
INSTALLATION INSTRUCTIONS

Original Issue Date: **3/94**
 Model: **6-1600 kW**
 Market: **Standby**
 Subject: **Run Relay Kits PA-273743, PA-273743-SD,
 PA-273744, and PA-273744-SD**

The run relay kit may control air intake and/or radiator louvers, and is energized only when the generator set is running. Alarms, lights, and other signalling devices can also be connected to the 3PDT relay. See Figure 1. The contacts are rated for a maximum of 10 amps at 28 vdc, 10 amps at 120 vac, and 6 2/3 amps at 250 vac. Read the instructions completely before mounting the run relay kit.



**Accidental starting.
 Can cause severe injury or death.**

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

Accidental starting can cause severe injury or death. Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator set. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

1. Move the generator master switch to the OFF-RESET position. Disconnect the battery cables, negative lead first.

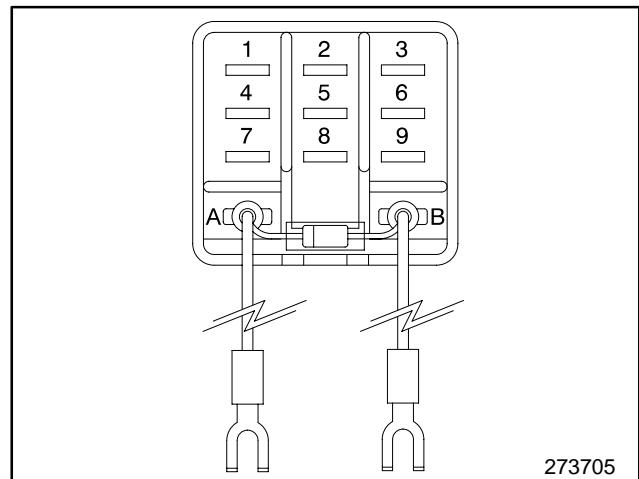


Figure 1. Run Relay

2. Install the run relay (273705 or 273706) in the junction box. It is connected to the controller safeguard terminal strip by the wiring harness provided. Use insulated 18-ga. stranded wire to connect the relay to the controller safeguard terminal strip if the relay kit is mounted in a location remote from the generator set. Do not mount the run relay kit more than 200 ft. (61.5 m) from the generator set.
3. Mark positions for drilling two holes 2.5 in. (63.50 mm) apart center to center.
4. Drill two 0.156 in. (4.0 mm) holes. Install the relay in the desired location using the enclosed hardware.
5. Locate the safeguard terminal strip in junction box. See Figure 2. Connect the red wire of the run relay to terminal 70 (+) and the black lead to terminal 7N (-) of the safeguard terminal strip. Connect the relay kit according to the diagram in Figure 3.

NOTE

Do not reverse the leads to the safeguard terminal strip because this will damage the diode and/or blow the controller fuse.

- Mount the run relay using 2 screws (X-49-26), 2 washers (X-25-9), and 2 nuts (X-6210-3).

An adequate electrical supply is required to connect the customer-provided devices to the run relay for necessary operation. Check the electrical requirements of the customer-provided accessories prior to installation. The customer-provided accessories should comply with applicable national, state, and local electrical codes.

- Reconnect the battery, negative lead last.

