

HEAT EXCHANGER REPLACEMENT KIT INSTRUCTIONS

Kit #550003197

HEAT ONLY & COMBI

CONDENSING, WALL MOUNTED, GAS BOILER

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 boiler. Failure to follow these instructions could result in minor or moderate injury.

Remove Old Heat Exchanger

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 the boiler.
3. Remove two (2) screws at bottom of front jacket cover. Lift jacket up and off.

⚠ WARNING

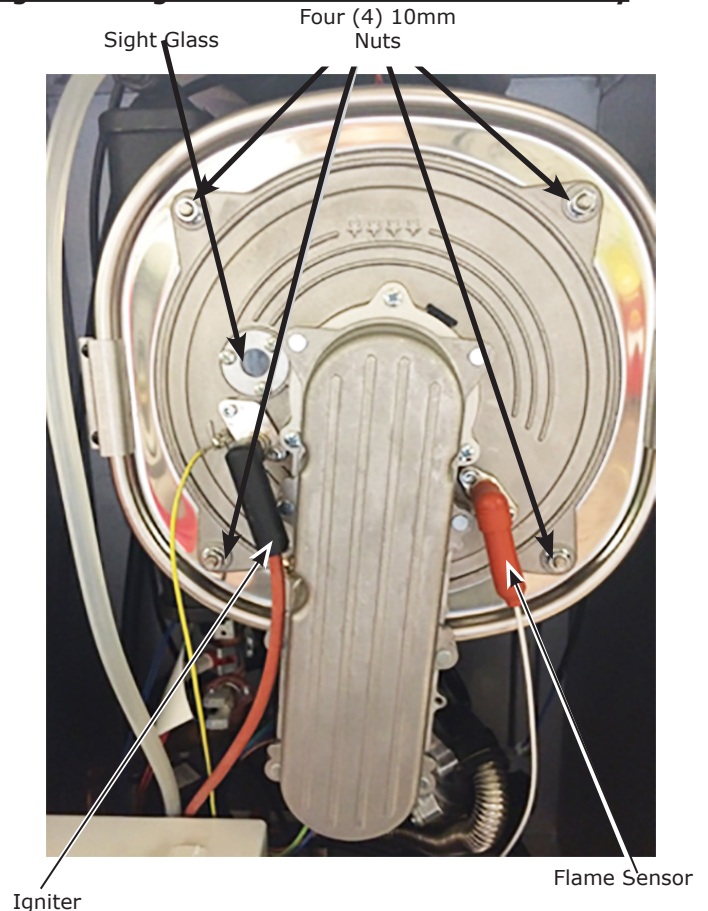
Burn hazard. Verify heat exchanger, igniter, and flame sensor have cooled or use appropriate personal protection equipment before removing.

4. Inspect combustion chamber through sight glass. Verify flame is not present. See Figure 1.
5. Allow Boiler to cool.
6. Drain boiler of water.
7. Press tab and place control panel in downward position. See Figure 2.

⚠ WARNING

Combustion chamber insulation in this product contains ceramic fiber material. Ceramic fibers can be converted to cristobalite in very high temperature applications. The International Agency for Research on Cancer (IARC) has concluded, Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group1). Avoid breathing dust and contact with skin and eyes. Use NIOSH certified dust respirator (N95). This type of respirator is based on the OSHA requirements for cristobalite at the time this document was written. Other types of respirators may be needed depending on the job site conditions. Current NIOSH recommendations can be found on the NIOSH website at <http://www.cdc.gov/niosh/homepage.html>. NIOSH approved respirators, manufacturers, and phone numbers are also listed on this website. Wear long-sleeved, loose fitting clothing, gloves, and eye protection. Apply enough water to the combustion chamber lining to prevent dust. Wash potentially contaminated clothes separately from other clothing. Rinse clothes washer thoroughly. NIOSH stated First Aid. Eye: Irrigate immediately. Breathing: Fresh air.

Figure 1 - Sight Glass & Burner Cover Assembly



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8. Disconnect pressure switch tubing. See Figure 3.
9. Remove Phillip screw from condensate collector retainer bracket. Remove condensate collector retainer. See Figure 3
10. Unplug both color coded sensors from top of heat exchanger. See Figure 4.
11. Remove fast purge drain line. See Figure 5.
12. Remove clips from gas line connecting to bottom of inducer. See Figure 6.
13. Unplug igniter wire, ground, and flame sensor wire. See Figure 1.
14. Unplug both plugs on inducer. See Figure 6.
15. Remove all four burner cover assembly nuts. See Figure 1.
16. Gently place burner cover assembly off to side.
17. Remove both water line retainer clips. See Figure 7
18. Remove Condensate retainer clip and line.
19. Push down slightly on both water lines taking care not to kink them, move them gently out of the way. See Figure 7.

