

HIGH ALTITUDE CONVERSION

90% FURNACE

INSTALLATION INSTRUCTIONS



WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

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WARNING

DO NOT BYPASS SAFETY DEVICES.

ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is your responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use. Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them. The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION

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DESCRIPTION

This IO manual provides instructions for the appropriate pressure switches, burner orifices, and front covers for the installation of 90+ furnaces above 2,000 Feet.

Above an altitude of 2,000 feet, a derating of the appliance must be followed since the CFM moved by the induced draft blower remains almost constant while the pounds of oxygen in that air is reduced as altitude increases. If this procedure is not followed and the fuel input is not reduced the resulting combustion can be inefficient, incomplete, or possibly cause premature heat exchanger failure due to excessive temperature rise.

The burner orifices for high-altitude installations have been selected because of agency certified testing at high altitude and will provide the appropriate derate. Orifice selection is based on non-derated gas [at standard conditions of 29.92 in Hg and 60°F — approximately 1,000 Btu/ft³ for natural gas and 2,500 Btu/ft³ for propane]. If the Btu content of your gas supply has been artificially changed to account for altitude, contact your gas supplier for orifice sizing (orifice may not require change).

Do not derate by adjusting the manifold pressure to a lower pressure setting than specified on the furnace nameplate. A lower air density at the burner orifice will prevent the orifice from aspirating the proper amount of air into the burner required for complete combustion.

Refer to Product Specification sheet for required changes to pressure switch, gas orifice and front cover (✓ in spec sheet represent it is required and “—” means no change needed. In addition to using smaller orifices to reduce the fuel input, a different pressure switch might be used above the maximum (as shipped) rated altitude. A high-altitude pressure switch might be needed because of the reduction in air density and is required regardless of the Btu content of the fuel used.

IMPORTANT INFORMATION



WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

IF THE GAS FURNACE IS INSTALLED IN A BASEMENT, AN EXCAVATED AREA OR A CONFINED SPACE, IT IS STRONGLY RECOMMENDED TO CONTACT A PROPANE SUPPLIER TO INSTALL A GAS DETECTING WARNING DEVICE IN CASE OF A GAS LEAK.

- SINCE PROPANE GAS IS HEAVIER THAN AIR, ANY LEAKING GAS CAN SETTLE IN ANY LOW AREA OR CONFINED SPACES.
- PROPANE GAS ODORANT MAY FADE, MAKING THE GAS UNDETECTABLE EXCEPT WITH A WARNING DEVICE.



WARNING

IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

- WHAT TO DO IF YOU SMELL GAS:

- DO NOT TRY TO LIGHT ANY APPLIANCE.
 - DO NOT TOUCH ANY ELECTRICAL SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING.
 - IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW THE GAS SUPPLIER'S INSTRUCTIONS. IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.
- INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.



WARNING

PERSONAL INJURY OR DEATH MAY RESULT FROM IMPROPER INSTALLATION OR MAINTENANCE PERFORMED BY UNTRAINED PERSONNEL. CALL YOUR INSTALLING DEALER OR OTHER QUALIFIED SERVICE COMPANIES TO PERFORM THE INSTALLATION OR MAINTENANCE INSPECTION.



WARNING

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT USE THIS UNIT IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE FURNACE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL HAVING BEEN UNDER WATER.

Contact a local propane gas supplier about installing a gas detecting warning device.

NOTE: To ensure proper operation, install, operate and maintain the unit in accordance with these installation instructions, all local building codes and ordinances. In their absence, follow the latest edition of the National Fuel Gas Code (NFPA 54/ANSI Z223.1), and/or CAN/CSA B149.1 Installation Codes.



CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

Parts Selection by Altitude Instructions:

Refer to the product specification sheet to identify parts required for specific altitudes.

Component Selection:

Based on unit type and target altitude, replace the following if listed in the accessories table (see Specification sheet).

- Pressure Switch
- Gas Orifices
- Front Cover

Verification: Confirm all selections match the Accessories Table from the Product Specification sheet.

Gas Orifice Kit HA-06:

Natural Gas (NG): #48 orifices

Liquid Propane (LP): #56 orifices

High-Altitude Service Parts:

Pressure Switch and Front Cover (when required) are available as service parts.

Order based on specific altitude requirements per the specification sheet.

