

**INSTALLATION INSTRUCTIONS**

Original Issue Date: **5/20**

Model: **8/10/12RESV, 14/20RESA(L), 14/20RCA(L), 20RESC(L), 24/30RCL, 38RCLB, 48RCLB, 60RCLA, and 26RCA(L)**

Market: **Residential/Light Commercial**

Subject: **Emergency Stop Kit, GM113935-KP1-QS and GM113935-KP2-QS**

**Introduction**

Kits GM113935-KP1-QS and GM113935-KP2-QS provides an emergency stop (E-stop) button for the residential generator sets. See Figure 1 for kit selection.

Models	Kit Number
8/10/12RESV	GM113935-KP1-QS
14RESA and 14RESAL	
20RESA and 20RESAL	
14RCA and 14RCAL	
20RCA and 20RCAL	
26RCA and 26RCAL	
20RESC and 20RESCL	
24/30RCL	GM113935-KP2-QS
38/48RCLB	
60RCLA	

**Figure 1** Kit Selection

E-stop assembly harness contains the E-stop, contact block (P/N GM108093) and two leads connected to the contact block. Push button (P/N GM108092) shipped loose from the harness.

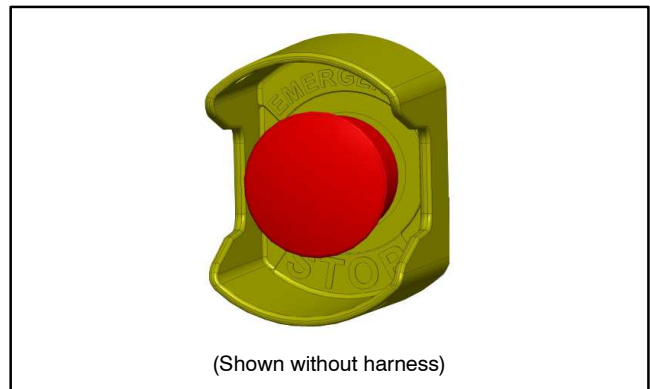
Install the emergency stop button as described in the following instructions.

RDC2 firmware 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.

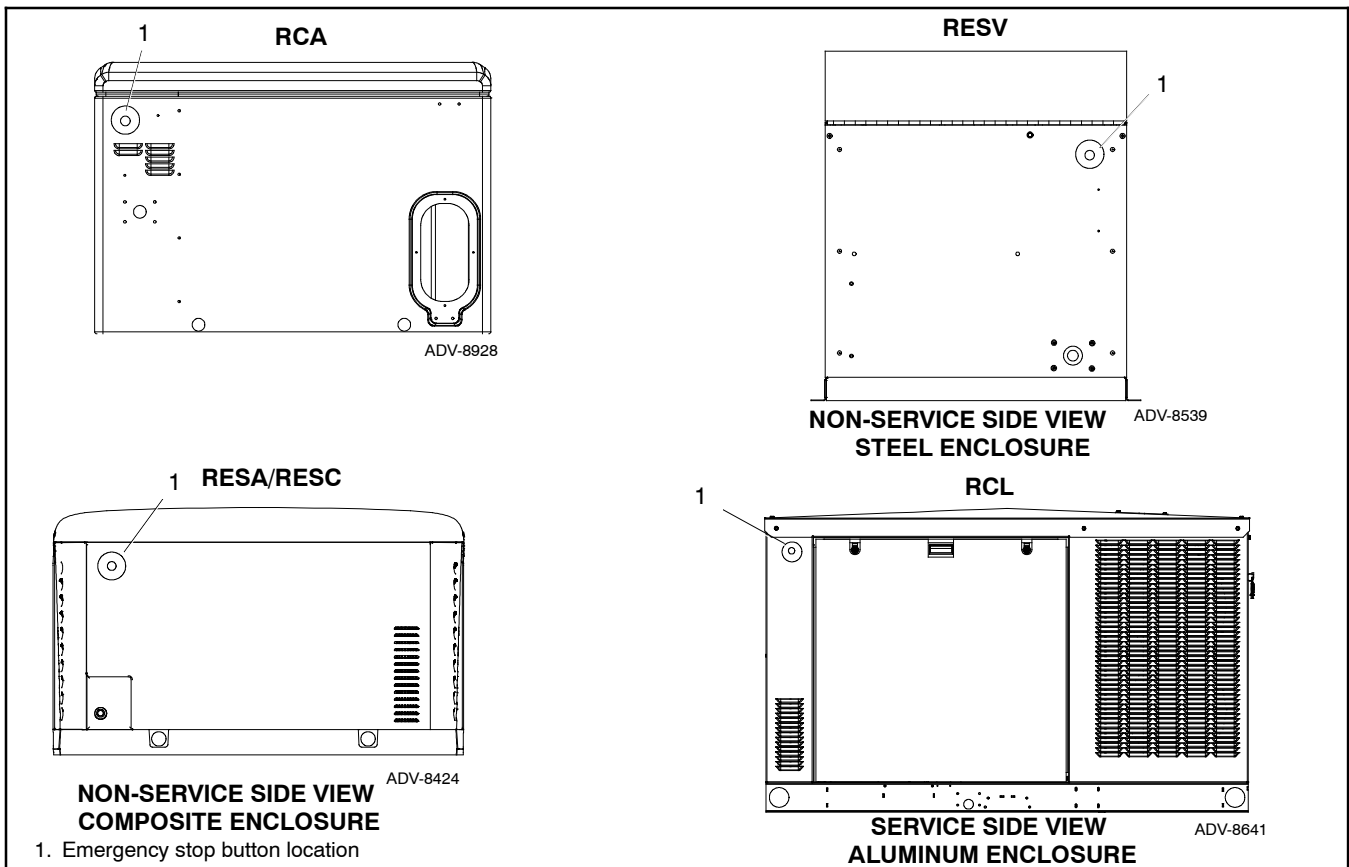
**Note:** For existing RCL models that do not have a knockout in the enclosure panel for the emergency stop switch, the remote lockable emergency stop switch GM103279-KP1-QS is recommended.

