REZNOR[®]

Form CP-F/B-GC (Version A)

Obsoletes Form CP-F/B-GC

Gas Conversion Kits and Instructions

Applies to: Models F, B, FE, and BE



All gas conversion must be done by a qualified service person in accordance with these instructions and in compliance with all codes and requirements. In Canada, gas conversion shall be carried out in accordance with the requirements of the Provincial Authorities having jurisdiction and in accordance with the requirements of the CAN/CGA-B149.1 and .2 installation code.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

FOR YOUR SAFETY

- 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.
 - Leave the building immediately.
 - Immediately call your gas supplier from a phone remote from the building. 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.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

DANGER: The conversion kit is to be selected and installed by a qualified service person in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. Failure to follow instructions could result in death, serious injury, and/or property damage. The qualified agency performing this work assumes responsibility for this conversion.

HAZARD INTENSITY LEVELS

- 1. DANGER: Failure to comply will result in severe personal injury or death and/or property damage.
- 2. WARNING: Failure to comply could result in severe personal injury or death and/or property damage.
- 3. CAUTION: Failure to comply could result in minor personal injury and/or property damage.

DANGER: The gas burner in this gas-fired equipment is designed and equipped to provide safe and economically controlled <u>complete combustion</u>. However, <u>if the installation</u> does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is <u>incomplete combustion</u> which produces carbon monoxide, a poisonous gas that can cause death. <u>Safe operation of indirectfired gas burning equipment requires a properly operating vent</u> system which vents all flue products to the outside atmosphere. FAILURE TO PROVIDE PROPER VENTING WILL RESULT IN A HEALTH HAZARD WHICH COULD CAUSE SERIOUS PERSONAL INJURY OR DEATH.

Always comply with the combustion air requirements in the installation codes and instructions. Combustion air at the burner should be regulated only by manufacturer-provided equipment. NEVER RESTRICT OR OTHERWISE ALTER THE SUPPLY OF COMBUSTION AIR TO ANY HEATER. Indoor units installed in a confined space must be supplied with air for combustion as required by Code and in the heater installation manual. MAINTAIN THE VENT SYSTEM IN STRUCTURALLY SOUND AND PROPERLY OPERATING CONDITION.

Description and Kit Selection

The gas conversion kits in these instructions are for a Model F, FE, B, or BE heater equipped with a single-stage valve.

In order to determine which conversion kit is compatible to your heater, it is necessary to know the type of valve that is on the heater. This information is determined by decoding the heater serial number. From the rating plate, copy the complete Model and Serial No. of the heater. Also, copy the manufacturer's number on the gas valve. Follow the example below to decode the Serial No.

Example of a Heater Serial No.: AWA31K5N12345

| AWA | 31 | K5 | Ν | 12345 | |
|------------------------------------|------------|---------|---------|-------------|--|
| Month & Year | Safety | Type of | Type of | Consecutive | |
| of Manufacturer | Pilot Code | e Valve | Gas* | Number | |
| * N = Natural Gas; L = Propane Gas | | | | | |

Gas Conversion Instructions -Models F, FE, B, BE

1. Verify Kit Selection - Check to be certain that the gas conversion kit is the appropriate kit for the unit being converted. Compare the Heater Model No., the Serial No. Safety Pilot Code, and the Serial No. Valve Code.

IMPORTANT: Also, because the serial number code can only identify the original equipment, compare the actual Model Nos. on the valve and the ignition controller to those listed for the kit. If either of the actual Model Nos. are different from the ones listed, do not install the kit. Contact your Reznor Representative to select and verify parts required for gas conversion.

- 2. Additional Parts May Be Required If you are converting to propane, and your heater is a Size 130-400 equipped with optional stainless steel burners, it is necessary to order and install burner air shutters. (Air shutters may be used on aluminized burners but are not normally required.) A list of burner air shutter part numbers can be found on page 8. Air shutters are not included in the conversion kits and must be ordered separately.
- **3. Turn off the gas supply** at the shutoff valve **upstream** of the control valve on the heater **and disconnect the electrical power**.
- **4. Install the Regulator Spring Kit or Change the Valve** To install a regulator spring kit, follow the valve manufacturer's installation instructions that are included with the regulator spring kit. After a new regulator spring kit is installed, it is necessary to adjust the spring for the correct manifold pressure. This adjustment can only be made after the heater is in operation. Instructions are included in Step No. 12 of the installation instructions.

WARNING: Manufacturer of regulator spring kit and gas valve must be the same. Spring kits of different manufacturers are not interchangeable, and each spring kit must be used only in the valve for which the kit is designated.

WARNING: The operating valve is the primary safety shutoff. The gas supply line must be free of dirt or scale before connecting the unit to ensure positive closure.

| To change the valve, first mark the wires before removing them from the exist- |
|--|
| ing valve. Consult the valve manufacturer's instruction sheet for installation |
| details and install the new valve. Field-supplied fittings may be required. If the |
| heater is equipped with an ECO device, be certain to connect it (applies to |
| Models F and B with match-lit pilot and all models with spark pilot manufac- |
| tured prior to approximately 8/99; check the wiring diagram). |
| |

| Wiring Terminal Identification | Valve Manufacturer | Common | Pilot * | Main | |
|---|---|----------------|---------|-------|--|
| | Honeywell (M/H) | TR | TH-TR | TH | |
| | | PV-MV | PV P | MV | |
| | White Rogers (W/R) or Robertshaw (R) | С | Ρ | М | |
| | Wire Color | White or Brown | Blue | Black | |
| *Pilot terminal is not used on match-lit units. | | | | | |

5. Change the Pilot Orifice

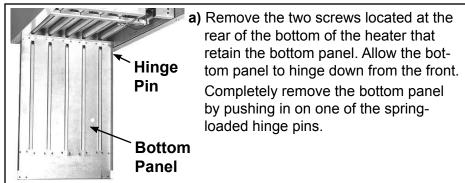


FIGURE 1 - Heater with Bottom Panel Hinged Down

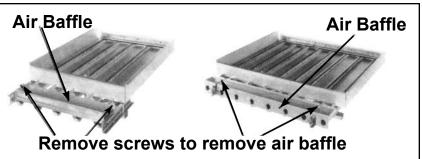
Gas Conversion Instructions -Models F, FE, B, BE (cont'd)

- **b)** The bottom of the pilot is now visible. Do the following:
 - (1) Disconnect the pilot tubing from the pilot burner.
 - (2) For match-lit (standing) pilot, disconnect the thermocouple from the valve.
 - (3) For spark pilot, disconnect the flame sensing wire and high tension (spark) lead from the ignition controller.
- c) <u>Heaters manufactured beginning 8/91</u> (Serial No. Date Code AQH) While supporting the burner rack, remove the screws (two or three) that hold the indexed burner rack support. Remove the support, allowing the burner rack assembly to swing down. Lift up on the rear and slide the burner assembly up and out of the manifold support brackets.

<u>Heaters manufactured prior to 8/91</u> - Loosen the sheetmetal screws (two or three) located at the front of the burner rack assembly. (These screws retain the burner rack support.) While supporting the burner rack assembly, slide the burner rack support and remove it from the screws. Allow the burner rack assembly to swing down. Lift up on the rear and slide the burner assembly up and out of the manifold support brackets.

- **d)** Remove the pilot from the burner rack and install the new pilot orifice. Reinstall the pilot burner on the burner rack. On units equipped with a pilot shield, be certain that the pilot shield is in place when replacing the pilot burner.
- 6. Remove Air Baffle (if applicable)

If you are converting from natural to propane, you may have to remove a factory-installed air baffle from the burner rack. Look at the burner rack that you have just removed to see if it is equipped with one of the air baffles illustrated in **FIGURE 2**. Not all heaters are equipped with an air baffle. If your burner rack is factory-equipped with either of these air baffles, remove the air baffle before converting to propane. Refer to **FIGURE 2** showing which screws to remove.



7. Change Burner Orifices

With the burner rack removed, the burner orifices are visible in the manifold pipe at the rear of the heater. (See **FIGURE 3**.) Remove all existing orifices and replace with the orifices included in the conversion kit. (NOTE: Kits that apply to various sizes of heaters include the quantity of burner orifices required for the largest size of heater. When converting the smaller sizes, there will be extra burner orifices which will not be used.)

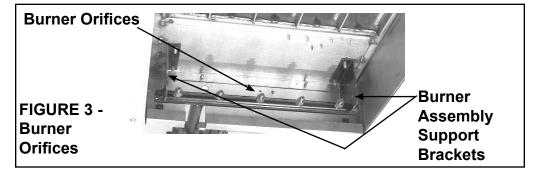


FIGURE 2 - Burner Rack with Factory-Installed Air Baffles

WARNING: Do not attempt to drill orifices. Use factory supplied orifices only.

8. Install Burner Air Shutters (if required)

Burner air shutters are required on Sizes 130-400 models equipped with optional stainless steel burners for use with propane gas. Air shutters may be used on aluminized burners but are not normally required.

Refer to the instructions included with the air shutter assembly for installation and adjustment.

DANGER: Failure to install and adjust burner air shutters according to directions could cause property damage, personal injury and/or death.

9. Re-Assemble the Heater

Reverse the above procedure to re-assemble the heater. Be certain that the burner rack is properly positioned and tight against the heat exchanger. If your conversion requires changing the ignition controller, do not re-connect the flame sensing wire and the high tension lead to the ignition controller. Do not replace the bottom panel.

