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Instruction Sheet

Subject: 8263668 or 8263669 Honeywell to Fenwal Ignition Module Conversions

Models affected: H50/H55 Gas Fryers

These kits replace the Honeywell modules on *H50/H55 FRYERS* which have been discontinued.

For Full Vat fryers use the instructions below. For Dual Vat fryers use the instructions beginning on page 5.

Full Vat Kit 8263668		
Part #	**Description**	**Qty**
8076552	HARNESS, FENWAL FV W/ DELAY	1
8075949	FENWAL, IGN MODULE	2
8075166	TIME DELAY RELAY	1
8090441	SCREW, #8 X 1.50 HX WSHD ZP	2
8090362	SCREW, DRILL #8 X 1" HEX WASHER ZP	4
8070621	TERMINAL PUSH ON INSULATED .187	3
8197936	INSTRUCTIONS	1

Dual Vat Kit 8263669		
Part #	**Description**	**Qty**
8076553	HARNESS, FENWAL DV W/ DELAY	2
8075949	FENWAL, IGN MODULE	2
8075166	TIME DELAY RELAY	2
8090441	SCREW, #8 X 1.50 HX WSHD ZP	2
8090362	SCREW, DRILL #8 X 1" HEX WASHER ZP	4
8070621	TERMINAL PUSH ON INSULATED .187	3
8197936	INSTRUCTIONS	1

1. Disconnect power from the fryer.
2. Remove the bezel.
3. Lower the controller and disconnect the harnesses from the controller (see Figure 1).

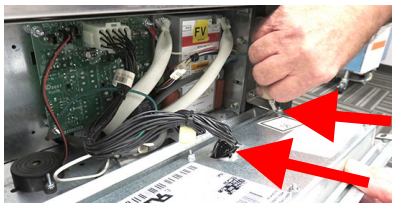


Figure 1

4. Remove the controller and set aside.
5. Disconnect the controller harness from the interface board (see Figure 2).

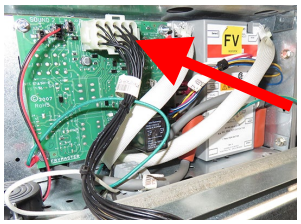


Figure 2

6. Disconnect the sound device from the interface board and carefully remove the screw and nut attaching the sound device (see Figure 3). Set aside the sound device, nut and screw to use later.

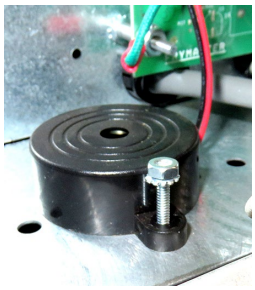


Figure 3


Figure 4

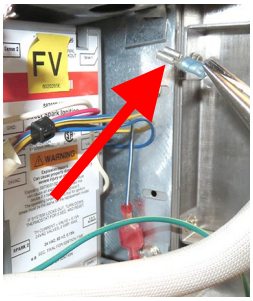


Figure 5

7. Disconnect both spark cables from the module (see Figure 4).
8. Carefully disconnect the white flame sense wire from the module (see Figure 5).
9. Disconnect the module harness and ground wire from the interface board ground lug (see Figure 6).

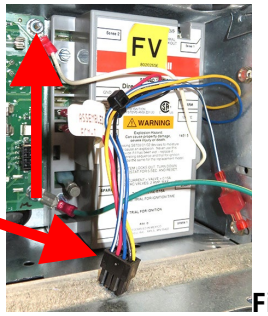


Figure 6

10. Remove the screws attaching the module to the control box and remove the module (see Figure 7).
11. Insert the new right module as shown (see Figure 8).
12. Attach the right module with a two screws (one in the upper left corner and one in the lower right corner) using the existing mounting holes (see Figure 9).
13. Attach the right spark cable (see Figure 10). The spark wire may have to be pulled slightly out of the control box to minimize the amount of spark cable in the control box.
14. Insert and attach the left module as shown with two screws (one in the upper left corner and one in the lower right corner) (see Figure 11).
15. Attach the left spark cable to the left module. The spark wire may have to be pulled slightly out of the control box to minimize the amount of spark cable in the control box.
16. Remove the existing ¼" terminals from the sense wires (see Figure 12).
17. Attach the included 3/16" terminals to the sense wires (see Figure 13).
18. Attach the sense wires to both modules (see Figure 14). Ensure the correct sense wire is connected to the correct module.
19. Locate the module harness with the yellow wire (see Figure 15).
20. Attach the harness in previous step to the right module (see Figure 16). The harness is attached to the module with the bevel (shown in Figure 15) toward the center of the module.

