

# Instruction Sheet

**Subject: 8263271 Honeywell Single Spark Ignition Module Conversion to Capable Controls Single Spark Ignition Module (Replaces Honeywell 8071006)**

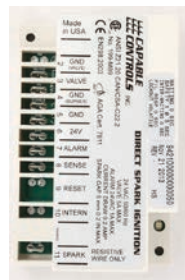
**Models affected: H50, H52, H55, OCF and LOV Fryers**

Follow these instructions to install the enclosed Capable Controls spark ignition module, 8075691. It is a replacement for Honeywell module 8071006 which has been discontinued. The function is the same. Use instructions below for NON-OCF/LOV fryers. Use instructions on page 2 for LOV/OCF fryers.

In This Kit		
Part Number	Description	Qty
8070705	1/4" push-on terminal	2
8073484	Connector, Rajah	1
8075008	Cable, Ignition	1
8075691	Capable Controls ignition module	1
8090362	Screw, drill #8 x1" hex head	4
8052021	Wiring diagram FV/DV Cap Controls	1
8197203	Instructions	1



**8071006**  
**Discontinued Honeywell Spark Module**



**8075691**  
**Capable Controls Spark Module**

## NON-OCF/LOV Fryer Instructions ONLY

1. Remove power from the unit.
2. Remove the bezel.
3. Disconnect the controller.
4. Label wires before removing existing spark module.
5. Disconnect all wires from module.
6. Replace the existing spade terminal on the yellow wire with the enclosed 8070705 1/4" push-on terminal.
7. Remove the four screws attaching the module to the rear of the component box.
8. Tear off a flap of cardboard from shipping box. Place underneath the module to raise the module slightly off the bottom of the component box (see Figure 1).



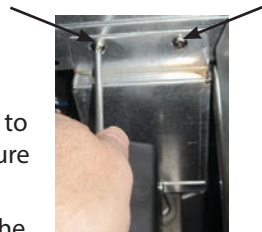
**Figure 1**

9. Center the module between the interface board and the side of component box.
10. Attach the new module using supplied screws.
11. Remove the cardboard from under the module and discard.
12. Attach the enclosed Rajah connector on Pin 11 - SPARK.
13. Follow the wiring matrices on page 2 and 3 to attach the wires. Replace spark cable with the new supplied spark cables.
14. Reverse steps 1 through 3 to complete the procedure.
15. Use the enclosed wiring diagram and trim either the Full Vat or Dual Vat diagram from the page and apply to the door of fryer.
- 16. Using the instructions on page 3 test the microamps and adjust if necessary.**
17. Restore power and test the fryer.

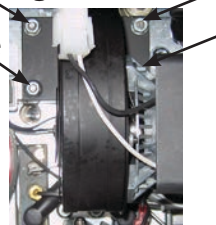
## OCF and LOV Fryer Instructions ONLY.

Follow these instructions to install the enclosed Capable Controls spark ignition module, 8075691. It is a replacement for Honeywell module 8071006 which has been discontinued. The function is the same. Use instructions below for LOV/OCF fryers.

1. Remove power from the unit.
2. Remove the bezel.
3. Disconnect the controller.
4. Remove the ignition module cover to gain access to the module (see Figure 2).
5. Unplug the module harness from the interface board.
6. Loosen the blower motor nuts (remove blower if necessary) to allow access to the module (see Figure 3).
7. Loosen the module mounting bracket nuts in the bottom of component box (see Figure 4).
8. Slide the module assembly towards the rear of component box until the nuts drop through the keyholes (see Figure 5).
9. Fryers that previously had Honeywell modules - Follow the instructions in kit 8263270 to attach the new ignition module to Capable Controls mounting plates.
10. Label wires prior to disconnecting from the existing spark module.
11. Disconnect all wires from the module.
12. Replace the existing spade terminal on the yellow wire with the enclosed 8070705 1/4" push-on terminal.
13. Follow the wiring matrices to the right and on page 3 to attach the wires (see Figure 6). Replace spark cable with new supplied spark cables. Ensure that the spark cable is in cable clip on rear of the module box.
- 14. DO NOT ATTACH THE LEFT ALARM WIRE ON FULL VAT FRYERS.**
15. Reverse steps 1 through 8 to complete the procedure.
16. Use enclosed wiring diagram and trim either the Full Vat or Dual Vat diagram from the page and apply to the fryer door.



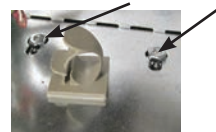
**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**

H50/H52/H55 Full Vat — Two Modules			
Interface Board (right)	Wire Color	Honeywell Module	Capable Controls Module
PWR	Red	25V or 24VAC	Pin 6 - 24V
V1S	Blue/White	Valve	Pin 3 - Valve
ALR	Yellow	Alarm	Pin 7 - Alarm
GND	Black	25V (GND) or 24VAC GND	Pin 5 - GND
V1D	Blue	Not Used	Not Used
-	Green	Valve (GND)	Pin 2 - GND (Valve)
-	Black	GND (Burner)	Pin 4 - GND (Burner)
-	White	SENSE or Sensor	Pin - 8 SENSE
-	Gray Spark Wire	SPARK	Pin 11 - SPARK
Interface Board (left)	Wire Color	Honeywell Module	Capable Controls Module
PWR	Red	25V or 24VAC	Pin 6 - 24V
V2D	Blue	Not Used	Not Used
AD*	Yellow	Alarm	Pin 7 - Alarm
V2S	Blue/White	Valve	Pin 3 - Valve
GND	Black	25V (GND) or 24VAC GND	Pin 5 - GND
-	Green	Valve (GND)	Pin 2 - GND (Valve)
-	Black	GND (Burner)	Pin 4 - GND (Burner)
-	White	SENSE or Sensor	Pin - 8 SENSE
-	Gray Spark Wire	SPARK	Pin 11 - SPARK

