

Instruction Sheet

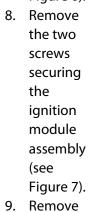
318-865-1711 800-551-8633 WWW.FRYMASTER.COM EMAIL: FRYSERVICE@WELBILT.COM

Subject: 8263447 LOV-T Capable Control to Fenwal **Ignition Module Conversion Kit Instructions**

Models affected: LOV-T (BIGLA30-T) Gas Fryers

Follow these instructions to replace a Capable Control module with the Fenwal spark ignition module, 8075949.

- 1. Disconnect power from the fryer.
- 2. Disconnect 2-pin blower power connection (see Figure 1).
- 3. Remove the blower grill off of the blower by removing the two nuts attaching the grill (see Figure 2). This allows access to the left two nuts of the blower.
- 4. Remove the diverter behind the grill by pulling out at an angle (see Figure 3).
- 5. Remove the left blower nuts and loosen the right blower nuts 2 or 3 turns (see Figure 4).
- 6. Slide the blower off of the right nuts towards the left (see Figure 5).
- 7. Remove the ignition module covers by removing the two screws attaching the cover to the module assembly (see Figure 6).









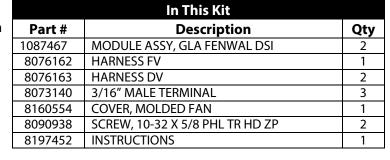




Figure 1



Figure 2



Figure 3



Figure 6

Figure 7





Figure 8

the module by pushing back and then lowering (see Figure 8).





- 10. Disconnect the high voltage wire, the flame sense wire and the ground wire from the existing module (see Figure 9). Cut and remove the green ground wire as it will not be needed.
- 11. Unplug the module harness (see Figure 10).
- 12. Repeat steps 7 through 11 on opposite module.
- 13. Disconnect wires from the pressure switch (see Figure 11).
- 14. Remove the modules and harnesses from the fryer (see Figure 12).
- 15. Attach the new harnesses to the fryer 6pin to 6-pin and 9-pin to 9-pin (see Figure 13). Reference wiring diagrams on back pages.
- 16. Disconnect blue extension wire from module harness removed in step 14 (see Figure 14).
- 17. Connect blue extension to the common connection on the pressure switch (see Figure 15).
- 18. Attach the blue wire from the new harness to the blue extension attached in the previous step (see Figure 16).
- 19. Attach the orange wire from the new harness to the NO position of the pressure switch (see Figure 17).
- 20. Cut the 1/4" terminal off of the end of the white sense wire and strip the wire (see Figure 18).
- 21. Terminalize the white sense wire with the supplied 3/16" male terminal (see Figure 19).
- 22. Attach the flame sense wire to the SENSE (S1) terminal of the new module (see Figure 20).
- 23. 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 21).
- 24. Attach the 8-pin black connector to the module (see Figure 22). Ensure that it is properly connected to the terminal.

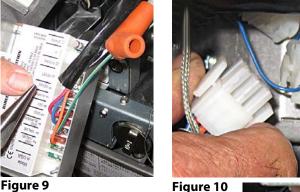


Figure 10

Figure 11



Figure 12





Figure 13

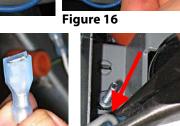






Figure 19

Figure 15

Figure 18





Figure 22

25. Attach new module by inserting the module assembly and then sliding bracket onto the bottom of the control box from the rear. Secure with supplied 1/4" screws (see Figure 23). NOTE: The harness with the solid blue wire

- attaches to the left module; the harness with the blue/white wire attaches to the right module.
- 26. Unscrew and remove the old motor guard from the blower (see Figure 24).
- 27. Attach the new motor guard with beveled edges (see Figure 25).
- 28. Ensure the harnesses are secured up and out of the way.
- 29. Reattach the blower. Ensure the right slotted sides slide on first underneath the loose nuts. Slide the left holes back onto the studs (see Figure 26).
- 30. Tighten up the four (4) nuts to secure the blower.



Figure 27

Figure 24









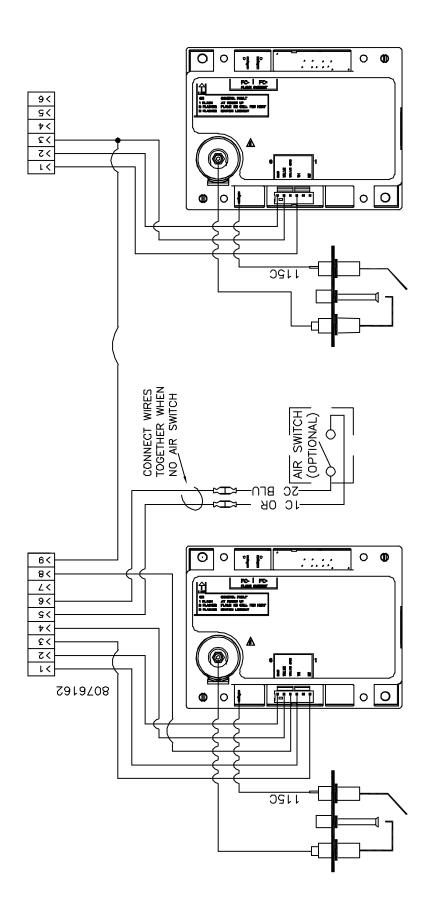
Figure 29

Figure 26

Figure 30

- 31. Reattach the blower power cable (see Figure 27).
- 32. Angle and slide the diverter back into place inside the blower and rotate to slide onto the studs (see Figure 28).
- 33. Reattach the shutter and tighten the nuts.
- 34. Reattach the module cover removed in step 7 (see Figure 30) with two (2) 1/4" screws.
- 35. Reconnect power.
- 36. Test and ensure the fryer is functioning properly.
- 37. The DC microamp output for flame proofing is $1.7\mu A$ to $3.0\mu A$; $2\mu A$ to $2.5\mu A$ is a good range. Lockout is $0.5\mu A$.

Full Vat Wiring



Dual Vat Wiring

