

**FLAME SENSOR KIT
INSTRUCTIONS**
050,075,100 - Kit #550002283
150,200 - Kit #550002284
299 - Kit #550002810

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.

Flame Sensor Removal

1. Tools required:
 - 11/32" nut driver, wrench or socket
2. 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.

3. Remove front jacket panel(s).

⚠ WARNING

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

4. Inspect combustion chamber through sight glass. Verify flame is not present. See figure 1.
5. Disconnect flame sensor cable from flame sensor.
6. Remove two (2) 8-32 hex nuts using 11/32" nut driver, wrench or socket. See figures 1 & 2.
7. Disconnect ground wire from stud.
8. Pull flame sensor out of heat exchanger.

Figure 1 - Flame Sensor and Nuts [050-200 MBH]

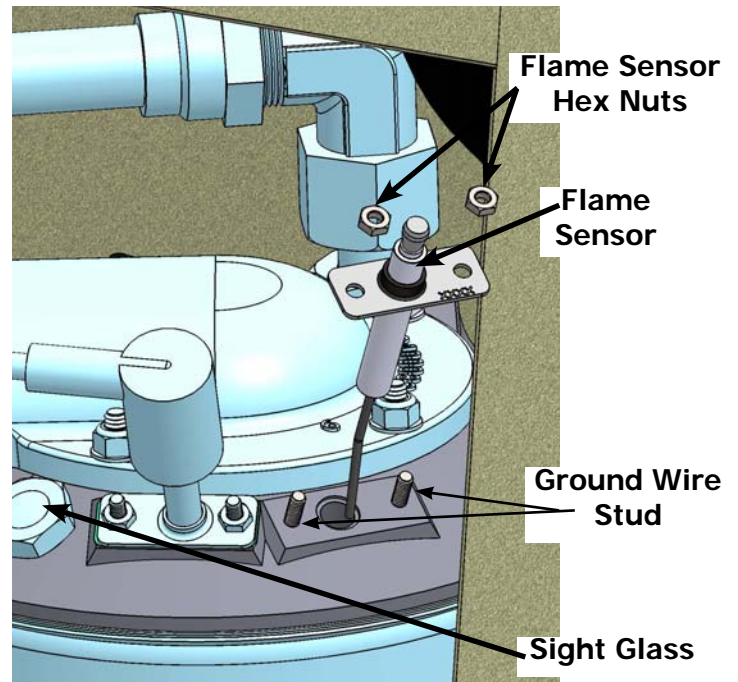
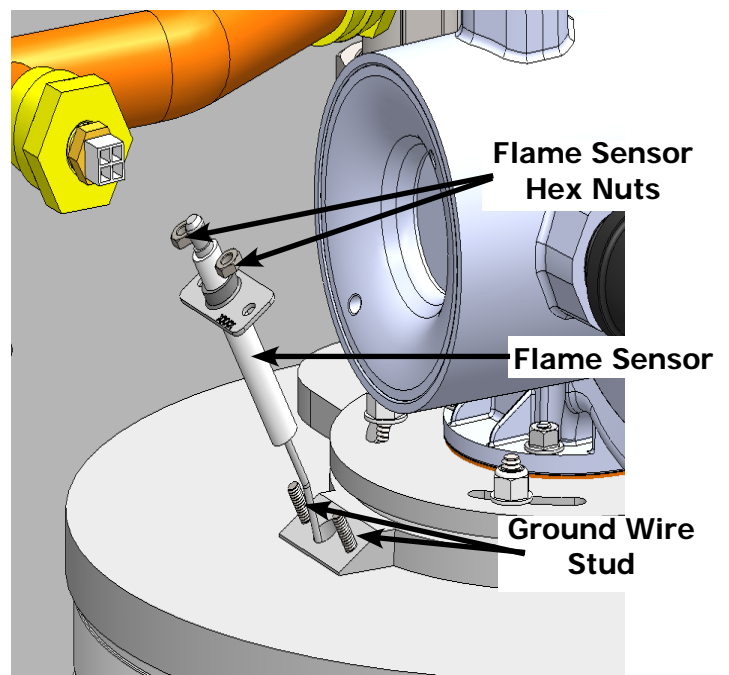


Figure 2 - Flame Sensor and Nuts [299 MBH]



FLAME SENSOR KIT INSTRUCTIONS

Flame Sensor Install

1. Insert flame sensor into heat exchanger. Flame sensor bracket is offset and will only allow insertion in proper orientation.

Note: Flame sensor does not require gasket. Flame sensor o-ring seals flame sensor to heat exchanger.

2. Place flame sensor ground wire onto ground wire stud. See figures 1 & 2.
3. Secure flame sensor and flame sensor cable with two (2) 8-32 hex nuts. Do not overtighten (maximum 5lb-ft).
4. Attach flame sensor cable to flame sensor.
5. Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
6. Verify proper operation by following START UP PROCEDURE in Installation, Operation & Maintenance Manual.
7. Install front panel(s).

PARTS LIST

050,075,100 MBH Flame Sensor Kit #550002283		
DESCRIPTION	PART #	QTY
8-32 Nut	-	2
Flame Sensor 050,075,100 MBH	-	1
Instructions	240008593	1
150,200 MBH Flame Sensor Kit #550002284		
8-32 Nut	-	2
Flame Sensor 150/200 MBH	-	1
Instructions	240008593	1
299 MBH Flame Sensor Kit #550002810		
8-32 Nut	-	2
Flame Sensor 299 MBH	-	1
Instructions	240008593	1

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