

# INSTRUCTION SHEET

16200186

**Description:** High Speed Oven Interlock Switch Reconfiguration

**Contents:**

- |  |                               |
|--|-------------------------------|
| 1 - Black Jumper Wire Harness W/Piggyback Terminal |                               |
| 1 - 25A Fuse                                       | 1 - Interlock Switch Assembly |
| 1 - Wire Ties                                      | 1 - Wire Tie with Push Mount  |
| 1 - Black Wire Extension                           | 3 - Wire Nuts (grey)          |
| 1 - Red Jumper Wire Harness                        | 1 - Wire Nut (blue)           |
| 2 - ¼ inch Crimp Spade Connectors                  | 1 - Schematic                 |
| 1 - Primary Switch & Seal                          | 1 - Wiring Diagram            |
| 1 - Snubber  | 1 - Power Relay               |



## WARNING

To avoid risk of electrical shock, personal injury or death; disconnect electrical power and discharge capacitors before servicing.

The purpose of this kit is to reduce nuisance open fuses and by reconfiguring the interlock switch system and eliminating the monitor relay board. Please read through these instructions prior to service.

1. Unplug oven and remove both side panels
2. On right side of oven:
  - a. Unplug the J2 connector (red and black wires) from the monitor relay board
  - b. Cut black wire BK82 and red wire RD80 going to the Monitor Relay Board off at the power relay connectors leaving just a single black BK32 and a single red wire RD35 connected to relay. Discard connector and wiring.
3. Replace the Power Relay and Snubber



