

BURNER SERVICE KIT INSTRUCTIONS

MAC/MAH/DCC/DCB

125/150 - Kit 550003155

165/205 - Kit 550003456

Kit 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 verified per Installation, Operation & Maintenance Manual provided with boiler.

⚠ CAUTION

Laceration, burn hazard. Metal edges and parts may have sharp edges and/or may be hot. Use appropriate personal protection equipment to include safety glasses and gloves when installing or servicing this appliance. Failure to follow these instructions could result in minor or moderate injury.

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. Turn power and gas off to appliance.
3. Remove two (2) screws at bottom of front jacket cover. Lift jacket up and off.

⚠ WARNING

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

4. Inspect combustion chamber through sight glass. Verify flame is not present. See figure 1.
5. Press tab and place control panel in downward position. See Figure 2.

Figure 1 - Sight Glass & Heat Exchanger Cover
(125 shown)

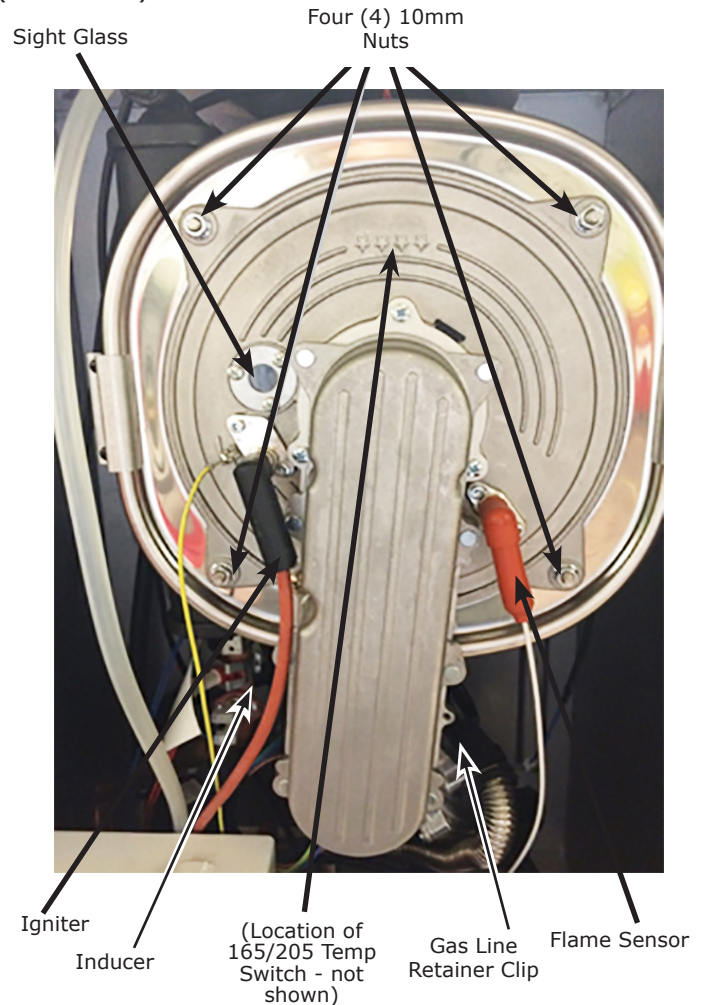
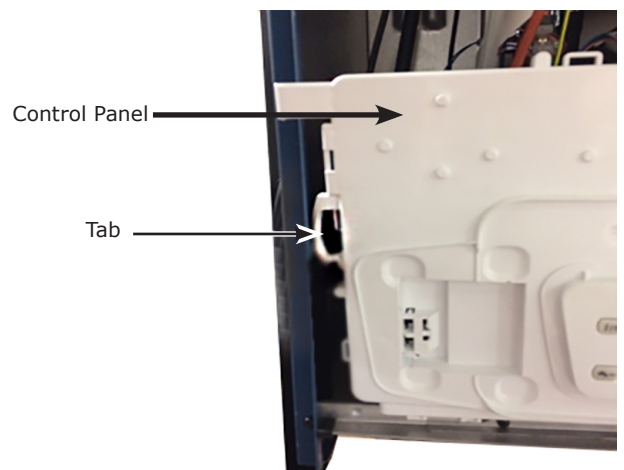


