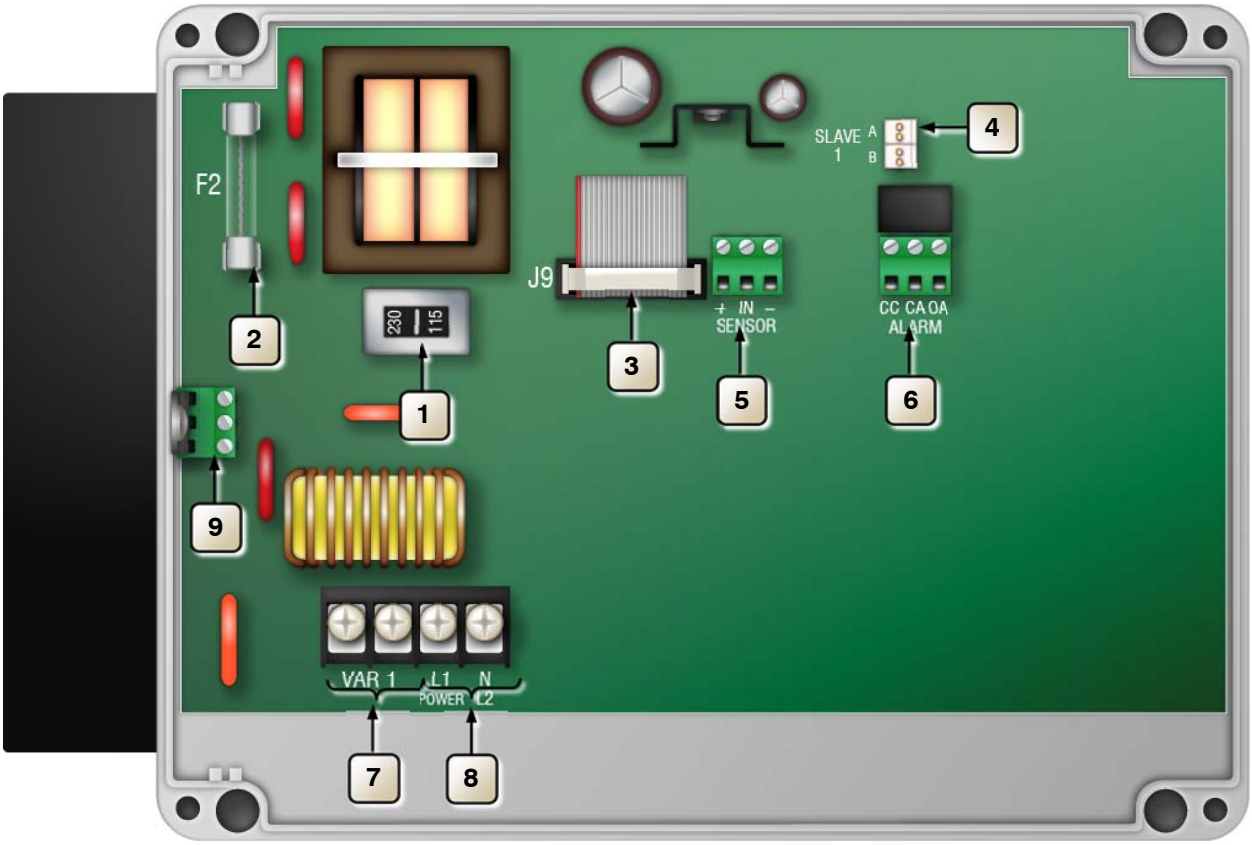
HMC Control Board Kit

The HMC control board kit (K310041) is a replacement circuit board for the Heat Mat Control. Follow the instructions in the order they are listed to replace the circuit board.

Control layout



1	**Voltage selection switch**: set this switch to the correct line voltage.
2	**Control fuse:** 250 V, 1 A fast-acting glass.
3	**Display cable:** make sure the ribbon cable from the display is properly connected to the socket.
4	**Single-Phase Slave connection:** if you are using Single-Phase Slave units to expand the capacity of your control system, connect them here. For more information, read the **Single-Phase Slave installation guide**.
5	**Temperature probe terminals:** connect the temperature probe to the **IN** and **–** of this terminal.
6	**Alarm relay terminals:** connect an external alarm system or alarm siren to this terminal.
7	**Variable AC terminals:** connect a heat mat or heat lamps to these terminals.
8	**Incoming power terminals:** connect the incoming power (120/230 VAC, 50/60 Hz) to this terminal.
9	**Triac terminal:** remove the screw fastening the triac to the heat sink.

Removing the old circuit board

Before installing the kit or servicing the control, switch OFF the power at the source.

1. Switch off the power to the HMC.
2. Gently remove the cover.
3. Disconnect the ribbon cable from the socket.
4. Label and remove the wires from the terminal blocks on the circuit board.
5. Remove the screw fastening the triac to the heatsink.
6. Remove the five screws fastening the circuit board to the enclosure.
7. Remove the circuit board from the enclosure.

Installing the new circuit board

1. Wipe the thermal compound (white paste) and dust from the inside of the heatsink using a clean cloth.
2. Remove the new circuit board from the bag.
3. Set the voltage selection switch to the correct line voltage.
4. Remove the orange cap from the triac. Avoid contaminating the thermal compound with dust.
5. Place the new circuit board in the enclosure.
6. Fasten the circuit board to the enclosure using the five screws.
7. Fasten the triac to the heatsink using the screw. The triac must be flush against the heatsink. Do not over tighten the screw.
8. Reconnect the wires to their correct terminals.
9. Reconnect the ribbon cable to the socket.
10. Verify all wires are properly connected to their correct locations.
11. Switch on the power to the control and verify it operates properly. If it does not operate properly, check the wiring and ribbon cable connection. If the unit still will not operate properly, contact your dealer.
12. Fasten the cover to the enclosure using the four screws.

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