

## INSTALLATION INSTRUCTIONS

Original Issue Date: **10/13**

Model: **14/20RESA, 14/20RESAL, 20RESB, 20RESC, 20RESCL, and 20RESD**

Market: **Residential/Light Commercial**

Subject: **Emergency Stop Kit GM90095-KP1-QS**

### Introduction

Kit GM90095-KP1-QS provides an emergency stop (E-stop) button for the residential generator sets listed below.

- 14RESA and 14RESAL
- 20RESA and 20RESAL
- 20RESB
- 20RESC and 20RESCL
- 20RESD

E-stop assembly harness GM90094 contains the E-stop, contact block (P/N 292364) and two leads connected to the contact block. The harness is factory-assembled. The kit also includes the emergency stop switch decal.

The generator set enclosure is designed with an opening for the emergency stop button. Install the emergency stop button as described in the following instructions.

RDC2 firmware to version 5.5 or higher is required for E-stop operation. Use a personal computer (laptop) and Kohler® SiteTech™ software or the USB Utility to update

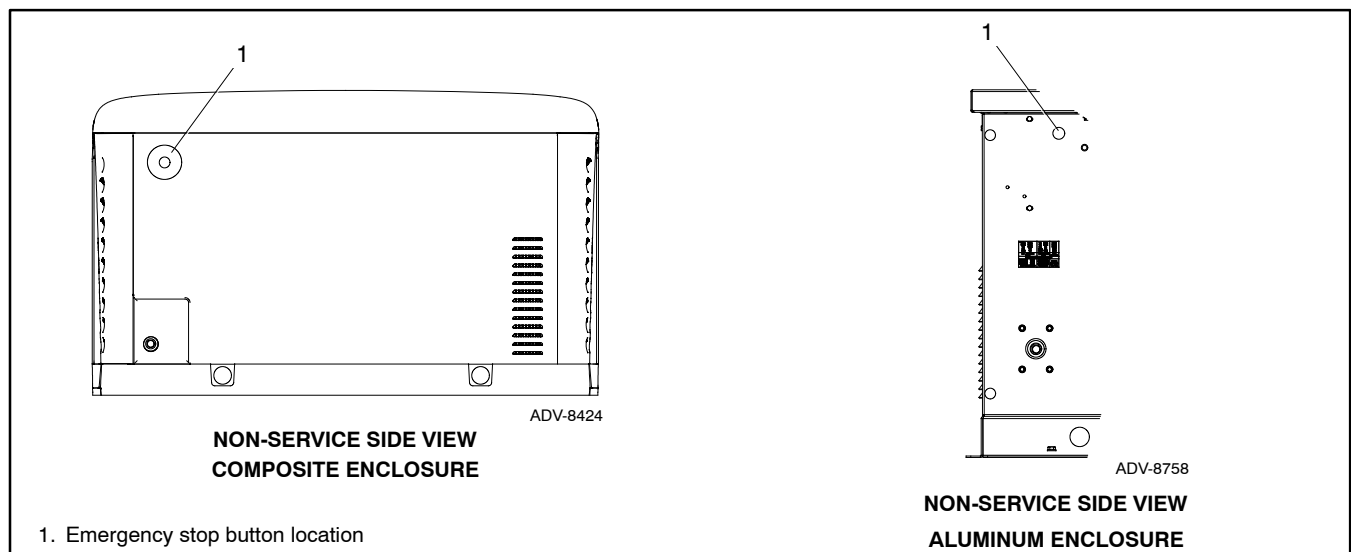
the controller firmware, if necessary. See TP-6701, SiteTech Operation Manual, or TT-1636, Firmware Update Using the USB Utility, for instructions if necessary.

Read the entire installation procedure and compare the kit parts with the parts list at the end of this publication before beginning the installation. Perform the steps in the order shown.

See Figure 1 for an illustration of the kit and Figure 2 for the kit location.



