

# FAN MIXER REPLACEMENT KIT INSTRUCTIONS

## MAC/MAH/DCC/DCB

### 125/150 - Kit 550003154

### 165/205 - Kit 550003454

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.

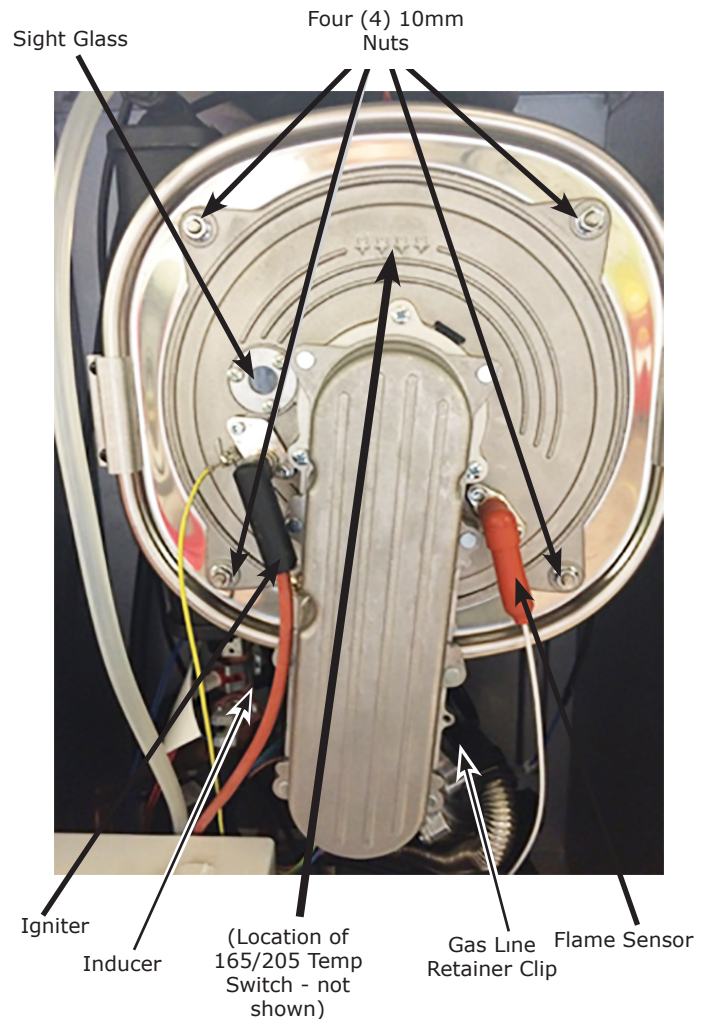
2. Turn power and gas off to appliance.
3. Remove two (2) screws at bottom of front jacket cover. Lift jacket up and off.

#### **⚠ WARNING**

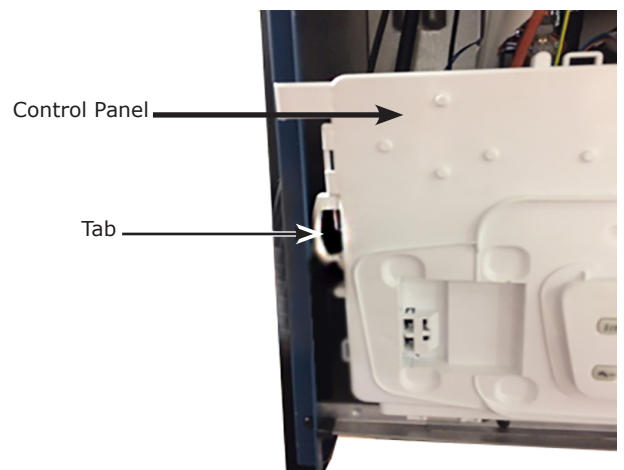
Burn hazard. Verify heat exchanger, igniter, and flame sensor have cooled or use appropriate personal protection equipment before removing.