The conversion from “standard altitude” natural gas orifices and pressure switch assembly to “high altitude” natural or propane orifices and pressure switch assembly requires the following tools and supplies:

- 1 - 7/16" box wrench
- 1 - 1/4" nut driver
- 1 - 3/16" allen wrench
- 1 - 1/4" flat blade screwdriver
- 1 - Manometer to read inlet and outlet pressure of the gas valve (minimum range: 0" - 20" W.C.)
- Gas leak detection solution like soap and water solution. Always wipe the solution from the joints when testing is completed.

Before proceeding, shut OFF gas supply at manual shut off and turn off power to the unit.

ORIFICE AND PRESSURE SWITCH ASSEMBLY INSTALLATION

1. Shut OFF gas supply at manual shutoff and turn OFF power to the unit.
2. Remove access door.
3. Disconnect wiring from the gas valve.
4. Remove the screws securing the gas manifold and valve to the burner bracket and retain. Separate gas manifold and valve from burner bracket.

NOTE: If for Natural Gas conversion proceed to step 5 and upon completion of step 5 skip to step 9. If Propane Gas conversion skip step 5 and jump to step 6 PROPANE GAS BURNER ORIFICE and GAS VALVES SPRING REPLACEMENT step.

5. NATURAL GAS BURNER ORIFICE REPLACEMENT

- a. Remove standard altitude natural gas orifices from gas manifold using a box end wrench.

- b. Visually inspect Natural gas high altitude orifices (B2589906) for damage and drill size (marked on face with #48) before installation. Using 7/16" box-end wrench, remove all existing #45 natural gas orifices and replace with the appropriate #48 natural gas high altitude orifices supplied in the kit. Tighten orifices with a box-end wrench; do not cross-thread or overtighten. Orifice usage depends on an installation's gas usage and altitude.

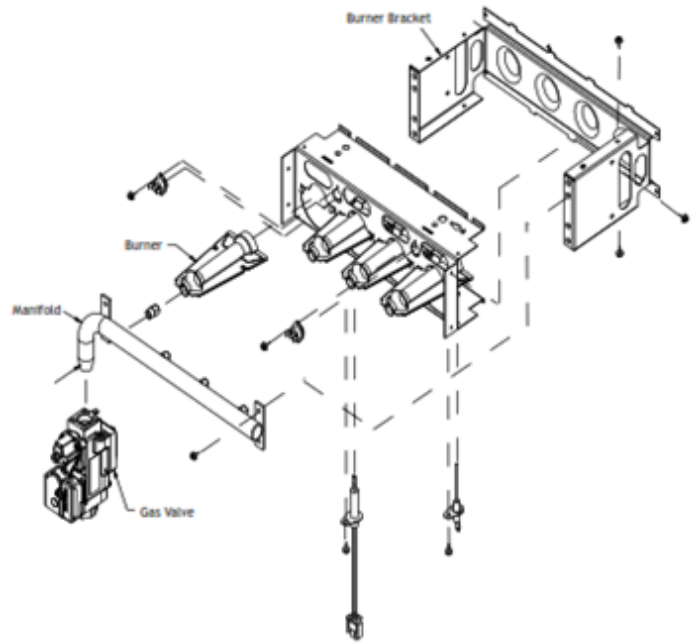


Figure 1
Gas Manifold Removal

6. PROPANE GAS BURNER ORIFICE AND GAS VALVES SPRING REPLACEMENT

IMPORTANT: Propane gas is heavier than air and does not vent upward as natural gas fuels.

Single-Stage Models

- a. Remove standard altitude natural gas orifices from gas manifold using a box end wrench.
- b. Visually inspect Propane gas high altitude orifices (B2589908) for damage and drill size (marked on face with #56) before installation. Using 7/16" box-end wrench, remove all existing #45 natural gas orifices and replace them with the appropriate #56 propane gas high altitude orifices supplied in the kit. Tighten orifices with a box-end wrench; do not cross-thread or overtighten. Orifice usage depends on an installation's gas usage and altitude.
- c. Remove both regulator cover screws from gas valve.
- d. Using a 1/4" flat blade screwdriver, remove both regulator adjustment screws (beneath the cover screw),
- e. Remove both Natural Gas springs (color coded silver/plain) from regulator sleeves and retain with the Natural Gas orifices for future reconversion.
- f. Insert the L.P. regulator springs (provided in the conversion kit and color-coded white) into the regulator sleeves.

