

S A F E T Y R E C A L L

SUBJECT:	186 MDT Starter Cable
DATE:	1-13-2013
BULLETIN NO.:	RCB-003-12
CAMPAIGN NO.:	A8310
AFFECTED MODELS:	2011 and 2012 MY NE8J, NJ8J, NV8J Conventional Hino Trucks equipped with a J08 engine series

Important: Verify on the Hino DCS Warranty System that the vehicle needs to have this work performed.

CONDITION:

The main B+ circuit from the battery to the starter could potentially short to ground due to wear that accumulates over time, potentially resulting in a fire. The wear is the result of interference between the B+ circuit and the convoluted tubing.

SUBJECT VEHICLES:

2011 through 2012 model year NE8J, NJ8J, NV8J Conventional Hino Trucks equipped with a J08 engine series. These trucks were assembled at the Williamstown, WV assembly plant.

BEFORE YOU BEGIN:

Read and understand all instructions and procedures before you begin. Read and observe all Notes, Cautions and Warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid damage to components, serious personal injury, or both.

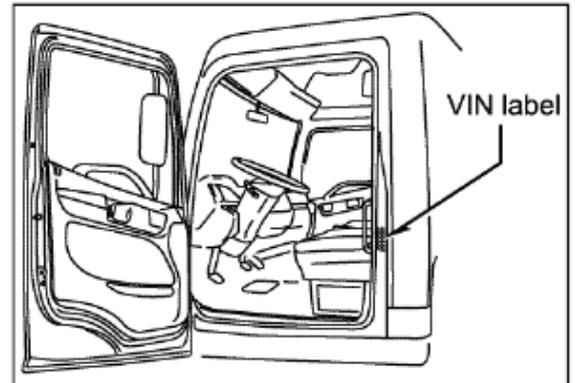
!!! WARNING !!!

- Park the vehicle on a level and solid surface and apply the parking brake.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.
- Prior to performing this campaign, allow the engine and exhaust to cool down to prevent any accidental burns.

SAFETY RECALL

Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



PARTS:

PART MATRIX/APPLICATION CHART:

NOTE: Verify Application and note Kit Part Number from chart below

Old Starter Cable Part Number	New Starter Cable Part Number	Application	Kit Part Number
82122E0J80	82122E1670	J08 Engine Equipped With Standard Chassis / GR27	04002047E0
82122E0J90	82122E1680	J08 Engine Equipped With Standard Chassis / GR31	04002048E0
82122E0K00	82122E1690	J08 Engine Equipped With Clean Chassis	04002049E0

NOTE. Contents of specific Parts Kits.

Kit Part Number	Kit Component Description	Quantity
04002047E0	1 Starter Cable(82122E1670) 2 Steel Clamps(SN23103001) 2 Plastic Tie Straps(S478371230)	1 Kit Required As Per VIN
04002048E0	1 Starter Cable(82122E1680) 2 Steel Clamps(SN23103001) 2 Plastic Tie Straps(S478371230)	
04002049E0	1 Starter Cable(82122E1690) 2 Steel Clamps(SN23103001) 2 Plastic Tie Straps(S478371230)	

SAFETY RECALL

VEHICLE PREPERATION:

1. Park the truck on level ground.

2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.



4. Chock all of the wheels

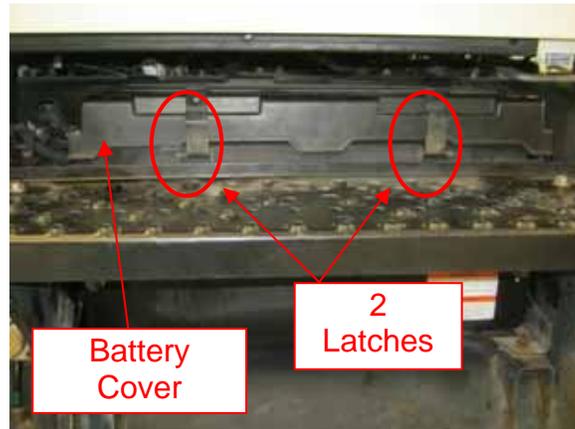


SAFETY RECALL

REPAIR PROCEDURE:

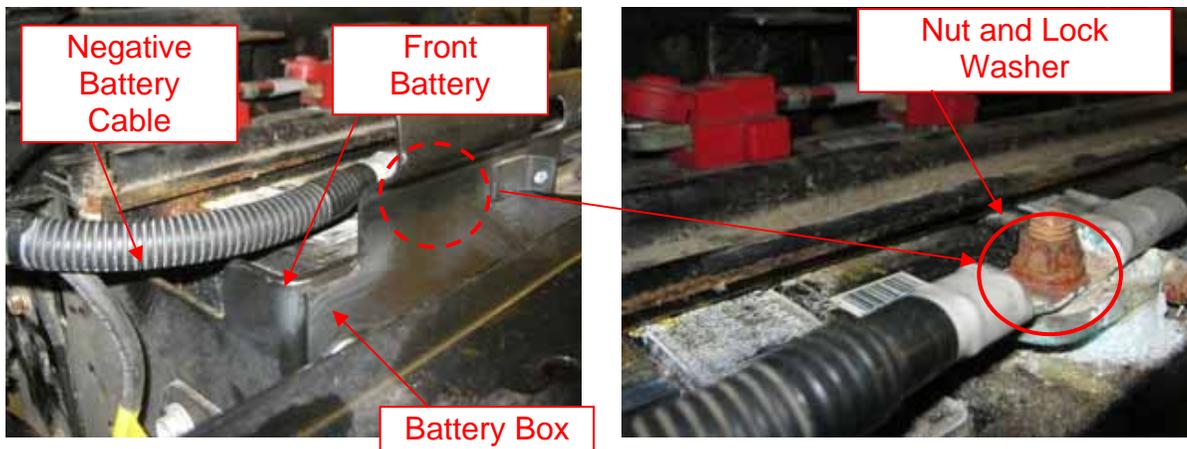
Starter Cable Removal (*Standard Chassis*):

1. Release the two (2) latches securing the battery cover and then remove the battery cover.



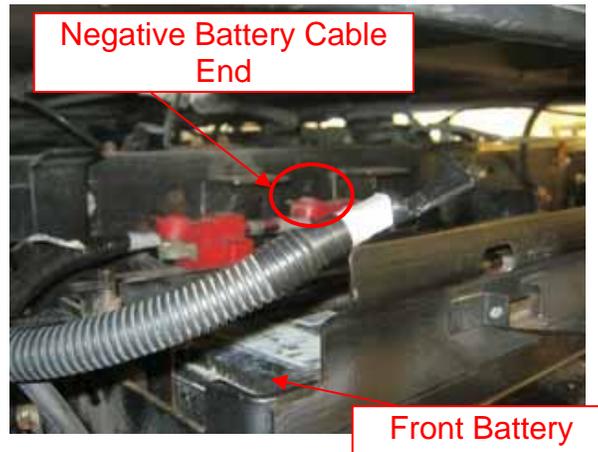
2. Remove the nut and lock washer securing the negative battery cable to the negative battery terminal on the front battery.

CAUTION: After the key has been placed to the lock position, make certain that 10 minutes has passed before disconnecting the battery. This will prevent any erroneous Diagnostic Trouble Codes (DTC's) from setting in the DPR or SCR systems.

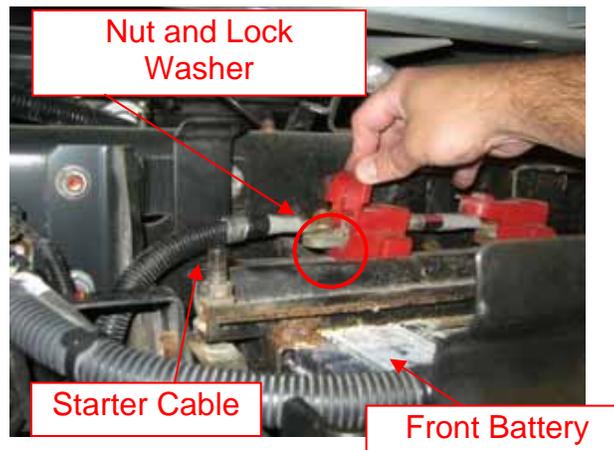


SAFETY RECALL

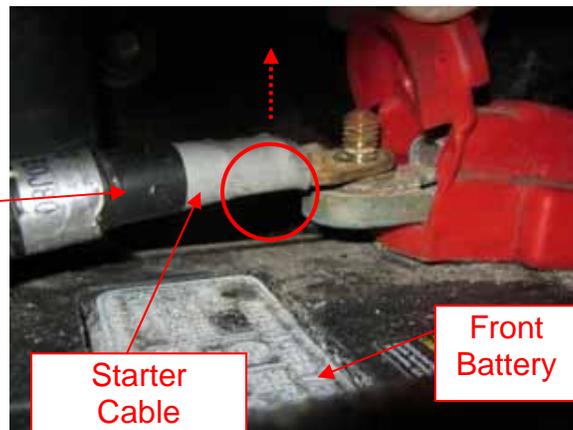
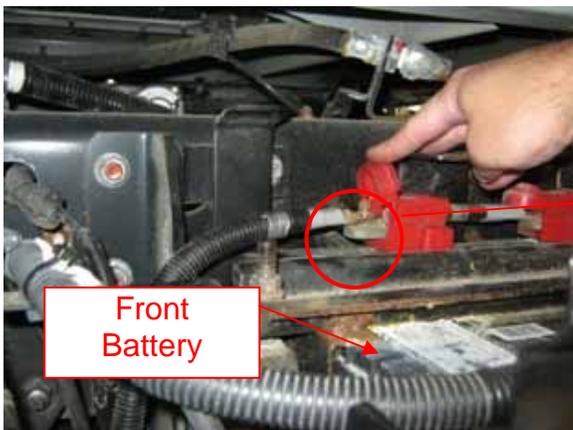
3. Disconnect the negative battery cable from the negative terminal of the front battery and then cover the exposed negative battery cable end with vinyl electrical tape to prevent any accidental short circuit.