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 2 for an illustration of the kit and Figure 3 for the kit location.



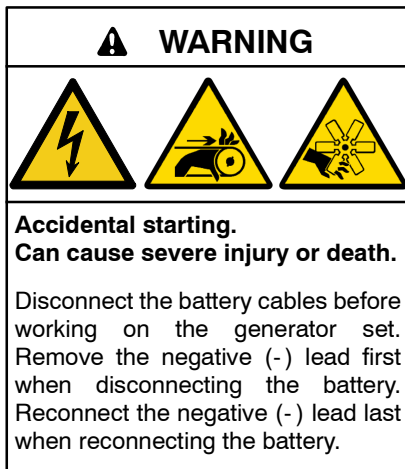
**Figure 2** Emergency Stop Kit



**Figure 3** Emergency Stop Button Location

## Safety Precautions

Observe the following safety precautions while installing the kit.



**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.

## 1. Installation Procedure

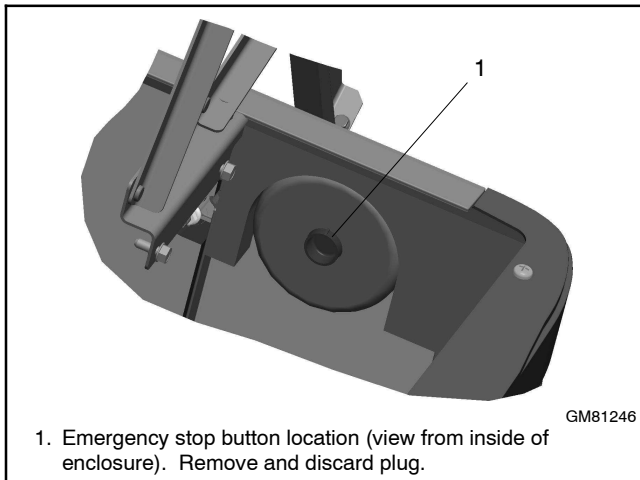
Refer to the assembly drawing in Figure 3 as needed during the following procedure.

- 1.1 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.