UNPLUG

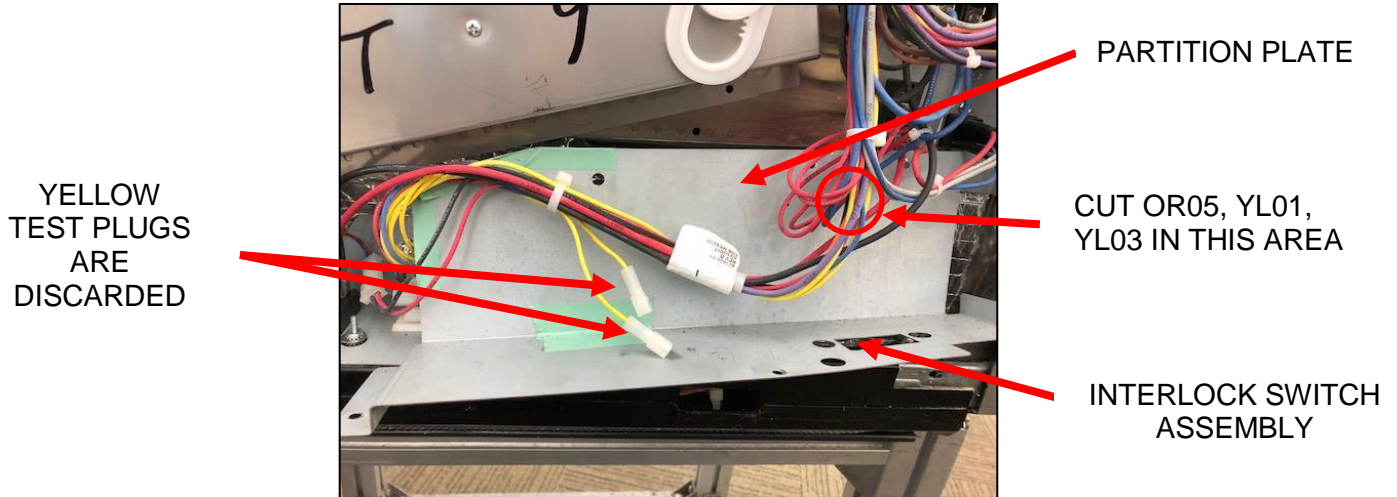


POWER RELAY

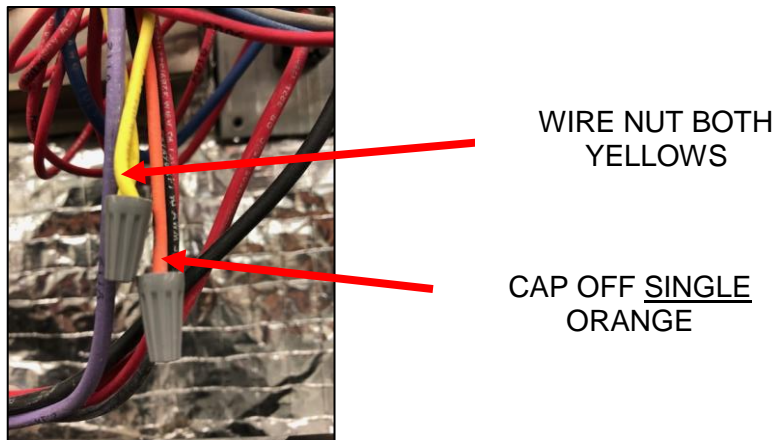
SNUBBER

ON POWER RELAY,  
CUT BK82 and RD80  
GOING TO MONITOR  
RELAY BOARD

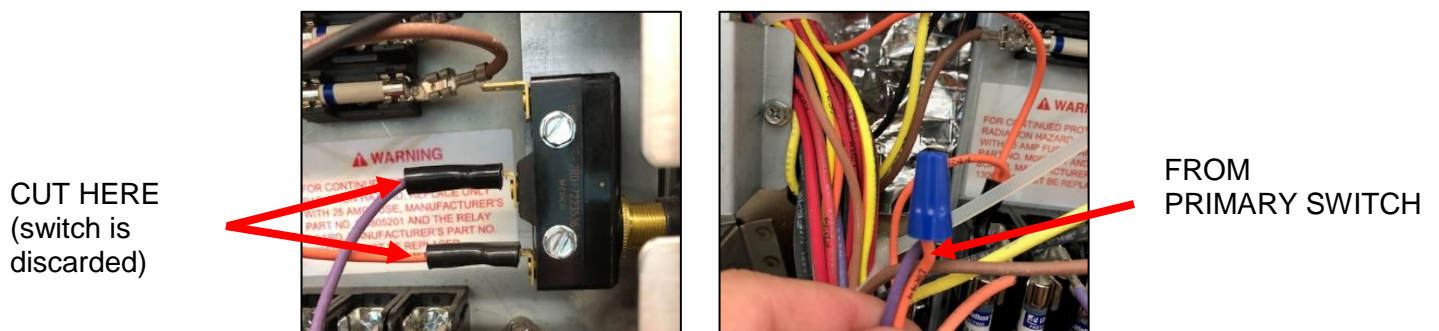
4. On left side of oven:
  - a. Remove Front Partition Plate and set aside.



- b. Cut wire ties and Remove Interlock (Secondary/Monitor) Switch Assembly, Cut the blue and red wires at the switch connectors. (yellow and orange wires can remain installed as they are discarded)
- c. Cut and Strip yellow wires YL01, YL03, and orange OR05 in the area as shown above. Using Grey Wire Nuts, connect Yellow wires together and cap the single Orange wire (see below). Discard Switch Assembly (including the Yellow Test Wires).



- d. Cut the Orange wire and violet wire VT40 Wires from Primary Switch, Cut off terminals, strip wires and connect together using provided Blue Wire Nut.
- e. Remove and Replace the Primary Switch with new Switch and Seal Provided.



