

Instruction Sheet

Follow these instructions to install OIB Sensors in the FilterQuick Touch Gas fryers.

Tools Required:

- 3/8" Extension for a Ratchet (15")
- 3/8" Ratchet
- O2 Sensor Socket
- 1/4" Socket Set
- 1/4" Nut Driver
- 1/4", 5/16", 7/16" for drill/driver

1. Drain the oil from the affected frypot to the filter pan.
2. Disconnect power from the electrical power supply.
3. Remove the fryer from under the hood to gain access to the rear of the fryer.
4. Remove the lower rear panel from the fryer (see Figure 1). It may be necessary to remove the basket lift if installed.
5. Locate the VIB board underneath the frypot associated with the OIB sensor installation (see Figure 2).
6. Carefully disconnect the J1 20-pin harness from the VIB board (see Figure 3).
7. Locate the new VIB harness in the kit. Orient the connector removed in the previous step and the connector in new harness in the same orientation, with the lock clasp towards the top (see Figure 4).
8. Use a small screwdriver or object to press down on the lock tab, towards the center of the connector and gently pull on the red and yellow probe wires to remove them from the connector disconnected in step 6 (see Figure 5).

Subject: 8263847 OIB Sensor Installation Kit Instructions

Models affected: FilterQuick Touch Gas Fryers (FQG30-T) without OIB Sensors

In This Kit

Part #	Description	Qty
10881665P	BOX, FQ/LOV-T 120V FV CONTROL	1
10881885P	120V OIB SENSOR ASSY	1
8075807	HARNESS, DV VIB W/OIB	1
W77C509	WIRE 77C 01 8.0 10 58 (BLACK WIRE)	1
8090360	SCREW, #8X3/8 TYP B	4
8090361	SCREW, DRILL #8X1/2	12
8090412	SCREW, #10-1/2	6
8090417	NUT, FLANGE 1/4-20	6
8090437	SCREW, #10X3/8	6
8090449	SCREW, #10X1/2 PHIL TRUSS HEAD	4
8140015	TY WRAP	6
8158000	LOCTITE 567 TUBE 6ML	1
8198061	OIB INSTALLATION INST	1

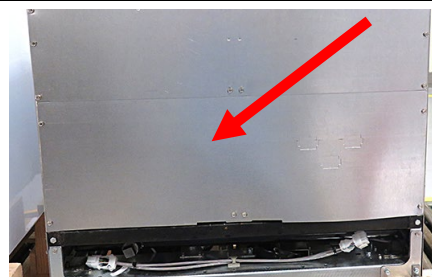


Figure 1

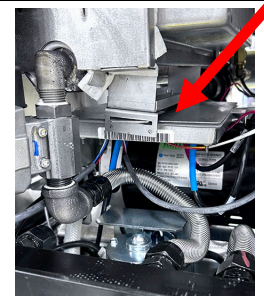


Figure 2

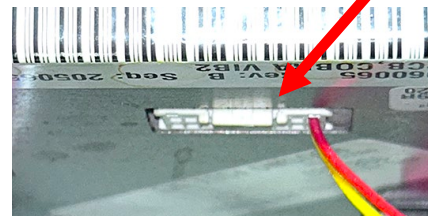


Figure 3

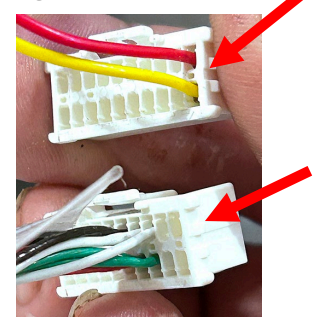


Figure 4

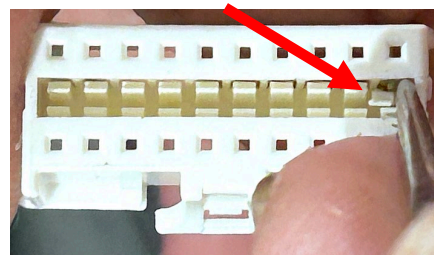


Figure 5

9. With the flags **towards the outside** of the connector, insert the red and yellow probe wires into the same pin locations of the new connector (see Figures 6 & 7).

