

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

SUBJECT:	176 MDT & LDT Starter Cable
DATE:	1-13-2013
BULLETIN NO.:	RCB-002-12
CAMPAIGN NO.:	A8310
AFFECTED MODELS:	2008 through 2010 MY NA6J, NB6J, NC6J, ND8J, NE8J, NJ8J, NV8J Conventional Hino Trucks equipped with either a J08 or J05 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:

2008 through 2010 model year NA6J, NB6J, NC6J, ND8J, NE8J, NJ8J, NV8J Conventional Hino Trucks equipped with either a J08/J05 engine series. These trucks were assembled at either Williamstown, WV assembly plant or Long Beach, CA 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.

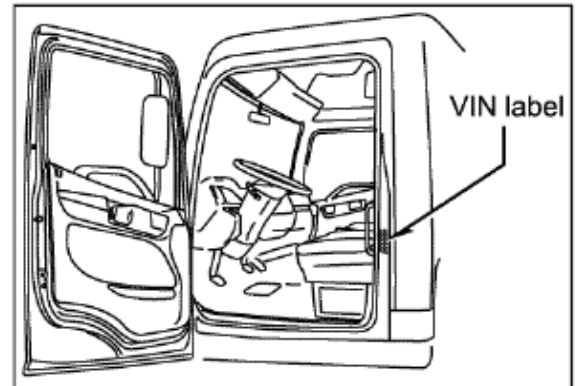
!!! WARNING !!!

- 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.

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

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
82122E0620	82122E1640	J05 Engine Equipped	04002044E0
82122E0630	82122E1650	J08 Engine Equipped / GR27	04002045E0
82122E0640	82122E1660	J08 Engine Equipped / GR31	04002046E0

NOTE. Contents of specific Parts Kits.

Kit Part Number	Kit Component Description	Quantity
04002044E0	1 Starter Cable(82122E1640) 2 Steel Clamps(SN23103001) 1 Plastic Tie Strap(S478371230)	1 Kit Required As Per VIN
04002045E0	1 Starter Cable(82122E1650) 2 Steel Clamps(SN23103001) 2 Plastic Tie Straps(S478371230)	
04002046E0	1 Starter Cable(82122E1660) 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.



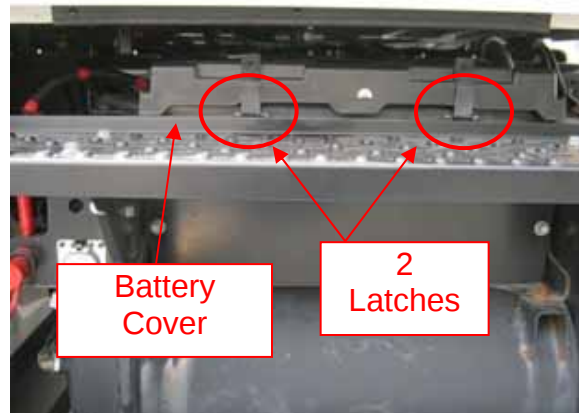
4. Chock all of the wheels



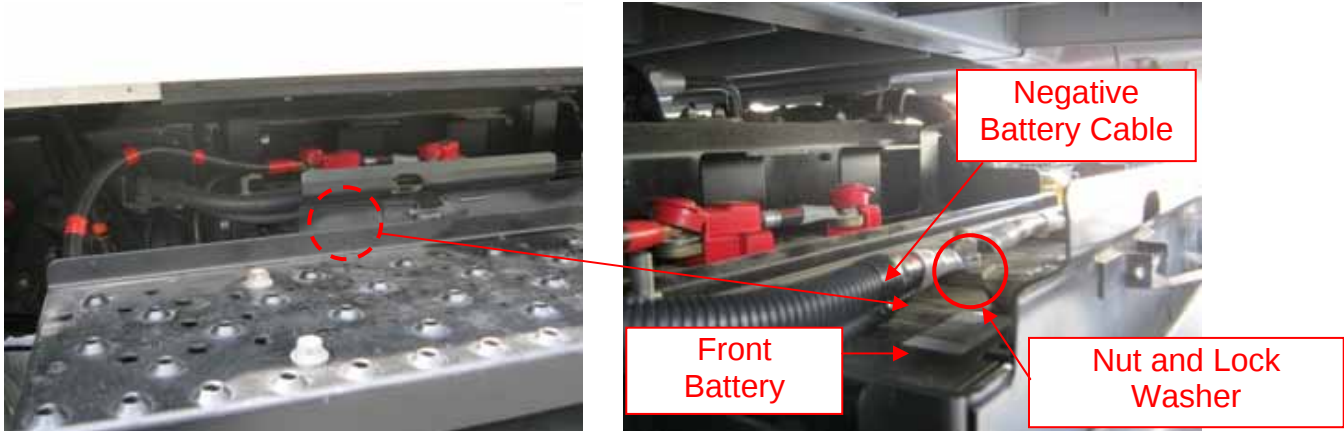
SAFETY RECALL

REPAIR PROCEDURE (J08 ENGINE EQUIPPED): Starter Cable Removal

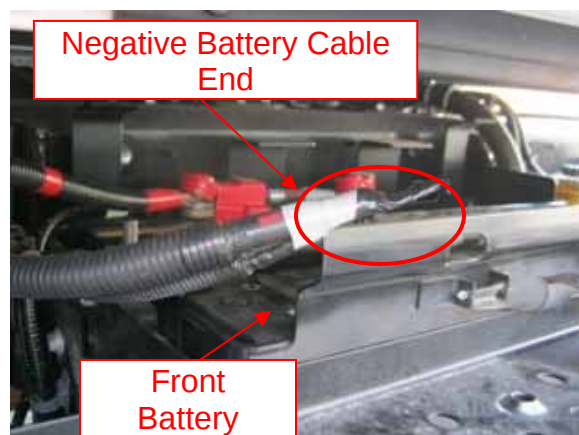
1. Release the two (2) latches securing the battery cover and then remove the battery cover.



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

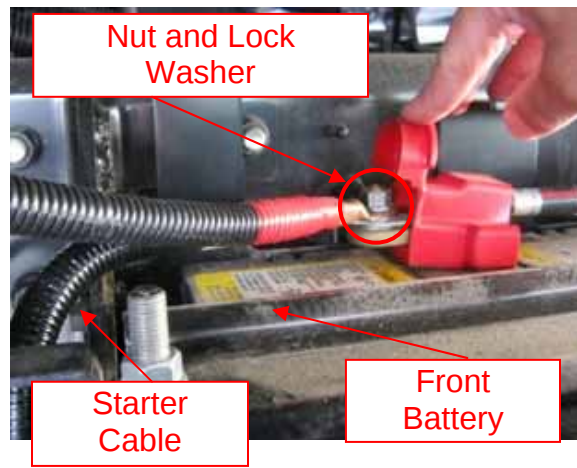


3. Disconnect the negative battery cable from the negative terminal of the front battery and then cover the exposed negative battery cable end with vinyl electrical tape to prevent any accidental short circuit.

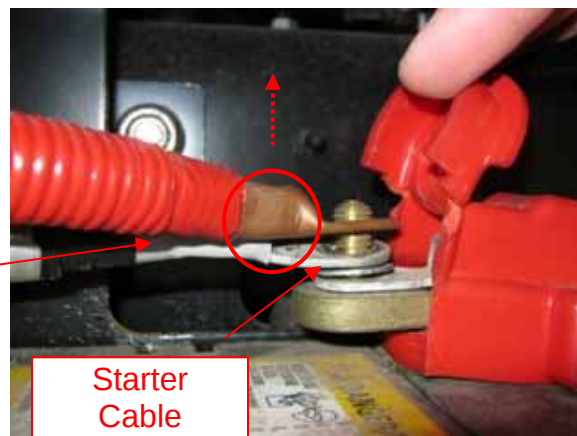
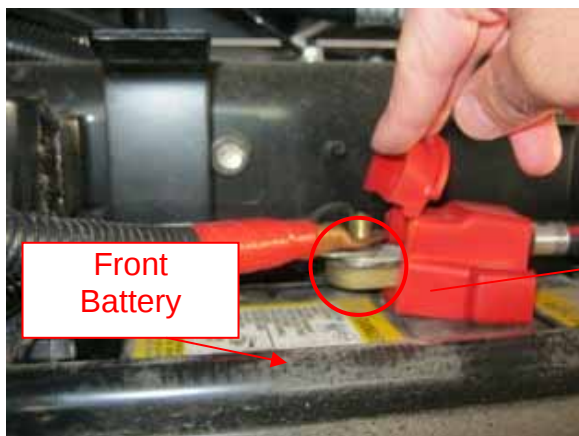


SAFETY RECALL

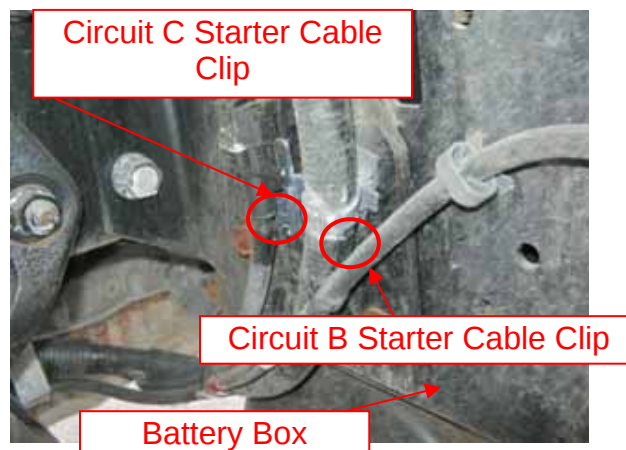
4. Remove the nut and lock washer securing the starter cable to the positive battery terminal on the front battery.