Figure 7

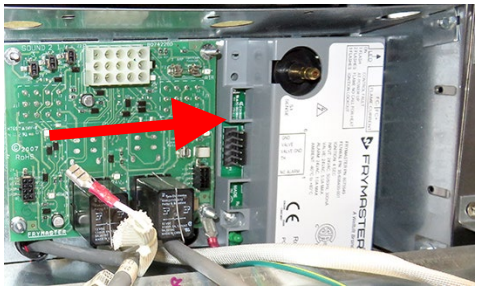


Figure 8

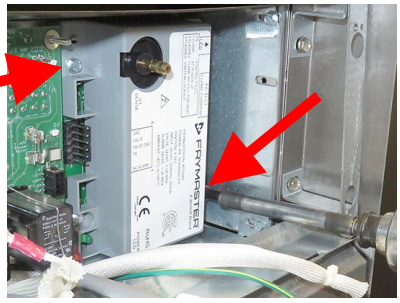


Figure 9

Figure 10

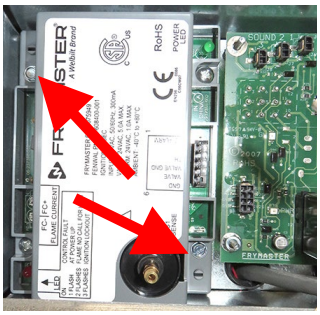


Figure 11

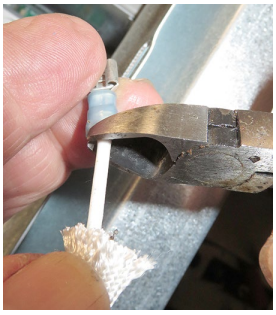


Figure 12

Figure 13

Figure 14

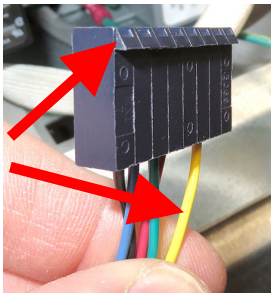


Figure 15

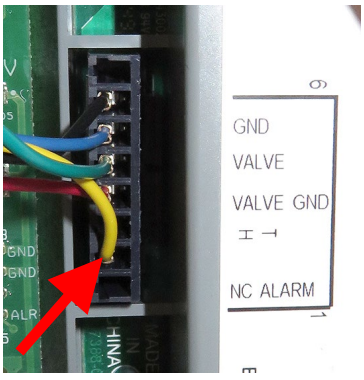


Figure 16

21. Attach the green wire from the harness in the previous step to the interface lug in the right top corner of the interface board (see Figure 17). Ensure the nut is securely tightened.
22. Attach the other end of the harness to the left module (see Figure 18). The green wire spade connector from the left harness is not attached to a connection (see Figure 19). Tuck the green wire away in the lower part of the control box.
23. Connect the 8-pin micro-mate harness connector to the interface board (see Figure 20). **NOTE: Attaching to old interface boards requires clipping the wires and terminating with ¼" push on terminals (not supplied).**
24. Connect the yellow and black wire from the 8-pin connector to the #1 (LOAD) connector on the time delay relay (see Figure 21).
25. Connect the remaining yellow wire from the harness to the #3 (INPUT) (3rd switch down or over) (4 second) connector on the time delay relay (see Figure 22).
26. Ensure the #3 switch on the time delay relay is in the ON position (see Figure 23).
27. Attach the time delay relay to the bottom hole, in the lower right corner, of the control box (see Figure 24). Ensure the high voltage spark cable is not touching the time delay relay.
28. Bend the top of the control box down slightly and insert the screw removed in step 6, through the hole in the top of the control box, over the left module (see Figure 25).
29. Attach the sound device to the screw using the nut removed in step 6 (see Figure 26).

