

Q3300 Igniter-Flame Rod Assembly

Application

The Q3300 Spark Igniter-Flame Rod Assembly replaces the original spark igniter-flame rod assembly in the Q3452 Pilot Burner Igniter-Sensor used with the S8600 Intermittent Pilot Ignition Systems.

The Q3300 has an insulated spark leadwire and a flame sensing leadwire for connection to the S8600 Ignition Module.

The assembly can be replaced without removing the pilot burner, see Fig. 1.

TEMPERATURE RATING:

Flame Rod Tip: 1800°F (982°C).

Spark Rod Tip: 1800°F (982°C).

Flame Rod Insulator: 1250°F (677°C).

Flame Rod Lead: 500°F (260°C).

Installation

WHEN INSTALLING THIS PRODUCT...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.

2. Check the ratings and description given in the instructions to make sure the product is suitable for your application.

3. Installer must be a trained, experienced service technician.

4. After installation is complete, check out product operation as provided in these instructions.



WARNING

**FIRE OR EXPLOSION HAZARD
CAN CAUSE PROPERTY DAMAGE,
SEVERE INJURY, OR DEATH.**

Follow these warnings exactly:

1. Disconnect power supply before removing any connectors to prevent electrical shock or equipment damage.

2. To avoid dangerous accumulation of fuel gas, turn off the gas supply at the appliance service valve before starting igniter-flame rod assembly removal.

REMOVE OLD ASSEMBLY

1. Turn off power at circuit breaker or fuse box.

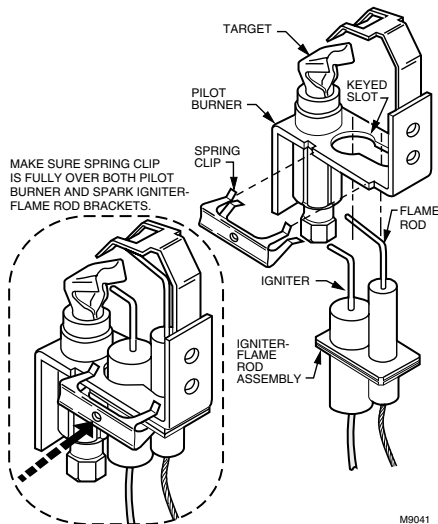
2. Hold the bottom of the assembly with one hand. With the other hand, remove spring clip by pulling it away from the pilot burner. See Fig. 1.

3. Remove the assembly from the pilot burner.

4. Disconnect the leadwires from the ignition system control module.

5. Discard the old assembly and spring clip.

Fig. 1—Replace Q3300 Spark Igniter-Flame Rod Assembly in keyed slot of pilot burner bracket.



IMPORTANT: Make sure the assembly is oriented in the proper direction for installation into the pilot burner.

MOUNT REPLACEMENT ASSEMBLY

1. Insert assembly in the pilot burner until it is flush with pilot burner bracket. Secure with new spring clip provided. See Fig. 1.

2. Connect the leadwire (with black insulated .250 in. quick connect) of the spark igniter rod to the Spark terminal of the S8600 Ignition Module, and the leadwire of the flame sensing rod to the Sense terminal of the Ignition Module. Do not allow the leadwire of the spark igniter to touch grounded metal surfaces because this will reduce the voltage available at the spark gap.

Startup and Checkout

1. Verify that the spark gap of the spark igniter rod to the target tip is between .070 and .130 in. If the gap is outside this specification, use a needle-nose pliers and bend the rod to bring the gap within the specifications.

2. Check system operation according to the checkout procedure provided by the appliance manufacturer.

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