10. Change the Ignition Controller (if required)

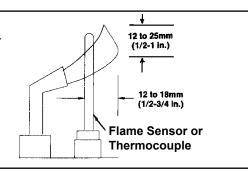
If your conversion requires an ignition controller with 100% lockout, the ignition controller with new wires and a new wiring diagram are included in the conversion kit.

- a) On the rear of the heater, locate the ignition controller. Disconnect the spark wire from the spike on the controller. Leave all other wires connected to the ignition controller; follow the wires and disconnect them from their various connections. Remove the ignition controller and attached wires.
- b) In the same location, attach the ignition controller mounting bracket to the heater using the #10x3/8" long screws included in the kit. With the ignition controller positioned so that the terminals are across the bottom, attach it to the mounting bracket using the #8x3/8" long screws.
- c) Refer to the new wiring diagram label in the kit and connect the wires. All of the wires are connected to the ignition controller at the factory except to the "TH" Terminal. Attach the loose black wire in the kit to the "TH" terminal and connect it to the limit control. (The yellow wire in the kit will not be used.)
- d) Select a location near the current wiring diagram on the unit to adhere the wiring label. Do not put the label on a surface that will be hot when the heater is operating and do not put it over the existing wiring diagram. Wipe the selected area with a clean dry cloth. Peel the backing and adhere the new label.
- 11. Turn on the electric and the gas. Relight, following the instructions on the heater. Check for gas leaks using a commercial leak detecting fluid or a rich soap and water solution. Leaks are indicated by the presence of bubbles. Check all connections which were worked on during the conversion including the pilot connections. If a leak cannot be stopped by tightening, replace the part.

Observe the pilot flame through the lighting hole. The flame should extend 1/2 to 1 inch past the flame sensing device (**See FIGURE 4**).

To adjust the pilot flame :

- 1) Remove the pilot adjustment cover screw on the valve.
- 2) Turn the inner adjustment screw clockwise to decrease or counterclockwise to increase the pilot flame
- Replace the cover screw after adjustment.



Ignition Controller with Lockout, P/N 257010



Minimum flame proving signal strength is 0.2 microamps.

Special Wiring Instructions when using an automatic vent damper:

Remove the plug from the ignition controller and plug in the wiring harness from the vent damper. The wiring harness electrically interlocks the vent damper to the control. Unplugging either end results in a system shutdown.

FIGURE 4 - Pilot Flame Adjustment

Gas Conversion Instructions -Models F, FE, B, BE (cont'd)

- **12. Adjust the manifold pressure.** Follow these requirements and instructions to adjust manifold gas pressure.
 - 1) The correct pressure adjustment depends on the area of the country in terms of elevation. If you don't know the elevation, check with your local gas company.

| Manifold Pressure Settings by Elevation | | | | | | |
|---|-----------|---------|---------|--|--|--|
| Elevation Ranges Natural Gas Propane | | | | | | |
| Feet | Meters | (inches | s W.C.) | | | |
| 0- 2000 | 1-610 | 3.5 | 10.0 | | | |
| 2001-3000 | 911-915 | 2.8 | 7.7 | | | |
| 3001-4000 | 916-1220 | 2.5 | 7.1 | | | |
| 4001-5000 | 1221-1525 | 2.3 | 6.4 | | | |
| 5001-6000 | 1526-1830 | 2.1 | 5.8 | | | |
| 6001-7000 | 1831-2135 | 1.9 | 5.2 | | | |
| 7001-8000 | 2136-2440 | 1.7 | 4.6 | | | |
| 8001-9000 | 2441-2745 | 1.5 | 4.1 | | | |

2) Determine the required manifold pressure for that elevation.

- 3) With the manual valve positioned to prevent flow to the main burners, connect a manometer to the 1/8" pipe outlet pressure tap in the valve. Use a water column manometer that is readable to the nearest tenth of an inch. NOTE: A manometer (fluid-filled gauge) is recommended rather than a spring type gauge due to the difficulty of maintaining calibration of a spring type gauge.
- **4)** Remove the cap from the pressure adjusting screw and adjust the manifold pressure to the pressure selected from the table above. Cycle the main burners once or twice to properly seat the adjustment spring in the valve.
- 5) Measure the manifold pressure. If adjustment is necessary, correct pressure setting by turning the regulator screw IN (clockwise) to increase pressure. Turn regulator screw OUT (counterclockwise) to decrease pressure. When the pressure is correct, remove the manometer and replace the cap. Check for leaks at the pressure tap fitting.

CAUTION: DO NOT bottom out the gas valve regulator adjusting screw. This can result in unregulated manifold pressure causing excess overfire and heat exchanger failure.

WARNING: Manifold gas pressure must never exceed 3.5" w.c. for natural gas or 10" w.c. for propane gas.

- 6) With the heater operating, determine that the inlet pressure to the heater is between 5 and 14 inches w.c. for natural gas or between 11 and 14 inches w.c. for propane gas. Take this reading as close as possible to the heater. (Most heaters are equipped with gas valves that have an inlet pressure tap.) If the inlet pressure is not within the specified range, the inlet pressure must be corrected and the manifold pressure re-checked.
- 7) If the gas valve has been adjusted for operation above 2000 ft, find the high altitude manifold pressure label in the kit. Using a permanent marker, fill-in the pressure setting and adhere the label to the heater in a conspicuous location close to the gas valve.

WARNING: Wait at least five minutes before attempting to relight heater in the event of pilot outage or improper ignition. **13.** Check for safe and proper operation by operating the heater for at least one cycle. Observe main burners for complete flame carryover. Observe cautiously from beneath the heater after ignition is established. Flame must be present on the full length of each burner.

If air shutters are used, adjust them according to the instructions supplied with the air shutters.

Replace the bottom panel.

Safety check the installation and equipment. Check that all safety devices are functioning properly.

14. Complete the information required on the gas conversion tape and affix the tape to the heater near the rating plate. Attach the disk to the heater near the gas valve.

| . . | Models | | o Propane Conversion Kit | | | See kit | | | |
|-------------------|-----------------------|--------------------------------------|--|--------------------------|--------------------|-----------------------------|----|-----------------|--------|
| Conversion | | Match-Lit or Spark Pilot | | Single-Stage Gas Valve | | components | | | |
| Kit P/N | FE, BE Size | Serial No. Pilot Codes | Ignition Control | Serial No. Valve Code | Valve Manufacturer | listed in: | | | |
| | | 31 | | K5 | M/H V8200M7003 | | | | |
| 99243 | 25 | 31 | None (Match-Lit) | 9B | M/H VR8200M7005 | TABLE 2, | | | |
| | | 05:04: 05 | JC G770NGC-4; JC G770NHC-1; | M4 | M/H VR8204M1000 | page 8 | | | |
| | 25 | 65; 84; or 95 | UTEC 1003-514 | W7 | M/H VR8104M2505 | | | | |
| 99249 |] | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | M4 | M/H VR8204M1000 | TABLE 3, | | | |
| 55245 | | 00 01 94 | JC #607BG-5, 0TEC 1003-038A | W7 | M/H VR8104M2505 | page 8 | | | |
| | | 31 | None (Match-Lit) | K5 | M/H V8200M7003 | | | | |
| 99244 | | 31 | | 9B | M/H VR8200M7005 | TABLE 4, | | | |
| 55 244 | 50 | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; | M4 | M/H VR8204M1000 | page 8 | | | |
| | 50 | 05, 64, 01 95 | UTEC 1003-514 | W7 | M/H VR8104M2505 | | | | |
| 99250 | | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | M4 | M/H VR8204M1000 | TABLE 5, | | | |
| 99200 | | 00 01 94 0C #007BG-3, 01EC 1003-038A | W7 | M/H VR8104M2505 | page 9 | | | | |
| | | 31 | None (Match-Lit) | K5 | M/H V8200M7003 | | | | |
| 00245 | | 31 | None (Match-Lit) | 9B | M/H VR8200M7005 | TABLE 6, | | | |
| 99245 75 | 75 | 65; 84; or 95 | 5 JC G770NGC-4; JC G770NHC-1; | M4 | M/H VR8204M1000 | page 9 | | | |
| | UTEC 1003-514 | W7 | M/H VR8104M2505 | | | | | | |
| 99251 | 1 | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | M4 | M/H VR8204M1000 | TABLE 7, | | | |
| 99201 | | 00 01 94 | JC #G67BG-5, UTEC 1003-656A | W7 | M/H VR8104M2505 | page 9 | | | |
| | | 31 | None (Match-Lit) | K5 | M/H V8200M7003 | TABLE 8, page 9 | | | |
| 99246 | | | | 9B | M/H VR8200M7005 | | | | |
| 99240 | 400 405 | DE 65: 94: 05 05 | 95 JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M4 | M/H VR8204M1000 | | | | |
| | 100, 125 | 65; 84; or 95 | | W7 | M/H VR8104M2505 | | | | |
| 00050 | | 66 or 94 | | M4 | M/H VR8204M1000 | TABLE 9, | | | |
| 99252 | | | | | 00 01 94 | JC #G67BG-5; UTEC 1003-638A | W7 | M/H VR8104M2505 | page 9 |
| 131582 | 400 405 | 04 | | K5 | M/H V8200M7003 | TABLE 10, | | | |
| 131562 | 130, 165 | 31 | None (Match-Lit) | 9B | M/H VR8200M7005 | page 9 | | | |
| 00247 | 130, 165, 200, 250 | 31 | None (Match-Lit) | K6 | W/R 36C03-211 | TABLE 11, | | | |
| 99247 | 200 400 | 05.04.05 | JC G770NGC-4; JC G770NHC-1; | M6 | W/R 36C68-452 | page 9 | | | |
| | 300, 400 | 65; 84; or 95 | UTEC 1003-514 | 9A | W/R 36H32-441 | | | | |
| 00050 | | 05 04 05 | JC G770NGC-4; JC G770NHC-1; | M4 | M/H VR8204M1000 | TABLE 12, | | | |
| 99256 | 130, 165, | 65; 84; or 95 | UTEC 1003-514 | W7 | M/H VR8104M2505 | page 10 | | | |
| 00050 | 200, 250 | | | M4 | M/H VR8204M1000 | TABLE 13 | | | |
| 99253 | | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | W7 | M/H VR8104M2505 | page 10 | | | |
| | | | | M5 | M/H VR8440A2159 | TABLE 14, | | | |
| 99254 | 200, 250 | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | Q3 | M/H VR8304M2816 | page 10 | | | |
| | | 1 | JC G770NGC-4; JC G770NHC-1; | M5 | M/H VR8440A2159 | | | | |
| 99248 | 200, 250 | 65; 84; or 95 | UTEC 1003-514 | Q3 | M/H VR8304M2816 | TABLE 15, | | | |
| 202.0 | 300, 400 | 31 | None (Match-Lit) | K7 | M/H V800M7009 | page 10 | | | |
| | | | · · · · · · · · · · · · · · · · · · · | M6 | W/R 36C68-452 | TABLE 16, | | | |
| 99255 | 300, 400 | 66 or 94 | JC #G67BG-5; UTEC 1003-638A | 9A | W/R 36H32-441 | page 10 | | | |

