IGNIS

Service Information

Dryer Condensation

AZI 7000

8540 700 38010
Last Modification: 23/12/11
Creation Date: 19/01/11

Spare Part List 2

Exploded View 4

Technical Data 6

Wiring Diagram 9

Circuit Diagram 11

Testprogram 13

Error Codes 14

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

© Whirlpool EMEA

Spare Part List

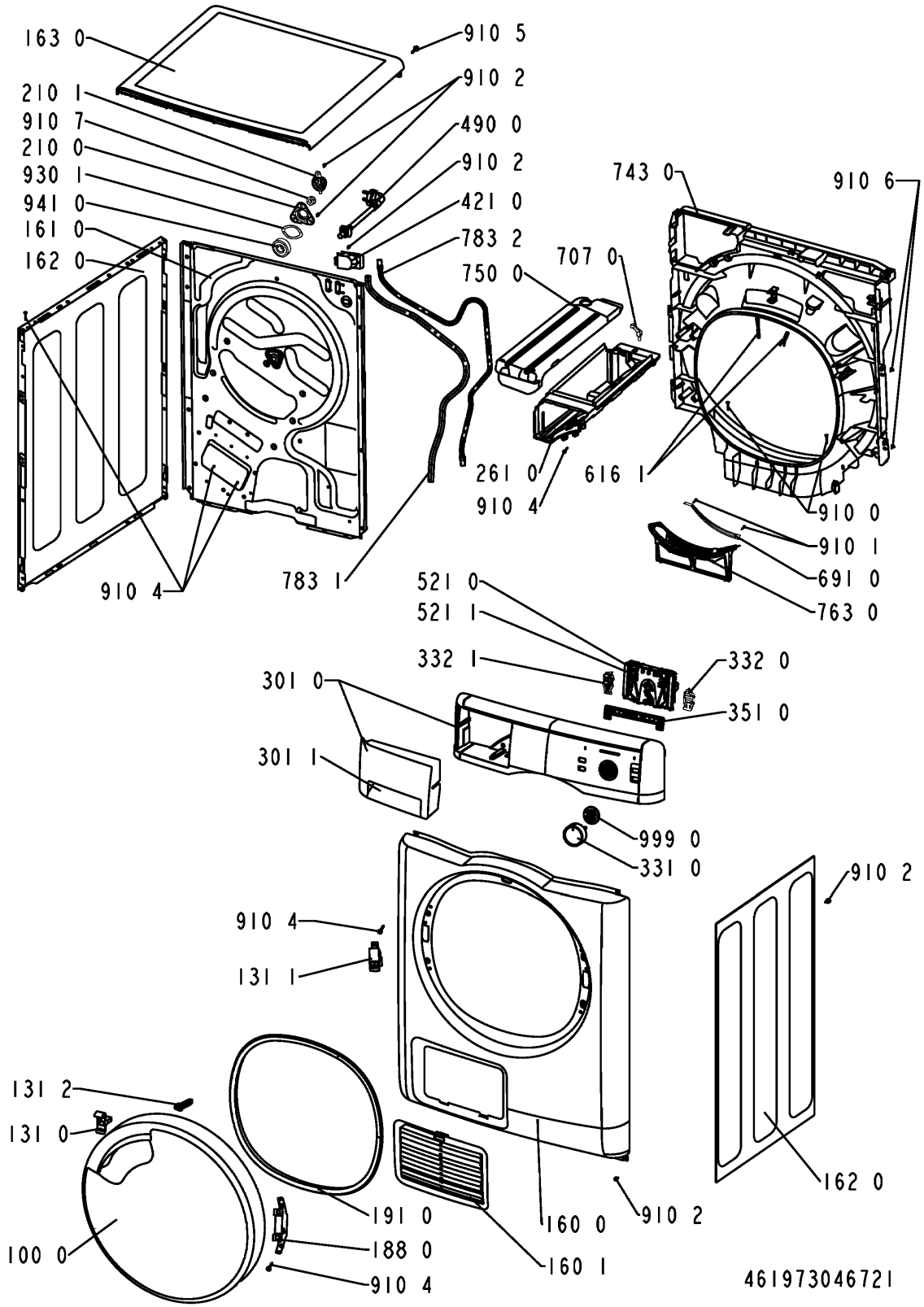
Pos	12NC	Description
1000	**4801 121 01565**	Door
1310	**4801 121 01519**	Pin
1311	**4801 121 01507**	Door lock
1312	**4801 121 01518**	Pin Start reset
1600	**4801 121 01487**	Panel front.
1601	**4801 121 01529**	Flap
1610	**4810 103 74102**	Rear panel **From: 37/11**
1610	**4801 121 01496**	Rear panel **Till: 36/11**
1611	**4801 121 01504**	Heating chamber **Till: 36/11**
1611	**4810 103 74101**	Heating chamber **From: 37/11**
1612	**4801 121 01558**	Cover
1620	**4801 121 01515**	Side panel
1630	**4801 121 01543**	Table top
1840	**4801 121 01555**	Bottom
1850	**4812 500 18054**	Foot adjustable
1880	**4801 121 01521**	Hinge
1910	**4801 121 01512**	Gasket door
2100	**4801 121 01513**	Cover
2101	**4801 121 01502**	Cover
2110	**4801 121 01478**	Roller Drum
2200	**4801 121 01581**	Drum
2230	**4801 121 01495**	Drum lifter
