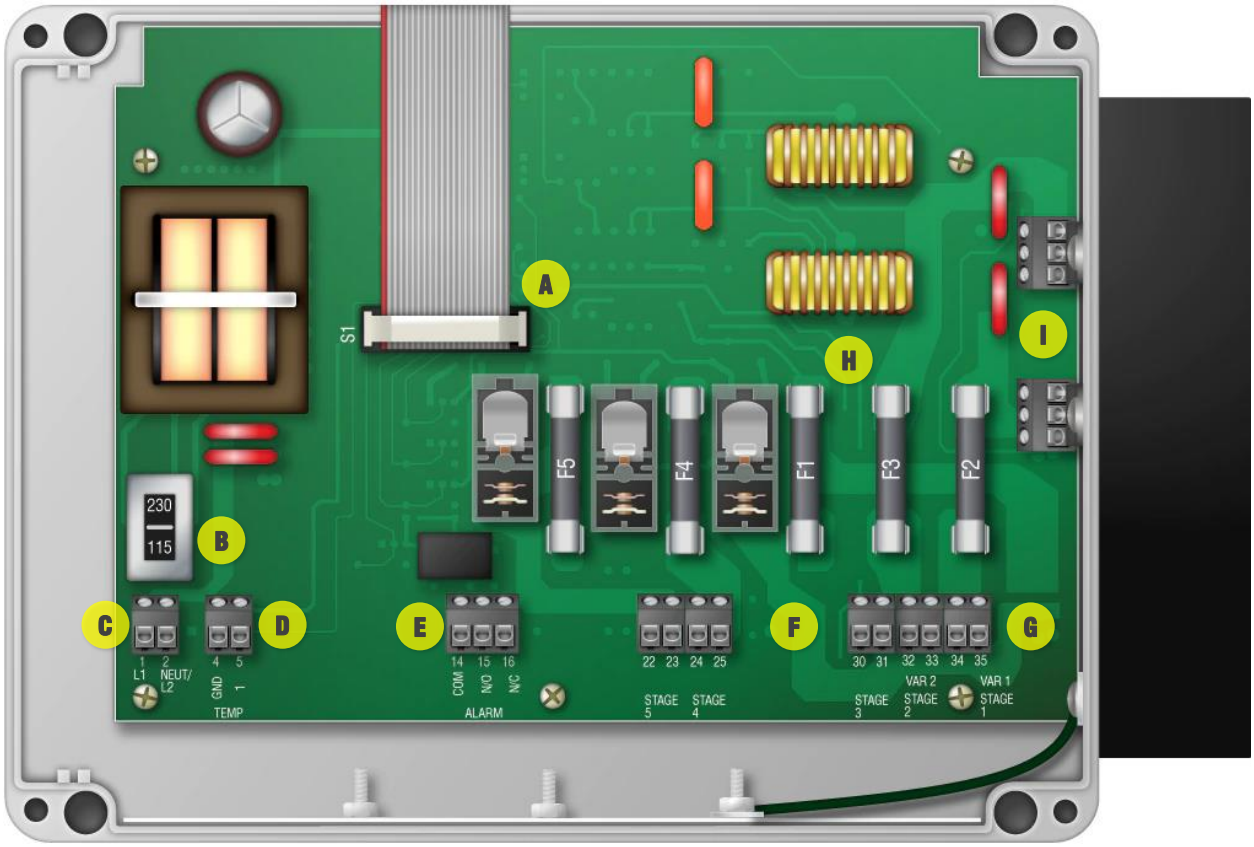
KCON-1T-2VAC-3F control board kit

This kit is a replacement for the control (bottom) circuit board on **FC-1T-2VAC-3F** controls.

Layout



Display cable (A)

Disconnect the cable during installation.
Reconnect it when done.

Voltage switch (B) ⚠

Set the switch to the correct line voltage.

Incoming power (C: 1, 2)

Connect the incoming power from the panel.

Temperature sensor (D: 4, 5)

Connect the temperature sensor.

Alarm relay (E: 14 - 16)

Connect an external alarm system or siren.

General-purpose relays (F: 22 - 25, 30 - 31)

Connect single-speed/stage heating/cooling equipment.

Variable stages (G: 32 - 35)

Connect variable speed fans.

Fuses (H)

Fuses F2 and F3 are for the variable stages.
F1, F4, and F5 are for the relays.

Triacs (I)

Installation

Follow the instructions in the order they are listed to replace the circuit board.

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

Label all wires and cables before disconnecting them.

Removing the damaged circuit board

1. Switch off the power to the control.
2. Remove the cover from the unit.
3. Disconnect the ribbon cable.
4. Label all wires and cables.
5. Remove all other wires from their terminals.
6. Remove the screws fastening the triacs to the heatsink.
7. Remove the five screws fastening the circuit board to the enclosure.
8. Remove the circuit board from the enclosure.
9. Wipe the thermal compound (white paste) and dust from the inside of the heatsink using a clean cloth.

Installing the new circuit board

1. Remove the new circuit board from the bag.
2. Place the voltage selection switch in the correct position.
3. Remove the caps from the triacs.
4. Place the new circuit board in the enclosure.
5. Fasten the circuit board to the enclosure using the five screws.
6. Fasten the triacs to the heatsink using the screws. Do not over tighten the screws.
7. Reconnect the wires to their correct terminals.
8. Verify all wires are properly connected to their correct locations.
9. Connect the ribbon cable.
10. Switch on the power to the control and verify it operates properly. If it does not operate properly, check the wires and cables. If it still will not operate properly, contact your dealer.
11. Fasten the cover to the enclosure using the four screws.