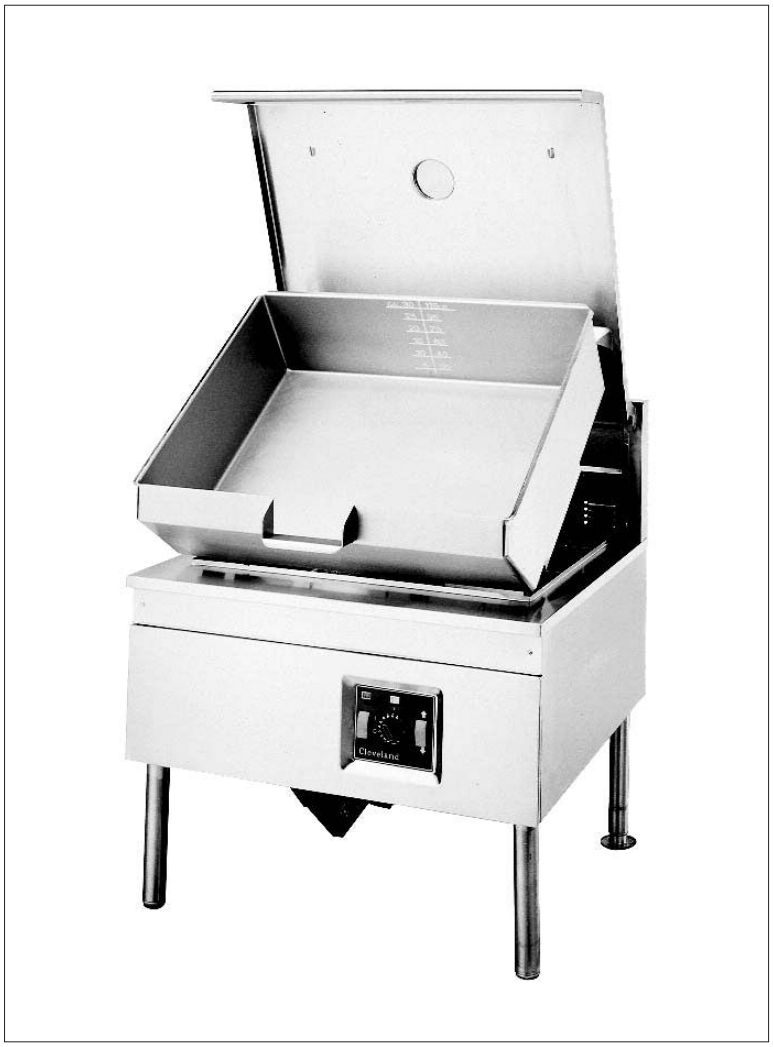
Service Bulletin

DIRECT SPARK IGNITION MODULE REPLACEMENT PROCEDURE

(FOR KIT NUMBER KE003668)

The following modification must be followed exactly. Due to limited space, any deviations may cause installation problems. With this modification, the Ignition Failure Light (amber LED) will no longer function.



