

INSTALLATION INSTRUCTIONS

Original Issue Date: 12/16

Model: **KD Series Generator Sets with APM802 Controller**

Market: **Industrial**

Subject: **Remote Emergency Stop Kits, 11101000201-KP1**

Introduction

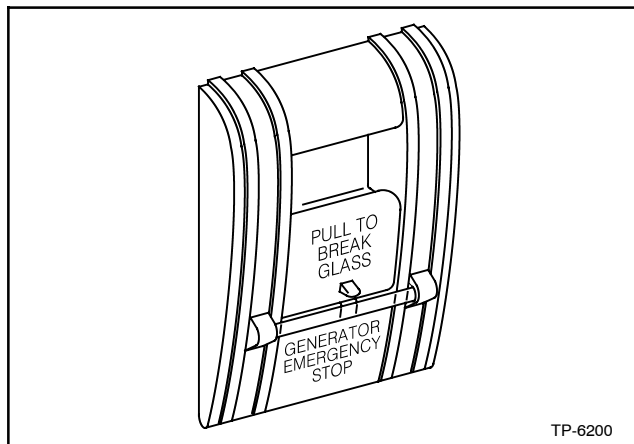


Figure 1 Remote Emergency Stop Switch

The emergency stop kit allows immediate shutdown of the generator set from a remote location. Mount the emergency stop switch(es) in a location easily accessible by operating personnel at a normal workstation. See Figure 1.

If the emergency stop switch is activated, the controller shuts down the unit, places the controller in **Out-of-Service** mode, and displays an Emergency Push Button Engaged Fault on the HMI. The generator set cannot be restarted until the emergency stop switch(es) is reset by replacing the glass piece and clearing the fault on the controller.

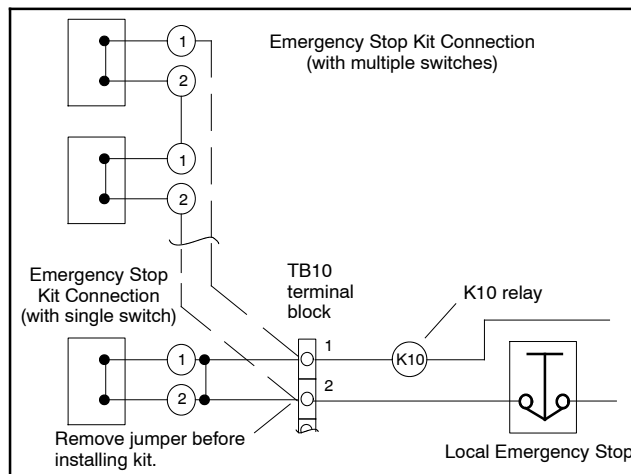
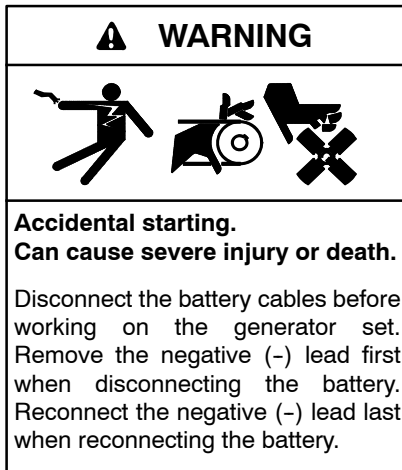


Figure 2 Terminal Block Connections

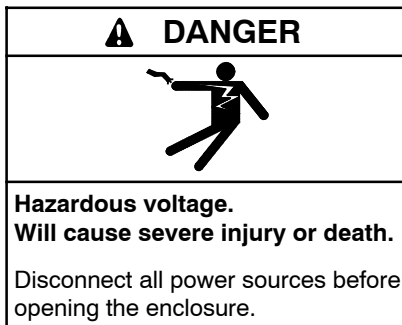
Connect as many emergency stop switches as required; however, connect multiple switches in *series* so the system functions correctly. The emergency stop switch is connected to terminal block 10, TB10-1 and 2. See Figure 2. Remove the jumper from terminals TB10-1 and 2 before installing the kit. When the emergency stop switch is activated, contacts in the switch open to deenergize the K10 relay and shut down the generator set.

