# INSTALLATION INSTRUCTIONS NATURAL GAS to PROPANE GAS CONVERSION KIT

### **Condensing Gas Furnaces**

F9MES 220-V 50Hz

### NAHA01101LP





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

## SAFETY CONSIDERATION

## WARNING

# FIRE, EXPLOSION, ELECTRICAL SHOCK, AND CARBON MONOXIDE POISONING HAZARD

Failure to follow this warning could result in personal injury or death.

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide could result causing property damage, personal injury, or loss of life. The qualified service agency is responsible for the proper installation of this furnace with this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained and qualified personnel should install, repair, or service heating equipment.

Untrained personnel can perform basic maintenance functions such as cleaning and replacing air filters. Trained service personnel must perform all other operations. When working on heating equipment, observe precautions in the literature, on tags, and on labels attached to or shipped with the unit, and other safety precautions that may apply.

Follow all safety codes. In the United States, follow all safety codes including the current edition of the National Fuel Gas Code (NFGC) NFPA No. 54/ANSI Z223.1. Wear safety glasses and work gloves. Have a fire extinguisher available during start-up, adjustment steps, and service calls.

Recognize safety information. This is the safety-alert symbol

⚠. When you see this symbol on the furnace and in instructions or manuals, be alert to the potential for personal injury. Understand the signal words DANGER, WARNING, CAUTION and NOTE. The words DANGER, WARNING, and CAUTION are used with the safety alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard 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.

### INTRODUCTION

## WARNING

# FIRE, EXPLOSION, ELECTRICAL SHOCK AND CARBON MONOXIDE POISONING HAZARD

Failure to follow instructions could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause carbon monoxide poisoning, explosion, fire, electrical shock, or other conditions, which could result in personal injury or death. Consult your distributor or branch for information or assistance. The qualified installer or agency must use only factory-authorized kits or accessories when servicing this product.

### WARNING

#### FIRE, EXPLOSION, ELECTRICAL SHOCK HAZARD

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

Gas supply MUST be shut off before disconnecting electrical power and proceeding with conversion.

# **WARNING**

#### **ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD**

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

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label. Verify proper operation after servicing.

This instruction covers the installation of gas conversion kit to convert the following furnaces from natural gas usage to propane gas usage. See appropriate section for your furnace type, model F9MES 4-Way Multipoise, Hot Surface Ignition, Condensing Furnaces.

### **DESCRIPTION AND USAGE**

This kit is designed for use in the furnaces listed below. See **Table 1** for kit contents. To accommodate many different furnace models, more parts are shipped in kit than will be needed to complete conversion. When installation is complete, discard extra parts.

MODEL NUMBER BEGINNING WITH:	
F9MFS	
I SIVILO	

QUANTITY DESCRIPTION	DESCRIPTION			
1 VALVE CVRSN KIT - W/R SPRING 92-06	59			
7 ORIFICE - 1.25mm				
7 ORIFICE - 1.30mm				
7 ORIFICE - #54				
7 ORIFICE - #55				
7 ORIFICE - #56				
7 MIXER SCREW				
7 MIXER SCREWS - HEX HD 8AB 3/4				
1 BIT, DRILL 7/64" CONDENSING				
1 CONNECTOR - BRASS 1/8" NPT X2"				
1 CONNECTOR, SPLC - 3/16"				
1 CONNECTOR - 1/4QC ME BOTH ENDS				
1 ELBOW,STREET - 150# 1/8" NPT				
1 ELBOW,STREET - BRASS 1/8" NPT				
1 NIPPLE - HEX (BRASS)				
1 SWITCH,PRESSURE				
1 TEE - MALE BRANCH (BRASS)				
1 TEE, STREET - MALE BRANCH (BRASS	5)			
2 WIRE ASSY – ORANGE				
1 WIRE ASSY – ORANGE				
1 WIRE ASSY – ORANGE				
1 WIRE ASSY – ORANGE				
1 LABEL 339922-201 English				
1 LABEL 339922-202 English				
1 LABEL 339922-203 Spanish				
1 LABEL 339922-204 Spanish				
1 LABEL 339922-205 English/Spanish				
1 INSTRUCTIONS				

### **INSTALLATION**

- 1. Set room thermostat to lowest setting or "OFF"
- 2. Disconnect power at external disconnect, fuse or circuit breaker.
- 3. Turn off gas at external shut-off or gas meter.
- 4. Remove outer doors and set aside.
- 5. Turn electric switch on gas valve to OFF.