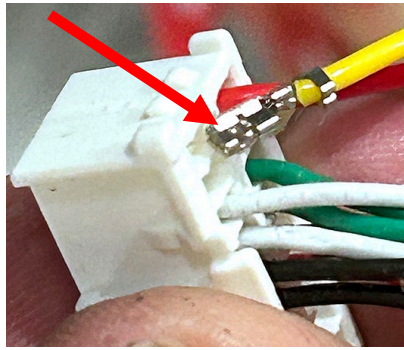


Figure 6

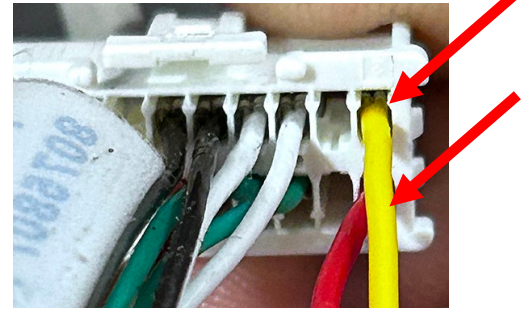


Figure 7

10. Gently tug on both wires to ensure they are locked into the connector.

11. Connect the new harness to the VIB board (see Figure 8).

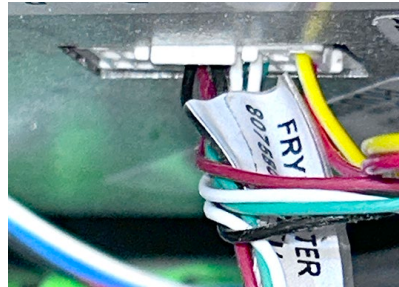


Figure 8

12. Use ty wraps to secure the harness to the VIB board and other harnesses. Route the other end to the front of the fryer (see Figure 9). Ensure the harnesses aren't touching flexlines or pump motor.

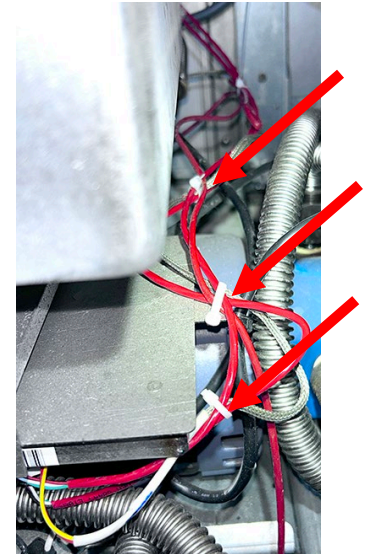


Figure 9

13. If a guard rail is installed, remove the acorn nuts, washer and plates on both ends of the guard (see Figure 10). If not, skip to step 15

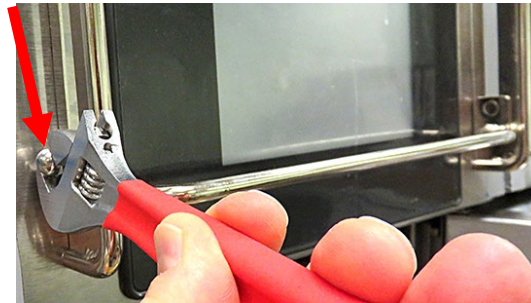


Figure 10

14. Slide one end of the guard up the rail at an angle until it can be removed (see Figure 11).

15. Remove the two Phillips head screws from the upper left and right corners of the controller (see Figure 12).

16. Slide the controller up to disengage it from the bezel (see Figure 13).



Figure 11

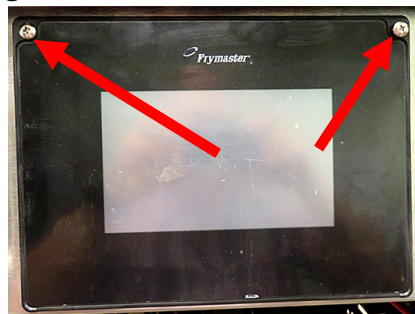


Figure 12

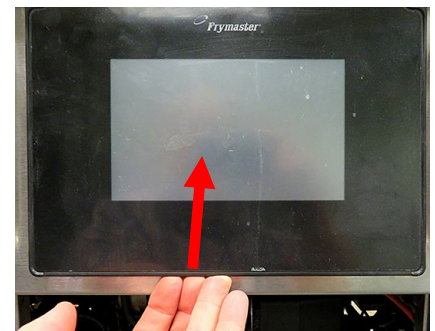


Figure 13

17. Lift the controller out from the bezel (see Figure 14).

18. Lower the controller and rest it on the bottom of the control box (see Figure 15). The black tether on the right will support the controller.