Two-Stage Models

- Remove standard altitude natural gas orifices from gas manifold using a box end wrench.
 - Visually inspect Propane gas high altitude orifices (B2589908) for damage and drill size (marked on face with #56) before installation. Using 7/16" box-end wrench, remove all existing #45 natural gas orifices and replace with the appropriate #56 propane. Tighten orifices with a box-end wrench; do not cross-thread or overtighten. Orifice usage depends on an installation's gas usage and altitude.
 - Remove both regulator cover screws from gas valve.
 - Using a 1/4" flat blade screwdriver, remove both regulator adjustment screws (beneath the cover screw),
 - Remove both Natural gas regulator springs (color-coded silver/plain) from regulator sleeves and retain with the Natural Gas orifices for future reconversion.
 - Insert the L.P. regulator springs [provided in the conversion kit (0163F00000P) and color-coded white] into the regulator sleeves.
- Replace the High regulator adjustment screw and adjust until screw reaches the bottom stop, then follow the instructions in the Adjustment and Checks section to verify manifold pressure falls into the desired range.
 - Replace the Low regulator adjustment screw and adjust until screw reaches the bottom stop, then follow the instructions in the Adjustment and Checks section to verify manifold pressure falls into the desired range.

NOTE: If converting furnace to LP gas, a low pressure switch (LPLP03) should be installed to prevent the furnace from firing when the LP gas supply pressure is too low to support proper combustion.

The LPLP03 pressure switch kit provides control over the furnace gas valve by routing the gas valve wiring through the supplied pressure switch. To enable proper fit-up, the pressure switch kit must be installed before connecting the gas supply line to the gas valve. The kit hardware can be connected to the gas valve while the gas manifold is removed for LP gas orifice conversion.

NOTE: All threaded connections must be sealed with Teflon tape or pipe dope. Pipe sealant must be approved for use with propane gas.



CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH CONVERSION.

NOTE: Before installing the LPLP03 kit, ensure gas supply and power to the furnace is turned OFF.

- Install field-supplied 1/2" x length required to exit wrap-

per, when the inlet is on left side.

- When the inlet is on the right side, install field-supplied 1/2" x 1 1/2" required for "C and D" size cabinet models. "B" cabinet models require a field supplied 1/2" x length sufficient to be clear from any interference from other components. The pressure switch can be installed within or outside the cabinet in case of right-side inlet.
 - Install 1/2" tee on pipe.
 - With gas valve and manifold installed in the unit, connect the gas supply line into 1/2" tee as required (typically opposite of gas valve side).
 - Install 1/2" x 1/8" bushing into 1/2" tee in the remaining opening.
 - Install pressure switch in bushing.
- NOTE:** Ensure that the switch is upright in all applications.
- Perform installation check out procedure (piping leak check, line pressure measurement, manifold pressure adjustment, etc.) as outlined in the unit installation instructions.
 - Turn OFF gas supply.
 - Turn OFF power to furnace. Connect jumper harness between LPLP switch and gas valve and gas valve wiring as indicated in Figure 4 (single-stage models - some models may require the use of long single-stage harness) or Figure 5 (two-stage models). Some two-stage models may require the use of long jumper wires to accommodate connection of the switch. (2nd long jumper wire can be taken from long single stage harness.)

NOTE: Do not run wires through the gas pipe opening if gas piping is present. Pipe could easily cause damage to the wires.

- Turn ON power to furnace. Verify proper unit operation.
- Remove backing from kit label. Fold label around jumper harness wire to indicate kit installation.
- Adhere kit wiring diagram adjacent to existing unit wiring diagram.

IMPORTANT NOTE: Secure all wires to avoid contact with any hot surfaces or moving parts.