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) Shut down the generator set. (2) Place the controller in Out of Service mode. (3) Press the emergency stop button. (4) Disconnect the power to the battery charger, if equipped. (5) 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

1. Before working on the generator set or connected equipment, disable the generator set. Refer to the safety precautions for preventing accidental starts and disabling the generator set.
 - a. Remove the load from the generator set.
 - b. Shut down the generator set.
 - c. Place the generator set controller into **Out-of-Service** mode and press the emergency stop button.
 - d. Disconnect the power to the battery charger.
 - e. Remove the battery cables negative (-) lead first to disable the generator set.
2. To access the terminal block, TB10, remove the eight screws from the lower compartment cover on the control panel. See Figure 3.
3. Remove jumper from terminals TB10-1 and 2.

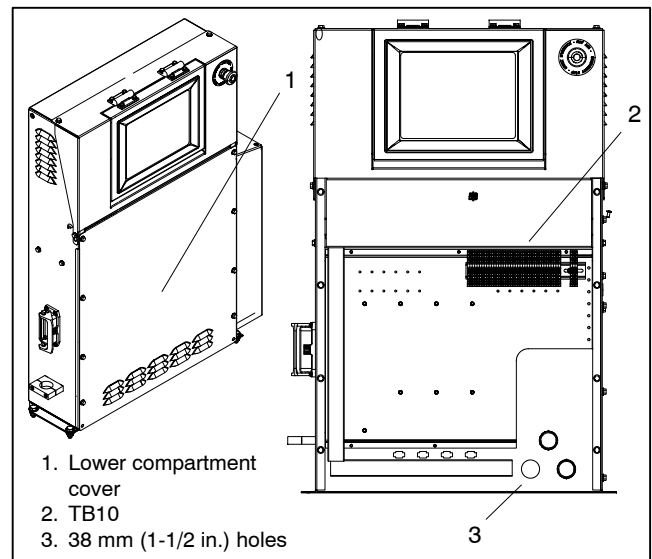


Figure 3 Lower Compartment Component Location

4. Verify that the emergency stop switch leads are from the normally closed contacts. Use an ohmmeter to perform the continuity test. Use tape to insulate the normally open contact leads as they will not be used.
5. Determine the approximate mounting location(s) for the emergency stop switch(es) and cut two lengths of 16-gauge (minimum) stranded wire long enough to connect the controller and switch(es). Strip one end of each wire length and connect to switch leads using wire nuts (not supplied). Connect the two white leads from the switch to the lead from terminal 1. Connect the two black leads from the switch to the lead from terminal 2.
6. Mount emergency stop switch(es) in desired location(s). Use #6 round head wood screws (not supplied). Use supplied machine screws when mounting in a single-gang electrical box.
7. Route the stranded wire through the 38 mm (1-1/2 in.) holes in the back of the control panel to the terminal strip, TB10. See Figure 3. Cut leads to length, strip the ends, and connect to terminals TB10-1 and 2. See Figure 2.
8. Position and secure the lower compartment cover.
9. Check that the generator set is in **Out-of-Service** mode.
10. Reconnect the generator set engine starting battery, negative (-) lead last.
11. Reconnect power to the battery charger.

Resetting Procedure

1. Replace glass rod on emergency stop switch (an extra piece of glass is supplied with each switch).
2. Reset the fault displayed on the controller human machine interface (HMI).
3. Place the generator set into Manual mode for local starting or to AUTO mode for startup by automatic transfer switch or remote start switch. Refer to the controller operation manual for controller operation instructions.

Parts List

Qty.	Description	Part Number
1	Switch, emergency stop	A-222654
2	Rod, glass*	222655
* Part of A-222654 emergency stop switch. One glass rod is installed on the switch and an additional replacement glass rod is located inside the switch. Additional glass rods are available as a service part.		

KOHLER CO., Kohler, Wisconsin 53044 USA
Phone 920-457-4441, Fax 920-459-1646
For the nearest sales and service outlet in the
US and Canada, phone 1-800-544-2444
KOHLERPower.com

Kohler Power Systems
Asia Pacific Headquarters
7 Jurong Pier Road
Singapore 619159
Phone (65) 6264-6422, Fax (65) 6264-6455

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator set distributor for availability.

© 2016 by Kohler Co. All rights reserved.