



Gas Fuel Harness Connector, CNG CXU

PI0848, Gas Fuel Harness Connector, CNG

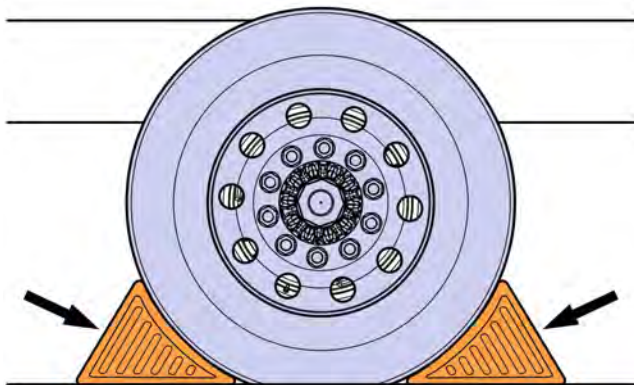
(June 2014)

On certain MACK CXU models equipped with Compressed Natural Gas (CNG) engines, built between 07/01/2013 and 12/30/2013, there may be missing wire seals in the harness that connect the chassis to the tank. This could cause corrosion in connections as well as allow the water to wick up to the chassis connector. This is due to a supplier issue during the assembly of the harness.

Inspection

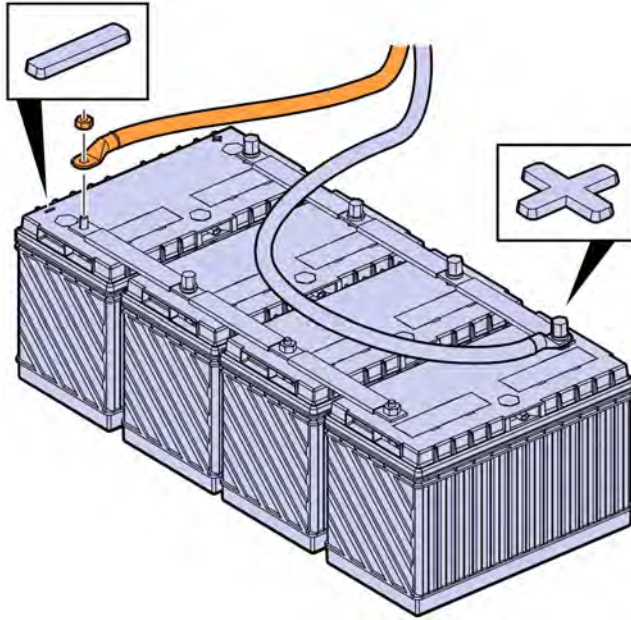
You must read and understand the precautions and guidelines in Service Information, group 3, "General Safety Practices, Electrical" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 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.



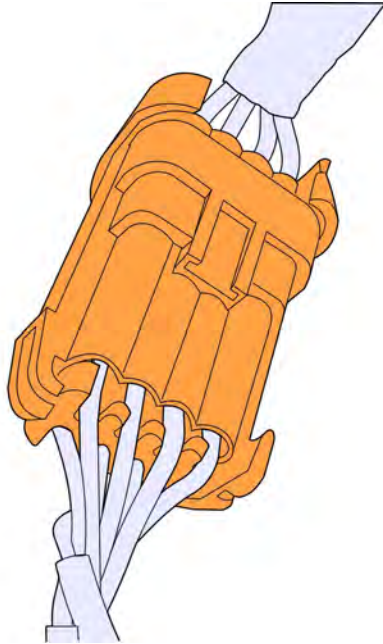
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- 2 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.



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- 3 Disconnect the harness connector and remove safety lock.



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CNG tank side connector

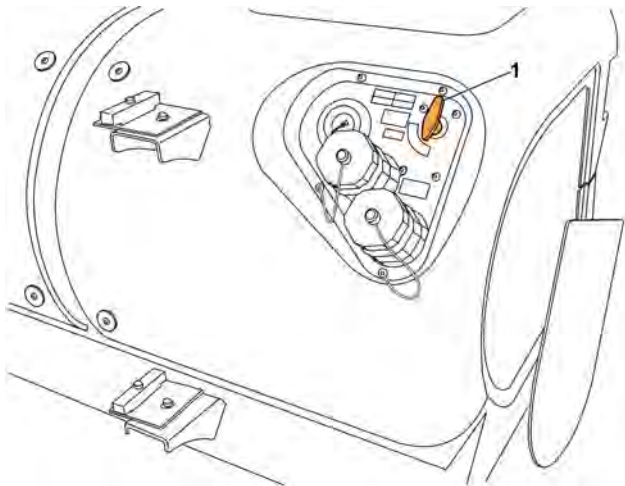
- 4 Look for seals on the wires on the CNG tank side connector.
 - A. If seals present reconnect the connector and continue to step 5.
 - B. If **NO** seals present to go to repair procedure on page 4.
- 5 Install all the previously removed cables to the negative (ground) battery terminals.
- 6 Start engine and check operation.