4. Remove the nut and lock washer securing the starter cable to the positive battery terminal on the front battery.

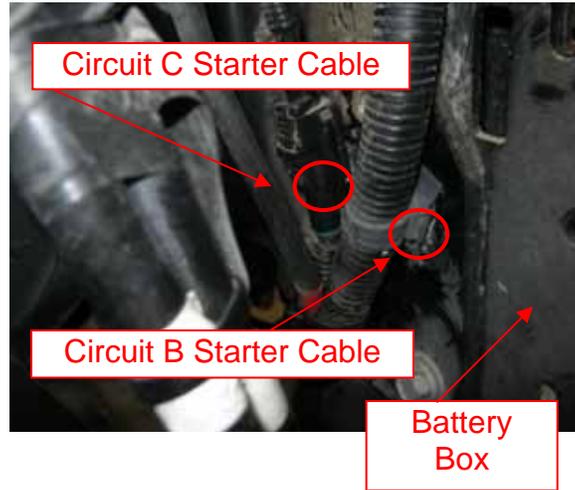


5. Disconnect the starter cable from the positive terminal of the front battery.



SAFETY RECALL

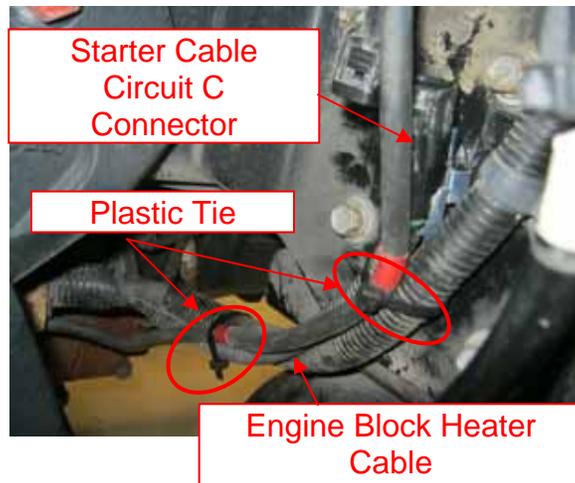
6. Cut the 2 plastic clips that secure both the circuit B starter cable and the circuit C starter cable to the battery box.



7. Disconnect the starter cable circuit C connector.

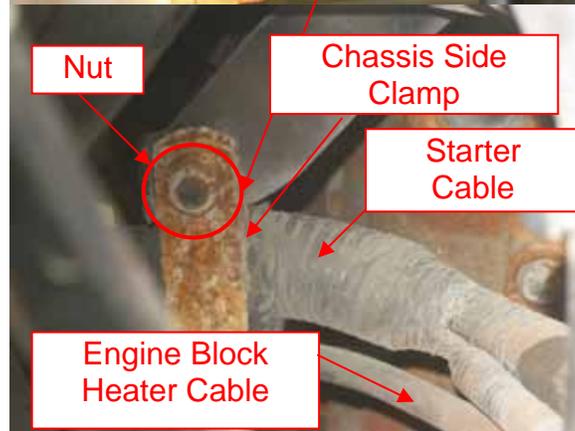
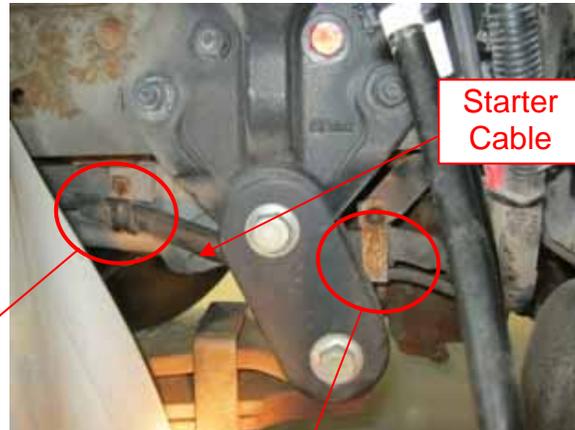
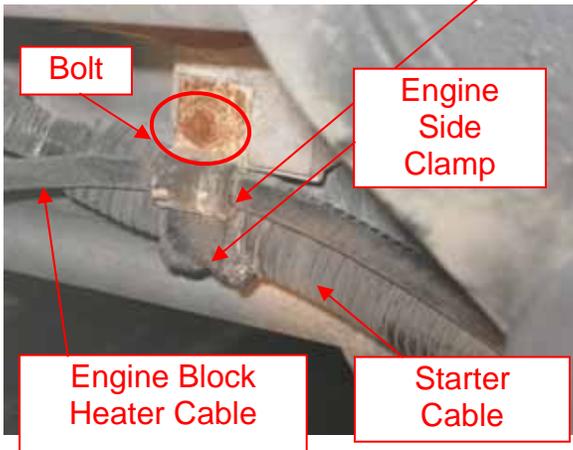


8. If the vehicle is equipped with an engine block heater cable, cut the 2 plastic tie straps that secure the engine block heater cable to the starter cable and discard the tie strap.



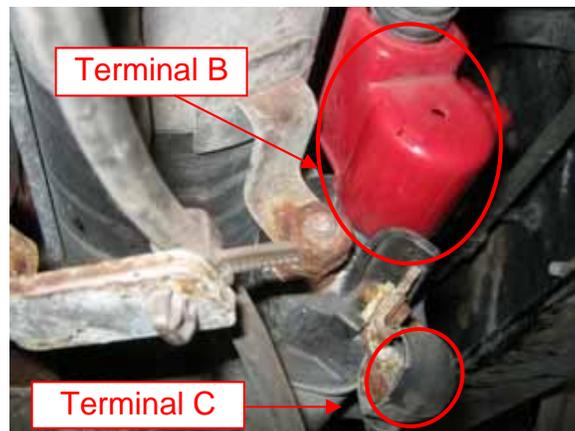
SAFETY RECALL

9. Locate the starter cable just below the inboard edge of the driver side frame rail. Remove the bolt securing the engine side starter cable steel clamp and then the nut securing the chassis side starter cable steel clamp.



10. Remove the protective caps from terminal B and terminal C, located on the starter.

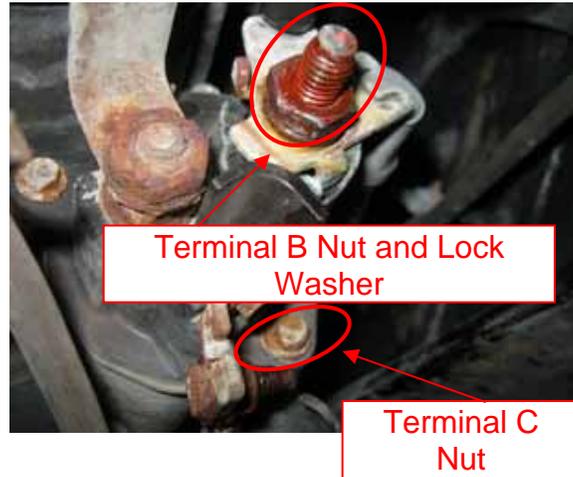
NOTE: Care should be taken not to damage the terminal B red plastic cap. This cap will be reused.



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11. Remove the terminal B nut with lock washer and terminal C nut on the starter and retain for later use. Remove the starter cable from the truck and discard.

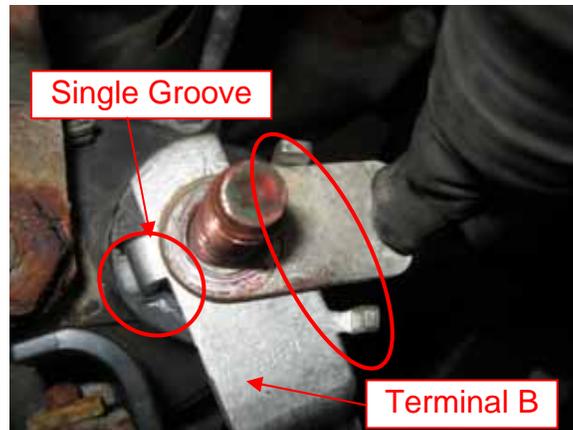
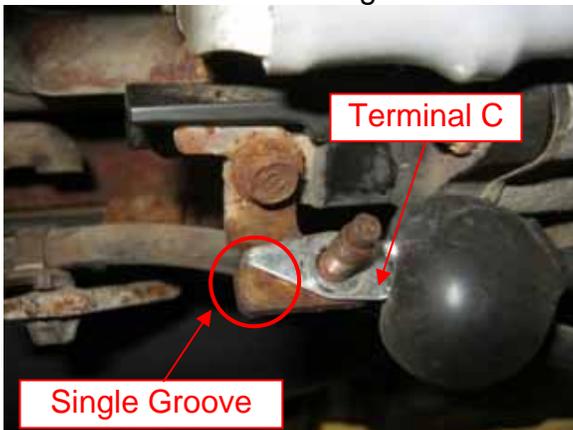
CAUTION: Use extreme care in removing nuts from starter studs, use rust penetrant as needed. Power tools or air tools should NOT be used during removal of the terminal B and C nuts.



NOTE: Do not discard the terminal C nut, terminal B nut and terminal B lock washer. These will be reused during starter cable installation.

Starter Cable Installation

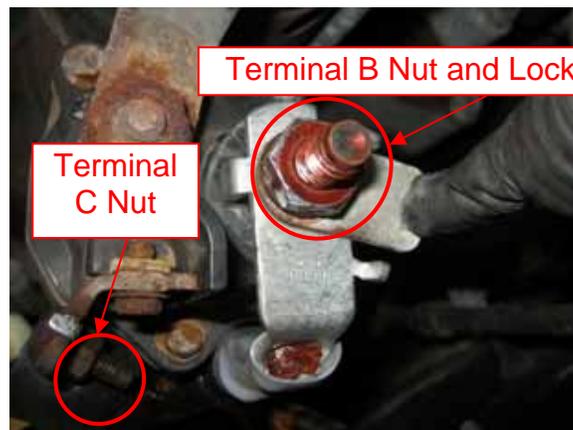
1. Using the new starter cable from the kit, align starter cable terminal B and terminal C into the grooves on the starter.



