

Installation Instructions


NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions include in literature and attached to the unit. Consult local building codes, the current editions of the National Fuel Gas Code (NFGC) NFPA 54/ANSI Z223.1 and the National Electrical Code (NEC) NFPA 70.

In Canada, refer to the current editions of the National Standards of Canada CAN/CGA-B149.1 and .2 Natural Gas and Propane Installation Codes, and Canadian Electrical Code CSA C22.1

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which **will** result in severe personal injury or death. **WARNING** signifies hazards which **could** result in personal injury or death. **CAUTION** is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

WARNING

FIRE, EXPLOSION AND ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury, death and/or property damage.

Before installing or servicing system, always turn off main electrical and gas supplies to unit and tag with appropriate lockout. There may be more than one disconnect switch.

CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing furnaces.

CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in improper and dangerous operation.

Label all wires prior to disconnection when servicing controls.

INTRODUCTION

This instruction covers the installation of the pressure switch kit Part No. 328529-751 in all two-stage multipoise condensing gas furnaces.

DESCRIPTION AND USAGE

This pressure switch kit is designed for use when replacement of the factory-installed pressure switch is required.

This kit is for use with models 352AAV, 352MAV, 353BAV, 58MTA, 58MTB, 58MEC and PG9MXA.

The pressure switch kit contains the following items:

Pressure Switch Assembly (HK06NB013)	1
High Pressure Switch (labeled "Burner Enclosure")	
make point = 1.81 in. w.c. max.	
break point = 1.58 in. w.c. min.	
Low Pressure Switch (labeled "Collector Box")	
make point = 1.06 in. w.c. max.	
break point = .91 in. - .05 in. w.c.	
Tubing Assembly, 7.88- (319873-722)	1
Tube, 12.5-in. (318 mm) (320890-308)	1
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INSTALLATION

Step 1 — Removal of Old Pressure Switch Assembly

1. Turn off gas and electrical supplies to furnace.
2. Remove furnace door.
3. Disconnect wires from pressure switch.
4. Remove pressure tubes from pressure switch.
5. Remove pressure switch assembly from inducer housing.

Step 2 — Modify High-Pressure Switch Tubing Assembly

1. Remove high-pressure switch tubing assembly from collector box.
2. Replace old high-pressure switch tubing assembly with kit supplied tubing assembly 319873-722. If servicing a 4- or 5-cell unit (080 or 100 size), cut tube from stock length (7.88-in. (200 mm)) to 7-in. (178 mm).

Step 3 — Modify Low-Pressure Switch Tubing Assembly (3 or 4 cell units)

1. If servicing a 3- or 4-cell unit (060 or 080 size), continue to #2 and #3. If servicing a 5- or 6-cell unit (100 or 120 size), skip to Step 4 and discard kit-supplied tube 320890-308.
2. Remove 10-in. (254 mm) tube that originally connected the pressure switch assembly to plastic “T” located near the gas valve.
3. Attach kit-supplied 12.5-in. (318 mm) tube (320890-308) to plastic “T” located near the gas valve.

Step 4 — Install New Pressure Switch Assembly (5 or 6 cell units)

1. Install new pressure switch assembly (HK06NB013) to inducer housing.
2. Restore pressure tubing connections to corresponding pressure switch ports.
 - a. Connect tubing from collector box to high-pressure switch.
 - b. Connect tubing from plastic “T” assembly (near gas valve) to low-pressure switch.
3. Connect pressure switch wire leads (NOTE: “HIGH” pressure switch is labeled, “Collector Box”; “LOW” pressure switch is labeled, “Burner Enclosure”):
 - a. Connect orange lead to HIGH switch common (C) terminal.
 - b. Connect yellow lead to HIGH switch normally-open (NO) terminal.
 - c. Connect gray lead to LOW switch common (C) terminal.
 - d. Connect brown lead to LOW switch normally-open (NO) terminal.
4. Turn on gas and electrical supplies and start furnace.
5. Check furnace for proper operation.
6. Replace furnace door.