

Relay Board Resistor Connector Plug Troubleshooting Kit

Objective:

The purpose of this kit is to help identify whether a relay board is at fault or if the fault is simply a temperature probe. The kit can be used on any COMBI oven or HydroVection oven in the same manner. As a result, some of the instruction is generic.

1. Shut off POWER to the oven by toggling off the circuit breaker on the control panel.
2. Depending on which model oven, drop the control panel down or slide it out. This provides access to the relay board.
3. Disconnect the J41 and J8 connectors on the relay board.
4. Plug in the two connector plugs provided. They are the same, so placement does NOT matter.
5. Once the plugs are installed, turn the POWER on by toggling the circuit breaker on the control panel.
6. Enter Diagnostic Mode: Depending on which oven and control type you have this procedure will be different. See below. **Note: If the oven does not have a boiler, the "Boiler" probe will not be present.**
7. See Page 2 for pictures of the proper connectors.

MenuSelect Control:

1. Press the "MAINT" key.
2. Rotate knob to "SERVICE" and push knob.
3. Enter the Service code: 7378 & press knob.
4. Rotate knob to "DIAGNOSTIC INPUT" and press knob.
5. Depending on which oven type you have, depress certain keys:
 - a. FAN = Cavity
 - b. PROG = Cooling Fan
 - c. 1 = Quench
 - d. 4 = Core Probe (Meat Probe)
 - e. 7 = Boiler

6. As the buttons are pressed, a value of between 184F and 190F should be displayed. This is verifying the relay board's functionality with temperature probes.
7. Once all readings have been verified, exit "Diagnostic Inputs" by pressing the knob once, then pressing the "ESC" key twice.
8. Remove the two connector plugs and reattach the oven's plugs.

Manual Control:

1. Place mode switch to "OFF" position.
2. Press and hold the TIMER knob for 3 seconds and release.
3. Enter the Service code: 7378 using the TIMER knob.
4. Rotate the TIMER knob to "DIAG" and press the knob; this being the Diagnostic Inputs mode.
5. Rotate the TIMER knob to the appropriate D-#'s to verify the temperature probe values:
 - a. D-22 = Cavity
 - b. D-23 = Cooling Fan
 - c. D-24 = Quench
 - d. D-25 = Core Probe (Meat Probe)
 - e. D-26 = Boiler
6. As the knob is pressed, a value of between 184F and 190F should be displayed. This is verifying the relay board's functionality with temperature probes.
7. Once all readings have been verified, exit "Diagnostic Inputs" by rotating the knob to "END", pressing the knob, then again rotating the knob to "END" and pressing the knob again to exit.
8. Remove the two connector plugs and reattach the oven's plugs.



J8 PLUG

J41 PLUG



PLUG CONNECTORS
PROVIDED

OVEN PLUGS
DISCONNECTED