2. Install the lock washer and nut on terminal B and install the nut on terminal C. Torque both nuts to the specified torque.

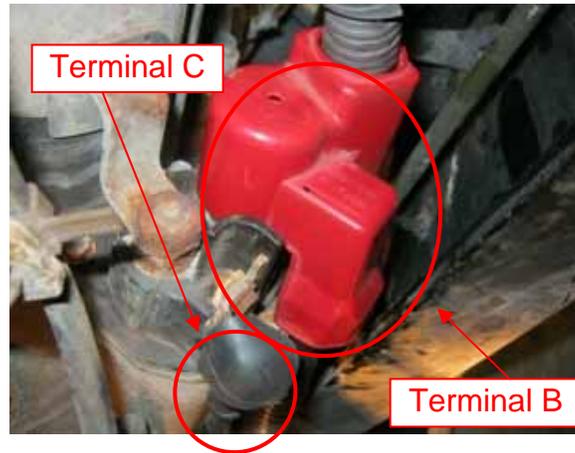
Specified Torque

Terminal B Nut: 15.5 lb-ft (21.1Nm)
Terminal C Nut: 1.8 lb-ft (2.5 Nm)

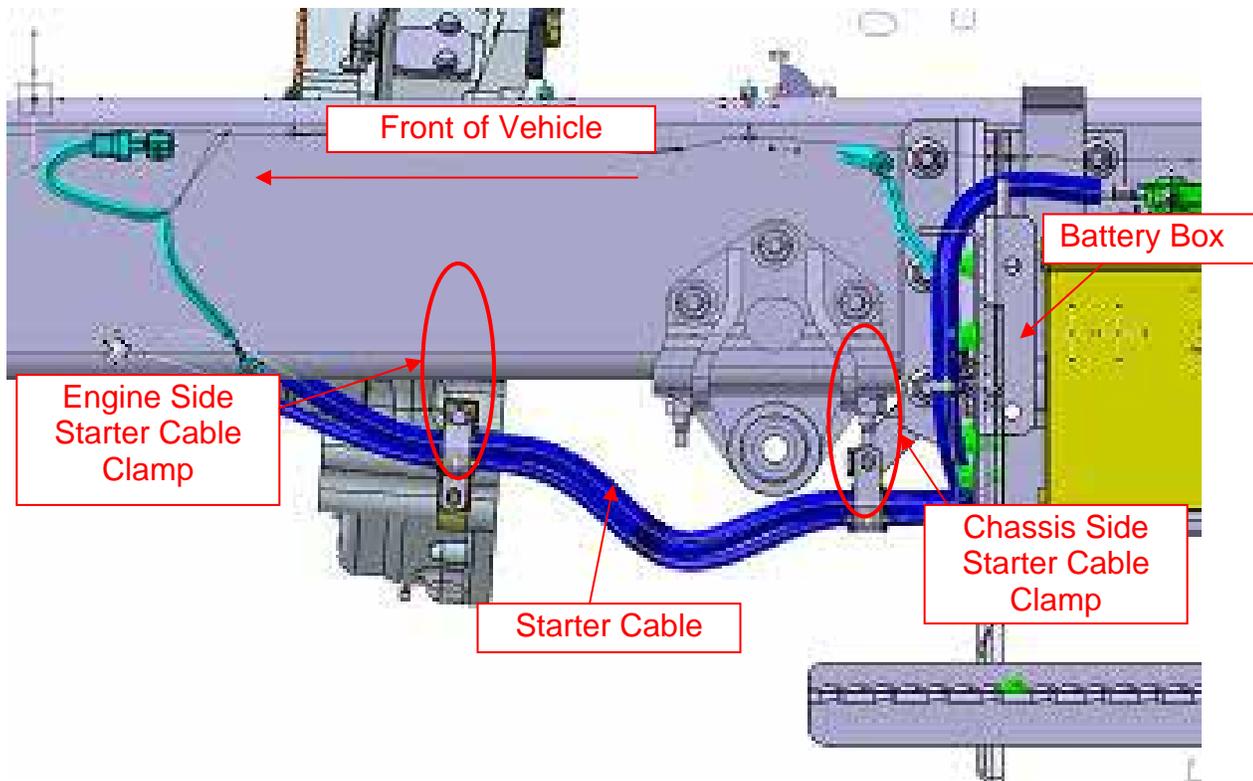


SAFETY RECALL

3. Install terminal B and terminal C protective caps onto the starter.



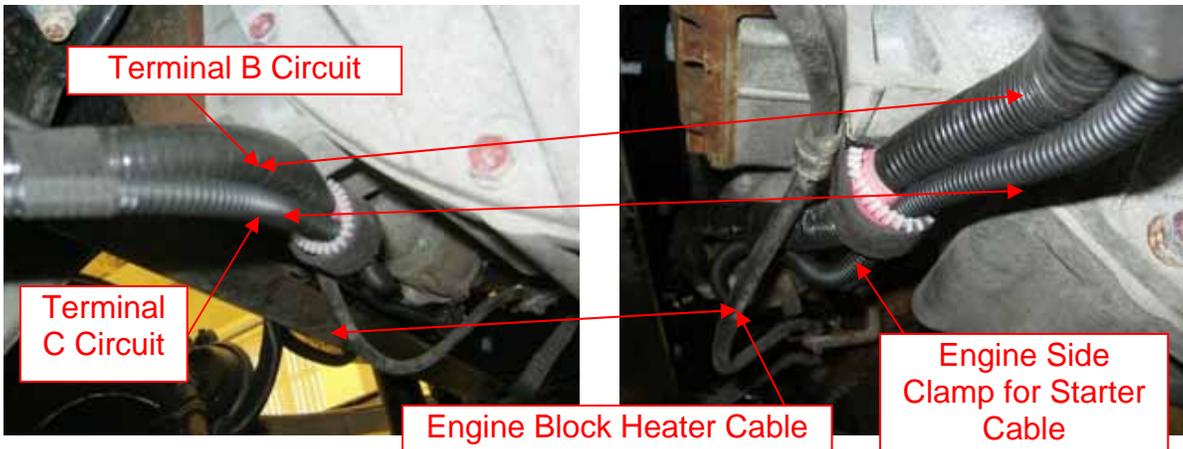
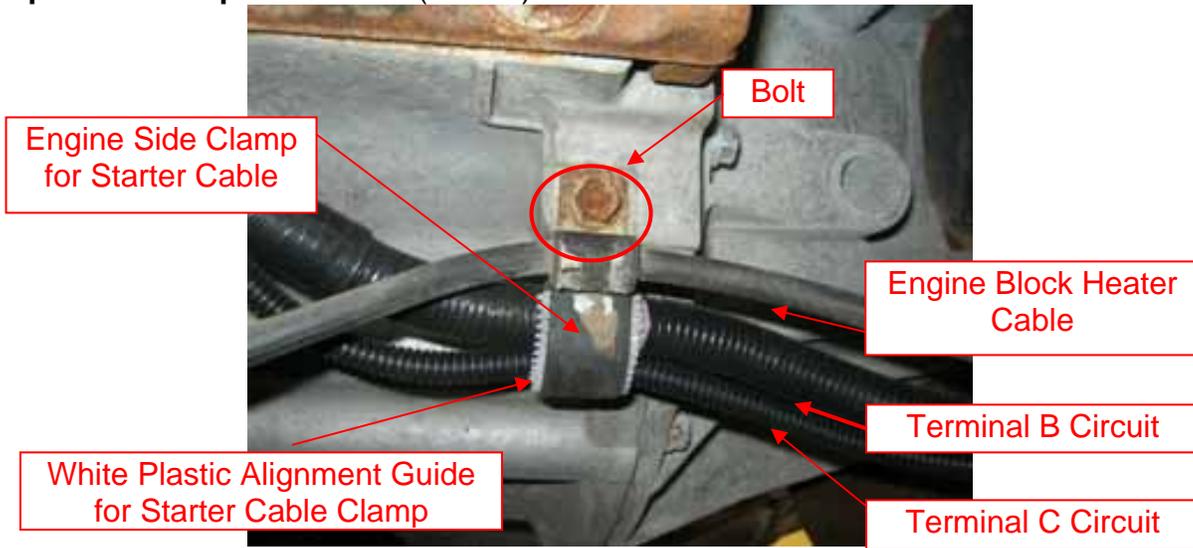
4. Route the new starter cable in the same orientation as the old cable prior to removal.



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- Using the new steel clamp provided in the kit, install the clamp around the white plastic alignment guide on the starter cable. When installing, make certain the larger diameter cable (terminal B circuit) is in the upper most position and the smaller diameter cable (terminal C circuit) is in the lower position within the steel clamp. Install the starter cable and clamp onto the engine side mounting bracket. If the vehicle is equipped with an engine block heater cable, also install this harness clamp onto the engine side mounting bracket. Install the bolt and torque to the specified torque.