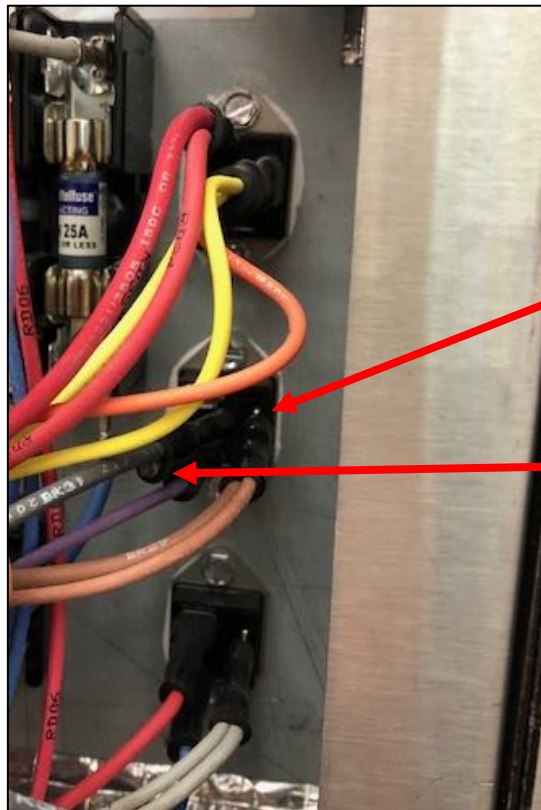
- f. Remove from wire ties and strip red wire RD06 and blue wire BU07 removed from interlock switch assembly. Crimp ¼" Spade Connectors to each end.
  - i. Attach the newly crimped wires RD06 and BU07 to the Primary Switch as shown.
    - IMPORTANT: The center terminal of the Primary Switch is not used.**

CENTER TERMINAL  
NOT USED



RED AND BLUE WIRES  
FROM INTERLOCK  
SWITCH ASSEMBLY

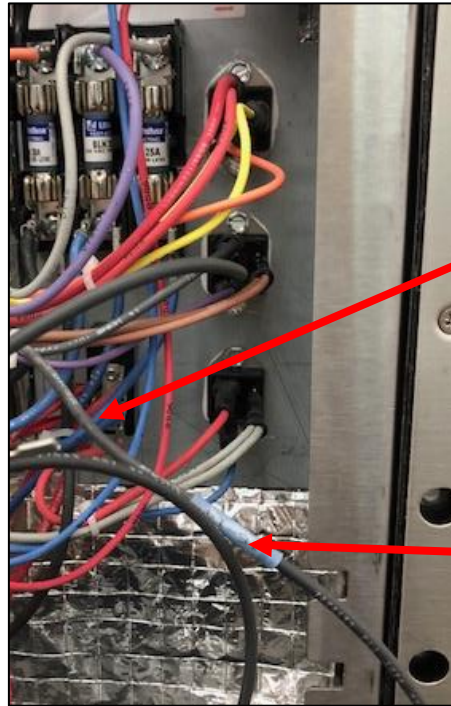
- g. Remove double black wires BK31 and BK32 from Magnetron 2 triac (middle triac). Cut BK32 off connector as shown and strip BK32.



MAGNETRON 2 (LEFT) TRIAC

CUT OFF BK32. LEAVE  
BK31 CONNECTED

- h. Strip, then crimp BK32 to provided black wire extension as shown



BK32

BLACK WIRE  
EXTENSION  
(SINGLE WIRE)  
GOES TO LARGER  
OF TWO  
SWITCHES

- i. Install BK31 to the Black Jumper Wire Piggyback Terminal and reinstall to Magnetron 2 triac



BLACK JUMPER WIRE  
HARNESS w/PIGGYBACK  
TERMINAL & BK31. GOES  
TO BOTH SWITCHES

MAGNETRON 2  
TRIAAC

- j. Remove double red wires RD34 and RD35 from Magnetron 1 triac (top triac) and connect to piggyback terminal on the Red Jumper Wire Harness.

