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**INSTRUCTIONS TO REPLACE
 INVENSYS TEMPERATURE
 CONTROL WITH FAST G6
 TEMPERATURE CONTROL ON
 COCE/CO11E OVENS**

This Field Retrofit Kit contains the following:

QUANTITY	PART NUMBER	DESCRIPTION
1	U4132A	Instruction sheet
1	U4203QA	Wire diagram
1	N/A	1/4" Drill bit
1	M0110A	Thermostat, G6, F.A.S.T.
1	M1555A	RTD temperature probe
1	Q4021A	Clip for RTD probe
2	Q1407A	#10 X 1/2" hex, slotted screw
2	Q1001A	6-32 X 1/4" slotted screw
2	Q3058A	#6 internal tooth washer
2	P1085A	1/4" X .032 fast on female connector with insulated shank
3	P1116A	Terminal, twin adapter
6	P1106A	Cable tie
1	U1428A	Temperature overlay
1	N/A	Jumper wire

WARNING: Shut off the power to the oven, use lock-out, tag-out. Do not attempt to perform this service unless the oven has been disconnected from the power source. Injury or death may occur if the power remains connected.

- 1) Remove the side access cover screws and cover and put aside.
- 2) Remove the front control panel as follows:
 - A) Remove the two upper and two lower screws and put aside.
 - B) Pull the knob located at the top of the control panel to remove the panel.
- 3) Remove the temperature probe from the inside of the oven. Put the screws aside.
- 4) Use the 1/4" drill bit (provided) to enlarge the hole where the old probe was removed. **Do not enlarge the holes that the probe brackets were removed from.**
- 5) Insert the new RTD probe (provided) by passing the wires from the inside of the oven through the hole that was just enlarged, to the control panel area. Use the new probe bracket (provided) and place it over the probe. Position the probe and bracket so the hole in the bracket is lined up with the hole the previous probe bracket was fastened to. Install the screw previously removed to hold the probe and bracket in place. Insert the other screw previously removed to fill the hole that is no longer used. (new screws are provided in the kit, if needed)

- 6) Strip the insulation from the new probe leads and attach the two ¼" insulated connectors (provided) to the wires. Be sure to crimp the connector properly to hold the wires tight without damaging the wires.
- 7) Remove the temperature control knob from the temperature control shaft and put aside. Note that there are two screws on the knob that need to be loosened.
- 8) Remove the temperature control rheostat from the front panel.
- 9) Cut the tie wraps along the wire harness to free the temperature control wires from the harness. **Be careful not to cut any wires or insulation on wires when cutting the tie wraps.**
- 10) Remove the two #6 mounting screws and washers from the new FAST G6 temperature control board and set aside. Insert the new controller into the front control panel from behind the panel so the shaft comes through the hole in the panel. Position the board so the six (6) terminals on the board face the outer right side of the oven. The two probe connectors should be toward the oven chamber. Fasten the control board bracket to the control panel with the two screws and washers removed previously.
- 11) Carefully install the new temperature overlay on the front panel.
- 12) Remove all wire connections from the existing temperature control board.
- 13) Remove the two screws that hold the old temperature controller to the oven and remove the temperature controller. It may be necessary to cut more tie wraps to remove the controller. **Be careful not to cut any wires or insulation on wires when cutting the tie wraps.**

REFER TO WIRING DIAGRAM U4203QA (PAGE 4) FOR THE FOLLOWING CONNECTIONS

- 14) Connect the black wire (#2) from the bottom left of the 3 pole connector to A1 on the contactor block.
- 15) Place a brass "piggyback" connector (supplied) onto terminals T7, T8, and T10.
- 16) Attach a jumper wire (supplied) from terminal T10 to terminal T6 on the temperature control board. Attach the wire from the rotary switch terminal P1 to terminal T10 on the control board.
- 17) Attach wire #9 from T8 on the control board to the top left connector on the terminal block. Attach one wire from the heat indicator lamp to the other connection on T8.
- 18) Attach the other wire from the heat indicator lamp to T7 on the control board. Connect the wire from A2 on the contactor to the other terminal on T7.
- 19) Remove the unused wire from the old control board to the door switch. Do not use this wire.
- 20) Connect the two leads from the RTD probe to the two terminals identified as "Probe" on the new control board. It does not matter which lead is connected to which terminal.

- 21) Attach tie wraps to maintain a neat appearance and to prevent wires from catching in places that could cause a short. Be sure the temperature probe wires do not contact the door latch.
- 22) Carefully place the front control panel back into position. Make sure that none of the wire connections on the new temperature control board contact any internal parts of the oven. Replace the four screws previously removed.
- 23) Replace the side access cover and screws previously removed.
- 24) Turn the shaft on the temperature control fully counterclockwise. Install the control knob so the indicator line points to the top right corner of "C" on the overlay. Lightly tighten one set screw to hold the knob in place for test.
- 25) Restore power to the oven.
- 26) Place a probe from a digital thermometer inside the oven next to the new temperature probe.
- 27) Turn the oven on and make sure the blower and the light work. The amber temperature lamp should come on. This will go out after a few minutes and the oven will be warm (not hot).
- 28) Set the blower speed on the "low" setting and turn the temperature knob to 350° F. Allow the oven to cycle at least three times. Record the temperature when you hear the relay turn off and when you hear the relay turn on again. There should be a 10° difference between the two. The middle temperature between those two is the true oven temperature.
- 29) If the line on the knob does not point to that temperature, CAREFULLY loosen the set screw. Pull the knob straight out (do not turn the shaft) and replace it straight on with the line pointing at the actual oven temperature. Tighten one set screw and repeat the temperature measurement to make sure the knob points to the true oven temperature. Adjust as needed.
- 30) Once the knob is set at the correct temperature, tighten both set screws to prevent any further movement.
- 31) Increase the temperature to 425° F and verify that the oven cycles properly at that temperature.

WIRING DIAGRAM 208/240V - G6 COCE & CO11-E

P/N U4203QA