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

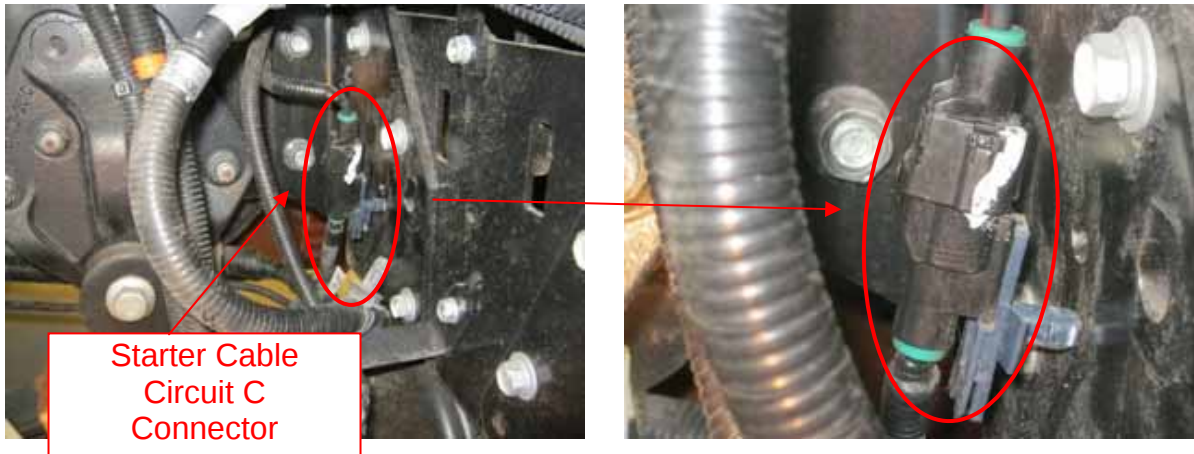


6. Cut the two (2) plastic clips that secure both the circuit B starter cable and the circuit C starter cable to the battery box.

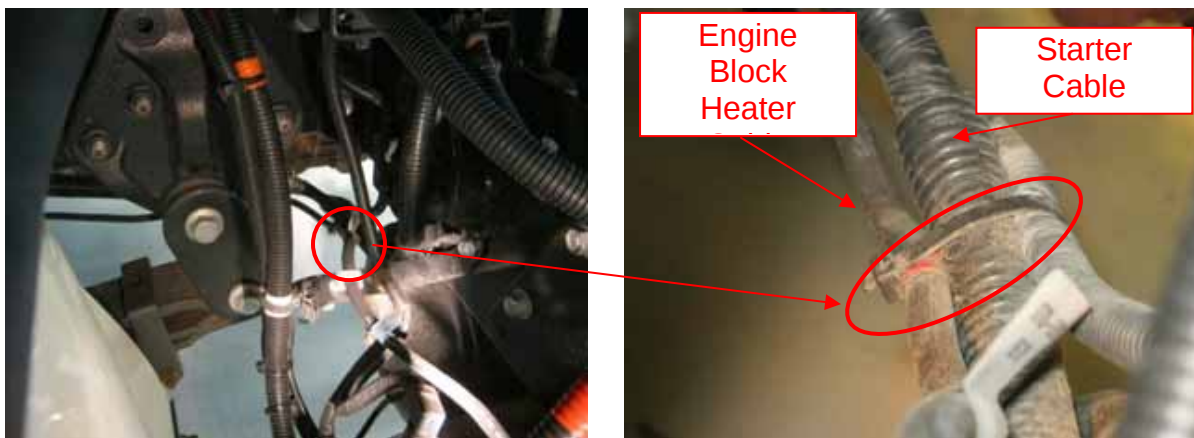


SAFETY RECALL

7. Disconnect the starter cable circuit C connector.

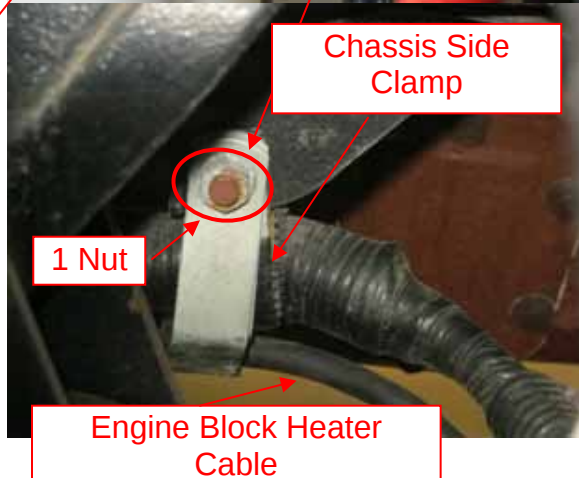
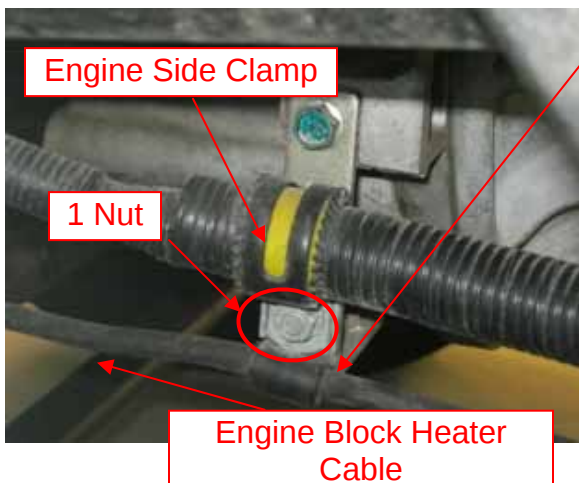


8. If the vehicle is equipped with an engine block heater cable, cut the plastic tie strap that secures the block heater cable to the starter cable and discard the tie strap.



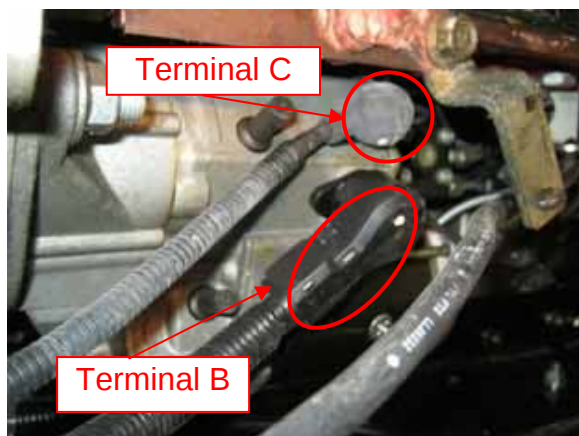
SAFETY RECALL

9. Locate the starter cable just below the inboard edge of the driver side frame rail. Remove each nut that secures each of the 2 starter cable steel clamps. One clamp is the engine side clamp and the other is the chassis side clamp.



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

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

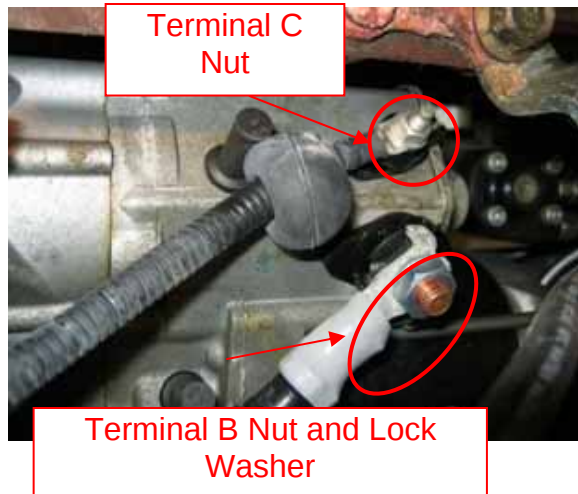


SAFETY RECALL

11. 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.