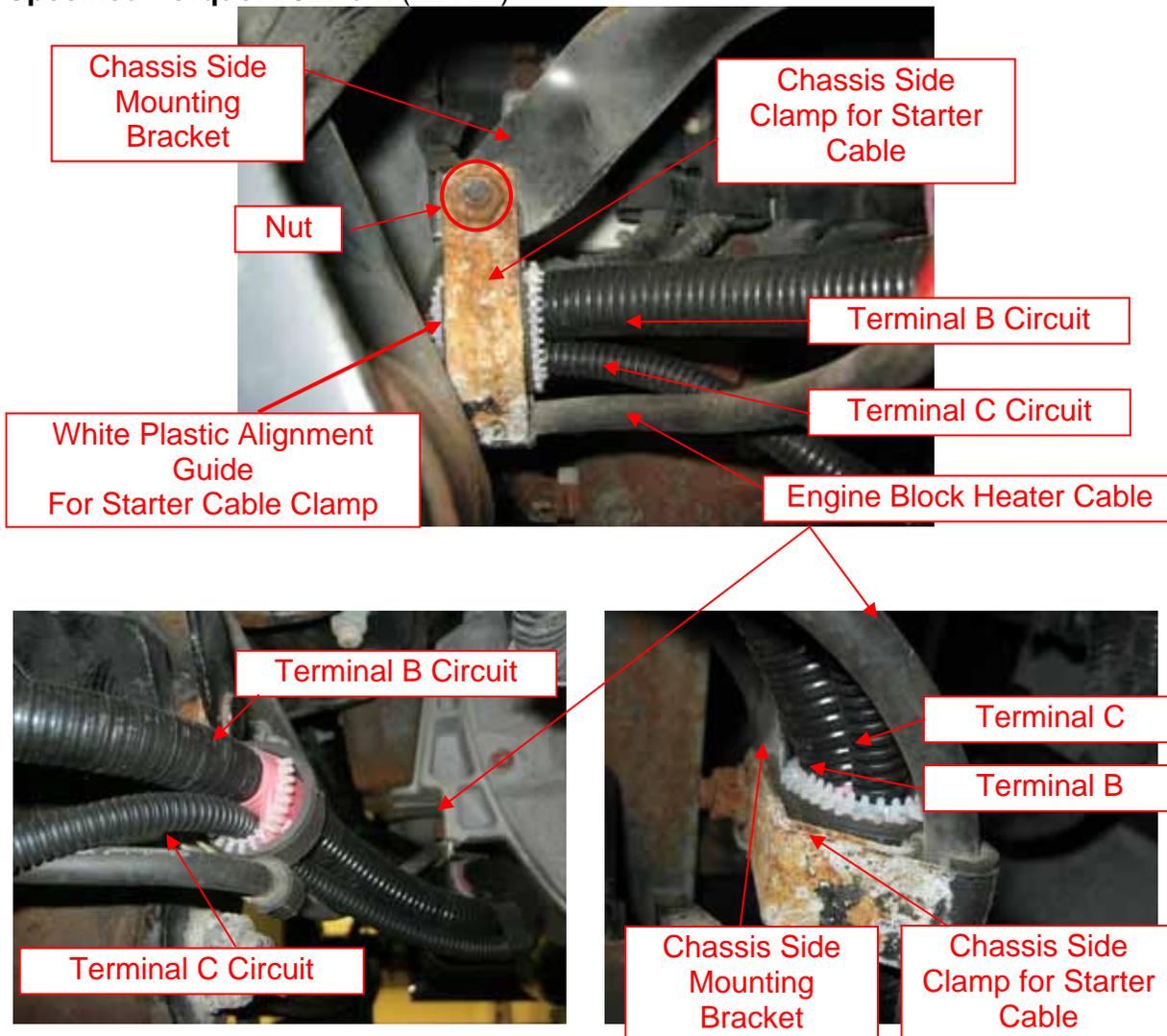
Specified Torque: 16.2 lb-ft (22 Nm)



S A F E T Y R E C A L L

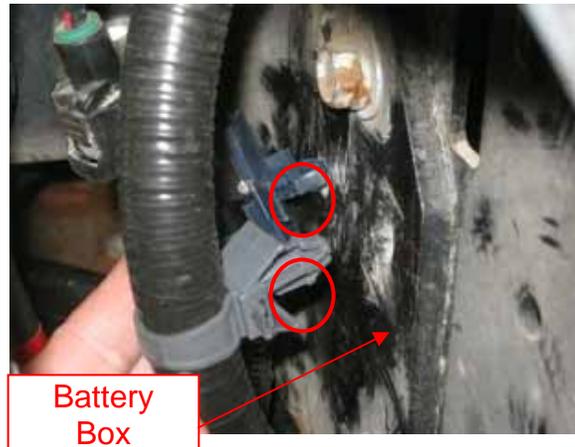
6. Using the new steel clamp provided in the kit, install the clamp around the white plastic alignment guide on the starter cable. When installing, make certain the larger diameter cable (terminal B circuit) is in the upper most position and the smaller diameter cable (terminal C circuit) is in the lower position within the steel clamp. Install the starter cable and clamp onto the chassis side mounting bracket. If the vehicle is equipped with a block heater cable, also install this harness clamp onto the chassis side mounting bracket. Install the nut and torque to the specified torque.

Specified Torque: 16.2 lb-ft (22 Nm)

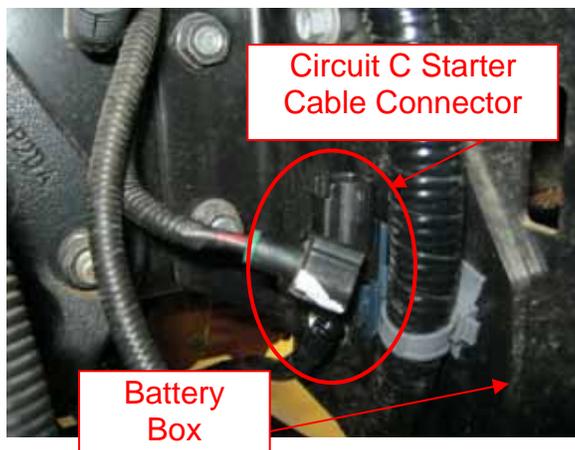


SAFETY RECALL

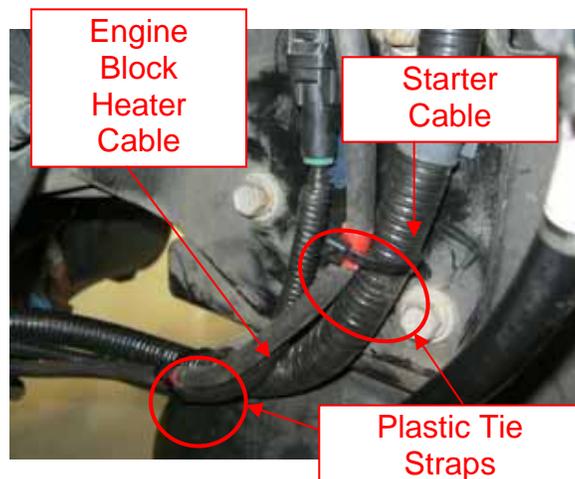
7. Connect the 2 plastic starter cable clips to the battery box.



8. Connect circuit C starter cable connector.

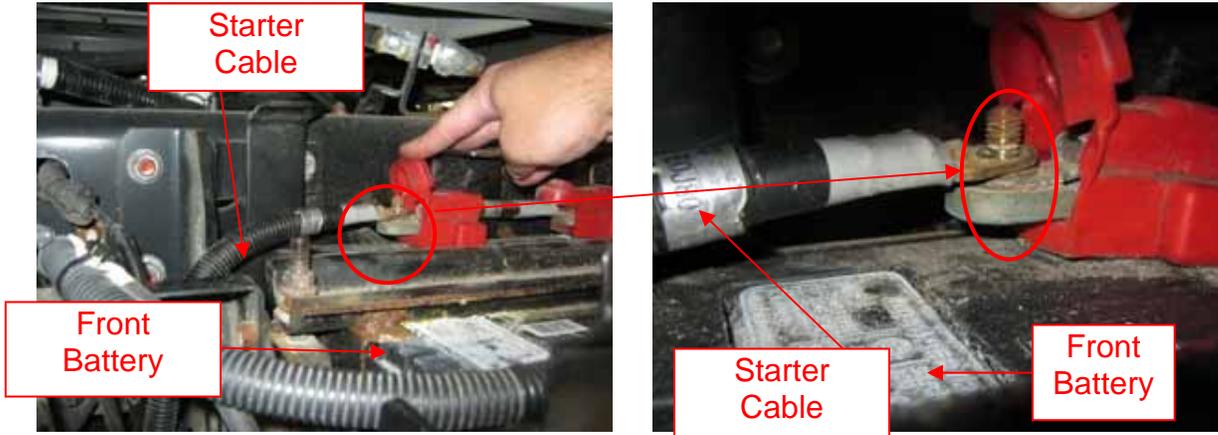


9. Using 2 new plastic tie straps, secure the engine block heater cable to each of the 2 locations on the starter cable.



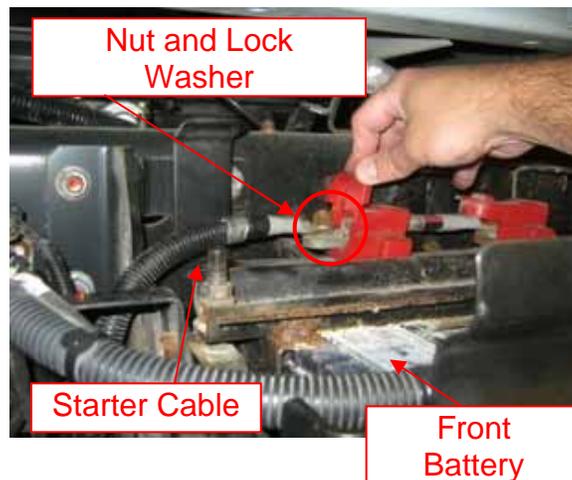
SAFETY RECALL

10. Connect the starter cable to the positive terminal of the front battery.



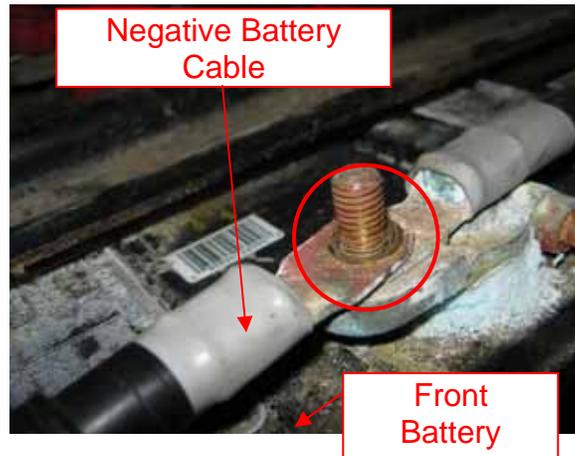
11. Install the nut and lock washer that secures the starter cable to the front battery positive battery terminal. Torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