**Figure 1** Emergency Stop Kit

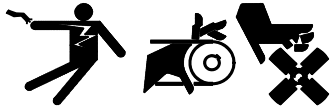


**Figure 2** Emergency Stop Button Location

## 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.

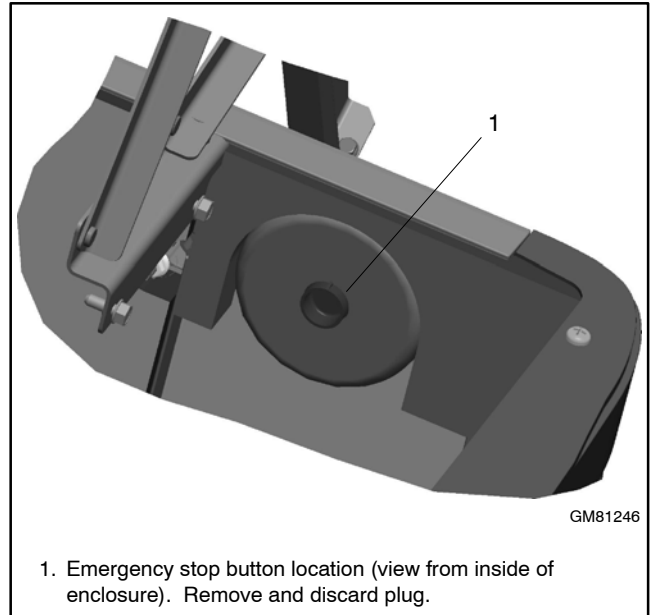
**Disabling the generator set. Accidental starting can cause severe injury or death.** Before working on the generator set or equipment connected to the set, disable the generator set as follows: (1) Press the generator set off/reset button to shut down the generator set. (2) Disconnect the power to the battery charger, if equipped. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent the starting of the generator set by the remote start/stop switch.

## Installation Procedure

Refer to the assembly drawing in Figure 2 as needed during the following procedure.

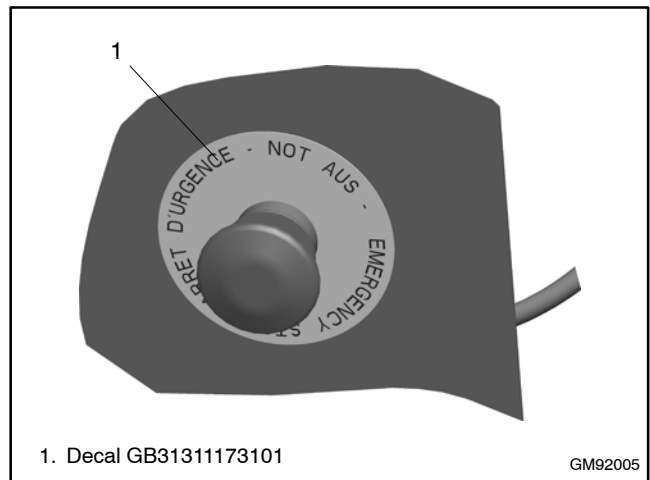
1. If necessary, use a personal computer (laptop) and Kohler® SiteTech® or the USB Utility to update the RDC2 firmware to version 5.5 or higher. See TP-6701, SiteTech Operation Manual, or TT-1636, Firmware Update Using the USB Utility, for instructions.
2. Press the OFF button on the generator set controller.
3. Disconnect the utility power that supplies the battery charger by opening the circuit breaker in the main distribution panel.
4. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
5. Open the roof and remove the two screws holding the controller in place.

6. Being careful of the connections on the back of the controller, remove the controller to gain access to the E-stop location inside the enclosure. Do not disconnect the controller.
7. Remove the plug from the opening located on the non-service side of the generator set enclosure. See Figure 3. Discard the plug.

