

# HEAT EXCHANGER RETROFIT KIT INSTRUCTIONS


**Kit #'s 550003041, 550003042,  
550003043, 550003044, 550003045**

Kit installation shall be completed by qualified agency.

Original heat exchanger for boiler is no longer available, it is replaced by a new block ("A"). Install parts listed to maintain boiler operation.

2 and some 3 section models **DO NOT** require use of replacement parts. See table 1.

- Attach included label to side of boiler near nameplate for future reference.
- New Label is provided to indicate heat exchanger model change to "A".
- Bracket is provided to mount rollout switch and spill switch in new location on models indicated in Table 1 only.
- Spark pilot wire shield applies to intermittent spark units using "A" series block only.
- Pilot bracket assembly is now welded one piece, includes L-side shield.

 <b>WARNING</b>
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.

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.

 <b>WARNING</b>
Electrical shock hazard. Turn OFF electrical power supply at service panel.

 <b>WARNING</b>
Explosion hazard. Lockout/tagout gas supply at gas meter or other location external to boiler.

 <b>WARNING</b>
Burn hazard. Verify heat exchanger has cooled or use appropriate personal protection equipment before removing heat exchanger.

**Table 1 - Changes to UH15B, 15B**

Kit Numbers	NA	NA	550003041	550003042		550003043		550003044	550003045
Input (Mbh)	45	70	96	120	145	175	195	245	295
Sections	2	3		4		5		6	7
Label			✓	✓	✓	✓	✓	✓	✓
Replace Flue Collector			✓					✓	✓
Replace Base & Rollout Switch Bracket				✓	✓				
Replace Rollout Switch Bracket On Base Panel						✓	✓	✓	✓
Draft Hood w/ New Blocked Vent Safety Switch Bracket				✓	✓	✓	✓		
Replace Burner Door, Lower Access Panel Door, & Pilot Bracket Assembly				✓	✓	✓	✓	✓	✓

# HEAT EXCHANGER REPLACEMENT KIT INSTRUCTIONS

## **⚠ WARNING**

Asphyxiation hazard. Replace burner door with replacement heat exchanger where provided. Discard original burner door. Failure to follow these instructions could result in death or serious injury.

1. Replace Burner Door.
  - Replacement Burner Door is required on sizes indicated in Table 1.
  - Replacement Base (included) is required on 4 section unit.
  - Discard original burner door to prevent reuse.
2. Relocated Flame Rollout Switch requires relocation with burner door replacement, reducing potential for nuisance shut downs.
  - Label all wires for reference before disassembly.