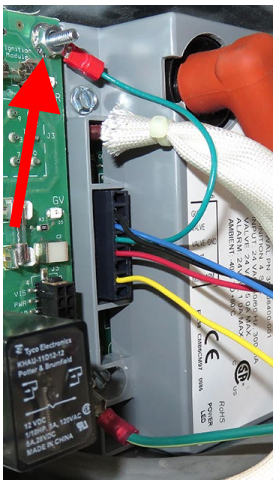


Figure 17

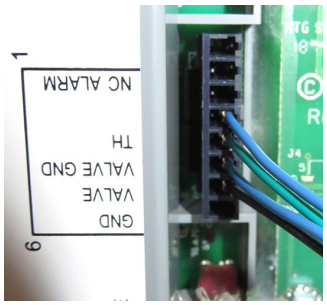


Figure 18

Figure 19

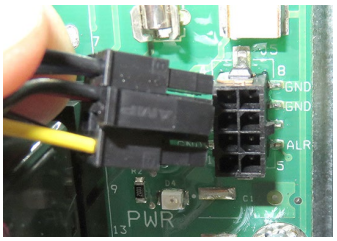


Figure 20

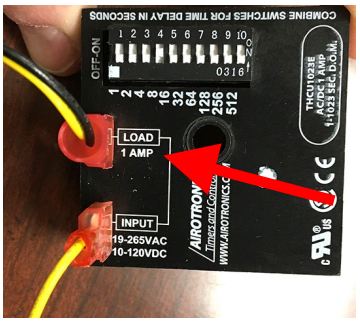


Figure 21

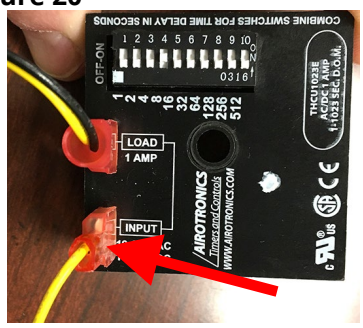


Figure 22

Figure 23

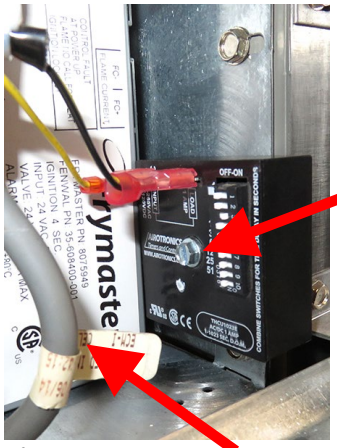


Figure 24

Figure 25

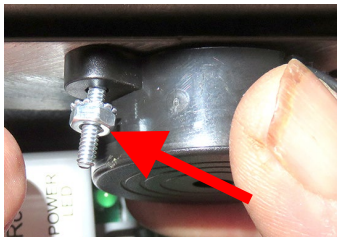


Figure 26

30. Connect the sound device harness to the correct connection interface board (see Figure 27).
31. Reattach the controller harnesses and controller.
32. Reattach the bezel.
33. Reconnect to power.
34. Turn on fryer and test to ensure proper function.