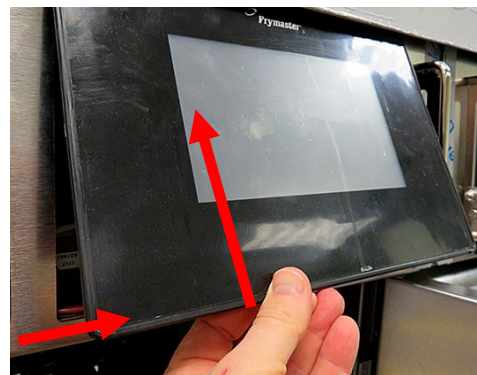


Figure 14

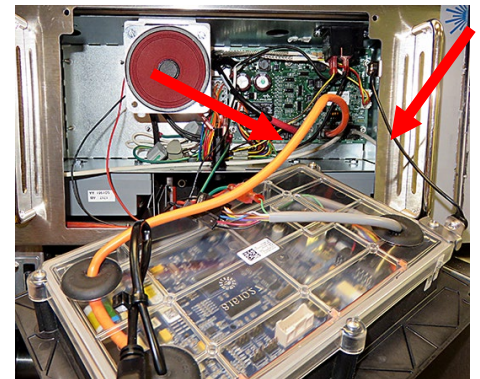


Figure 15

19. Disconnect the RJ45 cable from the SIB board **FIRST** (see Figures 15 and 16).
20. Disconnect the other cables from the connectors on the back of the controller marking their position for reassembly (see Figure 17).

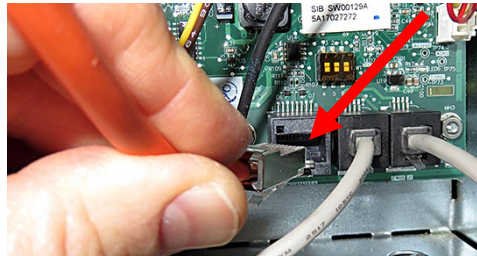


Figure 16

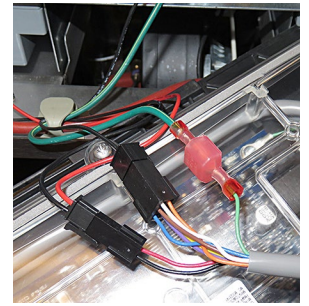


Figure 17

22. Remove the bezel by removing the two 5/16" screws on the bottom of the bezel (see Figure 19) and tilting the bezel up from the bottom and lowering towards the front of the fryer (see Figure 20).

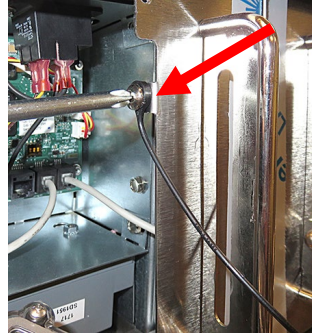


Figure 19

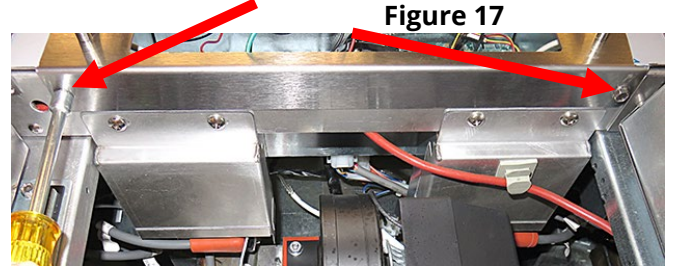


Figure 18

23. Open the doors of the fryer and locate the blower (see Figure 21).

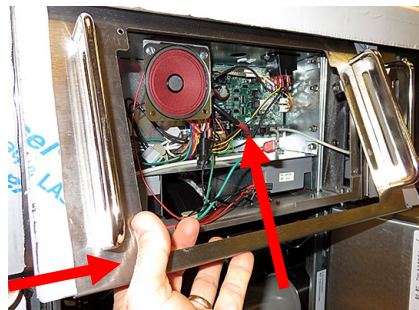


Figure 21

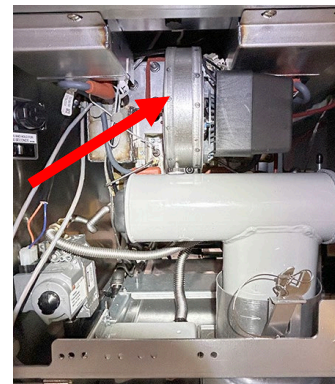


Figure 22

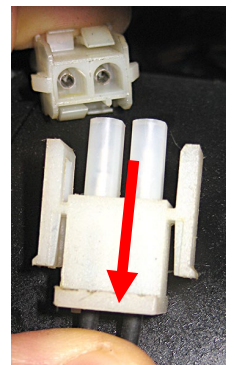


Figure 20

24. Disconnect the two (2) wire blower wiring harness (see Figure 22).

25. Use a 7/16" driver with extension to remove the four (4) nuts attaching the blower (see Figure 23).

Figure 23

Figure 24

Figure 25

26. Remove the blower.

27. Remove USB port assembly (see Figure 24), if replacing the left control box over the USB port or the JIB reset switch assembly (see Figure 25), if replacing the control box over the switch.

