INSTALLATION INSTRUCTIONS WHITE RODGERS 36E55 TWO-STAGE VALVE WITH DIRECT SPARK IGNITION

BEFORE INSTALLING THIS KIT, CHECK THE ENCLOSED "CONVERSION KIT INDEX" (92-21519-47 OR -48) TO BE SURE YOU HAVE THE RIGHT KIT FOR THE FURNACE MODEL YOU ARE CONVERTING.

TO CONVERT FROM NATURAL TO LP GAS USE KIT NUMBER EP86W OR EP86W-H

PARTS LIST		
DESCRIPTION	**PART NUMBER**	**EP86W**
Kit - Model Index Sheet	92-21519-47 or 48	1
Installation Instructions	92-22999-77	1
Conversion Label	92-18153-06	2
L P Gas Valve – White-Rodgers	60-23490-14	1
Orifice - Burner (#54)	62-21551-54	6
Orifice - Burner (#55)	62-21551-55	6

⚠ Recognize this symbol as an indication of Important Safety Information!

⚠ WARNING

THIS CONVERSION KIT IS TO BE INSTALLED BY A QUALIFIED SERVICE PROFESSIONAL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED PERSONNEL PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

IMPORTANT: DAMAGE TO THE PRODUCT RESULTING FROM FAILURE TO FOLLOW INSTRUCTIONS OR USE OF UNAUTHORIZED PARTS MAY BE EXCLUDED FROM THE MANUFACTURER'S PRODUCT WARRANTY COVERAGE.

IMPORTANT NOTE FOR ALTITUDES ABOVE 2,000 FEET: There are two sizes of main burner orifices in this kit. These orifice sizes will cover all models installed at 0 - 2000 feet (0 - 610 meters) in the USA and Canada and all derated high altitude models installed in Canada at 2000 - 4500 feet (610 - 1373 meters). Refer to Chart III in the Conversion Kit Index (92-21519-47 or -48) included with this kit to select the current orifice size for the nameplate heating input, elevation, and country (USA or Canada) of the furnace to be converted. Orifices for elevations over 2000 feet (610 meters) in the USA must be obtained through the Parts Department if they are not included with this kit.

IN USA: All gas piping must comply with the latest NFPA 54 National Fuel Gas Code and all state and local codes. All electrical wiring must comply with the latest NFPA 70, National Electrical Code and all state and local codes.

IN CANADA: All gas piping must comply with the latest CAN 1-B149-1 & 2 installation codes for gas burning appliances and all provincial and local codes. All electrical wiring must comply with the Canadian Electrical Code, Part 1 - CSA Standard C22.1 and all provincial and local codes.

KIT INSTALLATION

⚠ WARNING

TURN OFF ELECTRICAL POWER AND MAIN GAS SUPPLY BEFORE BEGINNING MODIFICATION. FAILURE TO DO SO CAN RESULT IN ELECTRICAL SHOCK, EXPLOSION OR FIRE RESULTING IN PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

1. Disconnect union ahead of combination gas valve and unscrew pipe nipple from gas valve.
2. Remove screws that secure the furnace access panel and remove access panel or swing panel out of the way.
3. Remove sheet metal cover in front of the gas valve on models with this cover.
4. Disconnect wires from gas valve.
5. On models with a removable cover in front of the gas valve, remove gas valve from manifold assembly and replace with LP gas valve included with the kit at this time.
6. Remove the 4 screws that attach the manifold assembly to the burner tray and pull manifold assembly away from burner tray. On models without removable cover in front of gas valve, remove gas valve and replace with LP gas valve included with thee kit at this time.

   Notice: A pipe compound resistant to the action of liquefied petroleum gases must be used at all threaded pipe connections.

CHECKING AND ADJUSTING GAS PRESSURE

1. The LP gas supply pressure must be set between 11 and 14″ W.C. by means of the tank or branch supply regulators.
2. The furnace manifold pressure should be 10″ W.C. for high fire and 2.6″ W.C. for low fire. The valve comes from the factory preset at these pressures. These pressures can be checked by connecting a properly calibrated manometer or gauge to the manifold pressure tap on the outlet end of the valve. Check and adjust pressures as follows:
   a. For full input pressure remove adjustment screw cover on outlet end of valve (see Figure 3) and turn adjustment screw clockwise to increase pressure and counterclockwise to reduce pressure. Replace the adjustment cover screw securely.
   b. For low fire pressure, remove the regulator cover on top of valve and adjust as noted above.