2610	**4801 121 01557**	Case.
2710	**4801 121 01469**	belt,driving.
2730	**4801 121 01592**	Pulley jokey
2900	**4801 121 01497**	Gasket Drum / Rear Panel
2901	**4801 121 01685**	Gasket Drum/Air guide
3010	**4810 103 85467**	Control panel + HANDLE DRAWER
3011	**4810 103 85587**	Handle drawer
3310	**4810 714 25591**	Knob
3320	**4801 111 02172**	Button assy Start/Reset
3321	**4801 111 02238**	Button option
3510	**4801 121 01547**	Guide,light LR BK08
4000	**4801 121 01549**	Motor PSC CPI 2/55-132/IRA-F18
4200	**4801 121 01551**	Capacitor 11#F
4210	**4812 121 18284**	Interf.filter
4300	**4801 121 01635**	Pump
4560	**4801 121 01545**	Heating element 2000 W, 230 V **Till: 36/11**
4560	**4810 103 76364**	Heating element 2000 W, 230 V **From: 37/11**
4900	**4801 121 01501**	Connect.cable + Strain relief
5210	**4810 730 46381**	Control unit TINY/DOMINO programmed
5211	**4801 121 01535**	Control unit TINY/DOMINO Basic
6160	**4801 121 01476**	Sensor reed + water level sensor
6161	**4801 121 01485**	Sensor reed door + BBD
6910	**4801 121 01486**	Sensor
6911	**4812 282 19485**	Sensor NTC
7070	**4801 121 01562**	Pipe
7400	**4801 121 01516**	kondenzator (Hhocserelo)
7410	**4801 121 01474**	Cover
7412	**4801 121 01473**	Cover