Figure 1 - Replacement Burner Door with Tabs

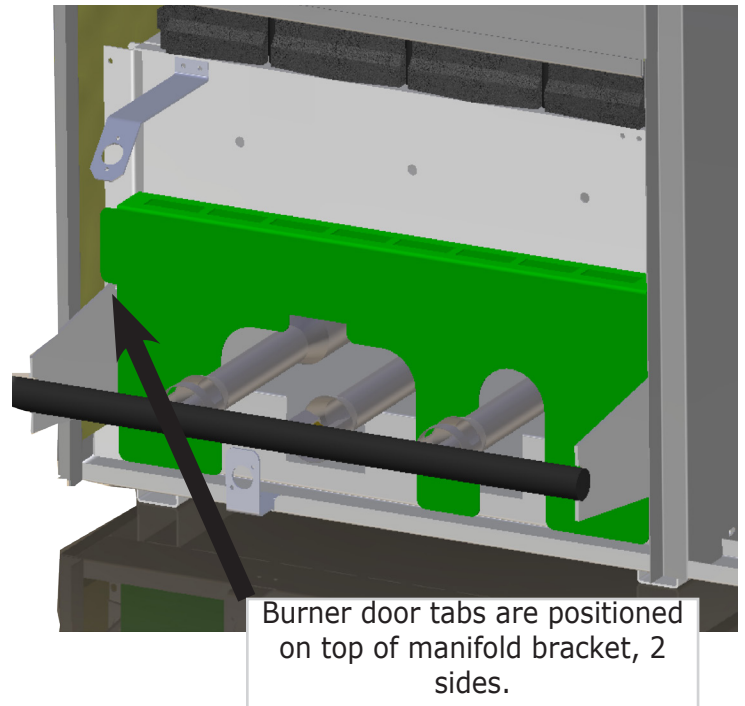
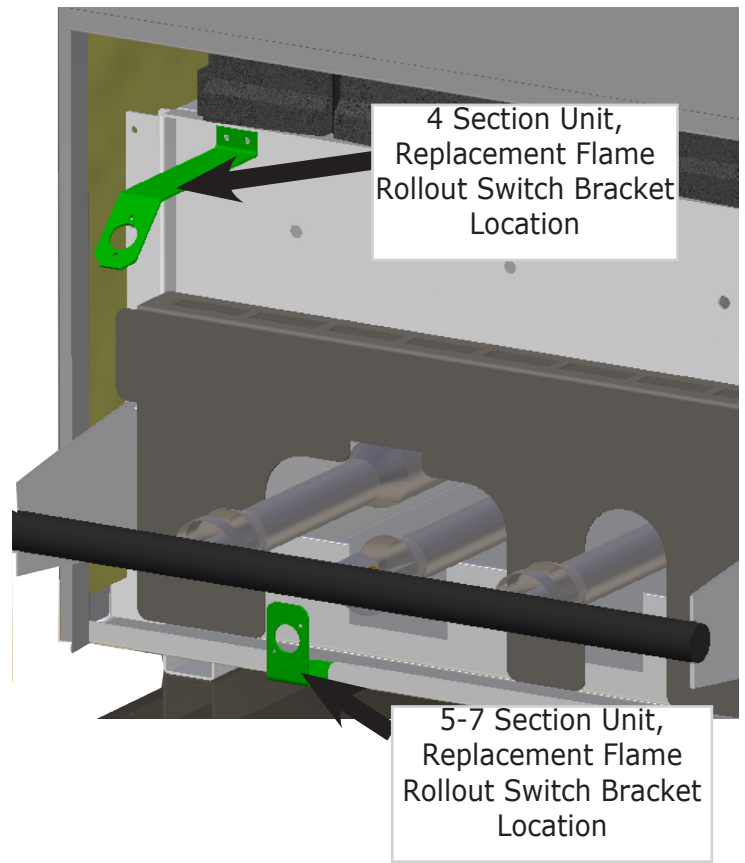
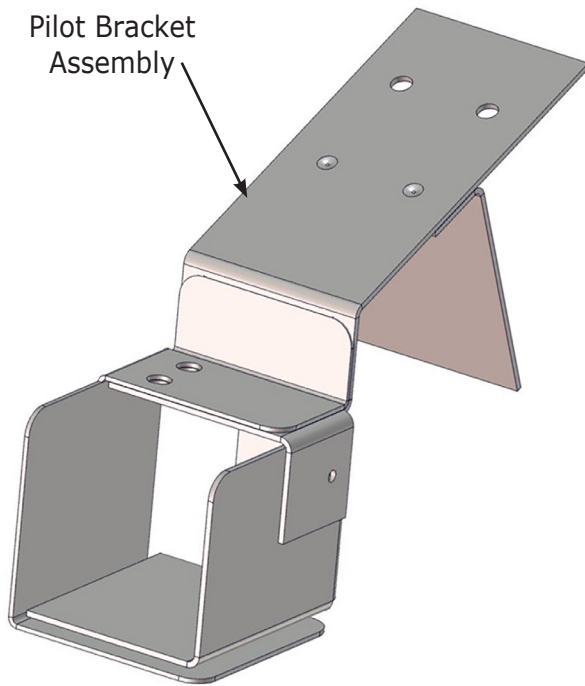


Figure 2 - Replacement Flame Rollout Switch Bracket



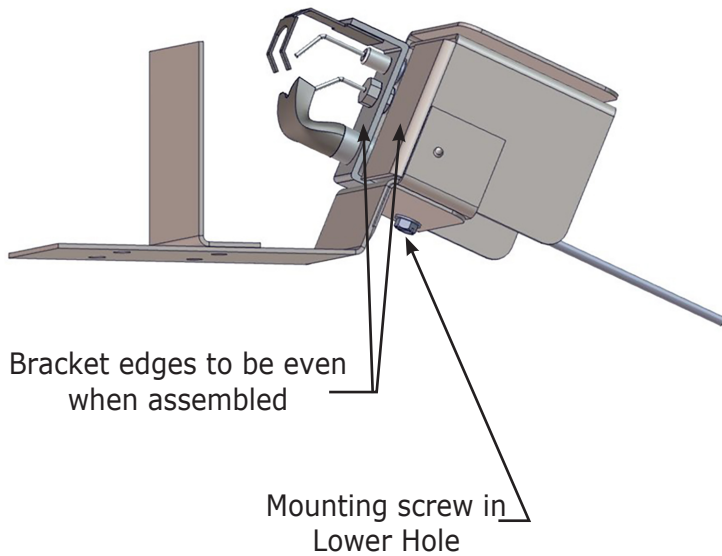
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**Figure 3 - Pilot Bracket Assembly**



3. Pilot Bracket Assembly on Spark Ignition models is a one piece welded assembly which includes the Pilot Shield Bracket, see figure 3. Use original Spark Ignitor Pilot Assembly and mounting screws (5). Assemble as shown in figure 4.