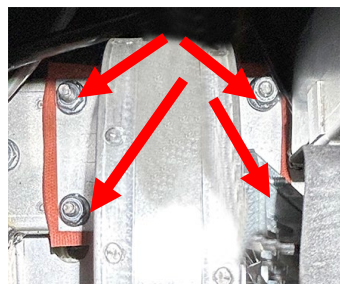


Figure 23



Figure 24



Figure 25

28. Remove the ignition module covers by removing the two (2) screws securing the cover (see Figure 26).

29. Remove the two screws attaching the ignition modules at the bottom of the control box (see Figure 27).

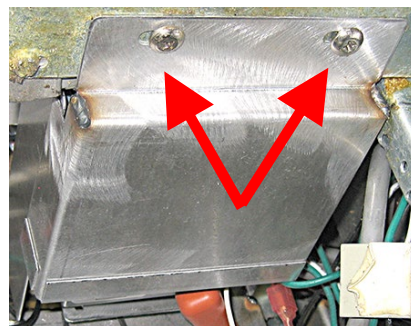


Figure 26

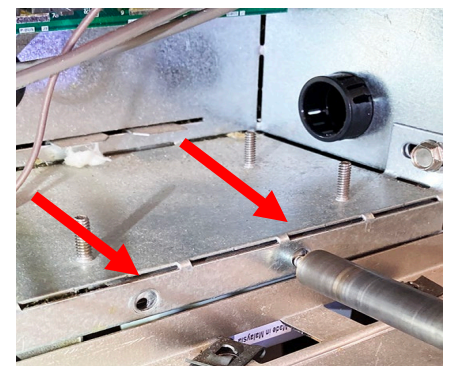


Figure 27

30. Slide the module towards the rear of the control box until it can be lowered.

31. Disconnect the harnesses and cables from the modules and set aside.
32. Reach up behind the component box and disconnect the 12-pin gray harness and 15-pin black harness from the rear of the component box (see Figures 28, 29 & 30).
33. Carefully disconnect the 3-pin ATO and 2-pin cook probes from the SIB board (see Figure 31).
34. Disconnect the P-Bus cable, CAN cables and resistor terminators, if present, from the SIB board (see Figure 32).
35. Gently pull the probe, P-Bus and CAN wires through the rear of the component box.
36. Remove the screws on both sides of the component box that attaching the component box (see Figure 33).
37. Gently lower the component box down and remove the box from the cabinet (see Figure 34).

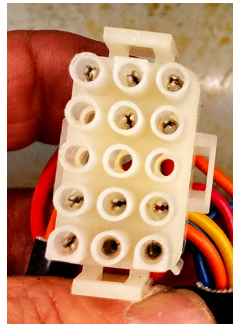


Figure 28

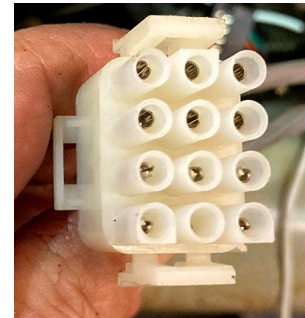


Figure 29

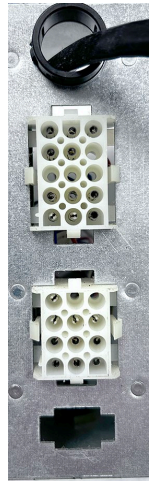


Figure 30

35. Gently pull the probe, P-Bus and CAN wires through the rear of the component box.
36. Remove the screws on both sides of the component box that attaching the component box (see Figure 33).
37. Gently lower the component box down and remove the box from the cabinet (see Figure 34).



