

# 95M HEAT EXCHANGER/EXHAUST VENT REPLACEMENT KIT INSTRUCTIONS

Kit #550001326

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.

Tools required:

- 5/16" Wrench
- 3/8" Nut Driver, Wrench or Socket
- 1/4" Nut Driver, Wrench or Socket
- 1/2" Hex Head Screw Driver
- (2) Crescent Wrench

### Heat Exchanger Replacement Instructions

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. Remove front, top and side panels.

## **WARNING**

Burn hazard. Verify heat exchanger has cooled or use appropriate personal protection equipment before removing heat exchanger.

3. Inspect combustion chamber through sight glass. Verify flame is not present.
4. Remove igniter:
  - Remove two (2) 8-32 hex nuts using 3/8" nut driver, wrench or socket.
  - Pull igniter out of heat exchanger.
  - Remove old igniter gasket. Clean heat exchanger surface as needed.
5. Remove blower:
  - Remove four (4) 1/2" screws. See Figure 2.
  - Remove blower.
6. Remove exhaust vent:
  - Disconnect condensate trap from tee.
  - Loosen hose clamps and remove exhaust vent from heat exchanger.
7. Remove return water piping. See Figure 2.
8. Remove four (4) bolts holding heat exchanger to base.

## **NOTICE**

Manufacturer recommends replacing exhaust tee/condensate trap when replacing the heat exchanger.

Figure 1 - Remove Panels Shown

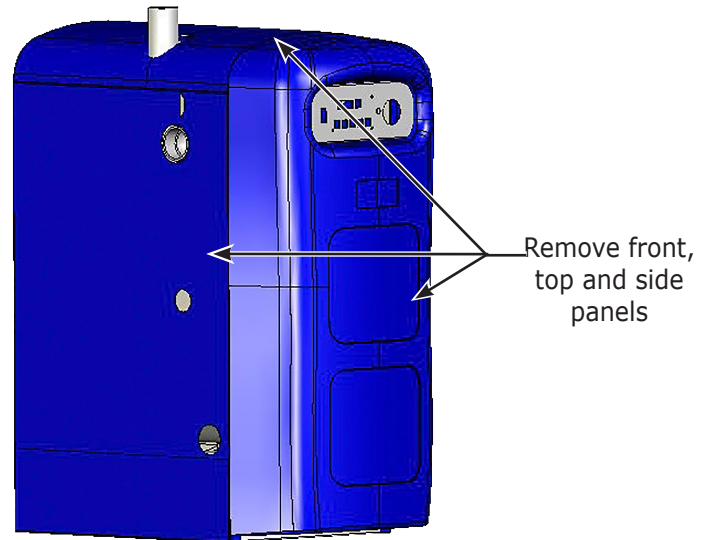
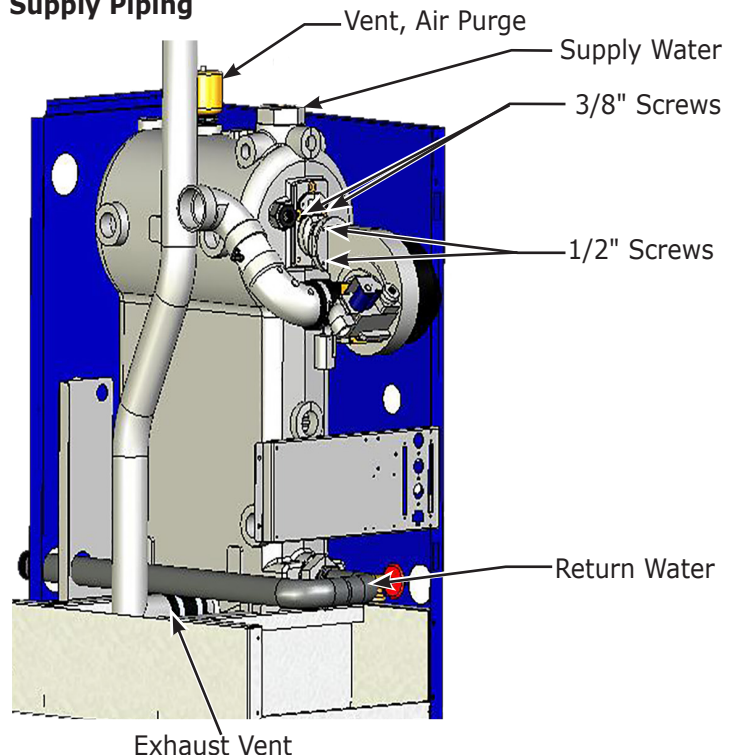


