
INSTALLATION INSTRUCTIONS

Original Issue Date: 12/93

Model: 20-230 kW

Market: Industrial

Subject: Emergency Stop Kits PA-273845 & PA-273845-SD

Introduction

The emergency stop kit allows immediate shutdown of the generator set at the controller. The emergency stop kit can be used alone or in conjunction with remote emergency stop kits. This kit is intended for use with microprocessor controllers only.

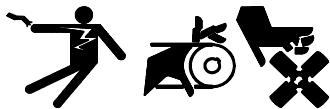
If the emergency stop switch is activated, the controller emergency stop indicator lights and the unit shuts down. The generator set cannot be restarted until the emergency stop switch is reset and the controller is reset by placing the generator set master switch in the OFF/RESET position.

Multiple emergency stop switches may be connected to the generator set; however, all switches must be connected in a series for the system to function properly.

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. Place the generator set master switch in the OFF position.
2. Disconnect the power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Remove the controller cover to access the controller circuit board. Lower the controller circuit board to a horizontal position.
5. Remove cover from the hole in the controller face panel. See Figure 1.

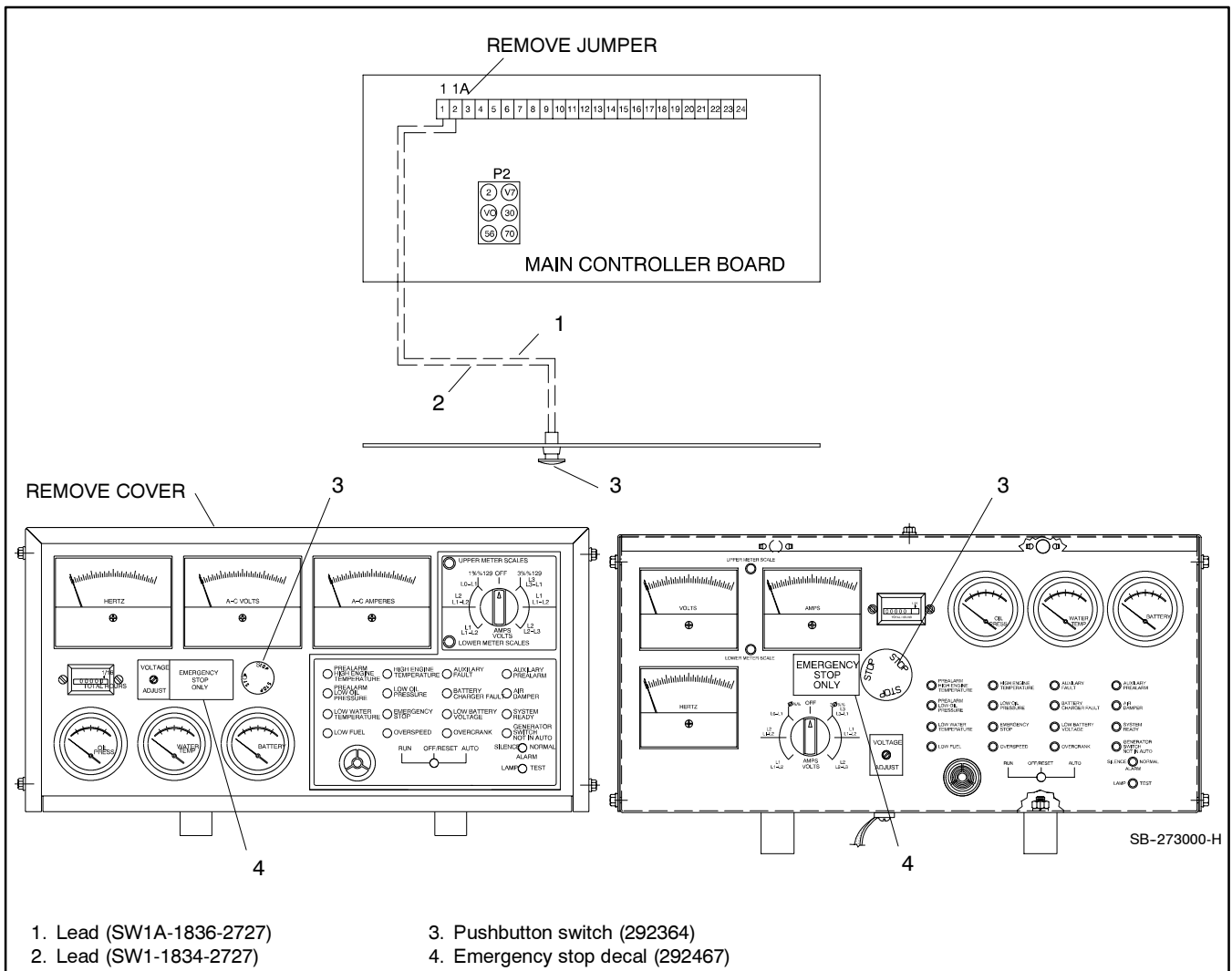


Figure 1 Emergency Stop Kit

6. Install pushbutton switch (292364). The switch consists of three components—pushbutton actuator, mounting flange, and contact block. See Figure 2. Insert the pushbutton actuator through the hole, from the front of the controller face panel. Align pins in the mounting flange with the channels in the pushbutton actuator, slide the mounting flange onto the actuator body, and turn the mounting flange a quarter-turn counterclockwise to lock. Adjust screws to secure the assembly to the controller face panel; do not overtighten screws. Turn the pushbutton clockwise to reset, if required.