© Whirlpool EMEA

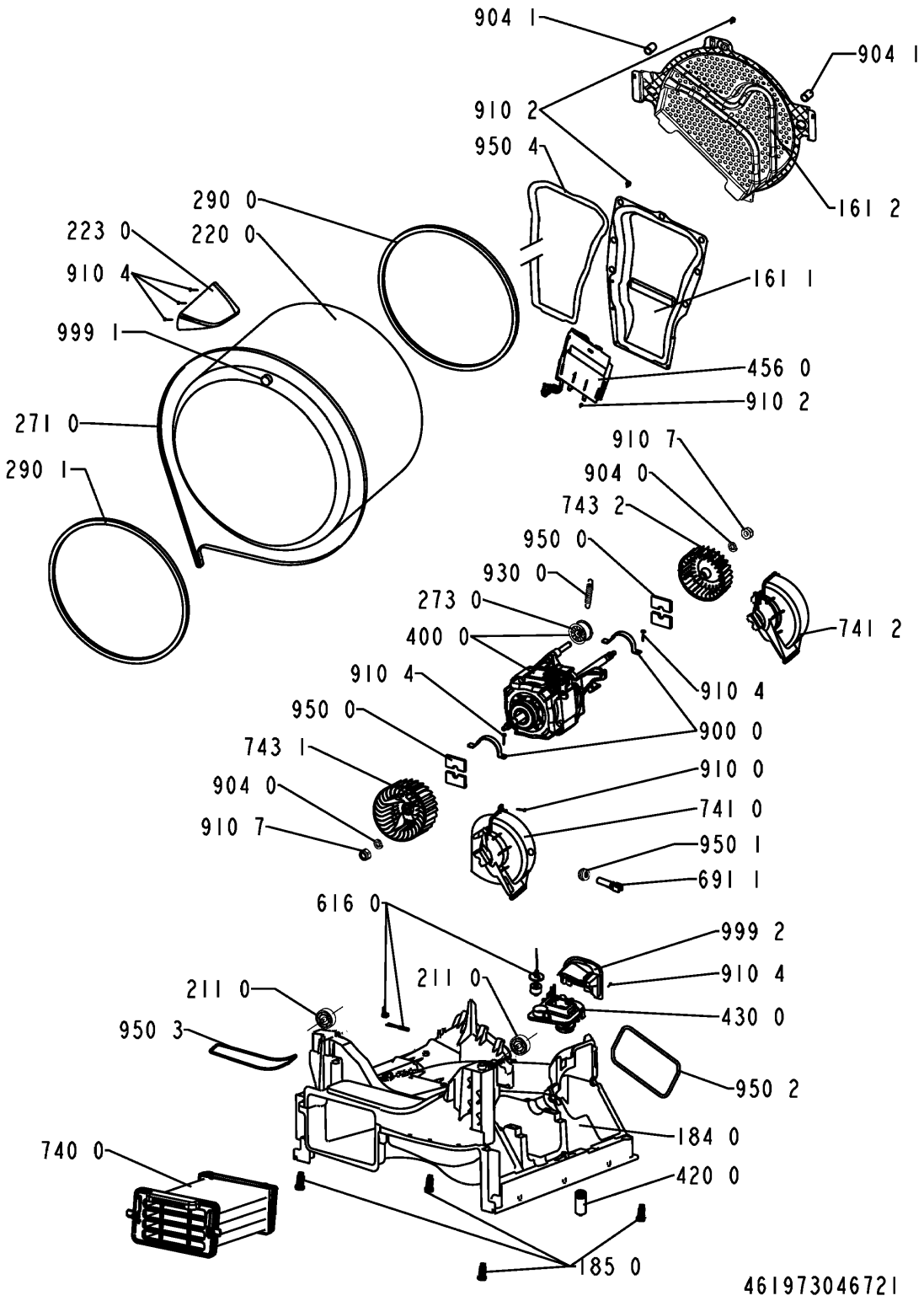
Pos	12NC	Description
7430	**4801 121 01479**	Support front air channel w/o hole lamp
7431	**4801 121 01466**	Fan wheel
7432	**4801 121 01467**	Fan wheel
7500	**4801 121 01514**	Tank
7630	**4801 121 01511**	Filter
7831	**4801 121 01509**	Hose reflow
7832	**4801 121 01508**	Hose
9000	**4801 121 01471**	Clamp
9040	**4801 121 01631**	Washer
9041	**4801 121 01532**	Spacer
9100	**4801 121 01492**	Screw
9101	**4812 502 48347**	Screw,selftap 3,5x14
9102	**4801 121 01491**	Screw.
9104	**4812 502 48353**	Screw 4x20
9105	**4801 121 01528**	Screw.
9106	**4801 121 01488**	Screw
9107	**4801 121 01464**	Nut M6.
9300	**4801 121 01468**	Spring
9301	**4801 121 01561**	Washer
9410	**4801 121 01499**	Bearing
9500	**4801 121 01463**	Felt,strip
9501	**4812 282 98014**	Gasket NTC
9502	**4801 121 01472**	Gasket
9503	**4801 121 01477**	Gasket
9504	**4801 121 01505**	gasket
9990	**4801 111 00231**	Bushing
9991	**4801 121 01493**	Magnet
9992	**4801 121 01526**	Flap

© Whirlpool EMEA

Exploded View



Exploded View



Technical Data

Dimensions + Weight

Product dimensions
- Height ..... 85 cm
- Width ..... 60 cm
- Depth ..... 63 cm

Weight
- net ..... 38 kg

Electrical base data

Voltage ..... 230 V
Frequency ..... 50 Hz
Fuse ..... 10 A
Total connected load ..... 2.3 kW

Surroundings temperature

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

Heating element

Nominal voltage ..... 230 V +10 % / -15 %
Total power ..... 2 x 1000 W ± 5 %
Resistor NTC ..... 1000 W ..... 46.59 Ω
Resistor NTC ..... 2000 W ..... 23.29 Ω