### For RCA, RESV, and RESA/RESC Models:

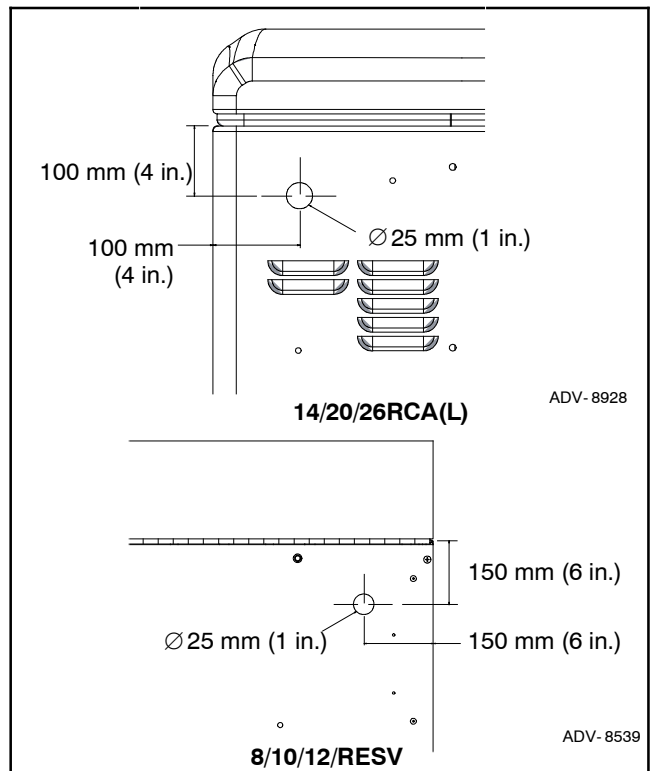
- 1.2 Using the enclosure locking tool provided with the generator set, open the enclosure roof.
- 1.3 Press the OFF button on the generator set controller.
- 1.4 Disconnect the utility power that supplies the battery charger by opening the circuit breaker in the main distribution panel.
- 1.5 Disconnect the generator set engine starting battery(ies), negative (-) lead first.
- 1.6 Remove the two screws holding the controller in place.

- 1.7 Being careful of the connections on the back of the controller, remove the controller to get access to the E-stop location inside the enclosure. Do not disconnect the controller.
- 1.8 **For 14/20RESA(L)/RESC(L) models only:** Remove the plug from the opening located on the non-service side of the generator set enclosure. See Figure 4. Discard the plug.



**Figure 4** Opening for E-Stop Switch (viewed from inside the enclosure; typical)

- 1.9 **For 14/20/26RCA(L) and 8/10/12RESV models only:** Drill 1 inch diameter of hole in location shown in Figure 5. Remove the burr from the hole fully to engage the locking nut smoothly.



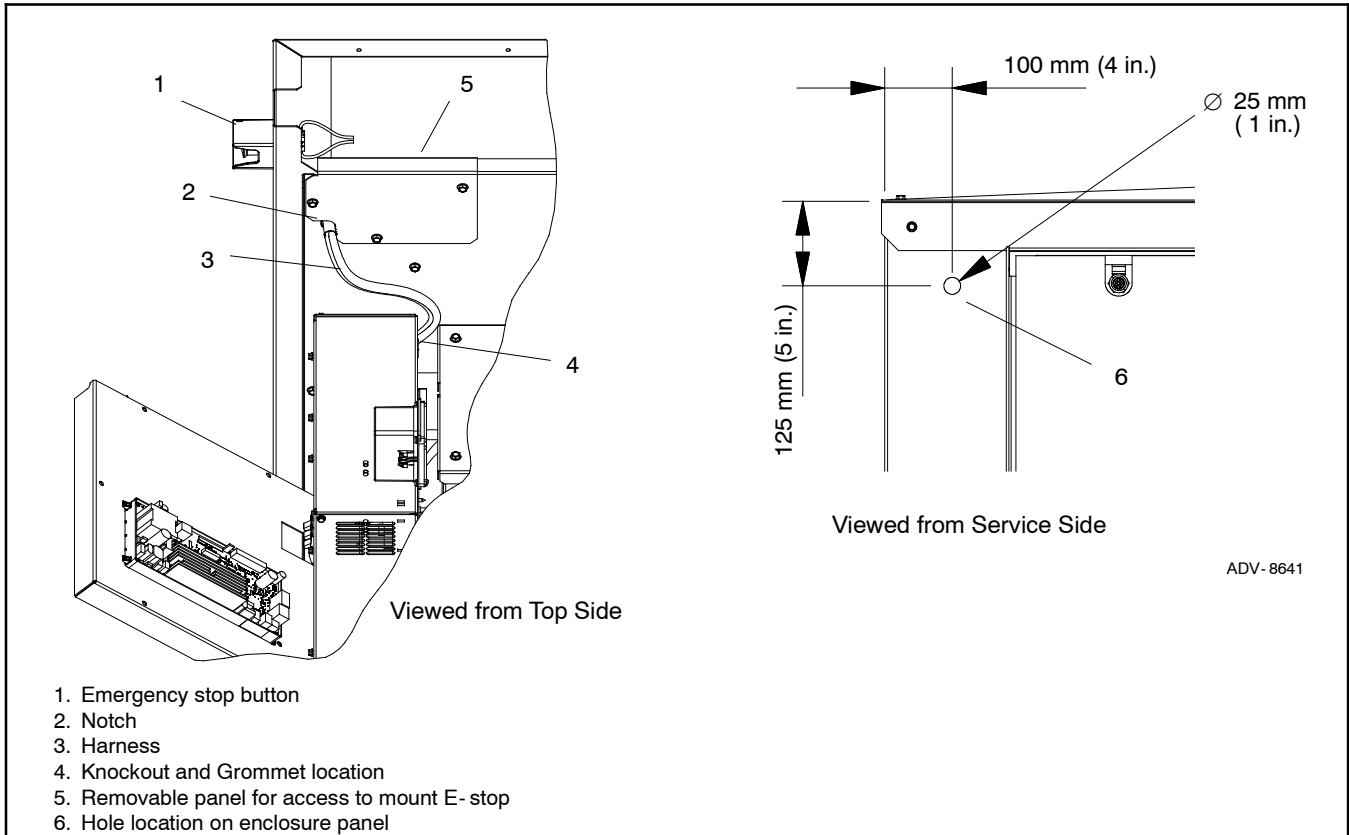
**Figure 5** Opening for E-stop Switch (viewed from outside)