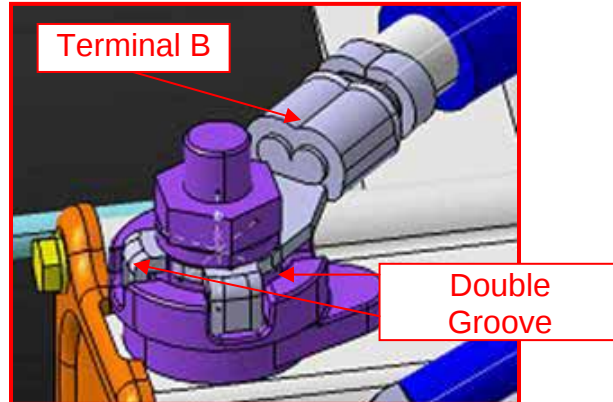
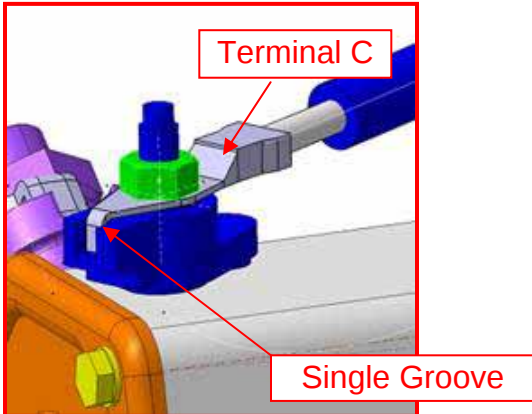
NOTE: Do not discard the terminal C nut, terminal B nut and terminal B lock washer. These will be reused during starter cable installation.



SAFETY RECALL

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.

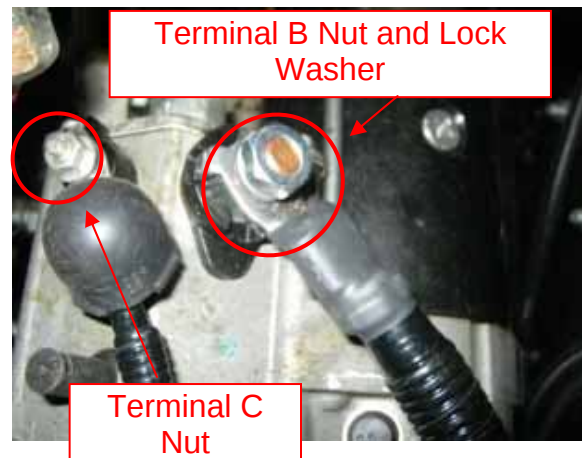


2. Install the lock washer and nut on terminal B and install the nut on terminal C. Torque both nuts to the specified torque.

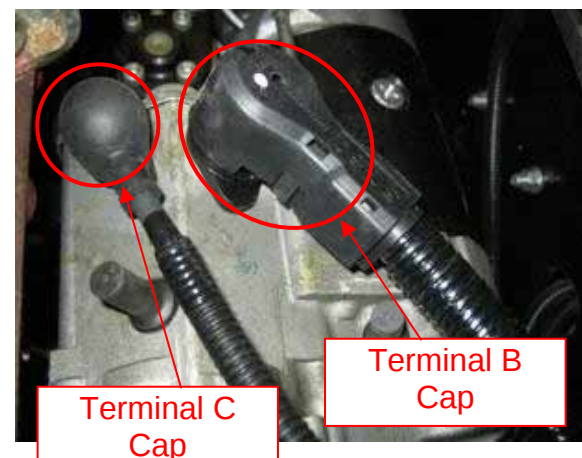
Specified Torque

Terminal B Nut: 15.5 lb-ft (21.0 Nm)

Terminal C Nut: 1.81 lb-ft (2.5 Nm)

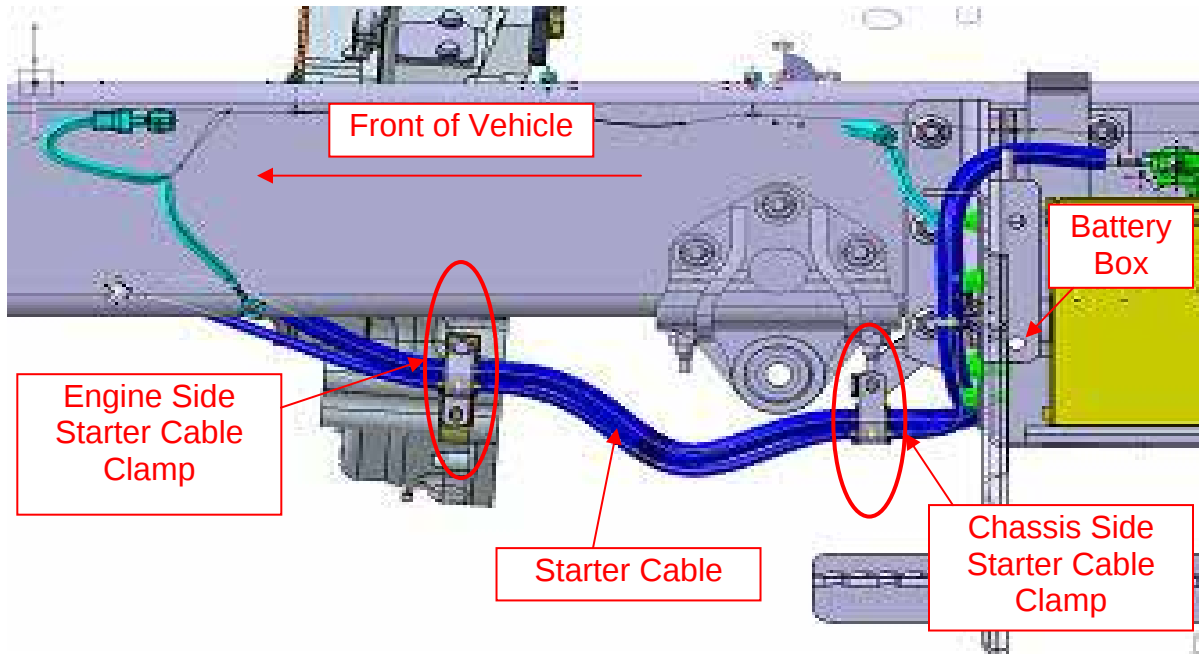


3. Install the terminal B plastic cap and terminal C rubber cap.



SAFETY RECALL

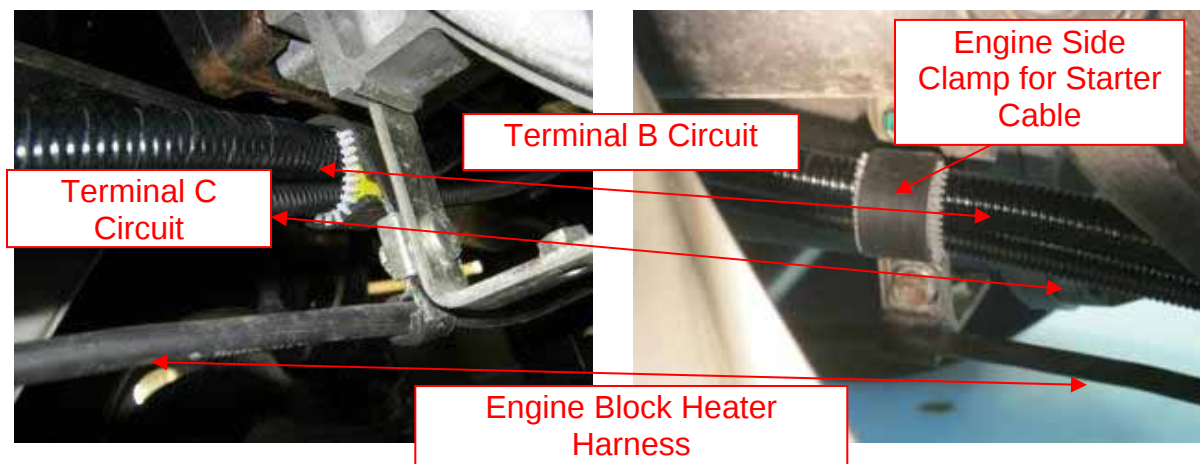
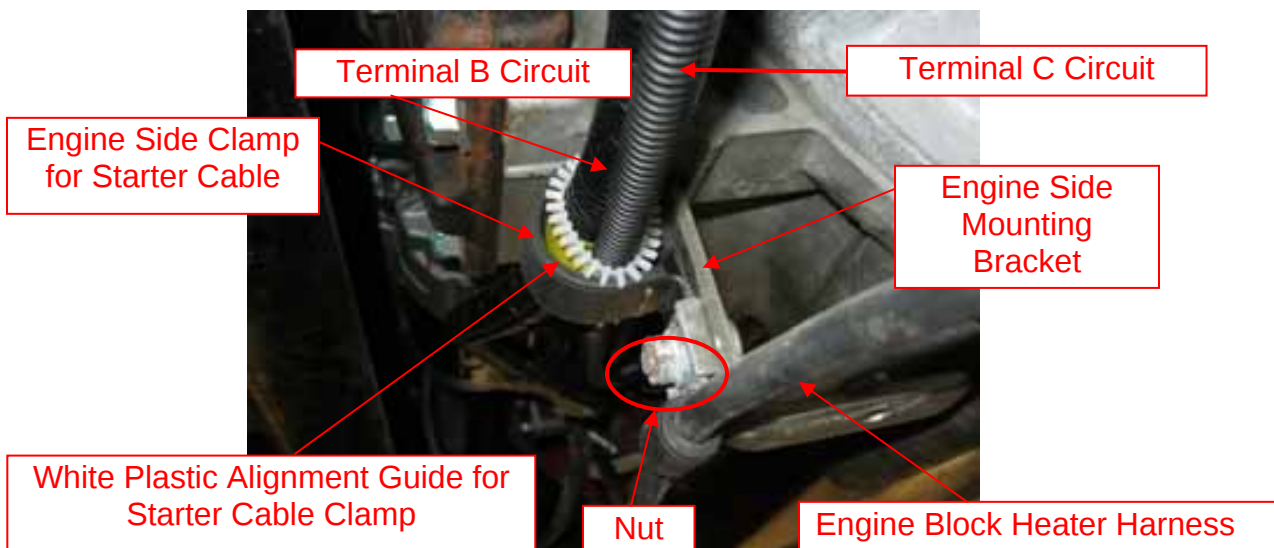
4. Route the new starter cable in the same orientation as the old cable prior to removal.