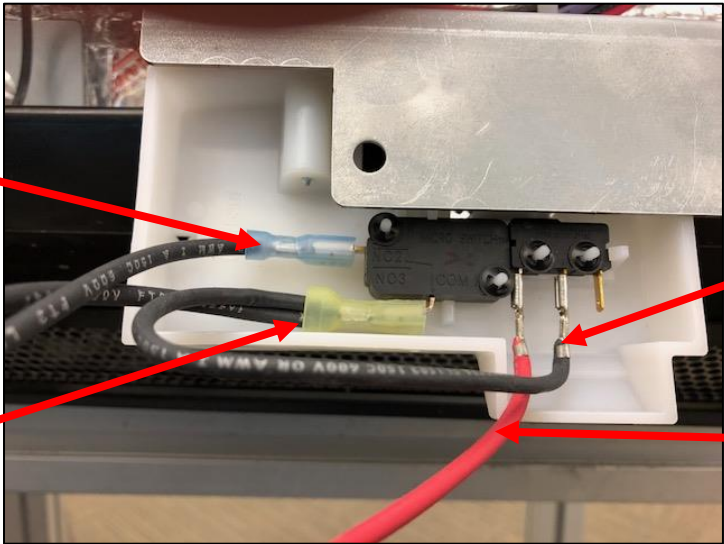


RD34 & RD35  
ATTACH TO RED  
JUMPER WIRE.  
GOES TO  
SMALLER OF TWO  
SWITCHES

MAGNETRON 1  
TRIAC

If your kit was not prewired from the factory, below are the wiring instructions:

- k. Install ¼" terminal end of the Black Wire Extension (from 3g above) to the secondary switch (larger of the two) as shown below.
- l. Install the ¼" terminal end with tail of Black Wire Jumper Harness (from Magnetron 2 triac) to other terminal on secondary switch as shown below and install its tail the monitor switch's middle terminal as shown below.
- m. Install the end of the red wire jumper harness to the monitor switch's terminal CLOSEST to the secondary switch as shown below.



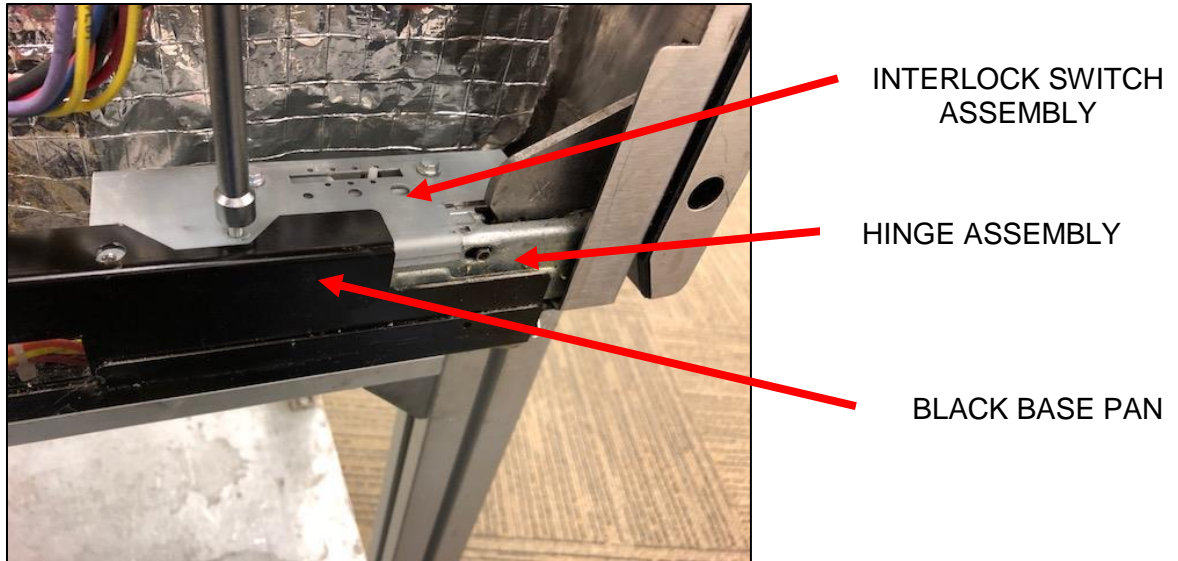
FROM BK32  
POWER RELAY  
(SINGLE WIRE)

FROM  
MAGNETRON 2  
TRIAC (TAIL)