Conversion Kits - Natural to Propane

TABLE 1 - Natural to Propane Conversion Kits

Conversion Kits - Natural to Propane (cont'd)

Natural to Propane Conversion Requirements

- Propane requires ignition controller with 100% lockout
- Propane on Sizes 130-400 requires burner air shutters

Propane units equipped with spark pilot **require** an ignition controller with 100% lockout. When converting Models F, FE, B, and BE equipped with spark pilot without 100% lockout (Safety Pilot Code 66 or 94) from natural to propane, the ignition controller must be changed. Where it is required, the conversion kit includes the ignition controller with 100% lockout.

Heater sizes 130-400 that are **equipped with optional stainless steel burners require** the addition of burner air shutters when converting from natural to propane gas.

Air shutters are NOT included in the conversion kit. If air shutters are required in your installation, order P/N listed in the table below.

| Heater Size | Air Shutter Assembly P/N |
|-------------|--------------------------|
| 130 | 98478 |
| 165 | 98479 |
| 200 | 98480 |
| 250 | 98481 |
| 300 | 98482 |
| 400 | 98483 |

To determine if your heater is equipped with stainless steel burners, check the replacement parts tag located on the inner panel (next to the fan or blower) on the rear of the heater. If the heater is equipped with stainless steel burners, the tag will read **"EQUIPPED WITH SS BURNERS"**.

Conversion Kit Components - Natural to Propane

TABLES 2-16 list the components included in each conversion kit as well as the heater(s) to which that kit applies. Kits that apply to various sizes of heaters include the quantity of orifices required for the largest size of heater. Excess burner orifices may not be returned for credit.

| TABLE 2 - Natural to Propane Conversion Kit, P/N 99243 | | | | | | |
|--|--------------------|--------------------------------------|--------------------|--------------------|--|--|
| Applies to Models F/FE/B/BE 25 | | | | | | |
| Equipped wit | h either of the | following pilot and value | ve combination | s | | |
| | Pilo | t | | Valve | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | |
| Martak | | News | K5 | M/H V8200M7003 | | |
| Match | 31 | None | 9B | M/H VR8200M7005 | | |
| Spark | 65; 84; | JC G770NGC-4; | M4 | M/H VR8204M1000 | | |
| w/100% Lockout | or 95 | JC G770NHC-1; UTEC 1003-514 | W7 | M/H VR8104M2505 | | |
| Componer | nts: | | | | | |
| Qty | P/N | Description | | | | |
| 1 | 98720 | Regulator Spring Kit, M/H 393691 | | | | |
| 2 | 95936 | Burner Orifice, #60 (sea level) | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | |
| 1 | 37752 | Propane Gas Disk | | | | |
| 1 | 64391 | Conversion Tape | | | | |

| TABLE 3 - Natural to Propane Conversion Kit, P/N 99249 Applies to Models F/FE/B/BE 25 | | | | | | | |
|--|--------------------|--|--------------------|--|--|--|--|
| | | | | | | | |
| Equipped wit | | following pilot and valu | e combination | | | | |
| | Pilo | | | Valve | | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | |
| Spark | 66 or 94 | J/C G67BG-5; | M4 | M/H VR8204M1000 | | | |
| эрагк | 00 01 94 | UTEC 1003-638A | W7 | M/H VR8104M2505 | | | |
| Componer | nts: | | | | | | |
| Qty | P/N | | Descriptio | on | | | |
| 1 | 98720 | Regulator Spring K | it, M/H 3936 | 91 | | | |
| 2 | 95936 | Burner Orifice, #60 | (sea level) | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | | |
| 1 | 257475 | Ignition Controller Assy including: | | | | | |
| 1 | 257010 | Ignition Control w/100% Lockout, UTEC 1003-514 | | | | | |
| 1 | 133108 | Black Wire Assy (I.C. "MV") | | | | | |
| 1 | 98215 | Brown Wire Assy (I.C. "MV/PV") | | | | | |
| 1 | 98214 | Blue Wire Assy (I.C. "PV") | | | | | |
| 1 | 257074 | Green Wire Assy (I.C. "GND BURNER") | | | | | |
| 1 | 98215 | Brown Wire Assy I.C. "24V GND") | | | | | |
| 1 | 173303 | Red Wire Assy (I.C. "24V") | | | | | |
| 1 | 257014 | Red Wire Assy | | | | | |
| 1 | 122655 | Yellow Wire Assy (I | .C. "TH") | The loose yellow wire is not used in this | | | |
| 1 | 173307 | Black Wire Assy (I. | C. "TH") | application. | | | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | | | |
| 2 | 96426 | Screws, #10LGM x 3/8" long (for attaching bracket) | | | | | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | | | |
| 1 | 37752 | Propane Gas Disk | | | | | |
| 1 | 64391 | Conversion Tape | | | | | |
| 1 | 257478 | Wiring Diagram Label | | | | | |
| TABI | E 4 - Natu | ural to Propane C | onversior | n Kit, P/N 99244 | | | |
| Applies t | o Models | F/FE/B/BE 50 | | | | | |
| Constant of sold | | following pilot and you | | | | | |

| Applies to Models F/FE/B/BE 50 | | | | | | | | |
|--------------------------------|--|--------------------------------------|--------------------|--------------------------------|----|-----------------|--|--|
| Equipped wit | Equipped with either of the following pilot and valve combinations | | | | | | | |
| | Pilot | | | Valve | | | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | | |
| Match | 31 | None | K5 | M/H V8200M7003 | | | | |
| Watch | 31 | None | 9B | M/H VR8200M7005 | | | | |
| Spark | | JC G770NGC-4; | M4 | M/H VR8204M1000 | | | | |
| w/100% Lockout | | or 95 | or 95 | JC G770NHC-1; UTEC 1003-514 | W7 | M/H VR8104M2505 | | |
| Componer | nts: | | | | | | | |
| Qty | P/N | | Descript | ion | | | | |
| 1 | 98720 | Regulator Spring | Kit, M/H 393 | 691 | | | | |
| 3 | 63003 | Burner Orifice, 1.2MM (sea level) | | | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | | | |
| 1 | 37752 | Propane Gas Disk | | | | | | |
| 1 | 64391 | Conversion Tape | | Conversion Tape | | | | |