SAFETY RECALL

5. 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 nut and torque to the specified torque.

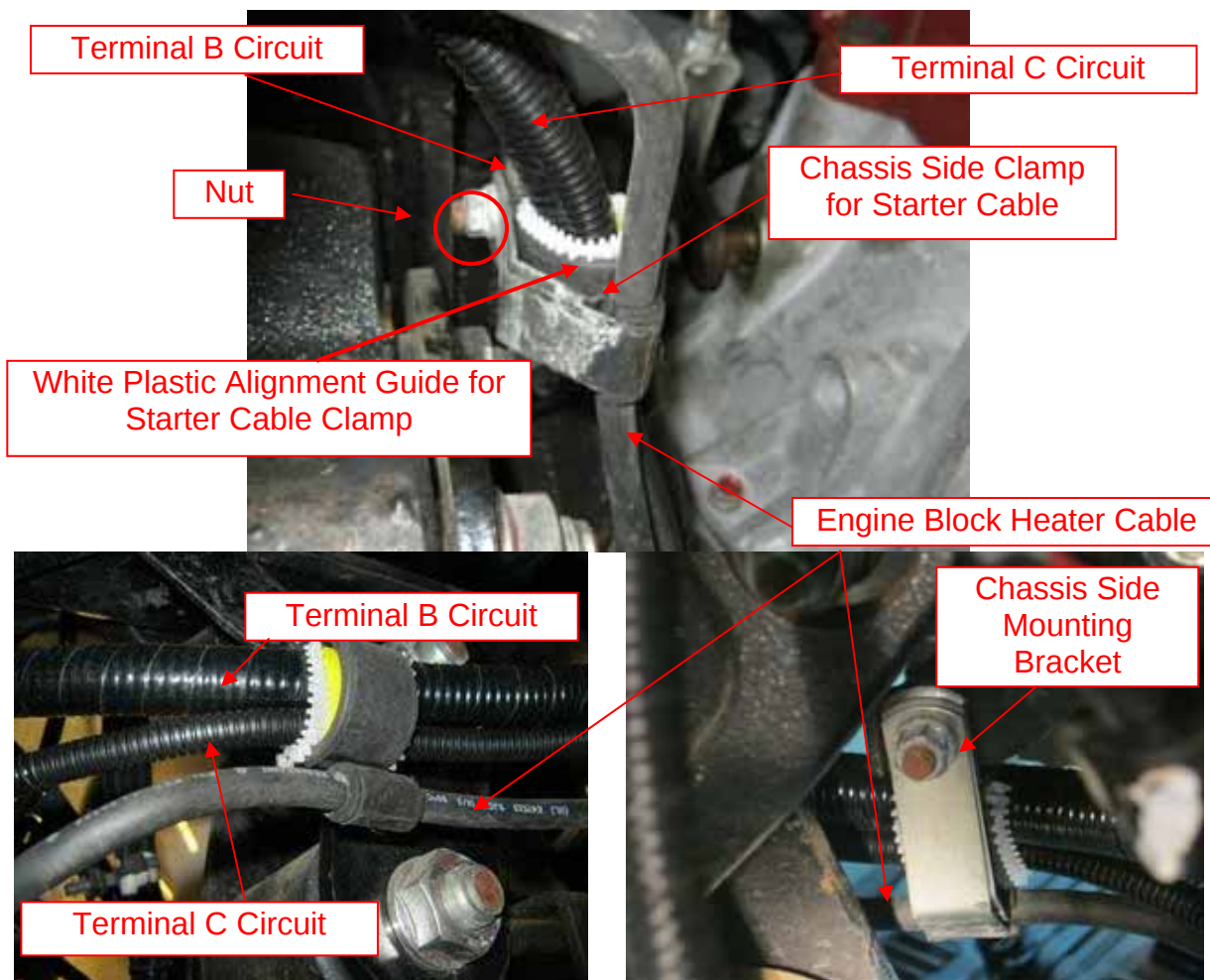
Specified Torque: 16.2 lb-ft (22 Nm)



SAFETY RECALL

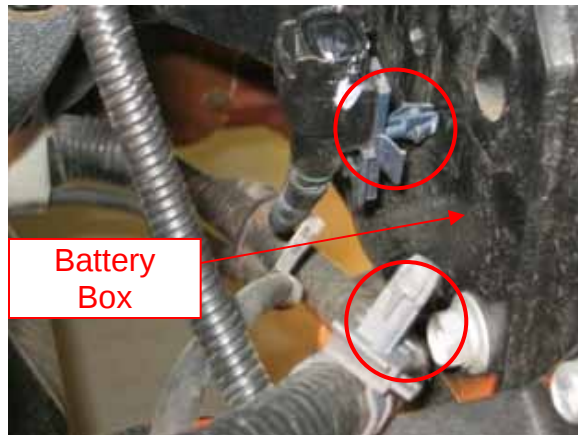
6. Using the new steel clamp provided in the kit, install the clamp around the white plastic alignment guide on the starter cable. When installing, make certain the larger diameter cable (terminal B circuit) is in the upper most position and the smaller diameter cable (terminal C circuit) is in the lower 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)

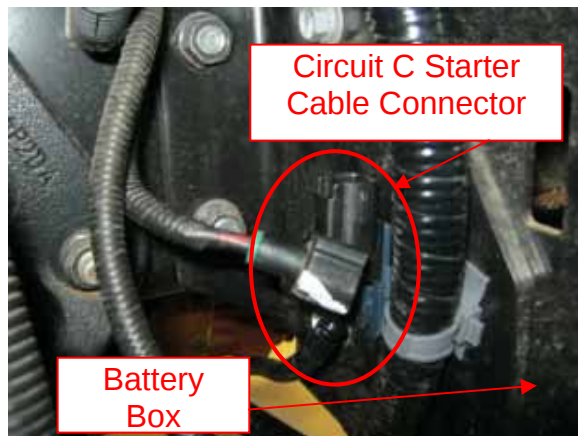


SAFETY RECALL

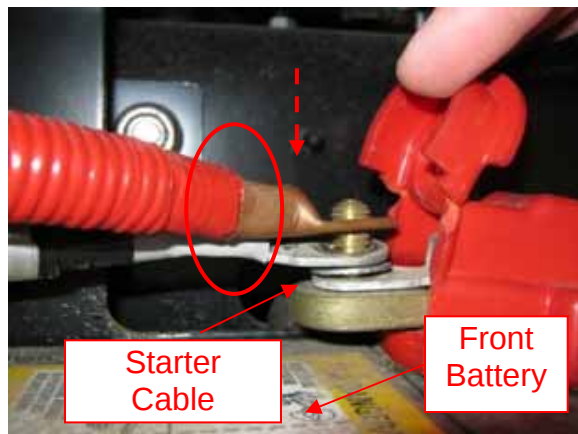
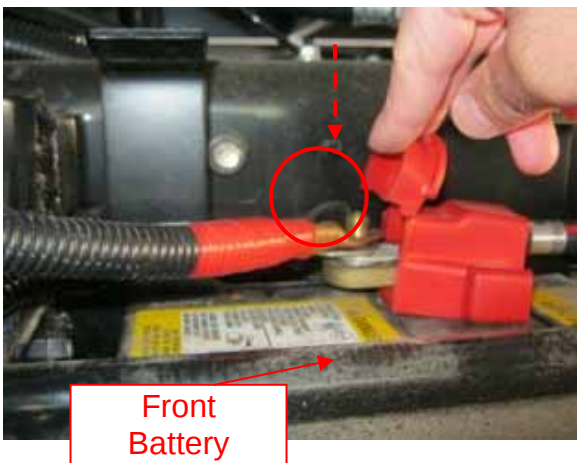
7. Connect the two (2) plastic starter cable clips to the battery box.



8. Connect circuit C starter cable connector.



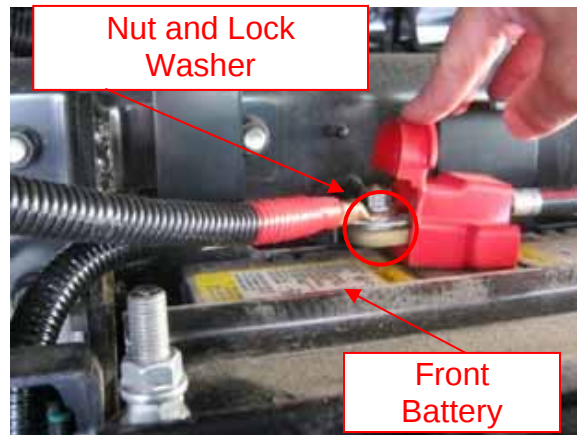
9. Connect the starter cable to the positive terminal of the front battery.