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**



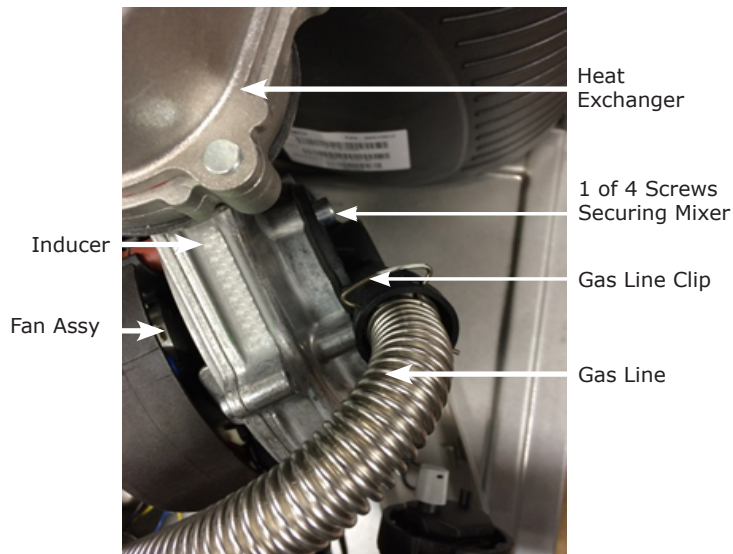
**Figure 2 - Control Panel and Tab**



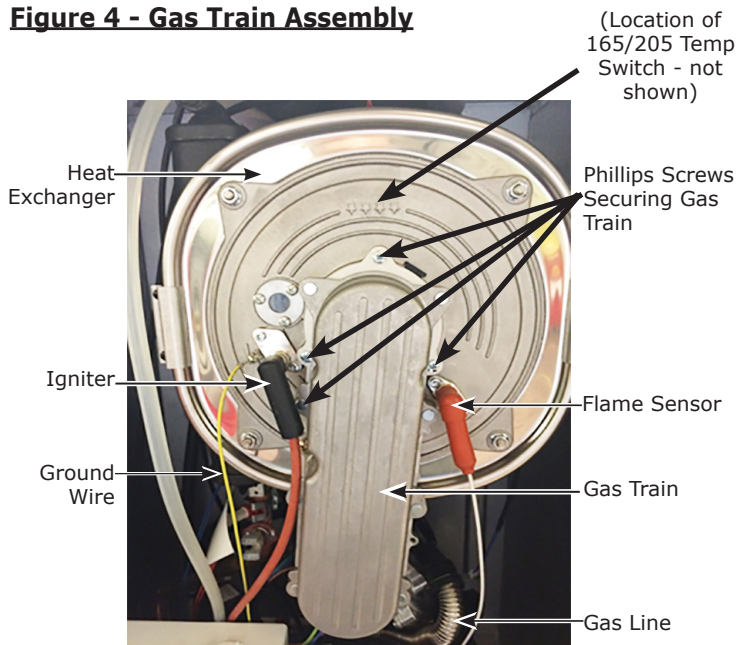
## FAN MIXER REPLACEMENT KIT INSTRUCTIONS

6. Remove gas clip on gas line. See Figure 1 and 3.
7. Remove electrical connectors from inducer.
8. Remove Flame Sensor and Igniter plugs. Remove Igniter Ground Wire. See Figure 4.
9. Remove four Philip screws securing Fan assembly and gas train assembly. Remove assembly. See Figure 4.
10. Remove two (2) of four (4) screws securing fan. Back out remaining two (2) screws until they are loose. Remove fan from assembly.
11. Remove gasket. Install new gasket.
12. Install new fan assembly to gas train. Secure in place using Philip screws.
13. Remove Burner gasket. Replace with new gasket. See Figure 5.
14. Mount assembly onto burner mounting plate using four (4) Philip screws. Note one screw is different place in lower left position. See Figure 4.
15. Remove O-ring from gas line. Replace with new O-ring.
16. Insert gas line back into fan assembly. Fully seat pipe into fan mixer assembly with new clip. Fasten clip to fan. See Figure 3.
17. Plug electrical connectors into Fan/Blower assembly. Position control assembly in upward position.
18. Turn power and gas on.
19. Check for leaks in gas line.