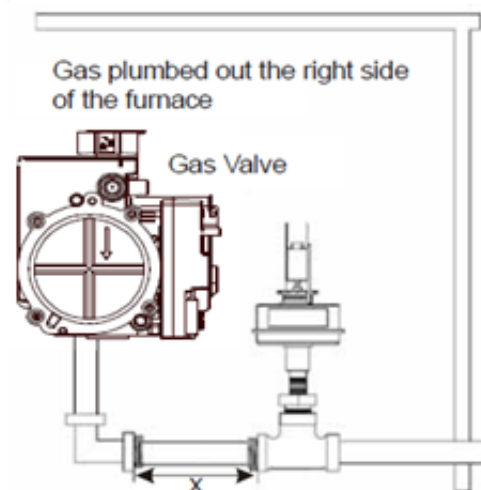


Figure 2

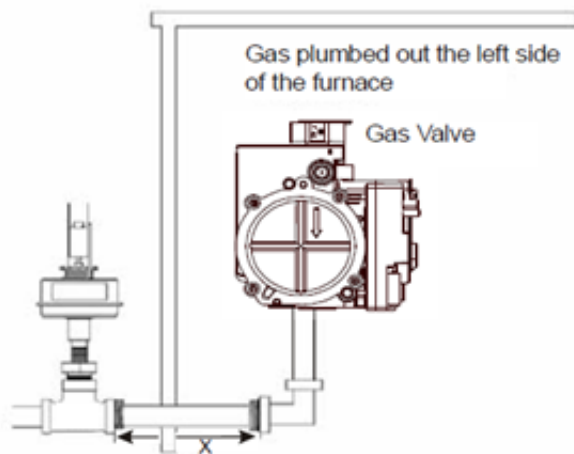


Figure 3

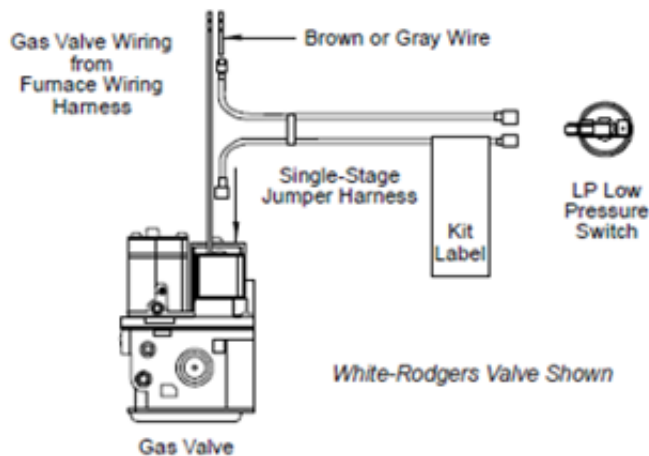


Figure 4
Wiring Harness for Single-Stage Furnaces

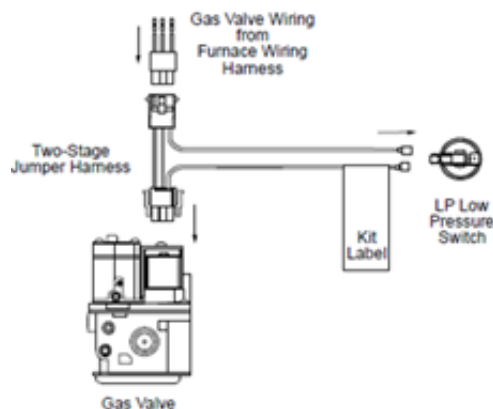


Figure 5
Wiring Harness for Two-Stage furnaces

Single-Stage Pressure Switch

- Locate pressure switch assembly located on the induced draft blower.
- NOTE:** Front Cover pressure switch with two gray wires does not require a change.
- Disconnect the pressure switch hose from the pressure switch assembly tee.
- Disconnect (yellow and orange) wiring from ID Blower pressure switch.

- Remove screw securing standard altitude ID Blower pressure switch to switch assembly.
- Install high altitude ID Blower pressure switch mentioned in Product spec sheet for different elevation using screw removed in Step 9d.
- Reconnect wiring to pressure switch assembly.
- Reconnect pressure switch hose to new assembly.