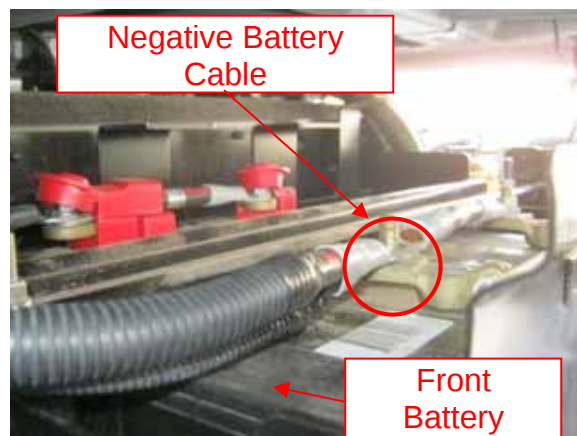
SAFETY RECALL

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

Specified Torque: 8.1 lb-ft (11.0 Nm)

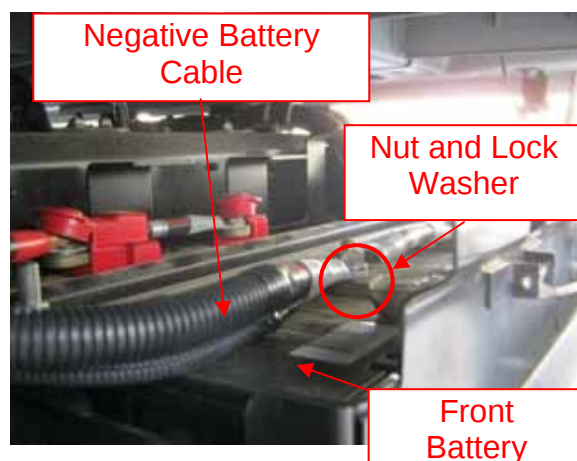


11. Remove the vinyl electrical tape from the negative battery cable and connect the cable to the negative terminal of the front battery.



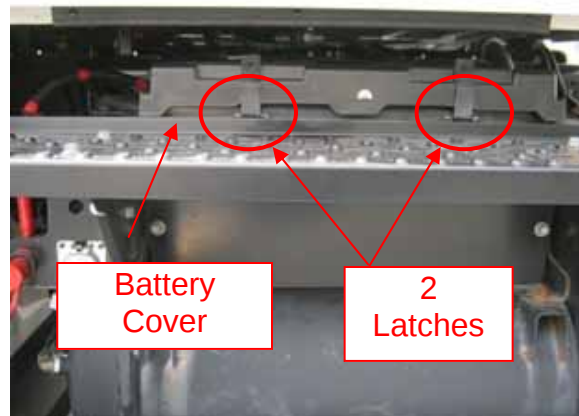
12. Install the nut and lock washer that secures the negative battery cable to the front battery negative battery terminal and torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



SAFETY RECALL

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

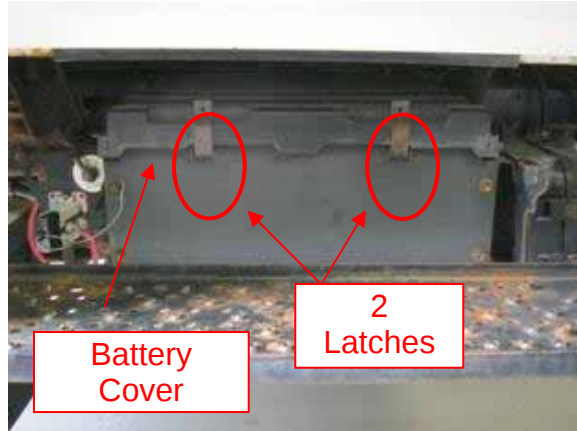


14. Proceed to the final inspection section to complete this campaign procedure.

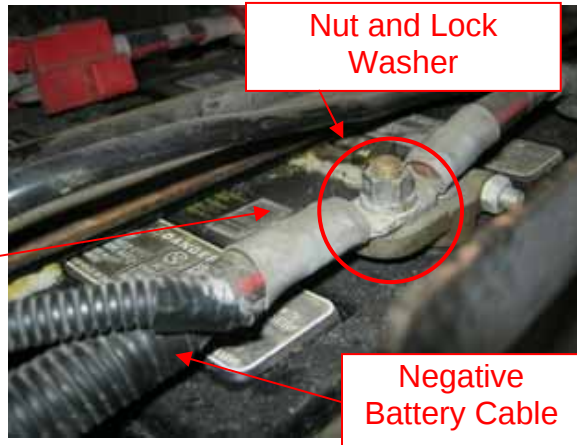
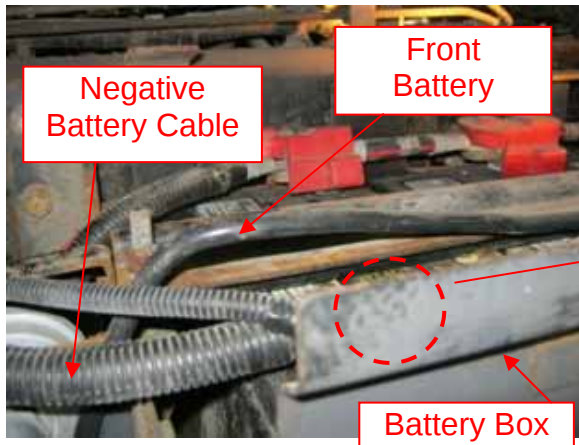
S A F E T Y R E C A L L

REPAIR PROCEDURE (J05 ENGINE EQUIPPED): Starter Cable Removal

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

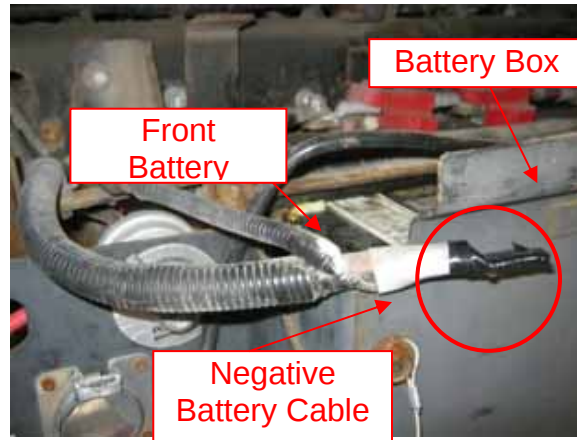
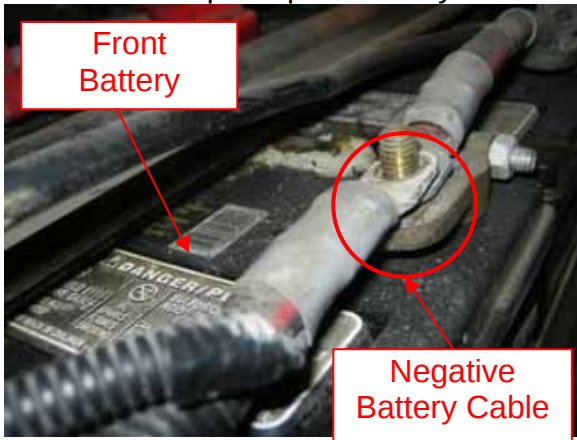


2. Remove the nut and lock washer securing the negative battery cable to the negative battery terminal on the front battery.

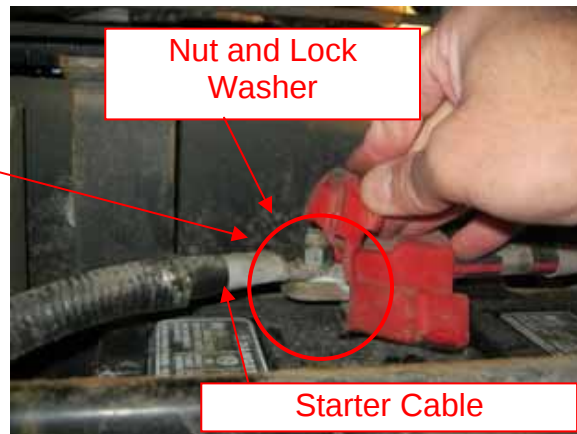
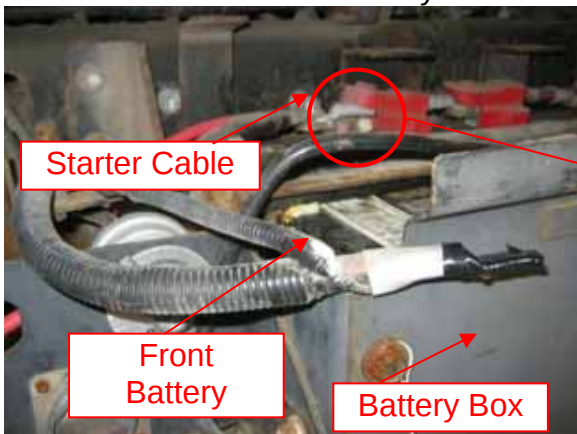


SAFETY RECALL

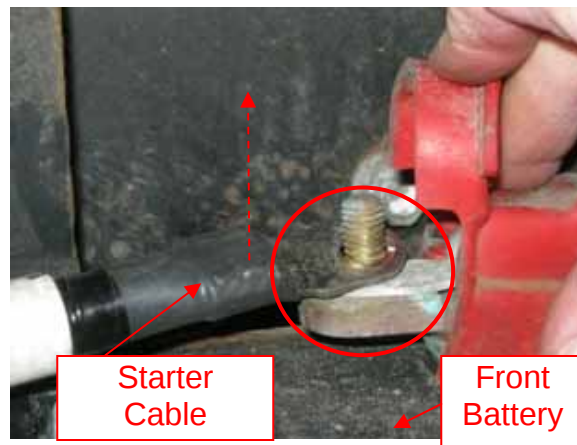
3. Disconnect the negative battery cable from the negative terminal of the front battery and then cover the terminal of the negative battery cable with vinyl electrical tape to prevent any accidental short circuit.



