

SERVICE BULLETIN

Original Issue Date: 4/12

Model: **40/45REZG and 40/45ERES (GM 4.3 L Engine)**

Market: **Industrial and Residential/Commercial**

Subject: **Coolant Sensor Grounding**

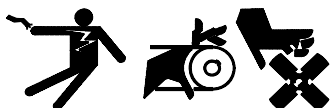
Introduction

This service bulletin addresses 40/45REZG and 40/45ERES generator sets with serial numbers between 2322607 and 3034129. Generator sets built during this period may experience coolant temperature warning and shutdown faults attributed to the coolant sensor not having a proper ground to the engine block. This bulletin provides instructions on how to provide a sufficient electrical ground to the coolant sensor.

This procedure should be done at the next scheduled maintenance.

Safety Precautions



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.

 WARNING

Hot engine and exhaust system. Can cause severe injury or death.
Do not work on the generator set until it cools.

Parts Required (Technician-Supplied)

- Insulated (white or black), stranded wire, 16 ga., 305 mm (12 in.)
- Ring terminal, 16 ga., 1/4 in. hole
- Ring terminal, 16 ga. #8 hole
- Pan head screw, #8-32 x 1/4 in.

Service Procedure

1. Remove the generator set from service.

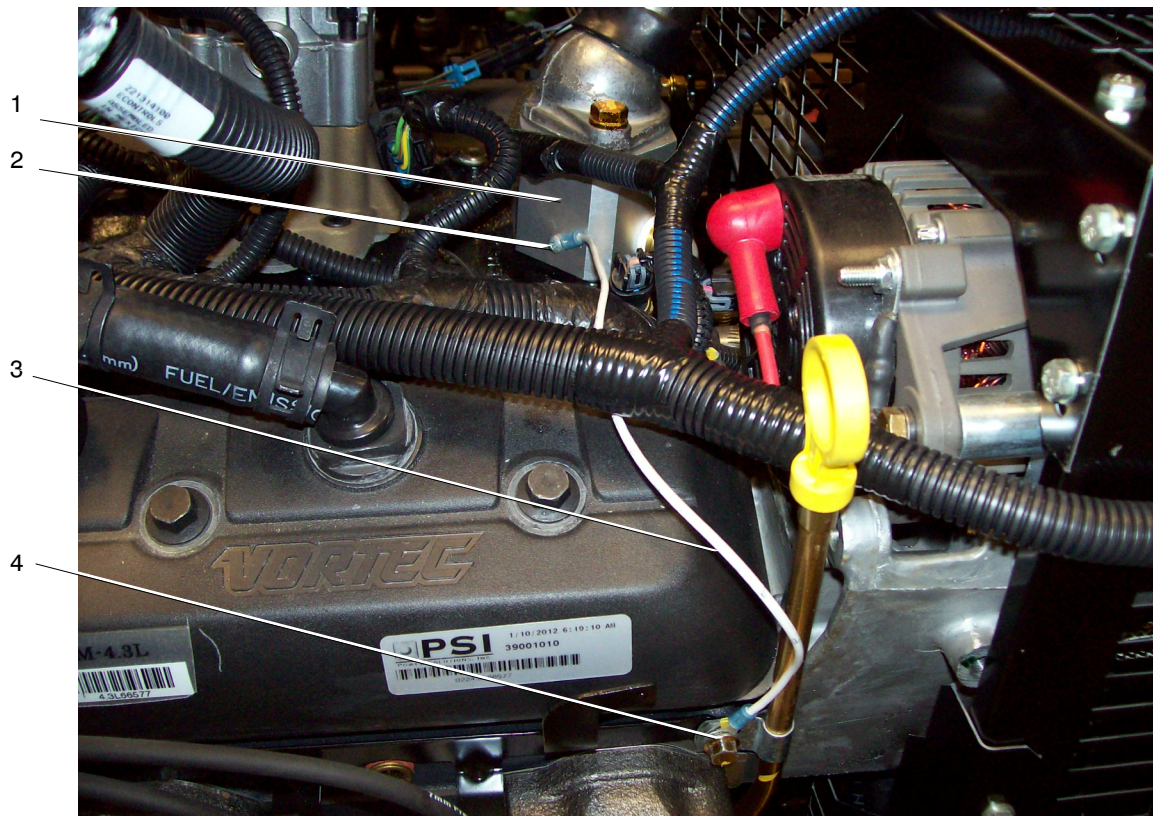
- 1.1 Place the generator set master switch to the OFF/RESET position (Decision-Maker® 3+ and 550).

OR

Press the generator set master control OFF/RESET button (Decision-Maker® 3000 or 6000).

- 1.2 Disconnect the power to the battery charger, if equipped.
- 1.3 Disconnect the generator set engine starting battery(ies), negative (-) lead first.

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1. Coolant sensor
2. Pan head screw, #8-32
3. Ground wire, 16 ga.
4. Oil dipstick tube clamp and bolt

Figure 1 Coolant Sensor Ground Wire

2. Fabricate the ground wire (technician-supplied components)

- 2.1 Strip both ends of the insulated wire.
- 2.2 Crimp the ring terminal with 1/4 in. hole to one end and crimp the ring terminal with the #8 hole to the other end of the insulated wire.

3. Install the ground wire to the engine. Refer to Figure 1.

- 3.1 Remove the bolt securing the oil dipstick tube, place the 1/4 in. ring terminal on the bolt, and reinstall the bolt.
- 3.2 Use a #8-32 screw (technician-supplied) to attach the #8 ring terminal to the coolant sensor.

4. Restore the generator set to service.

- 4.1 Place the generator set master switch to the OFF/RESET position (Decision-Maker® 3+ and 550 only).
- 4.2 Reconnect the generator set engine starting battery(ies), negative (-) lead first.
- 4.3 Reconnect the power to the battery charger, if equipped.

Warranty Claim Information

A flat rate of 0.25 hours will be allowed for this update.

A field update has been released in the warranty system to assist in filing a warranty claim.

Note: No travel time or mileage will be allowed since this update is done during a routine scheduled maintenance visit.

This unit warranty claim update will expire on December 31, 2012.