



**PROCEDURE FOR CAPACITIVE SENSOR EXCHANGE**  
- ONLY FOR DRYERS EQUIPPED WITH CAPACITIVE SENSOR (3D SCAN TECHNOLOGY) -

**DESCRIPTION:**

If the capacitive sensor needs to be replaced, this service bulletin describes the correct procedure.

**IMPORTANT**

Typical symptoms of capacitive sensor defect:

- Automatic drying cycle blocked after few minutes. No issue on time program
- Automatic drying cycle takes too long. No issue on time program

It is possible that the issue will be detected by electronic and communicated in the diagnostic mode with alarm E34 or E35

**SOLUTION:**

In case of a need of the capacitive sensor exchange (at any reason), service technician needs to:

- Replace the capacitive sensor with a new one
- Use SidekickPC to reprogram the main electronic board with the latest software or replace it with already programmed one.  
**IMPORTANT: Update the SidekickPC before performing this action to have the latest software update available.**
- Replace the wiring harness (humidity sensor – PCB) with new one

Follow the **PROCEDURE** section below

**PROCEDURE:**

<b>STEP 1</b>	<p><b>Verify if there are any other issues.</b></p> <p>There might be issues which may have influence on the drying performance.  <a href="https://www.aeg.co.uk/support/support-articles/laundry/dryers/tumble-dryers-drying-results-are-poor-and-laundry-is-damp-after-drying/">(https://www.aeg.co.uk/support/support-articles/laundry/dryers/tumble-dryers-drying-results-are-poor-and-laundry-is-damp-after-drying/)</a>          For heat pump dryers see service bulletin no. 599 81 53-46 DIAGNOSTIC TEST FOR HEAT-PUMP MODULE OPTIFLOW</p>
<b>STEP 2</b>	<p><b>Verify the wire connection between humidity sensor and main board</b></p> <p>If the wire connection is OK go to STEP 3, otherwise fix the connection and restart then got to STEP 1</p>
<b>STEP 3</b>	<p><b>Components replacement procedure</b></p> <ol style="list-style-type: none"> <li>1. Check the rating plate of the appliance (affixed behind the door)</li> <li>2. If the PNC ELC is listed in the Table 1 Spare parts list, replace component as indicated in the table.</li> </ol> <p><b>Remark!</b>  <b>When using naked PCB, it must be programmed as in Table 1 Spare parts list according to column named “ELC Sidekick”</b></p> <p><b>When replacing the wiring harness use the ferrites from the old/replaced wiring harness and locate them in the same place – see dedicated chapter below.</b></p> <p><b>In case the WiFi module need to be replaced - follow please the Service Manual 599 811-937.</b></p>

It is highly recommended to instruct the client that in case of any next service visit the technician should be informed that **“humidity sensor has been replaced according to the special service bulletin”**.

In any case a technician can recognize the new configuration from higher ELC by looking at the double wire connection to PCB shown at **“AFTER REPLACEMENT OF COMPONENTS FROM HIGHER ELC”**.