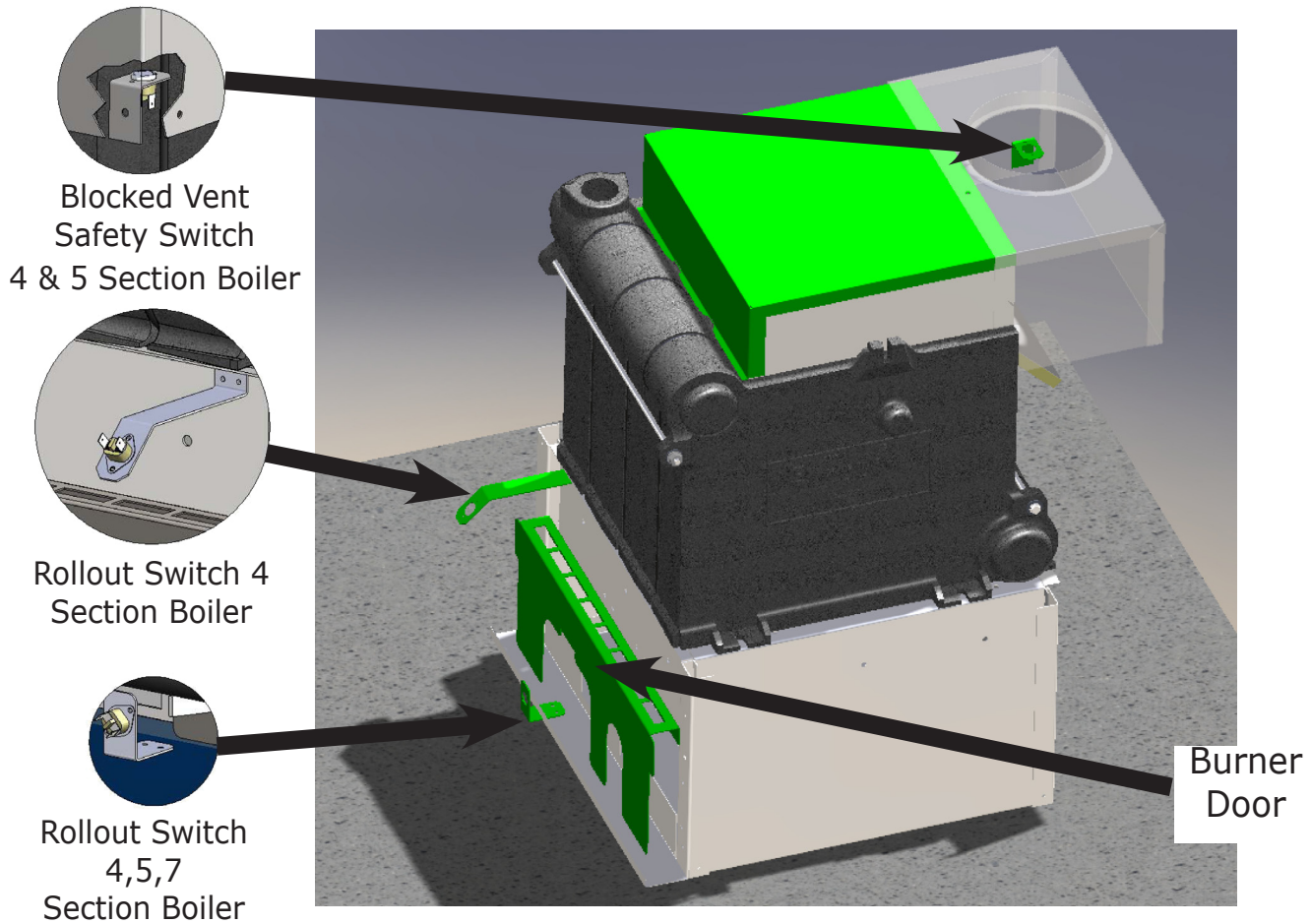
**Figure 4 - Pilot Spark Ignitor Mounting**



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4. Reorientation of Blocked Vent Safety Switch (6 Section Boiler only). See Figure 5.

**Figure 5 - Heat Exchanger**



## HEAT EXCHANGER REPLACEMENT KITS - PARTS LISTING

Sections	3	4	5	6	7
Input (MbH)	96 - only	120-145	175-195	245	295
Kit #	550003041	550003042	550003043	550003044	550003045
Heat Exchanger Block	YES	YES	YES	YES	YES
Base Assembly	-	3001823	-	-	-
Flue Collector	109008571	-	-	-	109008573
Screws 5/16x1-1/4	YES (2)	YES (4)	-	-	YES (2)
Rollout Switch Bracket (on base panel)	-	-	3001896	3001905	3001906
Rollout Switch Bracket	-	109008517	-	-	-
Screws 1/4-20 x 1/2 Self Tap	-	YES (2)	YES (2)	YES (2)	YES(2)
Pilot Shield (Spark units only)	-	YES	YES	YES	YES
Screws Slotted 8-18 x 1/2	-	YES (2)	YES (2)	YES (2)	YES (2)
Burner Door	-	109008519	10909076	109009077	109009078
Label	YES	YES	YES	YES	YES
Instructions	240011039	240011039	240011039	240011039	240011039

NOTE: Items denoted as "YES" are not sold separately.