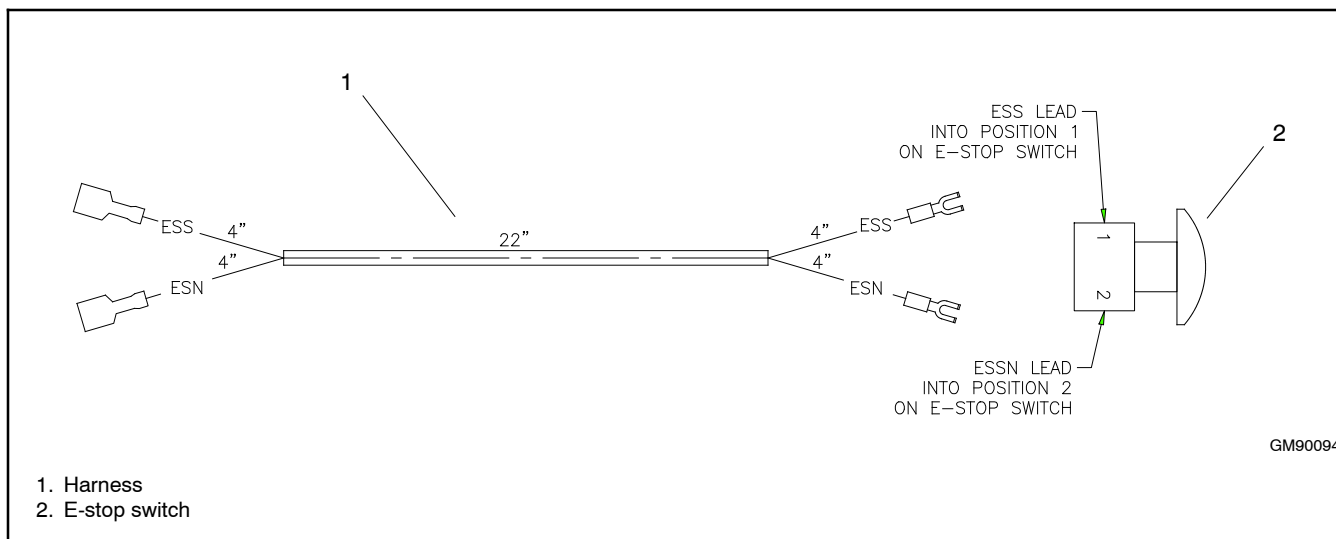


**Figure 3** Opening for E-Stop Switch (viewed from inside the enclosure; typical)

8. Apply the bright yellow Emergency Stop decal GB31311173101 to the outside of the enclosure. Center the decal on the opening for the switch. See Figure 4.

