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## INSTALLATION INSTRUCTIONS

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Original Issue Date: 10/95  
Model: 230-300 kW  
Market: Industrial  
Subject: Wiring Harness Kit 347161



**Accidental starting.**  
**Can cause severe injury or death.**

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

**Accidental starting can cause severe injury or death.** Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator set. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

**Hazardous voltage can cause severe injury or death.** Whenever electricity is present, there is the hazard of electrocution. Open main circuit breaker on all power sources before servicing equipment. Electrically ground the generator set and electrical circuits when in use. Never come into contact with electrical leads or appliances when standing in water or on wet ground, as the chance of electrocution is increased under such conditions.

**Hazardous voltage can cause severe injury or death.** Disconnect generator set from load by opening line circuit breaker or by disconnecting generator set output leads from transfer switch and heavily taping ends of leads. If high voltage is transferred to load during test, personal injury and equipment damage may result. Do not use the safeguard circuit breaker in place of the line circuit breaker.

### **WARNING**



**Hot engine and exhaust system.**  
**Can cause severe injury or death.**

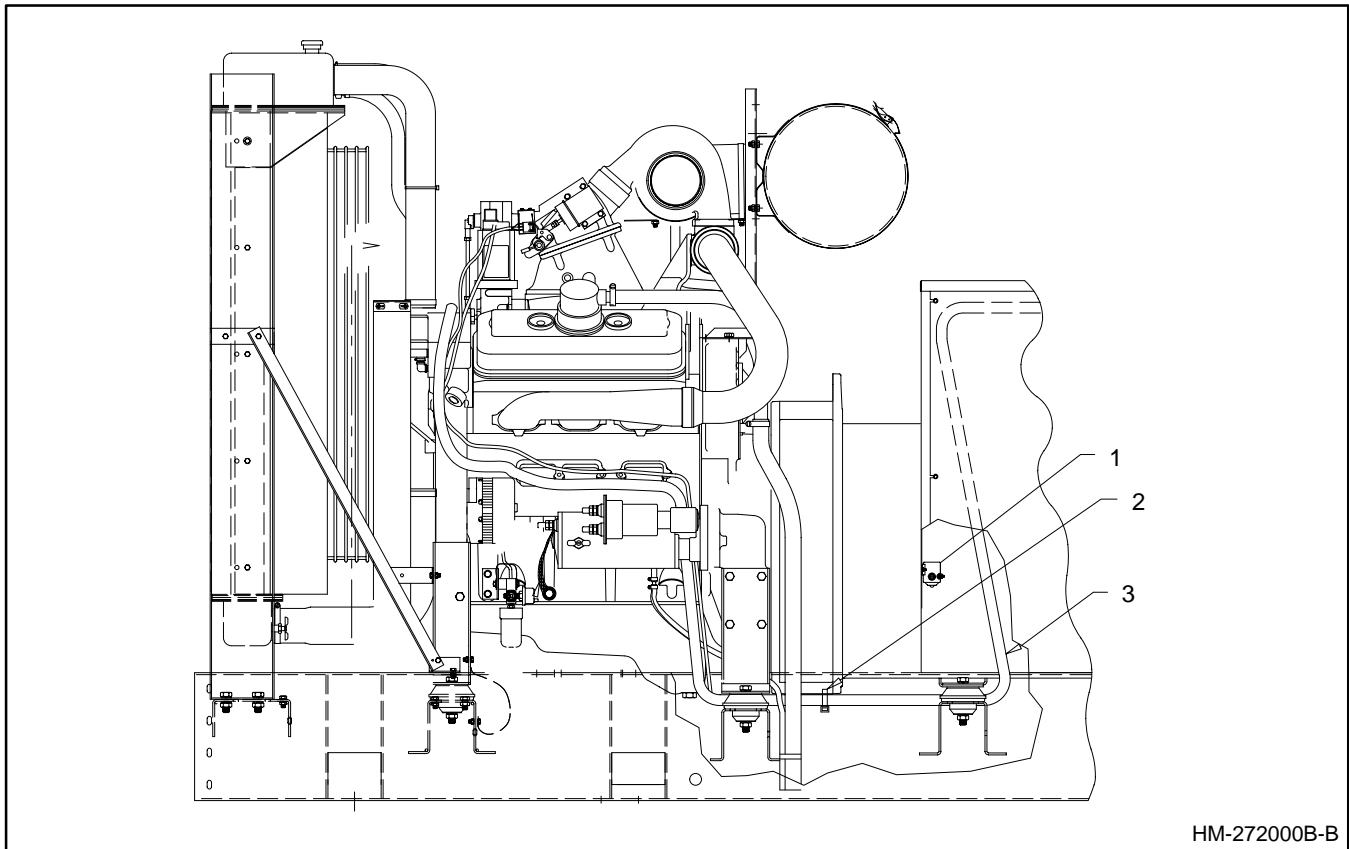
Do not work on generator set until it is allowed to cool.

**Hot parts can cause severe injury or death.** Do not touch hot engine parts. An engine gets hot while running and exhaust system components get extremely hot.

# Installation

1. Turn the generator set master switch to OFF. Disconnect the generator set engine starting battery, negative (-) lead first.
2. Disconnect leads connected to the starter solenoid.
3. Remove starter solenoid from junction box and relocate it to the same position inside the junction box. See Figure 1.
4. Install engine wiring harness according to appropriate wiring diagram in generator wiring diagrams book. Refer to Figure 1 for location and routing of wiring harness.
5. Locate wiring harness leads that were not used. Tape lead ends and secure them to the harness to avoid electrical damage.
6. Reconnect generator set starting battery, negative (-) lead last. Verify that the generator set starts/stops and operates according to the controller features of the generator set operation manual or switchgear literature if so equipped. If generator set operation is not correct, immediately shut down generator set and disconnect engine starting battery, negative (-) lead first. Consult wiring diagram and verify lead connections.

Use cable ties as necessary to protect and secure wiring harness from exhaust components and moving parts.



1. Starter solenoid
2. Cable tie

3. Engine wiring harness (328046)

**Figure 1. Wiring Harness Routing**

Engine Wiring Harness Kit Parts List		
KIT 347161		
Qty.	Description	Part Number
1	Harness, wiring	328046
1	Tie, cable	298776