Figure 2 - Control Panel and Tab



BURNER SERVICE KIT INSTRUCTIONS

6. Remove gas clip on gas line. See Figure 1 and 3.
7. Remove two (2) electrical connectors from inducer. See Figure 3.
8. Remove Flame Sensor and Igniter plugs. Remove Igniter Ground Wire. See Figure 4.
9. Remove four Phillip screws securing inducer and gas train assembly. Remove assembly. See Figure 4.
10. Remove Burner gasket. See Figure 5.
11. Remove two (2) 3/32 Allen Head Screws securing burner in place. See Figure 5.
12. Remove and replace burner. Line burner up with screw mounting holes and burner alignment pin. See Figure 5.
13. Secure burner in place with two (2) 3/32 Allen Head Screws. Replace Burner gasket.
14. Replace Venturi gasket on inducer secured with four (4) Phillip screws securing gas train and inducer together. See Figure 3.
15. Secure gas train and inducer assembly to unit with four (4) Phillip screws.
16. Plug Two (2) electrical connectors into inducer. Replace O-ring between gas line and assembly. Fully seat gas line into assembly. Secure gas line in place with retainer clip.
17. Position control assembly in upward position.
18. Turn power and gas on.
19. Check for leaks.

Figure 3 - Gas Line Clip

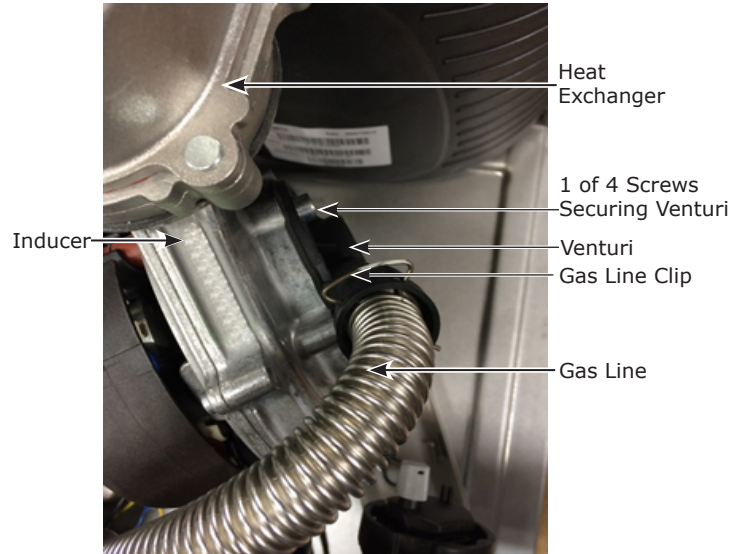
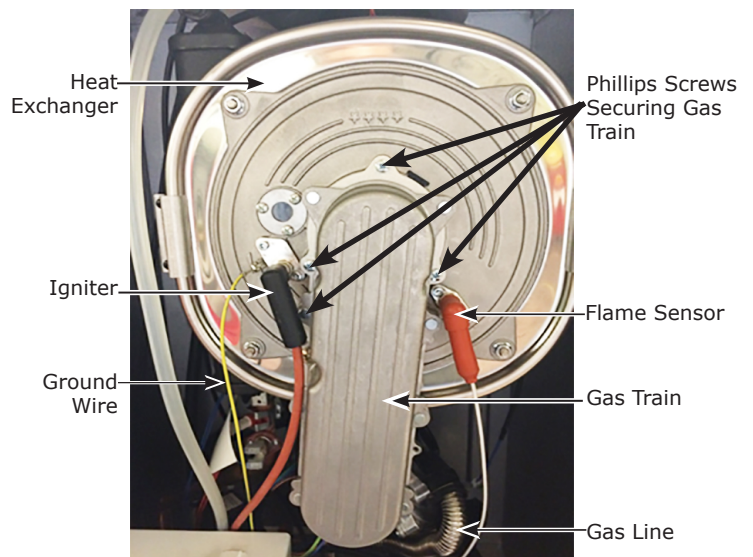


Figure 4 - Gas Train Assembly



Note When changing major components it is necessary to recalibrate the boiler.

