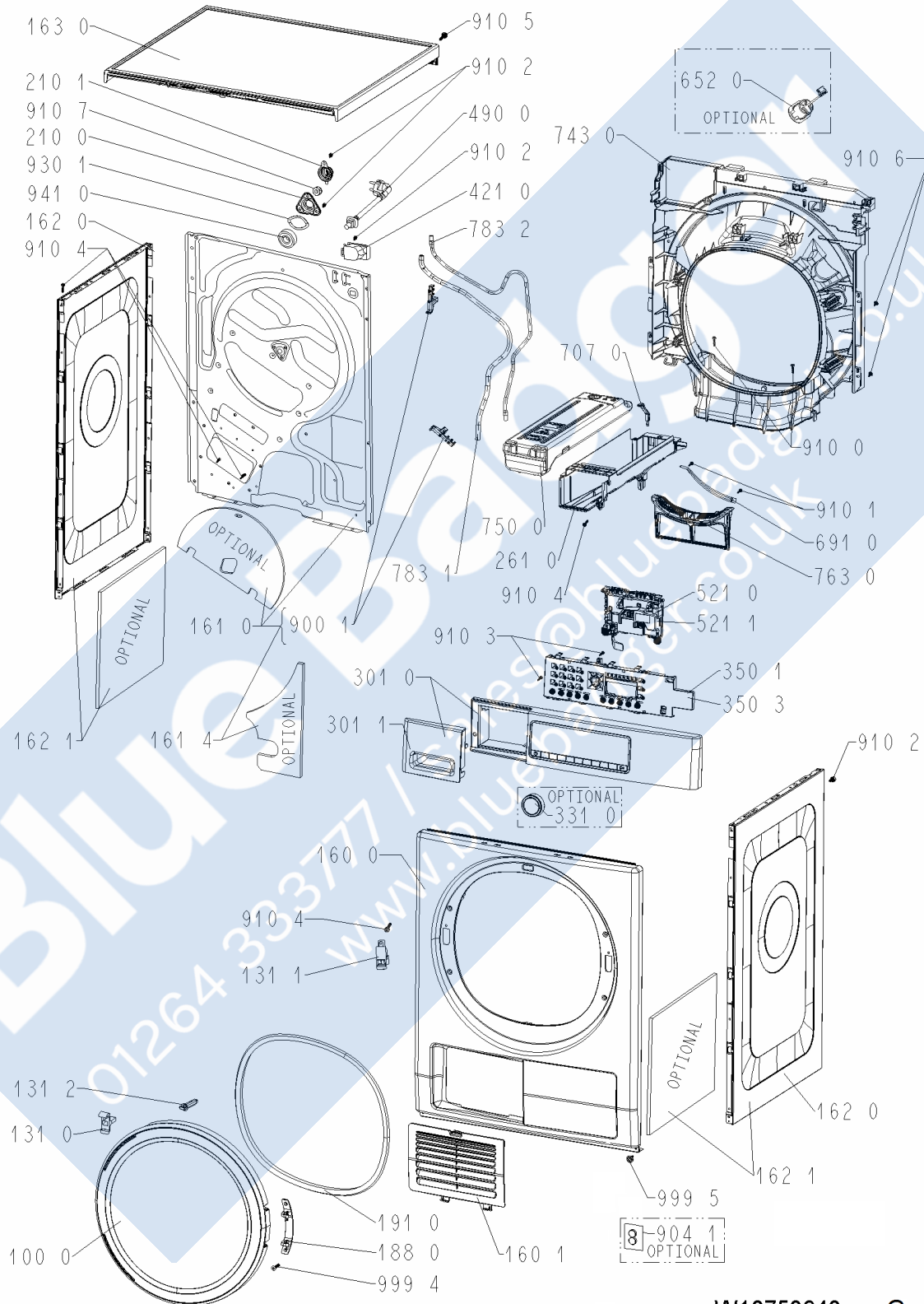
This document is only intended for qualified technicians who are aware of the respective safety regulations.
Subject to modifications

Spare Part List

Pos	12NC	Description
1000	4810 106 15851	Door cpl. MR,14,WP
1310	4801 121 01519	Pin
1311	4810 106 15880	Door lock
1312	4801 121 01518	Pin Start reset
1600	4810 107 49940	Front panel EOLOS
1601	4810 105 90597	Flap
1610	4810 106 61267	Rear panel
1611	4810 107 30860	Heating chamber.
1620	4810 107 83931	Side panel white EOLOS.
1630	4810 107 67676	Table top
1840	4810 107 22431	Bottom A+++ Carc.
1841	4810 107 49921	Cover
1850	4812 500 18054	Foot adjustable
1880	4810 109 11345	Zsaner
1910	4810 107 13648	Gasket door
2030	4810 106 36551	Insulation HP
2100	4801 121 01513	Cover
2101	4801 121 01502	Cover
2110	4810 104 56115	Roller
2200	4810 105 80150	Drum
2230	4810 105 80171	Drum lifter
2610	4810 106 09215	Case
2710	4801 121 01469	belt,driving.
2730	4810 107 00903	Kit pulley motor asm
2732	4810 107 00903	Kit pulley motor asm
2733	4822 505 10547	Nut
2734	4810 107 00903	Kit pulley motor asm
2900	4801 121 01497	Gasket Drum / Rear Panel
2901	4810 106 15879	Gasket Drum/Air guide
3010	4810 111 58425	Control panel + handle drawer
3011	4810 107 77097	Handle drawer chromed + gold
3310	4810 106 91641	Knob timer U1,6TH,14,WP
3501	4810 107 76130	User board UI 1AB progr.
4000	4810 105 98725	Motor BPM Tech Spec
4200	4810 107 43850	Capacitor 10 μ F
4210	4812 121 18276	Interf.filter
4300	4810 103 44760	Pump
4400	4810 107 32919	Fan compressor
4900	4810 107 28622	Connection cable UK.
5210	4810 107 96260	Control unit Fujjin HP, progr.
5211	4810 106 28667	Control unit Fujjin, ACU BPM HP basic
6140	4810 104 11505	Temper. limiter Compr. BSD104
6160	4840 000 08365	Cable harness Kit harness bottom
6910	4801 121 01486	Sensor
6912	4810 106 07765	KIT sensor NTC
7070	4810 106 29345	Pipe
7410	4810 106 45484	Cover blower
7413	4810 106 45481	Fixation Fan wheel
7430	4810 106 15877	Support front air channel
7431	4810 104 25277	Fan wheel PA

