

Control Board Replacement Procedure

Models: Bosch BOVA Split System Heat Pump



BOSCH

**WARNING:**

- ▶ Improper servicing could result in dangerous operation, injury or property damage. The operations described below must be performed by qualified personnel.

NOTICE:

- ▶ Do not directly touch the components on the main board to avoid static electricity damage.

Board Replacement Procedure (For 3 Ton Unit)

1. Power off and wait at least 3 mins before opening the electric control box.
2. Remove the wirings carefully.
3. Remove the 9 screws on the board (Refer to Figure 1 and information below before removing).



There are different type screws and they shouldn't be mixed. Different screws have different locations. Refer to color coding in Figure 1 for appropriate screw and location.

NOTICE:

- ▶ Use a screw driver instead of electric screw driver or damage to board may occur.

4. Hold the clips and take off the board.
5. Clean the thermal paste on heat sink.
6. Put thermal paste on 3 locations (see Figure 2). The entire contact surface must be covered.
7. Install the new board on the unit.
8. Fasten the 9 screws (Refer to Figure 1).
9. Reconnect the wires according to the wire diagram.

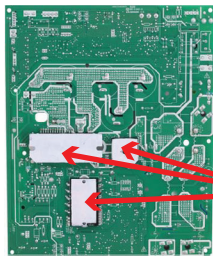


Figure 1

10. Set up the SW4/SW5/J2 switches refer to the original board.
11. Double check the wire connection, screws, thermal paste etc.

NOTICE:

- ▶ Ensure thermal paste is properly applied and all screws are completely screwed down. Failure to do so will cause poor heat dissipation and will lead to control board failure.



Apply
thermal paste
here

Figure 2

Board Replacement Procedure (For 5 Ton Unit)

1. Power off and wait at least 3 mins before open the electric control box.
2. Remove the wirings carefully.
3. If replacing the upper board, hold the clips and remove the board (refer to Figure 4).
4. Take out the old board. Install new board and secure with clips.
5. If replacing the lower board, remove the 6 screws to remove board (refer to Figure 2 and information below).

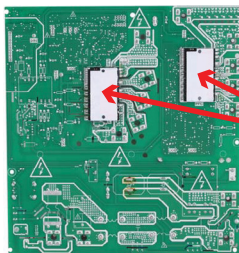


There are different type screws and they shouldn't be mixed. Different screws have different locations. Refer to color coding in Figure 2 for appropriate screw and location.

NOTICE:

- Use a screw driver instead of electric screw driver or damage to board may occur.

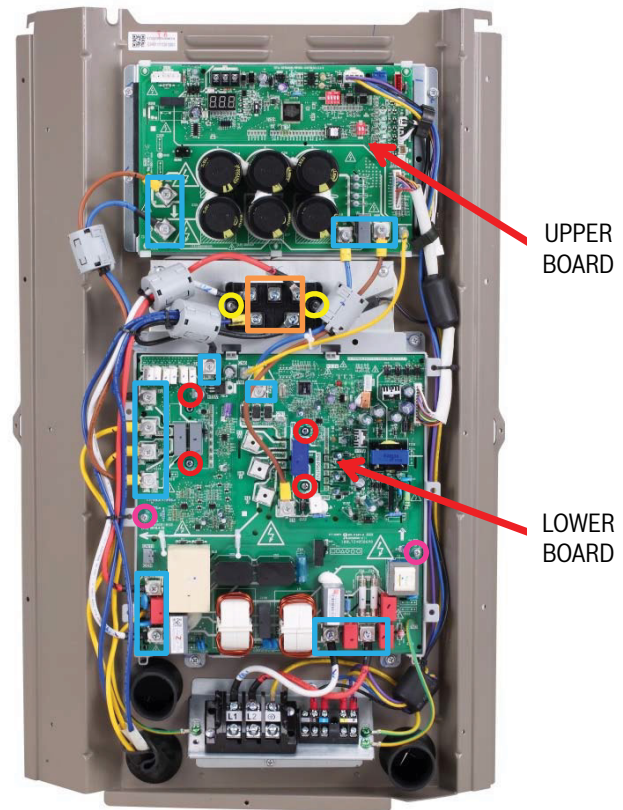
6. Clean the thermal paste on heat sink.
7. Put thermal paste on 2 locations (Figure 3). The entire contact surface must be covered.



Apply
thermal paste
here

Figure 3

8. Install the new board on the unit.
9. Reinstall the 6 screws (refer to figure 4).
10. If changing the bridge, remove the two screws.
11. Put thermal paste on new bridge and install it.
12. Reconnect the wires according to the wire diagram.
13. Set up the SW4/SW5/J2 switches refer to the previous original board.
14. Double check the wire connection, screws, thermal paste etc.



Screw Type					
Color for Location					

Figure 4

NOTICE:

- Ensure thermal paste is properly applied and all screws are completely screwed down. Failure to do so will cause poor heat dissipation and will lead to control board failure.



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