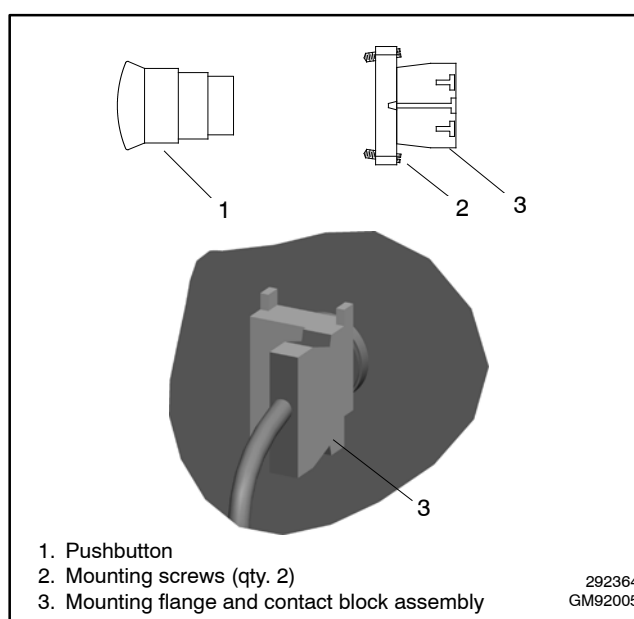


**Figure 4** Decal Placement



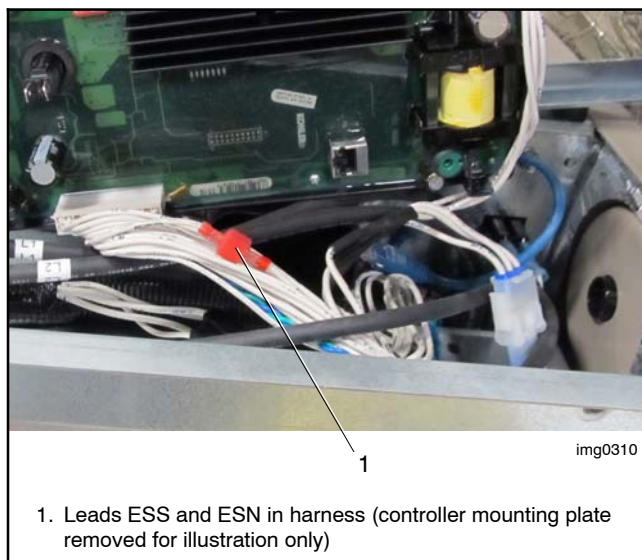
**Figure 5** E-Stop Harness Assembly GM90094 (factory-assembled)

9. The emergency stop switch assembly and harness are factory-assembled as part number GM90094. See Figure 5. For ease of assembly, make sure that the pushbutton is pulled out to the non-activated position.
10. See Figure 6. If the pushbutton and mounting flange arrive assembled, twist counterclockwise and pull to separate the mounting flange from the pushbutton. Insert the E-stop pushbutton through the opening from the outside of the genset enclosure.
11. Line up the mounting flange assembly on the inside of the genset and twist 1/4 turn to lock the E-stop pushbutton and mounting flange together.
12. Rotate the assembly as needed to access the two mounting screws. Tighten the screws on the mounting flange against the enclosure panel. See Figure 6.



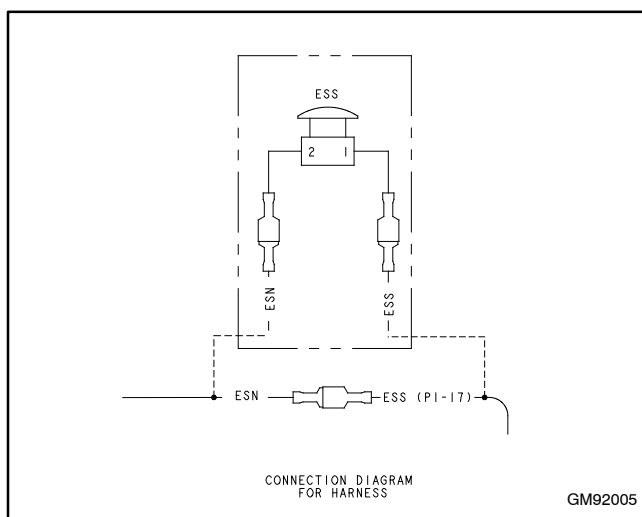
**Figure 6** E-Stop Switch Assembly

13. Turn the controller over and locate E-stop leads ESS and ESN, which are connected together in the harness. See Figure 7. Disconnect leads ESS and ESN.



**Figure 7** ESS and ESN Leads in the Harness

14. Connect lead ESS from the new E-stop harness to lead ESS in the genset wiring harness. Connect lead ESN from the new E-stop harness to lead ESN in the genset wiring harness. See Figure 8.



**Figure 8** E-Stop Connection Diagram

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15. Replace the controller and secure with two screws.
16. Check that the generator set controller is OFF.
17. Reconnect the generator set engine starting battery, negative (-) lead last.
18. Reconnect the utility power that supplies the battery charger by closing the circuit breaker in the main distribution panel.
19. Press the AUTO button on the generator set controller for automatic operation.
20. Close and lock the roof.

## Emergency Stop Switch Operation

1. Push the red emergency stop button to stop the generator set. The generator set shuts down immediately and the controller displays Emerg Stop Shutdn.
2. To reset the generator set after an emergency stop:
  - a. Pull out the emergency stop button.
  - b. Open the enclosure roof to access the generator set controller. Press the OFF button on the controller to clear the shutdown condition.
3. Press the AUTO button for automatic generator set operation, if desired.

## Parts List

### Emergency Stop Kit

Kit: GM90095-KP1-QS		
Qty.	Description	Part Number
1	Decal, Emergency Stop	GB31311173101
1	Harness Assembly, E-Stop	GM90094
1	Installation Instructions	TT-1613