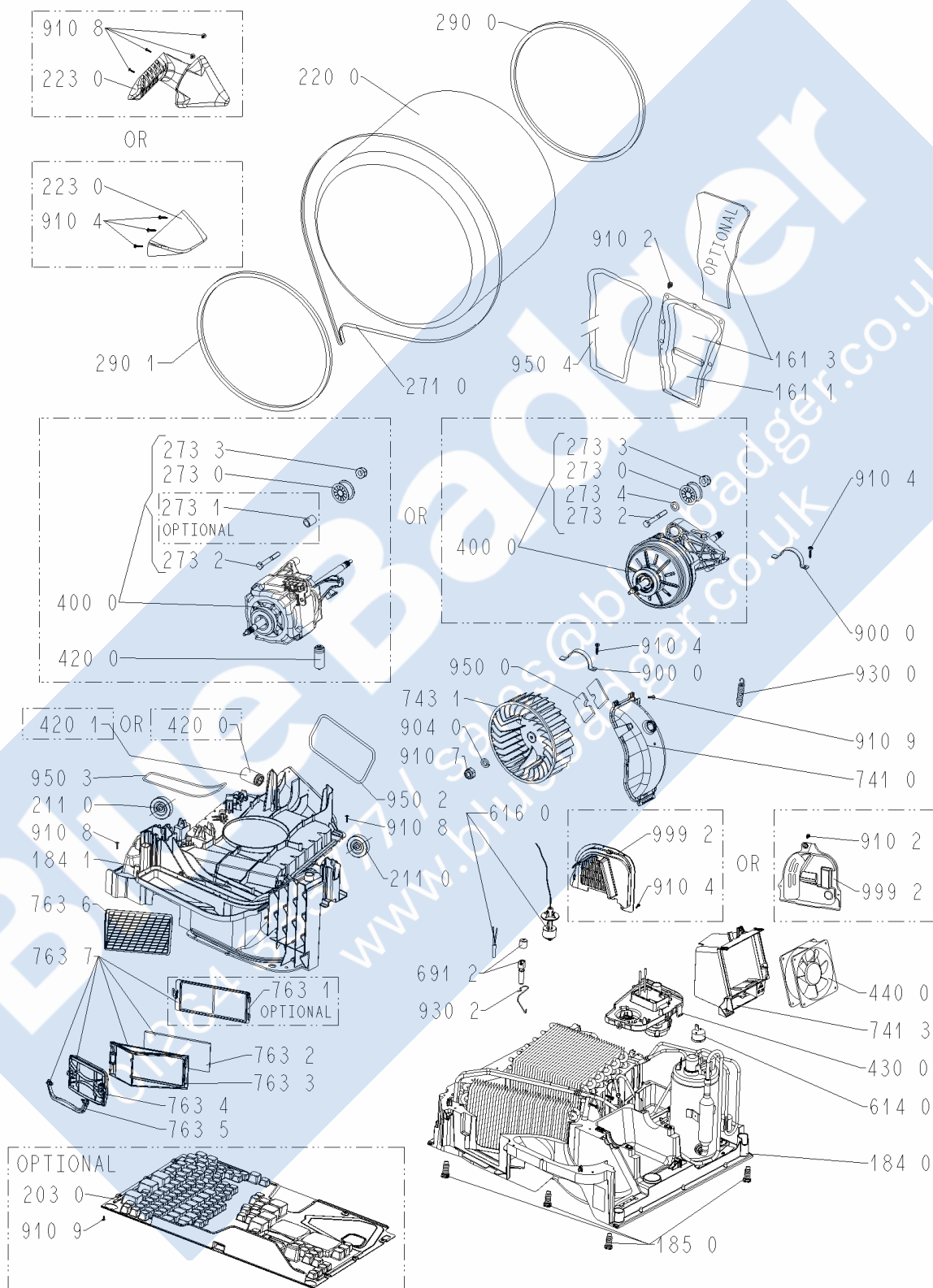
Pos	12NC	Description
7500	4810 105 72507	Tank
7630	4810 106 15876	Filter
7632	4810 103 54755	Frame inner
7633	4810 107 16908	FRAME - HX FILTER, INNER
7634	4810 103 54761	Cover HX Filter, ASM
7635	4810 103 54762	Handle HX Filter
7636	4810 107 17367	Filter
7637	4810 103 45281	Filter HX, cpl. with sieve(spez Nettopre
7831	4801 121 01509	Hose reflow
7832	4801 121 01508	Hose
9000	4801 121 01471	Clamp
9001	4810 105 53524	Hook
9040	4801 121 01631	Washer
9100	4812 502 38151	Screw 4x14
9101	4812 502 48347	Screw,selftap 3,5x14
9102	4801 121 01491	Screw.
9103	4810 213 05003	SCREW CB H C F Z P3.3x12
9104	4812 502 18695	Screw (10 pieces)
9105	4801 121 01528	Screw.
9106	4801 121 01488	Screw
9107	4801 121 01464	Nut M6.
9108	4810 103 06501	Screw
9109	4812 502 38151	Screw 4x14
9300	4801 121 01468	Spring
9301	4801 121 01561	Washer
9302	4810 103 74142	Spring NTC
9410	4801 121 01499	Bearing
9500	4801 121 01463	Felt,strip
9502	4801 121 01472	Gasket
9503	4801 121 01477	Gasket
9504	4801 121 01505	gasket
9992	4810 103 54766	Flap Pump HP
9994	4810 106 58549	Screw 5.0-2.24x25 FL 6L
9995	4810 107 11270	Cap M4-0.7x9.5