7. Attach the contact block to the switch assembly. See Figure 2.

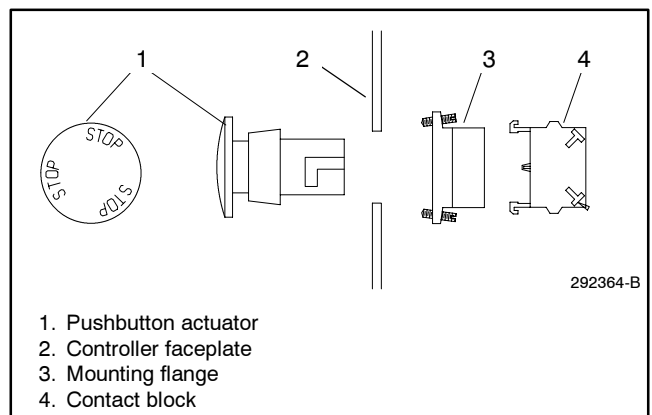


Figure 2 Emergency Stop Switch

8. Attach leads (SW1-1834-2727 and SW1A-1836-2727) to the switch. Route the leads to the circuit board terminal strip. Secure the leads with cable ties (not supplied).
9. Locate TB-1 terminal strip and remove the jumper from terminals 1 and 1A. The jumper will not be reused.
10. Return the controller circuit board to the vertical position and reinstall the controller cover.
11. With surface clean and dry, apply the emergency stop decal (292467) to the controller face plate as shown.
12. Reconnect the generator set engine starting battery, negative (-) lead last.
13. Reconnect power to the battery charger, if equipped.
14. Move the generator set master switch to the OFF/RESET position to reset the controller.
15. Test the function of the emergency stop switch by placing the generator set master switch to the RUN position to start the generator set.
16. After the generator set has run for a few minutes, press the STOP button. The generator set should

stop and the controller emergency stop fault lamp will light on 16-light microprocessor controllers. On 5- and 6-light microprocessor controllers, the low water temperature/auxiliary lamp will light.

17. Rotate the emergency stop pushbutton switch clockwise until the pushbutton springs back to the original position. The emergency stop lamp will turn off and the auxiliary fault lamp will light on 16-light microprocessor controller.
18. Move the generator set master switch to OFF/RESET position to reset controller. The auxiliary lamp should turn off on 16-light microprocessor controllers. On 5- and 6-light microprocessor controllers, the low water temperature/auxiliary lamp will turn off.

Parts List

Kit Name

Kit: PA-273845 and PS-273845-SD		
Qty.	Description	Part Number
1	Lead	SW1-1834-2727
1	Lead	SW1A-1836-2727
1	Switch, pushbutton	292364
1	Decal, emergency stop	292467