BURNER SERVICE KIT INSTRUCTIONS

Figure 5 - Burner Gasket Tabs

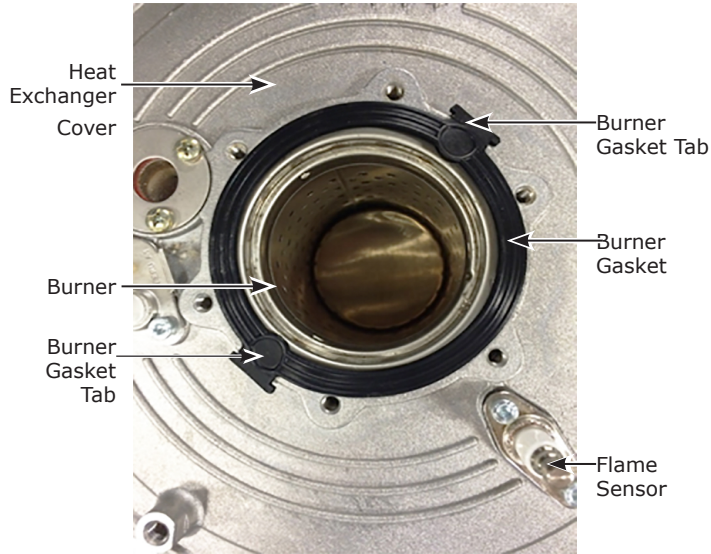
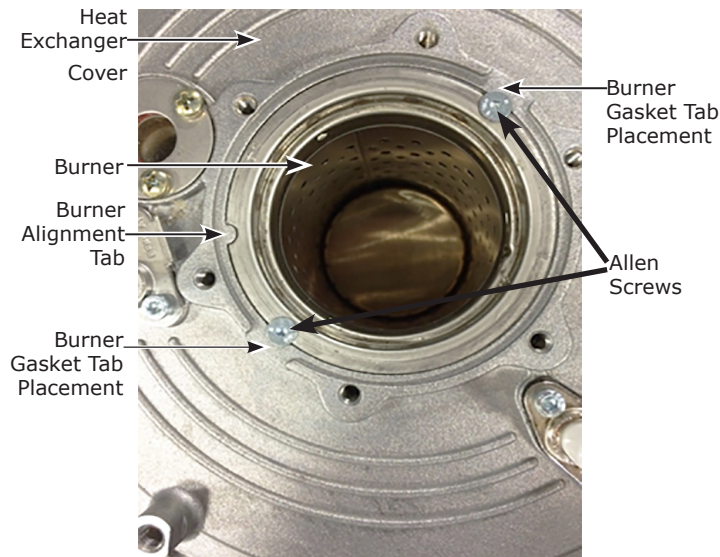


Figure 6- Burner Alignment and Removal



20. Perform Automatic Calibration Function

Note *Boiler must not shutoff during calibration. Open all heating zones in heating or DHW mode to ensure boiler does not shutoff.*

Before performing this function verify there are no heat demands in progress.

During this function ensure there is maximum heat exchange to the system in Heating or DHW mode (DHW request) to avoid boiler shutting off due to overheating.

Press **(O/R)** and **(III)** together and hold for about 6 seconds. When display indicates "On" press **(i/P)** within 3 seconds after pressing previous buttons.

NOTICE

Important: If display indicates "303" Automatic Calibration function has not been activated. Disconnect boiler from main power supply for few seconds and repeat procedure.

- A. When function is enabled, **(III)** and **(III)** will flash on the display.
- B. After ignition sequence, which can also take place after few attempts, boiler performs three operations. Each operation lasts about 1 minute:
 - maximum power
 - ignition power
 - minimum power
- C. Before moving to the following phase, from maximum power to ignition power and then to minimum power. **P** and **(III)** appear on the display.
- D. During this phase, power level reached by boiler and delivery temperature alternate on the display.
- E. When **(III)**, **(III)** and **(III)** flash together on the display, calibration function has terminated.
- F. Press **(O/R)** to exit the function. Display will show **ESC**.

21. Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.

22. Install front panel. Secure with two screws at bottom of front panel.

23. Verify proper operation.

125/150 Burner Service Kit 550003155 -Includes:		
Description	PART #	Qty
BURNER/FLANGE ASSY "burner"	-	1
BURNER GASKET ASSY	-	1
VENTURI GASKET	-	1
BURNER SERVICE KIT INSTRUCTIONS	240011401	1

165-205 Burner Service Kit 550003456 -Includes:		
Description	PART #	Qty
BURNER/FLANGE 55kW	-	1
BURNER GASKET	-	1
VENTURI GASKET, MIXER TO AIR/GAS	-	1
BURNER SERVICE KIT INSTRUCTIONS	240011401	1

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