

IGNITION CONTROLLER REPLACEMENT KIT INSTALLATION FOR DUCT FURNACES

UNITS WITH SERIAL NUMBER PILOT CODE 62, 63, 65, 66, OR 84

KIT COMPONENTS

⚠ CAUTION ⚠

Ignition controller PN 257010 with lockout is required on a unit with a vent damper. The controller has a safety feature such that once it is used with a vent damper, it will no longer operate a unit without a vent damper.

NOTE: The minimum flame-proving signal strength is 0.2 microamps.

- Refer to the installation manual provided with the heater for important safety information.
- Ensure that all components listed in [Table 1](#) are available before beginning installation.

Table 1. Ignition Controller Replacement Kit Components

Component	Description	Kit PN	
		257472	257473
		Component PN (Quantity)	
Ignition control assembly	Assembly, recycling without lockout	257474 (1)	—
	Assembly, 100% lockout, required with vent damper	—	257475 (1)
	Controller (UTEC #1003-638A)	257009 (1)	—
	Controller (UTEC #1003-514)	—	257010 (1)
	Wire assembly, 20-inch, red, 24V	—	166302 (1)
	Wire assembly, 25-inch, black, MV	1027148 (1)	
	Wire assembly, 21-inch, brown, MV/PV	172622 (1)	
	Wire assembly, 21-inch, blue, PV	1011056 (1)	
	Wire assembly, 8-inch, green, GND BURNER	172334 (1)	
	Wire assembly, 21-inch, brown, 24V GND	172622 (1)	
	Wire assembly, 21-inch, red, SENSE	1027244 (1)	
Wire assembly, TH (only one of these loose wires will be used)	Black, 22-inch	166272 (1)	
	Yellow, 22-inch	170041 (1)	
Controller mounting bracket assembly (used only on models F, FE, B, BE, RX, RG and X)	Mounting bracket	257012 (1)	
	Screw, mounting bracket, #10 × 3/8	96426 (2)	
Screw	Control mounting, #8 × 3/8	195638 (4)	
Label	Wiring	257479 (1)	257478 (1)

DO NOT DESTROY. PLEASE READ CAREFULLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

INSTALLATION

Obsolete ignition controllers and their replacements are listed in [Table 2](#). Relace the controller as follows.

Table 2. Ignition Controllers					
Obsolete (See Figure 1)			Replacement (See Figure 1)		
Serial No. Pilot Code*	Manufacturer's No.	PN	Kit PN	Controller PN	Controller Description
62	G67BG-2	89314	257472	257009	Recycling without lockout—cannot be used with vent damper control
66	G67BG-5	97782			
63	G67NG-2	89488	257473	257010	With lockout and 1-hour retry—used with automatically-controlled vent damper
65	G770NGC-4	97547			
84	G770NHC-1	234012			
*Refer to the replacement parts manual found at www.reznorhvac.com for serial number information. All serial number codes apply to original equipment only.					

OBSOLETE					REPLACEMENT	
						
PN 89488	PN 97547	PN 234012	PN 89314	PN 97782	PN 257010	PN 257009

Figure 1. Ignition Controllers

1. Turn OFF gas and electric power.
2. Open cabinet and mark and disconnect spark wire from spike connector on controller.
3. Leaving all other wires connected to ignition controller, disconnect other ends of wires from unit and remove ignition controller.
4. For models F, FE, B, BE, RX, RG, and X, install controller mounting bracket and secure it to unit using two #10 × 3/8 mounting bracket screws.
5. Position replacement ignition controller in same orientation and mark and drill four 7/64-inch holes.
6. Secure replacement ignition controller to mounting bracket or to unit using four #8 × 3/8 screws.
7. Refer to [Table 3](#) for special wiring instructions.

Table 3. Special Wiring Instructions	
Procedure	Step
Replace obsolete ignition controller PN 89488 or 89314	1. Push back rubber boot and cut off Rajah connector (metal terminal) on spark wire, cutting off no more than 1 inch of wire
	2. Remove rubber boot and push ignitor wire directly onto spike connector on replacement controller
Replace obsolete ignition controller on unit with automatic vent damper	1. Remove plug from controller
	2. Plug in wiring harness from vent damper*
*The wiring harness electrically interlocks the vent damper to the controller. Unplugging either end results in a system shutdown.	