Conversion Kit Components - Natural to Propane (cont'd)

| Applies | to Models | F/FE/B/BE 50 | | | | |
|------------|--------------------|---|--------------------|---|--|--|
| Equipped w | ith | | | | | |
| | Pilo | ot | | Valve | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No | | |
| Spark | 66 or 94 | J/C G67BG-5; UTEC 1003-638A | M4 W7 | M/H VR8204M1000 M/H VR8104M2505 | | |
| Compone | nts: | | | | | |
| Qty | P/N | | Description | | | |
| 1 | 98720 | Regulator Spring Kit, | M/H 39369 | 1 | | |
| 3 | 63003 | Burner Orifice, 1.2M | M (sea level |) | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | |
| 1 | 257475 | Ignition Controller Assy including: | | | | |
| 1 | 257010 | Ignition Control w/100% Lockout, UTEC 1003-514 | | | | |
| 1 | 133108 | Black Wire Assy (I.C. "MV") | | | | |
| 1 | 98215 | Brown Wire Assy (I.C. "MV/PV") | | | | |
| 1 | 98214 | Blue Wire Assy (I.C. "PV") | | | | |
| 1 | 257074 | Green Wire Assy | | | | |
| 1 | 98215 | Brown Wire Assy | | ND") | | |
| 1 | 173303 | Red Wire Assy (I. | | | | |
| 1 | 257014 | Red Wire Assy (I. | | | | |
| 1 | 122655 | Yellow Wire Assy (I.C | . "TH") | The loose yellow wire is not used in | | |
| 1 | 173307 | Black Wire Assy (I.C. "TH") wire is not used in this application. | | | | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | | |
| 2 | 96426 | Screws, #10LGM x 3/8" long (for attaching bracket) | | | | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | | |
| 1 | 37752 | Propane Gas Disk | | | | |
| 1 | 64391 | Conversion Tape | | | | |
| 1 | 257478 | Wiring Diagram Label | | | | |

| TABLE 6 - Natural to Propane Conversion Kit, P/N 99245 | | | | | | | |
|--|--------------------|--------------------------------------|--------------------|--------------------|--|--|--|
| Applies to Models F/FE/B/BE 75 | | | | | | | |
| Equipped w | ith either of the | o following pilot and val | ve combinatio | ns | | | |
| | Pilo | t | | Valve | | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | |
| | | News | K5 | M/H V8200M7003 | | | |
| Match | 31 | None | 9B | M/H VR8200M7005 | | | |
| Spark | 65; 84; | JC G770NGC-4; | M4 | M/H VR8204M1000 | | | |
| w/100% Lockout | or 95 | JC G770NHC-1; UTEC 1003-514 | W7 | M/H VR8104M2505 | | | |
| Compone | nts: | | | | | | |
| Qty | P/N | | Descripti | on | | | |
| 1 | 98720 | Regulator Spring Kit, M/H 393691 | | | | | |
| 4 | 64676 | Burner Orifice, 1.3MM (sea level) | | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | | |
| 1 | 37752 | Propane Gas Disk | | | | | |
| 1 | 64391 | Conversion Tape | | | | | |

| TAE | TABLE 7 - Natural to Propane Conversion Kit, P/N 99251 | | | | | | |
|------------|--|--|-----------------------------------|------------------------------------|--|--|--|
| Applies | Applies to Models F/FE/B/BE 75 | | | | | | |
| Equipped v | with | | | | | | |
| | Pile | ot | | Valve | | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | |
| Spark | 66 or 94 | J/C G67BG-5; UTEC 1003-638A | M4 W7 | M/H VR8204M1000 M/H VR8104M2505 | | | |
| Compon | ents: | | | | | | |
| Qty | P/N | | Descripti | on | | | |
| 1 | 98720 | Regulator Spring Ki | t, M/H 39369 | 91 | | | |
| 4 | 64676 | Burner Orifice, 1.3 | Burner Orifice, 1.3MM (sea level) | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | | |
| 1 | 257475 | Ignition Controller Assy including: | | | | | |
| 1 | 257010 | Ignition Control w/100% Lockout, UTEC 1003-514 | | | | | |
| 1 | 133108 | Black Wire Assy (I.C. "MV") | | | | | |
| 1 | 98215 | Brown Wire Assy (I.C. "MV/PV") | | | | | |
| 1 | 98214 | Blue Wire Assy (I.C. "PV") | | | | | |
| 1 | 257074 | Green Wire Assy (I.C. "GND BURNER") | | | | | |
| 1 | 98215 | Brown Wire Ass | y I.C. "24V G | GND") | | | |
| 1 | 173303 | Red Wire Assy (| (I.C. "24V") | | | | |
| 1 | 257014 | Red Wire Assy (| I.C."SENSE | ") | | | |
| 1 | 122655 | Yellow Wire Assy (I. | .C. "TH") | The loose yellow wire | | | |
| 1 | 173307 | Black Wire Assy (I.C. "TH") is not used in this application. | | | | | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | | | |
| 2 | 96426 | Screws, #10LGM x 3/8" long (for attaching bracket) | | | | | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | | | |
| 1 | 37752 | Propane Gas Disk | | | | | |
| 1 | 64391 | Conversion Tape | | | | | |
| 1 | 257478 | Wiring Diagram Lab | bel | | | | |