Thermostats condenser

Safety thermostat ..... TL
- Switch off temperature ..... 165°C ± 5 K

Caracteristics of the NTC

SET2		
0°C	38.4	kΩ
25°C	12.0	kΩ
60°C	3.0	kΩ
70°C	2.2	kΩ
95°C	0.1	kΩ
100°C	0.8	kΩ
110°C	0.6	kΩ
130°C	0.4	kΩ
180°C	0.1	kΩ

© Whirlpool EMEA

SET1		
0℃	36.0	kΩ
30℃	9.8	kΩ
40℃	6.7	kΩ
50℃	4.6	kΩ
60℃	3.2	kΩ
70℃	2.3	kΩ
95℃	1.1	kΩ

Main- and blower motor

Type ..... 1-phase asynchronous motor
Nominal voltage ..... 230 V +10 % / -15 %
Frequency ..... 50 ± 3 Hz
Power Consumption ..... 300 W
Resistor (coil)
Main coil ..... (2 - 3) ..... 18.6 Ω ± 8 %
Auxiliary coil ..... (3 - 4) ..... 14.9 Ω ± 16 %

Condensation pump

Type 1-phase
Nominal voltage ..... 220 - 240 V +10 % / -15 %
Frequency ..... 50 Hz
Resistance ..... (20℃) ..... 716 Ω
Power Consumption ..... 7.5 ± 3 W
Capacity (height 1.1m) ..... 2.6 l/min

