

Ignition Conversion Kit Instructions Apples to: Models F and B

Ignition Conversion Kits to Convert Models F and B with Standing Pilot to Spark-Ignited, Intermittent Safety Pilot System With or Without Lockout

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

Description/ Application	The ignition conversi with standing pilot	on kits in thi and single s	s form are stage gas	e for Model F and Mode s valve. Before beginn	el B unit hea ing convers	aters equip sion, deterr	ped nine
IMPORTANT	without lockout are n	ot available	with prop	ane gas; propane gas	requires 10	00% locko	ut.
NOTE: These	IGNITION (CONVERSIO	N KIT SEL	ECTION CHART for Mod	dels F and B		
conversion kits. ignition	Kits to convert from s ignited, intermittent (without	tanding pilot recycling safe lockout)	to spark- ety pilot	Kits to convert from spark-ignited, in with 1009	n standing p termittent sat ⁄⁄6 lockout	ilot to fety	
conversion only.	Model	Gas Type	Kit P/N	Model	Gas Type	Kit P/N	
	F/B 25-165		100525	F/B 25-165		100528	
NOTE: A unit with a	F/B 200-250		100526	F/B 200-250	Natural	100529	
ΔV7) requires P/N	F 300-400; B 300	Naturai	100527	F 300-400; B 300	Naturai	100530	
257010. an ignition	B 400		102348	B 400		102349	
controller for				F/B 25-200		100531	1
intermittent spark	See pages 7	'-8 for a parts each kit.		F 250-400; B 250-300	Propane	100532	
pilot with lockout				B 400		102350	1

WARNING: This ignition conversion kit is to be installed by a qualified agency 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 installation.

Instructions for Installing Ignition Conversion Kit

(Option AH3)

1. Turn off the gas supply at a shutoff valve upstream of the combination valve and turn off the electrical supply.

2. Change Combination Valve

Disconnect the main gas line, the wires and the pilot tubing from the valve and remove the valve. Install the valve provided with the kit being sure that the gas flow through the valve is in the proper direction and that the valve is in an allowable orientation. Follow the valve manufacturer's instructions and, if applicable, the replacement valve kit instructions for details on installing the valve.

Reconnect the main gas line. Do not reconnect the pilot tubing or wires at this time.

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.

3. Install the Ignition Controller (See FIGURE 1 for location.)

Attach the ignition controller mounting **bracket** to the rear of the heater using the holes in the cabinet and the #10x3/8" screws in the kit. Position the ignition controller on the bracket with the wire terminals across the bottom. Use the #8x5/8" screws to attach the ignition controller to the bracket.

Instructions (cont'd)

FIGURE 1 - Ignition Control Location



4. Change Pilot

FIGURE 2 - Bottom Access Panel Open



FIGURE 3 - Pilot Spark Gap



The match-lit pilot consisted of the pilot with hood and the flame-sensing thermocouple. The new spark pilot assembly has a hooded pilot, a flame sensor rod, and an ignitor. Before installing the pilot, verify the correct spark gap between the pilot hood and the ignitor. See **FIGURE 3**. The spark gap must be maintained at .100". The spark gap is set by the manufacturer and should be correct, but it is wise to recheck before installation. If adjustment is required, hold the ceramic base with a pair of pliers while adjusting the rod.

Install the spark pilot assembly being sure that the pilot burner is extended toward the burner tube. Be sure to include the pilot shield that is used only with the spark pilot assembly. (See **FIGURES 4A, 4B, and 4C**.)



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CAUTION: Control, P/N 257010, with lockout is required with a vent damper. The controller has a safety feature that once it is used with a vent damper, it will no longer operate a unit without a vent damper.

Attach one end of the flame sensor wire (150°C red silicone wire) to the flame probe on the pilot assembly. Attach the other end of the flame sensor wire to Terminal "SENSE" on the ignition controller. Attach the free end of the high tension spark wire (wire attached to the ignitor on the pilot assembly) to the spike ("SPARK") terminal on the ignition controller. Push the wire firmly so that the spike is fully inserted and the wire secure.

Connect the pilot tubing to the gas valve. Position the tubing, high tension wire and flame sensor wire in a location where they will not interfere with gas or air entering the burner or be pinched by the bottom panel. Do not wrap the high tension wire and the flame sensor wire together. The tubing and the wires may be routed through the opening for the manifold pipe.

5. Wiring (Follow the appropriate new wiring diagram label in the kit.)

Remove the outer left heater side panel (left when facing the rear of the heater), revealing the wiring.

Using the wires on the heater and the new wire assemblies in the kit, make the connections according to the instructions below and the new wiring diagram label in the kit.

- (a) Replace transformer Models with standard 115 volt supply require a transformer change when converting to spark ignition. Models with optional 208, 230 or 460 supply voltage do not require a transformer change. If your unit requires a transformer change, disconnect the wires from the transformer and remove the transformer from the heater. (See FIGURE 1.) To install the new transformer, through the "large" hole in the side panel for mounting the transformer, slide the Tinnerman clips over the transformer screw holes. Insert the new transformer in the mounting hole and fasten with the 1-3/4" long screws included in the kit. Reconnect the brown wire from the terminal strip and the line voltage yellow and black wires. Do not reconnect the blue wire.
- (b) ECO (Energy Cutoff) Wiring The ECO wiring on a unit with a standard pilot is routed through the rear of the heater. When the unit is converted to spark, the ECO wiring must be re-routed through the side panel. Follow these instructions to re-route and reconnect the ECO wires (Refer to Wiring Diagram on page 6):
 - (1) On the rear of the heater (fan panel), remove the Heyco device (strain relief bushing) that holds the two red wires going through the fan panel. (These wires were disconnected from the gas valve in Step 2.)
 - (2) On the side of the heater, remove the small fan/limit control access panel (See FIGURE 5). Reach through the access hole and pull both red wires completely through the fan panel into the heater where the ECO is located. One of these wires will be used on the converted heater, but the other must be replaced with the longer red wire in the conversion kit. Carefully disconnect one of the wires from the ECO control and discard that wire. The red ECO wire in the kit has two different terminals. Connect the end with the straight insulated terminal to the ECO control.
 - (3) Remove the Heyco device (See **FIGURE 5**) from the inner side panel. Add the two red ECO wires to the fan and limit wires that are already there. Using pliers, rein-



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Instructions (cont'd)

(b) ECO (Energy Cutoff) Wiring (cont'd)

stall the Heyco device. Check to be sure that none of the wires (ECO, fan or limit) come in contact with the heat exchanger tubes.