| | | tural to Propane (| | | | | |
|--|--|--|---|--|--|--|--|
| Applies | to Models | F/FE/B/BE 100 ar | iu 125 | | | | |
| | | following pilot and valve | | | | | |
| | Pi | lot | | Valve | | | |
| Туре | Serial No Code | . Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | |
| Match | 31 | None | K5 | M/H V8200M7003 | | | |
| | | | 9B | M/H VR8200M7005 | | | |
| Spark w/100% | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; | M4 | M/H VR8204M1000 | | | |
| Lockout | | UTEC 1003-514 | W7 | M/H VR8104M2505 | | | |
| Compon | ents: P/N | 1 | Description | | | | |
| Qty 1 | 98720 | Regulator Spring K | Descriptio | | | | |
| 6 | 11830 | Burner Orifice, #55 | | 551 | | | |
| 1 | 98695 | Pilot Orifice, J/C #9 | | ick) | | | |
| 1 | 37752 | Propane Gas Disk | | | | | |
| 1 | 64391 Conversion Tape | | | | | | |
| TABLE 9 - Natural to Propane Conversion Kit, P/N 99252 | | | | | | | |
| Applies to Models F/FE/B/BE 100 and 125 | | | | | | | |
| Equipped with | | | | | | | |
| | Pil | | | Valve | | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | | |
| One d | | J/C G67BG-5; | M4 | M/H VR8204M1000 | | | |
| Spark | 66 or 94 | UTEC 1003-638A | W7 | M/H VR8104M2505 | | | |
| Compon | ents: | | | | | | |
| Qty | P/N | | Descriptio | | | | |
| 1 | 98720 | Regulator Spring Kit, | | 1 | | | |
| 6 | 11830 98695 | Burner Orifice, #55 | | k) | | | |
| 1 | 257475 | Pilot Orifice, J/C #97 Ignition Controller As | | | | | |
| 1 | 257010 | - | | out, UTEC 1003-514 | | | |
| 1 | 133108 | Black Wire Assy | | | | | |
| 1 | 98215 | Brown Wire Assy | (I.C. "MV/P) | /") | | | |
| 1 | 98214 | Blue Wire Assy (| | | | | |
| 1 | 257074 | Green Wire Assy | | | | | |
| 1 | 98215 | Brown Wire Assy | | טע") | | | |
| 1 | 173303 257014 | Red Wire Assy (I Red Wire Assy (I | | | | | |
| 1 | 122655 | | | | | | |
| 1 | 173307 | Black Wire Assy (I.C | Yellow Wire Assy (I.C. "TH") The loose yellow wire is not used in this enplication | | | | |
| | | Ignition Controller Mounting Bracket | | | | | |
| 1 | 257012 | | | application. | | | |
| 1 2 | 257012 96426 | | ounting Brac | application. ket | | | |
| 2 4 | 96426 195638 | Ignition Controller M Screws, #10LGM x 3 Screws, #8 x 3/8" lor | ounting Brac /8" long (for | application. ket attaching bracket) | | | |
| 2 4 1 | 96426 195638 37752 | Ignition Controller M Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk | ounting Brac /8" long (for | application. ket attaching bracket) | | | |
| 2 4 1 1 | 96426 195638 37752 64391 | Ignition Controller M Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk Conversion Tape | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) | | | |
| 2 4 1 1 1 | 96426 195638 37752 64391 257478 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk Conversion Tape Wiring Diagram Labe | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) ing controller) | | | |
| 2 4 1 1 1 TAB | 96426 195638 37752 64391 257478 LE 10 - Na | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) ing controller) | | | |
| 2 4 1 1 1 TAB Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk Conversion Tape Wiring Diagram Labe | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) ing controller) | | | |
| 2 4 1 1 1 TAB | 96426 195638 37752 64391 257478 LE 10 - Na to Models | Ignition Controller Mr Screws, #10LGM x 3 Screws, #8 x 3/8° inO Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane (F/B 130 and 165 | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) ing controller) | | | |
| 2 4 1 1 1 TAB Applies Equipped w | 96426 195638 37752 64391 257478 LE 10 - Na to Models /ith | Ignition Controller Mr Screws, #10LGM x 3 Screws, #8 x 3/8° inO Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane (F/B 130 and 165 | bunting Brac /8" long (for ng (for attach | application. ket attaching bracket) ing controller) n Kit, P/N 131582 Valve | | | |
| 2 4 1 1 1 TAB Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models /ith | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe Wiring Diagram Labe F/B 130 and 165 | Serial No. Code | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Valve Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w | 96426 195638 37752 64391 257478 LE 10 - Na to Models //tth Pill Serial No. | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's | Serial No. Code K5 | application. ket attaching bracket) ing controller) h Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 | | | |
| 2 4 1 1 TAB Applies Equipped w Type Match | 96426 195638 37752 64391 257478 LE 10 - Na to Models //th Pil Serial No. Code 31 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. | Serial No. Code | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Valve Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w | 96426 195638 37752 64391 257478 LE 10 - Na to Models //th Pil Serial No. Code 31 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. | Serial No. Code K5 | Application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 | | | |
| 2 4 1 1 TAB Applies Equipped w Type Match Compon | 96426 195638 37752 64391 257478 LE 10 - Na to Models with Pil Serial No. Code 31 ents: | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. | bunting Brac /8" long (for gg (for attach conversior Serial No. Code K5 9B Descriptic | Application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Valve Manufacturer's No. M/H VR8200M7003 M/H VR8200M7005 | | | |
| 2 4 1 1 TAB Equipped w Type Match Compon Qty | 96426 195638 37752 64391 257478 LE 10 - Na to Models Vith Pil Serial No. Code 31 ents: P/N | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° inC Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1,65 | All Serial No. Code K5 9B Descriptic t, M/H 39366 | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 an attaching bracket) Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w Type Match Compon Qty 1 5 5 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models //th Pill Serial No. Code 31 ents: P/N 98720 96344 98695 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° IoF Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane 0 F/B 130 and 165 ot No. None Regulator Spring Ki Burner Orifice, J.C #9 | All Serial No. Code K5 9B Descriptic t, M/H 39366 | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 an attaching bracket) Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w Type Match Compon Qty 1 5 1 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pil Serial No. Code 31 ents: P/N 98720 96344 98695 37752 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° Ior Propane Gas Disk Wring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J/C #9 Propane Gas Disk | All Serial No. Code K5 9B Descriptic t, M/H 39366 | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 an attaching bracket) Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w Type Match Compon Qty 1 5 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models //th Pill Serial No. Code 31 ents: P/N 98720 96344 98695 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° IoF Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane 0 F/B 130 and 165 ot No. None Regulator Spring Ki Burner Orifice, J.C #9 | All Serial No. Code K5 9B Descriptic t, M/H 39366 | application. ket attaching bracket) ing controller) a Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 an attaching bracket) Manufacturer's No. | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compon Qty 1 5 1 1 1 1 1 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pil Serial No. Code 31 P/N 98720 96344 98695 37752 64391 BLE 11 - Na | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lok Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape | All Conversion Conversion Conversion Conversion Conversion Code Conversion Code Code Code Code Code Code Code Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 n 21 ck) | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 1 7 Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pil Serial No. Code 31 Serial No. Code 31 P/N 98720 98700 98700 97700 97700 97700 97700 97700 97700 97700 97700 97700 97 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.66 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape | All Conversion Conversion Conversion Conversion Conversion Code Conversion Code Code Code Code Code Code Code Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 n 21 ck) | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 1 7 Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models with Pili Serial No. Code 31 P/N 98720 98720 98695 37752 64391 3LE 11 - Na to Models with | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Wining Diagram Labe Wining Diagram Labe Wining Diagram Labe Tr/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.68 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 | All Conversion Conversion Conversion Conversion Conversion Code Conversion Code Code Code Code Code Code Code Code | Application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H V8200M7005 in 11 vel) ck) n Kit, P/N 99247 | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 1 7 Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models with Pil Serial No. Code 31 Serial No. Code Serial No. Code 31 Serial No. Code Serial No. Serial | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Wiring Diagram Labe Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.68 Pitot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39366 SMM (sea lev 733-410 (bla | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 m/H VR8200M7005 m/H VR820M7005 m/H VR820M7005 m/H VR820M7005 | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 1 7 Applies | 96426 195638 37752 64391 257478 LE 10 - Na to Models //////////////////////////////////// | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Wiring Diagram Labe Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.68 Pitot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 | All Conversion Conversion Conversion Conversion Conversion Code Conversion Code Code Code Code Code Code Code Code | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H VR8200M7005 m/H VR8200M7005 m/H VR820M7005 m/H VR820M7005 m/H VR820M7005 | | | |
| 2 4 1 1 1 TAB Applies Equipped w Match Compon Qty 1 5 1 1 1 1 1 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 5 5 6 4 9 5 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 7 8 7 7 8 7 7 8 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 8 8 8 9 8 8 8 8 | 96426 195638 37752 64391 257478 LE 10 - Na to Models with Pil Serial No. Code 31 Serial No. Code Serial No. Code 31 Serial No. Code Serial No. Serial | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° IoC Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None None Regulator Spring Ki Burner Orifice, 1.68 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 Iot | Serial No. Code K5 9B Descriptic t, M/H 39365 SiMM (sea lev 733-410 (bla Conversio , 250 | Application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H V8200M7005 m H Ck) N N Valve Valve | | | |
| 2 4 1 1 1 TAB Applies Equipped w Match Compon Qty 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models with Pil Serial No. Code 31 P/N 98720 96344 98695 37752 64391 BLE 11 - Na to Models with P Serial Xo. Serial No. Code Serial No. Serial No. Code Serial No. Code Serial No. Serial No. Code Serial No. Serial No | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane 0 F/B 130 and 165 ot None Regulator Spring Ki Burner Otifice, 1.64 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 lot Manufacturer's No. | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Conversio , 250 Serial Nc. Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve M/H V8200M7003 M/H V8200M7005 m Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl | | | |
| 2 4 1 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match Type Match AND | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pil Serial No. Code 31 ents: P/N 98720 96344 98695 37752 64391 BLE 11 - Na to Models with P Serial No. Code 31 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane 0 F/B 130 and 165 ot None Regulator Spring Ki Burner Otifice, 1.64 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 lot Manufacturer's No. | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Conversio , 250 Serial Nc. Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve M/H V8200M7003 M/H V8200M7005 m Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl | | | |
| 2 4 1 1 1 TAB Applies Equipped w Type Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match AnD Applies t | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pili Serial No. Code 31 ents: P/N 98720 96644 98695 37752 64391 BLE 11 - Na to Models with P Serial No. Code 31 Serial No. Code 33 Serial No. Code 33 Serial No. Code 33 Serial No. Serial No. Serial No. Code 33 Serial No. Serial No. Serial No. Serial No. Code 33 Serial No. S | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 Iot None | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Conversio , 250 Serial Nc. Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve M/H V8200M7003 M/H V8200M7005 m Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl | | | |
| 2 4 1 1 1 TAB Applies Equipped w Type Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match AnD Applies t | 96426 195638 37752 64391 257478 LE 10 - Na to Models inth Pili Serial No. Code 31 ents: P/N 98720 96344 98695 37752 64391 SLE 11 - Na to Models with P Serial No. Code 31 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" for Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 Iot None | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Conversio , 250 Serial Nc. Code | application. ket attaching bracket) ing controller) A Kit, P/N 131582 Valve Valve M/H V8200M7003 M/H V8200M7005 m Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl | | | |
| 2 4 1 1 1 TAB Applies Equipped w Type Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match AND | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pil Serial No. Code 31 ents: P/N 98720 96344 98695 37752 64391 BLE 11 - Na to Models with P Serial No. Code 31 Stanta No. Code 31 Co | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape Itural to Propane - F/B 130, 165, 200 Iot Manufacturer's No. None FE/B/BE 300, 400 | A Serial No. Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea leven Source Serial No. Code K6 Serial No. Code K6 Serial No. Code Serial No. Code Serial No. Code Serial No. Code | Application. ket application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Valve Manufacturer's No. M/H V8200M7003 M/H V8200M7005 m M/H V8200M7005 m N/H V8200M7005 m N/H V8200M7005 m Valve Valve Valve Valve Valve Valve Valve Valve Valve Valve | | | |
| 2 4 1 1 TAB Applies Equipped w Match Compon Qty 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 96426 195638 37752 64391 257478 LE 10 - Na to Models //th Pil Serial No. Code 31 ents: P/N 98720 96344 98695 37752 64391 SLE 11 - Ná to Models With P Serial No. Code 31 Serial No. Serial | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8" lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 Iot Manufacturer's No. None FE/B/BE 300, 400 Iot | A serial No. Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Soft Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Serial No. Code Serial No. Code Serial No. Code Serial No. Code | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7005 m H Valve Valve Valve Valve Valve Valve Valve Valve Valve Valve Valve | | | |
| 2 4 1 1 1 TAB Applies Equipped w Type Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match Applies Equipped | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pill Serial No. Code 31 ents: P/N 98720 98635 37752 64391 3LE 11 - Na to Models with P Serial No. Code 31 co Models with P Serial No. Code 31 co Models F d with P Serial No. Code 31 co Models F d with P Serial No. Code 65; 84; | Ignition Controller Mi Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.64 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape Itural to Propane - F/B 130, 165, 200 Iot Manufacturer's No. None FE/B/BE 300, 400 | A serial No. Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Soft Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Serial No. Code Serial No. Code Serial No. Code Serial No. Code Serial No. Code M6 | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7005 M/H VR8200M705 M/H VR820M705 M/H VR820 M/H VR820M705 M/H VR8200 M/H VR820 | | | |
| 2 4 1 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 1 1 TAE Applies Equipped Type Match Applies Equipped Type Type | 96426 195638 37752 64391 257478 LE 10 - Na to Models ith Pill Serial No. Code 31 ents: P/N 98720 96325 64391 31 96626 31752 64391 3LE 11 - Na to Models with P Serial No. Code 31 serial No. Code 65; 84; or 95 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #3 x3/8° InC Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane O F/B 130 and 165 ot No. None Regulator Spring Ki Burner Orifice, 1.62 Pilot Orifice, J/C #9 Propane Gas Disk Conversion Tape F/B 130, 165, 200 F/B 130, 165, 200 Inct Manufacturer's No. F/B/BE 300, 400 Iot JC G770NGC-4; | Serial No. Conversion Based States Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Soft Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lev Serial No. Code Serial No. Serial No. Code Serial No. Code Serial No. Code Serial No. Code Serial No. Code Serial No. Code Serial No. Serial No. S | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Manufacturer's No. M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7005 m H Valve Valve Valve Valve Valve Valve Valve Valve Valve Valve Valve | | | |
| 2 4 1 1 1 Applies Equipped w Type Match Compon Qty 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 96426 195638 37752 64391 257478 257478 LE 10 - Na to Models with Pill Serial No. Code 31 ents: P/N 98695 37752 64391 SLE 11 - Na to Models with P Serial No. Code 31 to Models with P Serial No. Code 31 to Models F d with P Serial No. Code Gels R4; or 95 ents: | Ignition Controller Mi Screws, #10LGM x 3 Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.68 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 lot F/B 130, 165, 200 lot F/B 130, 165, 200 lot JC G770NGC-4, JC G770NGC-4, JC G770NGC-4, | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39366 Some result Conversion 250 Conversion 250 Conversion Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code | application. ket attaching bracket) ing controller) ing controller) ing controller) ing controller) ing controller) ing controller Valve Valve Manufacturer's No. M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H VR8200M7003 M/H V8200M7003 M/H V8200M7005 M/H V820M705 M/H V820M705 | | | |
| 2 4 1 1 1 TAB Applies Equipped w Match Compone Qty 1 5 1 1 1 1 1 1 TAE Applies Equipped Type Match Applies Equipped Type Type | 96426 195638 37752 64391 257478 LE 10 - Nator 257478 LE 10 - Nator official No. Code 31 ents: P/N 98720 96344 98695 37752 64391 LE 10 - Nator vo Models Serial No. Code 31 Serial No. Code Serial No. Code 65; 84; or 95 ents: P/N | Ignition Controller Mi Screws, #10LGM x 3 Screws, #10LGM x 3 Propane Gas Disk Conversion Tape International Conversion Tape Regulator Spring Ki Burner Orifice, 1/C #9 Propane Gas Disk Conversion Tape F/B 130, 165, 200 F/B 130, 165, 200 Iot Manufacturer's No. None F/B/BE 300, 400 Iot Manufacturer's No. | All Conversion Serial No. Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 SMM (sea lev 733-410 (bla Conversion , 250 Serial Nc. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code Serial No. Serial No. Ser | application. ket application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Valve Manufacturer's No. M/H V8200M7003 M/H V8200M7005 m Valve | | | |
| 2 4 1 1 1 TAB Applies Equipped w Type Match Compon Qly 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 96426 195638 37752 64391 257478 257478 LE 10 - Na to Models with Pill Serial No. Code 31 ents: P/N 98695 37752 64391 SLE 11 - Na to Models with P Serial No. Code 31 to Models with P Serial No. Code 31 to Models F d with P Serial No. Code Gels R4; or 95 ents: | Ignition Controller Mi Screws, #10LGM x 3 Screws, #10LGM x 3 Screws, #8 x 3/8° lor Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot None Regulator Spring Ki Burner Orifice, 1.68 Pilot Orifice, J.C #9 Propane Gas Disk Conversion Tape tural to Propane F/B 130, 165, 200 lot F/B 130, 165, 200 lot F/B 130, 165, 200 lot JC G770NGC-4, JC G770NGC-4, JC G770NGC-4, | A serial No. Conversion B Serial No. Code K5 9B Descriptic t, M/H 39365 MM (sea lee Some Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 | application. ket attaching bracket) ing controller) Kit, P/N 131582 Valve Valve MiH V8200M7003 M/H V8200M7003 M/H V8200M7005 m Attaching bracket M/H V8200M7005 m Attaching bracket Valve Va | | | |
| 2 4 1 1 1 Applies Equipped w Type Match Compon Qty 1 5 1 1 1 1 1 1 1 1 1 1 1 1 TAE Applies Equipped Match Compon Compon Qty Type Match Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon Compon | 96426 195638 37752 64391 257478 LE 10 - Nator 257478 LE 10 - Nator 0 31 Pill Serial No. Code 31 PR0 98720 96344 98695 37752 64391 SLE 11 - Nator to Models with P Serial No. Code 31 Serial No. Code 31 Serial No. Code 31 Serial No. Code 31 Serial No. Code Go Models F. d with P Serial No. Code Go Field No. Serial No. Code Go Serial No. | Ignition Controller Mi Screws, #10LGM x 3 Screws, #10LGM x 3 Screws, #8 x 3/8° inC Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, J/C #9 Propane Gas Disk Conversion Tape F/B 130, 165, 200 F/B 130, 165, 200 F/B/BE 300, 400 F/B/B/BE 300, 400 F/B/B/BE 300, 400 F/B/B/BE 300, 400 F/B/B/BE 300, 400 F/B/B/BE 300, 400 F/B 130, 165, 200 F/B/B/BE 300, 400 F/B/B/BE 300, 400 F/B/B/B/B/B/B/B/B/B/B/B/B/B/B/B/B/B/B/B | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 Some serial No. Code K5 Conversion Conversion Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code Serial No. Code Ser | application. ket attaching bracket) ing controller) I Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H V8200M703 M/H V800 M/H V800 | | | |
| 2 4 1 1 1 1 TAB Applies Equipped w Type Match Compone Qty 1 5 1 1 1 1 TAE Applies Equipped Type Match AND Applies Equipped Type Spark w/100% Lockout Compone Qty 1 1 2 | 96426 195638 37752 64391 257478 257478 LE 10 - Na to Models ith Pill Serial No. Code 31 ents: P/N 98720 96343 98695 37752 64391 3LE 11 - Na to Models with P Serial No. Code 31 serial No. Code 65; 84; or 95 ents: P/N 82524 96344 | Ignition Controller Mi Screws, #10LGM x 3 Screws, #3 x3/8" InC Propane Gas Disk Conversion Tape Wiring Diagram Labe tural to Propane C F/B 130 and 165 ot Manufacturer's No. None Regulator Spring Ki Burner Orifice, 1.68 Priot Annufacturer's No. Propane Gas Disk Conversion Tape Itural to Propane F/B 130, 165, 200 F/B 130, 165, 200 Iot Manufacturer's No. FE/B/BE 300, 400 Iot Manufacturer's No. Scrowersion Tape Itural to Propane F/B 130, 165, 200 Iot Manufacturer's No. Scrowersion Tape Itural to Propane F/B 130, 165, 200 Iot Conversion Tape Itural to Propane F/B 130, 165, 200 Iot Radia Conversion Tape Iot Radia C | All Conversion Serial No. Code K5 9B Descriptic t, M/H 39365 Some serial No. Code K5 Conversion Conversion Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code K6 Serial No. Code Serial No. Code Ser | application. ket attaching bracket) ing controller) I Kit, P/N 131582 Valve Manufacturer's No. M/H V8200M7003 M/H V8200M703 M/H V800 M/H V800 | | | |