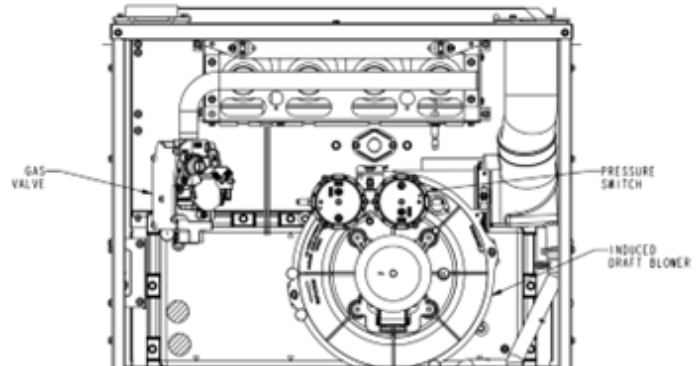


Figure 6
(Single Stage Upflow shown, counterflow similar)

Two-Stage Pressure Switch

- Locate two-stage pressure switch assembly (High & low fire) located on the induced draft blower.
- NOTE:** Single pressure switch (Blocked drain) with two gray wires does not require a change.
- Disconnect the pressure switch hose from the pressure switch assembly tee.
- Disconnect high stage (yellow and orange) and low stage (brown and orange) wiring from pressure switches.
- Remove mounting bracket screw securing standard altitude pressure switch assembly to induced draft blower.
- Install high altitude pressure switch assembly (listed in spec sheet) using screw removed in Step 4.
- Reconnect wiring to pressure switch assembly.
- Reconnect pressure switch hose to new assembly.

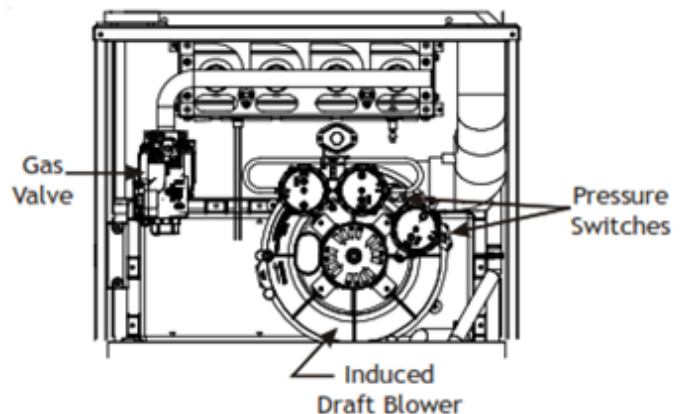


Figure 7
(Two Stage Upflow shown, counterflow similar)

ADJUSTMENTS AND CHECKS

The following adjustments and checks are a required part of this conversion. Adjustment and checks include:

- Leak checking orifices.
- Checking and adjusting line and manifold gas pressures.
- Verifying proper unit operation (input rate, operational sequence, burner flame, temperature rise, etc.).



WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.



CAUTION

TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE DUE TO FIRE, MAKE CERTAIN WIRES DISCONNECTED FROM THE PRESSURE SWITCH DURING THE PROCEDURE ARE PROPERLY RECONNECTED.

Single-Stage Valve

1. Connect a calibrated manometer or appropriate gas pressure gauge at either the gas valve inlet pressure tap or gas piping drip leg. The gas supply and manifold pressure on White-Rodgers 36J22 gas valves, can be checked with a gas pressure test kit (Part # 0151K00000S) available in this kit. Manometer connections to the gas valve are similar to the 2-stage valve.
2. Turn ON the power and gas, put the unit into heating cycle and turn on all other gas consuming appliances.
3. Leak check burner orifice threads using soap solution.
4. Measure the gas supply pressure with the burners firing. The inlet gas pressure for natural gas should be between 5.0- and 10.0-inches W.C. The inlet gas pressure for propane gas must be between 11.0- and 13.0-inches W.C. If supply pressure differs from required, make necessary adjustments to pressure regulator(s), gas piping, etc.
5. Turn OFF gas to the unit at the manual shutoff valve and disconnect manometer. Reinstall line pressure tap plug. Turn OFF any unnecessary appliances started in step 2.

Two-Stage Valve

1. Connect a calibrated manometer or appropriate gas pressure gauge at either the gas valve inlet pressure tap or gas piping drip leg. The gas supply and manifold pressure on White-Rodgers 36J54 gas valves, used on single and two stage furnaces can be checked with a gas pressure test kit (Part # 0151K00000S) available through our authorized distributors.
2. Turn ON the power and gas, put the unit into heating cycle and turn on all other gas consuming appliances.
3. Leak check burner orifice threads using soap solution.

