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04.11	RVXX1101	1(7)

Engine Harness Ground Feedback

SAFETY RECALL INFORMATION:

Volvo Trucks North America (Volvo), has decided that a defect relating to motor vehicle safety exists in certain Volvo, VNL model Vehicles.

There exists the potential for the vehicle to crank without warning because of an unintended path to ground that exists. This can occur when either the negative battery cable is disconnected at the battery/fusible link or if the fusible link opens as a result of a short circuit. This presents a risk of injury with non-operational conditions such as when the vehicle is being serviced.

VEHICLES AFFECTED:

Certain VNL model vehicles manufactured by Volvo between March 23, 2010 and December 22, 2010.

VEHICLE IDENTIFICATION NUMBERS (VIN):

There are 1,847 vehicles affected by this recall.

Required Parts

To facilitate in the identification of the correct part number and repair for a give vehicle, a suffix has been added to the Recall Number. For example RVXX1101A, RVXX1101B, and RVXX1101C.

RVXX1101A Repair "A"

1- 21669355 Harness with Over Crank Protection
Truck built between January 4, 2010 and December 10, 2010:

RVXX1101B Repair "B"

1- 21676190 Harness with Over Crank Protection
Truck built between December 13, 2010 and December 22, 2010:

RVXX1101C Repair "C"

1- 21676192 Harness without Over Crank Protection
Truck built between January 4, 2010 and December 22, 2010:

Repair Procedure

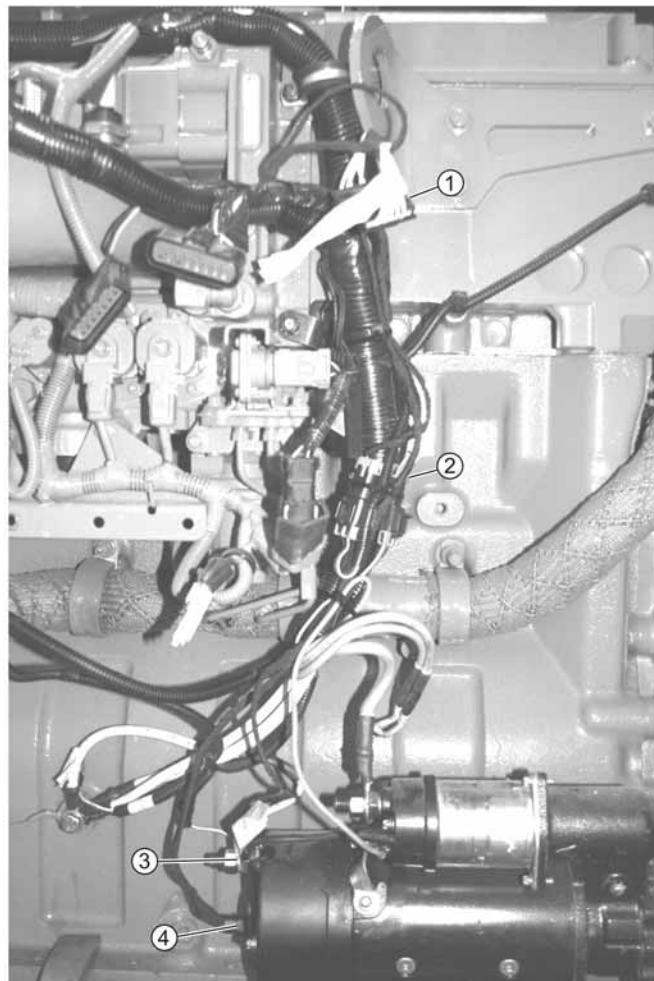
Repair A



Before working on a vehicle, set the parking brake, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

1. Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.
2. Disconnect both the battery cables.
IMPORTANT NOTE! The POSITIVE BATTERY CABLE MUST BE DISCONNECTED FIRST! Removing the negative cable first will result in unintended engine cranking.
3. Locate and disconnect the front chassis engine interface (FCEN) connector on the left hand side of the engine. Insert the six way connectors of jumper harness PN 21669355 into the FCEN connectors. See photo position 1.

NOTE: The photo is for reference only, the location of the connector may vary through the build dates.



