

# GAS UNITS KITS & ACCESSORIES

506590-02  
04/2021  
Supersedes 506590-01

## REPLACEMENT COMBUSTION AIR INDUCER

### INSTALLATION INSTRUCTIONS FOR REPLACEMENT COMBUSTION AIR INDUCER KITS FOR USE ON 90% GAS FURNACES

#### **⚠ 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 installer (or equivalent), service agency or the gas supplier.

#### Shipping and Packing List

##### Package 1 of 1 contains:

- 1 - Combustion air inducer
- 1 - Gasket
- 4 - #10 - 16 x 2-3/4 screws

#### Application

Combustion air inducer replacement kits are used with units as detailed below.

TABLE 1

Furnace Type	Kit
Modulating	33W32
Single-Stage	73W44
Two-Stage	81W45/22G55

#### Installation

Figure 1 shows combustion air inducer installation used in upflow/horizontal units, figure 2 shows installation in downflow units and figure 3 shows installation in multi-position units.

#### **⚠ 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 - Set the thermostat to the lowest setting. Shut off the gas supply to the furnace; then disconnect the electrical power. Unit may have more than one power switch.
- 2 - Remove the access panel(s) on the furnace.
- 3 - Disconnect the electrical power wiring harness from the combustion air inducer. Disconnect the ground wire if separate from the plug.  
  
Multi-position furnaces (figure 3) - Remove pressure switch assemblies (label wiring if removed) and thermal limit (if equipped) mounted to combustion air inducer.
- 4 - Loosen clamps securing exhaust fitting to combustion air inducer.
- 5 - Remove screws (set aside) which secure combustion air inducer to collector box. Remove combustion air inducer assembly.
- 6 - Remove the gasket from the front of the collector box. Install the replacement gasket before installing the replacement inducer.
- 7 - Use the existing screws (or screws provided) to secure the replacement combustion air inducer to the collector box. Use a torque wrench to tighten screws to 30 in. lbs.
- 8 - Use existing clamps to secure replacement combustion air inducer to exhaust fitting. This connection should be leak free.  
  
Multi-position furnaces (figure 3) - Reinstall pressure switch assemblies and thermal limit (if equipped). Make sure pressure switch wiring is correct.
- 9 - Connect existing wiring harness to replacement inducer and reconnect ground wire.
- 10 - Restore electrical power and gas supply to the furnace.
- 11 - Refer to the unit installation instructions or unit nameplate for proper start-up procedure.

### Combustion Air Inducer in Upflow/Horizontal Furnaces

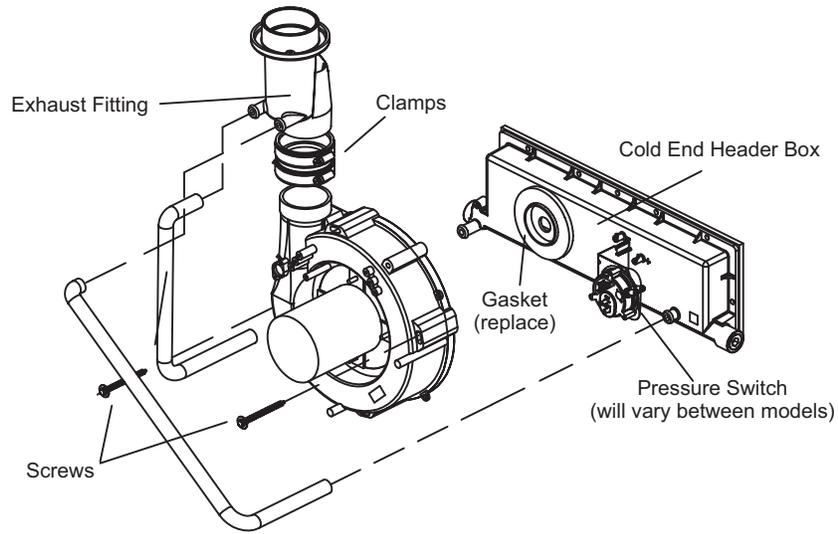


Figure 1

### Combustion Air Inducer in Downflow Furnaces

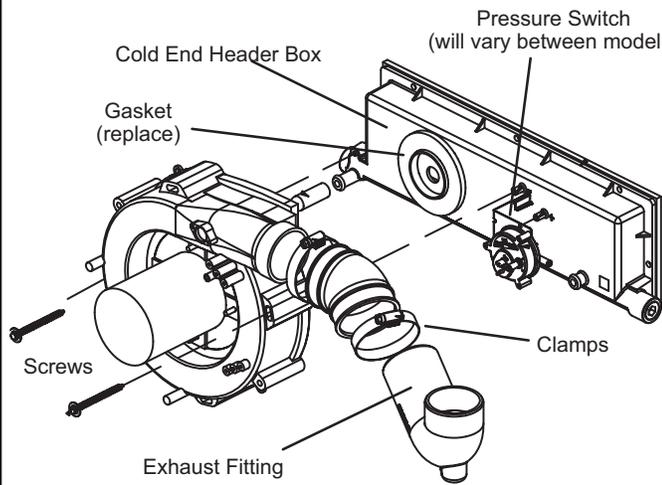


Figure 2

### Combustion Air Inducer in Multi-Position Furnaces

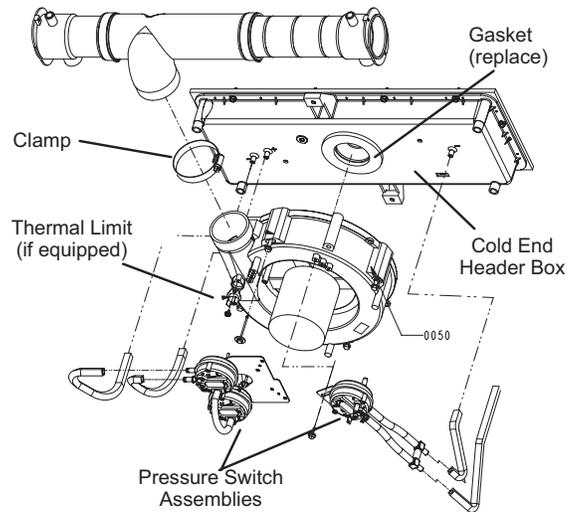


Figure 3