

Replacement kit for Ignition Controller Model G60AAG-3

(Applies to any Reznor heater equipped with this controller)

Description/Application

When replacement of the ignition controller is required on **any model of Reznor heater equipped with a J/C Model G60AAG-3 ignition controller**, use one of the kits illustrated below. These kits are designed to replace the obsolete ignition controller with one of the ignition controllers currently available from the manufacturer. The installation instructions apply to both kits; read and follow carefully.

Replacement Kit, P/N 120505, includes a **J/C Model G67BG-5** ignition controller. The Model G67BG-5 is the controller in a recycling-type, spark pilot ignition system. If the burner flame is extinguished during main burner operation, the safety switch in the controller turns off the gas to the burner but allows gas to flow to the pilot. The ignition controller cycles the spark gap attempting to light the pilot. If the pilot does not light, the ignition controller continues to recycle the spark gap until pilot flame is proven.

Application: Indoor and outdoor, natural gas units with either A.G.A. or C.G.A rating plate. Outdoor, propane gas units with A.G.A. rating plate.

P/N 120505 – Replacement Kit with Recycling Ignition Controller

Code	Qty	P/N	Description
1	1	97782	Ignition Controller Model G67BG-5
2	1	92848	Flame Sensor Wire Assy
	2	90503	Screws, #6 x 1" long
	1	96101	Lighting Instruction Plate



Replacement Kit, P/N 92803, includes a **J/C Model G770NGC-4** ignition controller. The Model G770NGC-4 is a 100% lockout-type controller. If the flame is extinguished during main burner operation, this ignition controller also closes the main valve and attempts to light the pilot. But, if the pilot is not established within 120 seconds, the ignition controller shuts off the gas flow to the pilot and the unit “locks out”. To reset, power must be manually interrupted to the control circuit (thermostat). Obsolete Model G60AAG-3 ignition controller with lockout was equipped with a Model Y79 timing device.

Application: *Required* on indoor, propane gas units with an A.G.A. rating plate. *Required* on both indoor and outdoor, propane gas units with a C.G.A. rating plate. **May be used** on indoor and outdoor, natural gas units with either an A.G.A. or C.G.A. rating plate.

P/N 92803 - Replacement Kit with Ignition Controller with 100% Lockout

Code	Qty	P/N	Description
1	1	97547	Ignition Controller Model G770NGC-4
2	1	92848	Flame Sensor Wire Assy
	2	90503	Screws, #6 x 1" long
	1	96101	Lighting Instruction Plate



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.

INSTALLATION INSTRUCTIONS

DANGER: This ignition conversion kit should be installed by a qualified service 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.

- Turn off the gas supply and electric power to the heater.
- Remove the access panel from the control side of the unit.
- Remove the Ignition Controller** - Mark the wires connected to the ignition controller with their respective terminal numbers. Disconnect the wires and the ignition lead. Remove the ignition controller.
- Install Ignition Controller** - Position the replacement controller in the same location as the controller removed in Step 3 and mark the mounting holes. Drill two 7/64" holes and attach the new controller using the screws in the kit.
- Wiring Connections** - All electrical wiring and connections, including electrical grounding, **MUST** be in accordance with the national Electric Code ANSI/NFPA No. 70 (latest edition) or, in Canada, with the Canadian Electrical Code, Part I-C.S.A. Standard C22.1. In addition, the installation must comply with local ordinances and applicable gas company requirements.
 - Refer to pictorial diagrams in Figures 1 and 2. Terminal numbers on the new controller are identical to those on the original controller. Using the terminal numbers and wire markings, make connections at Terminal 1, 2, and 3.
 - Flame Sensor Wire-

RPV Models – Disconnect the flame sensor wire from the flame probes (one on the pilot and one on the burner rack). Discard flame sensor wire. Install the flame sensor wire assembly (Item 2) provided in the kit to the flame probes. Make the connection at the ignition controller (Terminal 4).

5. Wiring Connections (cont'd)

All Other Models – Check the length of the original flame sensor wire from the flame probe in the pilot assembly to the ignition controller, Terminal 4. If this wire will reach the No. 4 terminal on the new ignition controller, make that connection. In this case, the flame sensor wire assembly provided in the kit will not be used. If the original wire will not reach, it will be necessary to use the one provided in the kit. Since the flame sensor wire assembly in the kit is the two-wire assembly required on the RPV Model, only one wire of the assembly will be used on all other models.

Remove one of the sensor wires by cutting it off as close as possible to the uninsulated terminal. Connect the flame sensor wire to the flame probe in the pilot assembly and to Terminal 4 on the ignition controller.

- (c) In order to connect the ignitor lead to the new controller, it will be necessary to cut off the Rajah connector (metal terminal) on the ignitor lead. Push back the rubber boot and cut off the terminal (with no more than 1" of wire). Remove the rubber boot and push the wire directly on to the spike connector on the ignition controller. Be sure spike is fully inserted and connection secure.