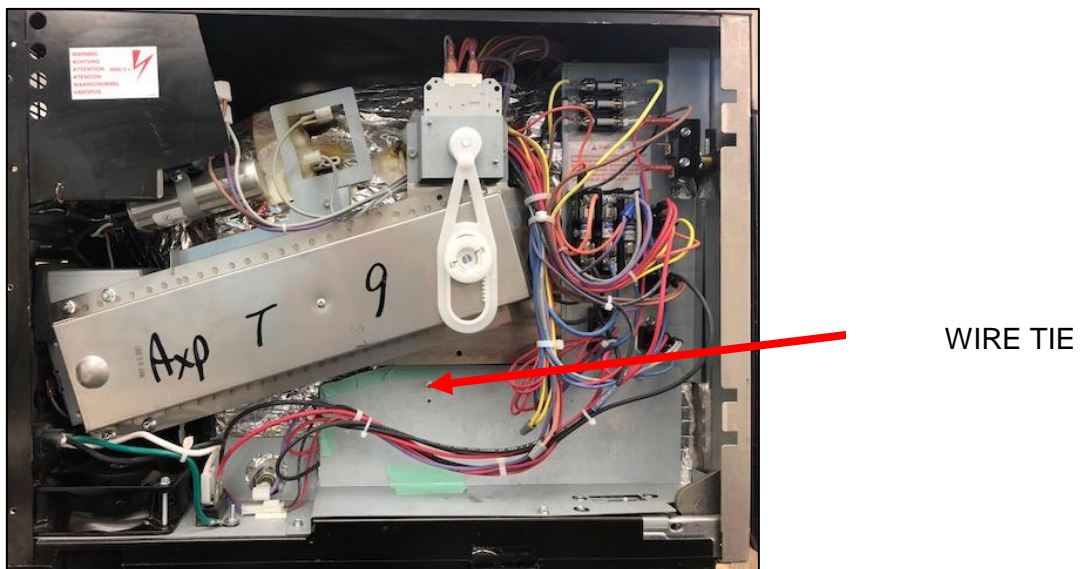
FROM  
MAGNETRON 2  
TRIAC

FROM  
MAGNETRON 1  
TRIAC

- n. With the door closed, firmly slide install the interlock switch assembly back into position and secure with ¼ inch head screw. **IMPORTANT: Interlock bracket fits INBETWEEN the black painted base pan and the hinge.**



- o. Install Wire Tie to the new wires running to interlock switch assembly and clip wires to the Front Partition Plate and reinstall Front Partition Plate. Ensure wiring does not rest upon any heated surface.



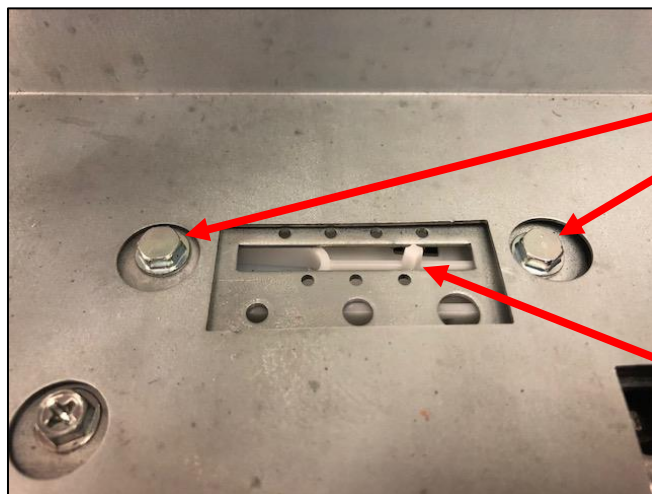
- p. Check Interlock Switch Assembly adjustment by taking an ohmmeter reading at TRIAC 1 and TRIAC 2.