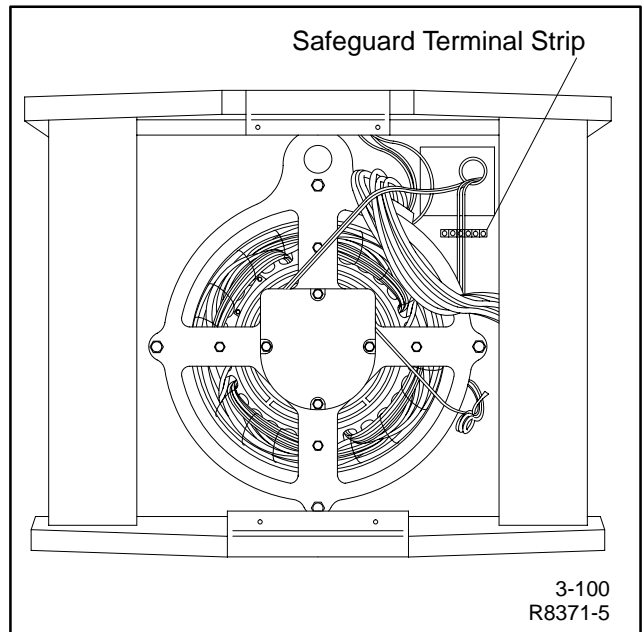


Figure 2. Location of Safeguard Terminal Strip (Typical)

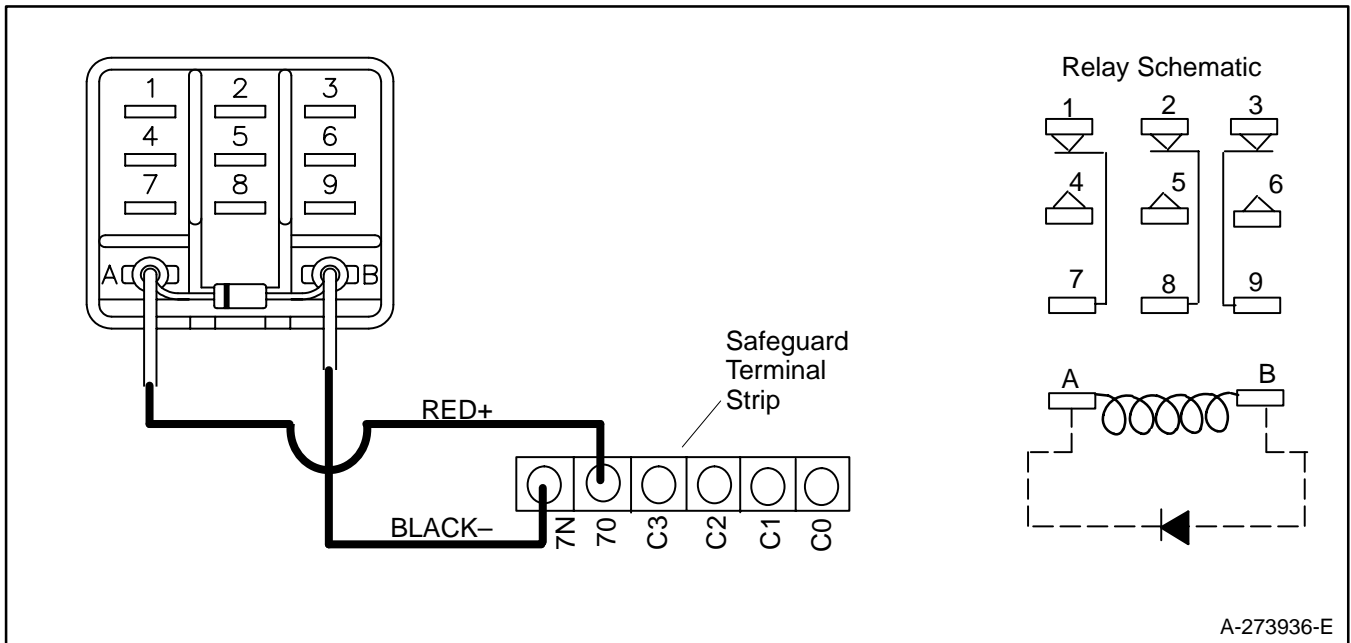


Figure 3. Connections for Run Relay Kit

Parts List			
KITS: PA-273743/PA-273743-SD and PA-273744/PA-273744-SD			
		Part Number	
Qty.	Description	PA-273743, PA-273743-SD	PA-273744, PA-273744-SD
2	Washer, plain	X-25-9	X-25-9
2	Screw, r.h.m. 6-32 x 1/2	X-49-26	X-49-26
2	Nut, whiz 6-32	X-6210-3	X-6210-3
1	Relay, run	273705	273706