**For RCL Models:**

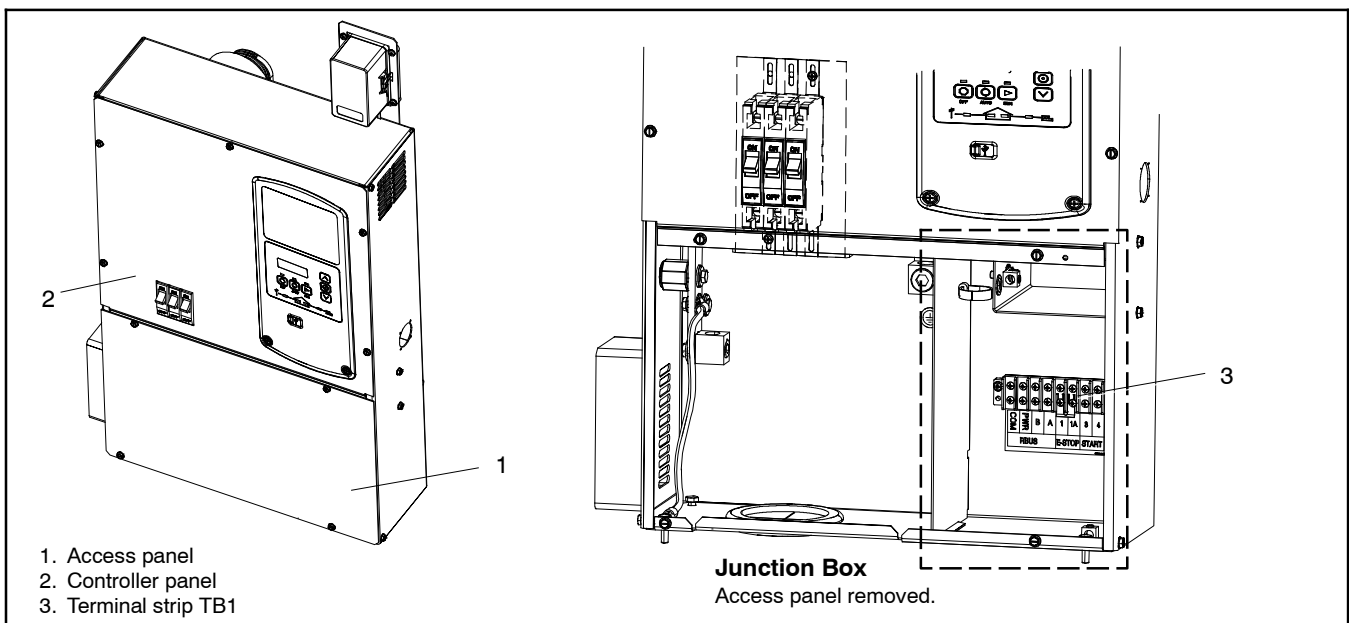
- 1.10 Using the enclosure locking tool provided with the generator set, open and remove the enclosure door on the service side of the generator set.
- 1.11 Press the OFF button on the generator set controller.
- 1.12 Disconnect the utility power that supplies the battery charger by opening the circuit breaker in the main distribution panel.
- 1.13 Disconnect the generator set engine starting battery(ies), negative (-) lead first.
- 1.14 Drill a 1 inch (25.4 mm) hole in enclosure panel. See Figure 6 for the hole location. Remove the burr from the hole fully to engage the locking nut smoothly.

