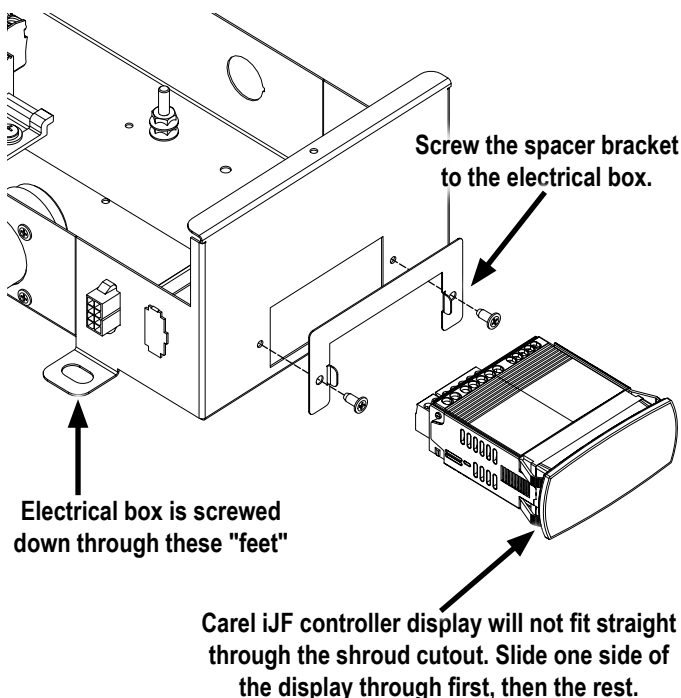# CONTROLLER CONVERSION: FROM CAREL IR33+ TO CAREL IJF

The Carel IR33+ controller is no longer available from the manufacturer. These instructions show how to convert a Zero Zone display case from an IR33+ to a Carel iJF controller. The wiring is not exactly the same from terminal to terminal. Rewire the case according to these instructions.

⚠ **CAUTION!** DISCONNECT POWER TO THE CASE BEFORE SERVICING ELECTRICAL COMPONENTS TO AVOID PERSONAL INJURY AND DAMAGE TO THE UNIT.
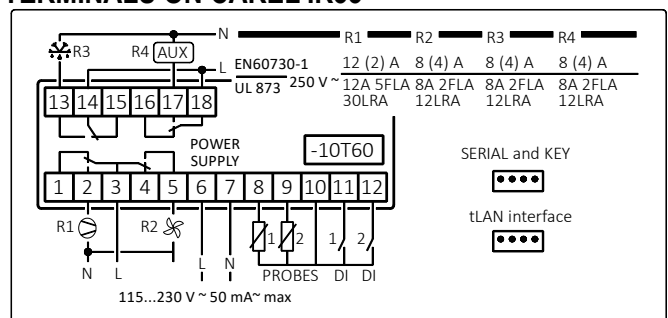
1. Unscrew the electrical box from the top of the case and move back from the shroud. Open the box.

2. Unclip the IR33+ controller from the box and disconnect the wires from the IR33+ terminals.

3. Pull the IR33+ out of the electrical box from the front.

4. Screw the spacer bracket to the electrical box around the opening for the controller display as shown.

5. Put iJF controller into the electrical box from the front.

6. Connect the wires to the iJF terminals Refer to the from-to lists to rewire the terminals from the IR33+ to the iJF controller. Use the list that corresponds to your case temperature.

7. Check that all electrical connections are secure. Close the electrical box.

8. Move the electrical box to the shroud so the iJF controller display goes through the shroud cutout. Slide one side of the display through the shroud at an angle, then straighten and center the display.

9. Screw the electrical box to the top of the case.

10. Restore power to the case.

11. Refer to the Hybrid™ I&O Manual (66-0034) for steps to set and verify controller parameters. If parameters need to be changed, contact Zero Zone technical support. Ensure proper case operation before leaving.

Medium Temp Cases	
FROM	**TO**
Carel IR33+	**Carel iJF**
2	NO 1
3	C1
6	L
7	N
8	S1
10	GND

Low Temp Cases	
FROM	**TO**
Carel IR33+	**Carel iJF**
2	NO 1
3	C1
5	NO 3
6	L
7	N
8	S1
9	S2
10	GND
13	NO 2
14	[unused, cap off]

Screw the spacer bracket to the electrical box.

Electrical box is screwed down through these "feet"

Carel iJF controller display will not fit straight through the shroud cutout. Slide one side of the display through first, then the rest.

TERMINALS ON CAREL IR33+

TERMINALS ON CAREL iJF

NO 1 EN:10(6)A, UL:16A 8FLA 48LRA
NO 2 EN:8(3)A, UL:8A 2FLA 12LRA
NO 3 EN:5(1)A, UL:5A 1FLA 6LRA
NO 4 EN:5(1)A, UL:5A 1FLA 6LRA

100-240Vac