Exploded View



W10753943 rev G

Exploded View



W10753943 rev G

Technical Data

Dimensions + Weight

Product dimensions	
Height	85 cm
Width	60 cm
Depth	63 cm
Weight	
net	48 kg

Electrical base data

Voltage	230 V
Frequency	50 Hz
Fuse	10 A
Total connected load	950 W

Surroundings temperature

Room temperature	max.	35 °C
Room temperature	min.	5 °C

Thermostats condenser

Safety thermostat	TL
Switch off temperature	160 °C ± 10 °C
Switch on temperature	70 °C ± 10 °C
Characteristics of the NTC	SET 2

SET2				
0 °C	35.975	kΩ	± 5.8	%
30 °C	9.786	kΩ	± 3.7	%
40 °C	6.653	kΩ	± 3.1	%
50 °C	4.608	kΩ	± 2.6	%
60 °C	3.243	kΩ	± 2.0	%
70 °C	2.332	kΩ	± 2.5	%
95 °C	1.09	kΩ	± 3.7	%

Main- and blower motor

Type	M + MCU
Nominal voltage	Brushless Permanent Magnet (BPM)
Frequency	220 - 240 V
Power Consumption	50/60 Hz
Nominal current	185 W ± 20 %
	1.5 A ± 20 %

Fan motor

Type	FM
Nominal voltage	1-phase asynchronous motor
Frequency	220 - 240 V
Power Consumption	50 Hz
	24 W

Condensation pump

Type	DP
Nominal voltage	1-phase
Frequency	220 - 240 V +10 % / -15 %
Resistance	50 Hz $\pm$ 0.5 %
Power Consumption	(20°C) 716 Ω $\pm$ 10 %
Capacity (height 1.1m)	7.5 $\pm$ 3 W
	2.3 l/min

Reed contacts

Water Level

Nominal voltage	SLE
Current	5 V
	0.5 mA

Heat exchanger

Nominal voltage	SHX
Current	5 V
	0.5 mA

Door switch

Nominal voltage	SD
Current	5 V
	50 mA

Drum light - optional

Nominal voltage	LC
Power	2.9 - 5 V
Current	0.5 W
	45 - 160 mA

Control unit central

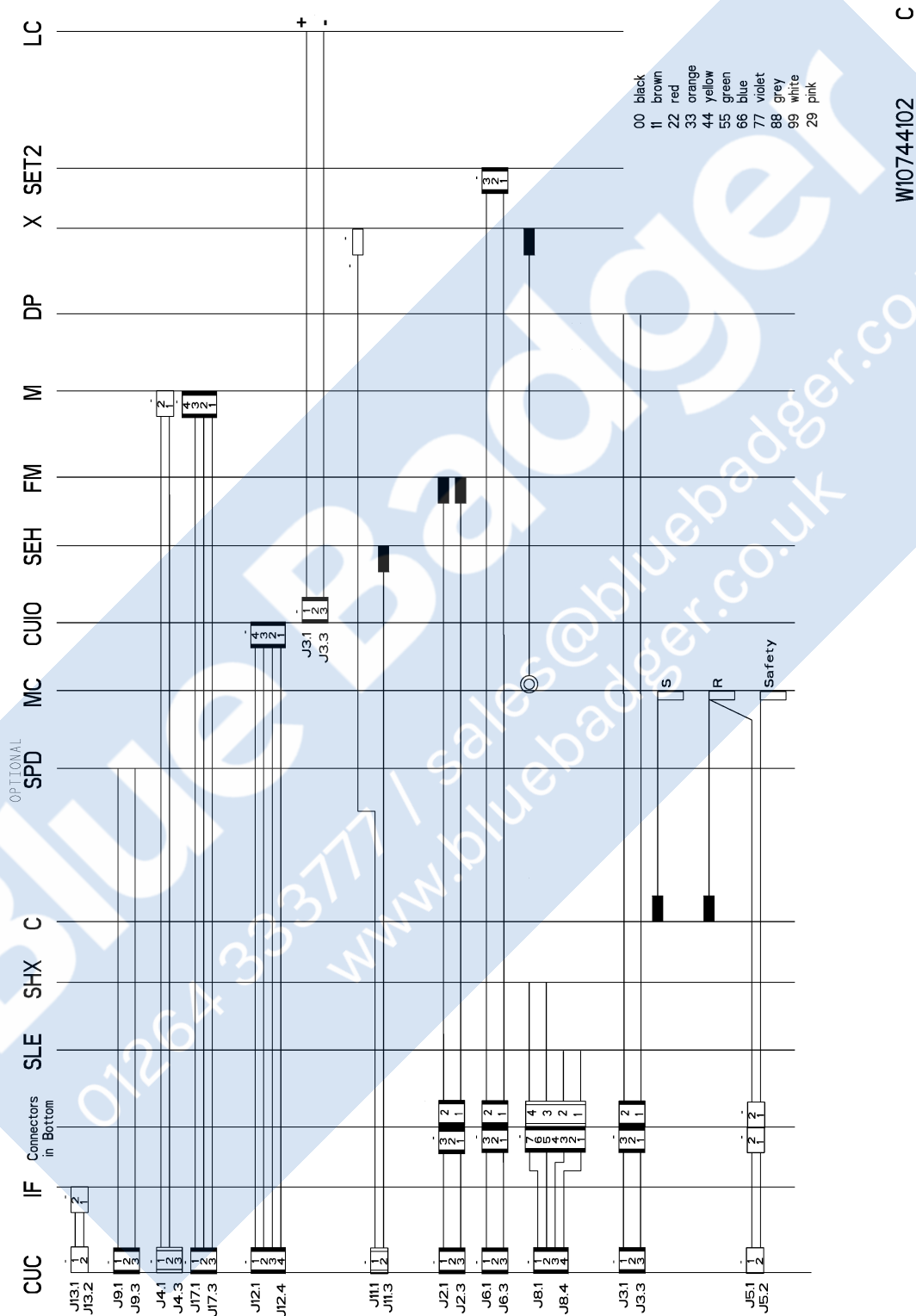
Type	CUC
Nominal voltage	Fujin
Frequency	220 - 240 V
	50/60 Hz

