
INSTALLATION INSTRUCTIONS

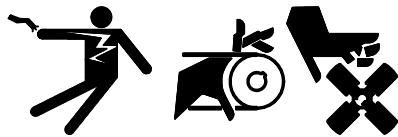
Remote Voltage Adjusting Potentiometer Kits PA-279478, PA-279478-SD, and SG-279478 350-1600 kW Standby Generator Sets

This kit provides the ability to fine-adjust the generator output voltage from a remote location. This kit is intended to be used with the PM100 voltage regulator only.

The maximum recommended distance from the potentiometer to the generator is 15 feet (4.6 meters). If further distances are required, a remote voltage regulator kit must be used. Contact your distributor for more information on additional kits.



WARNING



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 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. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

Hazardous voltage can cause severe injury or death. Short circuits can cause bodily injury and/or equipment damage. Do not contact electrical connections with tools or jewelry while adjustments are made. Remove wristwatch, rings, and jewelry that can cause short circuits.

INSTALLATION

1. Turn generator master switch to OFF position and disconnect battery cables, negative lead first.

2. Determine desired mounting location for potentiometer. Drill mounting holes for potentiometer and nameplate. See Figure 1.

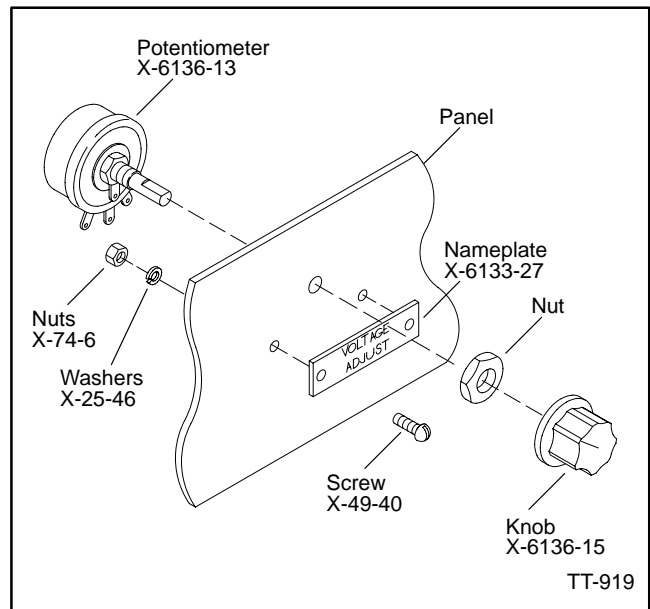


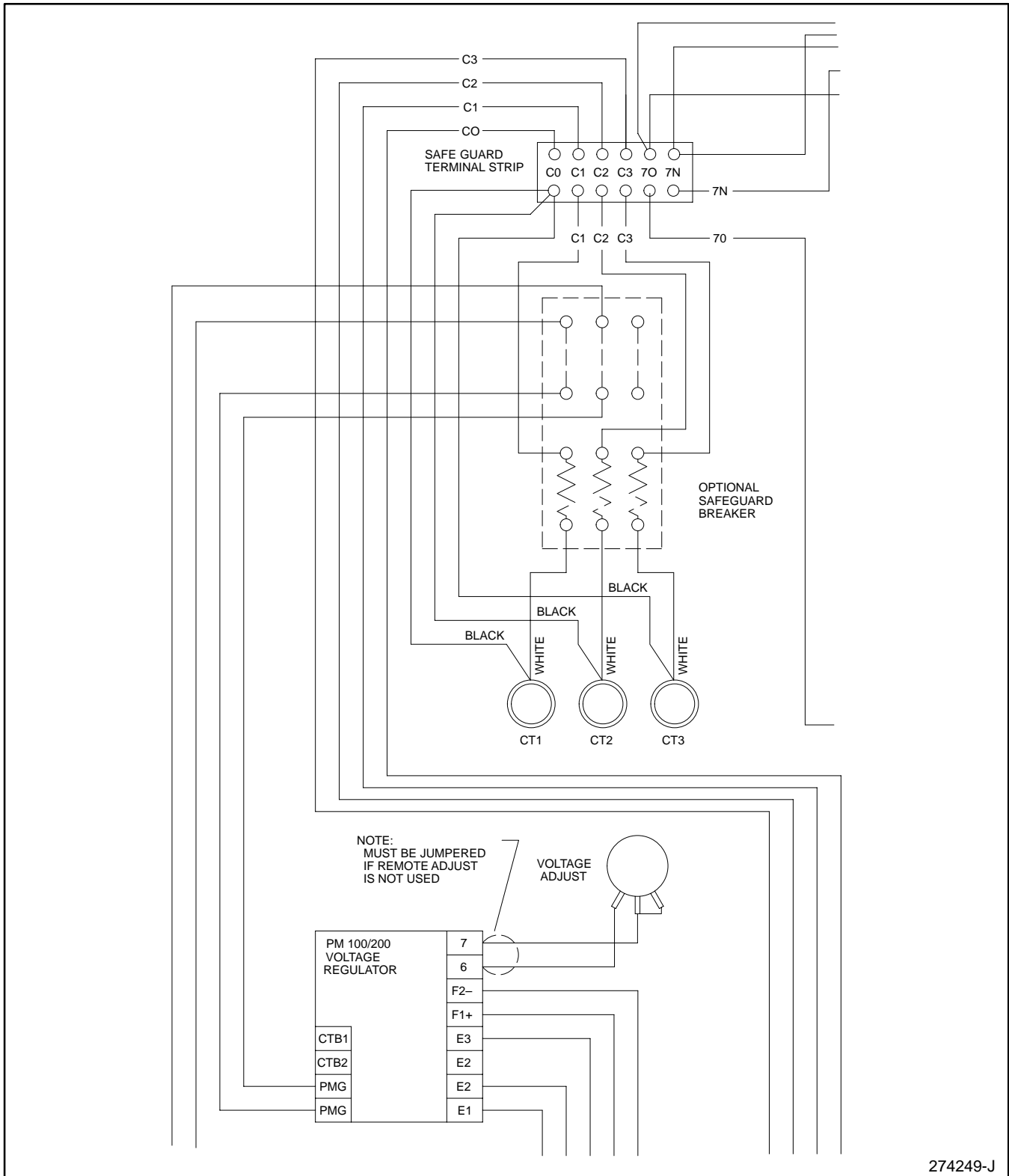
Figure 1. Potentiometer Installation

3. Using hardware attached to potentiometer, assemble potentiometer (X-6136-13) to panel. Attach knob (X-6136-15) to potentiometer.