Figure 33



Figure 34

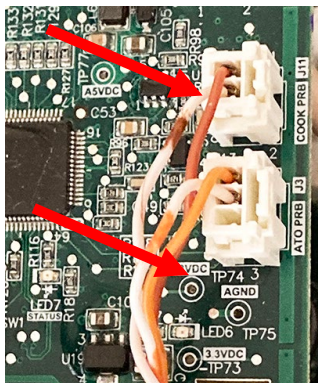


Figure 31



Figure 32

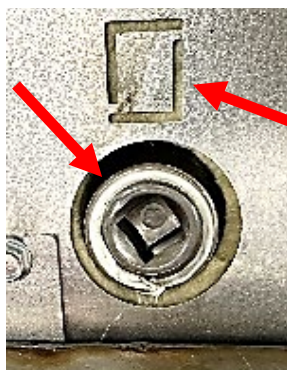


Figure 35



Figure 36

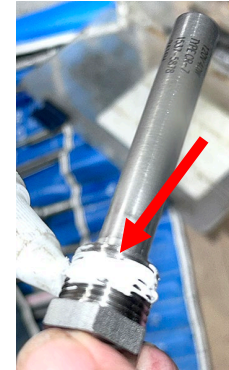


Figure 37

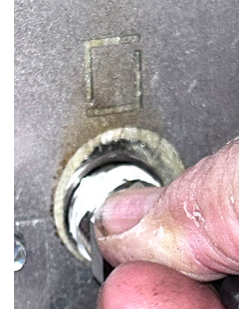


Figure 38

38. Locate the plug with an "O" above it (see Figure 35).
39. Using a 3/8" square extension, remove the plug (see Figure 36).
40. Apply Loctite® around the first several threads of the OIB (Oil Is Back) sensor (see Figure 37).
41. Insert the OIB sensor into the port marked with an "O" above it and tighten a few rotations (see Figure 38).
42. Using an O2 socket rotate the probe clockwise and tighten and torque to 54 ft lbs. (see Figures 39).
43. Remove the top screw from the insulation bracket next to the probe marked with a "T" (see Figure 40).
44. Mount the OIB sensor egg and bracket using the hold and screw from previous step (see Figure 41).



Figure 39



Figure 40

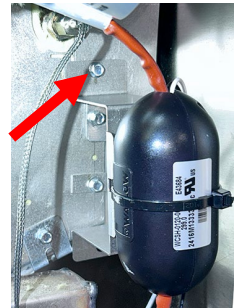


Figure 41

- 45. Insert the new control box into position and connect with a few screws (see Figure 42).
- 46. Reinsert the P-Bus and CAN cables into the control box and reconnect to the SIB board (see Figure 43).

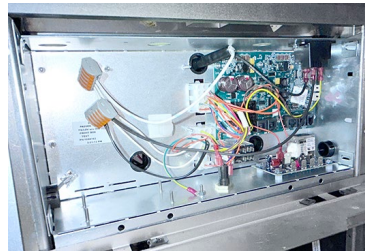


Figure 42

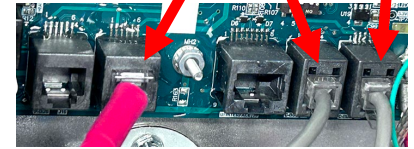


Figure 43

- 47. Insert the **two (2) BLACK** and **two (2) WHITE** wires from the OIB egg sensor through the lower control box opening, behind the time delay relay board (see Figure 44).

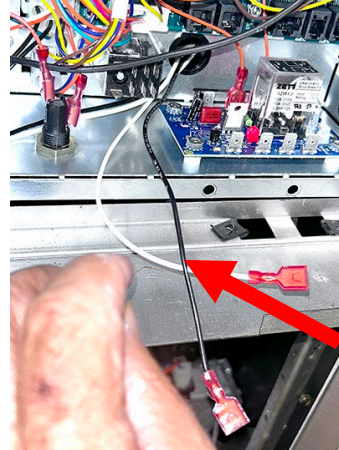


Figure 44

- 48. Attach the smaller black and white wires to the coil side of the time delay relay board (see Figure 45). Use the wiring diagram if necessary on the last page.

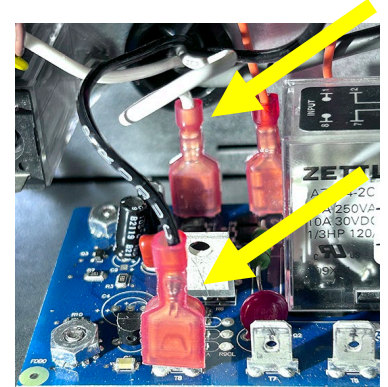


Figure 45

- 49. Locate the large **WHITE** wire from the OIB sensor with the stripped end. Insert it into the Wago snap connector, with the white wires, in the control box (see Figure 46).

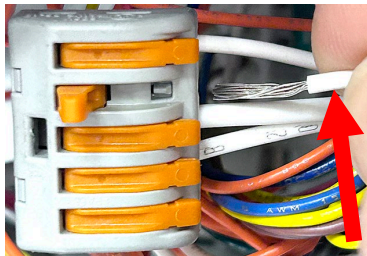


Figure 46

- 50. Locate the large **BLACK** wire from the OIB sensor with the **TERMINATED** end. Attach it to the clear OIB relay connector shown, in the control box (see Figure 47).