Control unit display

.....		CUIO
Nominal voltage	5 V $\pm$ 0.5 V	
Current	max. 350 mA	
Nominal voltage	12 V	
Current	max. 20 mA	

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www.bluebadger.co.uk

Wiring Diagram

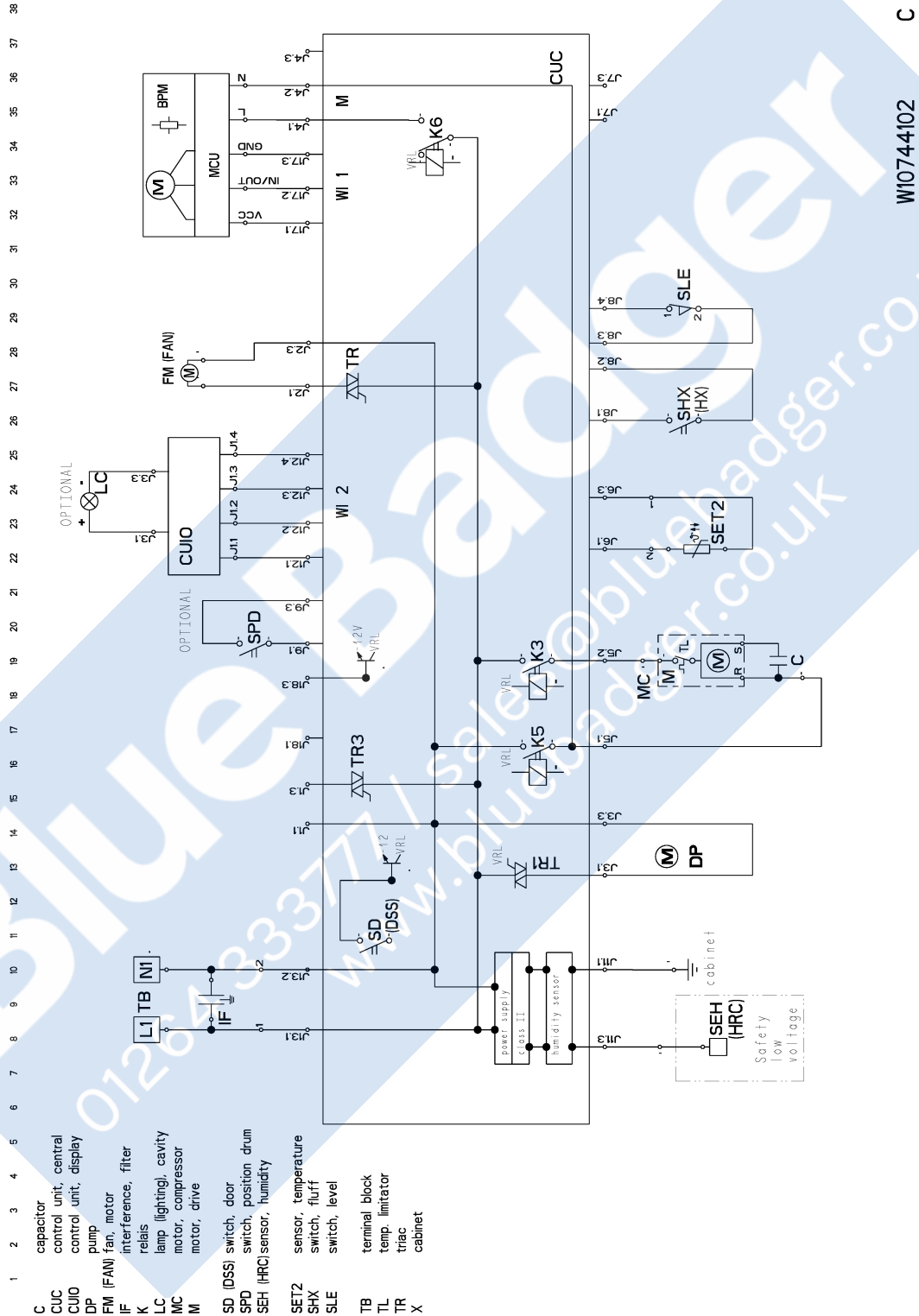


Legend

00	black
11	brown
22	red
29	pink
33	orange
44	yellow
55	green
66	blue
77	violet
88	grey
99	white

