

# IGNITER BOOT CONVERSION KIT #550003118 INSTRUCTIONS

Installation shall be completed by qualified agency.

## ⚠ 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.

**Control installation shall conform to requirements of authority having jurisdiction or in absence of such requirements:**

- United States
  - National Fuel Gas Code, ANSI Z223.1/NFPA 54.
  - National Electrical Code, NFPA 70.
- Canada
  - Natural Gas and Propane Installation Code, CAN/CSA B149.1.
  - Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1

1. Remove plastic control chassis cover.

## ⚠ WARNING

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

2. Verify all power is OFF to boiler and control.

## ⚠ WARNING

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

3. Disconnect ignition cable from control.
4. Remove front boiler cover.
5. Turn off gas to appliance.
6. Loosen compression fitting located on top of gas valve. Disconnect pilot tube from gas valve.
7. Locate current pilot assembly in front of base. See Figure 1.
8. Remove top burner door and burner tubes.
9. Remove two (2) pilot bracket mounting screws holding pilot assembly in place.

## NOTICE

Important! Retain for future reference.

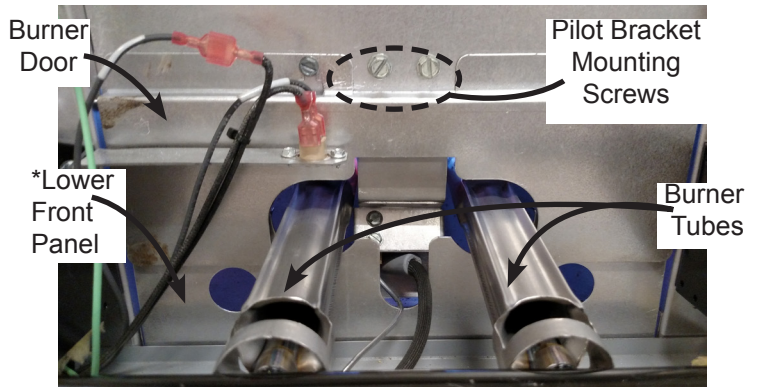
## NOTICE

Verify correct pilot assembly is used for the type of fuel used. Use of the wrong pilot Will result in improper operation of the boiler.

### PILOT REPLACEMENT KIT # 550003118 CONTENTS

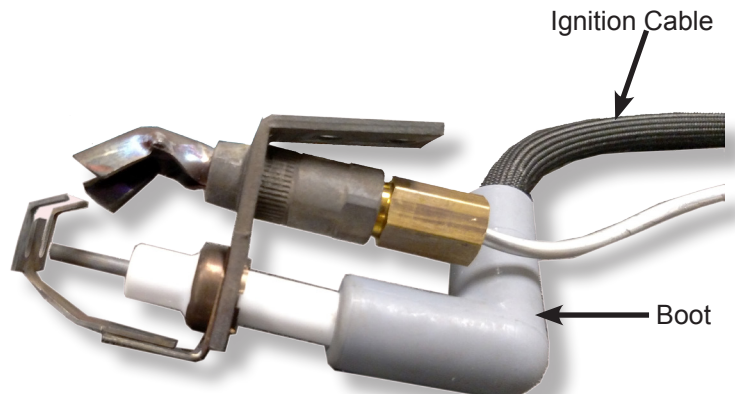
Description	Item Number	Qty
Pilot Tube	-	1
Compression Fitting	-	2
Ignition Wire	-	1
Protective Boot	-	1
Screw 10-32	-	2
Screw ¼-20 Self Tapping	-	2
Instructions	240011274	1

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



\* Not present on all models.

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



## KIT INSTALLATION INSTRUCTIONS

10. Remove pilot assembly from bracket. Remove ignition cable and boot. Install new cable and boot provided with kit. See figure 3.
11. Inspect pilot tube. If old pilot tube is damaged replace with new pilot tube and compression fittings provided with kit.
12. Reinstall pilot assembly on bracket.
13. This step is for 2 section boiler only. Bend pilot tubing as shown in figure 4 (tight 180°, then 90° back) in order to get it in between upper and lower burner doors.

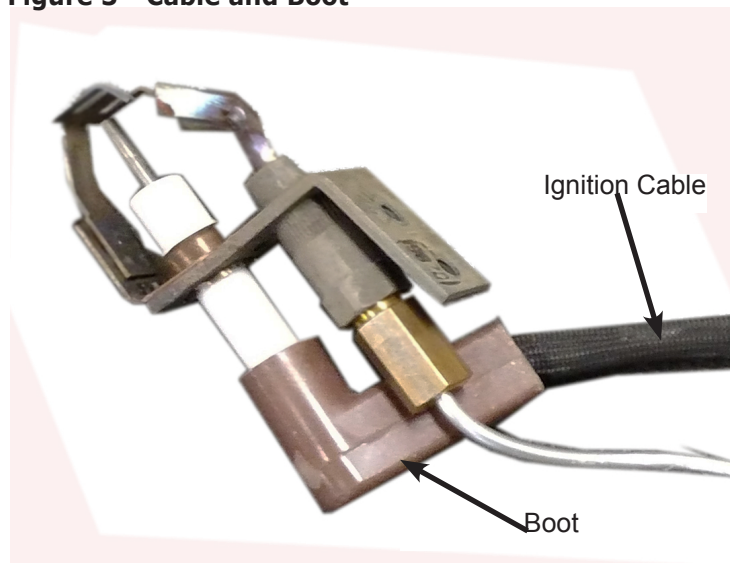
### **WARNING**

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

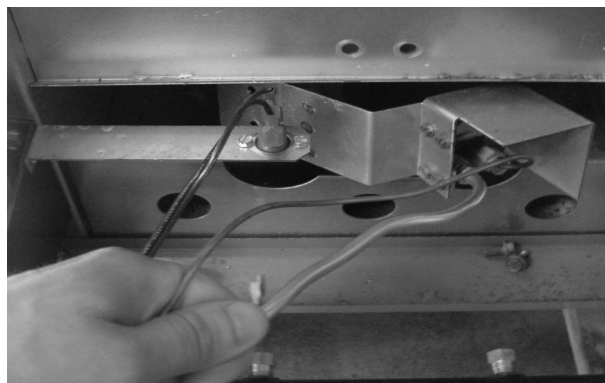
**NOTE:** Refer to **Figure 6** final pilot tubing configuration.

