

INSTALLATION INSTRUCTIONS

Original Issue Date: 9/02

Model: 20-2000 kW

Market: Industrial Generator Sets with the 550 Controller

Subject: Prime Power Switch Kit GM20652-KP1

Introduction

The prime power switch kit prevents battery drain during generator set non-operation periods and when the generator set battery cannot be maintained by an AC battery charger. Observe the following safety precautions while installing the kit. See Figure 1.

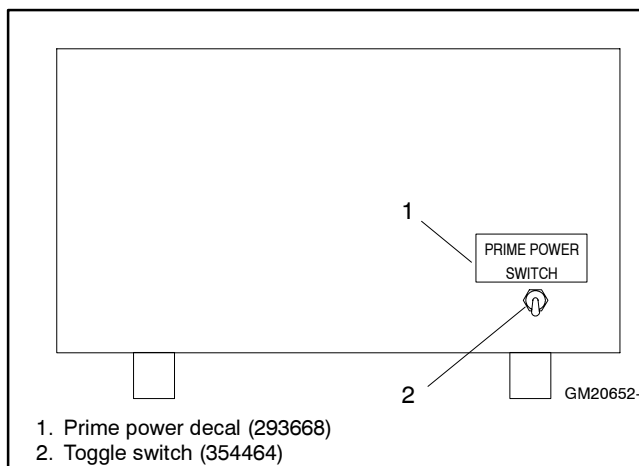
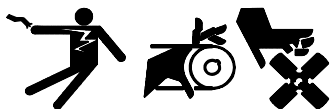


Figure 1 Prime Power Switch Installation Location
(Rear View of Controller)

Safety Precautions

Observe the following safety precautions while installing the kit.

⚠ WARNING



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

Disconnect the battery cables before working on the generator set. Remove the negative (-) lead first when disconnecting the battery. Reconnect the negative (-) lead last when reconnecting the battery.

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or connected equipment, disable the generator set as follows: (1) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

Installation Procedure

1. Remove the generator set from service.

- 1.1 Place the generator set master switch in the OFF position.
- 1.2 Disconnect the power to the battery charger, if equipped.
- 1.3 Disconnect the generator set engine starting battery(ies), negative (-) lead first.

2. Determine the toggle switch *closed* position.

- 2.1 Connect an ohmmeter to the toggle switch (354464) terminals.
- 2.2 Place the toggle switch handle in the position that indicates a closed circuit. Leave the toggle switch handle in the closed circuit position during installation.
- 2.3 Disconnect the ohmmeter.

3. Mounting the toggle switch to the controller.

- 3.1 Remove the screws securing the controller cover and remove the cover.
- 3.2 Remove the button plug from the back of the controller for toggle switch installation. The button plug will not be reused.
- 3.3 Install the toggle switch (354464) where the button plug was removed. Position the toggle switch with the handle up when in the closed circuit position.

4. Connecting the toggle switch to the controller.

- 4.1 Connect lead 14P (SW14P-1415-15057) to the toggle switch terminal which is nearest to the center of the toggle switch.
- 4.2 Connect lead 14P (SW14P-1415-5757) to the toggle switch terminal which is nearest to the end of the toggle switch.
- 4.3 Locate plug P1, pin 12 on the controller interconnection circuit board connecting lead 14P. Lead 14P is spliced using two push-on terminals near the P1 connector.
- 4.4 Disconnect leads 14P at the two push-on terminals.
- 4.5 Connect the toggle switch lead (SW14P-1415-15057) to the female push-on terminal on lead 14P. See Figure 2.
- 4.6 Connect the toggle switch lead (SW14P-1415-5757) to the male push-on terminal on lead 14P. See Figure 2.
- 4.7 Replace the controller cover and hardware.

5. Restore the generator set to service.

- 5.1 Check that the generator set master switch is in the OFF position.
- 5.2 Reconnect the generator set engine starting battery, negative (-) lead last.

- 5.3 Reconnect power to the battery charger, if equipped.
- 5.4 Move the generator set master switch to AUTO for startup by remote transfer switch or remote start/stop switch.
- 5.5 See the operation manual for operation in the prime power mode.

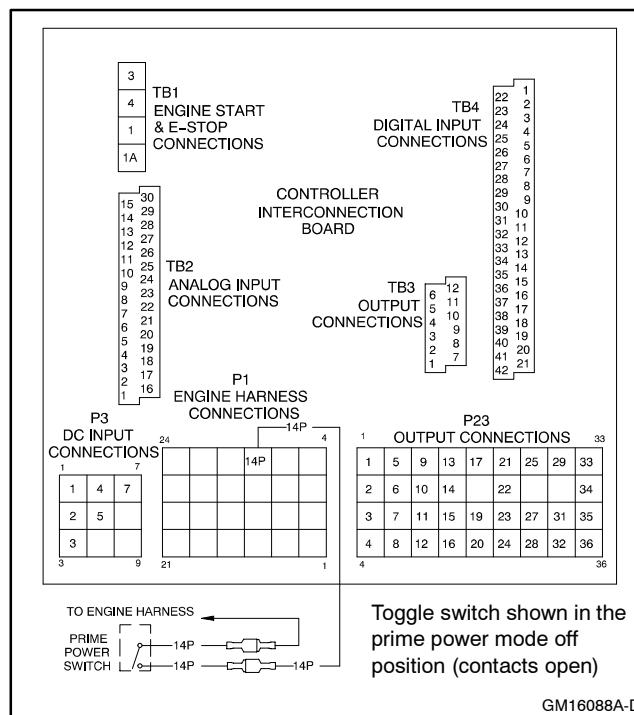


Figure 2 Toggle (Prime Power) Switch Connections

Parts List

Prime Power Switch Kit

Kits: GM20652-KP1		
Qty.	Description	Part Number
1	Lead	SW14P-1415-5757
1	Lead	SW14P-1415-15057
1	Decal, prime power switch	293668
1	Switch, toggle	354464