DOUBLE RED  
TO DOUBLE BLACK

1. DOOR SHUT = OPEN
2. CLOSED WHEN DOOR OPENED 1/2in (13mm)

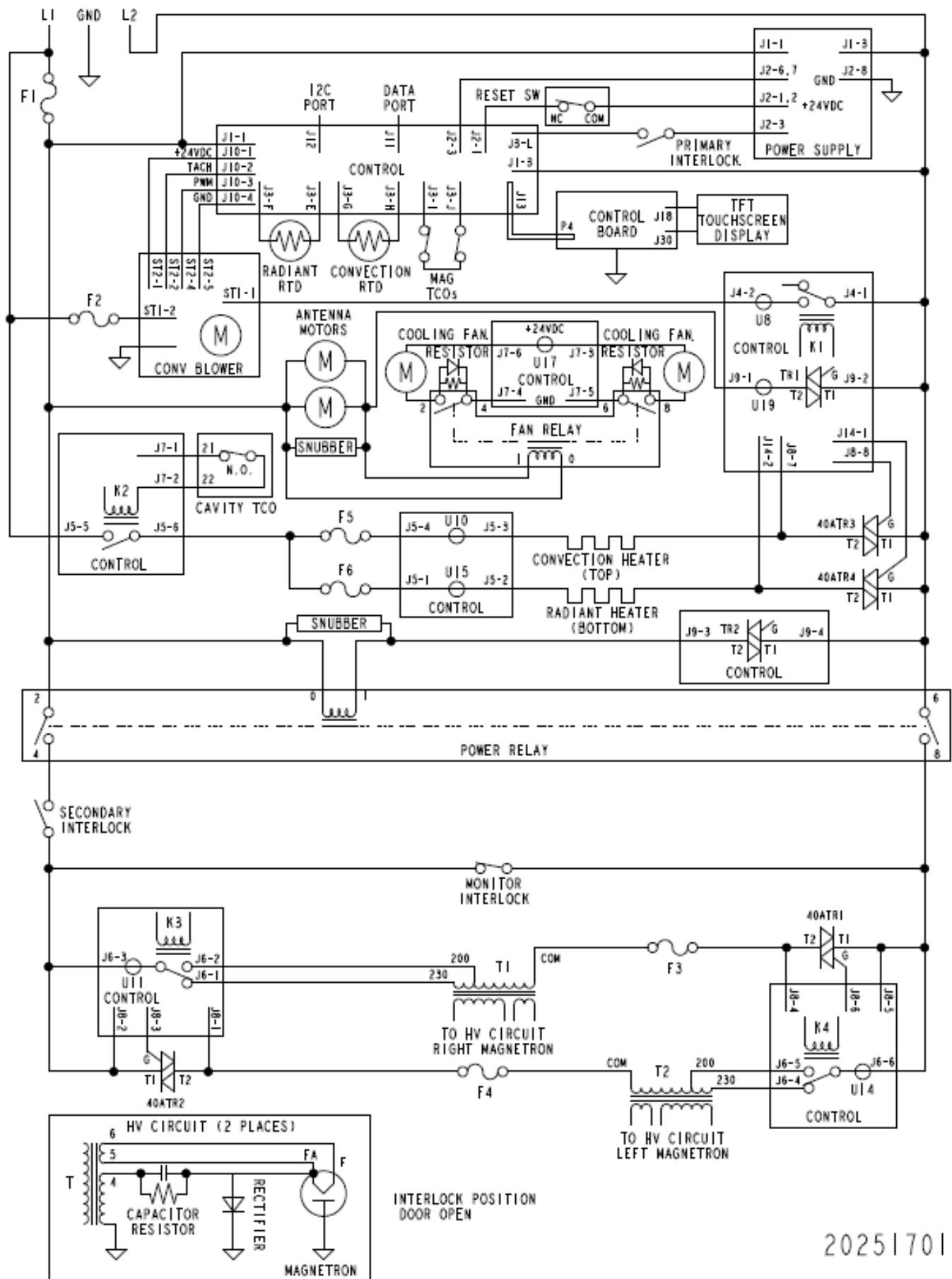
- q. Should switch need adjustment, loosen  $\frac{1}{4}$  head screws on either side of the adjustment tab, slide tab ONE POSITION, retighten screws and retest.



ADJUSTMENT  
SCREWS

ADJUSTMENT TAB

- r. TEST OVEN FOR PROPER OPERATION



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