- (4) Connect the red ECO wire with the 90° insulated terminal to the transformer. If a new transformer was not installed, disconnect the blue wire to make this connection. If a new transformer was installed, make the connection on the 24V side where the blue wire had been connected to the old transformer.
- (5) At the terminal strip (See **FIGURE 1**), disconnect and discard the blue wire. At the same place on the terminal strip, connect the other red ECO wire.
- (6) Re-attach the small fan and limit control access panel.
- (c) Combination Gas Valve Connect the blue, black, and brown wires from the ignition control. Attach the blue wire either to the P, TH-TR or PV terminal, depending on the gas valve model. Attach the black wire to either M, TH or MV terminal. Attach the brown wire to the terminal marked either C, TR or PV-MV (See Diagram, page 6).

6. Change the Lighting Instruction Plate and the Wiring Diagram on Heater

Lighting Instruction Plate – The new lighting instruction plate is self-adhesive and can be placed over the original lighting instruction plate. Make sure the surface of the old instruction plate is clean and dry. Remove the backing and adhere the new lighting instruction plate so that it covers the original standing pilot instruction plate.

Wiring Diagram – The new wiring diagram is also self-adhesive and is made to cover the original diagram on the heater.

If the heater is a Model F; a Model B with a direct drive blower motor; a Model B with a beltdriven blower with a motor without a contactor; or a Model B with a belt driven blower with a motor with a contactor, select the diagram that matches the heater. Remove the backing and adhere it over the diagram on the heater.

If the heater is a Model B with a belt-driven blower with a motor with a starter, contact your Reznor Representative, providing the complete model number, the serial number, and the number of the wiring diagram originally supplied on the heater. When the custom wiring diagram arrives, verify that it matches, remove the backing, and adhere it over the wiring diagram on the heater.

7. Check the main gas line for leaks using a commercial leak detecting fluid or a rich soap and water solution. Leaks are indicated by the presence of bubbles.

WARNING: All components of gas supply must be leak tested prior to placing equipment in service. NEVER TEST FOR LEAKS WITH AN OPEN FLAME. Failure to comply could result in severe personal injury, property damage or death.

Turn on the electric and the gas. Relight, following the instructions on the new lighting instruction plate.

WARNING: In the event of improper ignition, wait at least five minutes before attempting to relight heater.

Check all gas connections including the pilot connections for leaks, If a leak cannot be stopped by tightening, replace the part.

Observe the pilot flame through the pilot lighting hole. The flame should extend $\frac{1}{2}$ to 1" past the flame sensing device (**FIGURE 7**).

To adjust the pilot flame, remove the pilot adjustment cover screw from the combination valve. Turn the inner adjustment screw clockwise to decrease or counterclockwise to increase the pilot flame. Replace the cover screw after adjustment to prevent gas leak-age.

8. Adjust Manifold Pressure

Depending on how the unit was originally equipped, the correct pressure adjustment may depend on the area of the country in terms of elevation. Check the elevation listed on the rating plate.

FIGURE 7 - Proper Flame Adjustment

- a) If the rating plate indicates 0-2000 ft, and the installation is located at 0-2000 ft, follow the instructions to check the manifold pressure to be sure that it is 3.5 inches w.c. for natural gas or 10.0 inches w.c. for propane.
- b) If the rating plate indicates a higher elevation the elevation adjustment was made at the factory by an orifice change. Follow the instructions to check the manifold pressure to be sure that it is 3.5 inches w.c. for natural gas or 10.0 inches w.c. for propane.
- c) If the rating place indicates 0-2000 ft and the actual elevation is higher, determine the correct manifold pressure for the elevation and follow the instructions to set the valve outlet pressure.

	Manifold Pressure	Settings by Elevat	ion
Elevatio	n Ranges	Natural Gas	Propane
Feet	Meters	(inche	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

Instructions:

- 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 (fluidfilled gauge) is recommended rather than a spring type gauge due to the difficulty of maintaining calibration of a spring type gauge.
- 2) Remove the cap from the pressure adjusting screw and adjust the manifold pressure to the pressure determined to be correct for the installation. Cycle the main burners once or twice to properly seat the adjustment spring in the valve.

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

3) Measure the manifold pressure. If further 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 adjustment screw. This can result in unregulated manifold pressure causing excess overfire and heat exchanger failure.

- 3) 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.
- 4) 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.
- **9.** Check for reliable and safe operation by operating the heater for several complete cycles. CHECK FOR PROPER OPERATION OF ALL SAFETY FEATURES.

WARNING: Wait at least five minutes before attempting to relight heater in the event of pilot outage or improper ignition.

10. Replace the side panel and close the bottom access panel. Restore the heater to normal operation. If a thermostat with a heat anticipator is used, it should be reset to approximately .8 amperes.

Typical Wiring Diagram - Intermittent Spark Pilot with or without Lockout, Single-Stage Heating

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NOTE: These kits are ignition conversion kits only; NOT gas conversion kits.

WARNING: These kits are for Reznor Models F and B only. Do not use them on any other products.