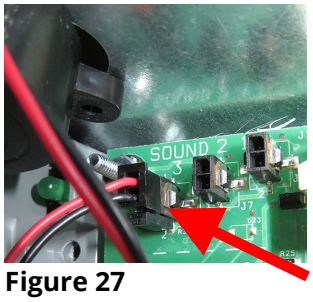
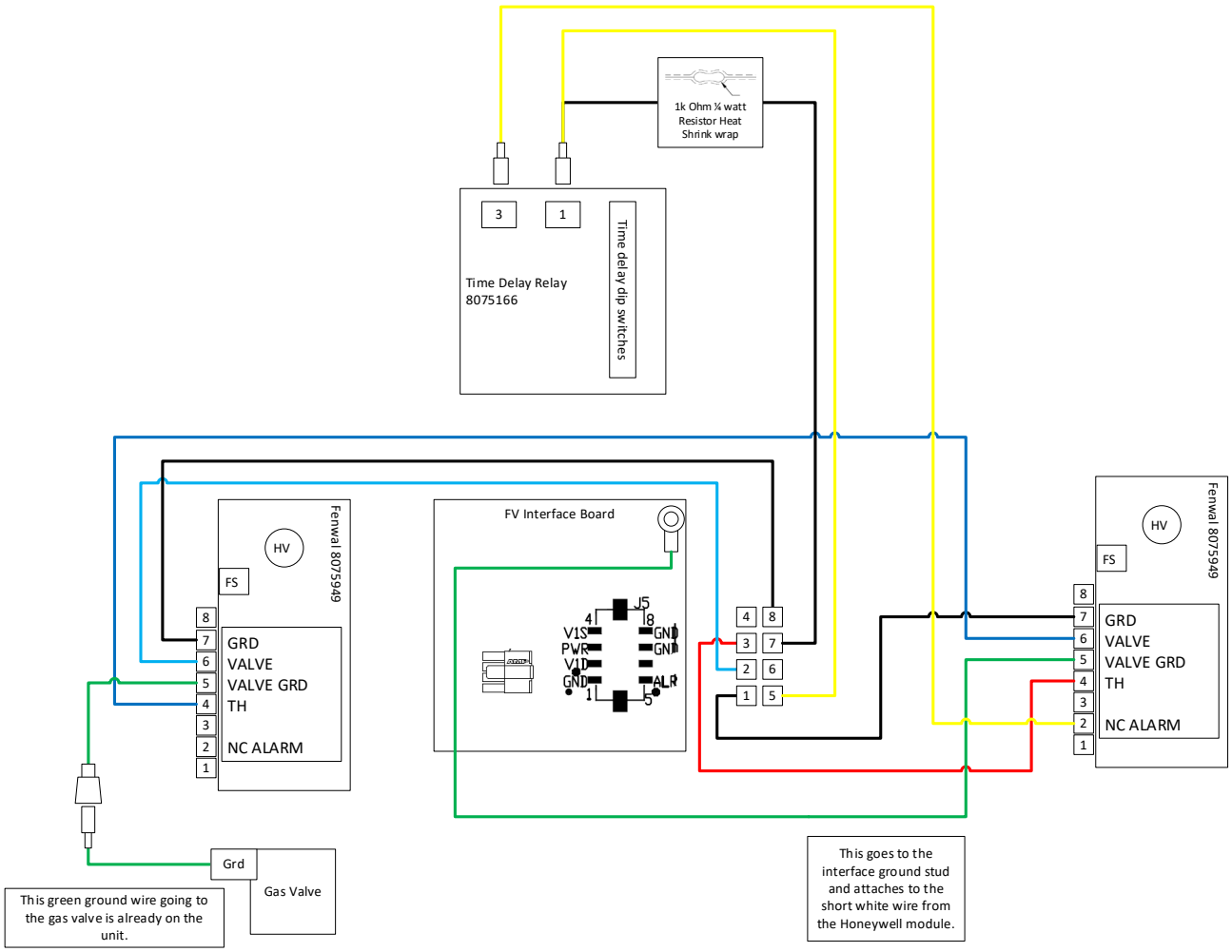


