

INSTALLATION INSTRUCTIONS

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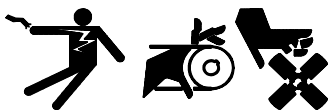
Model: 6-15ROY/ROZ with Decision-Maker™ 3 Controller

Market: Industrial

Subject: Field Flashing Service Kit 226969

The field flash service kit assures a positive generator flash at start-up on 6-15ROY/ROZ generator sets equipped with the Decision-Maker™ 3 controller. Observe the following safety precautions while installing the kit.

⚠ WARNING



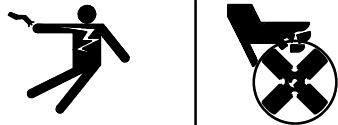
Accidental starting.
Can cause severe injury or death.

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

Disabling 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) Turn the generator set master switch to OFF position.
- 2) Disconnect power to battery charger.
- 3) Remove battery cables (remove negative (-) lead first). Reconnect negative (-) lead last when reconnecting battery. Follow these precautions to prevent starting of generator set by an automatic transfer switch or remote start/stop switch.

⚠ WARNING



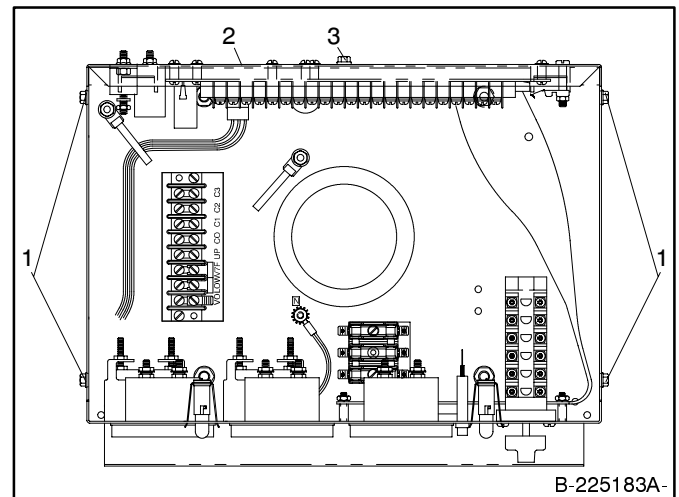
Hazardous voltage. Moving rotor.
Can cause severe injury or death.

Operate generator set only with all guards and electrical enclosures in place.

Grounding generator set. Hazardous voltage can cause severe injury or death. Electrocutation is possible whenever electricity is present. Open main circuit breakers of all power sources before servicing equipment. Configure the installation to electrically ground the generator set and electrical circuits when in use. Never contact electrical leads or appliances when standing in water or on wet ground, as the chance of electrocution increases under such conditions.

Installation

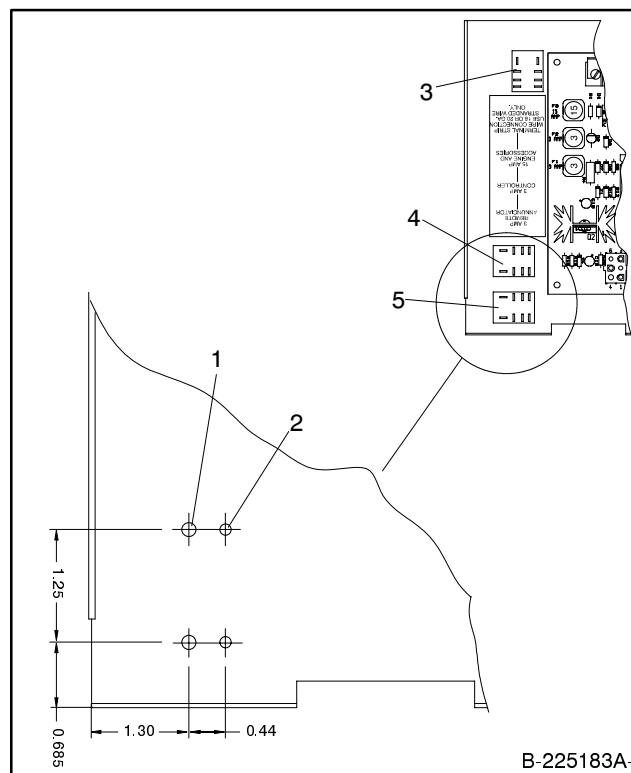
1. Place the generator set master switch in the OFF position.
2. Disconnect the power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Remove the four screws securing the controller cover to the controller and remove the cover.
5. Remove the controller back panel mounting screw and lay the controller back panel flat. See Figure 1.



1. Controller cover mounting screws
2. Controller back panel
3. Back panel mounting screw

Figure 1. Controller—Top View

6. Drill four holes in the controller back panel for the relay installation. See Figure 2 for the mounting hole locations and sizes. Debur the holes and clean all the metal shavings from the area.
7. Secure the K2 (241736) and K3 (241950) relays to the controller back panel using 6-32 nuts (X-6210-3). See Figure 2 for the mounting locations.
8. Disconnect the leads connected to the existing K1 or K5 relay.
9. Wire the three relays as shown in Figure 3. Identify leads that do not have identification stamps (i.e. FN, FP, 70) by measuring the length of the lead. See the Parts List for specific quantities of the measured leads.
10. Secure the controller back panel to the controller assembly with screw removed in step 5.
11. Reinstall the controller cover. Secure the cover to the sides with the four screws removed in step 4.
12. Check that the generator master switch is in the OFF position.
13. Reconnect the generator set engine starting battery, negative (-) lead last.
14. Reconnect the power to the battery charger, if equipped.
15. Test the relay wiring. Connect a DC voltmeter across leads FP and FN. Crank generator set and verify that the DC voltmeter shows battery voltage. If the voltmeter does not show battery voltage during cranking, check relay wiring. If the voltmeter shows battery voltage the relays have been installed correctly.