<u>SECTION 1</u> - Kits to convert natural gas units from standing pilot to spark-ignited, intermittent safety pilot <u>without lockout</u>, Option AH2 (not applicable to propane units – propane requires pilot with lockout).

lgn	ition Conver	rsion Kit P/N 100525
Ар	plies to: Moo	del F 25-165, Natural Gas; Model B 25-165, Natural Gas
Qty	P/N	Description
1	96307	Gas Valve, 1/2", M/H #VR8204-M1000 (Single stage)
1	257474	Ignition Controller Assy including:
1	257009	Ignition Control Non-Lockout, UTEC 1003-638A
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	257014	Red Wire Assy (I.C."SENSE")
1	122655	Yellow Wire Assembly (I.C. "TH") The loose yellow wire is not used in this
1	173307	Black Wire Assembly (I.C. "TH") application
1	97204	Pilot Shield
1	97534	Pilot Assy, Johnson #Q9OFF-1
1	98044	Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket
2	64246	#10 x 3/8" Ig Screws (to attach bracket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach control to bracket)
1	102708	Transformer, 35 VA, Basler #BE141640-RAK
2	103152	Screws, #6 x 1-3/4" lg (for mounting transformer)
2	111233	Clips, Tinnerman #C6310-6Z-4 (for transformer screws)
1	96101	Lighting Instruction Plate
1	100550	Instruction Sheet CP-F/B-IGN
Wirin	g Diagrams (select the one that matches the heater):
1	258173	For Model F 25-65
1	258174	For Model B 25-100 w/direct drive motor & B 50-165 w/belt drive motor (no contactor)
1	258175	For Model B 75-165 with belt drive motor with contactor
1	Special	Consult factory for Wiring Diagram for Model B with a starter.
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ign	ition Conver	rsion Kit P/N 100526
ign Ap	ition Conver plies to: Moo	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas
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Ign Ap Qty 1 <th>lition Conver piles to: Moc P/N 121599 257474 257009 133108 98214 257074 98214 257074 98214 257074 98214 257074 98215 257014 97524 97524 97534 97524 97534 97534 98044 257012 64246 195638</th> <th>sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Controller Assy including: Ignition Controller Assy including: Ignition Control Non-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "RVD Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "SUO BURNER") Brown Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket)</th>	lition Conver piles to: Moc P/N 121599 257474 257009 133108 98214 257074 98214 257074 98214 257074 98214 257074 98215 257014 97524 97524 97534 97524 97534 97534 98044 257012 64246 195638	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Controller Assy including: Ignition Controller Assy including: Ignition Control Non-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "RVD Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "SUO BURNER") Brown Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket)
Ign Ap Qty 1 2 4 1	ition Conver piles to: Moc P/N 121599 257474 257009 133108 98215 98214 257074 98215 257074 98245 173307 97204 97534 257012 64246 195638 195638 102708	sion Kit P/N 100526 Sel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Iron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Green Wire Assy (I.C. "GND BURNER") Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Shield Pilot Assy, Johnson #Q3OFF-1 Red Wire Asst (ECO to Transformer) 18 ga. x 20", 150"C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK
Ign Ap Qty 1 2 4 1 2	ition Conver plies to: Moc P/N 121599 257474 257009 133108 98215 257014 122655 173307 97204 97534 98044 257012 64246 195638 102708 102708 102708	sion Kit P/N 100526 del F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Ron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Red Wire Assembly (I.C. "TH") Pilot Shield Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer)
Ign Ap Qty 1 2 2 2	ition Conver plies to: Moc P/N 121599 257474 257009 133108 98214 287074 98215 287014 122655 173307 97204 97534 97534 97634 97534 98044 257012 64246 195638 102708 103152 103152 103152 103152	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Controller Assy including: Ignition Control Non-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Green Wire Assy (I.C. "NV") Green Wire Assy (I.C. "AV OND") Red Wire Assy (I.C. "CAV OND") Red Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assey (D C To Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE 141640-RAK Screws, #6 x 1.34/# Ig (for mounting transformer) Clips, Tinnerman #C6310-6Z-4 (for transformer screws)
Ign Ap Qty 1 2 2 1	lition Conver piles to: Moc P/N 121599 257474 257074 98215 98214 257074 98215 257074 98215 257074 98245 257074 98245 173307 97534 257012 6426 195638 102708 102708 102708 102708	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Controller Assy including: Ignition Control Non-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") The loose yellow wire is not used in this application Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate
Ign Ap Qty 1 2 1 2 1 2 1 1	lition Conver plies to: Moc P/N 121599 257474 257009 133108 98215 287014 257074 98245 257014 122655 2757014 122655 98044 257012 64264 195634 102708 103152 103152 103152	sion Kit P/N 100526 sion Kit P/N 100526 Jescription Gas Valve, 1/2', M/H #VR8304M2816 (single stage) Ignition Control Ron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MVP") Bue Wire Assy (I.C. "GND BURNER") Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Shield Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (I.C. Th") Pilot Shield Pilot Assy (G2D to Transformer) 18 ga. x 20", 150"C w/2 Terminats Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach bracket to heater) Clips, Tinnerman #C6310-62-4 (for transformer) Clips, Tinnerman #C6310-62-4 (for
Ign App Qty 1 2 1 2 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </th <th>ition Conver plies to: Moc P/N 121599 257474 257009 133108 98215 287014 122655 257014 122655 173307 97204 98044 257012 64246 195638 102708 102708 102550 111233 96101 100550 g Diagrams (:</th> <th>sion Kit P/N 100526 lef F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Iron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "CM") Red Wire Assy (I.C. "CM") Red Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Sheld Pilot Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, # x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-6Z-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): </th>	ition Conver plies to: Moc P/N 121599 257474 257009 133108 98215 287014 122655 257014 122655 173307 97204 98044 257012 64246 195638 102708 102708 102550 111233 96101 100550 g Diagrams (:	sion Kit P/N 100526 lef F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Iron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "CM") Red Wire Assy (I.C. "CM") Red Wire Assy (I.C. "TH") Black Wire Assembly (I.C. "TH") Pilot Sheld Pilot Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, # x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-6Z-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater):
Ign App Qty 1 2 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1	lition Conver piles to: Moc P/N 121599 257474 257009 133108 98215 98214 257074 98215 257074 98215 257074 98245 257074 98245 122655 173307 97534 98044 257012 64246 64246 64246 103523 102708 100708 10000000000	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy (I.C. "MV/PV") Brown Wire Assy (I.C. "MV/PV") Brown Wire Assy (I.C. "MV/PV") Brown Wire Assy (I.C. "AV/PV") Green Wire Assy (I.C. "AV/PV") Brown Wire Assy (I.C. "AV/PV") Brown Wire Assy (I.C. "AV GND") Red Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") The loose yellow wire is not used in this application Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-//B-IGN select the one that matches the heater): For Model F 25-65
Ign App Qty 1 2 4 1 2 1 1 1 1 1 1 1 1 1 1 1	lition Conver piles to: Moc P/N 121599 257474 257009 133108 98215 257014 257074 98245 257014 257074 98245 257014 257074 97534 98044 257074 257012 64246 195638 102708 103152 111233 96101 100550 g Diagrams (; 258173	sion Kit P/N 100526 silef 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Ron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Green Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "SENSE") Yellow Wire Assembly (I.C. "TH") Black Wire Assembly (I.C. "TH") Pitot Shield Pitot Assy, Johnson #Q9OFF-1 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer) Clips, Tinnerman #C6310-62-4 (for transformer) Clips, Tinnerman #C6310-62-4 (for transformer) Clips. Tinnerman #C6310-62-4 (for transforme
App App Qty 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ition Conver plies to: Moc P/N 121599 257474 257009 133108 98215 257014 122655 173307 97204 98044 257014 257014 257012 64246 195638 102708 102708 102708 103152 111233 96101 100550 g Diagrams (; 258173 258175	sion Kit P/N 100526 Jel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Ron-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy (I.C. "GND BURNER") Red Wire Assy (I.C. "CM") Red Wire Assy (I.C. "TH") The loose yellow wire is not used in this application Black Wire Assembly (I.C. "TH") Pilot Shield Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 38" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basier #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #06310-6Z-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model F 25-65 For Model B 25-100 wiffred drive motor & B 50-165 w/belt drive motor (no contactor) For Model B 25-105 with belt drive motor with contactor
App Apy	ition Conver piles to: Moc P/N 121599 257474 257009 133108 98215 98214 257074 98215 257014 122655 173307 97534 98044 257012 64246 195638 102708 103152 111233 96101 100550 9 0 Jagrams 2 0 Jagrams 2 0 Jagrams 2 58175 2 58175 2 58174 2 58175	sion Kit P/N 100526 iel F 200-250, Natural Gas; Model B 200-250, Natural Gas Description Gas Valve, 1/2", M/H #VR8304M2816 (single stage) Ignition Control Non-Lockout, UTEC 1003-638A Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Green Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Red Wire Assy (I.C. "CM") Red Wire Assy (I.C. "CM") The loose yellow wire is not used in this application Pilot Assy, Johnson #Q9OFF-1 Red Wire Assy (EC to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach bracket to heater) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-34'A Ig (for rumounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheat CP-F/B-IGN select the one that matches the heater): For Model B 25-100 widirect drive motor & B 50-165 w/belt drive motor (no contactor) For Model B 25-100 widirect drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter.