Repair

Required Parts

Quantity	Part Number	Description
1	20469544	Cloth Tape
A/R	3949524	Butt Splice
A/R	Local Supply	Heat Shrink Tubing
A/R	948211	Cable Ties

- 1 Turn the CNG fuel system off, follow procedures as outlined:
1a. Turn the Manual Fuel System valve (red knob) to Closed.

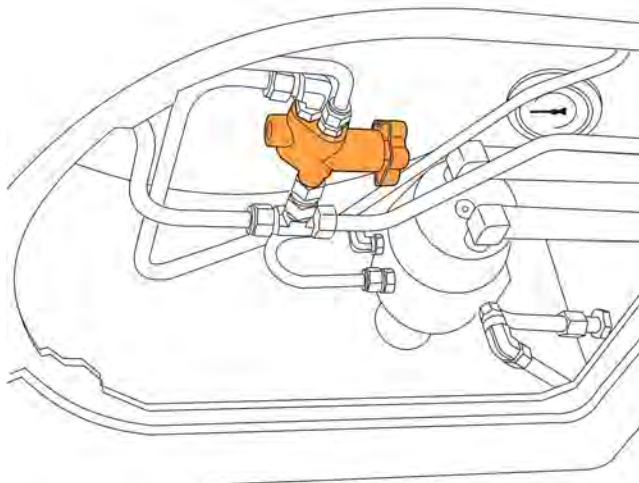


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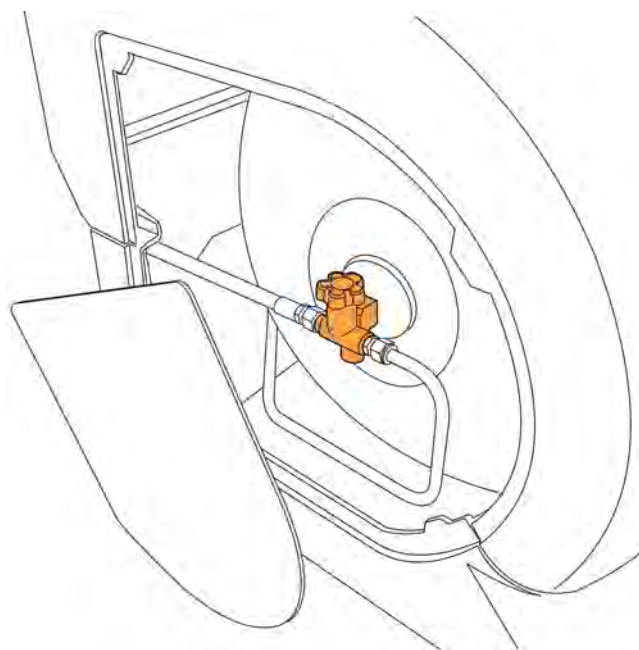
1. CNG Fuel System Shut Off Valve

Note: This valve isolates the fuel system from the engine.

- 1b. Open rear access door(s) on both tank(s) if applicable.
1c. Turn each tank valve OFF.



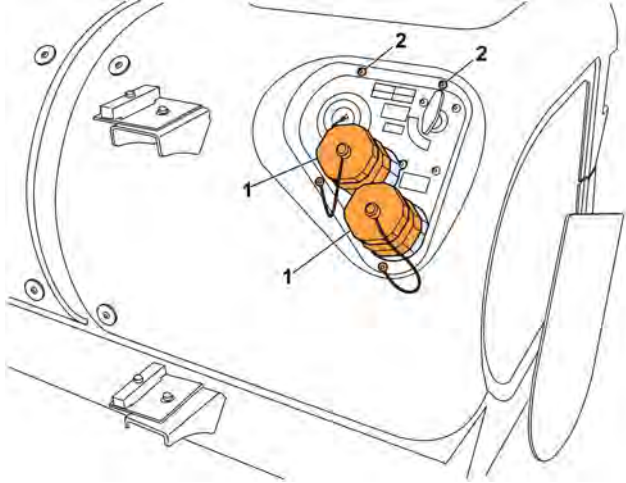
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Note: This will isolate each fuel tank separately from the CNG fuel system.

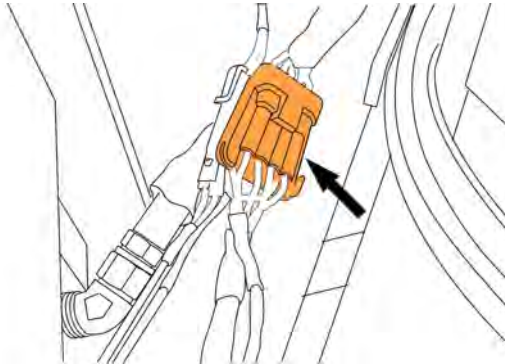
- 2 Remove the fuel caps, and let hang freely.