**Note:** Clean up any metal chips and debris after drilling.

- 1.15 Being careful of the connections on the back of the controller, remove the upper panel and support it to avoid strain on the wiring. Do not disconnect the controller.
- 1.16 Remove the knockout from the back of the controller box for the connection harness.
- 1.17 Install the grommet, X-284-7, in the new opening in the back of the controller box. See Figure 6.
- 1.18 Remove the notched access panel inside the enclosure. See Figure 6 for the removable panel location.
- 1.19 Carefully route the harness through the knockout hole in the back of the controller box and up to the hole in the enclosure.
- 1.20 Reinstall the notched access panel inside the enclosure. Make sure that the harness is routed through the notch in the corner.



**Figure 6** E-stop Switch Location



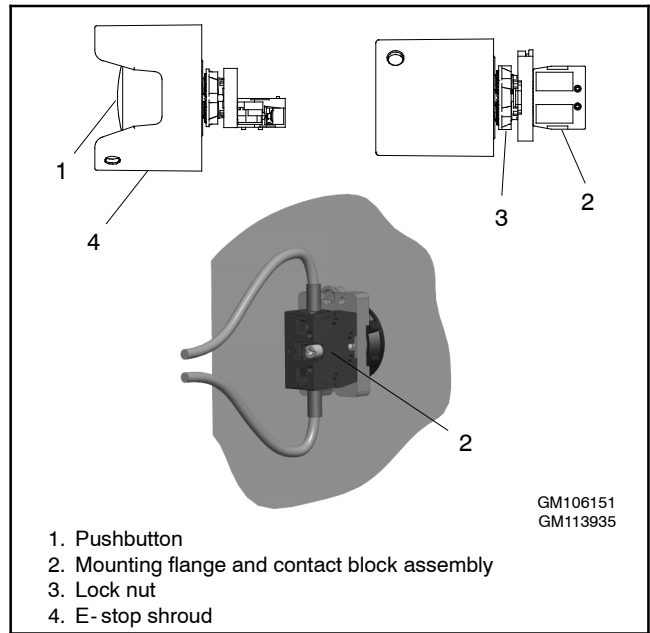
**Figure 7** E-stop Connections

**For All Models:**

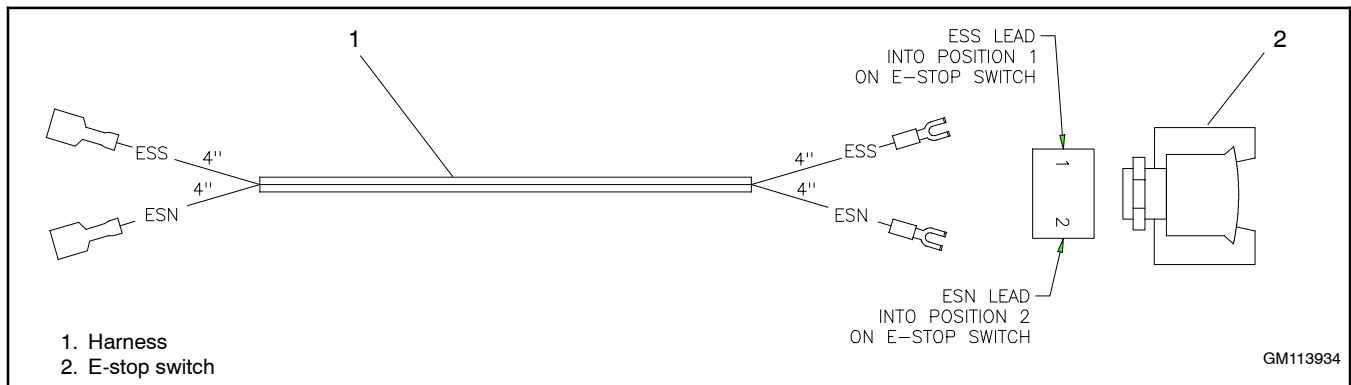
- 1.21 For ease of assembly, make sure that the E- stop push button is pulled out to the non-activated position.
- 1.22 If the pushbutton and mounting flange arrived assembled, carefully remove the mounting flange from the push button using flat screw driver. Insert the E-stop pushbutton through the opening from the outside of the genset enclosure. Secure the pushbutton and shroud to the genset enclosure using locking nut. See Figure 8.
- 1.23 Line up the mounting flange assembly on the inside of the genset and press the contact block onto to the button to snap the E-stop pushbutton and mounting flange together.