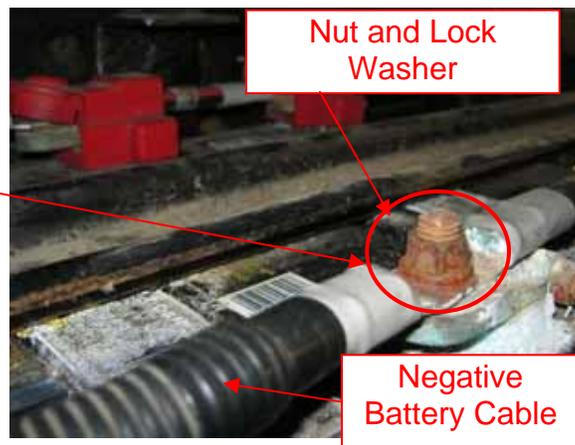
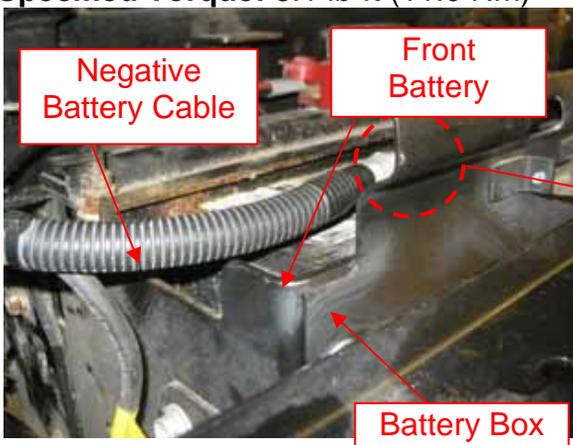
SAFETY RECALL

12. Remove the vinyl electrical tape from the negative battery cable and connect the cable to the negative terminal of the front battery.

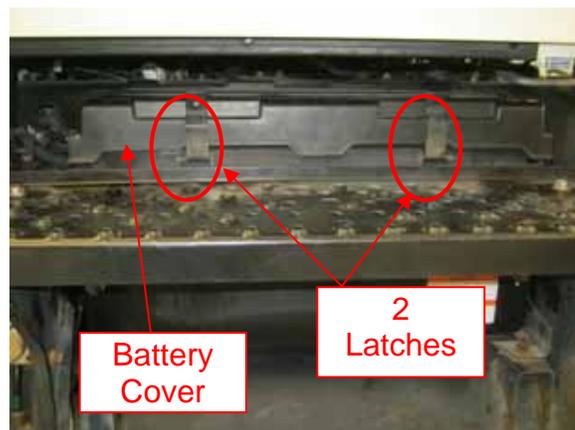


13. Install the nut and lock washer that secures the negative battery cable to the front battery negative battery terminal and torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



14. Install the battery cover and engage the 2 latches that secure the battery cover.



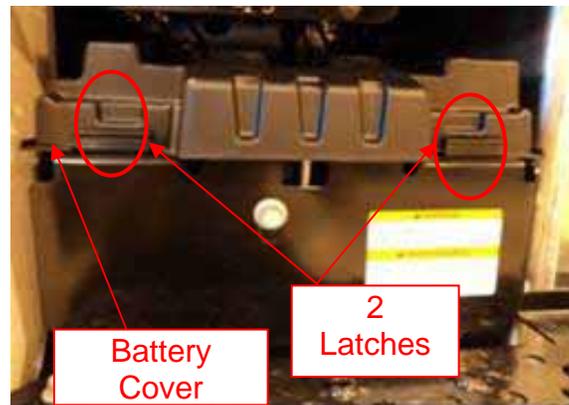
SAFETY RECALL

15. Proceed to the final inspection section to complete this campaign procedure.

REPAIR PROCEDURE:

Starter Cable Removal (*Clean Chassis*):

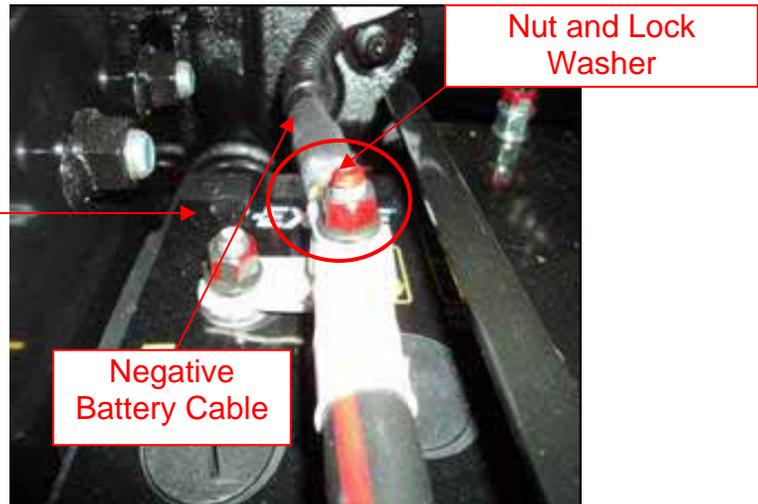
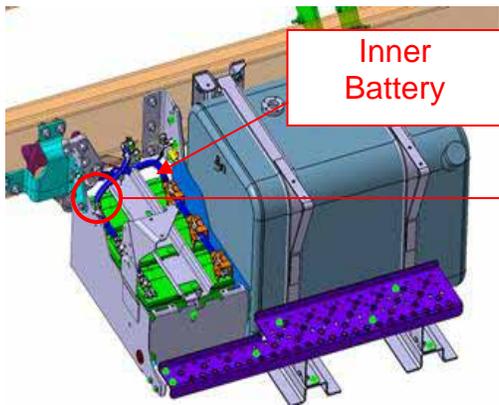
1. Release the 2 latches securing the battery cover and then remove the battery cover.



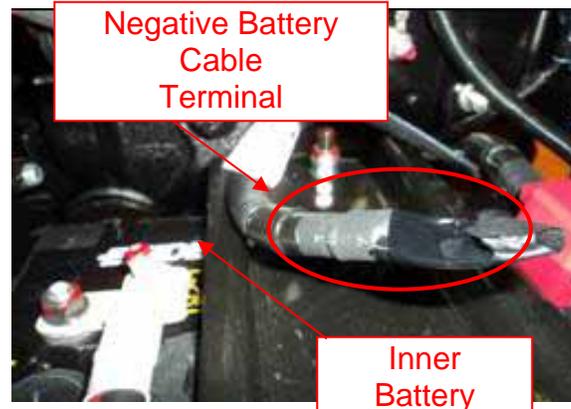
2. Remove the nut and lock washer securing the negative battery cable to the negative battery terminal on the inner battery.

CAUTION: Before disconnecting the negative battery, ensure that 10 minutes has passed since the ignition key has placed in the locked position. Disconnecting the negative battery cable without waiting the 10 minutes may result in erroneous Diagnostic Trouble Codes (DTC's) setting in the DPR or SCR systems.

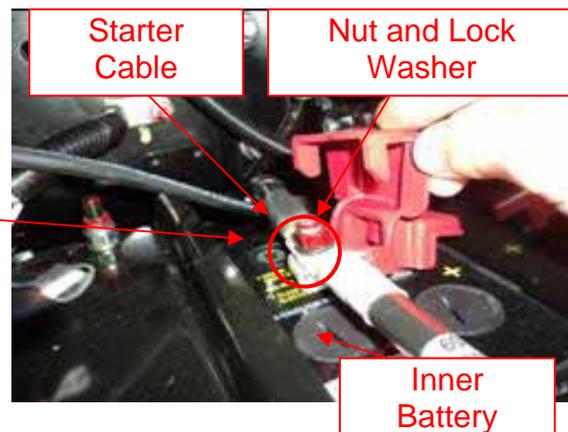
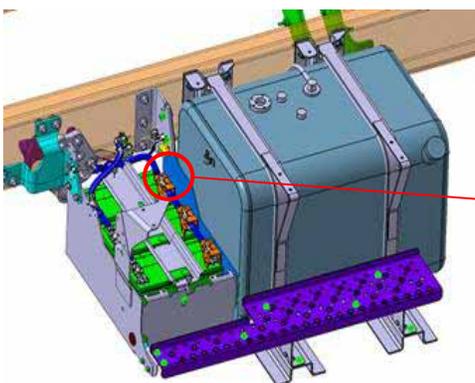
SAFETY RECALL



3. Disconnect the negative battery cable from the negative terminal of the inner battery and then cover the terminal of the negative battery cable with vinyl electrical tape to prevent any accidental short circuit.