4. Attach "voltage adjust" nameplate (X-6133-27) to panel using pan head screws (X-49-40), lock washers (X-25-46), and nuts (X-74-6).
5. Remove jumper from voltage regulator terminals 6 and 7. Use 18-gauge twisted pair wires to connect voltage adjustment potentiometer to voltage regulator. The maximum length of wire should not exceed 15 ft. (4.6 m). Connect jumper lead on potentiometer between center lug and the right-hand side lug (as viewed from the back of the potentiometer) (see Figure 2). Secure leads with cable tie (X-468-1).

NOTE

If voltage adjusting potentiometer is to be mounted in switchgear, the connection to the voltage regulator may use a terminal strip at the switchgear cabinet and/or generator set junction box. Refer to switchgear cabinet wiring diagrams for further information.

- Reconnect battery cables, negative lead last. Disconnect load from generator set. Move generator master switch to RUN position. Use voltage adjusting potentiometer to set generator output to desired voltage. STOP generator set.



274249-J

Figure 2. Wiring Diagram (350-1600 kW)

| Parts List | | |
|--|---|--------------------|
| Kits PA-279478, PA-279478-SD, and SG-279478 | | |
| Qty. | Description | Part Number |
| 2 | Washer, 0.125 x 0.250 x 0.022 in. plain | X-25-46 * |
| 1 | Tie, cable | X-468-1 |
| 2 | Screw, 4-40 x 0.375 in. pan head | X-49-40 * |
| 1 | Nameplate, voltage adjust | X-6133-27 |
| 1 | Potentiometer | X-6136-13 |
| 1 | Knob, finger grip | X-6136-15 |
| 2 | Nut, 4-40 hex | X-74-6 * |

* Items not included with kit SG-279478