COMPLETING CONVERSION

1. Using a ball point indelible pen, record the following information on the conversion label.
   a. Conversion kit number.
   b. Date of conversion.
   c. Installer's name, address and telephone number.
   d. Burner orifice size.
2. Place completed conversion label adjacent to the rating plate.
3. Install the burner compartment access door.
4. Run furnace through complete cycle to check operation.

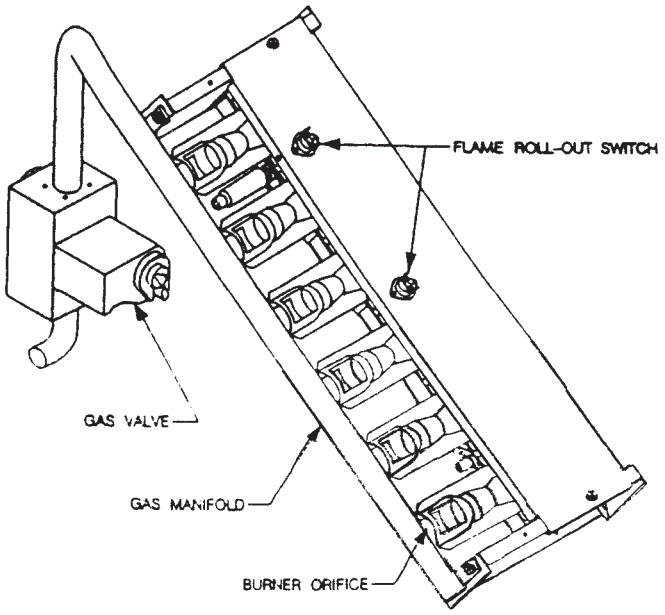


FIGURE 1. GAS CONTROL & BURNER ORIFICE LOCATIONS FOR (-)KKA ROOFTOP MODELS

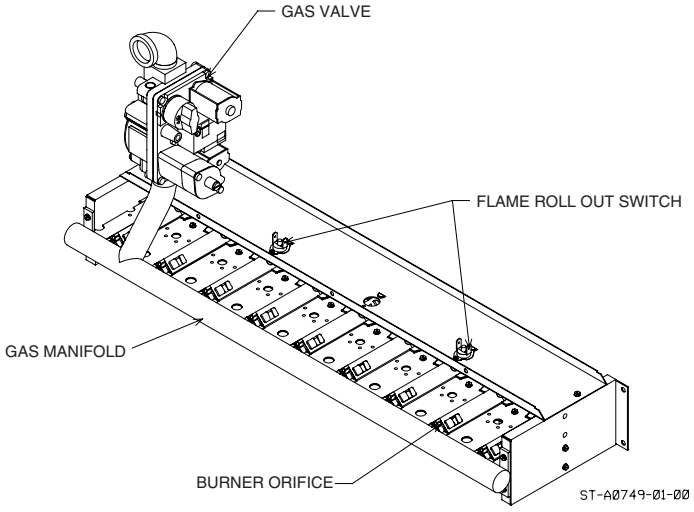


FIGURE 2. GAS CONTROL AND BURNER ORIFICE LOCATIONS FOR (-)KKB ROOFTOP MODELS

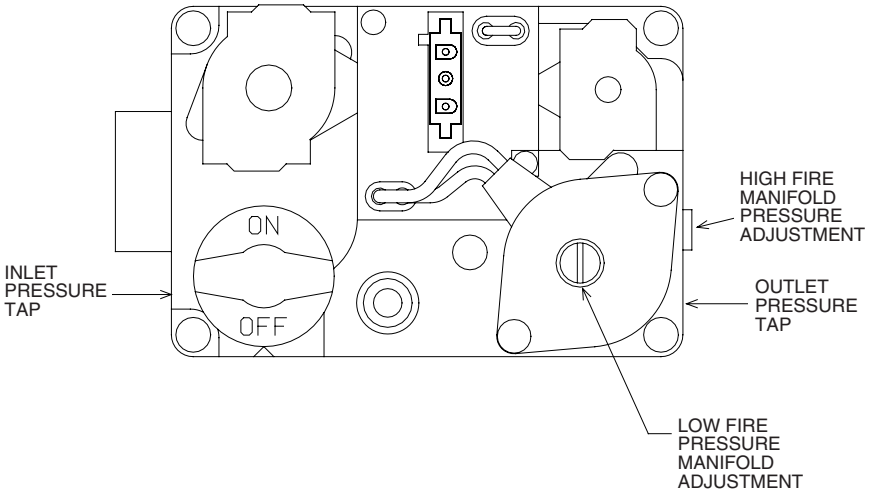


FIGURE 3. GAS VALVE