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Circuit Diagram



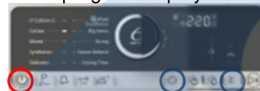
Legend

C	capacitor
CUC	control unit, central
CUIO	control unit, display
DP	pump
FM (FAN)	fan, motor
IF	interference filter
K	relais
LC	lamp (lighting), cavity
M	motor, drive
MC	motor, compressor
SD (DSS)	switch, door
SPD	switch, position drum
SEH (HRC)	sensor, humidity
SET2	sensor, temperature
SHX (HX)	switch, fluff
SLE	switch, level
TB	terminal block
TL	temp. limitator
TR	triac
X	cabinet

Testprogram

EOLOS HP VBL

1. Close the door or close the door switch.
2. Switch ON the appliance and wait until the start procedure has been finished.
3. Within 1 minute press and hold the button on the right side of the program display at the same time the most left and



the button before last until "FC" or "SC" appear on display.

4. Choose "SC" (service test program) with the program selector and confirm with the start button.
5. Press the start button to reach the next test step.
6. How to leave the test program
 - Switch OFF the appliance
 - or
 - Open door
 - or
 - Last step of test program is reached and START button is pushed

Display	Description of the Program Flow	Test/Tested Component
S:01	Display and button test HX filter position test, Drum Light function via corresponding button	Buttons, LED's, Drum Light, Reed Sensor HX filter positioning
S:02	Motor is turning clockwise (CW)	Motor
S:03	Motor is turning counter clockwise (CCW) Pump is running	Motor, Pump
S:04	Humidity test Pump and Float Switch Test is running, after water container is drawn out fill water into container housing the pump and floaters function is tested	Humidity Sensor, Float Reed Switch
S:05	Compressor Test	Compressor
S:06	Fan is running	Fan
S:07	Last failure which has been detected is displayed	
EXIT	Leave the test mode	

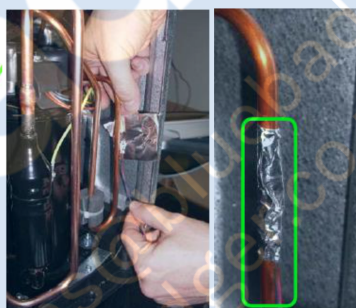
EOLOS HP VBL

Instruction for compressor test in step S:05

1. Remove the table top and the right side panel.
2. Verify the environment temperature.



3. Fix a temperature probe with aluminium tape to the marked (arrow) pipe.



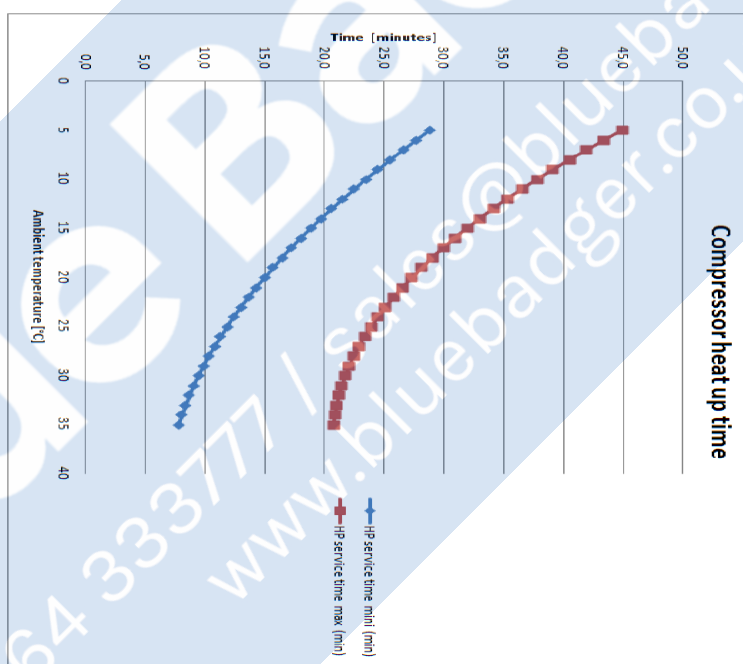
4. Run step 5 from service test program.
Monitor the increasing of temperature on the thermometer in the fixed time on the datasheet (see next page).