Ign	ition Conve	rsion Kit P/N 102348	
Ap	plies to: Moo	del B 400, Natural Gas	
Qty	P/N	Description	
1	222037	Replacement Valve Kit including P/I P/N 97572; and Instruction Sheet, F	N 221525 Valve, W/R #36H32-441; Compression Nut, P/N 222038
1	257474	Ignition Controller Assy including:	
1	257009	Ignition Control Non-Lockout, U	TEC 1003-638A
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 BU	RNER")
1	98215	Brown Wire Assy I.C. "24V GNE)")
1	257014	Red Wire Assy (I.C."SENSE")	
1	122655	Yellow Wire Assembly (I.C. "TH")	The loose vellow wire is not used in this application
1	173307	Black Wire Assembly (I.C. "TH")	The loose yellow wire is not used in this application.
1	97204	Pilot Shield	
1	97534	Pilot Assy, Johnson #Q9OFF-1	
1	98044	Red Wire Assy (ECO to Transforme	r) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket	
2	64246	#10 x 3/8" Ig Screws (to attach brac	ket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach contro	ol to bracket)
1	96101	Lighting Instruction Plate	
1	100550	Instruction Sheet CP-F/B-IGN	
1	258175	For Model B 400 with belt drive mot	or with contactor
1	Special	Consult factory for Wiring Diagram f	for Model B 400 with a starter.

Igni	tion Conversi	on Kit P/N 100527
App	lies to: Mode	F 300-400, Natural Gas; Model B 300, Natural Gas
Qty	P/N	Description
1	222037	Replacement Valve Kit including P/N 221525 Valve, W/R #36H32-441; Compression Nut, P/N 97572; and Instruction Sheet, P/N 222038
1	257474	Ignition Controller Assy including:
1	257009	Ignition Control Non-Lockout, UTEC 1003-638A
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	257014	Red Wire Assy (I.C. "SENSE")
1	122655	Yellow Wire Assembly (I.C. "TH") The lease vallow wire is not used in this application
1	173307	Black Wire Assembly (I.C. "TH")
1	97204	Pilot Shield
1	97534	Pilot Assy, Johnson #Q9OFF-1
1	98044	Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket
2	64246	#10 x 3/8" Ig Screws (to attach bracket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach control to bracket)
1	102708	Transformer, 35 VA, Basler #BE141640-RAK
2	103152	Screws, #6 x 1-3/4" lg (for mounting transformer)
2	111233	Clips, Tinnerman #C6310-6Z-4 (for transformer screws)
1	96101	Lighting Instruction Plate
1	100550	Instruction Sheet CP-F/B-IGN
Wiring	Diagrams (se	ect the one that matches the heater):
1	258173	For Model F 30-400
1	258174	For Model B 25-100 w/direct drive motor &I B 50-165 w/belt drive motor (no contactor)
1	258175	For Model B 300 with belt drive motor with contactor
1	Special	Consult factory for Wiring Diagram for Model B with a starter.

