

## Technical Service Bulletin:

# Main Board Replacement Procedure

Models: MOVA 13.4 Air Conditioners / 14.3 Air Conditioners / 14.3 Heat Pumps



### 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

1. Turn off power to both the indoor and outdoor unit and wait AT LEAST 3 minutes before removing the outdoor unit's main board access panel.



### WARNING: ELECTRICAL HAZARD 325 VOLTS DC

- ▶ Wait 3 minutes after disconnecting power, then verify DC voltage is less than 43 VDC at port CN44 (P-N). Components may store a dangerous electrical potential of 325 Volts DC. Failure to follow these instructions could result in personal injury or death.

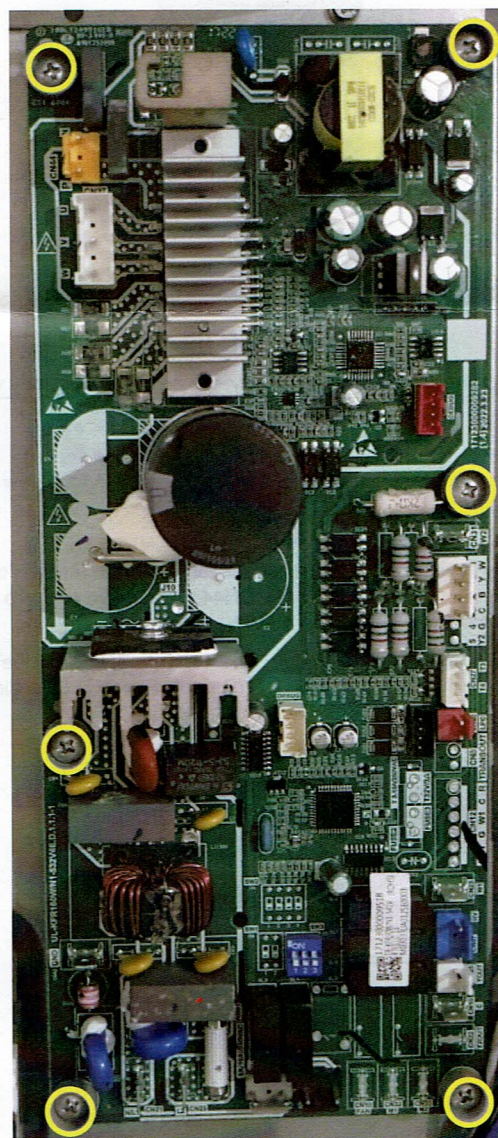
### NOTICE:

- ▶ Take a picture before removing any screws or wiring to use as reference when installing the new board.
- ▶ Use a screw driver instead of an electric screw driver/drill or damage to the main board may occur.
- ▶ There is no need to disconnect the field supplied thermostat wires; directly remove the thermostat wire plug on the main board.

2. Remove all wires and plugs from the main board.
3. Remove the 6 screws on the main board and separate the board from the unit (Refer to Figure 1: items circled in yellow).

### NOTICE:

- ▶ Catch the main board before removing the last screw, or it will drop out and may lead to damage and personal injury.

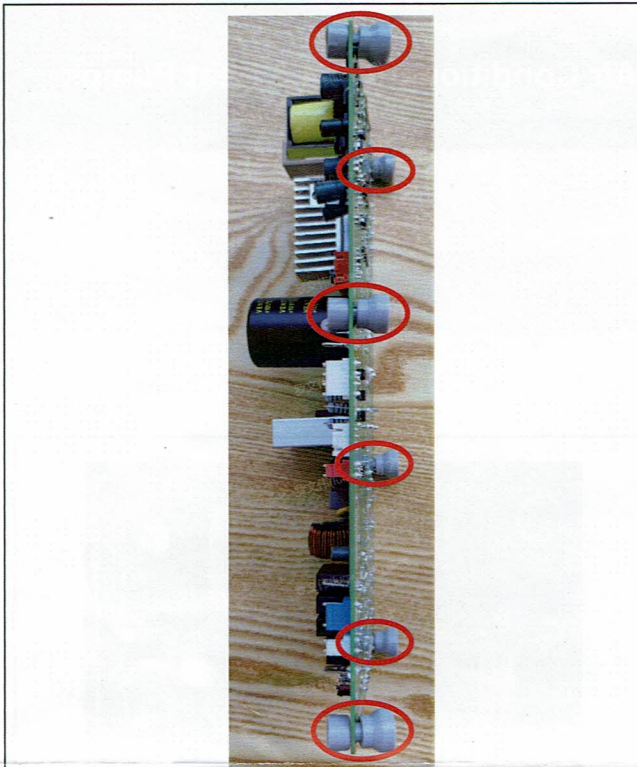


**THE OUTDOOR MAIN BOARD**

\*The photo shown is for reference only, the actual product may vary.

Figure 1

- Install the 6 pairs separation pillars removed from the old board on the new main board (Refer to Figure 2: items circled in red).

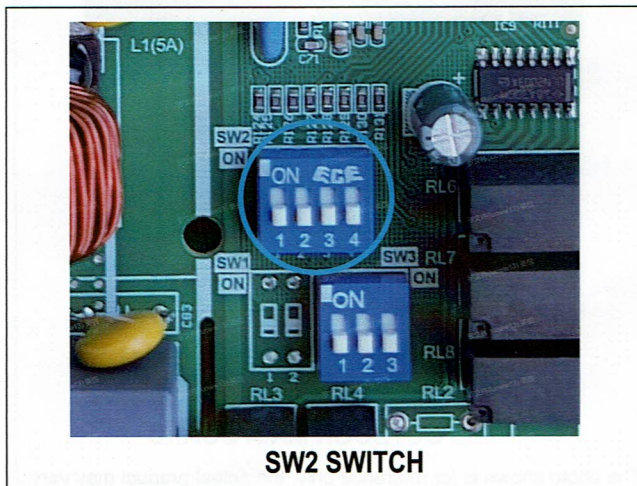


**SEPARATION PILLAR**

\*The photo shown is for reference only, the actual product may vary.

Figure 2

- Install the new board on the unit and fasten all screws removed from the old board (Refer to Figure 1 for screw location).
- Reconnect the wires according to the wiring diagram (referencing the picture that was taken prior to removal of old board). (Note: CN30, CN35, CN44 do not have any wire connections.)
- Set and check SW2 switch code. Refer to Table 1 or the wiring diagram for information (Refer to Figure 3: SW2 circled in blue).



**SW2 SWITCH**

Figure 3

SET CAPACITY	MODEL	18K 1.5TON	24K 2TON	30K 2.5TON	36K 3TON	42K 3.5TON	48K 4TON	60K 5TON
SW2 	13.4AC	011,0	011,0	001,0	010,1	/	/	/
	15.2AC	011,0	001,0	001,0	010,1	011,1	100,1	100,1
	15.2HP	011,0	001,0	001,0	010,1	011,1	100,1	100,1

0/1 DEFINITION OF EACH DIAL CODE SWITCH	SW2 - 4 definition	CODE	TITLE
means 0=OFF	100W FAN MOTOR	13.4AC	13.4 SEER COOL ONLY SYSTEM
means 1=ON	200W FAN MOTOR	15.2AC	15.2 SEER COOL ONLY SYSTEM
		15.2HP	15.2 SEER HEAT PUMP SYSTEM

**SW2 SWITCH CODE**

Table 1

- Double check all wire connections and screw positions before powering on.

**NOTICE:**

- SW3 switch is set for the defrost control mode.