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

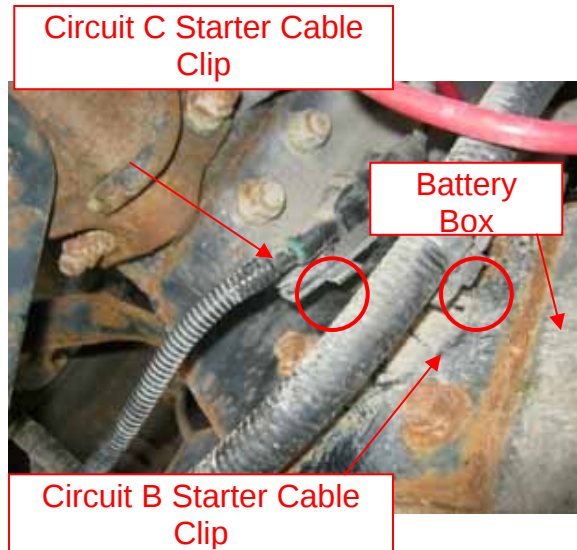
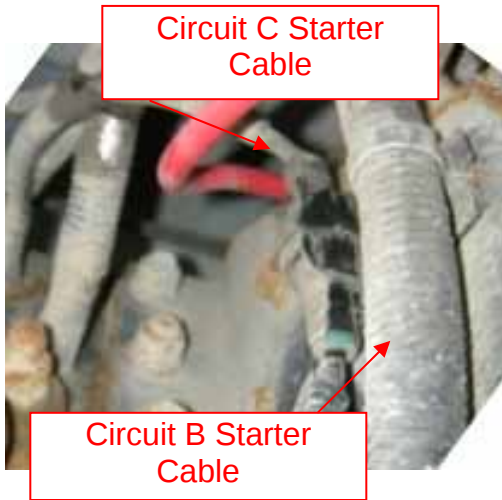


5. Disconnect the starter cable from the positive terminal of the front battery.

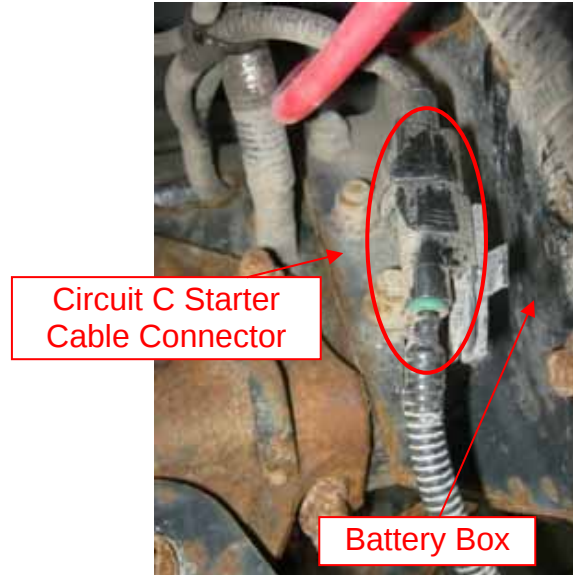


SAFETY RECALL

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

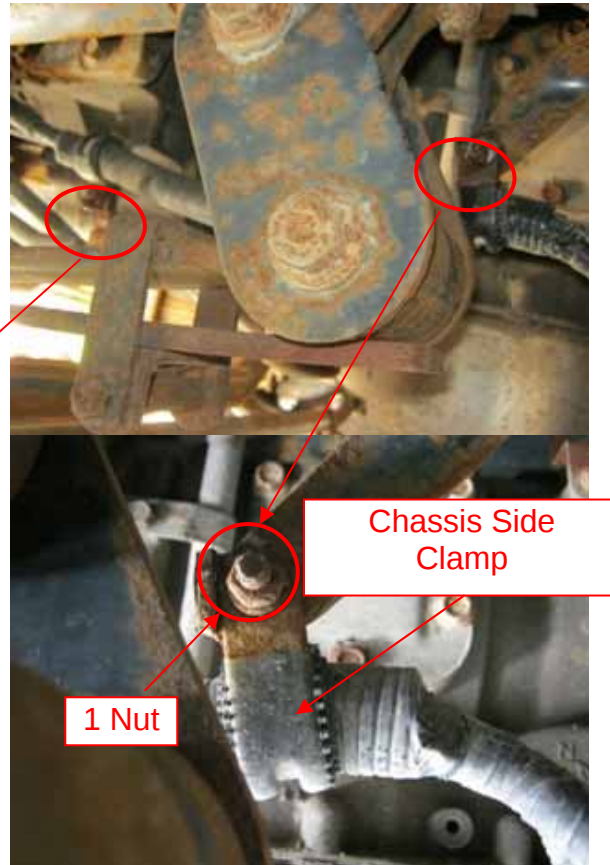
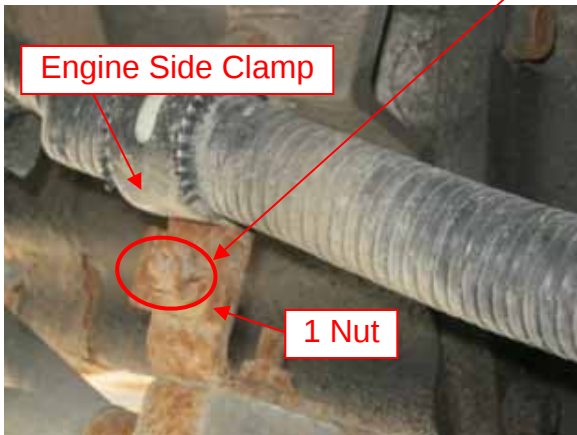


7. Disconnect the starter cable connector for the circuit C starter cable.



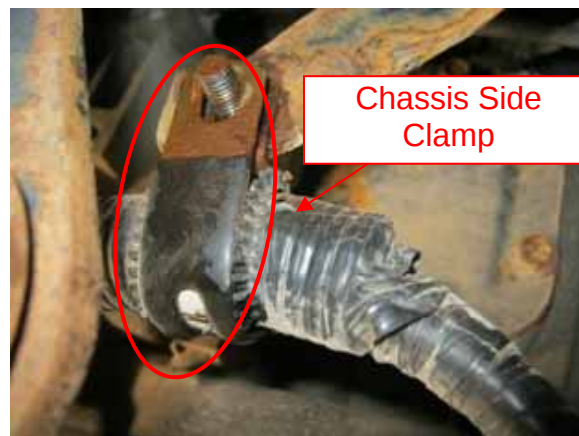
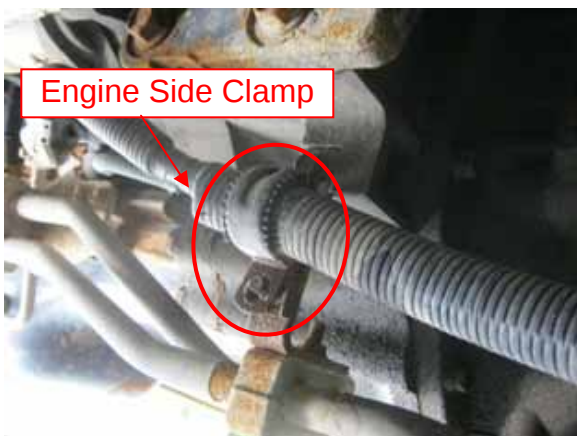
SAFETY RECALL

8. Locate the starter cable just below the inboard edge of the driver side frame rail. Remove each nut that secures each of the 2 starter cable steel clamps. One clamp is located on an engine side mounting bracket and the other on a chassis side mounting bracket.



