

Instruction Sheet

Subject: 8263515 & 8263516 Single Spark to Fenwal Ignition Module Conversion Kit Instructions

Models affected: 30lb Gas Fryers - LOV (BIGLA), Manual LOV (BIGL), OCF (FPGL) and FilterQuick (FQG30) Gas Fryers with GIVEC Interface Boards

Follow these instructions to replace a single spark Honeywell or Capable Control module with the Fenwal spark ignition modules, 8076382 and 8076383.

1. Disconnect power from the fryer.

2. Remove the module cover by removing the two (2) screws securing the cover (see Figure 1).

3. Remove controller bezel.

4. Lower the controller by removing the two (2) screws.

5. Disconnect 2-pin blower power connection (see Figure 2).

6. Remove the blower by removing the four (4) 7/16" nuts (see Figure 3).

7. Disconnect the module harness connectors from the interface board (see Figure 4).

8. Loosen the two (2) 11/32" nuts attaching the module assembly, inside the rear of the controller box, (see Figure 5).

9. Slide the module assembly towards the rear of the control box until the nuts, loosened in the previous step, drop through the key hole slots. Fasteners or zip ties may need to be opened or cut to allow the harness/module to be lowered (see Figure 6).

In These Kits		
Part #	Description	Qty
1088196	Left Hand Module Assembly, 3 Second (1 for each Full Vat)	1
1088197	Right Hand Module Assembly, 4 second (1 for each Full Vat; 2 needed for Split Vat)	1
8076370	Harness, Aust. Fenwal Ignition Module	2
8073140	3/16" Male Terminal	2
8197576	Instructions	1

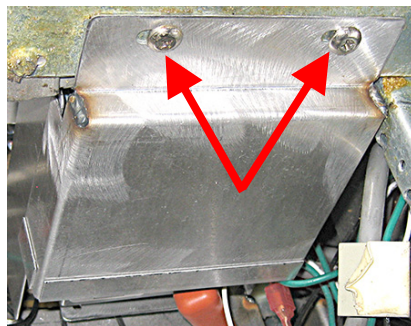


Figure 1

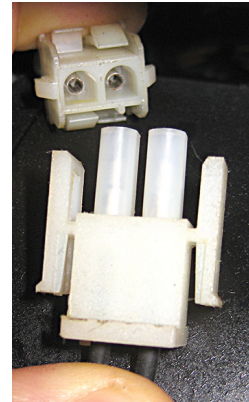


Figure 2

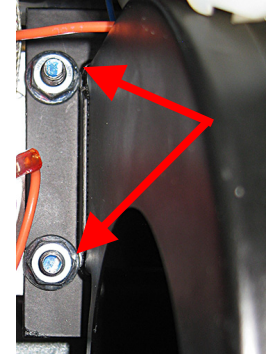


Figure 3

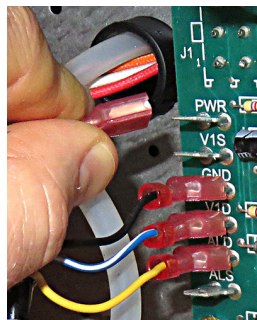


Figure 4

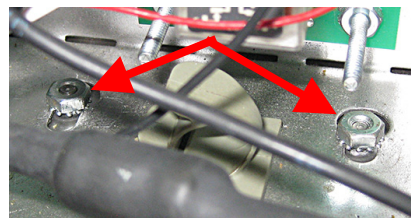


Figure 5



Figure 6

10. Pull the module harness down out of the control box.
11. Disconnect the high voltage wire, the white flame sense wire, the green ground wire and the black burner ground wire from the existing module (see Figure 7).
12. If the flame sense wire connector is ¼", cut the ¼" terminal off of the end of the white sense wire and strip the wire (see Figure 8).

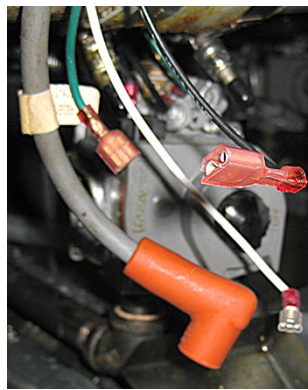


Figure 7



Figure 8



Figure 9

13. Terminalize the white sense wire with the supplied 3/16" male terminal (see Figure 9).
14. The new modules are different. The right-side module is 1088197 (8076383). The left-side module is 1088196 (8076382). Ensure the correct one is installed on the correct side of the control box.