<u>SECTION 2</u> - Kits to convert natural gas units from standing pilot to sparkignited, intermittent safety pilot with lockout, Option AH3.

lgn	ition Conve	rsion Kit P/N 100528				
Ap	plies to: Mo	del F 25-165, Natural Gas; Model	B 25-165, Natural Gas			
Qty	P/N	Description		Qty	P/N	Description
1	96307	Gas Valve, 1/2", M/H #VR8204-M	1000 (single stage)	1	257012	Controller Bracket
1	257475	Ignition Controller Assy including:		2	64246	#10 x 3/8" Ig Screws (to attach bracket to heater)
1	257010	Ignition Control w/100% Lock	out, UTEC 1003-514	3	195638	#8 x 3/8" Ig Screws (to attach control to bracket)
1	133108	Black Wire Assy (I.C. "MV")		1	102708	Transformer, 35 VA, Basler #BE141640-RAK
1	98215	Brown Wire Assy (I.C. "MV/PV")		2	103152	Screws, #6 x 1-3/4" lg (for mounting transformer)
1	98214	Blue Wire Assy (I.C. "PV")		2	111233	Clips, Tinnerman #C6310-6Z-4 (for transformer screws)
1	257074	Green Wire Assy (I.C. "GND Burner")		1	96101	Lighting Instruction Plate
1	98215	Brown Wire Assy I.C. "24V GND")		1	100550	Instruction Sheet CP-F/B-IGN
1	173303	Red Wire Assy (I.C. "24V")		Wirin	g Diagram	s (select the one that matches the heater):
1	257014	Red Wire Assy (I.C."Sense")		1	258173	For Model F 25-65
1	122655	Yellow Wire Assy (I.C. "TH")	The loose yellow wire is not	1	250474	For Model B 25-100 w/direct drive motor & B 50-165 w/belt
1	173307	Black Wire Assembly (I.C. "TH")	used in this application.	'	250174	drive motor (no contactor)
1	97204	Pilot Shield		1	258175	For Model B 75-165 with belt drive motor with contactor
1	97534	Pilot Assy, Johnson #Q9OFF-1		1	Special	Consult factory for Wiring Diagram for Model B with a
1	98044	Red Wire Assy (ECO to Transform w/2 Terminals	ner) 18 ga. x 20", 150°C]		starter .

<u>SECTION 2</u> - Kits to convert natural gas units from standing pilot to spark-ignited, intermittent safety pilot with lockout, Option AH3 (cont'd).

Igni	ition Convers	sion Kit P/N 100529		
Арр	olies to: Mod	el F 200-250, Natural Gas; Model E	B 200-250, Natural Gas	
Qty	P/N	Description		
1	121599	Gas Valve, 1/2", M/H #VR8304M28	316 (single stage)	
1	257475	Ignition Controller Assy including:		
1	257010	Ignition Control w/100% Lockou	ut, UTEC 1003-514	
1	133108	Black Wire Assy (I.C. "MV")		
1	98215	Brown Wire Assy (I.C. "MV/PV"	Brown Wire Assy (I.C. "MV/PV")	
1	98214	Blue Wire Assy (I.C. "PV")		
1	257074	Green Wire Assy (I.C. "GND BU	URNER")	
1	98215	Brown Wire Assy I.C. "24V GNI	D")	
1	173303	Red Wire Assy (I.C. "24V")		
1	257014	Red Wire Assy (I.C."SENSE")		
1	122655	Yellow Wire Assy (I.C. "TH")	e loose vellow wire is not used in this application	
1	173307	Black Wire Assy (I.C. "TH")	e loose yellow wire is not used in this application.	
1	97204	Pilot Shield		
1	97534	Pilot Assy, Johnson #Q9OFF-1		
1	98044	Red Wire Assy (ECO to Transforme	Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals	
1	257012	Controller Bracket		
2	64246	#10 x 3/8" Ig Screws (to attach brack	cket to heater)	
4	195638	#8 x 3/8" Ig Screws (to attach contr	rol to bracket)	
1	102708	Transformer, 35 VA, Basler #BE14	1640-RAK	
2	103152	Screws, #6 x 1-3/4" Ig (for mounting	g transformer)	
2	111233	Clips, Tinnerman #C6310-6Z-4 (for	r transformer screws)	
1	96101	Lighting Instruction Plate		
1	100550	Instruction Sheet CP-F/B-IGN		
Wiring	g Diagrams (s	elect the one that matches the heate	er):	
1	258173	For Model F 200-250		
1	258174	For Model B 200-250 w/direct drive	e motor &I B 50-165 w/belt drive motor (no contactor)	
1	258175	For Model B 200-250 with belt drive	e motor with contactor	
1	Snecial	Consult factory for Wiring Diagram	fFor Model B with a starter	

Igni	ition Conver	sion Kit P/N 100530	
App	olies to: Mod	lel F 300-400, Natural Gas; Mo	odel B 300, Natural Gas
Qty	P/N	Description	
1	222037	Replacement Valve Kit includi Compression Nut, P/N 97572	ng P/N 221525 Valve, W/R #36H32-441; and Instruction Sheet, P/N 222038
1	257475	Ignition Controller Assy includ	ing:
1	257010	Ignition Control w/100% L	ockout, UTEC 1003-514
1	133108	Black Wire Assy (I.C. "MV	a)
1	98215	Brown Wire Assy (I.C. "MV	//PV")
1	98214	Blue Wire Assy (I.C. "PV")	
1	257074	Green Wire Assy (I.C. "GN	ID BURNER")
1	98215	Brown Wire Assy I.C. "24\	/ GND")
1	173303	Red Wire Assy (I.C. "24V")
1	257014	Red Wire Assy (I.C."SENS	SE")
1	122655	Yellow Wire Assy (I.C. "TH")	The loose vellow wire is not used in this application
1	173307	Black Wire Assy (I.C. "TH")	The loose yellow wire is not used in this application.
1	97204	Pilot Shield	
1	97534	Pilot Assy, Johnson #Q9OFF-	1
1	98044	Red Wire Assy (ECO to Trans	former) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket	
2	64246	#10 x 3/8" Ig Screws (to attacl	h bracket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach	control to bracket)
1	102708	Transformer, 35 VA, Basler #E	3E141640-RAK
2	103152	Screws, #6 x 1-3/4" lg (for mo	unting transformer)
2	111233	Clips, Tinnerman #C6310-6Z-	4 (for transformer screws)
1	96101	Lighting Instruction Plate	
1	100550	Instruction Sheet CP-F/B-IGN	
Wiring	g Diagrams (s	select the one that matches the	heater):
1	258173	For Model F 300-400	
1	258175	For Model B 300 with belt driv	e motor with contactor
1	Special	Consult factory for Wiring Dia	aram for Model B with a starter.