Figure 27

Full Vat Wiring Diagram



Dual Vat Kit 8263669 Installation Instructions

1. Disconnect power from the fryer.
2. Remove the bezel.
3. Lower the controller and disconnect the harnesses from the controller and the interface board (see Figure 1).
4. Remove the controller and set aside.
5. Disconnect the sound device from the interface board and carefully remove the screw and nut attaching the sound device (see Figure 2). Set aside the sound device, nut and screw to use later.
6. Disconnect the spark cable from the right module (see Figure 3).
7. Carefully disconnect the white flame sense wire from the module (see Figure 4).
8. Disconnect the module harness and ground wire from the interface board ground lug (see Figure 5). Keep the white ground wire for use later.
9. Remove the screws attaching the module to the control box and remove the module (see Figure 6).
10. Repeat steps 6 through 9 to remove the the left module (see Figure 7).
11. Insert the new right module as shown (see Figure 8).
12. Attach the right module with a two screws (one in the upper left corner and one in the lower right corner) using the existing mounting holes (see Figure 9).
13. Attach the right spark cable (see Figure 10). The spark wire may have to be pulled slightly out of the control box to minimize the amount of spark cable in the control box.

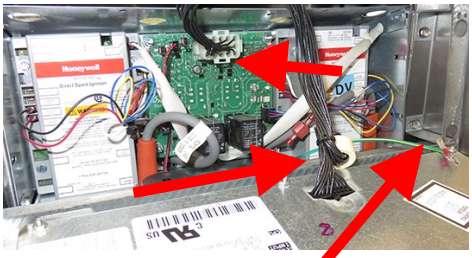
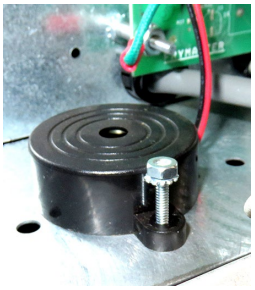


Figure 1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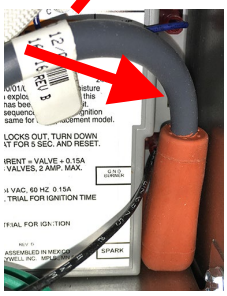
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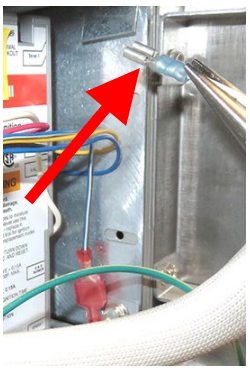
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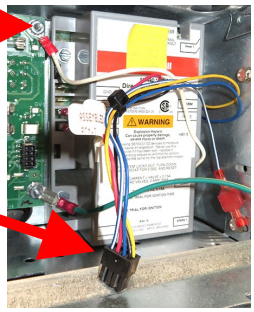
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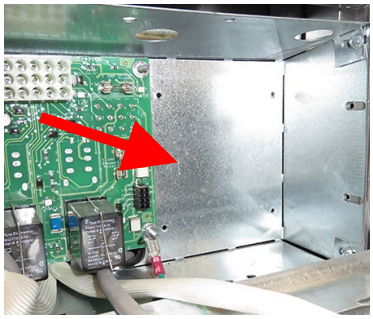
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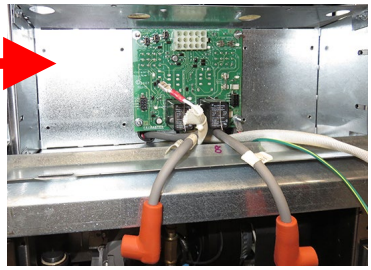
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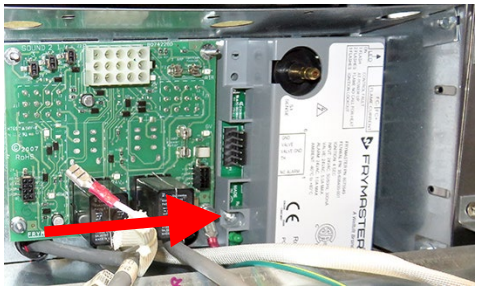
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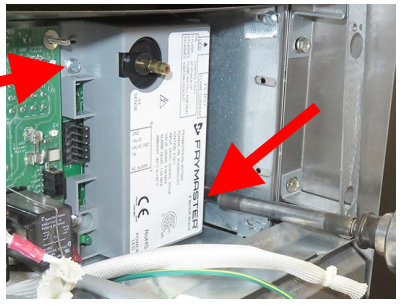
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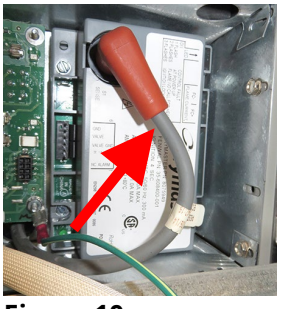
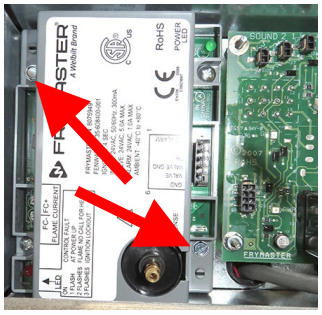