# MANIFOLD/ORIFICE/BURNER REMOVAL

## CAUTION

#### **UNIT OPERATION HAZARD**

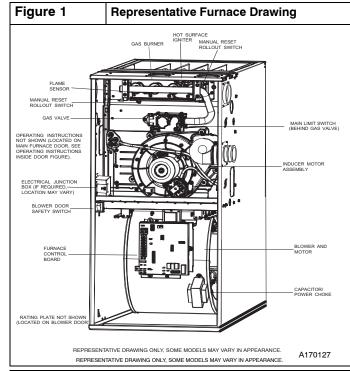
Failure to follow this caution may result in unit damage or improper operation.

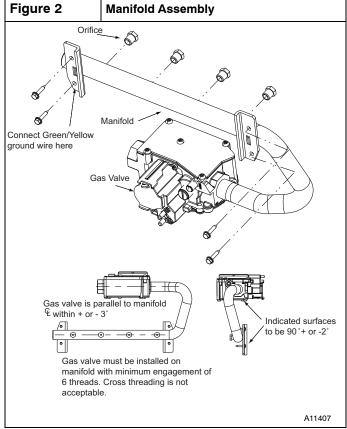
Label all wires prior to disconnection when servicing controls.

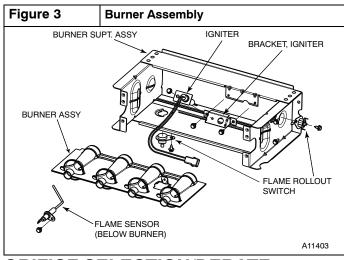
**NOTE**: Use a back-up wrench on the gas valve to prevent the valve from rotating on the manifold or damaging the mounting to the burner box.

- 1. Disconnect the gas pipe from gas valve and remove pipe from the furnace casing. (See **Figure 1**)
- Disconnect the connector harness from gas valve Disconnect wires from Hot Surface Igniter (HSI) and Flame Sensor.
- Support the manifold and remove the four (4) screws that secure the manifold assembly to the burner box and set aside.

- Note the location of the green/yellow wire ground wire for re–assembly later. (See Figure 2)
- Slide one-piece burner assembly out of slots on sides of burner box. (See Figure 3)
- 6. Remove the flame sensor from the burner assembly.
- 7. Remove the orifices from the manifold and discard.







### **ORIFICE SELECTION/DERATE**



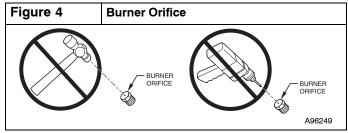
#### **UNIT DAMAGE HAZARD**

Figure 5

Failure to follow this caution may result in unit damage.

DO NOT re-drill burner orifices. Improper drilling may result in burrs, out-of-round holes, etc. Obtain new orifices if orifice size must be changed. (See Figure 4)

Conversion Kit Rating Plate



Refer to conversion kit rating plate 339922-201 to determine main burner orifice size. (See Figure 5)

Furnace gas input rate on furnace rating plate is for installations at altitudes up to 2000 ft. (610 M).

In the U.S.A.; the input rating for altitudes above 2000 ft. (610 M) must be reduced by 2 percent for each 1000 ft. (305 M) above sea level.

The Conversion Kit Rating Plate accounts for high altitude derate.

rigure 5	Conversion	ersion filt flating flate				
	CONVERSION	ON KIT R	ATING PLATE - INTERNATI	ONAL COMFORT PRODUCTS U.S.A.		
	FUEL USED PROPANE GAS		ALTITUDE OF INSTALLATION (ABOVE SEA LEVEL)	THIS APPLIANCE HAS BEEN CONVERTED TO USE PROPANE GAS FOR FUEL. REFER TO KIT INSTRUCTIONS FOR CONVERSION PROCEDURES.		
	APPLIANCE		0 to 10000 FT (0 to 3937 m)	USE PARTS SUPPLIED BY MANUFACTURER AND		
MODELS	Orifice No.	1.25mm	INSTALLED BY QUALIFIED PERSONNEL. SEE			
*9MES		Manifold Pressure		EXISTING RATING PLATE FOR APPLIANCE MODEL NO. AND INPUT RATING.		
		in W.C.	11.0	NO. AND INI OT NATING.		
	KIT NUMBER	mm W.C.	280	NOTE: Furnace gas input rate on rating plate		
	NAHA01101LP	kPA	2.74	is for installations up to 2000 ft. (610m) above		
SUPERSEDES		Inlet Pressure	sea level. The input rating for altitudes above 2000 ft. (610m) must be derated by 2% for			

