

Furnace Integrated Module – PCBBF

Inventory Replacement Instructions

Items Required for Rework:

- Needle Nose Pliers
- Green Bingo Dabber (or equivalent) to indicate reworked units
- Gloves
- Safety Goggles

ELECTROSTATIC DISCHARGE (ESD) PRECAUTIONS NOTE:

Discharge your body's static electricity before touching unit. An electrostatic discharge can adversely affect electrical components. Use the following precautions during process of changing the furnace integrated control module. By putting the furnace, the control, and the person at the same electrostatic potential, these steps will help avoid exposing the integrated control module to electrostatic discharge. This procedure is applicable to uninstalled (ungrounded) furnaces.

1. Do not touch the integrated control module prior to discharging your body's electrostatic charge to ground.
2. Firmly touch a clean, unpainted, metal surface of the furnace away from the control. Any tools held in a person's hand during grounding will be discharged.
3. Use caution not to recharge your body with static electricity; (i.e., do not move or shuffle your feet, do not touch ungrounded objects, etc.). If you come in contact with an ungrounded object, repeat step 2 before touching control or wires.
4. Discharge your body to ground before removing a new control from its container. Follow steps 1 through 3 if installing the control on a furnace. Return any old or new controls to their containers before touching any ungrounded object.

BOARD REPLACEMENT PROCEDURE:

1. Open the stretch wrap and remove straps from unit and scrap.
2. Remove the top carton (Goodman units) or sleeve (Amana/Daikin units) and put aside for use later.
3. Open both doors and place them beside the unit. ***Note: Take precaution to keep correct door with serial date label with correct unit and this will be verified in later step when reinstalling the doors.***
4. Remove the wires from the control board using needle nose pliers and then any wiring harnesses (i.e. 12-pin harness, 2-pin harness). ***Note: Pliers are not required to remove the 12-pin or 2-pin harnesses.***
5. Repackage the replaced (old) control board in the packaging from the replacement board and hold for return to Goodman.
6. Install the new control board and re-wire it per wiring diagram. Do not force the harness into place or damage harness by using pliers. For communicating units with the PCBKF105 control board ensure dipswitches are set the same as replaced board.

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7. Install both doors. *Note: Take precaution to keep correct door with serial data label (Figure1) with correct unit and verify this with small bar code inside unit (Figure2) to ensure the serial numbers match.*



Figure 1



Figure 2

8. Install the top carton or sleeve (per model).
9. Put “Green DOT” on the traveler by using Green Bingo Dabber (or equivalent).
10. Wrap each individual unit and then band strap the unit and then wrap four units together.
11. For units repaired in distributor inventory do not file claims through Warranty Express, use the supplied Dist Rework Report form.
 - a. Using the “Data” tab in the supplied spreadsheet enter the Model, Serial, Distributor Name, City, State, Date Replaced, Replaced By, Original Board Part#, and Replacement Board Part# in the fields provided for the corresponding unit reworked.
12. Replaced boards should be repackaged in the box from the replacement board and bulk packed for return to Goodman. Every attempt should be made to return these boards in reusable condition. Once you have completed the rework process for all units in your inventory contact your Goodman CSR to request an RMA to return these replaced boards.
13. To receive labor for reworking units in inventory email all completed spreadsheets to Technical Services with email Subject title “SF-073 Rework” at email address TechServices@goodmanmfg.com