**CHECK LIST**

*Table 1 Spare parts list*

PNC ELC	Humidity sensor <b>NEW!</b>	Wiring harness <b>NEW!</b>	PCB (naked)		PCB (programmed) <b>NEW!</b>
			<b>NEW!</b>	<b>ELC Sidekick</b>	
<b>PNC with WiFi</b>					
916098615 00	140108726229	140183500036	140126895899	<b>01</b>	973916098615016
916098616 00	140108726229	140183500036	140126895899	<b>01</b>	973916098616014
916098617 00	140108726229	140183500036	140126895899	<b>01</b>	973916098617012
916098618 00	140108726229	140183500036	140126895899	<b>90</b>	973916098618903
916098618 05	140108726229	140183500036	140126895899	<b>06</b>	973916098618069
916098620 00	140108726229	140183500036	140126895899	<b>01</b>	973916098620016
916098624 00	140108726229	140183500036	140126895899	<b>01</b>	973916098624018
916098628 00	140108726229	140183500036	140126895899	<b>01</b>	973916098628019
916098632 00	140108726229	140183500036	140126895899	<b>01</b>	973916098632011
916098634 00	140108726229	140183500036	140126895899	<b>01</b>	973916098634017
916098638 00	140108726229	140183500036	140126895899	<b>01</b>	973916098638018
916098641 00	140108726229	140183500036	140126895899	<b>01</b>	973916098641012
916098642 00	140108726229	140183500036	140126895899	<b>01</b>	973916098642010
916098643 00	140108726229	140183500036	140126895899	<b>01</b>	973916098643018
916098661 00	140108726229	140183500036	140126895899	<b>02</b>	973916098661028
916098727 00	140108726229	140183500036	140126895899	<b>01</b>	973916098727019
916098751 00	140108726229	140183500036	140126895899	<b>01</b>	973916098751019
916098775 00	140108726229	140183500036	140126895899	<b>01</b>	973916098775018
<b>PNC without WiFi</b>					
916098614 00	140108726229	140183500036	140126895899	<b>01</b>	973916098614019
916098621 00	140108726229	140183500036	140126895899	<b>01</b>	973916098621014
916098623 00	140108726229	140183500036	140126895899	<b>01</b>	973916098623010
916098626 00	140108726229	140183500036	140126895899	<b>01</b>	973916098626013
916098629 00	140108726229	140183500036	140126895899	<b>01</b>	973916098629017
916098630 00	140108726229	140183500036	140126895899	<b>01</b>	973916098630015
916098631 00	140108726229	140183500036	140126895899	<b>01</b>	973916098631013
916098633 00	140108726229	140183500036	140126895899	<b>90</b>	973916098633902
916098633 01	140108726229	140183500036	140126895899	<b>02</b>	973916098633027
916098635 00	140108726229	140183500036	140126895899	<b>01</b>	973916098635014
916098636 00	140108726229	140183500036	140126895899	<b>01</b>	973916098636012
916098637 00	140108726229	140183500036	140126895899	<b>01</b>	973916098637010
916098639 00	140108726229	140183500036	140126895899	<b>01</b>	973916098639016
916098640 00	140108726229	140183500036	140126895899	<b>01</b>	973916098640014
916098645 00	140108726229	140183500036	140126895899	<b>01</b>	973916098645013

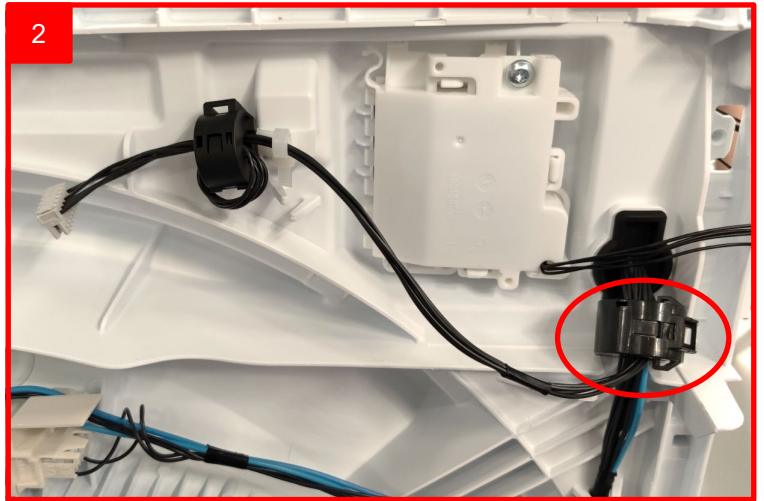
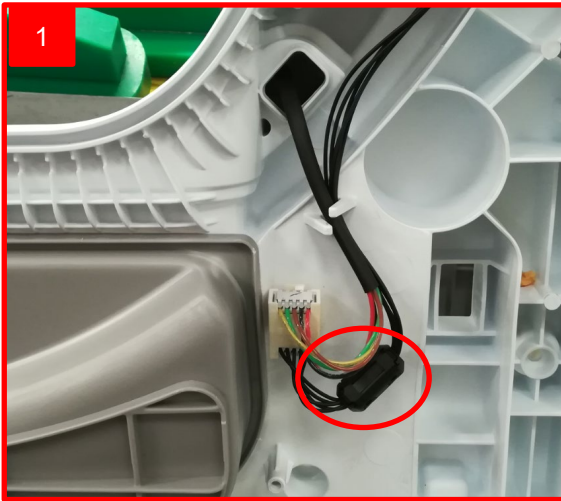
### FERRITE TO BE USED FROM OLD HARNESS

When replacing the wiring harness move the ferrites from the old/replaced wiring harness and locate them in the same places on the new wiring harness

Note please that each ferrite is different, it need be placed in the original place.