Conversion Kit Components - Natural to Propane (cont'd)

| TABLE 12 - Natural to Propane Conversion Kit, P/N 99256 | | | | | | | |
|---|--|--------------------------------------|--------------|-----------------|--|--|--|
| Applies | Applies to Models F/FE/B/BE 130, 165, 200, 250 | | | | | | |
| Equipped v | vith either of th | e following pilot and valve | combinations | | | | |
| | Pil | ot | | Valve | | | |
| Туре | Serial No. Code | | | | | | |
| Spark w/100% | 65; 84; or 95 | G770NHC-1; | | M/H VR8204M1000 | | | |
| Lockout | | | W7 | M/H VR8104M2505 | | | |
| Compor | nents: | | | | | | |
| Qty | P/N | | Description | ı | | | |
| 1 | 98720 | Regulator Spring Kit | , M/H #3936 | 91 | | | |
| 8 | 96344 | Burner Orifice, #1.65MM (sea level) | | | | | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | | | |
| 1 | 37752 | Propane Gas Disk | | | | | |
| 1 | 64391 | Conversion Tape | | | | | |

| TA | BLE 13 - N | atural to Propane | Conversio | n Kit, P/N 99253 | |
|---------------------|--------------------|--|----------------------|-----------------------|--|
| Applies | to Models | F/FE/B/BE 130, 16 | 35, 200, 25 0 |) | |
| Equippe | ed with eithe | r of the following pi | lot and valv | e combinations | |
| | Pil | ot | | Valve | |
| Туре | Serial No. Code | Manufacturer's Serial No. No. Code Manufacture | | Manufacturer's No. | |
| Spark | 66 or 94 | J/C G67BG-5; | M4 | M/H VR8204M1000 | |
| opun | 00 01 04 | UTEC 1003-638A | W7 | M/H VR8104M2505 | |
| Compo | nents: | | | | |
| Qty P/N Description | | | | | |
| 1 | 98720 | Regulator Spring Kit | t, M/H 39369 | 1 | |
| 8 | 96344 | Burner Orifice, #1.6 | 5MM (sea le | evel) | |
| 1 | 98695 | Pilot Orifice, J/C #9733-410 (black) | | | |
| 1 | 257475 | Ignition Controller Assy including: | | | |
| 1 | 257010 | Ignition Control v | w/100% Lock | out, UTEC 1003-514 | |
| 1 | 133108 | Black Wire Assy | (I.C. "MV") | | |
| 1 | 98215 | Brown Wire Assy | y (I.C. "MV/P | V") | |
| 1 | 98214 | Blue Wire Assy (| I.C. "PV") | | |
| 1 | 257074 | Green Wire Assy | / (I.C. "GND | BURNER") | |
| 1 | 98215 | Brown Wire Assy | y I.C. "24V G | ND") | |
| 1 | 173303 | Red Wire Assy (| I.C. "24V") | | |
| 1 | 257014 | Red Wire Assy (| I.C."SENSE" |) | |
| 1 | 122655 | Yellow Wire Assy (I. | C. "TH") | The loose yellow wire | |
| 1 | 173307 | Black Wire Assy (I.C. "TH") is not used in this application. | | | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | |
| 2 | 96426 | Screws, #10LGM x 3 | 3/8" long (foi | attaching bracket) | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | |
| 1 | 37752 | Propane Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |
| 1 | 257478 | Wiring Diagram Lab | el | | |