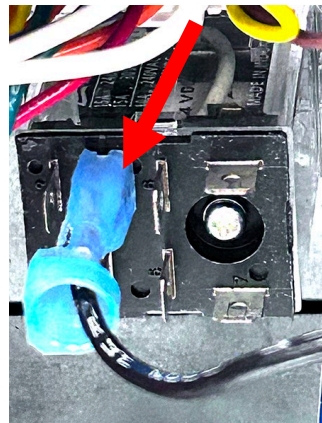


Figure 47

- 51. Insert the two wire harnesses from the VIB harness into the lower left rear opening in the control box as shown (see Figure 48).

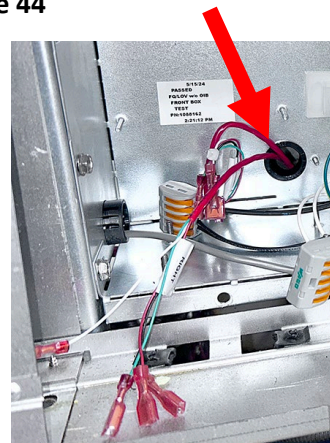


Figure 48

- 52. Zip tie up the harness labeled marked **LEFT** back and out of the way (see Figure 49).

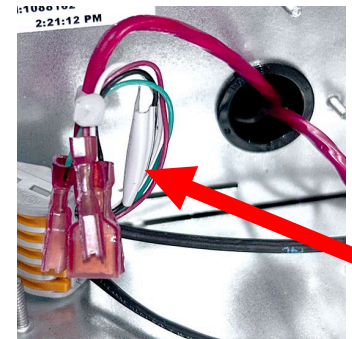


Figure 49

- 53. Connect the **RED** and **BLACK** wires from the VIB harness labeled **RIGHT**, to the coil side of the clear OIB relay connectors shown (see Figure 50).

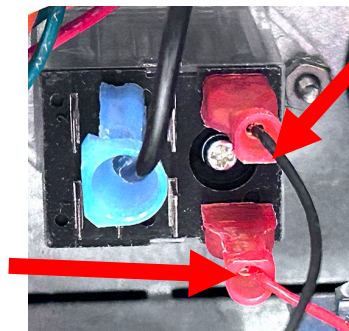


Figure 50

- 54. Connect the **GREEN** wire to T7 and the **WHITE** wire to T6, from the VIB harness labeled **RIGHT**, to the OIB Time Delay Relay Board connectors shown (see Figure 51).

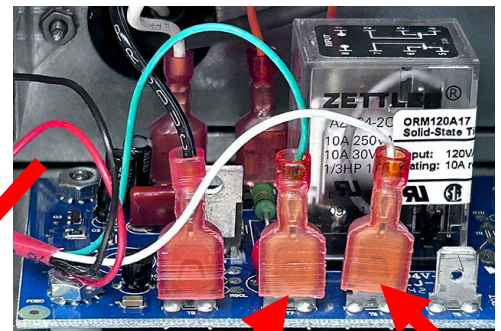


Figure 51

55. Locate the single **BLACK** wire with the terminated end and a stripped end (see Figure 52).



Figure 52

56. Insert the stripped end of the **BLACK** wire into a Wago snap connector with other **BLACK** wires (see Figure 53).

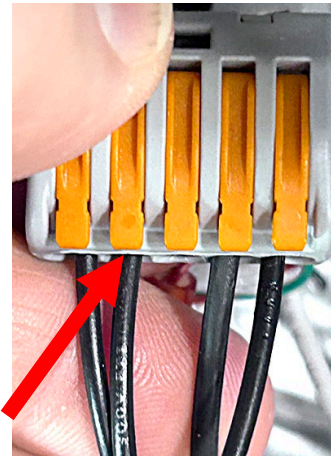


Figure 53

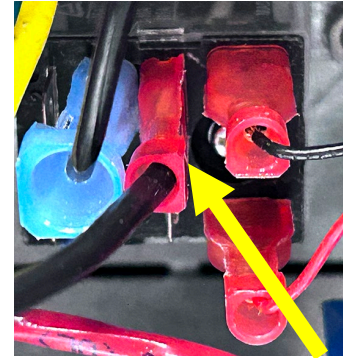


Figure 54

57. Attach the **TERMINATED** end of the **BLACK** wire to the clear OIB relay connector shown, in the control box (see Figure 54).