**1** Ferrite location at the Capacitive sensor - applicable for all the models (with and without WiFi)

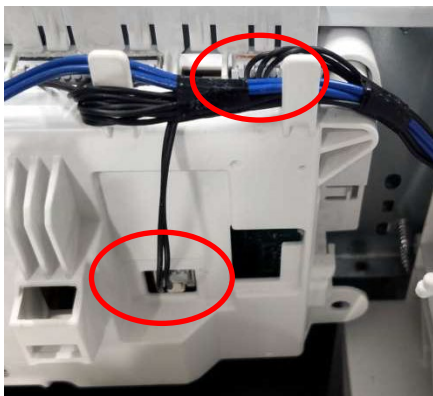
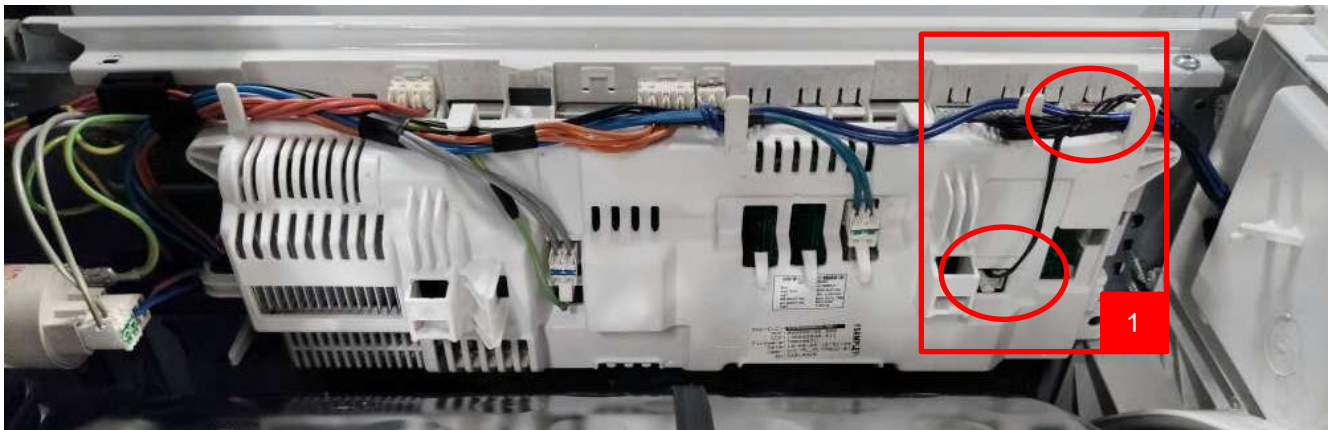
**2** Ferrite location at the WiFi module clamping the wires - applicable only for WiFi models



### AFTER REPLACEMENT OF COMPONENTS FROM HIGHER ELC

Pictures showing the final connection.

**1** Double wire connection for the new humidity sensor



**QES CODE:**

During the intervention please use work code:

Component	G45 407 Humidity sensor
Defect	G45 22 Electrical fault

In the section for Tech. Comments start the description with the following:

**Alarm [E??/ E??/ E??] / SB599842450**

**MODELS INVOLVED:**

Heat pump dryers equipped with capacitive sensor (3D scan technology)

**INTERCHANGEABILITY:**

Affected spare parts codes need to be replaced with new spare part codes

**REVISION:**

Revision	Date	Description	Author	Approved by - on
00	11/2020	Document Creation	Marcin Pluta	Marek Kapustka 18.10.2020
01	02/2021	Update	Marcin Pluta	Marek Kapustka 22.02.2021