(min - max) 12.0 - 13.6

(min - max) 305 - 345

(min - max) 3.00 - 3.38

#### **INSTALL ORIFICES**

1. Install main burner orifices. Do not use Teflon tape. Finger-tighten orifices at least one full turn to prevent cross-threading, then tighten with wrench.

in W.C.

kPA

mm W.C

2. There are enough orifices in each kit for largest furnace. Discard extra orifices.

NOTE: DO NOT reinstall the manifold at this time.

NONE

#### **INSTALL MIXER SCREWS**

NOTE: There are two sets of mixer screws. One set is for Condensing gas furnaces, the other set is for Non-condensing gas furnaces. Use only the parts in the bag marked "REQUIRED FOR THE CONVERSION OF CONDENSING **GAS FURNACES TO PROPANE GAS"** 

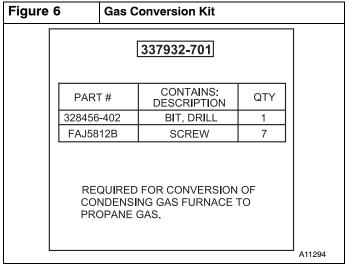
1. See Figure 6 to verify you have the correct set of mixer screws.

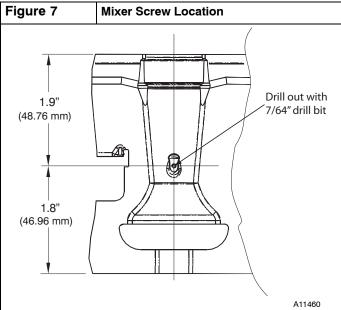
339922-201 REV.

2. Locate the dimple on each burner venturi tube.

each 1000 ft. (305m) above sea level.

- 3. If you cannot locate the dimple, refer to Figure 7 for location of the mixer screw.
- 4. Drill a 7/64-in (2.8 mm) hole (supplied in kit) in each
- 5. Install a mixer screw in each drilled hole drilling as straight as possible (i.e. in the center of the gas flow stream as well as perpendicular to the gas flow stream).
- 6. The screw head should be flush with the top of the burner

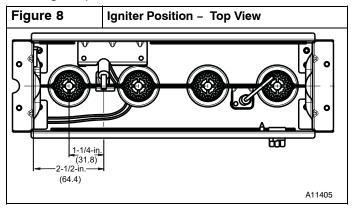


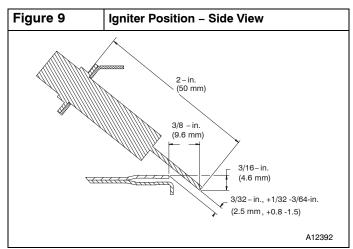


#### REINSTALL BURNER ASSEMBLY

To reinstall burner assembly:

- 1. Attach flame sensor to burner assembly.
- 2. Insert one-piece burner in slot on sides of burner box and slide burner back in place.
- 3. Reattach HSI wires to HSI.
- Verify igniter to burner alignment. (See Figure 8 & Figure 9)





#### **CONVERT GAS VALVE**

### **CAUTION**

#### **UNIT DAMAGE HAZARD**

Failure to follow this caution may result in unit damage

The gas valve must be converted and pre-adjusted before operating on propane gas. If not converted and pre-adjusted, sooting and corrosion will occur leading to early heat exchanger failure.

# **WARNING**

#### FIRE, EXPLOSION, ELECTRICAL SHOCK HAZARD

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

Gas supply MUST be shut off before disconnecting electrical power and proceeding with conversion.