Igni	tion Conversi	on Kit P/N 102349	
App	lies to: Mode	I B 400, Natural Gas	
Qty	P/N	Description	
1	222037	Replacement Valve Kit includin Compression Nut, P/N 97572; a	g P/N 221525 Valve, W/R #36H32-441; and Instruction Sheet, P/N 222038
1	257475	Ignition Controller Assy includin	ig:
1	257010	Ignition Control w/100% Lo	ckout, 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. "GNI	D BURNER")
1	98215	Brown Wire Assy I.C. "24V	GND")
1	173303	Red Wire Assy (I.C. "24V")	
1	257014	Red Wire Assy (I.C."SENSE	ⁿ)
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	97204	Pilot Shield	
1	97534	Pilot Assy, Johnson #Q9OFF-1	
1	98044	Red Wire Assy (ECO to Transfe	ormer) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket	
2	64246	#10 x 3/8" Ig Screws (to attach	bracket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach c	ontrol to bracket)
1	96101	Lighting Instruction Plate	
1	100550	Instruction Sheet CP-F/B-IGN	
	258175	For Model B 400 with belt drive	motor with contactor
1	Special	Consult factory for Wiring Diag	ram for Model B with a starter.

<u>SECTION 3</u> - Ignition Conversion Kits to convert propane gas units from standing pilot to spark-ignited, intermittent pilot safety system with lockout, Option AH3.