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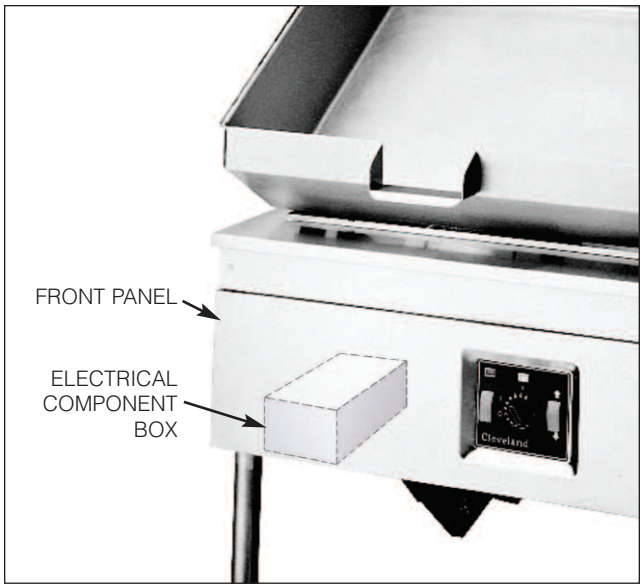
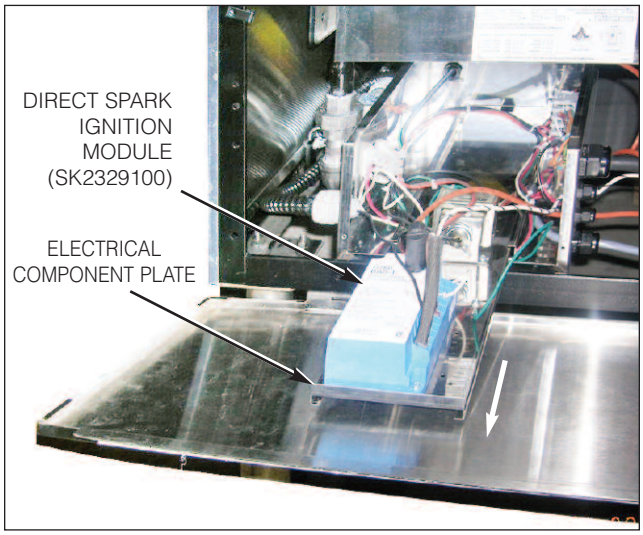
	Part #
Old Direct Spark Ignition Module	SK2329100
New Direct Spark Ignition Module	KE603774-1

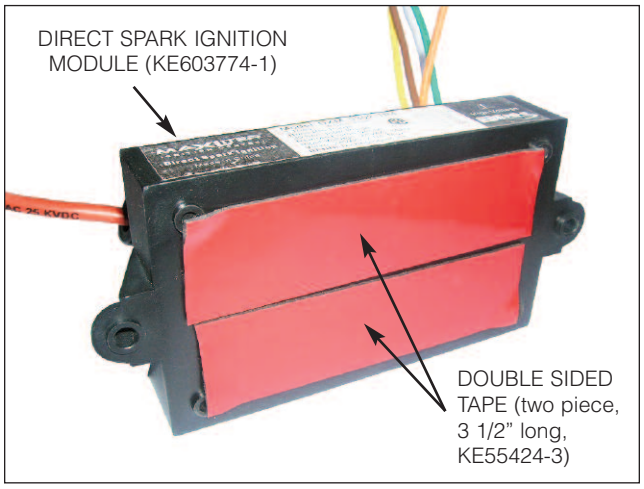
Prior to proceeding turn off gas supply and shut off power to the Skillet at the fused disconnect switch.



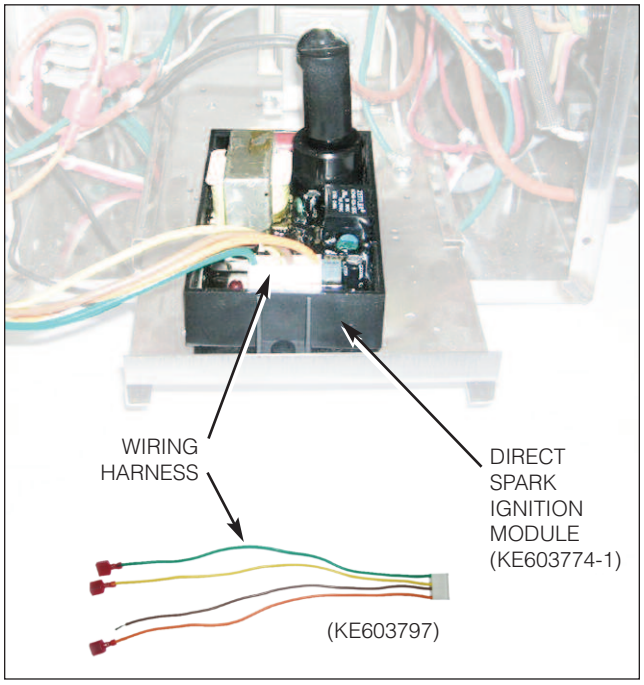
1. Open the front panel and remove cover from ELECTRICAL COMPONENT BOX.