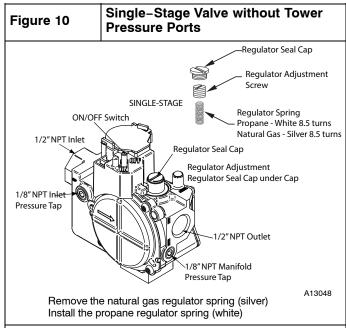
### WARNING

#### **ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD**

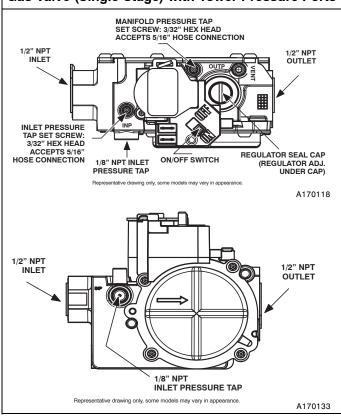
Failure to follow this warning could result in personal injury, death or property damage.

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label. Verify proper operation after servicing.

- 1. Refer to Figure 10.
- 2. Be sure gas and electrical supplies to furnace are off.
- Remove caps that conceal adjustment screws for the gas-valve regulators. (See Figure 10)
- 4. Remove the regulator adjustment screw.
- 5. Remove the regulator springs (silver).
- 6. Install the propane gas regulator springs (white).
- 7. Install the regulator adjustment screws.
- 8. Turn the adjusting screw clockwise (in) 8.5 full turns. This will increase the manifold pressure closer to the propane set point. (See **Figure 10**)
- 9. Do not install regulator seal caps at this time.



#### Gas Valve (Single Stage) with Tower Pressure Ports



# INSTALL LOW GAS PRESSURE SWITCH

**NOTE**: Install the Low Gas Pressure Switch before installing the manifold on the burner assembly.

There are two ways to mount the Low Gas Pressure Switch.

# All 14 3/16-in Casings or Vent Passed Between Inducer Assembly and Burner Assembly

If the vent pipe passes between the inducer and burner assembly, or the furnace is a 14 3/16-in. wide casing. The switch may be installed as shown in **Figure 11**.

1. Remove the 1/8-in. NPT pipe plug from the gas valve inlet pressure tap.

NOTE: Use pipe dope approved for use with Propane Gas.

**NOTE**: Tighten all fittings and the Low Gas Pressure Switch with a small wrench. Do not over-tighten, check for gas leaks after gas supply has been turned on.

### WARNING

#### FIRE OR EXPLOSION HAZARD

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

Never test for gas leaks with an open flame. Use a commercially available soap solution made specifically for the detection of leaks to check all connections. A fire or explosion may result causing property damage, personal injury or loss of life.

- 2. Apply pipe dope sparingly to the male threads of the 1/8-in. black iron street elbow. Install the street elbow into the gas valve inlet pressure tap. One end of the opening of the street elbow should be parallel with the inlet boss on the gas valve. The other opening should be pointing toward you.
- 3. Apply pipe dope sparingly to the male threads of the 1/8-in. brass street tee. Install the male end of the street tee as shown in **Figure 12**. One opening on the street tee should face you. The other opening should be parallel with the inlet of the gas valve.
- 4. Apply pipe dope sparingly to the male threads of the 1/8-in. brass hex nipple. Install the hex nipple into the open end of the brass street tee. (See Figure 12) The hex nipple should be parallel with the boss on the gas valve.
- Install the open end of the brass street elbow on the end of the hex nipple. Tighten the street elbow so the male threads of the elbow point away from you.
- 6. Apply pipe dope sparingly to the male threads of the 1/8-in. brass street elbow. Install the Low Gas Pressure Switch on the male threads of the street elbow. Tighten switch at hex fitting at base of switch. Do not use switch body to tighten switch. Do not over-tighten switch.
- 7. The remaining opening on the brass street tee is the new gas valve inlet pressure tap (optional for some models). Apply pipe dope to inlet pressure plug from gas valve and install in open end of brass street tee.
- 8. Check all fittings for leaks after gas supply has been turned on.

# Casings Wider Than 14 3/16-in/Vent Does Not Pass Between Inducer and Burner Assembly

- If the vent pipe does not pass between the inducer and burner assembly, or the furnace is wider than a 14 3/16-in. wide casing. The switch may be installed as shown in Figure 12.
- 2. Remove the 1/8-in. NPT pipe plug from the gas valve inlet pressure tap.

**NOTE**: Use pipe dope approved for use with Propane Gas.

**NOTE**: Tighten all fittings and the Low Gas Pressure Switch with a small wrench. Do not over-tighten, check for gas leaks after gas supply has been turned on.

