



Product Notification

Chi-town Flame Switch - Retrofit

The HH-3977 Flame Switch has been approved to replace HH-1097 & HF-7640 Flame Switches on Chi-town heaters.



Figure 1. Flame Switch should be mounted so it lies across the burner. Try to keep the switch in a position where the flame will cover the middle portion of the ceramic coating.

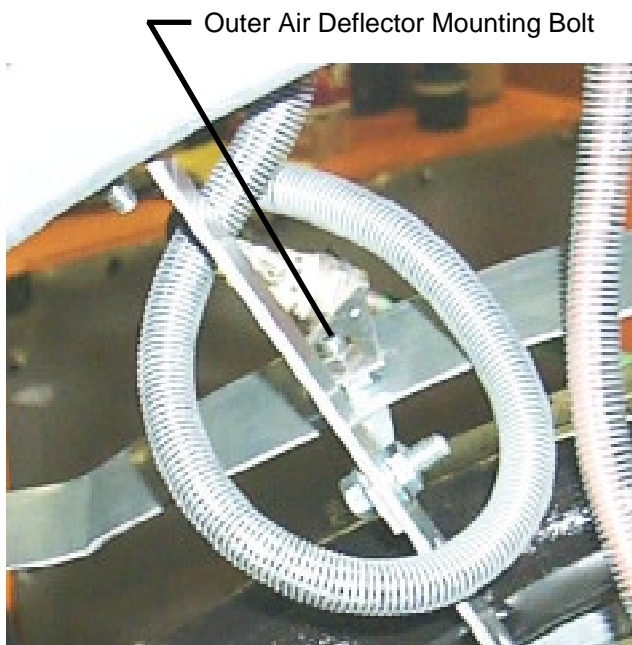


Figure 2. Use the Outer Air Deflector mounting bolt to mount the Flame Switch Bracket.

The HH-3977 is the 6 inch long switch with the ceramic coated shaft. This switch is rated at 250°F. Testing of this switch has shown that it will work well in the Chi-town heater applications, but it must be mounted in a different location on the burner.

Testing showed that the switch performs best when mounted on the Outside Air Deflector with the tip pointing toward the center of the heater. The probe must lie across the burner with as much of the probe in the flame as possible.

A new mounting bracket (HF-8028) was created to properly mount the probe. This bracket has been formed to a nominal angle for probe placement. There may still be some field adjustment of this bracket for specific conditions.

Order this kit number to receive the new probe, bracket, and hardware to replace HF-7640 & HH-1097 Flame Switches: **HF-8030.**

Installation

1. Locate the Outer Air Deflector bolt located near the gas supply pipe on top of the burner ring.
2. Install the probe mounting bracket using this bolt so the probe points in the direction of the ignitor as in Figure 1. Older model heaters had a rivet in this location. The rivet can be removed and replaced with the 1/4" nut & bolt supplied in the kit. An alternate installation would be to drill a 9/32" hole near this location and mount the bracket using the 1/4" nut & bolt supplied.
3. The HH-3977 probe has smaller terminals than the HF-7640/HH-1097 probes. Replace the Flame Probe Wire with the proper size replacement terminals and wire provided in the kit.
4. Re-route the wires for the probe by looping the spring/wire assembly around the burner mounting bracket as in Figure 2.
5. Adjust probe if necessary to open on temperature rise.