

## **CIRCUIT BOARDS OFF DUE TO SHORT-CIRCUITED MICROPROCESSOR**

### **DESCRIPTION:**

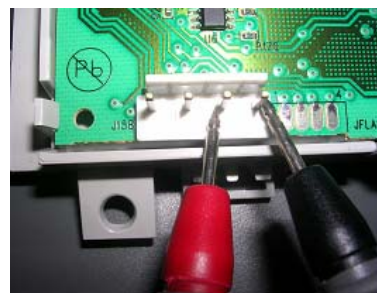
The user encounters this problem when the washing machine is forced to turn off during the water drain phase.

During this phase, in some cases in washing machines fitted with the Aqua control system (water leaks onto the base frame control float) and certain wiring, there are some voltage peaks, which cause the microprocessor to burn and the washing machine to consequently switch off. It is then impossible to switch it back on.

### **HOW TO CHECK WHETHER THE MICROPROCESSOR HAS BURNED**

A simple procedure makes it possible to determine whether the washing machine switched off because the microprocessor had burned and had, therefore, short-circuited or because there were other problems linked to the circuit board.

- Open the control panel to access the board.
- Measure with a tester set to  $\Omega$  the resistance between points 3 and 4 of connector J15B (connector used for configuration)



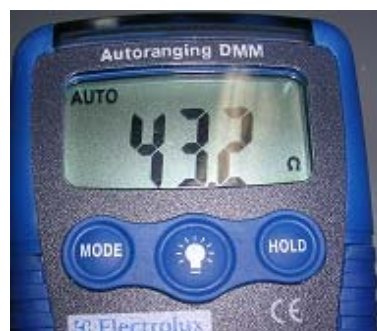
- If the value measured is **more** than 1000  $\Omega$  (1K $\Omega$ ), the microprocessor has not burned.

*Example in figure 1,064 K $\Omega$  the microprocessor is OK.*



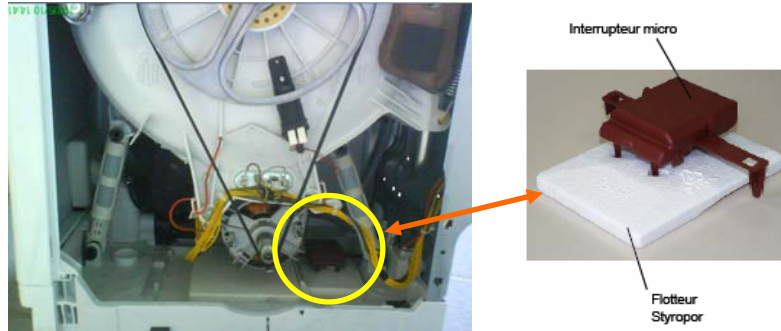
- If the value measured is **less** than 1000  $\Omega$  (1K $\Omega$ ), the microprocessor has burned.

*Example in figure 43.2 K $\Omega$  the microprocessor has burned.*



## MODELS CONCERNED

This problem could occur in all top loading washing machines fitted with the Aqua control system (water leaks onto the base frame control float) with the following serial numbers and PNCs:

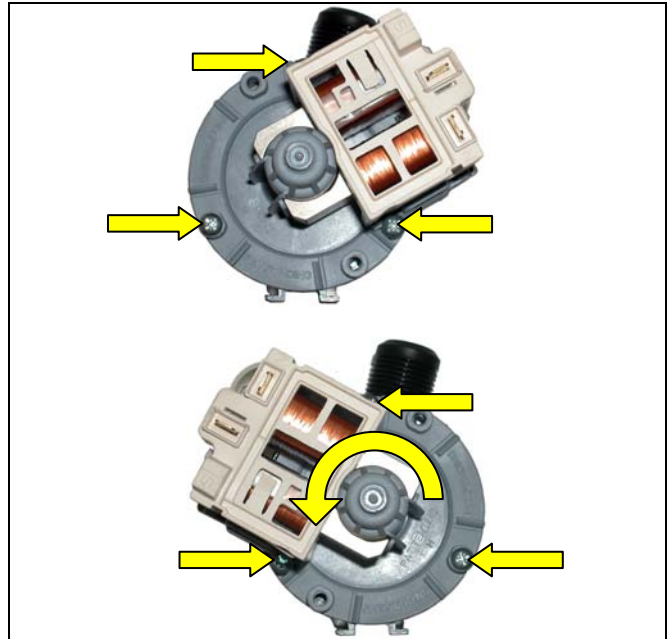


PNC	ELC	For appliances produced up to serial no.
913 211 871	00; 01; 02; 03; 04; 05;	922xxxxx
913 211 881	00; 01; 02; 03; 04; 05; 06; 07;	012xxxxx
913 211 891	00; 01; 02;	738xxxxx
913 212 041	00; 01; 02; 03; 04;	817xxxxx
913 212 191	00; 01; 02; 03; 04;	948xxxxx
913 212 201	00; 01;	825xxxxx
913 212 211	00; 01; 02; 03; 04; 05;	949xxxxx
913 212 221	00; 01; 02; 03; 04; 05; 06; 07;	012xxxxx
913 212 231	00; 01; 02; 03; 04; 05; 06;	012xxxxx
913 212 241	00; 01; 02; 03; 04; 05; 06;	012xxxxx
913 212 251	00; 01; 02; 03; 04; 05;	937xxxxx
913 212 331	00; 01; 02; 03; 04; 05; 06;	012xxxxx
913 212 391	00; 01; 02; 03; 04; 05; 06;	917xxxxx
913 212 401	00; 01; 02; 03; 04; 05; 06; 07;	012xxxxx
913 212 461	00; 01; 02; 03; 04; 05;	012xxxxx
913 212 531	00; 01; 02; 03; 04; 05; 06; 07;	951xxxxx
913 212 661	00; 01; 02; 03; 04; 05;	012xxxxx
913 212 671	00; 01; 02; 03; 04; 05;	950xxxxx
913 212 681	00; 01; 02; 03; 04; 05;	012xxxxx
913 212 691	00; 01; 02; 03;	737xxxxx
913 212 701	00; 01; 02; 03; 04; 05;	950xxxxx
913 212 711	00; 01; 02; 03; 04;	950xxxxx
913 213 111	00; 01; 02; 03;	804xxxxx
913 213 171	00; 01; 02; 03;	820xxxxx
913 213 181	00; 01; 02; 03; 04; 05; 06; 07;	950xxxxx
913 213 241	00; 01; 02; 03;	834xxxxx
913 213 361	00; 01; 02; 03; 04; 05; 06;	950xxxxx
913 213 371	00; 01; 02; 03; 04; 05; 06;	937xxxxx
913 213 381	00; 01; 02; 03; 04; 05;	937xxxxx
913 213 391	00; 01; 02; 03; 04; 05;	941xxxxx
913 213 571	00; 01; 02; 03; 04; 05;	937xxxxx
913 213 831	00; 01; 02; 03; 04; 05; 06;	942xxxxx
913 214 601	00; 01; 02;	830xxxxx
913 214 611	00; 01; 02; 03; 04;	012xxxxx
913 214 641	00; 01;	827xxxxx
913 214 961	00; 01; 02;	851xxxxx
913 214 991	00; 01; 02; 03; 04;	935xxxxx
913 215 001	00; 01; 02; 03;	942xxxxx
913 215 071	00; 01; 02; 03; 04; 05;	937xxxxx
913 215 361	00; 01; 02; 03;	012xxxxx
913 215 461	00; 01; 02;	012xxxxx
913 215 601	00; 01; 02;	927xxxxx
913 215 661	00; 01;	012xxxxx
913 215 671	00; 01;	012xxxxx
913 215 681	00; 01; 02;	012xxxxx
913 215 711	00; 01;	012xxxxx
913 215 721	00; 01;	012xxxxx
913 215 731	00; 01;	012xxxxx
913 215 891	00; 01;	012xxxxx
913 215 961	00; 01;	012xxxxx

## SOLUTION

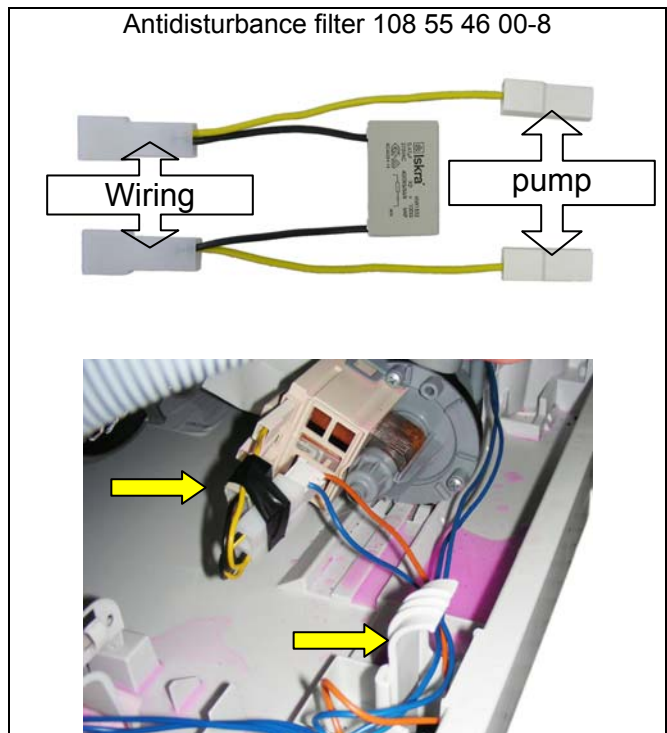
To avoid this problem reoccurring after the main circuit board has been replaced, you will need to fit an antidisturbance filter code **108 55 46 00-8** onto the drain pump inlet according to the following instructions:

- Remove the left side panel.
- Disconnect the water drain pump electrics.
- Loosen the 3 screws shown in the figure which secure the motor to the pump body.
- Turn it by 30° anticlockwise as shown in the figure and secure everything with the 3 screws you removed previously.



- Connect the two wires you previously removed onto the ends of the antidisturbance filter (SNUBBER) and the two yellow wires of the antidisturbance filter to the ends of the pump.

SNUBBER antidisturbance filter code  
**108 55 46 00-8**



- Wrap the antidisturbance filter and respective connectors with insulating tape as shown in the figure, taking care that the contacts are not in contact with the base frame.
- Thread the electrical wires through the pipe retaining hook.
- Reposition the pipe you removed previously and reposition the left side panel.

## SPARE PART:

Antidisturbance filter code (SNUBBER) **108 55 46 00-8**