- Apply pipe dope sparingly to the male threads of the brass street elbow.
- Install the brass street elbow in inlet pressure tap of the gas valve
- Tighten the brass street elbow with a small wrench so the outlet faces to your left.
- 6. Apply pipe dope sparingly to the male threads of the 2-in. brass nipple.
- Install the brass nipple in the outlet of the brass street elbow.
- 8. Locate the brass street tee in the kit. Orient the tee so the male threads on the tee face away from you and the female threads face point to the male threads of the 2-in brass nipple.
- With a small back-up wrench on the brass street elbow, tighten the brass street tee with a small wrench until the fittings are tight and the male portion of the threads point away from you.
- 10. Apply pipe dope sparingly to the male threads of the 1/8-in. brass street elbow. Install the Low Gas Pressure Switch on the male threads of the street elbow. Tighten switch at hex fitting at base of switch. Do not use switch body to tighten switch. Do not over-tighten switch.
- 11. The remaining opening on the brass street tee is the new gas valve inlet pressure tap (optional for some models). Apply pipe dope to inlet pressure plug from gas valve and install in open end of brass street tee.
- 12. Check all fittings for leaks after gas supply has been turned on.

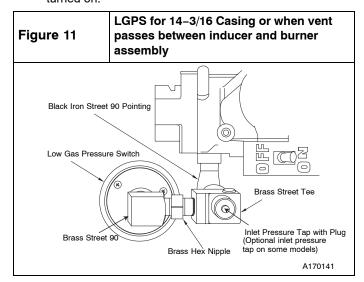


Figure 12

LGPS for Casing Wider Than 14–3/16 and vent does not pass between inducer and burner assembly

Brass Street Tee Inlet Pressure Tap with plug (Optional inlet pressure tap on some models)

Brass Street 90

Brass Street 90

Brass Nipple

Low Gas Pressure Switch

A170142

# INSTALL LOW GAS PRESSURE SWITCH WIRES

- Locate the orange wire in the kit with an insulated straight female spade terminal and an insulated straight male terminal on the other end.
- 2. Connect the female terminal to a terminal on the Low Gas Pressure Switch.
- Locate the orange wire in kit with an insulated straight female spade terminal and an insulated female flag terminal on the other end.
- 4. Connect both straight female terminals of the orange wires to the terminals on the Low Gas Pressure Switch.

#### **INSTALL MANIFOLD**

- 1. Refer to Figure 2 and Figure 3.
- 2. Align the orifices in the manifold assembly with the support rings on the end of the burner.
- Insert the orifices in the support rings of the burners. Manifold mounting tabs should fit flush against the burner box.

**NOTE**: If manifold does not fit flush against the burner box, the burners are not fully seated forward. Remove the manifold and check burner positioning in the burner box assembly.

- 4. Attach the green/yellow wire and ground terminal to one of the manifold mounting screws. (See **Figure 2**)
- 5. Install the remaining manifold mounting screws.
- 6. Connect the wires to both rollout switches.
- Connect the wires to the flame sensor and hot surface igniter.
- 8. Connect the connector harness to gas valve.

**NOTE**: Use only propane-resistant pipe dope. Do not use Teflon tape.

Insert the gas pipe through the grommet in the casing. Apply a thin layer of pipe dope to the threads of the pipe and thread the pipe by into the gas valve.

**NOTE**: Use a back-up wrench on the gas valve to prevent the valve from rotating on the manifold or damaging the mounting to the burner box.

- 10. With a back-up wrench on the inlet boss of the gas valve, finish tightening the gas pipe to the gas valve.
- 11. Turn gas on at electric switch on gas valve.

6

#### MODIFY PRESSURE SWITCH WIRING

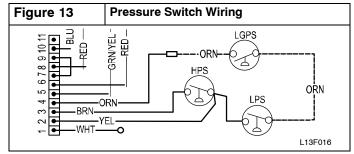
# **A** CAUTION

#### **UNIT OPERATION HAZARD**

Failure to follow this caution may result in unit damage or improper operation.

Label all wires prior to disconnection when servicing controls.