4. Measure the gas supply pressure with the burners firing. The inlet gas pressure for natural gas should be between 5.0- and 10.0-inches W.C. The inlet gas pressure for propane gas must be between 11.0- and 13.0-inches W.C. If supply pressure differs from required, make necessary adjustments to pressure regulator(s), gas piping, etc.
5. Turn OFF gas to the unit at the manual shutoff valve and disconnect manometer. Reinstall line pressure tap plug. Turn OFF any unnecessary appliances started in step 2.

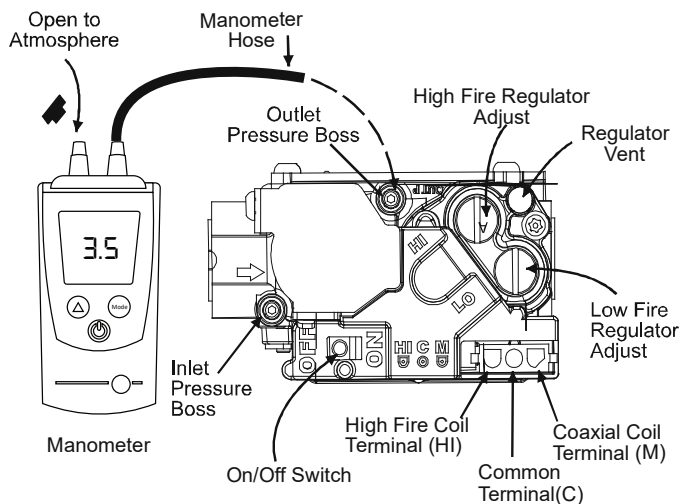


Figure 8

White-Rodgers Model 36J54 Connected to Manometer

MANIFOLD PRESSURE CHECK

Only small variations in gas flow should be made by adjusting the gas valve pressure regulator. See Table 3 for the required natural gas manifold pressure and see Table 4 for the required propane gas manifold pressure.

Natural Gas Manifold Pressure

Single Stage

3.2 to 3.8" w.c.

Table 1

Propane Gas Manifold Pressure

Single Stage

9.7 to 10.3" w.c.

Table 2

Natural Gas Manifold Pressure

Low Stage

1.6 to 2.2" w.c.

High Stage

3.2 to 3.8" w.c.

Table 3

Propane Gas Manifold Pressure

Low Stage

5.7 to 6.3" w.c.

High Stage

9.7 to 10.3" w.c.

Table 4

Single-Stage Valve

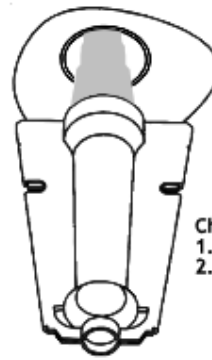
1. Turn OFF gas to the unit at the manual gas shutoff valve.
2. Connect a calibrated manometer or appropriate gas pressure gauge at the gas valve outlet pressure tap. The gas supply and manifold pressure on White-Rodgers 36J22 gas valves can be checked with a gas pressure test kit (Part #0151K00000S) available in this kit.
3. Turn ON gas supply and operate unit.
4. Remove the cap screw from the manifold pressure regulator adjustment location.
5. Using an Allen wrench, adjust manifold regulator (clockwise to increase, counterclockwise to decrease) to the required manifold pressure (Table 3 for Natural Gas or Table 4 for Propane Gas).
6. Reinstall the manifold pressure regulator cap screw. Confirm manifold pressure.
7. Turn OFF gas supply to unit. Disconnect manometer and reinstall manifold pressure tap plug.

Two-Stage Valve

1. Turn OFF gas to the unit at the manual gas shutoff valve.
2. Connect a calibrated manometer or appropriate gas pressure gauge at the gas valve outlet pressure tap. The gas supply and manifold pressure on White-Rodgers 36J54 gas valves, used on single and two stage furnaces, can be checked with a gas pressure test kit (Part # 0151K00000S) available through our authorized distributors.
3. Turn ON gas supply and operate unit.
4. Remove the cap screw from the high stage manifold pressure regulator adjustment location.
5. Using an Allen wrench, adjust high stage manifold regulator to the required manifold pressure (Table 3 for Natural Gas or Table 4 for Propane Gas).
6. Reinstall the high stage manifold pressure regulator cap screw. Confirm high stage manifold pressure.
7. Remove the cap screw from the low stage manifold pressure regulator adjustment location.
8. Using an Allen wrench, adjust low stage manifold regulator to the required manifold pressure.
9. Reinstall the low stage manifold regulator cap screw. Confirm low stage manifold pressure.
10. Turn OFF gas supply to unit. Disconnect manometer and reinstall manifold pressure tap plug.