| TABLE 14 - Natural to Propane Conversion Kit, P/N 99 | 254 |
|--|-----|
| Applies to Models F/FE/B/BE 200, 250 | |

| | | IS F/FE/B/BE 200, | 200 | | |
|----------|--------------------|--|-------------------------------------|-----------------------|--|
| Equipped | | lot | | Valve | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code Manufacturer's N | | |
| o | | J/C G67BG-5; | M5 | M/H VR8440A2159 | |
| Spark | 66 or 94 | UTEC 1003-638A | Q3 | M/H VR8304M2816 | |
| Compo | nents: | | | | |
| Qty | P/N | | Descriptio | n | |
| 1 | 51749 | Regulator Spring Kit | , M/H 391937 | 7 | |
| 8 | 96344 | Burner Orifice, #1.6 | 5MM (sea lev | vel) | |
| 1 | 98695 | Pilot Orifice, J/C #97 | 733-410 (blac | k) | |
| 1 | 257475 | Ignition Controller Assy including: | | | |
| 1 | 257010 | Ignition Control v | w/100% Lock | out, UTEC 1003-514 | |
| 1 | 133108 | Black Wire Assy | (I.C. "MV") | | |
| 1 | 98215 | Brown Wire Assy | y (I.C. "MV/P\ | /") | |
| 1 | 98214 | Blue Wire Assy (| I.C. "PV") | | |
| 1 | 257074 | Green Wire Assy | / (I.C. "GND E | BURNER") | |
| 1 | 98215 | Brown Wire Assy | y I.C. "24V GI | ND") | |
| 1 | 173303 | Red Wire Assy (| I.C. "24V") | | |
| 1 | 257014 | Red Wire Assy (| I.C."SENSE") | | |
| 1 | 122655 | Yellow Wire Assy (I. | C. "TH") | The loose yellow wire | |
| 1 | 173307 | Black Wire Assy (I.C. "TH") is not used in this application. | | | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | |
| 2 | 96426 | Screws, #10LGM x 3/8" long (for attaching bracket) | | | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | |
| 1 | 37752 | Propane Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |
| 1 | 257478 | Wiring Diagram Lab | el | | |

| TABI | TABLE 15 - Natural to Propane Conversion Kit, P/N 99248 | | | | | |
|-------------------|--|--------------------------------|--------------------|--------------------|--|--|
| Applies t | Applies to Models F/B 300, 400 | | | | | |
| Equipped w | Equipped with either of the following pilot and valve combinations | | | | | |
| | Pilo | ot | | Valve | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | |
| Match | 31 | None | K7 | M/H V800M7009 | | |
| AND | AND | | | | | |
| Applies to | Models F/F | FE/B/BE 200, 250 | | | | |
| Equipped | with | | | | | |
| | Pilo | ot | | Valve | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | | |
| Spark | 65: 84: | JC G770NGC-4; | M5 | M/H VR8440A2159 | | |
| w/100% Lockout | or 95 | JC G770NHC-1; UTEC 1003-514 | Q3 | M/H VR8304M2816 | | |
| Compone | nts: | | | | | |
| Qty | P/N | | Description | 1 | | |
| 1 | 51749 | Regulator Spring Kit | , M/H 39193 | 7 | | |
| 12 | 96344 | Burner Orifice, 1.65 | MM (sea lev | rel) | | |
| 1 | 98695 | Pilot Orifice, J/C #97 | 33-410 (blac | :k) | | |
| 1 | 37752 | Propane Gas Disk | | | | |
| 1 | 64391 | Conversion Tape | | | | |

| Applies | to Models | F/FE/B/BE 300, 400 | | | |
|---------|--------------------|---|--------------------|--|--|
| Equippe | ed with | | | | |
| Pilot | | | | Valve | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | |
| Spark | 66 or 94 | J/C G67BG-5; | M6 | W/R 36C68-452 | |
| opurk | 00 01 34 | UTEC 1003-638A | 9A | W/R 36 H32-441 | |
| Compone | ents: | | | | |
| Qty | P/N | | Descriptio | n | |
| 1 | 82524 | Regulator Spring Kit, W | /R *92-0659 | | |
| 12 | 96344 | Burner Orifice, 1.65MM | 1 (sea level) | | |
| 1 | 98695 | Pilot Orifice, J/C #9733 | 410 (black) | | |
| 1 | 257475 | Ignition Controller Assy | including: | | |
| 1 | 257010 | Ignition Control w/10 | 00% Lockout | , UTEC 1003-514 | |
| 1 | 133108 | Black Wire Assy (I.C | C. "MV") | | |
| 1 | 98215 | Brown Wire Assy (I. | C. "MV/PV") | | |
| 1 | 98214 | Blue Wire Assy (I.C | . "PV") | | |
| 1 | 257074 | Green Wire Assy (I. | C. "GND BUF | RNER") | |
| 1 | 98215 | Brown Wire Assy I.0 | . "24V GND' | ') | |
| 1 | 173303 | Red Wire Assy (I.C. | "24V") | | |
| 1 | 257014 | Red Wire Assy (I.C. | "SENSE") | | |
| 1 | 122655 | Yellow Wire Assy (I.C. " | TH") | The loose yellow wire is not used in this | |
| 1 | 173307 | Black Wire Assy (I.C. "7 | "H") | application. | |
| 1 | 257012 | Ignition Controller Mounting Bracket | | | |
| 2 | 96426 | Screws, #10LGM x 3/8' | long (for atta | aching bracket) | |
| 4 | 195638 | Screws, #8 x 3/8" long (for attaching controller) | | | |
| 1 | 37752 | Propane Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |
| 1 | 257478 | Wiring Diagram Label | | | |

TABLE 16 - Natural to Propane Conversion Kit, P/N 99255

TABLE 17 -Conversion Kits - Propane to Natural

| | Models F, | P | Coo kit | | | |
|--------------------|--------------|--------------------------|--|--------------------------|--------------------|---------------------------|
| Conversion B FF BF | | Match-Lit or Spark Pilot | | Single | Stage Gas Valve | See kit components |
| Kit P/N | Kit P/N Size | | Ignition Control | Serial No. Valve Code | Valve Manufacturer | listed in: |
| | | 31 | None (Match-Lit) | K8 | M/H V8200M7011 | |
| 99257 25 | 31 | None (Match-Lit) | 1C | M/H VR8200M7013 | TABLE 18, | |
| 55251 | 25 | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | page 11 |
| | | 31 | None (Match-Lit) | K8 | M/H V8200M7011 | |
| 99258 | 50 | 31 | None (Match-Lit) | 1C | M/H VR8200M7013 | TABLE 19, |
| 00200 | | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | page 11 |
| | | 31 | None (Match-Lit) | K8 | M/H V8200M7011 | |
| 99259 | 75 | 51 | None (Match-Lit) | 1C | M/H VR8200M7013 | TABLE 20, |
| | /5 | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | page 11 |
| | | 21 | 31 None (Match-Lit) | K8 | M/H V8200M7011 | TABLE 21, |
| 99260 | 100, 125 | 100, 125 | | 1C | M/H VR8200M7013 | |
| 00200 | | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | page 11 |
| | | 31 | None (Match-Lit) | K8 | M/H V8200M7011 | |
| 99261 | 130, 165 | 51 | None (Match-Lit) | 1C | M/H VR8200M7013 | TABLE 22 , |
| 00201 | , | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | page 12 |
| 99262 | | 31 | None (Match-Lit) | K8 | M/H V8200M7011 | TABLE 23, |
| 55202 | 200 | 51 | | 1C | M/H VR8200M7013 | page 12 |
| 99263 | | 65; 84; or 95 | JC G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | TABLE 24 , page 11 |
| 99264 | 250, 300 | 31 | None (Match-Lit) | К9 | M/H V800M7017 | TABLE 25, page 12 |
| 00266 | 200, 300 | 65; 84; | JC G770NGC-4; JC G770NHC-1; | M8 | W/R 36C68-325 | TABLE 26, |
| 99200 | 99266 | | UTEC 1003-514 | 1B | W/R 36H32-442 | page 12 |
| 99265 | 400 | 31 | None (Match-Lit) | К9 | M/H V800M7017 | TABLE 27 , page 12 |
| 00267 | 400 | 65; 84; | JC G770NGC-4; JC G770NHC-1; | M8 | W/R 36C68-325 | TABLE 28 , |
| 99267 | | or 95 | UTEC 1003-514 | 1B | W/R 36H32-442 | page 12 |