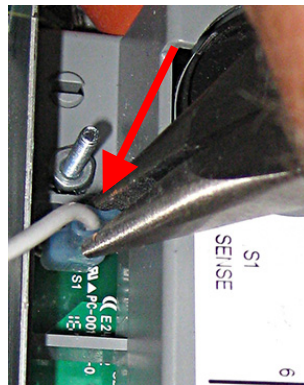


Figure 10



Figure 11

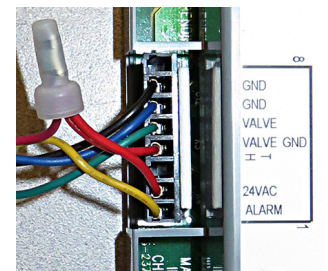


Figure 12

15. Attach the flame sense wire to the SENSE (S1) terminal of the new module (see Figure 10).
16. Attach the high voltage spark cable to the module. It may require twisting and pushing to fully secure the cable onto the module connector (see Figure 11).
17. If not already connected, attach the 8-pin black connector to the module (see Figure 12). Ensure that it is properly connected to the terminal.

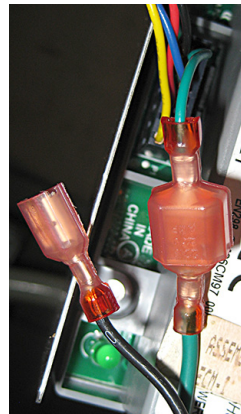


Figure 13



Figure 14

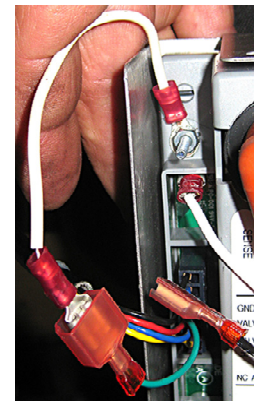


Figure 15

18. On full vat right module and both split vat modules, attach the green wire removed from the old module in step 11 to the green wire on the 8-pin connector attached to the module in previous step. Leave the black wire disconnected, as it is not used (see Figure 13). Reference the wiring diagrams on the last page.

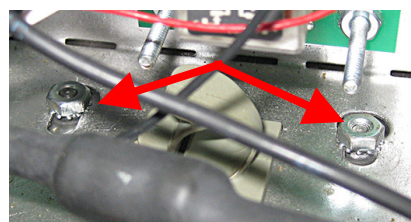


Figure 17



Figure 16

19. On full vat left modules, remove the white ground wire from the old module (see Figure 14).
20. Attach the white ground wire removed from the previous step to the ground lug of the new module. Attach the other end to the green wire from the 8-pin connector (see Figure 15). Leave the black wire disconnected, as it is not used.
21. Ensure the nuts on the top of the module assembly housing are loose. Carefully position the module housing studs with nuts, through the key hole slots in the bottom of the control box (see Figures 16 and 17).

22. Once the nuts are through the key hole slots, pull the module towards the front of the fryer and tighten the nuts.
23. Ensure the high voltage line is secured and no wires are pinched.
24. Route new harnesses into control box and connect to the interface board (see Figure 18). Use the wiring diagrams on the last page to attach to the correct connector.
25. Attach new module cover (see Figure 19).
26. Reattach blower removed in step 6. Ensure that wires are not pinched.
27. Reconnect blower power cable removed in step 5.
28. Reattach controller and bezel removed in steps 3 and 4.
29. Reconnect power.
30. Turn off the gas valves, gain access to interface board and look at the GV LED.
31. **NOTE: For full vat only** - When it calls for heat, the GV LED should illuminate for three (3) seconds then it should alarm. If it only illuminates for two (2) seconds, then the right module is not the 1088197 (4 sec). module and needs to be replaced with the correct module.
32. Turn on the gas valves.
33. Test and ensure the fryer is functioning properly.
34. The DC microamp output for flame proofing is 1.7 μ A to 3.0 μ A; 2 μ A to 2.5 μ A is a good range. Lockout is 0.5 μ A.