Figure 10

14. Insert and attach the left module as shown with two screws (one in the upper left corner and one in the lower right corner) (see Figure 11).
15. Attach the left spark cable to the left module. The spark wire may have to be pulled slightly out of the control box to minimize the amount of spark cable in the control box.
16. Remove the existing ¼" terminals from the sense wires (see Figure 12).
17. Attach the included 3/16" terminals to the sense wires (see Figure 13).
18. Attach the sense wires to both modules (see Figure 14). Ensure the correct sense wire is connected to the correct module.
19. Attach the white wire saved from step 8, to the green spade wire of one of the module harnesses (see Figure 15).
20. Attach the harness in previous step to the right module (see Figure 17). The harness is attached to the module with the bevel (shown in Figure 16) toward the center of the module.
21. Attach the white wire from step 19 to the to the interface lug in the right top corner of the interface board (see Figure 18). Route the wire around the module as shown. Ensure the nut is securely tightened.
22. Connect the 8-pin micro-mate harness connector to the interface board (see Figure 19). **NOTE: Attaching to old interface boards requires clipping the wires and terminating with ¼" push on terminals (not supplied).**
23. Connect the yellow and black wire from the 8-pin connector to the #1 (LOAD) connector on the time delay relay (see Figure 20).



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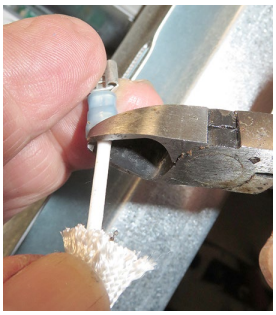
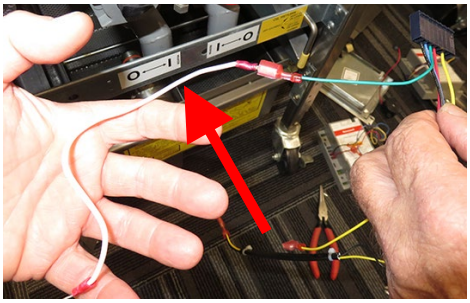


Figure 12


Figure 13

Figure 14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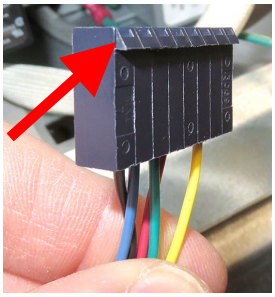
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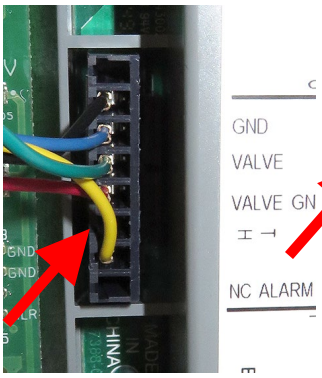

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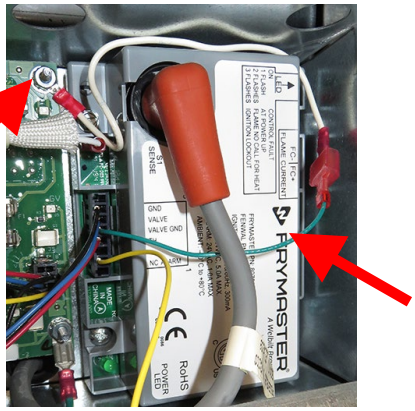