EOLOS HP VBL

S:05 Temperature increase dependent on time

(valid for A-40, A-50, A+, A++, A+++)

Ambient temperature (°C)	HP service time mini (min)	HP service time max (min)	Delta
5	28,9	45,0	16,1
6	27,8	43,4	15,7
7	26,7	42,0	15,3
8	25,6	40,6	15,0
9	24,5	39,2	14,6
10	23,5	37,9	14,3
11	22,6	36,6	14,0
12	21,6	35,4	13,8
13	20,7	34,2	13,5
14	19,8	33,1	13,3
15	18,9	32,0	13,1
16	18,1	31,0	12,9
17	17,3	30,0	12,7
18	16,5	29,1	12,6
19	15,8	28,2	12,4
20	15,0	27,4	12,3
21	14,4	26,6	12,2
22	13,7	25,8	12,1
23	13,1	25,2	12,1
24	12,5	24,5	12,1
25	11,9	24,0	12,0
26	11,4	23,4	12,0
27	10,9	22,9	12,1
28	10,4	22,5	12,1
29	9,9	22,1	12,2
30	9,5	21,8	12,3
31	9,1	21,5	12,4
32	8,8	21,2	12,5
33	8,4	21,1	12,6
34	8,1	20,9	12,8
35	7,9	20,8	13,0



Cut-off temperature compressor (max. achievable temp. in Service Test):

A+ : Standard Lifter 70 °C; Air Care Lifter 73 °C

A++ : Standard Lifter 70 °C; Air Care Lifter 73 °C

A+++ : Standard Lifter 65 °C; Air Care Lifter 65 °C

Error Codes

EOLOS HP VBL

Name	7-seg. code	LEDs failure code	Recommended actions
Main relay or heating element	F01		Check heating element and heating element wiring. If fluff is accumulated clean heating element and remove humidity. If problem is still present then change the ACU.
Data corruption	F02		Apply service reset procedure (see below). If not solving the issue then reprogram the ACU with the eSAM. If issue is still not solved, replace the ACU.
Humidity sensing system	F03		Check wiring of humidity sensing circuit. If problem still present then change the ACU.
Heater relay or heating element	F04		Check heating element limiter. Clean fluff on HE & remove humidity. Apply reset procedure. If issue is still present then change the ACU.
Air channel NTC (SET 1)	F05		Check NTC resistance, check wiring, check if NTC is connected. Clean fluff and humidity around NTC.
Heater NTC (SET 2)	F06		Check NTC resistance, check wiring, check if NTC is connected. Clean fluff and humidity around NTC.
Drum rotation detection	F07		Check if belt is not broken, check if drum can be turned by hand without excessive force. Check if motor is connected and working properly in both directions (apply Service Test Program, see above). On appliances with broken belt sensor a reed switch malfunction or missing magnet can cause F07. On air vented appliances detection is done with humidity stripes so check wiring otherwise replace ACU.
Communication failure ACU – MCU (BPM motor only)	F10	--	Check connection between ACU and MCU. Signal is 3-pole cable and power is 2-pole cable. Apply service reset procedure (see below).
MCU failure (only for BPM motors) or BPM motor failure (BPM motor only)	F11 to F19	--	Switch off/on the appliance. Check wiring from ACU to motor. Apply service reset procedure.
Motor over-temperature (BPM motor only)	F20	--	Check for any source of over-temperature : high friction of drum, overloaded drum, damaged drum seals.
UI Communication Error	F21	--	Check cable between ACU and display module.
Motor over-current	F22	--	Check for any source of over-current : blocked drum, damaged drive system, overloaded drum.
Compressor defect (heat pump only)	F23	--	Perform temperature check with service test procedure.
Fan defect (heat pump only)	F24	--	Check if fan rotor is not blocked by dust or foreign object. Check ACU to fan wiring. If everything is ok then replace the fan.
No communication with WIFI module	F33	--	Check WIFI setup, switch on WIFI module.
No communication with ACU	F70	--	Check cable between ACU and display module.
Touch button failure	F73	--	Check mechanical assembly of UI or change UI.
Requested dryness level not supported	F98	--	Reprogram ACU.
Cycle ID not available at ACU	F99	--	Reprogram ACU.

Reset procedure:

Appliance is switched ON. Press and hold the ON/OFF button for 3 seconds.

Service Bulletin 4812 713 40361

AUTHOR: Michael Näther

Last Update: 23/01/15

VERSION: 1.0

TITLE: Drum roller, Cover

SUBJECT: Drum roller out of place, roller out of support. Support breaks.

Under certain circumstances the drum roller at the right site can jump out of the support at the heat pump base cover.

(see picture below)

Affected appliances: Heat pump produced later than W46/2012

REMEDIAL ACTION

As an interim solution the following can be provided:

Replace the cover and both drum rollers.

Order cover and rollers from the spare part center.

Unpack parts when delivered and insert both rollers into the support. Push them down so that rollers fully snapped in. If you replace the cover, make sure all sealings around the cover are in place properly after the repair!

There is no need for entire bottom unit replacement.

Start a program cycle (with wet laundry) for verifying the proper operation of the unit.