Reed contacts

Water Level

Type ..... SLE
Nominal voltage ..... 5 V
Current ..... 0.5 mA

Door switch

Type ..... DS
Nominal voltage ..... 5 V
Current ..... 0.5 mA

Heat exchanger

Type ..... HX
Nominal voltage ..... 5 V
Current ..... 0.5 mA

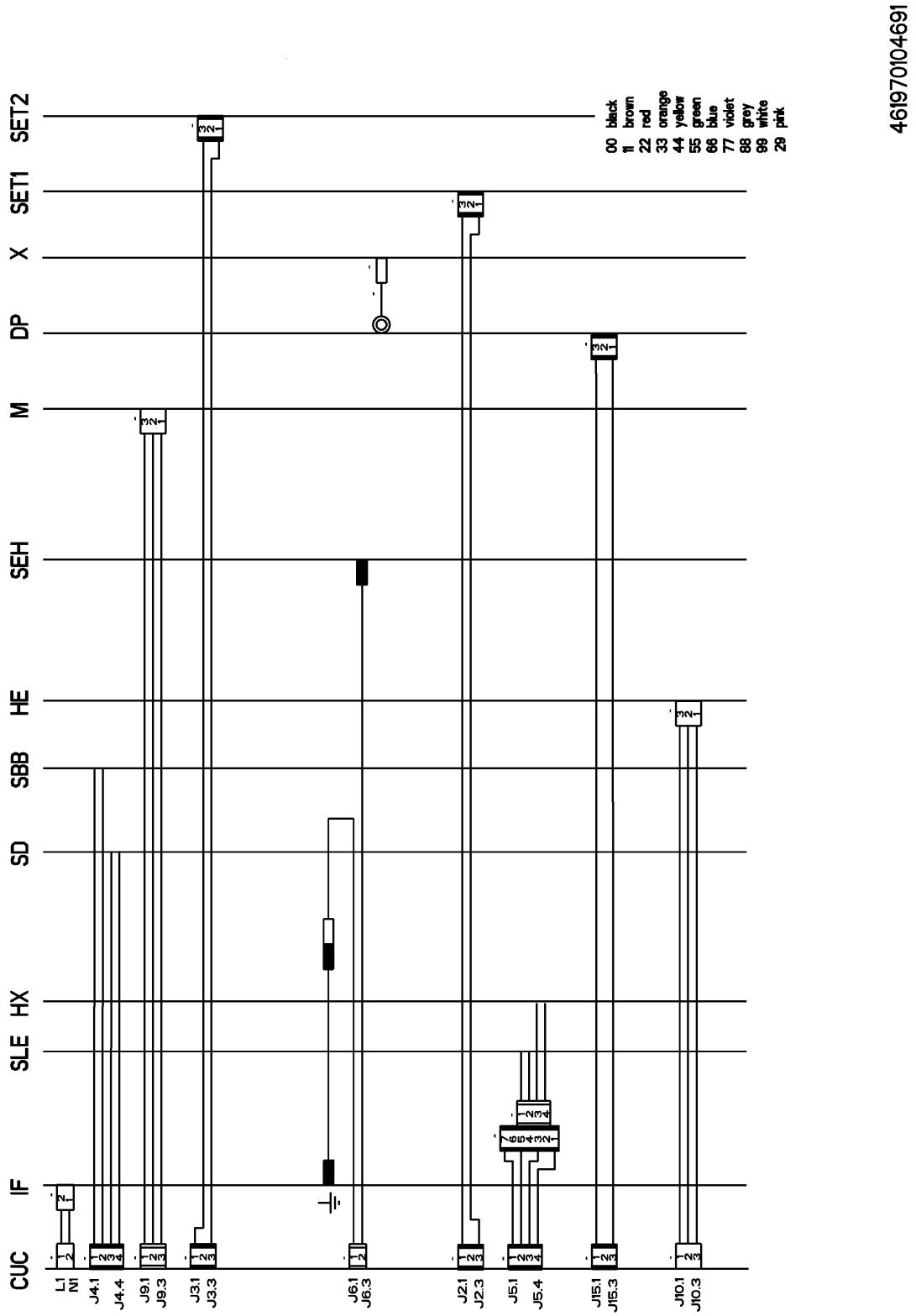
Micro switch

Type ..... SBB
Nominal voltage ..... 5 V
Current ..... 0.5 mA

Control module

Type ..... TINY/DOMINO
Nominal voltage ..... 230 V +10 % / -15 %
Frequency ..... 50/60 Hz