- | | |
|------------------------|------------------------|
| 1) FCEN Connector | 2) ENOCP Connector |
| 3) Starter Ground stud | 4) Start OCP Connector |

4. Locate the engine over crank protection (ENOCP) connector on the left hand side of the engine and remove the existing female connector fold back and tie. Insert the ENOCP female connector of the new jumper harness.
5. Locate the over crank protection (OCP) connector at the rear of the starter. Remove the existing male connector fold back and tie. Insert the OCP male connector of the new jumper harness on the rear of the starter.
6. Remove the nut securing the ground connections on the rear of the starter and install the ring terminal of the jumper harness. Torque ground stud nut to 30.5 ± 3.5 Nm (22.5 ± 2.6 ft-lb).
7. Secure harness with cable ties as needed.
8. Reconnect all previously removed cables to the battery terminals, then switch the main disconnect switch to the ON position.
9. Check starter operation

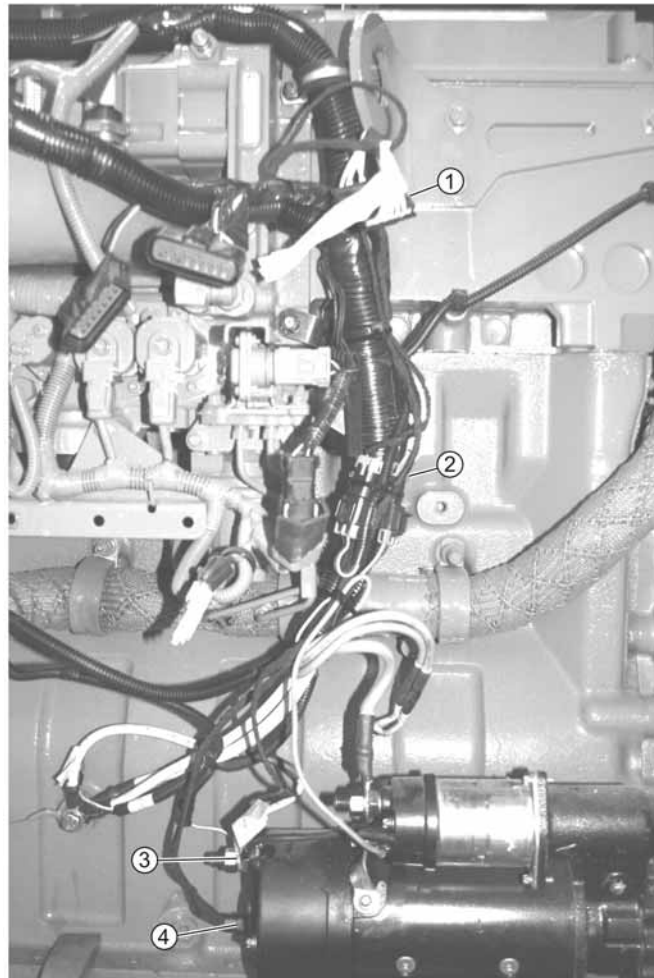
Repair B

DANGER

Before working on a vehicle, set the parking brake, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

1. Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.
2. Disconnect both the battery cables.
IMPORTANT NOTE! The POSITIVE BATTERY CABLE MUST BE DISCONNECTED FIRST! Removing the negative cable first will result in unintended engine cranking.
3. Locate and disconnect the front chassis engine interface (FCEN) connector on the left hand side of the engine. Insert the four way connectors of jumper harness PN 21676190 into the FCEN connectors. See photo position 1.

NOTE: The photo is for reference only, the location of the connector may vary through the build dates.



- | | |
|------------------------|------------------------|
| 1) FCEN Connector | 2) ENOCP Connector |
| 3) Starter Ground stud | 4) Start OCP Connector |

4. Locate the engine over crank protection (ENOCP) connector on the left hand side of the engine and remove the existing female connector fold back and tie. Insert the ENOCP female connector of the new jumper harness.
5. Locate the over crank protection (OCP) connector at the rear of the starter. Remove the existing male connector fold back and tie. Insert the OCP male connector of the new jumper harness on the rear of the starter.
6. Remove the nut securing the ground connections on the rear of the starter and install the ring terminal of the jumper harness. Torque ground stud nut to 30.5 ± 3.5 Nm (22.5 ± 2.6 ft-lb).
7. Secure harness with cable ties as needed.
8. Reconnect all previously removed cables to the battery terminals, then switch the main disconnect switch to the ON position.
9. Check starter operation