9. Remove the starter cable from both the chassis and the engine mounting brackets.

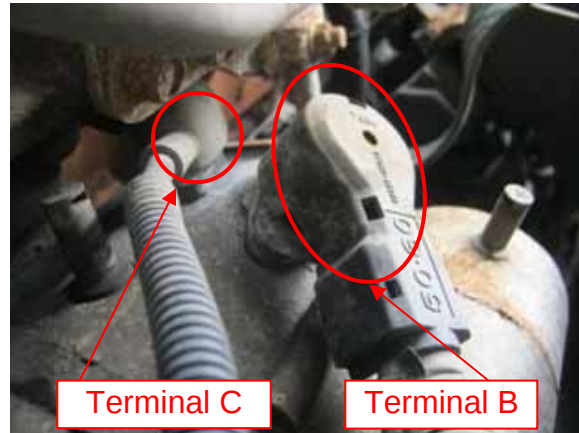
NOTE: Discard the two starter cable steel clamps. Two new clamps will be provided in the replacement starter cable kit.



SAFETY RECALL

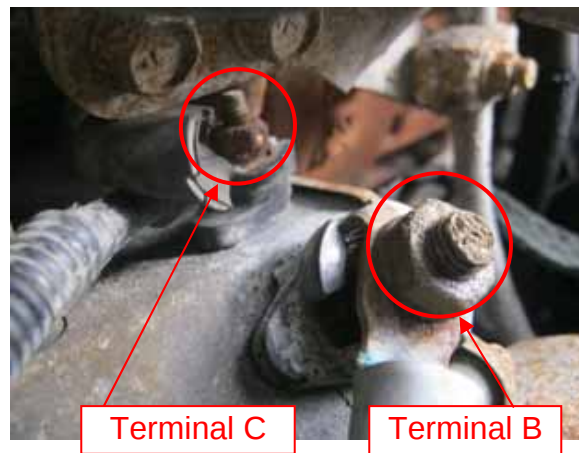
10. Remove the protective caps from terminal B and terminal C on the starter.

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



11. 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.

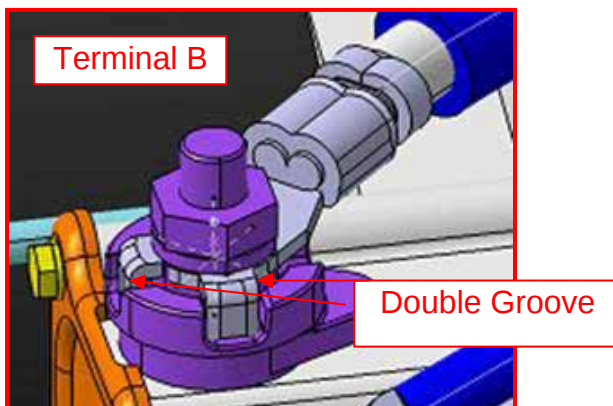
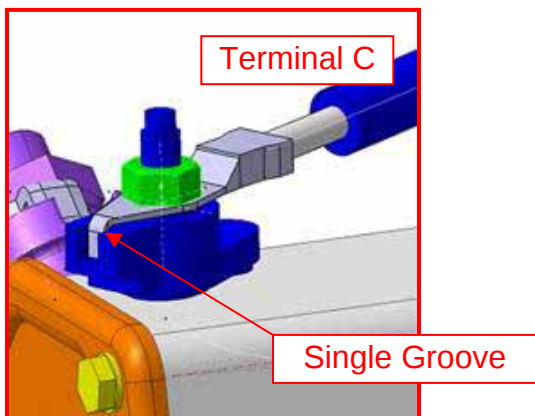


NOTE: Do not discard the terminal C nut, terminal B nut and terminal B lock washer. These will be reused during starter cable installation.

SAFETY RECALL

Starter Cable Installation

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

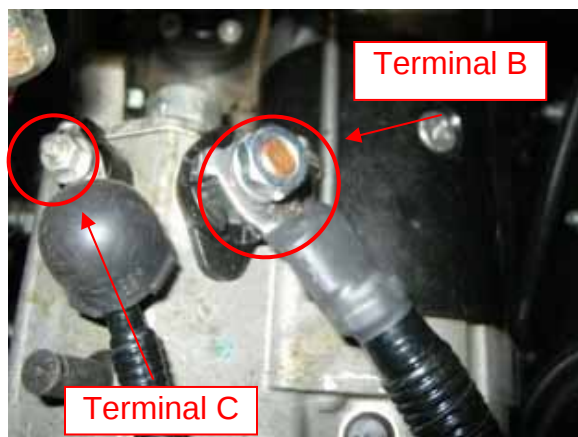


2. Install the lock washer and nut on terminal B and install the nut on terminal C. Torque both nuts to the specified torque.

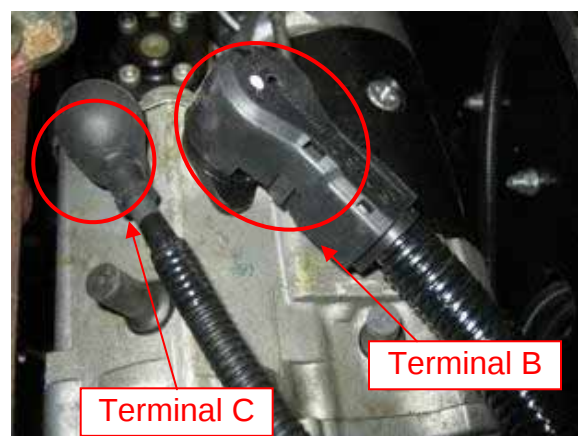
Specified Torque

Terminal B Nut: 15.5 lb-ft (21.0 Nm)

Terminal C Nut: 1.81 lb-ft (2.5 Nm)

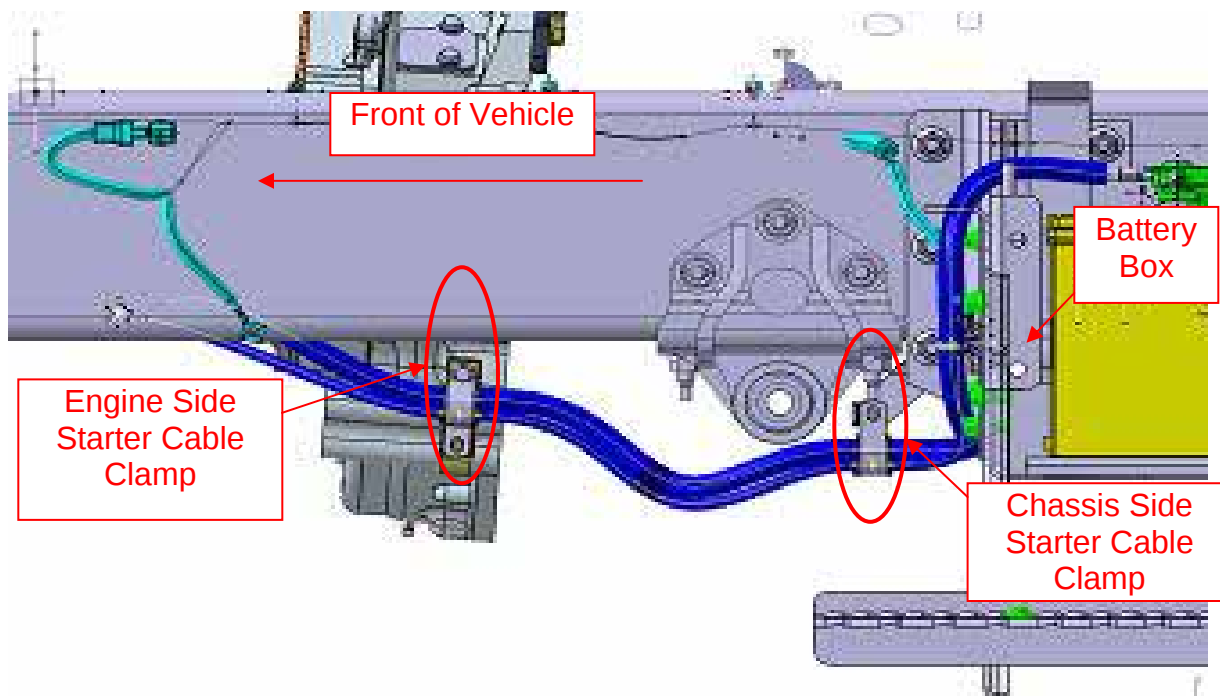


3. Install the terminal B plastic cap and the terminal C rubber cap.



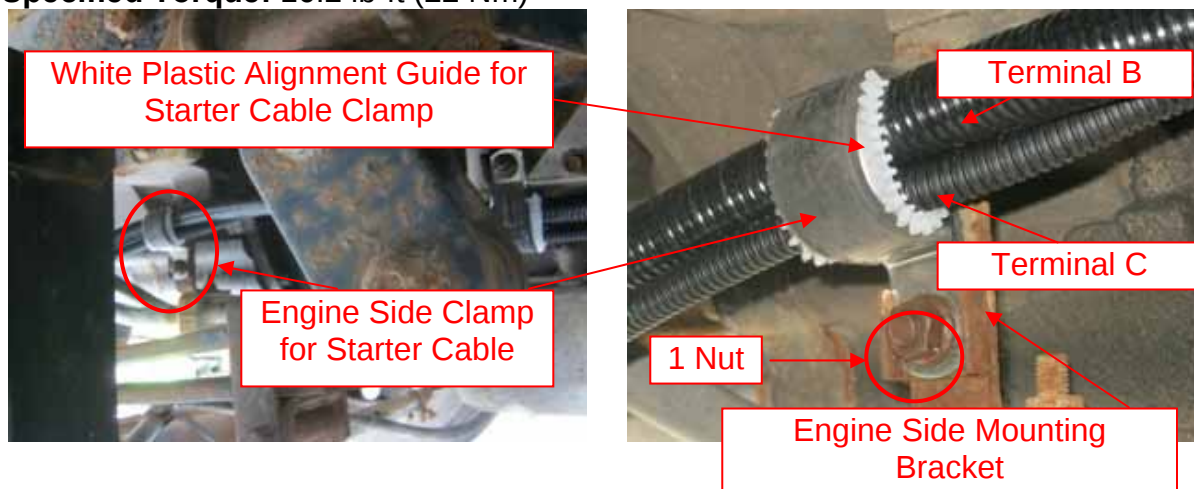
SAFETY RECALL

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



5. 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. Install the nut and torque to the specified torque.