- 1. Disconnect orange wire from Low Heat Pressure Switch LPS on inducer housing. (See **Figure 1**)
- Connect the orange wire from the Low Heat Pressure Switch to the orange wire with the insulated male spade terminal. (See Figure 13)
- 3. Connect the orange wire from the Low Gas Pressure Switch to the terminal on the Low Heat Pressure Switch.
- 4. Route orange wires along wire harness. If possible, secure with wire tie provided in kit.



#### **CHECK INLET GAS PRESSURE**

# **CAUTION**

#### **UNIT DAMAGE HAZARD**

Failure to follow this caution may result in unit damage.

DO NOT operate furnace more than one minute to check inlet gas pressure, as conversion is not complete at this time.

**NOTE**: This kit is to be used only when inlet gas pressure is between 12.0-in. w.c. and 13.6-in. w.c.

- On some models, remove the 1/8-in. (3 mm) plug from inlet the pressure tap and insert pressure tap (see Figure 11 and Figure 12). Or, on some models, loosen the set screw on inlet tower pressure tap no more than on full turn with a 3/32-in. hex wrench. (See Figure 10)
- 2. Verify manometer is connected to inlet pressure tap on gas valve. (See **Figure 10**)
- 3. Turn on furnace power supply.
- 4. Turn gas supply manual shutoff valve to ON position.

### WARNING

# FIRE, EXPLOSION, ELECTRICAL SHOCK HAZARD

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

Gas supply MUST be shut off before disconnecting electrical power and proceeding with conversion.

## WARNING

#### **ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD**

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

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label. Verify proper operation after servicing.

- 5. Turn furnace gas valve switch to ON position.
- 6. Jumper R-W thermostat connections on control.
- 7. When main burners ignite, confirm inlet gas pressure is between 12.0-in. w.c. and 13.6-in. w.c.
- 8. Remove jumper across R–W thermostat connections to terminate call for heat.
- 9. Turn furnace gas valve switch to OFF position.
- 10. Turn gas supply manual shutoff valve to OFF position.
- 11. Turn off furnace power supply.
- 12. Remove manometer and on some models remove pressure tap fitting.
- 13. On some models, apply pipe dope sparingly to end of inlet gas pipe plug and install into unused end of 1/8-in. tee. Use a small back-up wrench on tee when tightening gas inlet pipe plug. Or, on some models, tighten set screw on inlet tower pressure tap with a 3/32-in. hex wrench. See Figure 10.

# CHECK FURNACE AND MAKE ADJUSTMENTS

## WARNING

#### FIRE AND EXPLOSION HAZARD

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

NEVER test for gas leaks with an open flame. Use a commercially available soap solution made specifically for the detection of leaks to check all connections. A fire or explosion may result causing property damage, personal injury or loss of life.

- 1. Be sure main gas and electric supplies to furnace are off.
- 2. On some models, remove 1/8-in. (3 mm) pipe plug from manifold pressure tap on the outlet end of gas valve and insert pressure tap. Or, on some models, loosen set screw on manifold tower pressure tap no more than one full turn with the 3/32-in. hex wrench.
- Attach manometer to manifold pressure tap on gas valve. (see Figure 10)
- 4. Turn gas supply manual shutoff valve to ON position.
- 5. Turn furnace gas valve switch to ON position.
- 6. Check all threaded pipe connections for gas leaks.
- 7. Turn on furnace power supply.

#### GAS INPUT RATE INFORMATION

The gas input rate for propane is the same as for natural gas. See furnace rating plate (see **Figure 5**) for input rate. The input rate for propane is determined by manifold pressure and orifice size

The gas valve must be set for Low Heat first and then set for High Heat on two-stage and variable-speed furnaces. Furnace gas input rate on rating plate is for installations at altitudes up to 2000 ft. (610 M).

In the U.S.A.; the input rating for altitudes above 2000 ft. (610M) must be reduced by 2 percent for each 1000 ft. (305 M) above sea level.

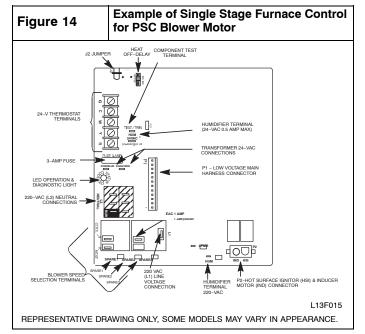
The Conversion Kit Rating Plate accounts for high altitude derate.

