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

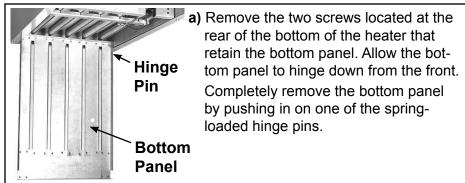


FIGURE 1 - Heater with Bottom Panel Hinged Down

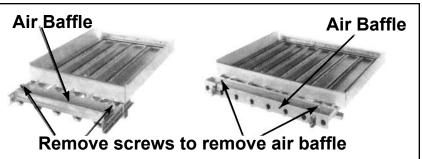
Gas Conversion Instructions -Models F, FE, B, BE (cont'd)

- **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.)

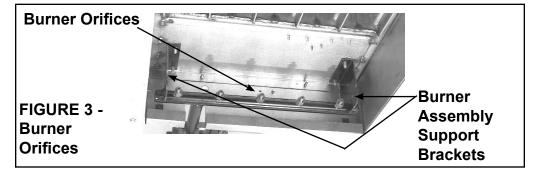


FIGURE 2 - Burner Rack with Factory-Installed Air Baffles

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)

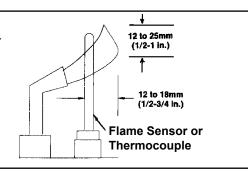
If your conversion requires an ignition controller with 100% lockout, the ignition controller with new wires and a new wiring diagram are included in the conversion kit.

- 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			
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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			

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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				