MCO Control Conversion Installation Instructions

Kit 4522523, 4522593 IM 450/410 TO IM 200 GAS/ELEC

- Remove IM 450 control panel, control harness, then disconnect temp probe wire and remove relay board, relay board harness, control transformer, door switch bracket with switches, and door switch harness.
- Obtain the IM 200 control panel from the kit. Plug the control harness directly into the oven main harness (15pin molex)
- Plug the temperature probe wires into the IM 200 control board (terminals T4 and T5 on board).
- Mount new door switch bracket assembly and connect wiring as shown on the wiring diagram included with the kit.

Kit 4518191, IM 200 TO 450 GAS

- Remove the IM 200 control panel, disconnecting it at the 15 pin and 4 pin Molex connectors in the wiring harness and disconnect the temperature probe wires from the control board.
- Remove the door switch assembly and wiring harness.
- Obtain the following parts from the kit
  - ✓ Nylon PCB Spacer, 1767901, qty 4.
  - ✓ Bracket - Relay Board Assy, 1916801, qty 1.
  - ✓ Transformer 120V to 24VAC, 1917199, qty 1.
  - ✓ #10 Sheet metal screw, 8002107, qty 4.
  - ✓ Relay Bracket Slide, 1911301, qty 1.
- If the oven being converted was built before 3/14/03 the relay board and transformer will need to be assembled on the bracket, 1916801, as shown in below in Fig 1. Once assembled, attach the assembly to the oven partition by sliding it behind the relay bracket slide holding the ignition bracket on and attach the second relay bracket slide to retain the top of the bracket.

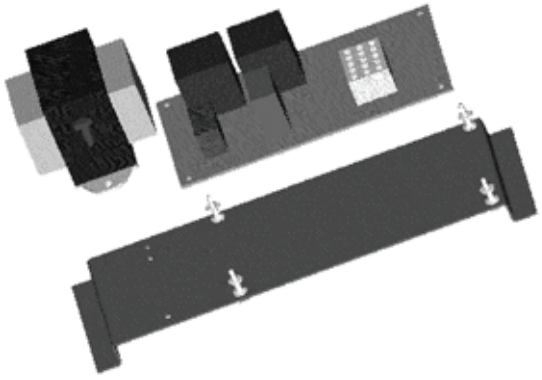

Fig 1, Relay Board Assembly

- If the oven was built after 3/14/03 eliminate the bracket included with the kit. There is a bracket in the oven that will be used. This bracket is replaces the separate ignition module bracket and relay board assembly bracket. As shown below in fig 2, insert the Nylon PCB Spacers into the four holes labeled "A" and attach the relay board. Use the #10 sheet metal screws to attach the transformer using the two holes labeled "B.

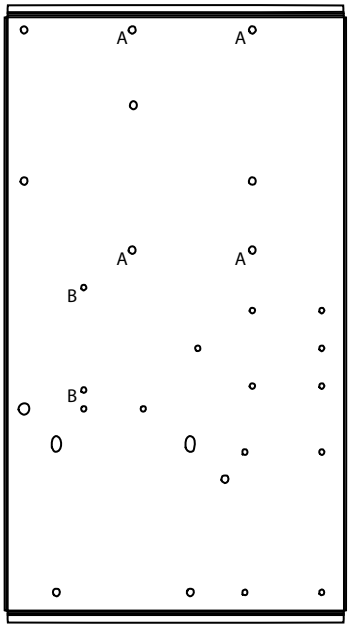

Fig 2, Combination Bracket.

- Mount new door switch assembly.
- Connect the relay board wiring harness and door switch harness as shown in diagram 1949501 and connect the temperature probe. Mount Hi limit to redundant valve bracket. Remove jumper from terminals 24 and 18. Connect 24 and 18 to hi limit
- Obtain the IM 450 control panel from the kit. Connect the control to the relay board using harness 1905901.

Kit 4518192, IM 200 TO IM 450 ELEC

- Remove the IM 200 control panel, disconnecting it at the 15 pin and 4 pin Molex connectors in the wiring harness and disconnect the temperature probe wires from the control board.
- Remove the door switch assembly and wiring harness.
- Obtain the following parts from the kit
  - ✓ Nylon PCB Spacer. 1767901. qty 4.
  - ✓ Bracket - Relay Board Assy. 1916801. qty 1.
  - ✓ Transformer -208/240V TO 24VAC, 1917198, qty 1.
  - ✓ #10 Sheet metal screw, 8002107, qty 6.
  - ✓ Relay Bracket Slide, 1911301, qty 2.
- If the oven being converted was built before 3/14/03 the relay board and transformer will need to be assembled on the bracket, 1916801, as shown in above in Fig 1.
- If the oven was built after 3/14/03 eliminate the bracket included with the kit. There is a bracket in the oven that will be used. This bracket is replaces the separate ignition module bracket and relay board assembly bracket. As shown above in fig 2, insert the Nylon PCB Spacers into the four holes labeled "A" and attach the relay board. Use the #10 sheet metal screws to attach the transformer using the two holes labeled "B."
- Connect the relay board wiring harness and door switch harness as shown in diagram 1949504, and connect the temperature probe. Mount hi limit to partition side. Remove jumper from terminals 24 and 18. Connect 24 and 18 to hi limit.
- Obtain the IM 450 control panel from the kit. Connect the control to the relay board using harness 1905901.