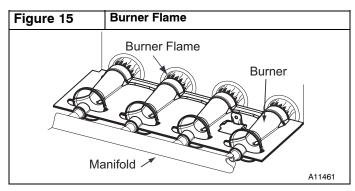
#### SET GAS INPUT RATE

- Jumper R and W thermostat connections to call for heat. (See Figure 14)
- Check manifold orifices for gas leaks when main burners ignite.
- 3. Adjust gas manifold pressure.
- Remove cap that conceals gas valve regulator adjustment screw.
- Turn adjusting screw counterclockwise (out) to decrease manifold pressure or clockwise (in) to increase manifold pressure.
- Replace gas valve regulator seal cap.
- 7. Verify manifold pressure is correct.

**NOTE**: Gas valve regulator seal cap MUST be in place when checking input rate. When correct input is obtained, main burner flame should be clear blue, almost transparent (See **Figure 15**). Be sure regulator seal cap is in place when finished.

- 8. Remove jumper across R and W thermostat connections to terminate call for heat.
- Turn furnace gas valve control switch or control knob to OFF position.
- 10. Turn off furnace power supply.
- Remove manometer and on some models remove pressure tap fitting.
- 12. On some models, apply pipe dope sparingly to end of 1/8-in. (3 mm) pipe plug and install in the manifold pressure tap opening. Or, on some models, tighten set screw on manifold tower pressure tap with a 3/32-in. hex wrench. See **Figure 10**.
- 13. Turn furnace gas-valve switch to ON position.
- 14. Turn on furnace power supply.
- 15. Set room thermostat to call for heat.
- Check pressure tap plug for gas leaks when main burners ignite.
- 17. Check for correct burner flame.
- 18. After making the required manifold pressure adjustments, check and adjust the furnace temperature rise per the furnace installation instructions.





# CHECK LOW GAS PRESSURE SWITCH

The newly installed low gas pressure switch is a safety device used to guard against adverse burner operating characteristics that can result from low gas supply pressure. Switch opens at not less than 6.5 in. w.c. and closes at not greater than 10.2 in. w.c.

This switch also prevents operation when the propane tank level is low which can result in gas with a high concentration of impurities, additives, and residues that have settled to the bottom of the tank. Operation under these conditions can cause harm to the heat exchanger system. This normally open switch closes when gas is supplied to gas valve under normal operating pressure.

The closed switch completes control circuit. Should an interruption or reduction in gas supply occur, the gas pressure at switch drops below low gas pressure switch setting, and switch opens. Any interruption in control circuit (in which low gas pressure switch is wired) quickly closes gas valve and stops gas flow to burners. When normal gas pressure is restored, the system must be electrically reset to re–establish normal heating operation.

Before leaving installation, observe unit operation through two complete heating cycles. During this time, turn gas supply to gas valve off just long enough to completely extinguish burner flame, then instantly restore full gas supply. To ensure proper low gas pressure switch operation, observe that there is no gas supply to burners until after hot surface igniter begins glowing.

#### LABEL APPLICATION

- Fill in Conversion Responsibility Label 339922–205 and apply to blower door of furnace. Date, name, and address of organization making this conversion are required. (See Figure 16)
- Attach Conversion Rating Plate Label 339922–201 to outer door of furnace. (See Figure 5)
- 3. Apply Gas Control Conversion Label to gas valve: For single-stage gas valve apply label 339922-202 to gas valve. (Do not use 339922-203, which is similar). Check for correct normal operating sequence of the ignition system as described in furnace Installation, Start-Up, and Operating Instructions.
- Replace control access door, blower door and outer door of furnace.

#### CHECKOUT

- 1. Observe unit operation through two complete heating cycles.
- 2. See Sequence of Operation in furnace Installation, Start-Up, and Operating Instructions.
- 3. Set room thermostat to desired temperature.

Figure 16	Conversion Responsibility Label						
	THIS FURNACE WAS CONVERTED ON TO PROPANE GAS KIT NO.: NAHA01101LP	ESTE CALEFACTOR SE CONVIRTIÓ EL A GAS PROPANO NÚM. JUEGO: NAHA01101LP					
	BY:	POR:					
	(Name and address of organization making this conversion), which accepts the responsibility that this conversion has been properly made.	(Nombre y dirección de la organización que hace la conversión), acepta la responsabilidad de que esta conversión se hiciera correctamente.  339922-205 REV.A					