INSPECT BURNER FLAME

The burner flames should be stable, soft and blue (dust may cause orange tips but they must not be yellow). They should extend directly outward from the burners without curling, floating, or lifting off.



Check the burner flames for:
1. Stable, soft and blue
2. Not curling, floating, or lifting off.

Figure 9
Burner Flame

CHECK AND ADJUST UNIT TEMPERATURE RISE

Check and adjust unit temperature rise(s) as described in the installation manual. Temperature rise must be within the range shown on the furnace rating plate.

Front collector box cover kit Installation instructions

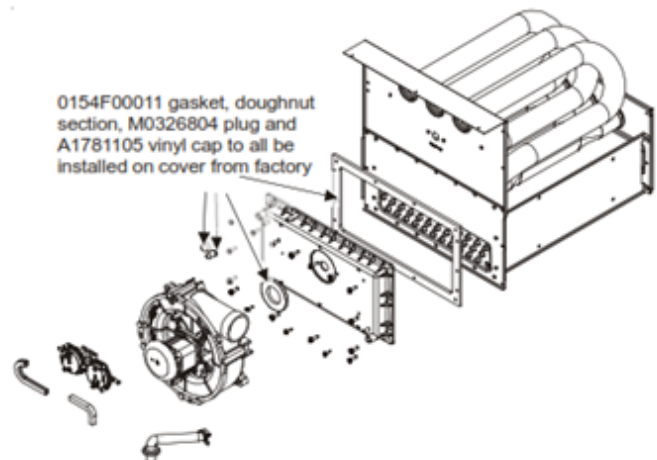


Figure 10

Description

This front cover replacement must be installed by trained and qualified professionals. HVAC Technicians only and is for use on models listed in the Product Specification sheet for high altitude installations.

KIT Contents

Ensure all parts are included before beginning. If parts are missing contact the distributor where the kit was purchased.

QTY	Part #	Description
1	0161F000XX	Cover, Front
1	0154F00018	Gasket-Front & Inducer

Table 5



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR
INSTALLING THIS UNIT. MULTIPLE POWER SOURCES
MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE
PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



CAUTION

EDGES OF SHEET METAL HOLES MAY BE SHARP. USE GLOVES AS
PRECAUTION WHEN REMOVING HOLE PLUGS.



DANGER PELIGRO



CARBON MONOXIDE POISONING HAZARD

Special Warning for Installation of Furnace or Air Handling Units in
Enclosed Areas such as Garages, Utility Rooms or Parking Areas

Carbon monoxide producing devices (such as an automobile, space heater, gas water heater, etc.) should not be operated in enclosed areas such as unventilated garages, utility rooms or parking areas because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area such as a garage, utility room or parking area and a carbon monoxide producing device is operated therein, there must be adequate, direct outside ventilation.

This ventilation is necessary to avoid the danger of CO poisoning which can occur if a carbon monoxide producing device continues to operate in the enclosed area. Carbon monoxide emissions can be (re)circulated throughout the structure if the furnace or air handler is operating in any mode.

CO can cause serious illness including permanent brain damage or death.

B10259-216

RIESGO DE INTOXICACIÓN POR MONÓXIDO DE CARBONO

Advertencia especial para la instalación de calentadores ó manejadoras de aire en áreas cerradas como estacionamientos ó cuartos de servicio.

Los equipos ó aparatos que producen monóxido de carbono (tal como automóvil, calentador de gas, calentador de agua por medio de gas, etc) no deben ser operados en áreas cerradas debido al riesgo de envenenamiento por monóxido de carbono (CO) que resulta de las emisiones de gases de combustión. Si el equipo ó aparato se opera en dichas áreas, debe existir una adecuada ventilación directa al exterior.

Esta ventilación es necesaria para evitar el peligro de envenenamiento por CO, que puede ocurrir si un dispositivo que produce monóxido de carbono sigue operando en el lugar cerrado.

