

INSTALLATION INSTRUCTIONS FOR AIR/GAS PLENUM REPLACEMENT KIT USED WITH LG 036H, 048H, 060H ULNOx UNITS

Shipping and Packing List

Package 1 of 1 contains:

- 1- Air/gas plenum
- 1- Air/gas plenum gasket
- 1- Sensor/ignitor gasket
- 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.

⚠ 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.

Application

Use this instruction to replace the air / gas plenum in LGH036H, 048H, and 060H ultra-low NOx units. See table 1 for application.

TABLE 1

Cat. No.	Print	Unit
21D40	622484-01	036
21D43	622484-02	048
21D82	622484-03	060

Installation

See figure 1.

- 1- Turn off both electrical and gas power supplies to unit.
- 2- Open heat access panel and label the wires from gas valve, thermal switch, primary limit switch and disconnect them.
- 3- Disconnect gas supply piping. Remove the air / gas elbow, gas manifold, and gas valve from the plenum box as one component.
- 4- Remove the screws securing the air / gas plenum box and remove. Discard screws.
- 5- Remove the gasket from the air / gas plenum box and discard.
- 6- Remove and retain the screws securing the flame sensor and ignitor electrode attached to the air / gas plenum box.
- 7- Remove the sensor and ignitor gasket and discard.
- 8- Install the provided air / gas plenum box *with the provided gasket and screws*. Make note of the numbered sequence when installing the air / gas 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.**
- 9- Reinstall the flame sensor and ignitor electrode with the provided gasket and retained screws. See figure 1. **Torque screws to 25 +/- in - lbs. Re-torque the screws using the same procedure and repeat again.**
- 10- Replace the air / gas elbow, gas manifold, and gas valve assembly onto the air / gas plenum.
- 11- Reconnect gas valve, thermal switch, and primary limit.
- 12- Reconnect gas supply piping.
- 13- Turn on power and gas supply to unit.
- 14- Set thermostat and check for proper operation.
- 15- Check all piping connections, factory and field, for gas leaks. Use a leak detecting solution or other preferred means.
- 16- 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 15 minutes for unit to reach steady state.
 - c - After allowing unit to stabilize for 15 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.
- 17- Close access panel.

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.

**TABLE 2
MANIFOLD PRESSURE**

Unit	High Fire or Single Stage	Low Fire
060KBtuh	0.2-1.2 in. w.c.	0.1-1.2 in. w.c.
100KBtuh		

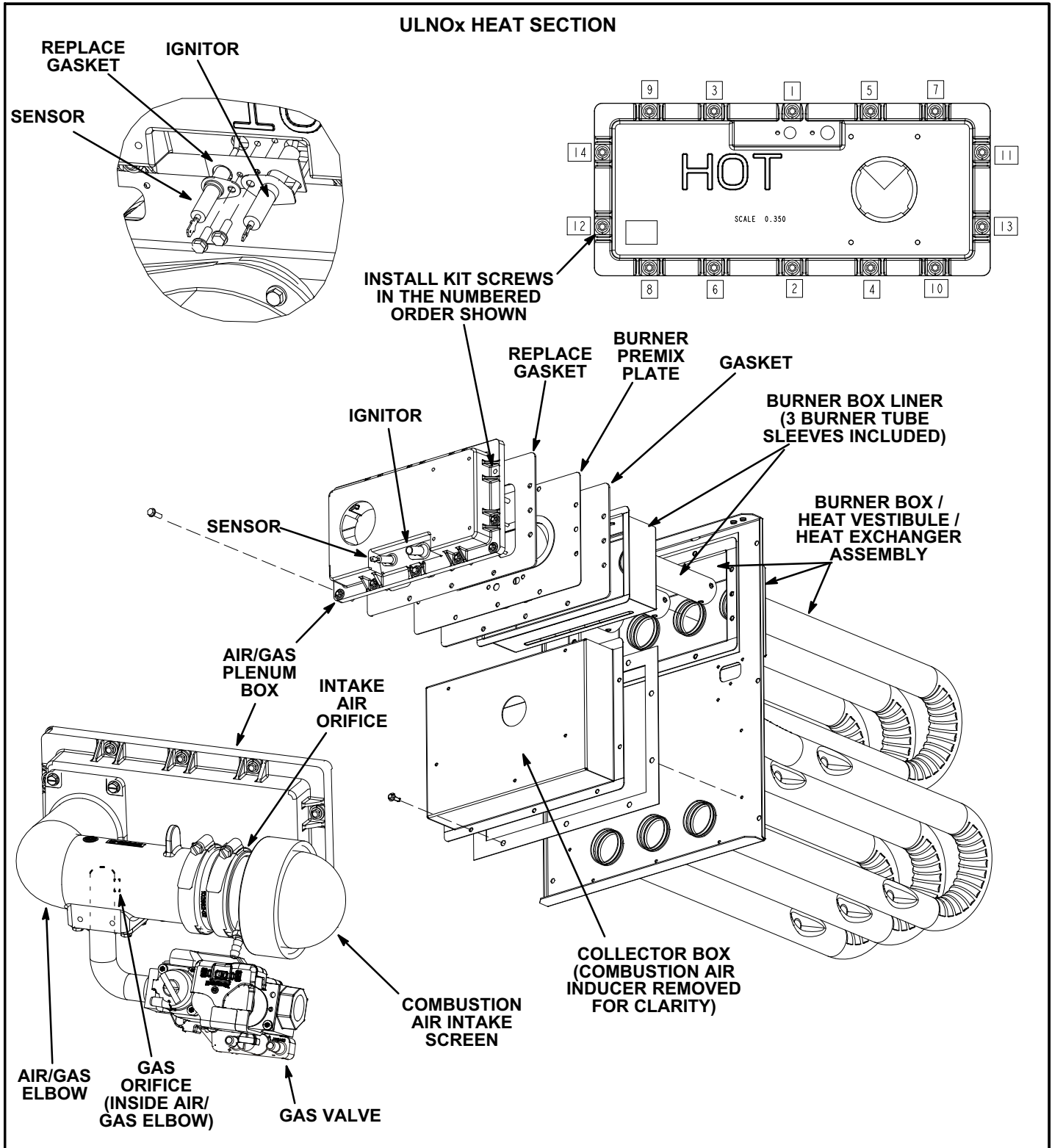


FIGURE 1