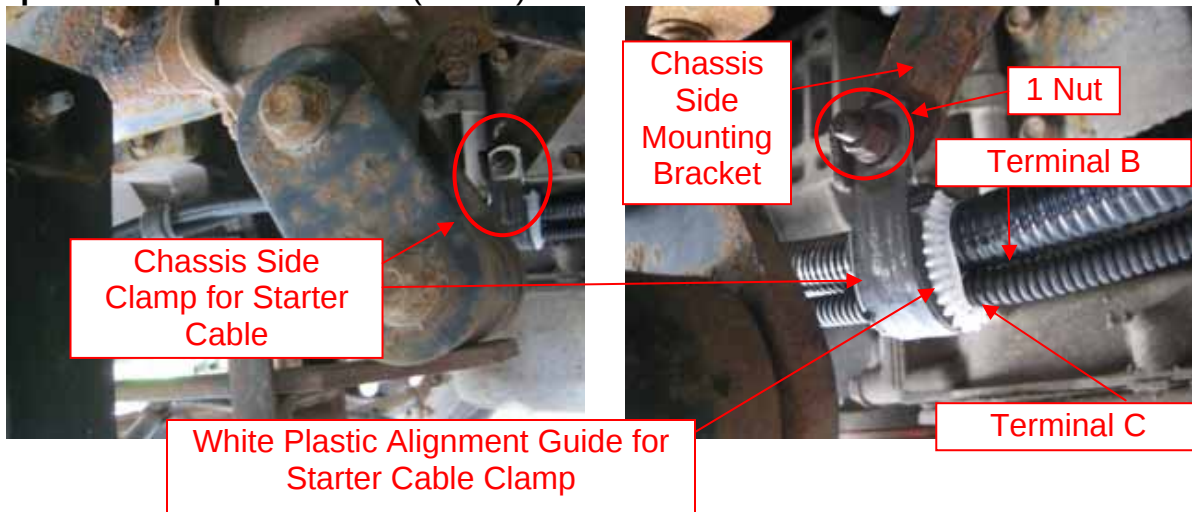
Specified Torque: 16.2 lb-ft (22 Nm)



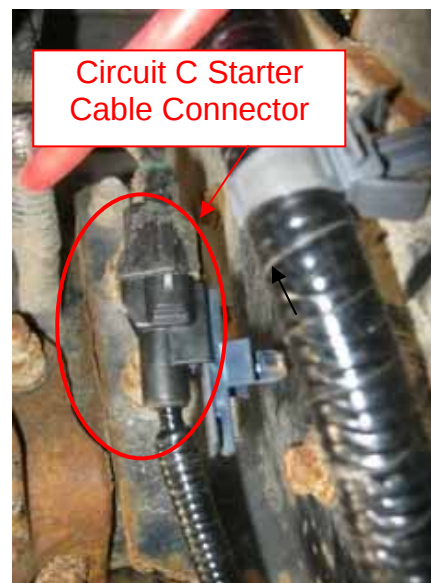
SAFETY RECALL

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. Install the nut and torque to the specified torque.

Specified Torque: 16.2 lb-ft (22 Nm)

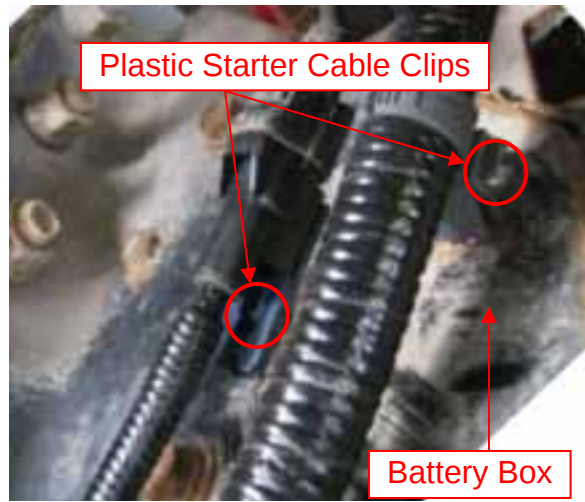


7. Connect circuit C starter cable connector.

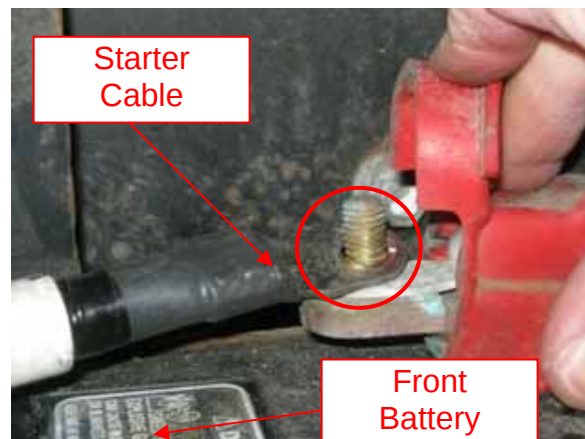


SAFETY RECALL

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

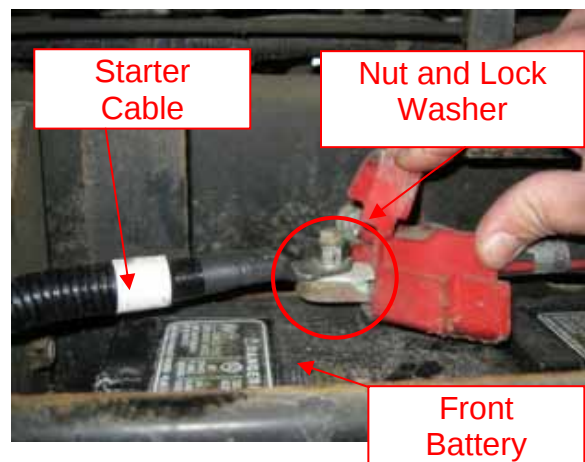


9. Connect the starter cable to the positive terminal of the front battery.



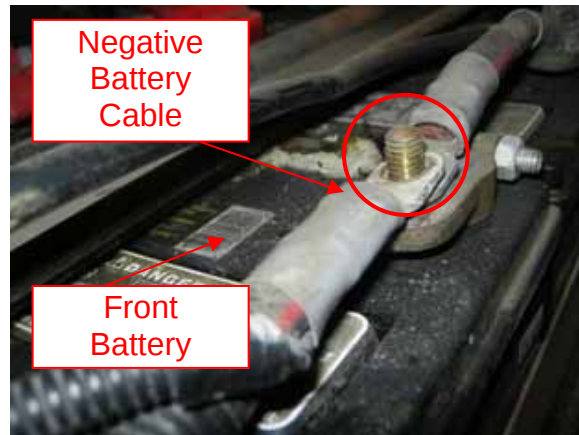
10. Install the nut and lock washer that secures the starter cable to the front battery positive battery terminal. Torque to the specified torque.

Specified Torque: 8.1 lb-ft (11.0 Nm)



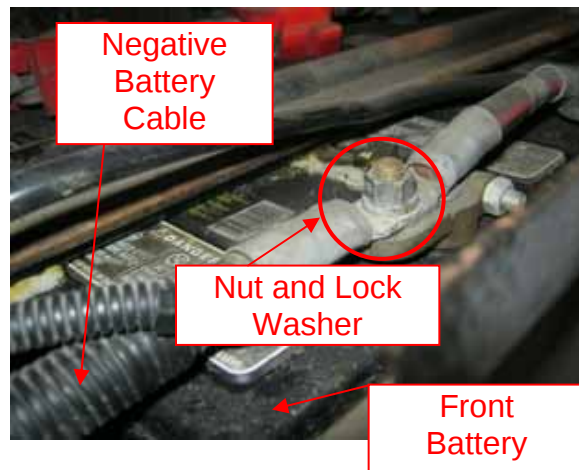
SAFETY RECALL

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



12. 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)



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

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

FINAL INSPECTION:

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

- The starter cable routing is correct with no twisting.
- 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:

- 1) Claim No.: A8310
- 2) Labor charge: 1.2hr / unit
- 3) Warranty code: 8214198
- 4) Operation code: 82107ARE
- 5) Original failed part number: 9999999999