**Figure 3 - Gas Line Clip**



**Figure 4 - Gas Train Assembly**

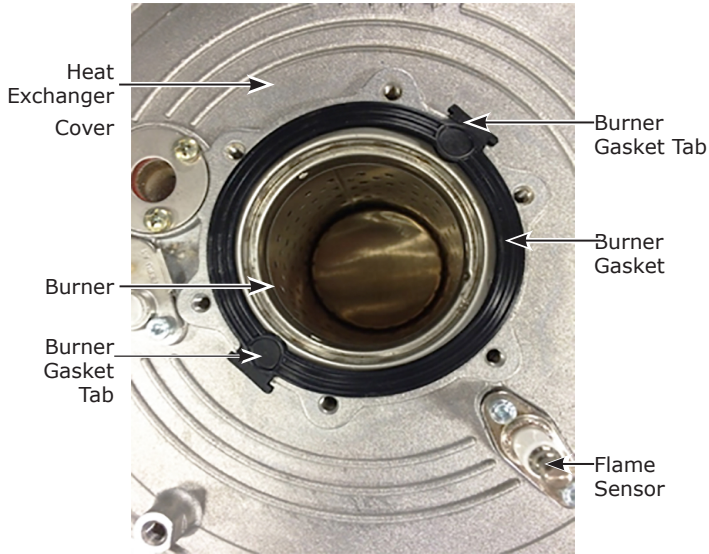


**Note**

When changing major components it is necessary to recalibrate the boiler:

## FAN MIXER REPLACEMENT KIT INSTRUCTIONS

**Figure 5 - Burner Gasket Tabs**



### 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.

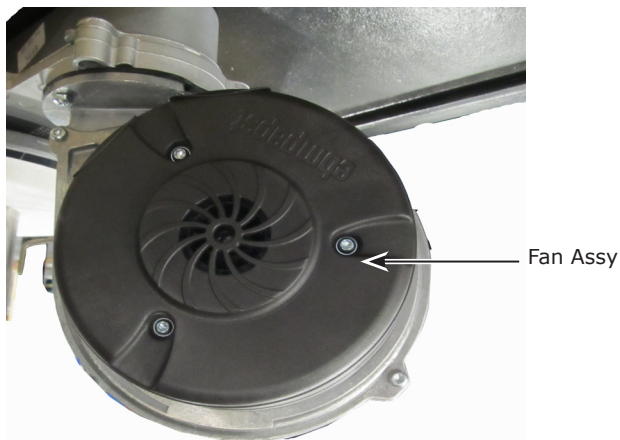
During this function ensure there is maximum heat exchange to the system in Heating or DHW mode (DHW request) to avoid boiler shutting off due to overheating.

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

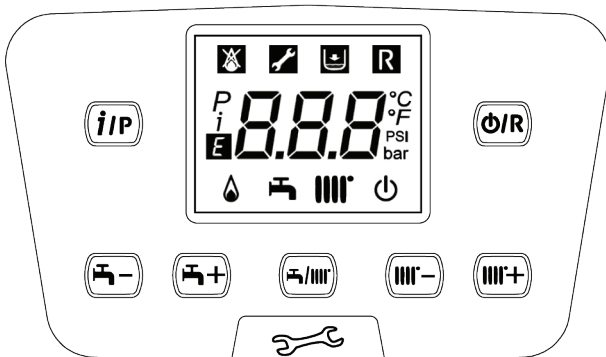
### NOTICE

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

**Figure 6 - Fan Assembly**



**Figure 7 - Control Cover**



- A. When function is enabled, **(I-)** 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 **(I-)** appear on the display.
- D. During this phase, power level reached by boiler and delivery temperature alternate on the display.
- E. When **(I-)**, **(I-)** and **(III-)** flash together on the display, calibration function has terminated.
- F. Press **(⏻/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.

## FAN MIXER REPLACEMENT KIT INSTRUCTIONS

<b>125/150 Fan Mixer Replacement Kit 550003154 -Includes:</b>		
<b>Description</b>	<b>PART #</b>	<b>Qty</b>
MIXER PL30 C1500107 (GAS TRAIN)	-	1
FAN NRG 118 CANADA (INDUCER)	-	1
VENTURI GASKET	-	1
CLIP FIX GAS PIPE	-	1
O-RING GAS PIPE 18 X 3 NBR	-	2
BURNER GASKET ASSY.	-	1
INSTRUCTIONS	240011400	1

<b>165/205 Fan Mixer Replacement Kit 550003454 -Includes:</b>		
<b>Description</b>	<b>PART #</b>	<b>Qty</b>
MIXER PL30 C1500107 (GAS TRAIN)	-	1
FAN (INDUCER)	-	1
VENTURI GASKET	-	1
CLIP FIX GAS PIPE	-	1
O-RING GAS PIPE 18 X 3 NBR	-	2
BURNER GASKET ASSY.	-	1
INSTRUCTIONS	240011400	1

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