Conversion Kit Components - Propane to Natural

TABLES 18-28 list the components included in each conversion kit as well as the heater(s) to which that kit applies. Kits that apply to various sizes of heaters include the quantity of orifices required for the largest size of heater. Excess burner orifices may not be returned for credit.

| TAE | BLE 18 - Pro | opane to Natural C | conversion | Kit, P/N 99257 | |
|----------------------------|--------------------|--|-------------------------------------|-----------------|--|
| Applies | to Models | F/FE/B/BE 25 | | | |
| Equipped w | rith any of the fo | blowing pilot and valve c | ombinations | | |
| | Pilo | ot | | Valve | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code Manufacturer's N | | |
| Match | 31 | None | K8 | M/H V8200M7011 | |
| Match | 51 | None | 10 | M/H VR8200M7013 | |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H V8204M1018 | |
| Compone | nts: | | | | |
| Qty | P/N | | Description | | |
| 1 | 98721 | Spring Regulator Kit | , M/H #39458 | 8 | |
| 2 | 39650 | Burner Orifice, #51 | (sea level) | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |
| | | | | | |

| TAE | 3LE 20 - P | ropane to Natural (| Conversio | n Kit, P/N 99259 |
|----------------------------|-----------------------|--|-----------------------|------------------|
| Applies t | o Models | F/FE/B/BE 75 | | |
| Equipped wit | th any of the f | ollowing pilot and valve co | mbinations | |
| | Pi | ot | | Valve |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's |
| Match | 31 | None | K8 | M/H V8200M70 |
| Match | 31 | None | 1C | M/H VR8200M7 |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | М7 | M/H VR8204M1 |
| Componer | nts: | | | |
| Qty | P/N | | Descriptio | n |
| 1 | 98721 | Regulator Spring Kit, | M/H #3945 | 88 |
| 4 | 38678 | Burner Orifice, #45 (sea level) | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | |
| 1 | 1401 | Natural Gas Disk | | |
| 1 | 64391 | Conversion Tape | | |

| TA | TABLE 19 - Propane to Natural Conversion Kit, P/N 99258 | | | | |
|----------------------------|---|--|--------------------|--------------------|--|
| Applies | Applies to Models F/FE/B/BE 50 | | | | |
| Equipped w | ith any of the fo | llowing pilot and valve con | nbinations | | |
| | Pile | ot | | Valve | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | |
| Match | 31 | News | K8 | M/H V8200M7011 | |
| Match | 31 | None | 1C | M/H VR8200M7013 | |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 M/H VR8204M101 | | |
| Compone | nts: | | | | |
| Qty | P/N | | Description | | |
| 1 | 98721 | Regulator Spring Kit, M/H #394588 | | | |
| 3 | 84853 | Burner Orifice, #47 (sea level) | | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |

| TAB | LE 21 - Pro | opane to Natural C | onversion | Kit, P/N 99260 | |
|----------------------------|--------------------|--|--------------------------------------|-----------------|--|
| Applies t | o Models | F/FE/B/BE 100 and | 125 | | |
| Equipped wi | th any of the fo | blowing pilot and valve co | mbinations | | |
| | Pil | ot | | Valve | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code Manufacturer's No | | |
| | 31 | None | K8 | M/H V8200M7011 | |
| Match | | | 1C | M/H VR8200M7013 | |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | М7 | M/H VR8204M1018 | |
| Compone | ents: | | | | |
| Qty | P/N | | Descriptior | ı | |
| 1 | 98721 | Regulator Spring K | iit, M/H 394 | 588 | |
| 6 | 11833 | Burner Orifice, #44 | 4 (sea level |) | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |

Conversion Kit Components - Propane to Natural (cont'd)

| | | opane to Natural Co /FE/B/BE 130, 165 | | |
|----------------------------|--------------------|--|---------------------------------------|-----------------|
| Equipped wi | th any of the fo | lowing pilot and valve com | binations | |
| | Pil | ot | | Valve |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code Manufacturer's No. | |
| Match | 31 | None | K8 | M/H V8200M7011 |
| | | | 1C | M/H VR8200M7013 |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | М7 | M/H VR8204M1018 |
| Compone | nts: | • | | • |
| Qty | P/N | Description | | |
| 1 | 98721 | Regulator Spring Kit, M/H #394588 | | |
| 5 | 11831 | Burner Orifice, #35 (sea level) | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | |
| 1 | 1401 | Natural Gas Disk | | |
| 1 | 64391 | Conversion Tape | | |
| | | | | |
| TAB | LE 23 - Pro | opane to Natural C | onversion | Kit, P/N 99262 |

J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 Spark w/100% lockout 65; 84 or 95 M8 W/R #36C68-325 Components: Description Qty P/N 82525 1 Regulator spring Kit, W/R #92-0656 9 11831 Burner Orifice, #35 (sea level) 1 103034 Pilot Orifice, J/C #9731-715 (brass) 1401 Natural Gas Disk 1 1 64391 Conversion Tape TABLE 27 - Propane to Natural Conversion Kit, P/N 99265

Applies to Models F/FE/B/BE 250, 300

Pilot

Serial No Code

Equipped with

Туре

Applies to Models F/B 400 (This size model requires a valve change when converting from propane to natural.) Equipped with

TABLE 26 - Propane to Natural Conversion Kit, P/N 99266

Manufacturer's No

Valve

Manufacturer's No.

Serial No. Code

| Pilot | | | Valve | | |
|-------------|--------------------|--------------------------------------|--------------------|--------------------|--|
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | |
| Match | 31 | None | К9 | M/H V800M7017 | |
| Components: | | | | | |
| Qty | P/N | Description | | | |
| 1 | 96301 | Valve, M/H #V800M7009 | | | |
| 12 | 11831 | Burner Orifice, #35 (sea level) | | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |

TABLE 28 - Propane to Natural Conversion Kit. P/N 99267 Applies to Models F/FE/B/BE 400 (This size model requires a valve change when converting from propane to natural.) Equipped with Pilot Valve Serial No. Serial No. Туре Manufacturer's No. Manufacturer's No. Code Code J/C G770-NGC-4; JC G770NHC-1; M8 W/R #36C68-325 Spark w/100% 65; 84; or 95 lockout UTEC 1003-514 1B W/R #36H32-442 Components: Qty P/N Description Replacement Valve Kit including P/N 221525 1 222037 Valve, W/R #36H32-441; Compression Nut, P/N 97572; and Instruction Sheet, P/N 222038 12 11831 Burner Orifice, #35 (sea level) 1 103034 Pilot Orifice, J/C #9731-715 (brass) 1401 1 Natural Gas Disk 64391

Conversion Tape

1

| TA | BLE 24 - F | ropane to Natural C | onversior | Kit, P/N 99263 | |
|----------------------------|-----------------------|--|-----------------------|----------------------------------|--|
| Applies | | F/B/FE/BE 200 (This converting from pro | | uires a valve change atural.) | |
| Equipped wi | th | | | | |
| Pilot | | | Valve | | |
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | |
| Spark w/100% lockout | 65; 84; or 95 | J/C G770NGC-4; JC G770NHC-1; UTEC 1003-514 | M7 | M/H VR8204M1018 | |
| Components: | | | | | |
| Qty | P/N | Description | | | |
| 1 | 121599 | Valve, M/H #VR8304M2816 | | | |
| 6 | 11831 | Burner Orifice, #35 (sea level) | | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |

TABLE 25 - Propane to Natural Conversion Kit, P/N 99264 Applies to Models F/B 250, 300

| Pilot | | | Valve | | |
|-------------|--------------------|--------------------------------------|--------------------|--------------------|--|
| Туре | Serial No. Code | Manufacturer's No. | Serial No. Code | Manufacturer's No. | |
| Match | 31 | None | K9 | M/H V800M7017 | |
| Components: | | | | | |
| Qty | P/N | Description | | | |
| 1 | 90204 | Regulator Spring Kit, M/H 391936 | | | |
| 9 | 11831 | Burner Orifice, #35 (sea level) | | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | |
| 1 | 1401 | Natural Gas Disk | | | |
| 1 | 64391 | Conversion Tape | | | |

www.RezSpec.com

800-695-1901

©2010 Thomas & Betts Corporation, All rights reserved. Trademark Notes: Reznor® is registered in the United States and other countries. All other trademarks are the property of their respective owners. 9/10 Form-CP-F/B-GC (Version A.1)



Form CP-F/B-GC, Page 12

Manufacturer's No.

Pilot

64391 Conversion Tape

erial No

Code

Туре

1

Applies to Models F/B 200 (This size requires a valve change when converting from propane to natural.) Equipped with

Valve

Manufacturer's No

Serial No.

Code

| Match | 31 | None | K8 | M/H V8200M7011 | | |
|-------------|--------|--------------------------------------|----|-----------------|--|--|
| | | | 1C | M/H VR8200M7013 | | |
| Components: | | | | | | |
| Qty | P/N | Description | | | | |
| 1 | 96300 | Valve, W/R #36C03-211 | | | | |
| 6 | 11831 | Burner Orifice, #35 (sea level) | | | | |
| 1 | 103034 | Pilot Orifice, J/C #9731-715 (brass) | | | | |
| 1 | 1401 | Natural Gas Disk | | | | |
| | | | | | | |