	uon conversi	
App	olies to: Model	F 25-200, Propane; Model B 25-200, Propane
Qty 1	P/N 96310	Description Gas Valve 1/2" M/H #VR8204_M1018 (single stage)
1	257475	lanition 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	25/014	Red Wire Assy (I.C. "SENSE")
1	173307	Black Wire Assy (I.C. "TH") The loose yellow wire is not used in this application.
1	97204	Pilot Shield
1	97535	Pilot Assy, Johnson #Q9OFF-2
1	98044	Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals
1	257012	Controller Bracket
2	64246	#10 x 3/8" Ig Screws (to attach bracket to heater)
4	195638	#8 x 3/8" Ig Screws (to attach control to bracket)
1	102708	Transformer, 35 VA, Basler #BE141640-RAK
2	103152	Screws, #6 x 1-3/4" Ig (for mounting transformer)
2	111233	Lighting Instruction Dista
1	100550	
Nirino	Diagrams (sel	lect the one that matches the heater):
1	258173	For Model F 25-200
1	258174	For Model B 25-200 w/direct drive motor and B 50-165 w/belt drive motor (no contactor)
1	258175	For Model B 75-200 with belt drive motor with contactor
1	Special	Consult factory for Wiring Diagram for Model B with a starter.
lgn	ition Conversi	on Kit P/N 100532
Арр	olies to: Mode	I F 250-400, Propane; Model B 250-300, Propane
Qty	P/N	Description
1	221634	Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-4422; Compression Nut,
	004	P/N 97572; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039
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	25/0/4	Green Wire Assy (I.C. GND BURNER)
1	173303	Biowit wire Assy (I.C. 24V GND)
1	257014	Red Wire Assy (I.C. 24V) Red Wire Assy (I.C. "SENSE")
1	122655	Yellow Wire Assy (I.C. "TH")
1	173307	Black Wire Assy (I.C. "TH") The loose yellow wire is not used in this application.
1	97204	Pilot Shield
1	97535	Dilet Assy, Johnson #000EE 2
1	98044	FIULASSY, JUHISUH #Q9UFF-2
1		Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals
	257012	Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket
2	257012 64246	Red Wire Assy, Joinson #3907F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater)
1 2 4	257012 64246 195638	Prior Assy, Jointson #2907F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket)
2 4 1	257012 64246 195638 102708	FiloLASSY, Jointson #JGOCF-2 Red Wire Assy, Jointson #JGOCF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK
1 2 4 1 2	257012 64246 195638 102708 103152	Phot Assy, Jointool #3007F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer)
1 2 4 1 2 2	257012 64246 195638 102708 103152 111233	Red Wire Assy, Joinson #3907F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws)
1 2 4 1 2 2 1	257012 64246 195638 102708 103152 111233 96101	Filo Assy, Joinson #JBOTF-2 Red Wire Assy, Joinson #JBOTF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach tracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-624 (for transformer screws) Lighting Instruction Plate
1 2 4 1 2 2 1 1	257012 64246 195638 102708 103152 111233 96101 100550	Phot Assy, Jointson #JBOTP-2 Red Wire Assy, Jointson #JBOTP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN
1 2 4 1 2 2 1 1 1 Wiri	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (Phot Assy, Jointson #JGOTP-2 Red Wire Assy, Jointson #JGOTP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): EcoMdod E CG 400
1 2 4 1 2 2 1 1 1 Wiri 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 255174	Pilot Assy, Jointon Wagor P-2 Red Wire Assy, Jointon Wagor P-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model F 250-400 Eco Model P 250-400 Eco Model P 250-400
1 2 4 1 2 2 1 1 1 1 1 1 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258174	File Assy, Jointson #JBOPF-2 Red Wire Assy, Jointson #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach tracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model P 250-400 For Model B 250 with belt drive motor (no contactor) For Model B 250 300 with belt drive motor (no contactor)
1 2 4 1 2 2 1 1 1 1 1 1 1 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 Special	Filot Assy, Jointson #JBOPF-2 Red Wire Assy, Jointson #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 30° Ig Screws (to attach bracket to heater) #8 x 30° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-34° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Witingo Diagrams for Meddla B with a structure
1 2 4 1 2 2 1 1 1 1 1 1 1 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 Special	Pilot Assy, Jointsol #J3007F-2 Red Wire Assy, Jointsol #J3007F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Liphting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model F 250-400 For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter.
2 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi	Filot Assy, Jointson #JBOPF-2 Red Wire Assy, Jointson #JBOPF-2 Red Wire Assy, GEOt to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach tracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerma #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/8-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350
2 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	257012 64246 195638 102708 102708 103152 111233 96101 100550 ing Diagrams (258173 258175 Special ition Conversional polies to: Mode	Filot Assy, Jointson #JBOPF-2 Red Wire Assy, Jointson #JBOPF-2 Red Wire Assy, GEOt to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach tracket to heater) #8 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. On Kit P/N 102350 B4 400, Propane
2 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi poles to: Mode P/N	Prior Assy, Jointson #JBOTP-2 Red Wire Assy, Jointson #JBOTP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 30° Ig Screws (to attach tracket to heater) #8 x 30° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model F 250-400 For Model B 250-400 For Model B 250-400 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. m Kit P/N 102350 B 400, Propane Description
1 2 4 1 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 201624	Pilot Assy, Jointson #JBOTP-2 Red Wire Assy, Jointson #JBOTP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model F 250-400 For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 IB 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut.
1 2 4 1 2 1 1 1 1 1 1 Qty 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634	Pilot Assy, Joinson #JBOTP-2 Red Wire Assy, Joinson #JBOTP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach tracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9757; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039
2 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475	Filot Assy, Jointson #JBOPF-2 Red Wire Assy, Jointson #JBOPF-2 Red Wire Assy, GEOt to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach control to bracket) #710 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. On Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9757; L2X3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including:
1 2 4 1 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475 257010	Pilot Assy, Jointsol #J307F-2 Red Wire Assy, Jointsol #J307F-2 Red Wire Assy, Jointsol #J307F-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #4 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN Select the one that matches the heater): For Model B 250-400 For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9772; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Control Wr100% Lockout, UTEC 1003-514
1 2 4 1 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257010 133108	Pilot.Rssy, Jointsol #JBO/FP-2 Red Wire Assy, Jointsol #JBO/FP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach control to bracket) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerma #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/8-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Control W100% Lockout, UTEC 1003-514 Black Wire Assy (I.C. "MV")
1 2 4 1 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258173 258174 258175 5pecial ition Conversis Jolies to: Mode P/N 221634 257010 133108 98215	Pilot Assy, Jointson #JBOPP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach tracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips. Tinnerma #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 12x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy including: Brown Wire Assy (I.C. "MV/PV")
1 2 4 1 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi polies to: Mode P/N 221634 257475 257010 133108 98215 98214	Pilot Assy, Jointson #JBOPP-2 Pilot Assy, Jointson #JBOPP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach tracket to heater) #48 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) Consult factory for Wiring Diagram for Model B with a starter. Consult factory for Wiring Diagram for Model B with a starter. I B 400, Propane Description Replacement Valve Kit including PIN 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 1/2x3/4 Hex Bushing, PIN 37385, and Instruction Sheet, PIN 222039 Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy (I.C. "MV/PV") Blue Wire Assy (I.C. "MV/PV")