CAUTION

Heat exchanger weight exceeds 30 pounds. Ensure heat exchanger is supported before removing mounting brackets. Failure to do so could result in minor or moderate injury.

20. Remove all four Philip screws holding heat exchanger mounting brackets in place. Push down on top of heat exchanger and remove.

Replace New Heat Exchanger

1. Place new heat exchanger in place. Align flue outlet and water lines. Place mounting brackets in place. Slightly tighten screws.
2. Align water lines. Clip into place with retainer clips. See Figure 7.
3. Replace condensate line and clip.
4. Tighten four screws holding heat exchanger mounting brackets in place.

Figure 2 - Control Panel and Tab

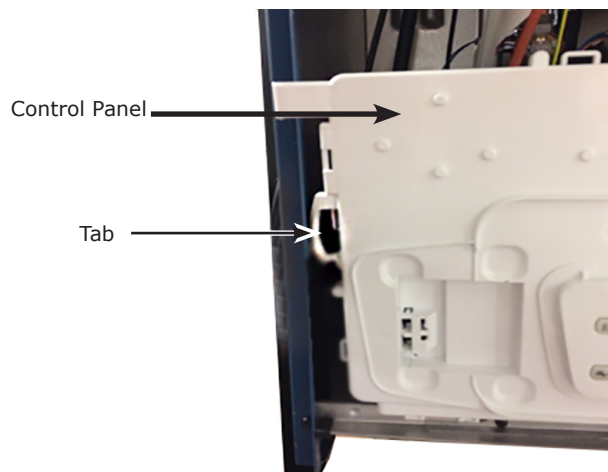


Figure 3 - Pressure Tubing and Flue Condensate Tray

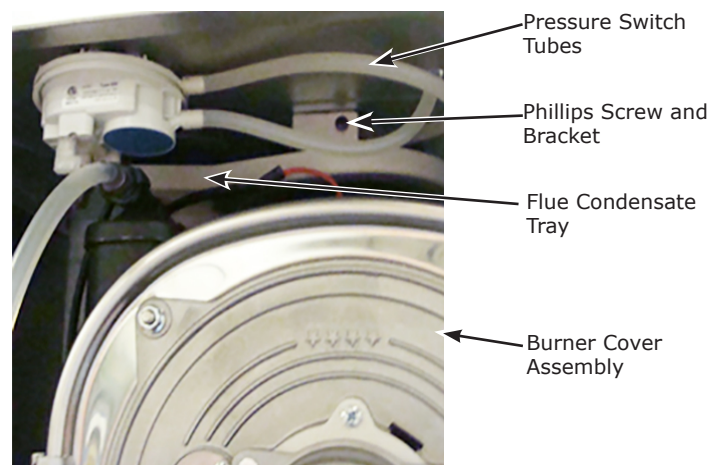
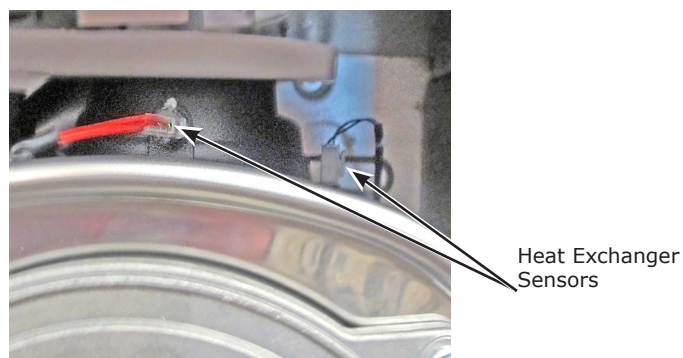


Figure 4 - Heat Exchanger Sensors



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Figure 5 - Fast Purge Drain Line