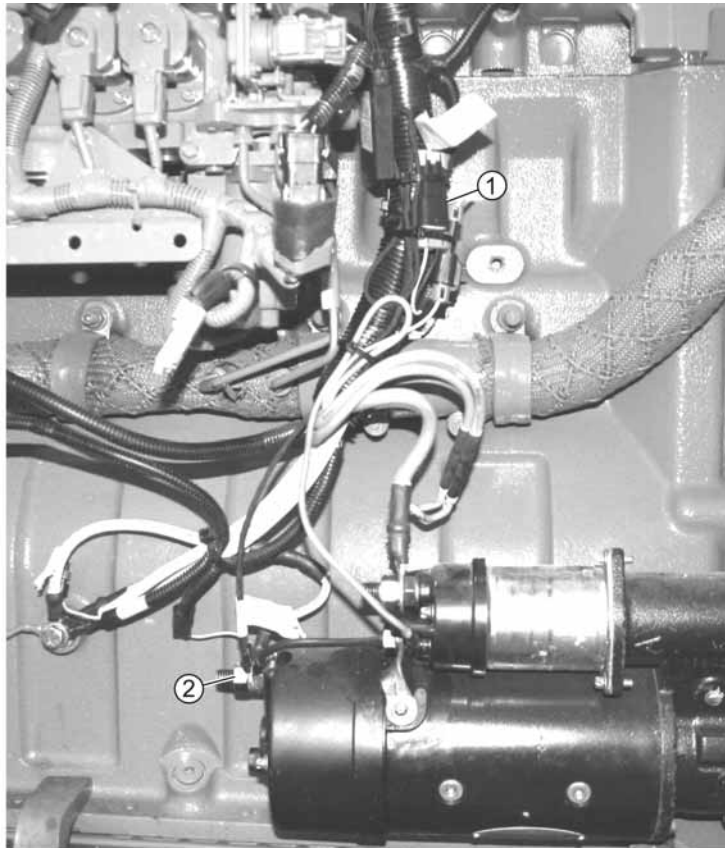
Repair C



Before working on a vehicle, set the parking brake, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

1. Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.
2. Disconnect both the battery cables.
IMPORTANT NOTE! The POSITIVE BATTERY CABLE MUST BE DISCONNECTED FIRST! Removing the negative cable first will result in unintended engine cranking.
3. Locate the engine over crank protection (ENOC) connector on the left hand side of the engine and remove the plug from the connector and insert the ENOC connector of the new jumper harness PN 21676192. See photo position 1.

NOTE: The photo is for reference only, the location of the connector may vary through the build dates.



1) OCP Connector

2) Starter Ground stud

4. Remove the nut securing the ground connections on the rear of the starter and install the ring terminal of the jumper harness. Torque ground stud nut to 30.5 ±3.5 Nm (22.5 ±2.6 ft-lb).

5. Secure harness with cable ties as needed.
6. Reconnect all previously removed cables to the battery terminals, then switch the main disconnect switch to the ON position.
7. Check starter operation

Reimbursement

This repair is covered by an authorized Safety Recall campaign. Reimbursement is obtained through the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	R
Vehicle repaired per instructions	2-Modified per instructions
Labor Code	
Primary Labor Code RVXX1101A	37308-0-01 0.5 hr., Time allowed to install jumper harness per recall RVXX1101A.
Primary Labor Code RVXX1101B	37308-0-02 0.5 hr., Time allowed to install jumper harness per recall RVXX1101B.
Primary Labor Code RVXX1101C	37308-0-03 0.4 hr., Time allowed to install jumper harness per recall RVXX1101C.
Time to take charge of vehicle and determine campaign status	17003-0-01 - 0.3 hr.
Causal Part	21454964
Authorization No.	RVXX1101A, RVXX1101B, RVXX1101C

The Primary Labor Codes shown above are stand alone (i.e.: only one of the three can be applied to the claim along with Take Charge, if applicable).

Take-charge time is not included in the labor code for this operation. Take charge may be eligible, but can only be used once per vehicle repair visit. If the vehicle is having other warranty repairs performed, take-charge should be charged to the warranty repair, otherwise take-charge can be charged to this Safety Recall campaign.

NOTE: Dealers are to perform Safety Recall Campaigns on all subject vehicles at no charge to the vehicle owner regardless of mileage, age of vehicle or ownership (original purchaser or subsequent purchasers). Whenever vehicles are subject to a safety recall are brought to your dealership for service, or taken into your dealership vehicle inventory, it is strongly recommended that every effort be made to perform the recall correction before the vehicle is sold or released to the owner.