GAS UNITS KITS & ACCESSORIES

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HEAT SHIELD REPLACEMENT KIT

INSTALLATION INSTRUCTIONS FOR HEAT SHIELD KITS USED WITH EL180UHNE, SL280UHNV, EL195UHNE AND SL297UHNV ULTRA-LOW NOX FURNACES

Shipping and Packing List

Package 1 of 1 contains:

- 1 Heat shield
- 2 Gaskets
- 14 Screws

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier

Application

Use this instruction to replace the heat shield in EL180 UHNE, SL280 UHNV, EL195 UHNE and SL297 UHNV. See table 1 for kit number to matching furnace capacity.

TABLE 1

Catalog	Kit	Furnace Btuh
15P57	616064-01	040
15P63	616064-02	060
15P66	616064-03	080
15P73	616064-04	100

Installation

▲ CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

- 1 Turn off both electrical and gas power supplies to furnace.
- 2 Remove panel and label the wires from gas valve, thermal switch, primary limit switch and make-up box then disconnect them.

- 3 Disconnect gas supply piping. Remove the screws securing the air fuel plenum and remove. Discard screws. Remove the air inake assembly as one component
- 4 Remove the gaskets from the air fuel plenum and discard.
- 5 Remove the heat shield and replace with new.
- 6 Reinstall the air fuel plenum with the provided gaskets and screws and air intake assembly. Make note of the numbered sequence when re-installing the air fuel plenum. Follow the sequence as shown in Figure 1. Torque screws to a maximum of 100 + 5 in lbs. and a minimum 60 in lbs. Re-torque the screws using the same procedure, then repeat once again.
- 7 Reconnect gas valve, thermal switch, primary limit, and make-up box.
- 8 Reconnect gas supply piping.
- 9 Turn on power and gas supply to unit.
- 10 Set thermostat and check for proper operation.
- 11 Check all piping connections, factory and field, for gas leaks. Use a leak detecting solution or other preferred means.
- 12 Once furnace is leak free turn off unit and prepare to check manifold pressure. Follow the steps below.
- a Remove the threaded plug from the outlet side of the gas valve and install a field-provided barbed fitting. Connect measuring device "+" connection to barbed fitting to measure manifold pressure.
- b Start unit (two-stage units in low fire) and allow 8 minutes for unit to reach steady state.
- c After allowing unit to stabilize for 8 minutes (two -stage units in low fire), record manifold pressure and compare to value given in Table 2. Make manifold adjustment if necessary (two-stage units make adjustment in low fire)
- d Shut unit off and remove manometer as soon as an accurate reading has been obtained.
- 13 Replace access panel.



TABLE 2

Unit	High Fire or Single Stage	Low Fire
040	3.2 - 3.5 in wc	1.3 - 1.7 in wc
060		
080		
100		

A CAUTION Can cause personal injury.

Burner and all gas air mixing components remain HOT immediately after burner shutdown. DO NOT handle burner or components until adequate time period has passed.

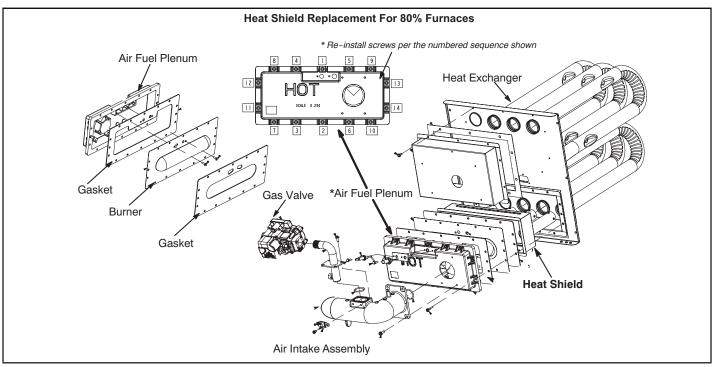


FIGURE 1

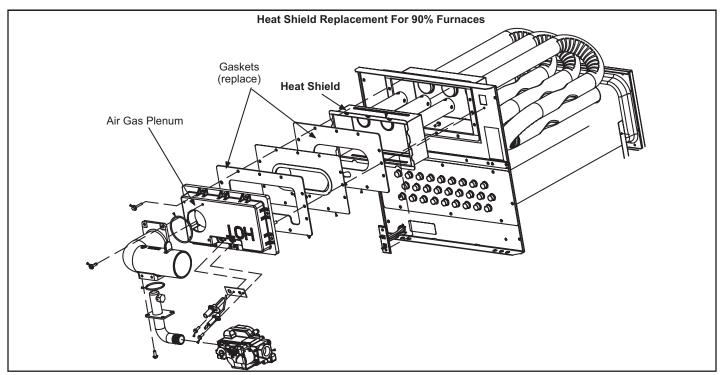


FIGURE 2