- -	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475 257010 133108 98215 98214	Pilot Assy, Jointsol #JBOPF-2 Red Wire Assy, Jointsol #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 30° Ig Screws (to attach bracket to heater) #8 x 30° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-34″ ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9752; 1/2x34 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Control w/100% Lockout, UTEC 1003-514 Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "PV") Green Wire Assy (I.C. "PV")
I 2 4 1 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257074 257070 133108 98215	Pilot Assy, Joinson #JBO/Fr-2 Red Wire Assy, Joinson #JBO/Fr-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach tracket to heater) ## 3 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-624 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy (I.C. "MV/P") Blue Wire Assy (I.C. "MV/P") Blue Wire Assy (I.C. "MV/P") Brown Wire Assy (I.C. "GND BURNER") Brown Wire Assy I.C. "24V GND")
I 2 4 1 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 258174 258175 258174 258175 258174 258175 257010 133108 98215 98214 257074 173303	Pilot Assy, Joinson #JBOPP-2 Red Wire Assy, Joinson #JBOPP-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4 ° Ig (for mounting transformer) Clips, Tinnerma #C8310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-400 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. On Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 12-X34 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy including: Buse Wire Assy (I.C. "MV/PV') Bue Wire Assy (I.C. "MV/PV') Bue Wire Assy (I.C. "AV/PV') Buse Wire Assy (I.C. "AV/PV') Red Wire Assy (I.C. "24V')
I 2 4 1 2 1	257012 64246 195638 102708 103152 111123 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475 257010 133108 98214 257074 98215 98214 257074	Pilot Assy, Joinson #JBOPP-2 Pilot Assy, Joinson #JBOPP-2 Red Wire Assy (ECo to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #48 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, 476 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) Rev Mit Pilot 100 with contactor Consult factory for Wiring Diagram for Model B with a starter. Instruction Sheet CP-F2-100 Becoription Replacement Valve Kit including PIN 221526 Valve, W/R #36H32-442; Compression Nut, PIN 97572; 1/2x3/4 Hex Bushing, PIN 37385; and Instruction Sheet, PIN 222039 Ignition Controll w/100% Lockout, UTEC 1003-514 Biack Wire Assy (LC. "NV") Brown Wire Assy (LC. "NV") Brown Wire Assy (LC. "NV") Bue Wire Assy (LC. "NVD") Red Wire Assy (LC. "CND BURNER") Brown Wire Assy (LC. "CND BURNER") Red Wire Assy (LC. "Z4V") Red Wire Assy (LC. "Z4V")
I 2 4 2 1 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special 258174 258175 Special 258174 221634 257010 133108 98215 98214 257074 98215 173303 257014	Pilot Assy, Joinson #JBOPF-2 Red Wire Assy, Joinson #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20°, 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerma #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/8-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 1/2x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controll #7.05% Lockout, UTEC 1003-514 Black Wire Assy (I.C. "MV") Brown Wire Assy (I.C. "MVP") Blue Wire Assy (I.C. "MVP") Blue Wire Assy (I.C. "CND BURNER") Green Wire Assy (I.C. "CND BURNER") Red Wire Assy (I.C. "24V GND") Red Wire Assy (I.C. "24V SNE") Yellow Wire Assy (I.C. "TH") The Joogs yellow wire is not used in this annication
I 2 1 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 258174 258175 258174 257010 133108 98215 98214 257074 257075 257010 133108 98215 98214 257075 257010 133108 98215 173307	Filot Assy, Jointson #JBOPF*2 Red Wire Assy, ClECo to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach bracket to heater) #8 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. On Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9752; 12x3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy (I.C. "MVPV') Black Wire Assy (I.C. "MVPV') Bue Wire Assy (I.C. "MVPV') Bue Wire Assy (I.C. "MVPV') Red Wire Assy (I.C. "MVPV') Red Wire Assy (I.C. "MVPV') Red Wire Assy (I.C. "AVT)
- 2 4 1 2 1 1 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258174 258175 Special ition Conversi polies to: Mode P/N 221634 257475 257010 133108 98215 98214 257074 98215 173303 257014	Filot Assy, Jointsol #JBOPF-2 Red Wire Assy (ECo to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) #8 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-300 with belt drive motor vilth contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9757; L2X3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy (I.C. "MV/P') Black Wire Assy (I.C. "MV/PV') Blue Wire
2 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475 257010 133108 98215 98214 257074 98215 173303 257014 122655 173307 97204 97535	Filo Assy, Jointson #JBOPF-2 Red Wire Assy, CECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 30° Ig Screws (to attach bracket to heater) #8 x 30° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-34" ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model E 250-400 For Model E 250-300 with belt drive motor (no contactor) For Model B 250 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9752; 1/2X3/4 Hex Bushing, P/N 37385; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller M100% Lockout, UTEC 1003-514 Black Wire Assy (I.C. "MVP') Brown Wire Assy (I.C. "MVP') Brewn Wire Assy (I.C. "MVP') Red Wire Assy (I.C. "CMD BURNERr') Brown Wire
I 2 4 1 2 2 1	257012 64246 195638 102708 103152 1111233 96101 100550 ing Diagrams (258173 258174 258175 Special 258174 258175 Special 258174 258175 257010 133108 98215 98214 257074 98215 173307 97204 97335 98044	Filot Assy, Jointsol #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8° Ig Screws (to attach bracket to heater) #8 x 3/8° Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4° Ig (for mounting transformer) Clips, Tinnerman #C6310-62-41 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250 with belt drive motor (no contactor) For Model B 250 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9752; 1/2x3/4 Hex Bushing, P/N 37385, and Instruction Sheet, P/N 222039 Ignition Control w/100% Lockout, UTEC 1003-514 Black Wire Assy (I.C. "MV/") Brown Wire Assy (I.C. "MV/") Brown Wire Assy (I.C. "MV/") Red Wire Assy (I.C. "XV") Red Wire Assy (I.C. "SENSE")
I 2 4 1 2 1	257012 64246 195638 102708 103152 111233 96101 100550 ing Diagrams (258173 258174 258175 Special 258175 258174 258175 258174 257010 133108 98215 98214 257074 122655 173307 97204 9735 98044 257012	Pilot Assy, Joinson #JBOPF-2 Red Wire Assy, Joinson #JBOPF-2 Red Wire Assy, Joinson #JBOPF-2 Red Wire Assy (ECO to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerma #C8310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-400 For Model B 250-400 For Model B 250-400 For Model B 250-300 with belt drive motor with contactor Consult factory for Wiring Diagram for Model B with a starter. On Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 9757; 12:X3/4 Hes Bushing, P/N 3736; and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy (I.C. "MV/PV') Blue Wire Assy (I.C. "MV/PV') Blue Wire Assy (I.C. "AV/PV') Blue Wire Assy (I.C. "EVP) Green Wire Assy (I.C. "EVP) Red Wire Assy (I.C. "EVP) Red Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. "TM/PV') Brown Wire Assy (I.C. "TM/PV') Brown Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. "TM/PV') Brown Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. TM/PV') Red Wire Assy (I.C. "TM/PV') Red Wire Assy (I.C. TM/PV') Red Wire Ass
I I 2 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2	257012 64246 195638 102708 103152 111123 96101 100550 ing Diagrams (258173 258174 258175 Special ition Conversi piles to: Mode P/N 221634 257475 257010 133108 98214 257074 98215 98214 257074 98215 173307 97204 97535 98044 257012 64246	Filot Assy, Jointsol #JBO/F*2 Red Wire Assy, CECo to Transformer) 18 ga. x 20", 150°C w/2 Terminals Controller Bracket #10 x 3/8" Ig Screws (to attach control to bracket) #8 3/8" Ig Screws (to attach control to bracket) Transformer, 35 VA, Basler #BE141640-RAK Screws, #6 x 1-3/4" Ig (for mounting transformer) Clips, Tinnerman #C6310-62-4 (for transformer screws) Lighting Instruction Plate Instruction Sheet CP-F/B-IGN select the one that matches the heater): For Model B 250-300 with belt drive motor (no contactor) For Model B 250-300 with belt drive motor (no contactor Consult factory for Wiring Diagram for Model B with a starter. on Kit P/N 102350 B 400, Propane Description Replacement Valve Kit including P/N 221526 Valve, W/R #36H32-442; Compression Nut, P/N 97572; 1/23/4 Hex Bushing, P/N 37385, and Instruction Sheet, P/N 222039 Ignition Controller Assy including: Ignition Controller Assy including: Ignition Controller Assy (I.C. "MV/PV") Blue Wire Assy (I.C. "ND/PV") Blue Wire Assy (I.C. "CMD) Red Wire Assy (I.C. "TH") The loose yellow wire is not used in this application. Pilot Asiel (LCC Th/TH) The loose yello

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Consult factory for Wiring Diagram for Model B 400 with a starter

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100550

Special

Lighting Instruction Plate Instruction Sheet CP-F/B-IGN

258175 For Model B 400 with belt drive motor with contactor