6. Adhere the new lighting instruction plate to the junction box cover. Replace the access panel.

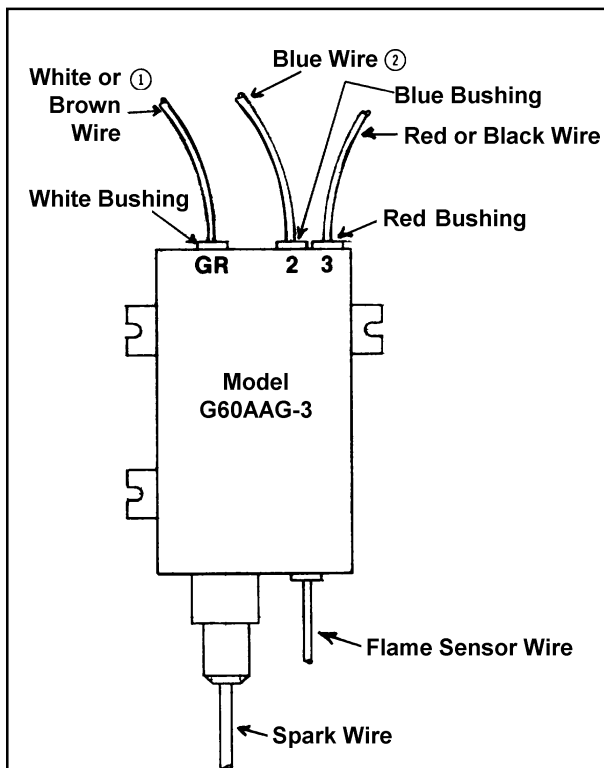


Figure 1 - Wiring of Ignition Controller, Model G60AAG-3

- ① Models with separate pilot valve may have two wires attached to ground terminal. On the new ignition controller, connect both to the ground strip.
- ② Models with separate pilot valve may have two wires attached to Terminal 2. On the new ignition controller, connect the pilot to Terminal 1 and the other to Terminal 2.

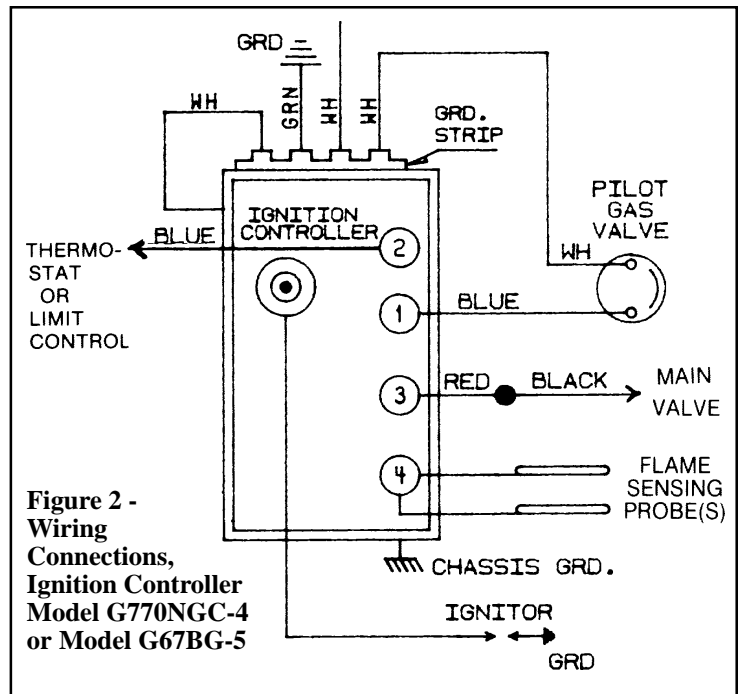


Figure 2 - Wiring Connections, Ignition Controller Model G770NGC-4 or Model G67BG-5

7. Turn on the electric power and gas supply. Check complete operation of the heater. **CHECK ALL SAFETY FEATURES FOR PROPER OPERATION.**

Troubleshooting Note: The microamp signal for a Model G67BG-5 and a Model G770NGC-4 ignition controller should be a 0.2 microamps or greater.

FOR YOUR SAFETY

If you smell gas:

1. Open windows.
2. Don't touch electrical switches.
3. Extinguish any open flame.
4. Immediately call your gas supplier.

The use and storage of gasoline or other flammable vapors and liquids in open containers in the vicinity of this appliance is hazardous.

DANGER: The gas burner in Reznor gas-fired equipment is designed and equipped to provide safe and economically controlled complete combustion. However, if the installation does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is incomplete combustion which produces carbon monoxide, a poisonous gas that can cause death. Safe operation of indirect-fired gas burning equipment requires a properly operating vent 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.**