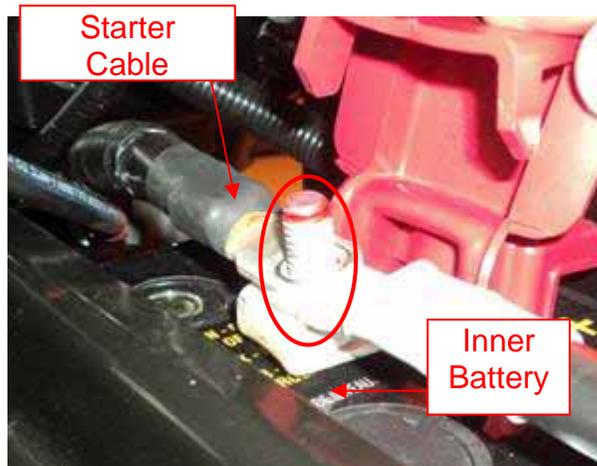


4. Remove the nut and lock washer securing the starter cable to the positive battery terminal on the inner battery.

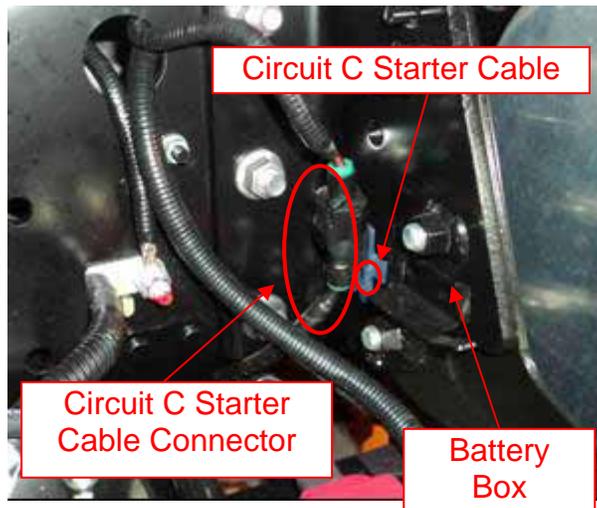


SAFETY RECALL

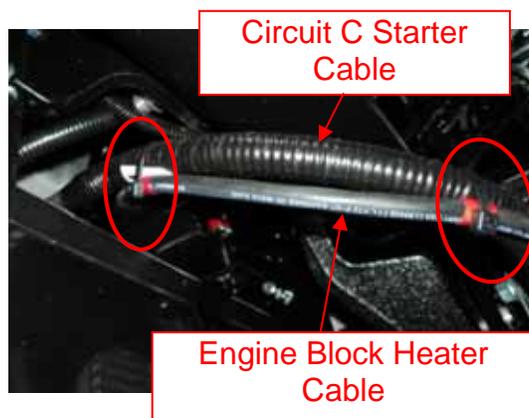
5. Disconnect the starter cable from the positive terminal of the inner battery.



6. Cut the plastic clip that secures the circuit C starter cable to the battery box and then disconnect the starter cable connector for the circuit C starter cable.

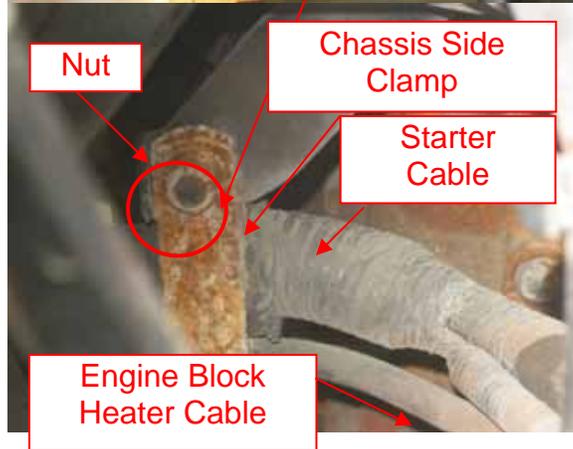
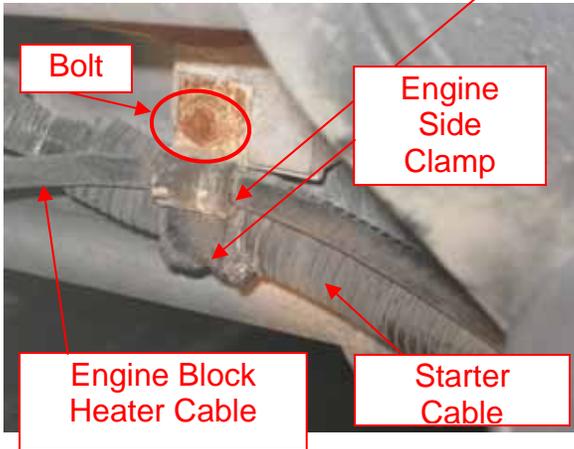
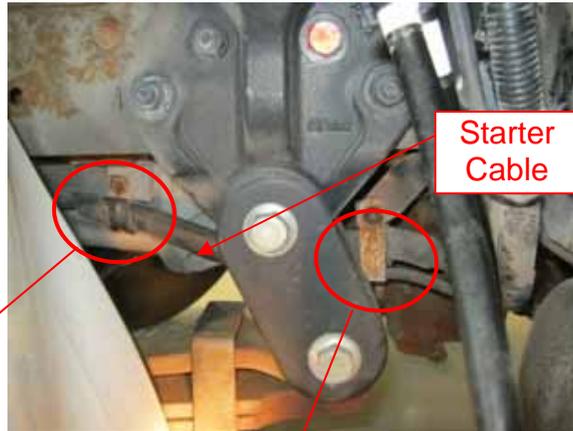


7. If the vehicle is equipped with an engine block heater cable, cut the two (2) plastic tie straps that secure the engine block heater cable to the starter cable and discard the tie straps.



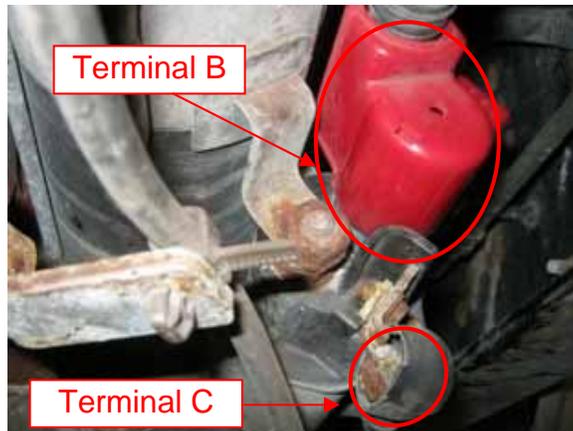
SAFETY RECALL

8. Locate the starter cable just below the inboard edge of the driver side frame rail. Remove the bolt securing the engine side starter cable steel clamp and then the nut securing the chassis side starter cable steel clamp.



9. Remove the protective caps from terminal B and terminal C, located on the starter.

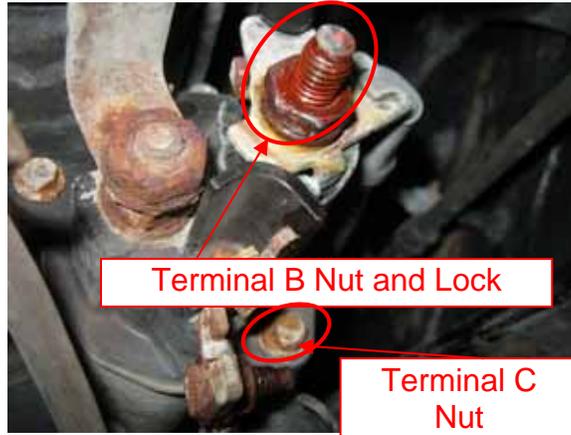
NOTE: Care should be taken not to damage the terminal B red plastic cap. This cap will be reused.



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10. Remove the terminal B nut with lock washer and the terminal C nut on the starter and retain for later use. Remove the starter cable from the truck and discard.

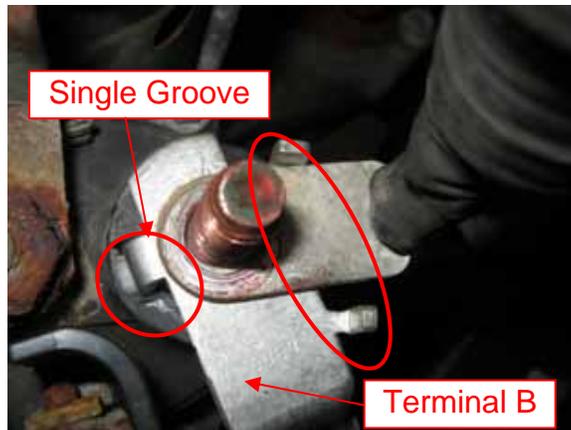
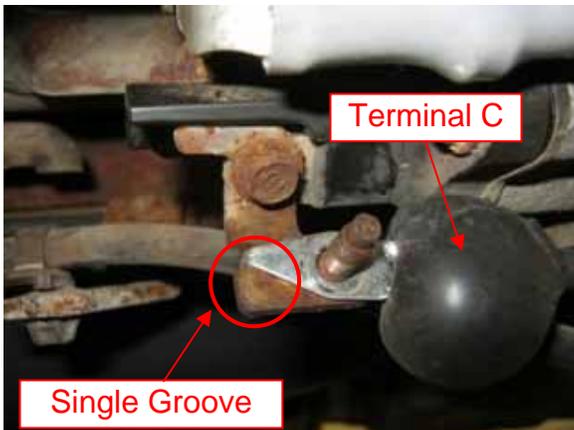
CAUTION: Use extreme care in removing nuts from starter studs, use rust penetrant as needed. Power tools or air tools should NOT be used during removal of the terminal B and C nuts.



NOTE: Do not discard the terminal C nut, terminal B nut and terminal B lock washer. These will be reused during starter cable installation.

Starter Cable Installation

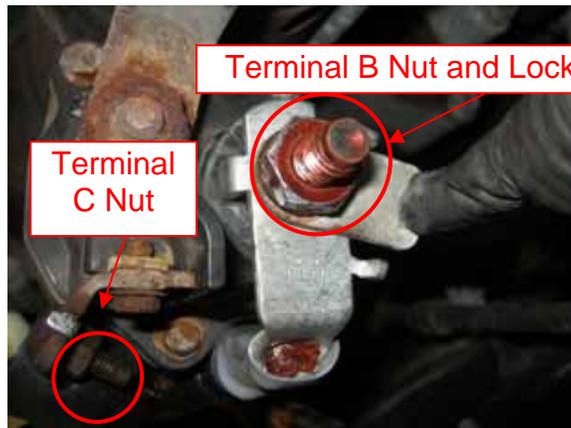
1. Using the new starter cable from the kit, align starter cable terminal B and terminal C into the grooves on the starter.



2. Install the lock washer and nut on terminal B and install the nut on terminal C. Torque both nuts to the specified torque.