Figure 2 - Remove Igniter, Blower, Exhaust Vent and Supply Piping



## REPLACEMENT KIT INSTRUCTIONS

- Remove the following: See Parts List for location verification.
  - Safety release valve piping at first elbow exiting heat exchanger.
  - Air vent located top of boiler. See Figure 2.
  - Aquastat with well control. See Figure 3.
  - Low Water Cutoff (LWCO) probe and well. See Figure 3.
  - Temperature sensors that are placed on supply and return water openings.
- Remove heat exchanger from base. Position new heat exchanger onto base.
- Attach bolts to new heat exchanger securing to base.
- Attach all water connections. Attach blower and sensors.

### Condensate Exhaust Replacement Instructions:

- Installation shall be completed by qualified agency.
- Instructions are for replacing the exhaust tee and condensate trap assembly with drain exiting the bottom of the exhaust tee on boiler allowing boiler to properly drain.
- Particulate will collect in the drain plug on exhaust tee. Drain plug on exhaust tee can be removed for cleaning.
- 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.

- Remove front, top and side jacket panels.

### **⚠ WARNING**

Burn hazard. Verify heat exchanger has cooled or use appropriate personal protection equipment.

- Cut exhaust pipe after both bends in exhaust vent pipe. See Figure 4.
- At boiler exhaust outlet, loosen downstream pipe clamp on rubber coupling.
- Remove assembly from rubber coupling.
- Assemble parts 1 and 6. Slide coupling into rubber hose at boilers exhaust outlet.
- Use provided CPVC couplings and straight pipe to link existing venting with new exhaust tee.
- Assemble remaining kit parts.
- Remove existing condensate trap.
- Install new condensate trap in same configuration as removed trap.
- Connect existing line with new 1/2" condensate line coupling.
- Verify all joints are air-tight and cemented.
- Verify hose clamp at exhaust outlet is tightened.
- Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
- Verify proper operation by following START UP PROCEDURE in Installation, Operation & Maintenance Manual.
- Install front, top and side jacket panels.

### **⚠ WARNING**

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Figure 3 - Remove Heat Exchanger

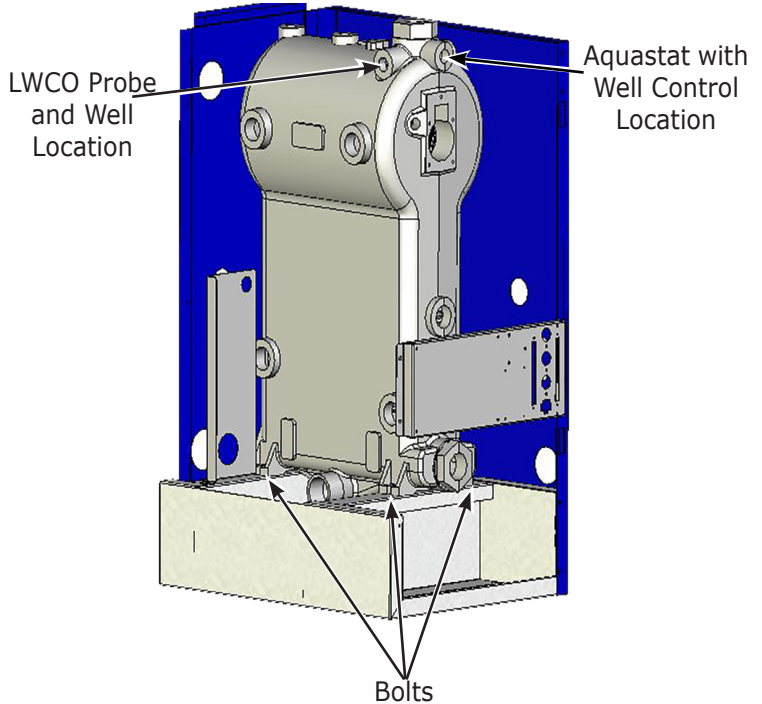


Figure 4 - Exhaust Pipe

