

ECR97 BURNER SERVICE KIT INSTRUCTIONS

ECR97 - 075/100 Kit #550002231

⚠ WARNING

Kit shall be installed by qualified service agency in accordance with manufacturer's instructions and all applicable codes and requirements of authority having jurisdiction. If information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. Qualified service agency is responsible for proper installation of this kit. Installation is not proper and complete until operation of appliance is checked as specified in manufacturer's instructions supplied with the kit.

⚠ CAUTION

Shut "OFF" gas supply prior to disconnecting electrical power, before proceeding.

Burner Service

1. Tools required:
 - (2) Crescent wrenches
 - Regular screwdriver
 - T25 Torx driver
 - 1/4" drive ratchet
 - 7/16" socket
 - 5/32" Allen wrench or socket
2. Follow instructions To Turn Off Gas to Appliance found on Operating Instructions label inside jacket or in Installation, Operation & Maintenance Manual.
3. Turn OFF manual main gas shutoff valve external to boiler.
4. Remove jacket from boiler. Grasp front cover at lip behind plastic smoke-colored control cover. Pull forward to release snap action latches. Lift jacket up and off bottom jacket rest.
5. Visually inspect through sight glass verify no flame is present.
6. Disconnect flexible gas line from gas shutoff valve.

NOTICE

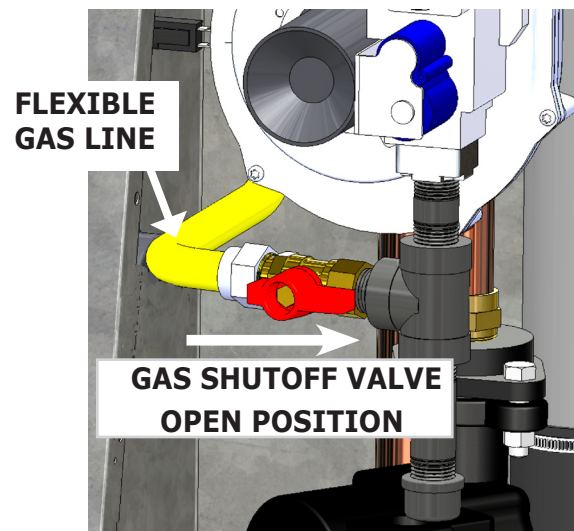
Use two (2) wrenches when loosening and tightening flexible gas line. Boiler's gas valve can be damaged if subjected to excessive torque.

7. Disconnect 2 wire harnesses from blower motor.
8. Remove retaining screw and disconnect gas valve wire harness from gas valve.
9. Remove pressure switch hose from air inlet barb fitting.
10. Disconnect high voltage lead from igniter.
11. Remove 2 orange wires from pressure switch, set aside.

PARTS LIST

ECR97 075/100 Burner Inspection Kit #550002231		
DESCRIPTION	PART #	QTY
1/4-20 Nut	-	4
Burner Sleeve, Refractory 75/100 ECR97	-	1
Gasket, Air/Fuel Inlet	-	1
Instructions	240008659	1

Figure 1 - Gas Shutoff Valve



ISO 9001-2008 Certified Company

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12. Remove gas valve/blower motor/air inlet assembly; while supporting gas valve/blower motor/air inlet assembly, use 1/4" drive ratchet with 7/16" socket to remove (4) nuts holding air inlet to heat exchanger. Lift gas valve/blower motor/air inlet off studs. See Figure 2.
13. **Model ECR97 - 100 only.** Unfasten (2) heat exchanger buckle-straps, allowing heat exchanger slack, to lean forward. Grasp burner tube and pull while leaning heat exchanger forward. Allows burner to clear top lip of chassis. See Figure 2.
14. Remove round gasket from heat exchanger, and if refractory did not come out with burner, remove now. See Figure 3.

Replacement Instructions:

1. Slide new refractory onto burner. See Figure 3.
2. **Model ECR97 - 100 only.** Lean heat exchanger forward with one hand, slide burner/refractory into heat exchanger.
3. **Model ECR97 - 100 only.** Refasten (2) buckle-straps on heat exchanger.
4. Install new round air/fuel inlet gasket.
5. Attach gas valve/blower/air inlet assembly onto heat exchanger studs, fasten with (4) nuts. Make sure round air/fuel inlet gasket does not shift.
6. Attach Igniter cable, air pressure switch hose, gas valve harness, (2) wire harnesses on blower motor, flexible gas line.

NOTICE

Flexible gas line is flare connection, no pipe sealant necessary.

7. Replace 2 orange wires on pressure switch.
8. Follow Operating Instructions to return boiler to operation.
9. Follow start-up instructions in Installation, Operation and Maintenance Manual to restore and verify operation.
10. Install jacket.

Figure - 2 Blower Motor with Air Inlet Assembly

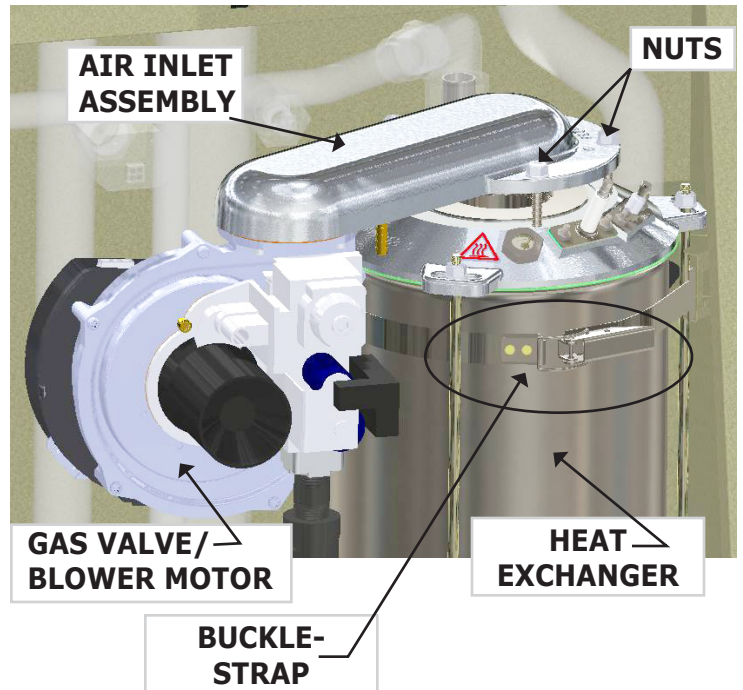


Figure 3 - Burner with Refractory