**\* NOTE: The left module alarm is not required on this board with Honeywell modules. However it is required with Capable Controls modules.**

17. Using the instructions on page 3 test the micro-amps and adjust blower shutter and gas pressure if necessary.
18. Restore power and test the fryer.

### Testing Micro-amps

When the burner flame is properly adjusted, it will typically produce a current between 0.3  $\mu$ A and 0.9  $\mu$ A on Capable Controls modules or between 3.0  $\mu$ A and 8.0  $\mu$ A on Honeywell modules. Lockouts can occur at currents 0.15  $\mu$ A or below on Capable Controls modules or 0.9  $\mu$ A or below on Honeywell modules. Flame current is measured by placing a microamp (not milliamp) meter in series with the sensing wire on the igniter. This is accomplished as follows:

1. Place the fryer power switch in the OFF position.
2. Disconnect the white sensing wire from one of the burner igniters (see Figure 7) and connect it to the positive lead of the meter. Connect the negative lead of the meter to the terminal from which the sensing wire was removed (see Figure 8).
3. Ensure that the meter is set to read micro-amps.
4. Place the fryer power switch in the ON position to light the burners. After the frypot temperature reaches 200°F (93°C), wait at least one minute before checking the reading. NOTE: The closer the unit is to normal operating temperature, the more accurate the reading will be.

H50/H52/H55 Dual Vat — Two Modules			
Interface Board (right)	Wire Color	Honeywell Module	Capable Controls Module
PWR	Red	25V or 24VAC	Pin 6 - 24V
V1D	Blue	Valve	Pin 3 - Valve
ALR	Yellow	Alarm	Pin 7 - Alarm
GND	Black	25V (GND) or 24VAC GND	Pin 5 - GND
V1S	Blue/White	Not Used	Not Used
-	Green	Valve (GND)	Pin 2 - GND (Valve)
-	Black	GND (Burner)	Pin 4 - GND (Burner)
-	White	SENSE or Sensor	Pin - 8 SENSE
-	Gray Spark Wire	SPARK	Pin 11 - SPARK
Interface Board (left)	Wire Color	Honeywell Module	Capable Controls Module
PWR	Red	25V or 24VAC	Pin 6 - 24V
V2D	Blue	Valve	Pin 3 - Valve
AD	Yellow	Alarm	Pin 7 - Alarm
V2S	Blue/White	Not Used	Not Used
GND	Black	25V (GND) or 24VAC GND	Pin 5 - GND
-	Green	Valve (GND)	Pin 2 - GND (Valve)
-	Black	GND (Burner)	Pin 4 - GND (Burner)
-	White	SENSE or Sensor	Pin - 8 SENSE
-	Gray Spark Wire	SPARK	Pin 11 - SPARK

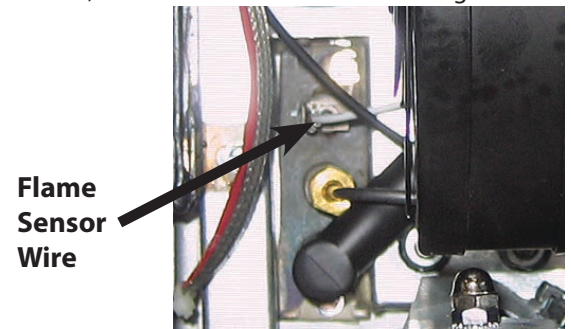


Figure 7

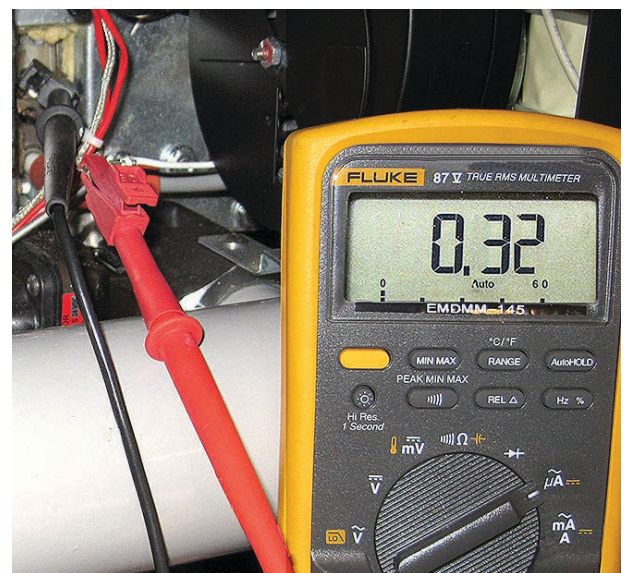


Figure 8