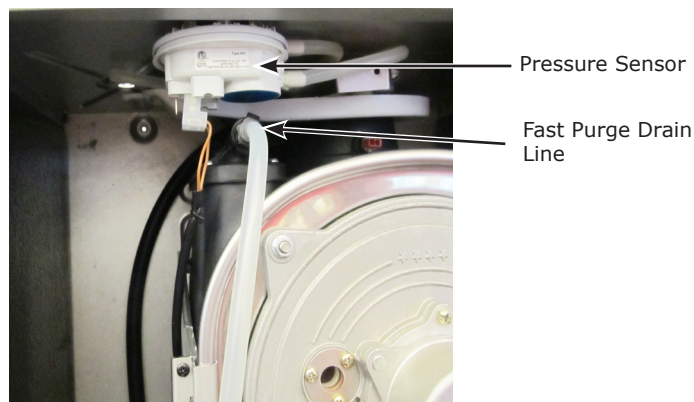


Figure 6 - Gas Line Clip

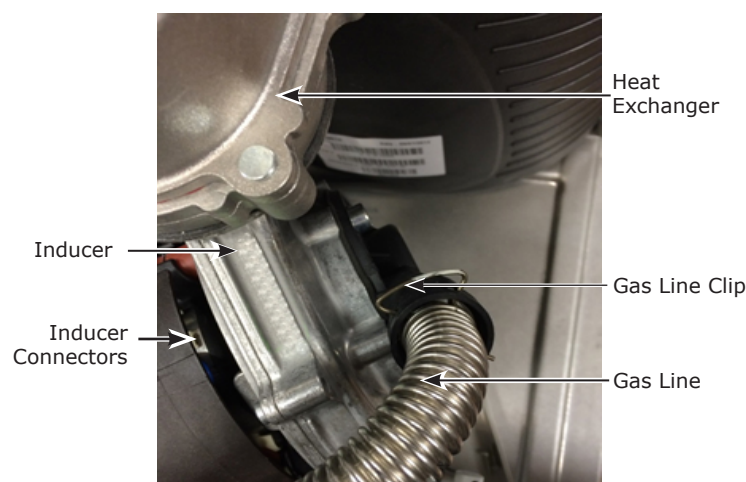
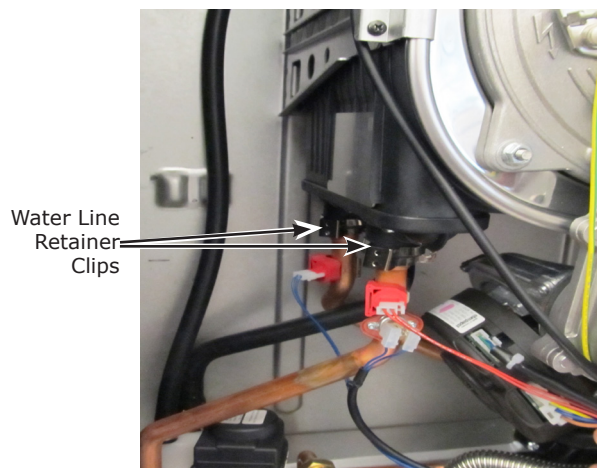





Figure 7 - Water Line Retainer Clips



5. Remove protective plastic from heat exchanger target wall if in place.
6. Place burner cover assembly in place and tighten four mounting nuts. See Figure 3.
7. Place gas line into bottom of inducer. Install retainer clip. See Figure 6.
8. Connect both inducer connectors into inducer. See Figure 6.
9. Connect both heat exchanger sensors . See Figure 4.
10. Install condensate collector retainer clip. Tighten Philip screw securing condensate connector. See Figure 3.
11. Connect pressure switch tubing. See Figure 3.
12. Connect fast purge drain line. See Figure 5.
13. Connect igniter wire, ground and flame sensor wire. See Figure 1.
14. Fill boiler with water. Purge boiler using fast purge drain line. See Figure 5.
15. Turn power and gas on.
16. Check for proper operation and leaks.
17. Commission Boiler following the Commissioning Guide included with this kit. See **NOTE** below.
18. Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
19. Install front panel. Secure with two screws at bottom of front panel.
20. Verify proper operation.

Note When changing major components it is necessary to recommission the boiler:

- A. Press together for 6 seconds:  and  buttons.
- B. When screen display indicates "ON" you have 3 seconds to press the  button.
- C. System will self adjust for 6-7 minutes. Then shutdown and wait for call for heat.

HEAT EXCHANGER REPLACEMENT KIT INSTRUCTIONS

Heat Exchanger Replacement Kit 550003197 -Includes:		
Description	PART #	Qty
HEAT EXCHANGER	-	1
COMMISSIONING GUIDE	240011376	1
HEAT EXCHANGER REPLACEMENT KIT INSTRUCTIONS	240011547	1

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