1. 0.165 in. diameter mounting holes
2. 0.156 in. diameter mounting holes
3. K1 or K5 relay (existing)
4. K2 relay (241736)
5. K3 relay (241950)

Figure 2. Relay Mounting Locations

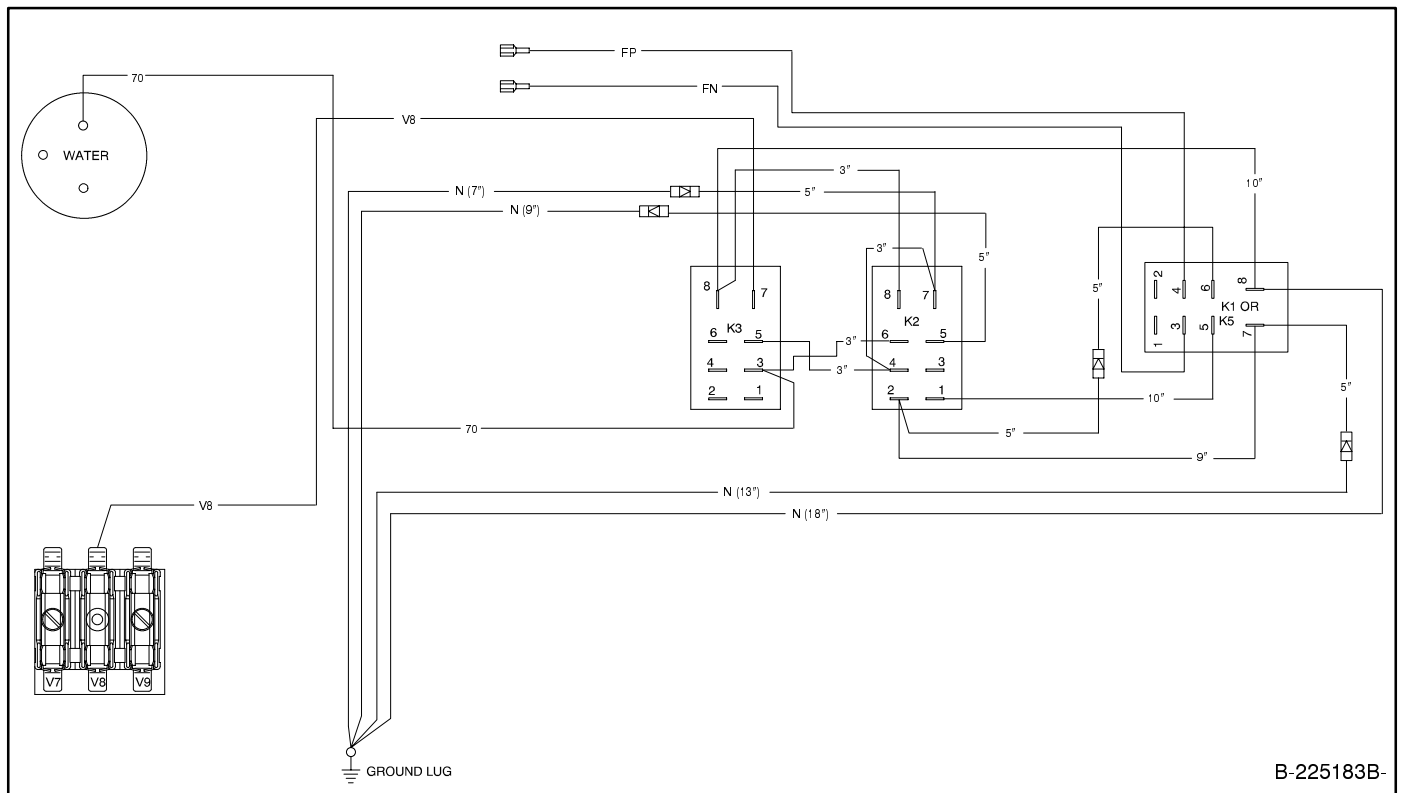


Figure 3. Wiring Diagram

Field Flashing Service Kit

Parts List		
Kit: 226969		
Qty.	Description	Part Number
2	Nut, 6-32	X-6210-3
4	Diode	233959
1	Relay, 12V DC	241736
1	Relay, 120V AC	241950
1	Lead, N, 13 in. (330.20 mm)	SWON-1813-5714
1	Lead, N, 7 in. (177.80 mm)	SWON-1807-5714
1	Lead, N, 9 in. (228.60 mm)	SWON-1809-5714
1	Lead, N, 18 in. (457.20 mm)	SWON-1818-10014
1	Lead, FP	SWFP-1837-9156
1	Lead, FN	SWFN-1837-9156
1	Lead, V8	SWV8-1812-9756
1	Lead, 70	SW70-1817-5614
5	Lead, 5 in. (127 mm)	LW-1805-5756
4	Lead, 3 in. (76.20 mm)	LW-1803-10056
2	Lead, 10 in. (254 mm)	LW-1810-5656
1	Lead, 9 in. (228.60 mm)	LW-1809-100100