2. Pull out ELECTRICAL COMPONENT PLATE and remove the old DIRECT SPARK IGNITION MODULE (SK2329100).



3. Apply DOUBLE SIDED TAPE to the new DIRECT SPARK IGNITION MODULE (KE603774-1)



4. Tape the new DIRECT SPARK IGNITION MODULE into place as shown and connect the WIRING HARNESS (KE603797) to the new DIRECT SPARK IGNITION MODULE.

5. Reconnect the new DIRECT SPARK IGNITION MODULE as illustrated.

6. Replace cover on the electrical component box.

7. Close the front panel.

8. Turn ON power to the Skillet at the fused disconnect switch.

9. Turn ON gas supply.

10. Test unit for correct operation.

Connect the following wires:

- GREEN (ignition module) to GREEN (wiring harness).
- ORANGE (ignition module) to ORANGE (wiring harness).
- YELLOW (ignition module) to WHITE with BLUE STRIPES (sensor).
- Cut connectors from ends of existing BLACK and BROWN wires. Connect these two wires to new BROWN wire using a Marr connector. (Part# KE52412)
- Disconnect the solenoid's WHITE wire from the old direct spark ignition module then change the ¼" push-on terminal with #10 ring connector (part# KE51864) and then connected to the existing ground screw.

Direct Spark Ignition
24VAC & 120VAC
DXM Series

MAXLITER IGNITION CONTROL

FEATURES:

- Diagnostic LED Indicator light
- Remote or Local Flame Sensing
- Natural and LP Gas Equipment
- Multiple Tries For Ignition
- Potted or with Integral Stand-Offs
- Custom Pre-Purge & Inter-Purge Timings
- Automatic One Hour Reset

APPLICATIONS:

- Infrared Radiant Heaters
- Commercial Cooking Equipment
- Gas Fired Furnaces, Fire Places and Gas Boilers
- Commercial Water Heaters and Dryers

DESCRIPTION

The model DXM above is a 24 or 120VAC Direct Spark ignition control. The microprocessor circuit design provides precise, repeatable timing and operating sequences. The on-board diagnostics with LED output provides assistance with troubleshooting to ensure a safe and efficient operation.

Full featured design makes it the right choice for any gas fired direct spark appliance and works with both natural and LP gas.

APPROVALS

Software conforms to UL 1998 requirements
Designed to ANSI Z21.20 Standards

Main Offices/Warehouse:

BENNI TECHNOLOGIES

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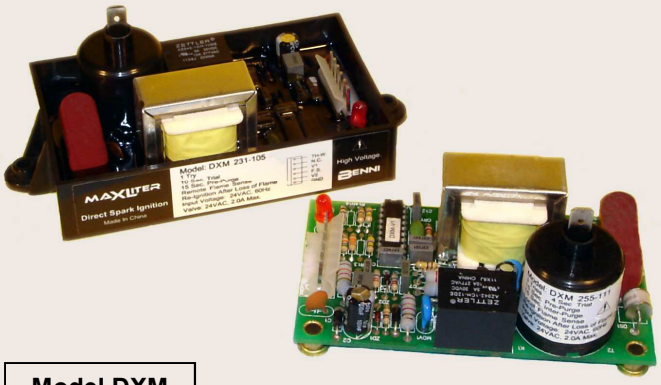


Model DXM

Specifications

INPUT VOLTAGE	- 18-30VAC 50/60 Hz (Class 2 Transformer) or - 102-138VAC 50/60 Hz
CURRENT DRAW MAIN VALVE	2.0A @ 24VAC or 120VAC
INPUT CURRENT DRAIN	300 mA @ 24VAC, 350 mA @120VAC
VALVE CONTACT RATING	2.0A @ 24VAC, 1.5A@ 120VAC
OPERATING TEMPERATURE	-40F to 175F, -40C to +80C
TYPES OF GASES	Natural, LP, or Manufactured
FLAME SENSITIVITY	0.7uA Minimum
SPARK RATE	50/60 Hz (Line Frequency)
FLAME FAILURE RESPONSE	0.8 Seconds Maximum
SIZE (L x W x H)	4.00 x 2.30 x 1.50 inches
ENCLOSURE	Potted or Integral Stand Offs
MOISTURE RESISTANCE	CONFORMAL COATED OR POTTED TO 95% R.H. AVOID DIRECT EXPOSURE TO WATER
WEIGHT	