58. Reinsert the ATO and cook probes into the control box and re-connect to the SIB board (see Figure 55).

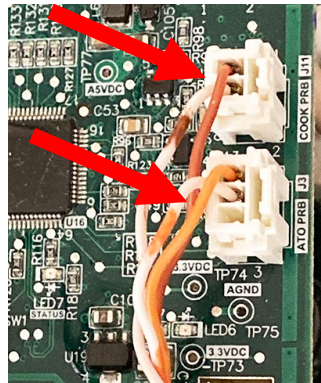


Figure 55

59. Reattach the black main 15-pin harness to the top plug on the rear of the component box. Pin 1 (denoted by the tab) is in the lower right corner (see Figures 56 & 58).

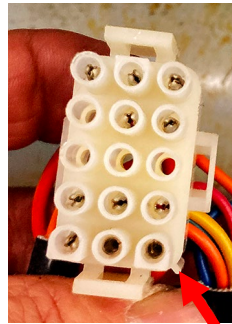


Figure 56

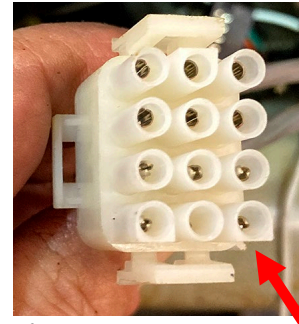


Figure 57

60. Reattach the gray 12-pin harness to the bottom plug on the rear of the component box. Pin 1 (denoted by the tab) is in the lower right corner (see Figures 57 & 58).

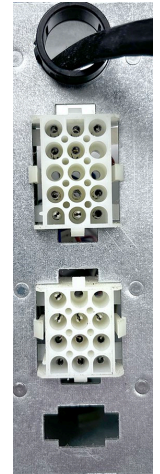


Figure 58

61. Remove speaker from the old control box and install in the new control box (see Figure 59).



Figure 59

62. Finish attaching the component box using four (4) screws on the left and right sides of the box (see Figure 60).



Figure 60

63. Attach the white sense wire to the S1 Sense location on the modules first (see Figure 61). The black connector attaches with the groove towards the module (see Figure 62).

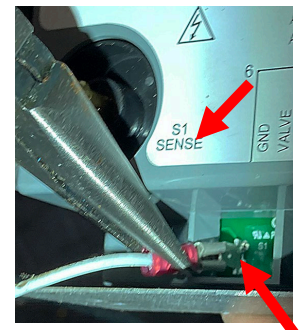


Figure 61

64. Slide the module bracket through the slots on the rear of the component box (see Figure 63). Attach the module bracket with the two (2) small drill screws **WITHOUT POINTS**.