**Note:** Ensure the “Emergency Stop” text molded into the shroud is in the correct orientation as shown in Figure 2.

- 1.24 Connect harness leads ESS and ESN to the E- stop switch contact block as shown in Figure 9.



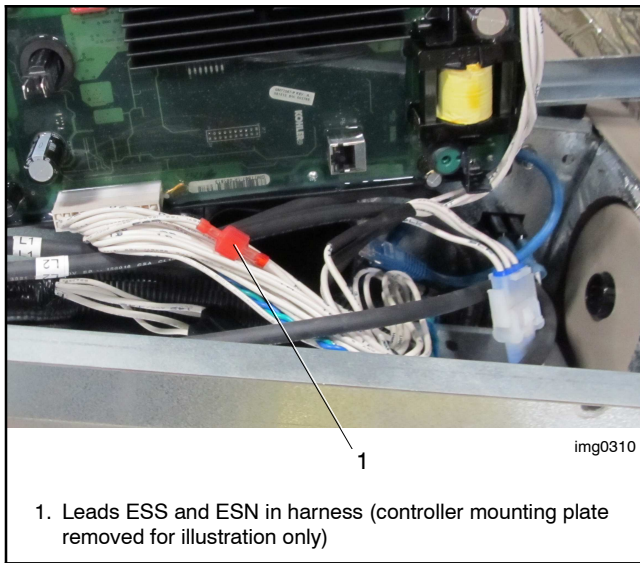
**Figure 8** E-Stop Switch Assembly



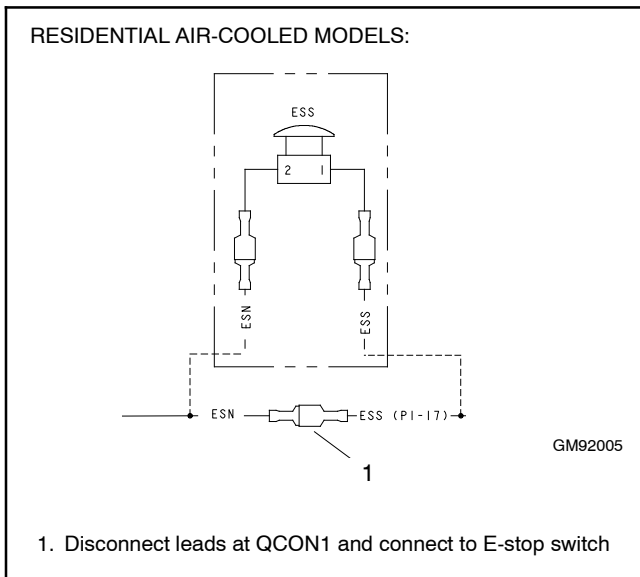
**Figure 9** E-Stop Harness Assembly GM113934 or GM115032 (for RCL models)

**1.25 For RCA, RESV, and RESA/RESC Models:**

- 1.25.1 Turn the controller over and locate E-stop leads ESS and ESN, which are connected together in the harness. See Figure 10. Disconnect leads ESS and ESN.
- 1.25.2 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 11.
- 1.25.3 Replace the controller and secure with two screws.