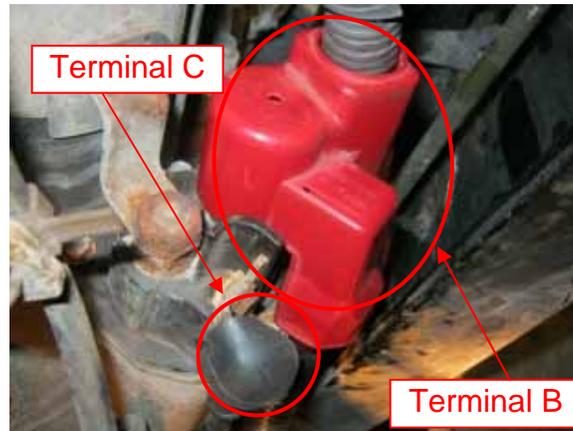
Specified Torque

Terminal B Nut: 15.5 lb-ft (21.1Nm)
Terminal C Nut: 1.8 lb-ft (2.5 Nm)

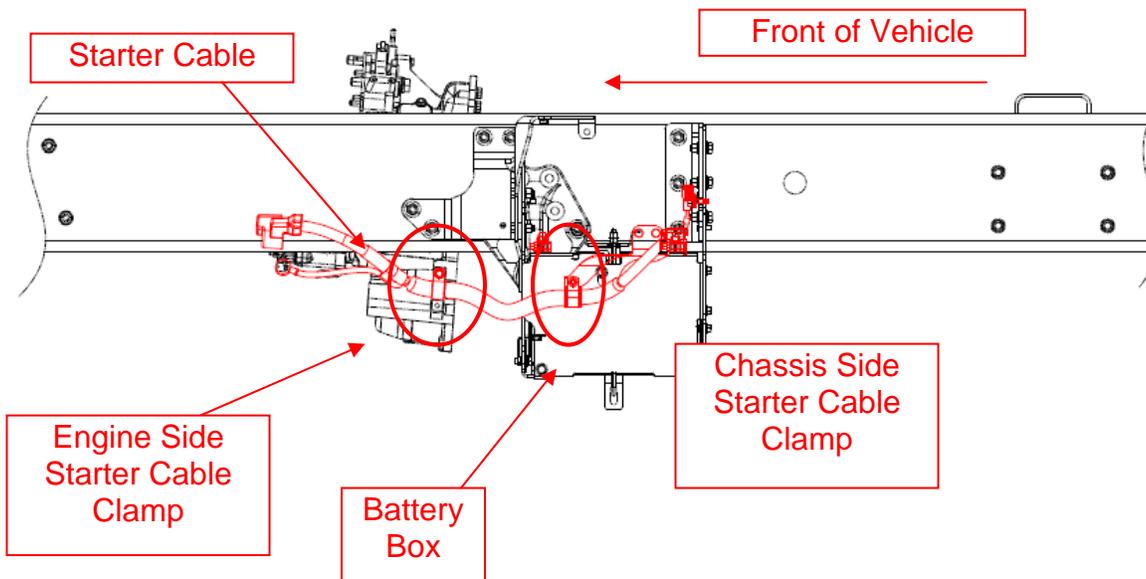


SAFETY RECALL

3. Install terminal B and terminal C protective caps onto the starter.



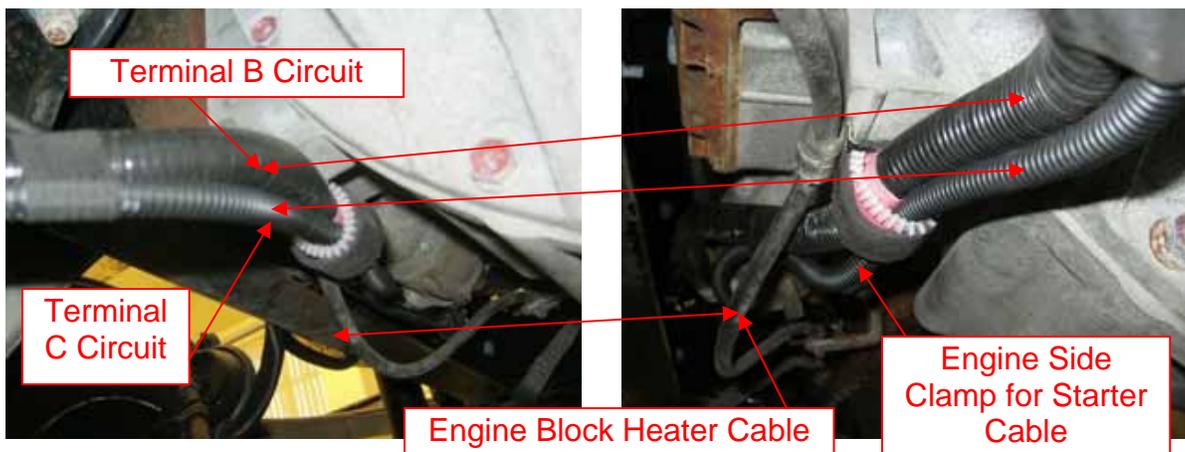
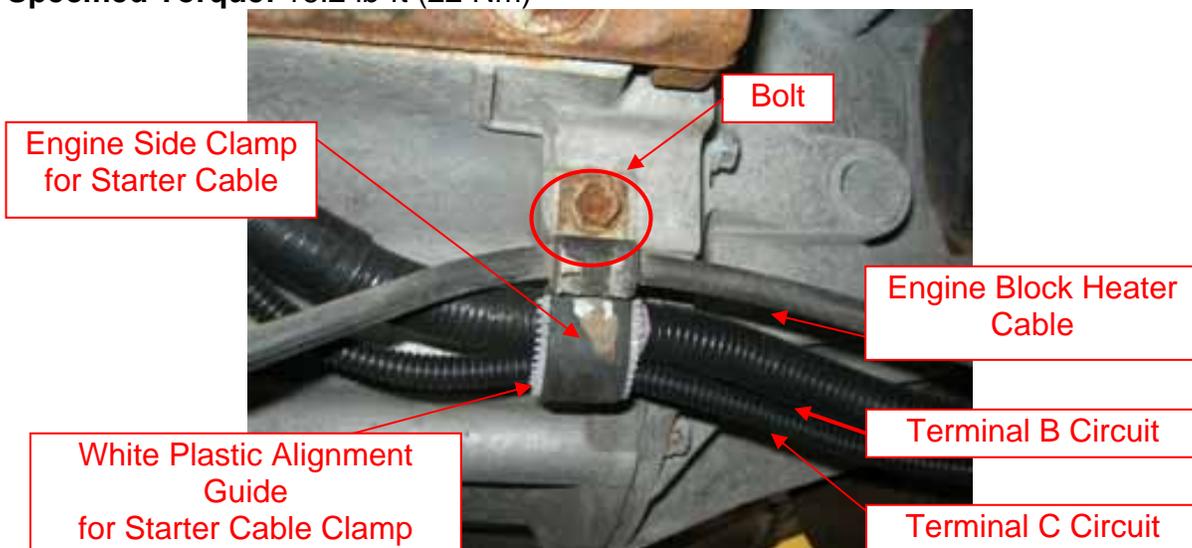
4. Route the new starter cable in the same orientation as the old cable prior to removal.



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- Using the new steel clamp provided in the kit, install the clamp around the white plastic alignment guide on the starter cable. When installing, make certain the larger diameter cable (terminal B circuit) is in the upper most position and the smaller diameter cable (terminal C circuit) is in the lower position within the steel clamp. Install the starter cable and clamp onto the engine side mounting bracket. If the vehicle is equipped with an engine block heater cable, also install this harness clamp onto the engine side mounting bracket. Install the bolt and torque to the specified torque.

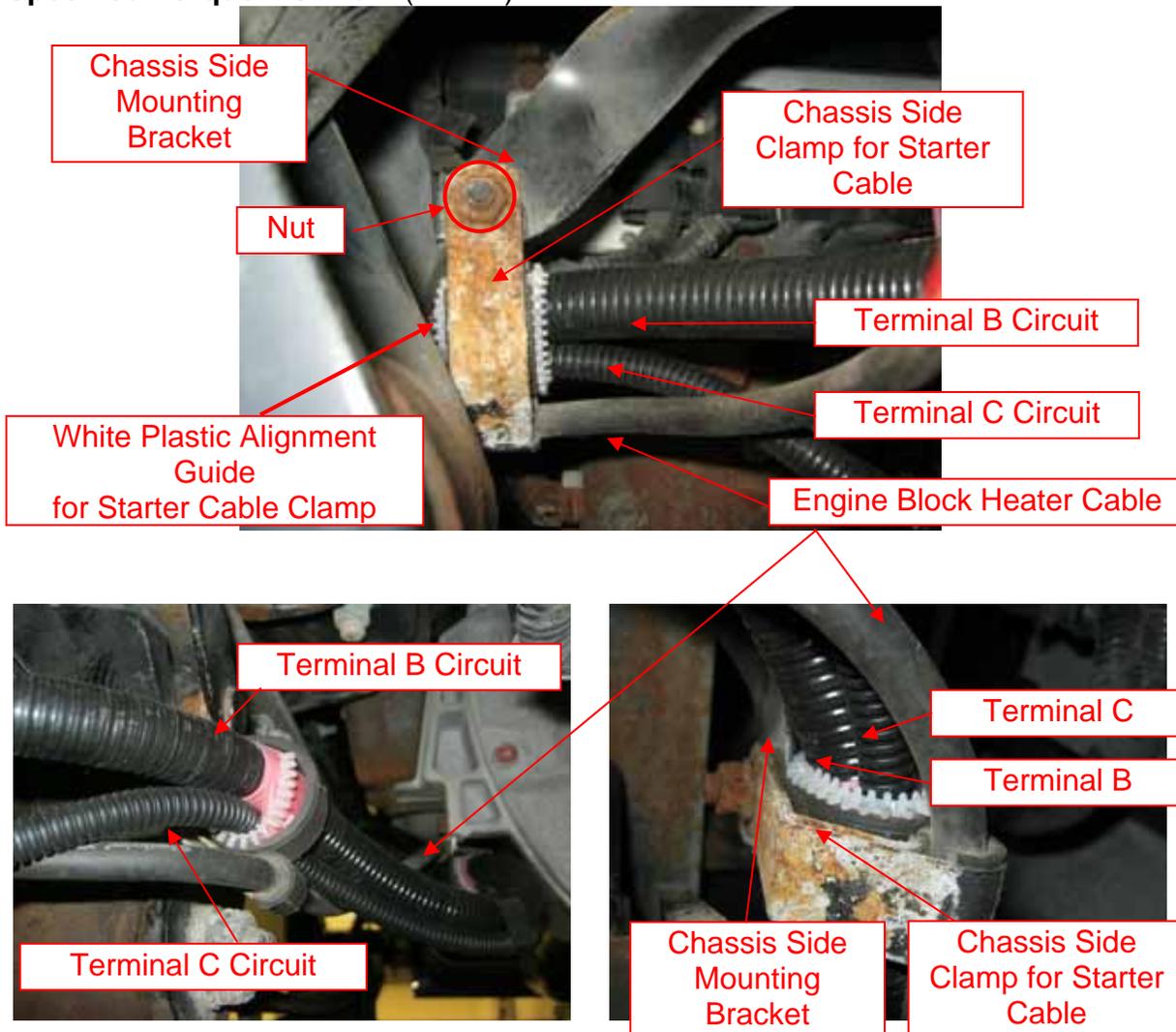
Specified Torque: 16.2 lb-ft (22 Nm)