ON BOARD DIAGNOSTICS

LOCKOUT MODE	LED INDICATION
Ignition Failure	2 Flashes
Exceed Flame Lost	3 Flashes
MCU Failure or Flame Exists	4 Flashes

Form Number 7-DXM-001 January 2007

Ordering Information

DXM	X	X	X	X	-	X	X	X		DESCRIPTION

RESET METHODS AND ENCLOSURE

2 = POWER OFF RESET - POTTED

3 = AUTOMATIC RESET - POTTED

4 = POWER OFF RESET - INTEGRAL STAND OFFS WITH NO COVER

5 = AUTOMATIC RESET - INTEGRAL STAND OFFS WITH NO COVER

FLAME SENSING METHOD

R = REMOTE SENSE (DUAL ROD)

L = LOCAL SENSE (SINGLE ROD)

TRIAL FOR IGNITION

1 = 4 SECONDS

2 = 7 SECONDS

5 = 10 SECONDS

INTER-PURGE

0 = NONE (Single Try Models Only)

1 = 15 SECONDS

2 = 30 SECONDS

PRE-PURGE

0 = NONE

1 = 15 SECONDS

2 = 30 SECONDS

TRIES FOR IGNITION

1 = SINGLE TRY ONE HOUR AUTO RESET

2 = THREE TRIES ONE HOUR AUTO RESET

3 = SINGLE TRY NO ONE HOUR RESET

4 = THREE TRIES NO ONE HOUR RESET

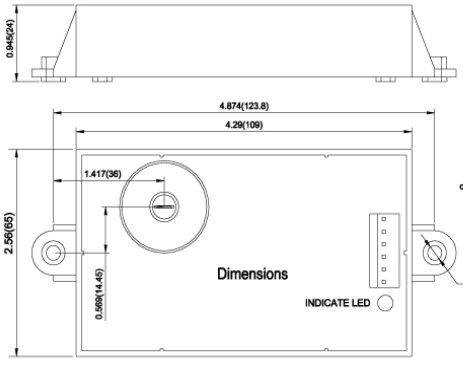
INPUT VOLTAGE

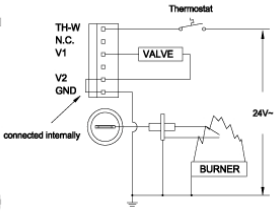
2 = 24VAC

3 = 120VAC

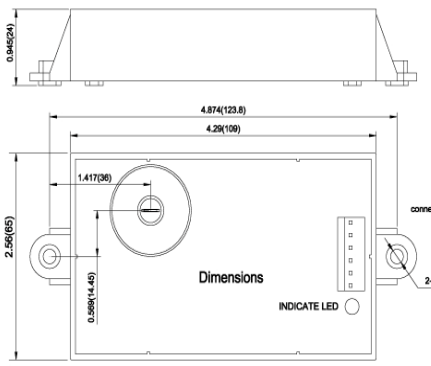
9 = CUSTOM SPECIAL OEM CONFIGURATION

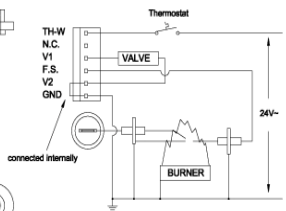
DXM = DIRECT SPARK IGNITION CONTROL MaxLiter Series





Wiring Diagram
Local Sense





Wiring Diagram
Remote Sense

DISCONNECT THE POWER SUPPLY BEFORE MAKING WIRING CONNECTIONS TO PREVENT ELECTRICAL SHOCK OR EQUIPMENT DAMAGE.

EXPLOSION HAZARD. CAN CAUSE INJURY OR EQUIPMENT DAMAGE.

Only trained professional gas appliance service technicians should install and check out this control.