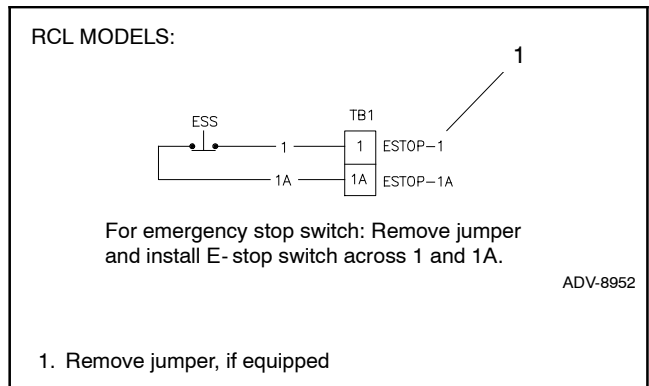
**Figure 10** ESS and ESN Leads in the Harness



**Figure 11** E-Stop Connection Diagram

**1.26 For RCL Models:**

- 1.26.1 Remove the access panel (below the controller) to access terminal strip TB1, terminal 1, and 1A for connection to E-stop harness. See Figure 7.
- 1.26.2 Remove the jumper across terminals 1 and 1A. See Figure 7 and Figure 12.
- 1.26.3 Connect lead ESS from the new E-stop harness to terminal TB1-1. Connect lead ESN from the new E-stop harness to terminal TB1-1A. See Figure 12.
- 1.26.4 Check for and clean up any debris in the controller box and circuit breaker area. Carefully reinstall the controller panel and the access panel on the junction box.



**Figure 12** E-Stop Connection Diagram

**For All Models:**

- 1.27 Check that the generator set controller is OFF.
- 1.28 Reconnect the generator set engine starting battery, negative (-) lead last.
- 1.29 Reconnect the utility power that supplies the battery charger by closing the circuit breaker in the main distribution panel.
- 1.30 Press the AUTO button on the generator set controller for automatic operation.
- 1.31 Close and lock the door/roof.

## 2. Emergency Stop Switch Operation

- 2.1 Push the red emergency stop button to stop the generator set. The generator set shuts down immediately and the controller displays Emerg Stop Shutdown. The generator set cannot be restarted until the emergency stop switch is reset.
- 2.2 To reset the generator set after an emergency stop:
  - 2.2.1 Pull out the emergency stop button.
  - 2.2.2 Open the enclosure roof to access the generator set controller. Press the OFF button on the controller to clear the shutdown condition.
- 2.3 Press the AUTO button for automatic generator set operation, if desired.

## 2.4 Lockout/Tagout:

The emergency stop button can be locked in the STOP position. Insert a lock through two openings in the yellow shroud to prevent the stop button from being pulled out. Remove the lock for normal operation. See Figure 13.

A lock is not required in order to keep the switch activated. The switch button will stay depressed until it is pulled out by the operator.

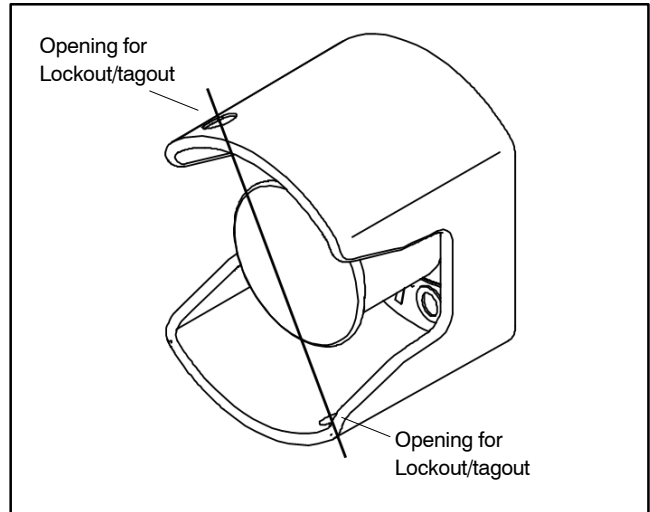


Figure 13 Lockout/Tagout Operation

## 3. Parts List

### Emergency Stop Kit

Kit: GM113935-KP1-QS		
Qty.	Description	Part Number
1	Harness Assembly, E-Stop	GM113934
1	Installation Instructions	TT-1795

Kit: GM113935-KP2-QS		
Qty.	Description	Part Number
1	Harness Assembly, E-Stop	GM115032
1	Grommet	X-284-7
1	Installation Instructions	TT-1795

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