Figure 18

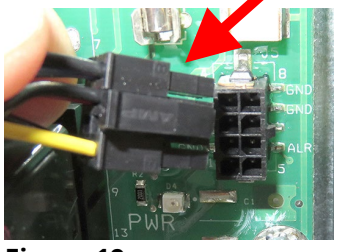

Figure 19

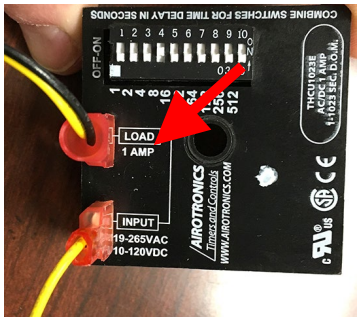

Figure 20

24. Connect the remaining yellow wire from the harness to the #3 (INPUT) (3rd switch down or over) (4 second) connector on the time delay relay (see Figure 21).

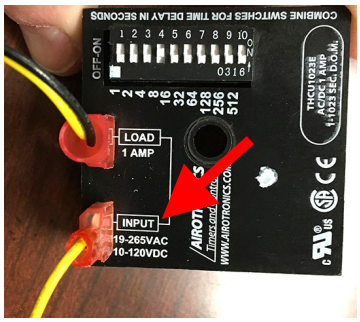

Figure 21

Figure 22

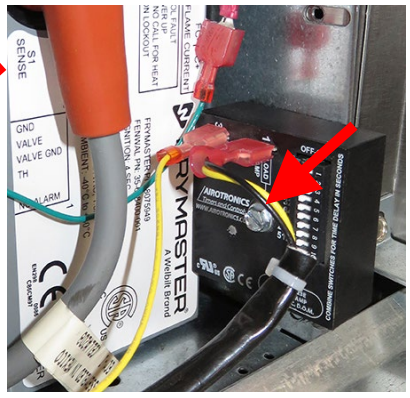

Figure 23

25. Ensure the #3 switch on the time delay relay is in the ON position (see Figure 22).
26. Attach the time delay relay to the bottom hole, in the lower right corner, of the control box (see Figure 23). Ensure the high voltage spark cable is not touching the time delay relay.
27. Repeat steps 19-26 for the left module (see Figure 24). It should be a mirror of the right module.
28. Bend the top of the control box down slightly and insert the screw removed in step 5, through the hole in the top of the control box, over the left module (see Figure 25).
29. Attach the sound device to the screw using the nut removed in step 5 (see Figure 26).
30. Connect the sound device harness to the correct connection on the interface board (see Figure 27).
31. Reattach the controller harnesses and controller.
32. Reattach the bezel.
33. Reconnect to power.
34. Turn on fryer and test to ensure proper function.

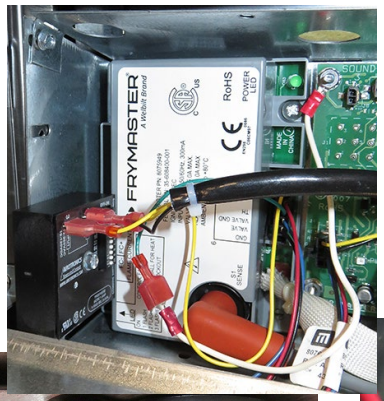

Figure 24

Figure 25

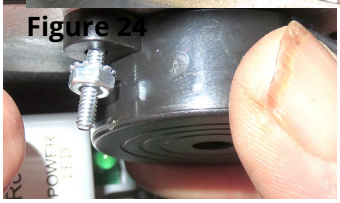
Figure 26

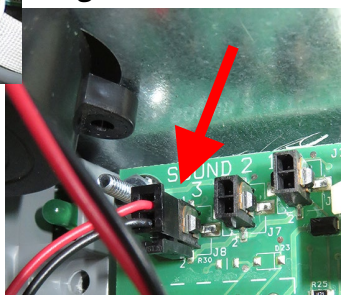
Figure 27

Dual Vat Wiring Diagram