

# SERIES 2 – Q3452 Spark Pilot Retrofit

## KIT# 550002585

### INSTALLATION INSTRUCTIONS

**⚠ WARNING**

Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read this instruction and understand all requirements, including requirements of authority having jurisdiction, before beginning installation. Installation not complete until appliance operation is verified per Installation, Operation & Maintenance Manual provided with boiler.

This kit is for both natural gas and LP versions. Pilot is shipped for natural gas, a conversion package is included in this kit.

Following instructions for installation of Q3452 Spark Pilot Retrofit Kit for Series 2 Boilers.

1. Follow instructions to **TURN OFF GAS TO APPLIANCE** found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual. Verify all electrical power to boiler is turned off.

**⚠ WARNING**

Electrical shock hazard. Turn OFF electrical power supply at service panel.

2. Allow boiler to cool for 30 minutes before starting installation.

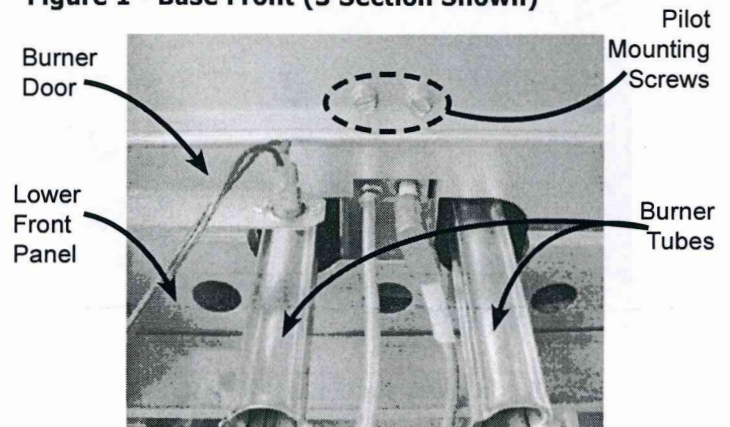
**⚠ WARNING**

Burn hazard. Verify heat exchanger and igniter have cooled or use appropriate personal protection equipment before removing pilot.

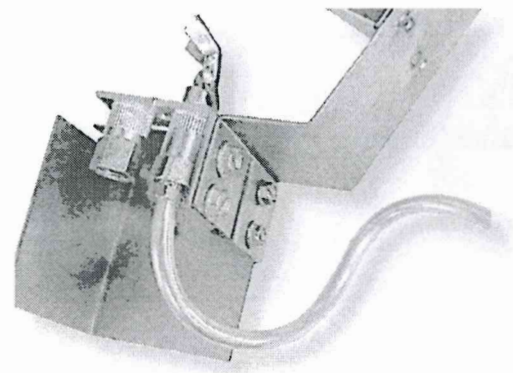
3. Remove front boiler door.
4. Disconnect spark cables from control board.
5. Disconnect pilot tube from gas valve. Loosen compression fitting located on top of gas valve.
6. Locate current pilot assembly in front of base. See Figure 1.
7. Remove top burner door and burner tubes.
8. Remove two pilot mounting screws holding pilot assembly in place. Remove entire pilot assembly.
9. If this is LP Boiler, convert pilot to LP configuration using enclosed pilot orifice.
10. **This step is for 2 section boiler only.** Remove pilot assembly from box. Bend pilot tubing as shown in Figure 2 (tight 180°, then 90° back) in order to get it in between upper and lower burner doors.

Kit# 550002585 Contents	Qty
Natural Gas spark/standing pilot assembly	1
Pilot Assembly Mounting Screws	2
Gas Valve Compression Fitting	1
LP Pilot Orifice	1

**Figure 1 - Base Front (3 Section Shown)**



**Figure 2 - Bend Pilot Tubing (Shield Not Shown for Clarity)**



## KIT INSTALLATION INSTRUCTIONS

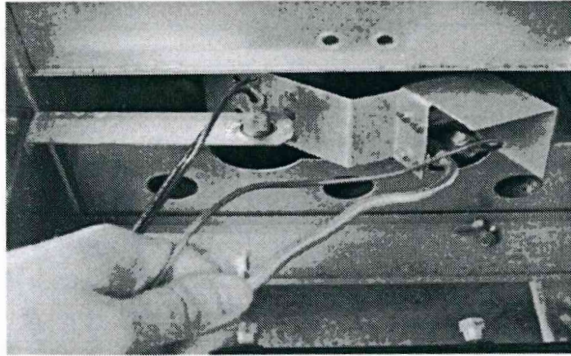
### **⚠ WARNING**

Fire, burn hazard. Do not operate boiler without burner doors in place. Failure to follow these instructions could result in death or serious injury.

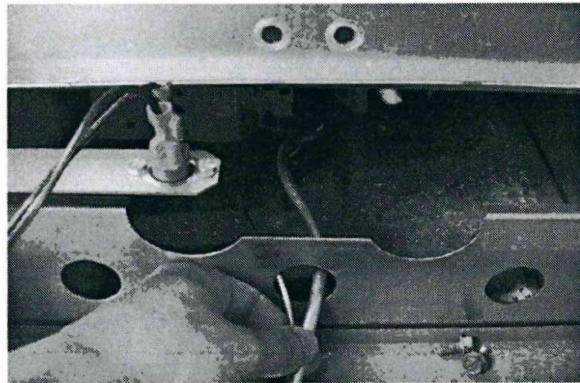
**NOTE:** Refer to **Figure 6** final pilot tubing configuration.

11. Remove pilot assembly from box. Spin assembly so it enters base between lower front panel and top of base. See Figure 3.
12. Push assembly into base. If needed, slide pilot tube and spark wire (or thermocouple) through hole in lower front panel. See Figure 4.
13. Rotate pilot assembly until it is vertical and holes in pilot assembly line up with pilot mounting holes in top of base. Verify base insulation is over top of pilot bracket, not in between bracket and base top. See Figure 5.
14. Fasten assembly using screws provided. After fastening assembly, reach in base above bracket and **verify insulation is laying flat against base front.**
15. Verify pilot assembly is correctly angled; at right angle with top of base.
16. Install burner tubes in base by sliding crimped end into slots in back of base. Rest front of burner on orifices. Replace upper burner door. See Figure 5.
17. Final pilot tubing configuration after completion all steps see Figure 6.
18. Refer to Installation, Operation and Maintenance Manual and labels affixed to boiler for lighting instructions.

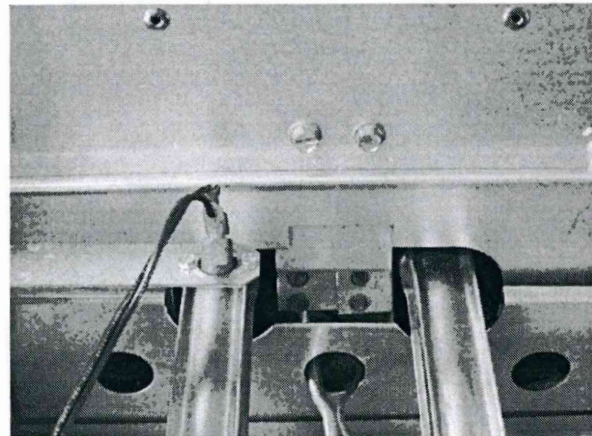
**Figure 3 - Install Pilot Assembly**



**Figure 4 - Installed Pilot Assembly (3 Section Shown)**



**Figure 5 - Install Burner Door and Tubes (3 Section Shown)**



**Figure 6 - Series 2 Final Pilot Tubing Configuration (2 Section Shown)**