Las emisiones de monóxido de carbono pueden circular a través del aparato cuando se opera en cualquier modo.

El monóxido de carbono puede causar enfermedades severas como daño cerebral permanente ó muerte.

B10259-216

RISQUE D'EMPOISONNEMENT AU MONOXYDE DE CARBONE

Avertissement special au sujet de l'installation d'appareils de chauffage ou de traitement d'air dans des endroits clos, tels les garages, les locaux d'entretien et les stationnements.

Evitez de mettre en marche les appareils produisant du monoxyde de carbone (tels que les automobile, les appareils de chauffage autonome, etc.) dans des endroits non ventilés tels que les d'empoisonnement au monoxyde de carbone. Si vous devez faire fonctionner ces appareils dans un endroit clos, assurez-vous qu'il y ait une ventilation directe provenant de l'exterieur.

Cette ventilation est nécessaire pour éviter le danger d'intoxication au CO pouvant survenir si un appareil produisant du monoxyde de carbone continue de fonctionner au sein de la zone confinée.

Les émissions de monoxyde de carbone peuvent être recirculées dans les endroits clos, si l'appareil de chauffage ou de traitement d'air sont en marche.

Le monoxyde de carbone peut causer des maladies graves telles que des dommages permanents au cerveau et même la mort.

B10259-216

Front cover replacement Instruction:

Not all steps below apply to a furnace in inventory. If furnace is in inventory, the packaging will have to be removed and then follow steps 6-11.



WARNING

DISCONNECT ALL GAS AND ELECTRICAL POWER SUPPLY.

1. Turn off electrical supply to furnace, use a reliable electrical tester and verify no voltage is present at furnace.
2. Turn off gas supply to furnace.
3. Unplug the draft inducer harness.
4. Uninstall draft inducer by removing the four screws securing it to the collector box.
5. Disconnect the drain hose from the collector box cover.
6. Remove screws and save them from collector box cover and gently remove collector box cover taking care to catch condensate. Note: There is no need to catch condensate for Inventory units.
7. Remove ALL old gasket material and debris from the heat exchanger, taking care not to damage the mating surfaces as they must provide a leak free seal. A wide flat scraper and a wire brush are the recommended tools to accomplish this task.
8. Install front collector box cover with attached gasket using screws previously removed in step 6. Using a nut driver by hand, tighten the screws (25 in-lbs.). Gasket compression should be uniform.
9. Inspect the seal all around to verify no gaps are present.
10. Taking care to make sure the inducer gasket is in place on the collector box cover, re-install the draft inducer assembly and secure with 4 screws removed in step 4, connect wiring harness. If furnace is installed, proceed to next step. If furnace is not installed and in inventory, re-install packaging for shipment of product.
11. Start furnace. Check for proper flame characteristics, no roll out or distortion with indoor blower operating.
12. Before leaving the job, check and verify all settings and operational readings are safe and within specification, such As gas pressures, fan speed, temperature rise, carbon monoxide tests in supply air and flue termination.

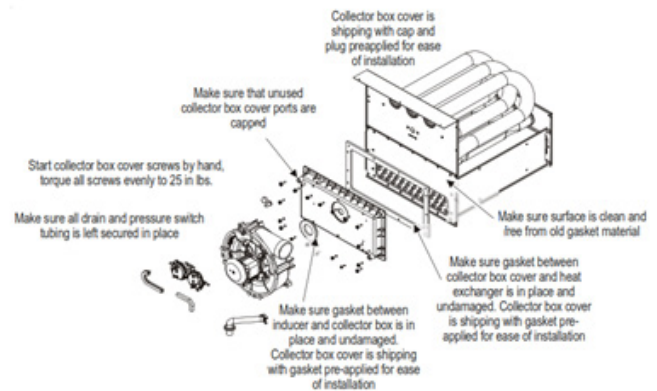


Figure 11

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CUSTOMER FEEDBACK

We are very interested in all product comments.

Please fill out the feedback form on one of the following links:

Daikin Products: (<https://daikincomfort.com/contact-us>)

Goodman® Brand Products: (<http://www.goodmanmfg.com/about/contact-us>).

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You can also scan the QR code on the right for the product brand you purchased to be directed to the feedback page.



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