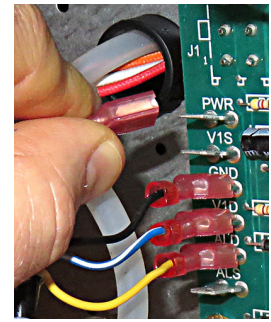


Figure 18

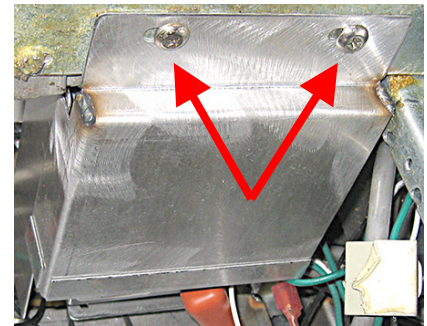
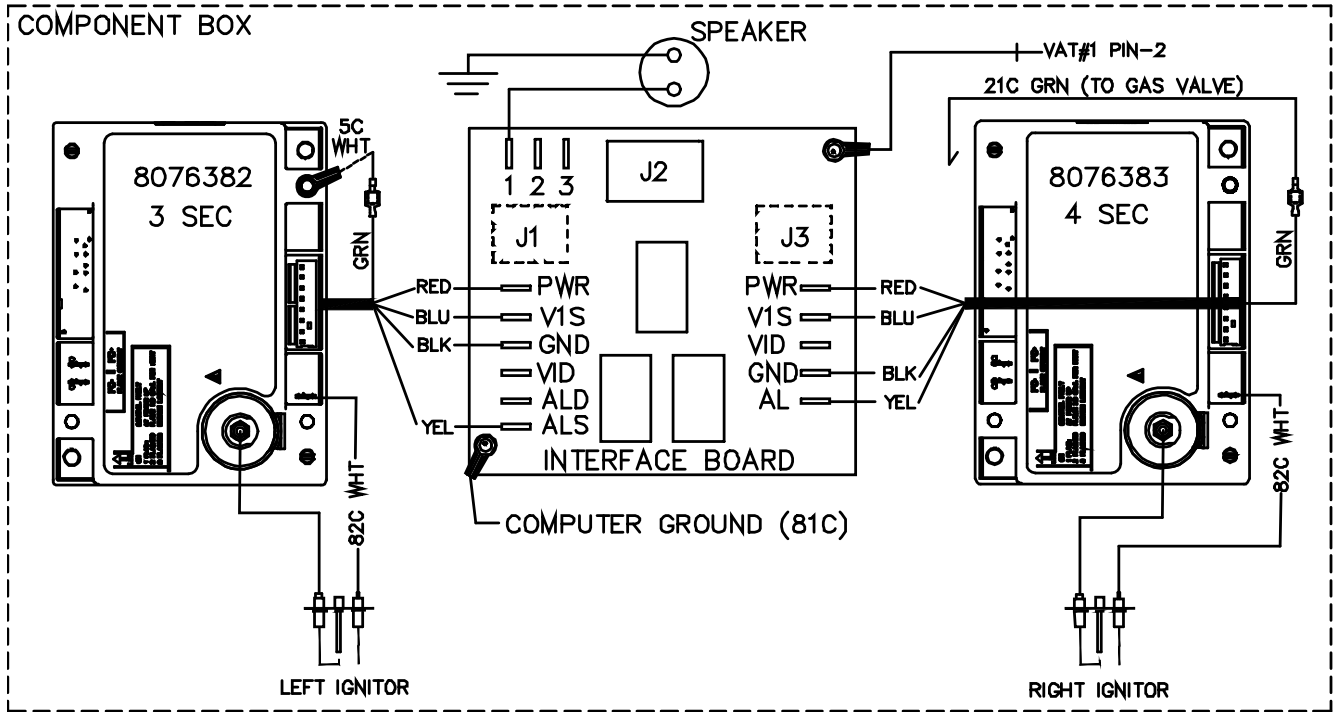


Figure 19

FULL VAT COMPONENT BOX – AUSTRALIA FENWAL



DUAL VAT COMPONENT BOX – AUSTRALIA FENWAL