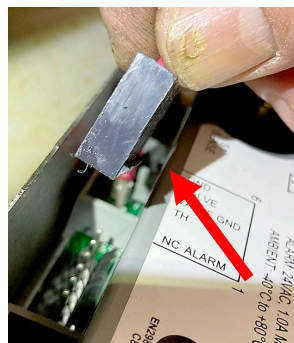


Figure 62

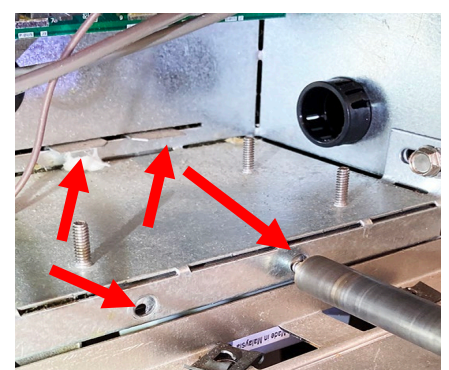


Figure 63

65. Attach the high voltage cables to the module and ignitor (see Figure 64).



Figure 64

66. Use zip ties to secure the wires (see Figure 65).

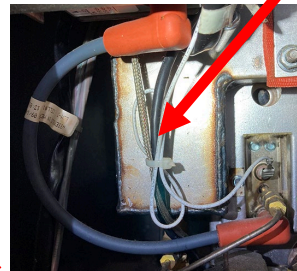


Figure 65

67. Reattach module covers (see Figure 66).

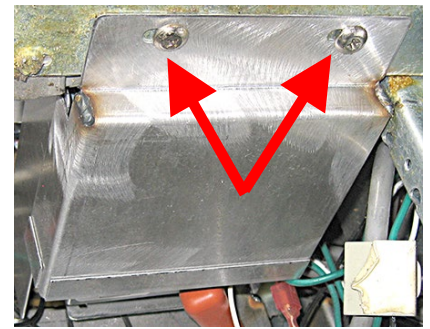


Figure 66

68. Ensure all wires are clear and reattach the blower using the four (4) nuts (see Figure 67).

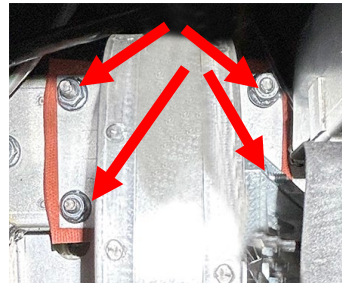


Figure 67

69. Reconnect the two (2) wire blower wiring harness (see Figure 68).

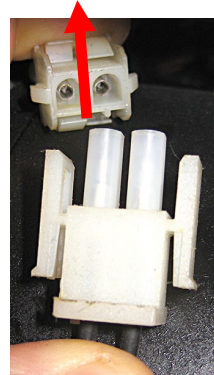


Figure 68

70. Reattach the USB port assembly if removed on the left side (see Figure 69), or the JIB reset switch assembly (see Figure 70), if removed from the right side.

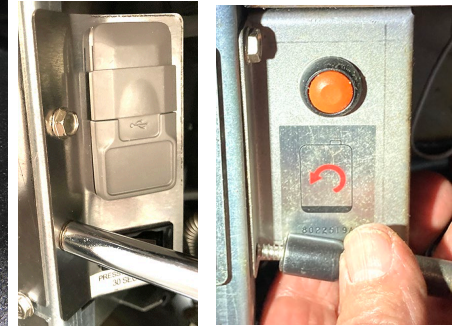


Figure 69

Figure 70

71. Reattach the controller bezel using two (2) screws on the bottom (see Figure 71).

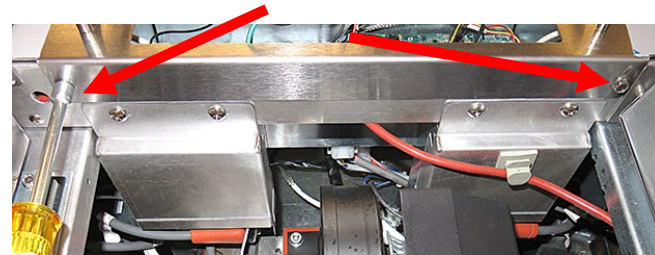


Figure 71

72. Reconnect the controller lanyard **FIRST** (see Figure 72).

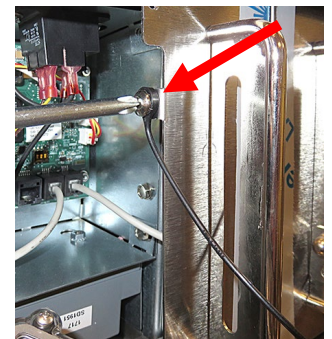


Figure 72

73. Reconnect the controller ground wire, speaker, and ID cable (if applicable) (see Figure 73).

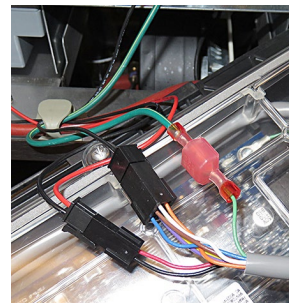


Figure 73

74. Reconnect the RJ controller power cable to the SIB board (see Figure 74).



Figure 74

75. Reconnect the power supply prior to reattaching the controller to ensure ALL the LED's on the SIB power up and the controller powers up (see Figure 75).



Figure 75

76. Reattach the controller to the bezel using the two (2) screws (see Figure 76).

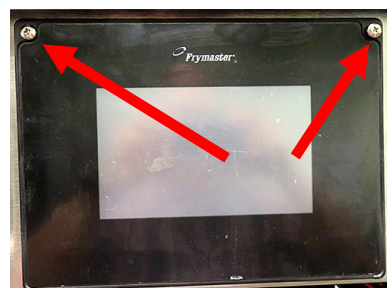


Figure 76

77. Reattach the guard rails removed in steps 13 & 44 (see Figure 77).

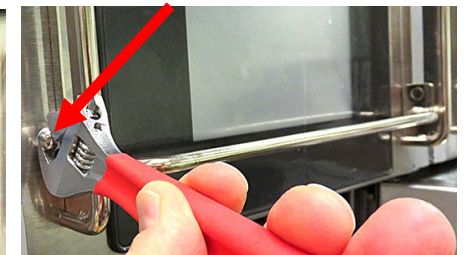


Figure 77

WIRING DIAGRAM