S A F E T Y R E C A L L

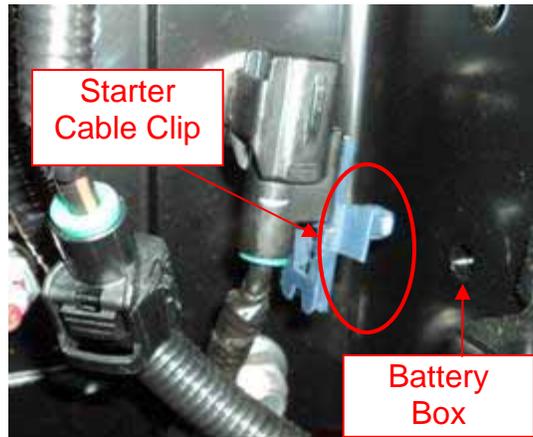
6. Using the new steel clamp provided in the kit, install the clamp around the white plastic alignment guide on the starter cable. When installing, make certain the larger diameter cable (terminal B circuit) is in the upper most position and the smaller diameter cable (terminal C circuit) is in the lower position within the steel clamp. Install the starter cable and clamp onto the chassis side mounting bracket. If the vehicle is equipped with a block heater cable, also install this harness clamp onto the chassis side mounting bracket. Install the nut and torque to the specified torque.

Specified Torque: 16.2 lb-ft (22 Nm)

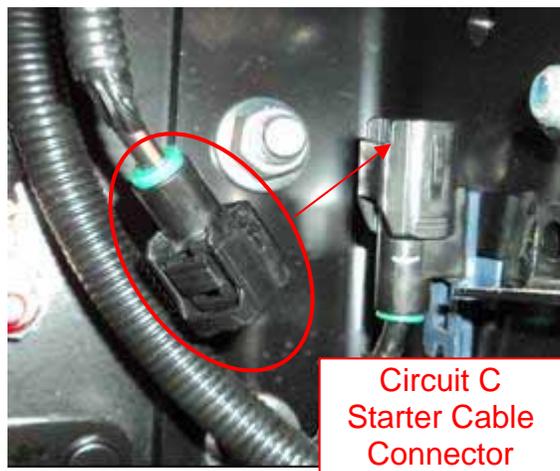


SAFETY RECALL

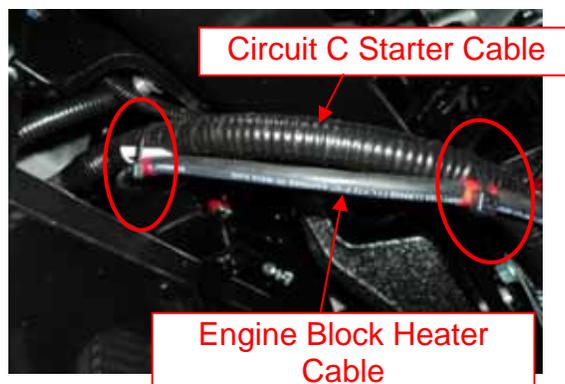
7. Connect the plastic starter cable clip to the battery box.



8. Connect the circuit C starter cable connector.

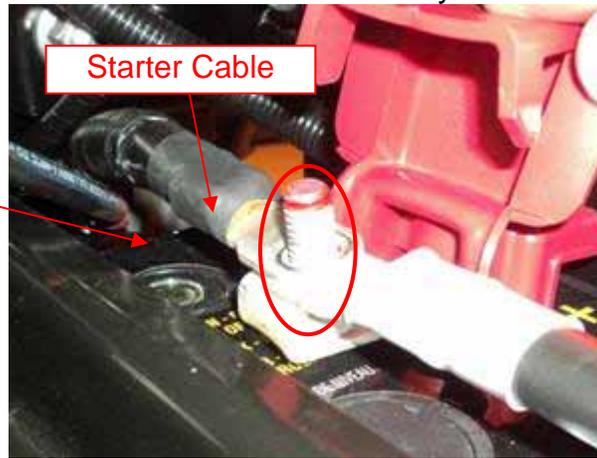
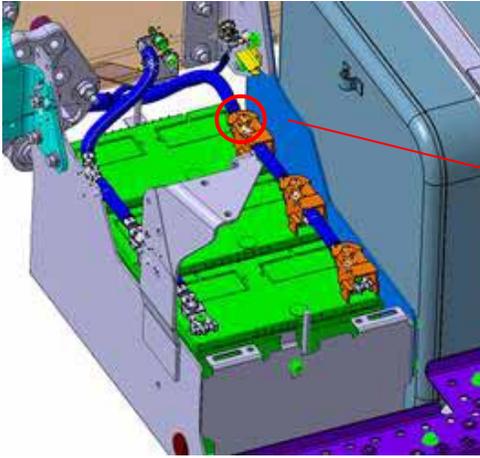


9. Using 2 new plastic tie straps, secure the engine block heater cable to each of the 2 locations on the starter cable.



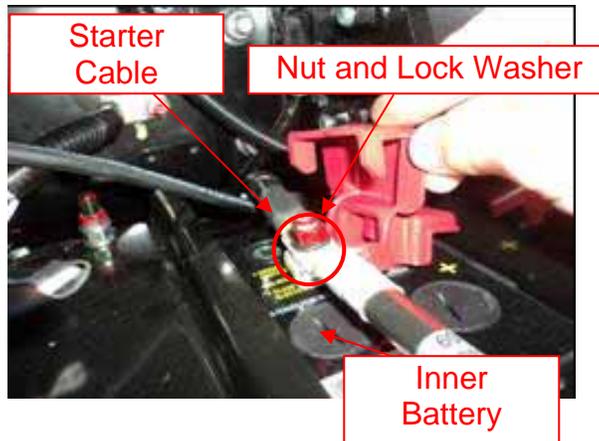
SAFETY RECALL

10. Connect the starter cable to the positive terminal of the inner battery.



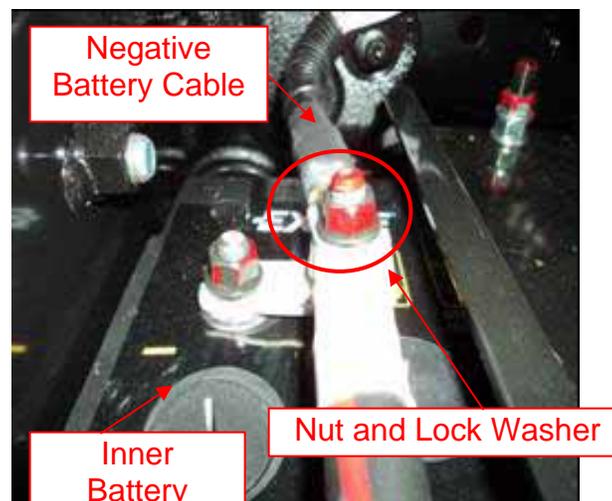
11. Install the nut and lock washer that secures the starter cable to the inner battery positive battery terminal. Torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



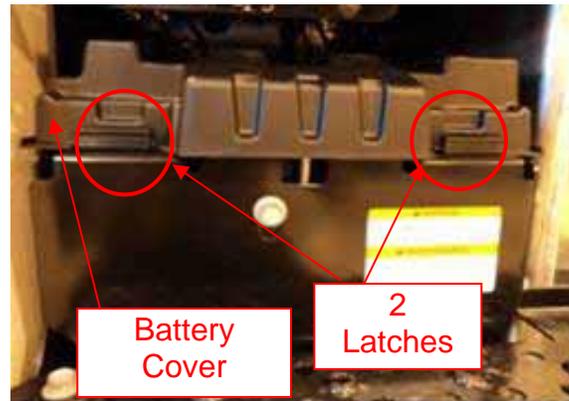
12. Remove the vinyl electrical tape from the negative battery cable. Install the negative battery cable including the nut and lock washer that secures the negative battery cable to the inner battery negative battery terminal. Torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



SAFETY RECALL

13. Install the battery cover and engage the 2 latches that secure the battery cover.



14. Proceed to the final inspection section to complete this campaign procedure.

FINAL INSPECTION:

To complete this campaign procedure, review the campaign and confirm the following:

- The starter cable routing is correct with no twisting or chafe points.
- All fasteners that were removed have been reinstalled and are torqued to their specified torque values.
- If equipped with an engine block heater, the engine block heater cable is correctly secured using tie straps.
- The terminal B and terminal C starter caps are properly installed and secure.
- The white plastic alignment guide is correctly orientated within the new steel cable clamps that were provided in the starter cable kit.

Claim Application:

- Claim No.: A8310
- Labor charge: 1.2hr / unit
- Warranty code: 8214198
- Operation code: 82107ARE
- Original failed part number: 9999999999