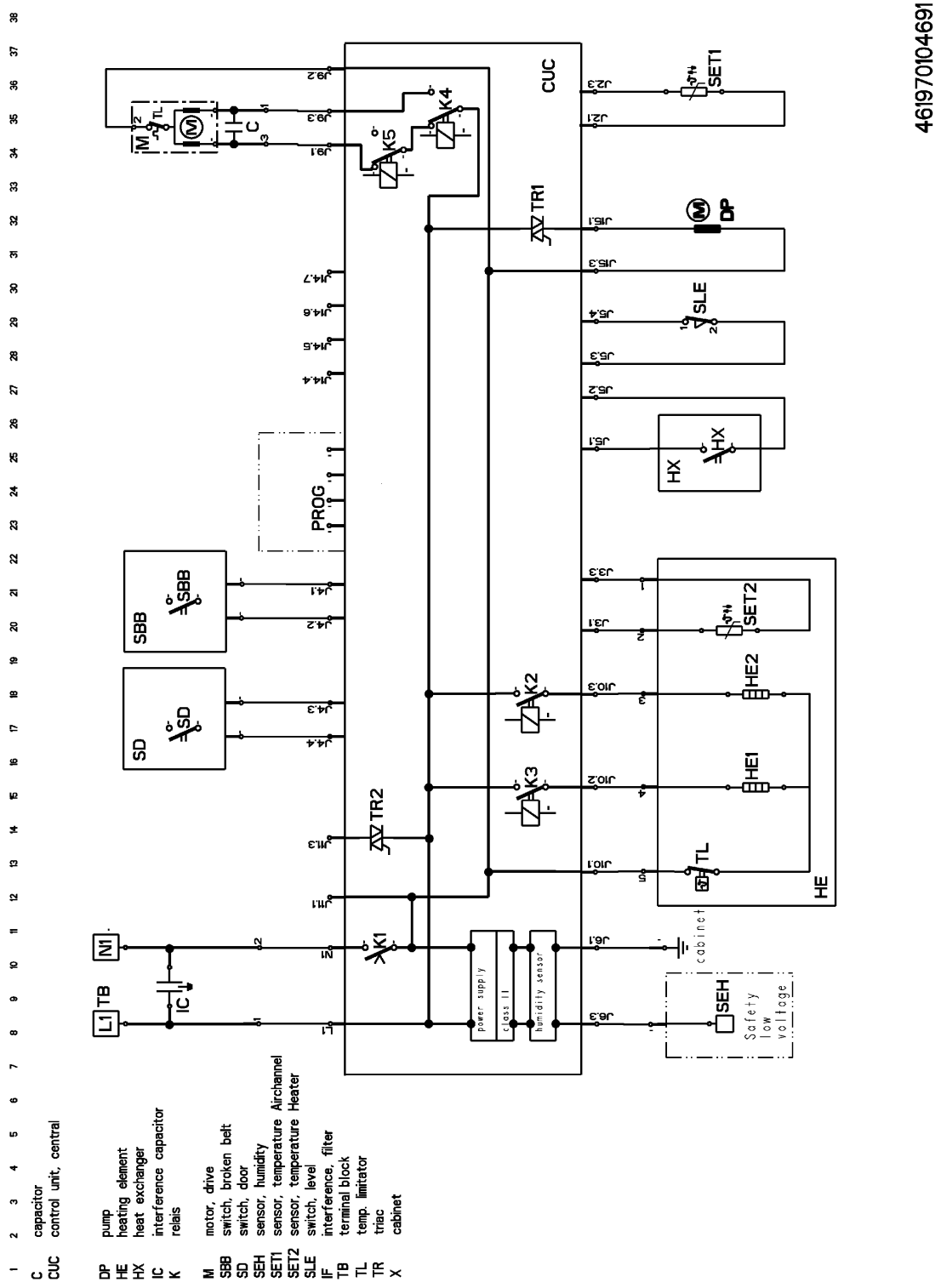
Wiring Diagram



Legend

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

Circuit Diagram



Legend

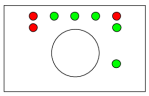
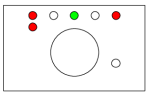
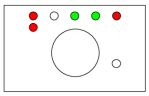
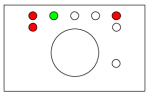
C	capacitor
CUC	control unit, central
DP	pump
HE	heating element
HX	heat exchanger
IC	interference capacitor
IF	interference, filter
K	relais
M	motor, drive
SBB	switch, broken belt
SD	switch, door
SEH	sensor, humidity
SET1	sensor, temperature Airchannel
SET2	sensor, temperature Heater
SLE	switch, level
TB	terminal block
TL	temp. limitator
TR	triac

© Whirlpool EMEA

Testprogram

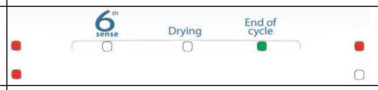
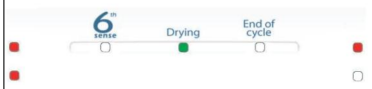
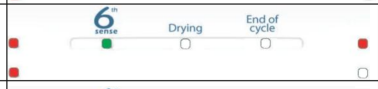
Zephyr

1. Close the door or close the door switch
2. Selected the AIRING program
3. Press push button (PB) GENTLE 3 times within 5 seconds afterwards press Start button.
4. Go to the next step press (PB) START
5. How to leave the test program
   - Interrupt of the mains supply for a minimum time of 2 seconds
     or
   - Open door
     or
   - Turn rotary selector
     or
   - Last step of test program is reached and START button is pushed

LED Status	Display	Description of the Program Flow	Test/Tested Component
	S:01	Display and button test Heat Exchanger position test, Drum Light function via corresponding button	Buttons, Drum Light, Reed Sensor Heat Exchanger positioning
	S:02	Motor is turning clockwise Heating Element one coil is switched on	Motor, Heating Element
	S:03	Motor is turning counter clockwise The other coil of Heating Element is switched on Pump is running	Motor, Heating Element, 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 floater function is tested	Humidity Sensor, Float Reed Switch
	LAST ERROR	Last failure which has been detected is displayed	
EXIT		By pressing the START BUTTON	Leave test program

Error Codes

Zephyr

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 CCU.
Data corruption	F02		Apply service reset procedure (see below). If not solving the issue then reprogram the CCU with the eSAM. If issue is still not solved, replace the CCU.
Humidity sensing system	F03		Check wiring of humidity sensing circuit. If problem still present then change the CCU.
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 CCU.
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 CCU.
Communication failure CCU – MCU (BPM motor only)	F10	--	Check connection between CCU 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 CCU 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 CCU 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 CCU to fan wiring. If everything is ok then replace the fan.

To carry out the reset procedure the following sequence must be performed within 10 sec.:

a) Turn selector in 6 o'clock position (down)
b) Push "start" button three times
c) Turn selector clockwise one position (airing program)
d) Push "start" button three times