Technical Failure Code



161 2110 Dx A



F2S Number

F2S000820

Service Bulletin 4812 713 40332

AUTHOR: Kay Augustin

Last Update: 23/05/18

VERSION: 1.1

TITLE: How to replace the belt

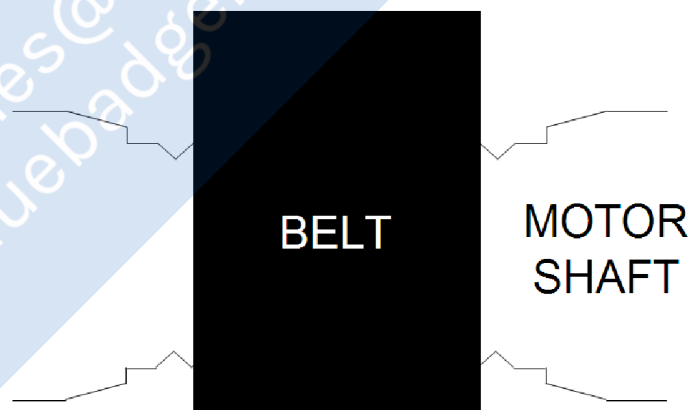
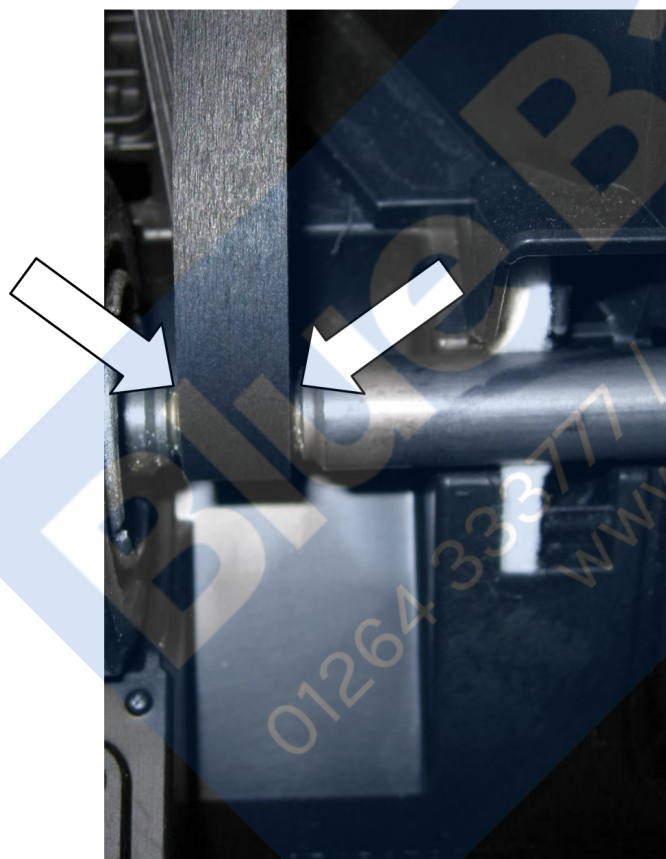
SUBJECT: Correct position of the belt on motor pulley

REMEDIAL ACTION

In order to avoid that the belt will be damaged, it is strongly requested to set the belt in the right position on the motor pulley.

The normal setting is to place the belt on the **middle** of the 9 grooves of motor pulley as shown on the picture below.

Important: Turn the drum three times in CW and three times CCW direction and check again the correct position of the belt!



Service Bulletin 4812 713 40364

AUTHOR: Kay Augustin

Last Update: 12/09/16

VERSION: 1.0

TITLE: Service Test Program Zephyr platform

SUBJECT: Check heating phase of the compressor

REMEDIAL ACTION

If customer claim a bad drying result or bad performance of the heat pump dryer always execute the service test program. In step S:05 the compressor will be tested in 2 steps. Refer to the section test program in the Service Information with respect to the different temperatures which should be reached for A+, A++ and A+++, see also graph here below.

Short: After 2 minutes the buzzer give a sound for 30 sec. = okay; F23 = fails

Long: Stop the time how long it's take to reach the max. operating temperature, see table below.

For the test respect the environment temperature. If the dryer is placed in a cold environment it will take much more time to reach the max. operating temperature.

Additional explain the customer the specific behaviour of the heat pump dryer:

- The dryer has a low operating temperature
- Dryer don't heat up the room
- After program end the laundry can be perceived still wet because of the low temperature
- Has the correct drying programme been selected?
- Has the cycle been interrupted (door opening, full water container)?
- Was the inserted laundry too wet (washing machine spin speed less than 1000 rpm)?
- Is the lint filter dirty (filter indicator light on)?
- Is the heat exchanger dirty (for more information, refer to the Instructions for use)?
- Is the room temperature too high?
- Is the "End" and "Anticrease" indicator lamp lighting up?

The drying cycle is complete and the laundry can be taken out.

- If the drying result does not meet your expectation, select a more dry programme or use the dryness adjustment option (if available) to optimize the drying result

Technical Failure Code

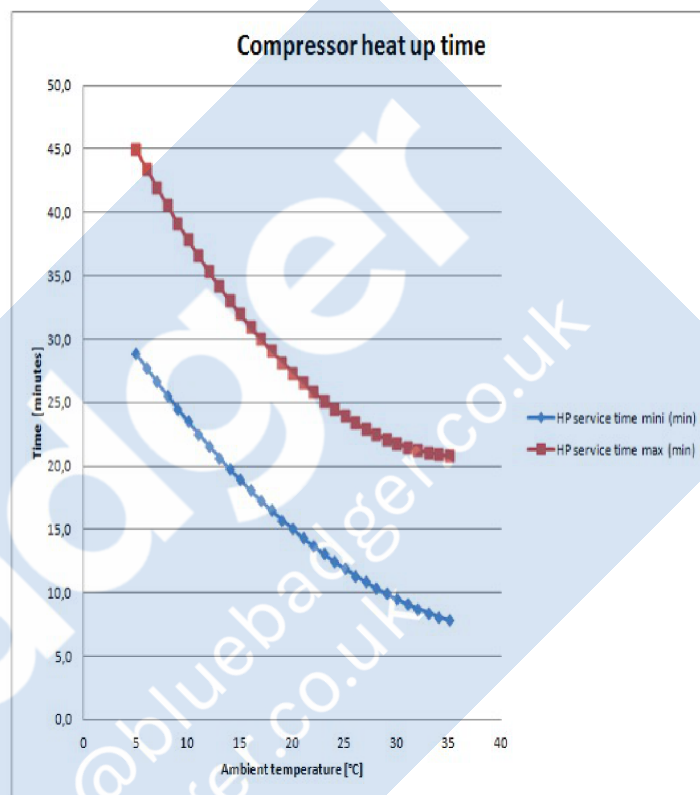


A23 1840 9x U

S:05 Temperature increase dependent on time

(valid for A-40, A-50, A+, A++, A+++)