8. Reconnect wires to replacement ignition controller in accordance with wiring label (see [Figure 2](#)) as follows:
 - a. If unit has terminal block wiring, cut and strip ends as needed.

NOTE: All wires are connected to the ignition controller at the factory except to the TH terminal.

- b. If existing wire from limit control is yellow, connect loose wire from yellow wire assembly from limit control to TH terminal. One wire from assembly will not be used.
- c. If existing wire from limit control is black, connect loose wire from black wire assembly from limit control to TH terminal. One wire from assembly will not be used.

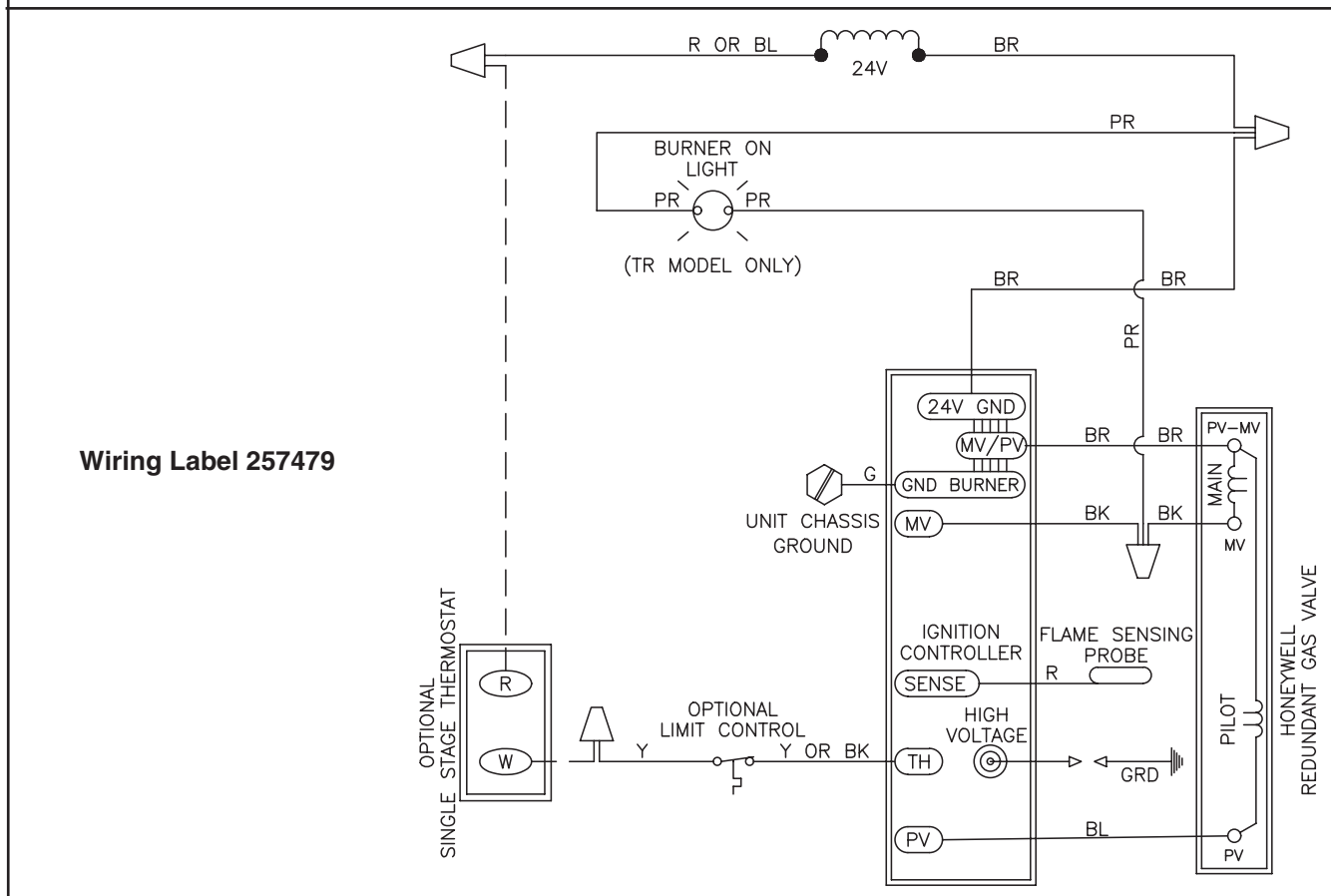
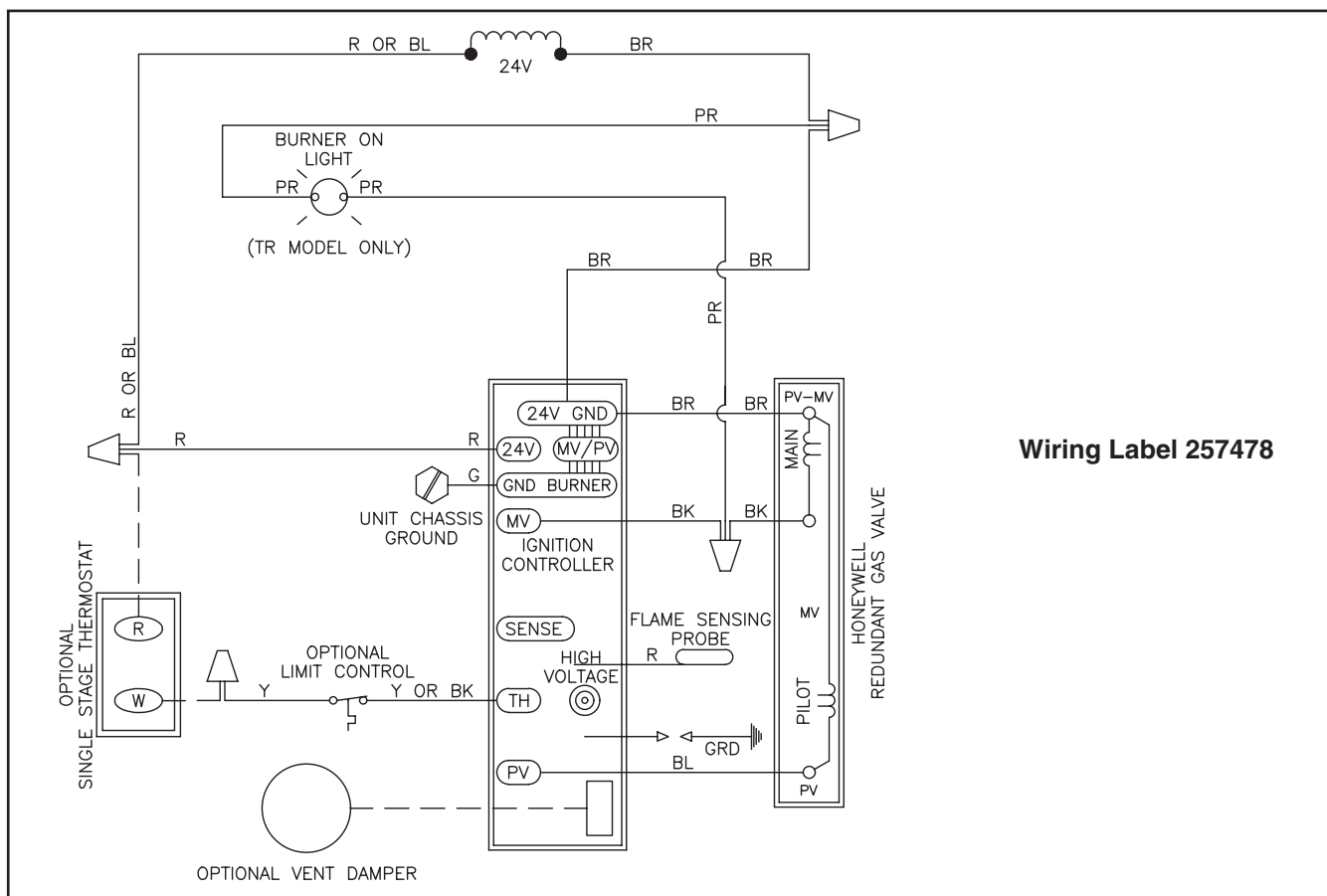


Figure 2. Wiring Labels

INSTALLATION—CONTINUED

9. Affix wiring label (see **Figure 2**):
 - a. Select location for wiring label near current wiring diagram on unit. Do not put label on surface that will be hot when heater is operating and do not put it over existing wiring diagram.
 - b. Wipe selected area with clean dry cloth, peel off backing, and adhere label.
10. Turn ON electric power and gas.
11. Follow lighting instructions with original ignition controller to relight heater.
12. Check for proper operation.

