Introduction

- A potential quality issue exists with GB142 boilers manufactured during a two week period in September 2007. It is possible that the connector housing attached to the cable harness for the on/off switch may be of the incorrect material. All affected boilers must be inspected and the connector replaced if necessary. In this document you will find the work instructions for carrying out this inspection and if necessary, connector replacement. Any questions, please contact the Buderus Technical Service Department at 1-800-283-3787.

Reference Document

- 72149400 - 05/2005 US/CA (EN) Servicing Instructions - Condensing Gas Boiler Logamax plus GB142-24/30/45/60

Work instruction

1. Disconnect power supply. Before starting with the rework operation, please disconnect the appliance from the main power supply and/or turn off the main electricity from the building.

2. Check for green sticker. Open the control drawer and check if there is a green round sticker in the control unit as shown below. (fig.1 pos.1)

- In case there is a green sticker present: Appliance has the correct connector housing, no further rework action required. Note serial number of appliance and skip to Step 7.
- In case there is no green sticker present: Continue with Step 3.

3. Check manufacturing date. The wrong connector housing can only apply to appliances with a date code in the serial number of the device between 7246 and 7256. Remove the cover of the appliance and check the manufacturing date code on the product label as shown below. (fig. 2. pos.1).

- Is the date code smaller then 7246 or bigger then 7256: Appliance has the correct connector housing, no further rework action required. Note serial number of appliance and skip to Step 7.
- Is the date code between 7246 and 7256: Note serial number of appliance and continue with Step 4.
4. Check wire harness. Disassemble the control unit by levering the pivot point on both sides of the front of the control unit with a flat screwdriver as shown below. (fig.3)

![Figure 3](image)

**WARNING**

THE APPLIANCE MUST BE DISCONNECTED FROM MAIN POWER SUPPLY. FAILURE TO DO SO COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.

Now the front of the control unit can be lifted up to expose the rear of the on/off switch with the connector as shown below. (fig. 4)

![Figure 4](image)

Check the label from the wire harness of the on/off switch which is now also exposed as shown below. (fig. 4). Check the name of the wire harness manufacturer on the label as shown below. (fig. 5).

![Figure 5](image)

- Does the label say “PLATI” (fig. 5): Appliance has the correct connector housing, no further rework action required. Note name of wire harness manufacturer. Reassemble the boiler in reverse order and skip to step 7.
- Does the label say “CONTEC” (fig 5): Continue with Step 5.
5. Replace connector housing. When the appliance has a wire harness from the manufacturer “CONTEC”, the connector housing of the wire harness to the on/off switch has to be replaced with a new one supplied by Buderus. To do this, disconnect the wire harness connector from the on/off switch as shown below. (fig.6)

By doing this you push in a locking pin which holds the connector pin in place after which you can pull back the associated wire and extract the pin from the back of the connector housing. Before reinserting the pins in the new connector, the locking pins must be bended back into their original positions. (fig.8)

**Figure 6**

The 4 pins from the connector now have to be fitted in the new connector housing one by one to assure they will be placed in the same configuration. The pins inside the connector housing can be released by pushing a small flat screwdriver into the indentation on the front of the connector. (fig.7 pos.1)

**Figure 7**

Attention: To prevent inserting pins in the wrong position, transfer the pins one by one.

Attention: make sure all the pins are locked into position in the new connector housing by pulling them softly.

Note the manufacturing date, revision and test information of the label from the wire harness as shown below. (fig.9 pos.1 and 2)

**Figure 8**

**Figure 9**

After replacing the old connector housing, reconnect the wire harness to the on/off switch of the appliance and reassemble all parts in reverse order. After reassembly, the appliance can be reconnected to the power supply and switched on again.
6. Completing rework. To be able to recognize a appliance which has been fitted with a new connector housing in the future, a green sticker needs to be placed in the control unit as shown below. (fig.10 pos.1).

![Figure 10](image)

7. Inform Buderus of boiler check/rework. Send the following acquired information back to Buderus:

- Serial number of the appliance. (######## - ## - #### - ####). When?: Always.
- Manufacturer name on the label of the wire harness. (‘Contec’ or ‘Plati’). When?: If appliance had no green indication sticker on the control unit and is within specified date range of the serial number.
- Serial number on the label of the wire harness. (e.g. ‘24.09.2007 9888 EL.TEST B.A/Z’). When?: In case of replacing connector housing.
- Installation address. When?: Always.
- Company name and name of the person who reworked the boiler. When?: Always.

Destroy or dispose of the old/removed connector housing.