14. Spin assembly so it enters base between lower front panel and top of base. See figure 4.
15. Push assembly into base. If needed, slide pilot tube and spark wire through hole in lower front panel. See Figure 4.
16. Rotate pilot assembly until it is vertical and holes in pilot bracket 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 6.
17. Fasten assembly using screws provided. After fastening assembly, reach in base above bracket and verify insulation is laying flat against base front.
18. Verify pilot assembly is correctly angled; at right angle with top of base.
19. If new pilot tube is used, attach compression fitting to tube connection on gas valve. Insert tubing and tighten until ferrule is gas tight.
20. Install burner tubes in base by sliding crimped end into slots in back of base. Rest front of burner on orifices. Replace burner door. See Figure 6.
21. Final pilot tubing configuration after completion of all steps see Figure 7.

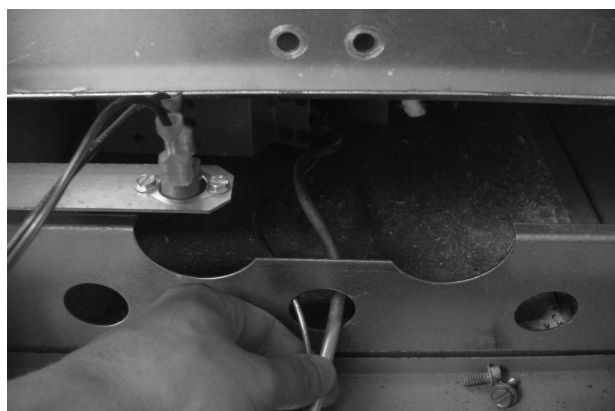
**Figure 3 - Cable and Boot**



**Figure 4 - Install Pilot Assembly**



**Figure 5 - Installed Pilot Assembly (3 Section Shown)**



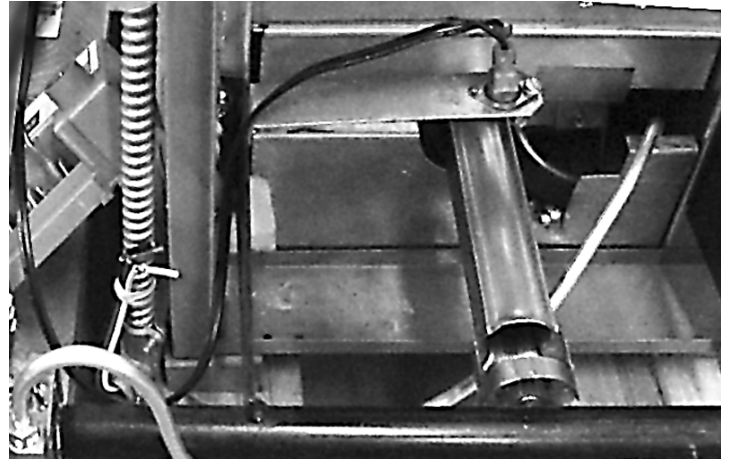
## KIT INSTALLATION INSTRUCTIONS

22. It may be necessary to adjust the wire at the base of the pilot to protect spark and sensor wiring from excess heat.
23. Route ignition cable as shown in illustration and connect to control. See figure 8.
24. Refer to Installation, Operation and Maintenance Manual and labels affixed to boiler for lighting instructions.
25. Installation not complete until appliance operation is verified per Installation, Operation & Maintenance Manual provided with boiler.

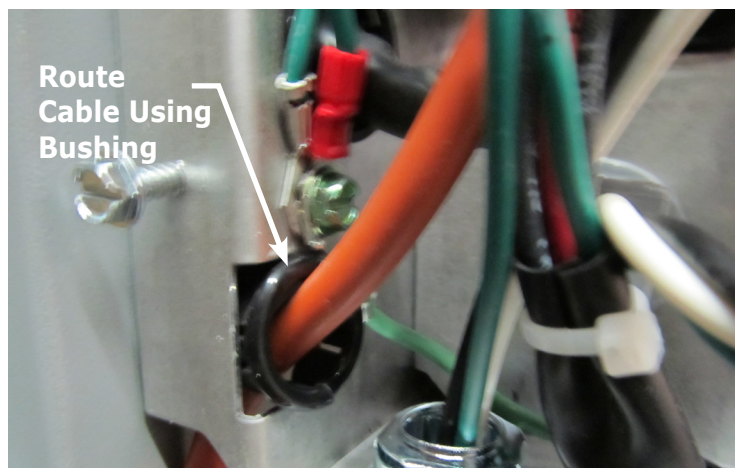
**Figure 6 - Install Burner Door and Tubes  
(3 Section Shown)**



**Figure 7 - Series 2 Final Pilot Tubing Configuration  
(2 Section Shown)**



**Figure 8 - Route Ignition Cable**



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