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9	24,5	39,2	14,6
10	23,5	37,9	14,3
11	22,6	36,6	14,0
12	21,6	35,4	13,8
13	20,7	34,2	13,5
14	19,8	33,1	13,3
15	18,9	32,0	13,1
16	18,1	31,0	12,9
17	17,3	30,0	12,7
18	16,5	29,1	12,6
19	15,8	28,2	12,4
20	15,0	27,4	12,3
21	14,4	26,6	12,2
22	13,7	25,8	12,1
23	13,1	25,2	12,1
24	12,5	24,5	12,1
25	11,9	24,0	12,0
26	11,4	23,4	12,0
27	10,9	22,9	12,1
28	10,4	22,5	12,1
29	9,9	22,1	12,2
30	9,5	21,8	12,3
31	9,1	21,5	12,4
32	8,8	21,2	12,5
33	8,4	21,1	12,6
34	8,1	20,9	12,8
35	7,9	20,8	13,0



Cut-off temperature compressor (max. achievable temp. in Service Test):

A+ : Standard Lifter 70°C; Air Care Lifter 73°C

A++ : Standard Lifter 70°C; Air Care Lifter 73°C

A+++ : Standard Lifter 65°C; Air Care Lifter 65°C

Service Bulletin

4812 713 40374

AUTHOR Cecilia Palazzi
Last Update 15/02/18
VERSION 1.0
TITLE Fan works, even if the appliance is off
Technical Failure Code

Even when the appliance is turned off, the fan works (clicking noise)

Appliance is plugged in the socket, but it is turned off.

But the fan nevertheless keeps working, making a clicking noise.

It is the effect of a procedure in place on the Supreme Care heat pump dryer main board (Fuujin electronic platform).

Please, replace the main board to fix the issue.

The new main board is showing the following code on the label:

new:

> **W10628667.E** (old: W10628667.C)

> **W10628665.E** (old: W10628665.C)



SPC stock has been amended.

- DRAFT! – DRAFT! – DRAFT! – DRAFT! – DRAFT! -

Service Bulletin 4812 713 40373**AUTHOR:** Cecilia Palazzi**Last Update:** 04/12/17**VERSION:** 1.0**TITLE:****SUBJECT:****REMEDIAL ACTION****Technical Failure Code****F2S Number**

- DRAFT! – DRAFT! – DRAFT! – DRAFT! – DRAFT! -

Service Bulletin 4812 713 40342**AUTHOR:** Kay Augustin**Last Update:** 23/05/18**VERSION:** 1.0**TITLE:** Indication to clean heat exchanger filter**SUBJECT:** Cycle counter for indication to clean the heat exchanger filter**REMEDIAL ACTION**

Service Bulletin 4812 713 40349**AUTHOR:** Kay Augustin**Last Update:** 23/05/18**VERSION:** 1.0**TITLE:** Interference between Blower Wheel and Housing**SUBJECT:** Due to small variations on the execution of bottom base and motor blower it is possible to have a mechanical interference between the blower wheel and cover base.**REMEDIAL ACTION**

Spare part code 481010560208

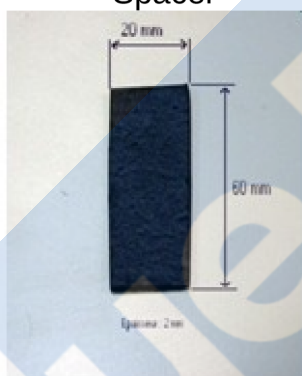
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In case of interference which can create a scraping noise, check the gap between blower wheel and cover base on top right side. If the blower is touching or if the gap is below 1mm the product needs to be reworked as follow:



Remove the motor and add the Spacer 481010560208 to the base under the right motor silent block.

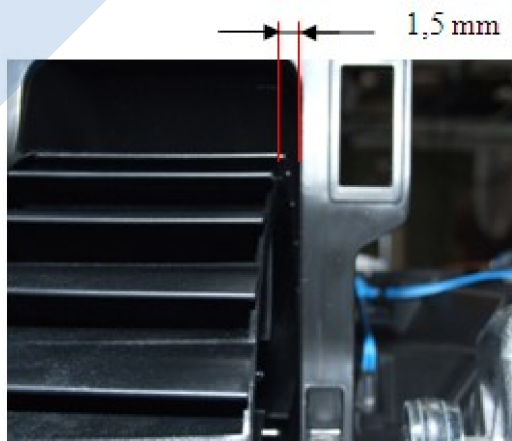
Spacer



Area where to place the spacer



Reassemble the motor and check the gap between blower wheel and cover base (> 1,5mm). Reassemble the dryer and check for the scraping noise.



Technical Failure Code



140 7431 J3 B

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