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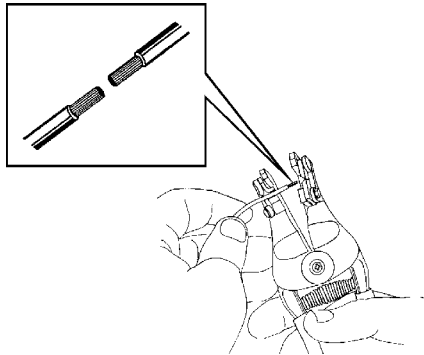
1. CNG fuel caps

- 3 Disconnect the CNG tank harness.

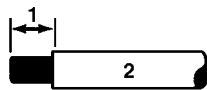


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- 4 Remove loom and tape from each section of wire harness back approximately 2 inches.
- 5 Cut each connector off of harness and strip each of the wires to length (8mm).



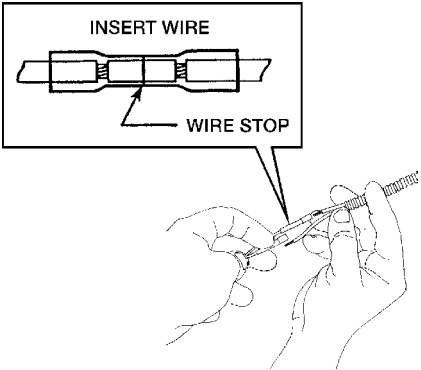
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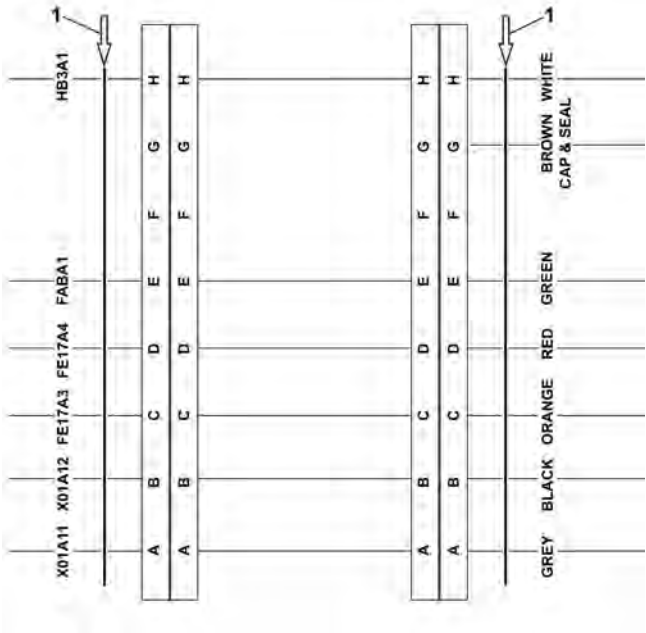
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1. Strip as necessary
2. Wire

6 Install butt splices and shrink tubing onto each section of wire to be spliced.



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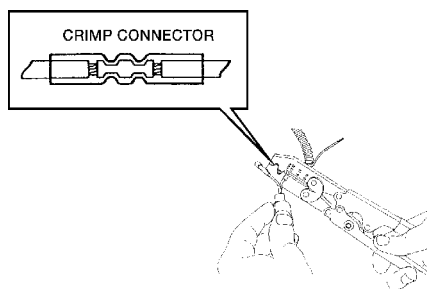
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1. Cut wires Here

Note: Follow schematic diagram so that all wires are mated together properly.

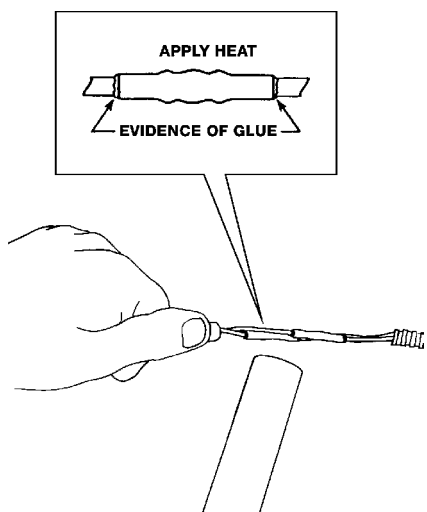
- 7 Crimp butt splices together.

Note: Ensure each wire is spliced according to the schematic diagram.



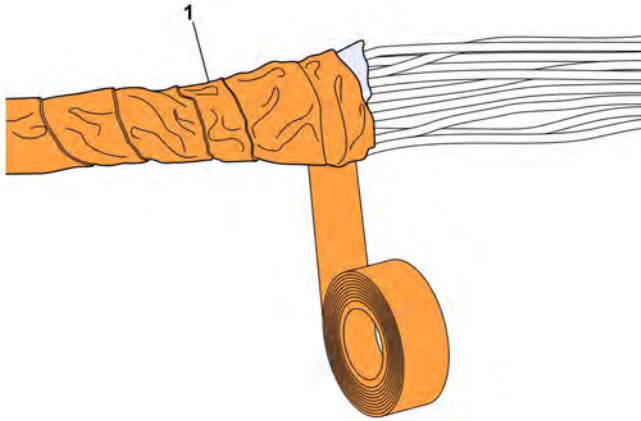
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- 8 Shrink the tubing.



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- 9 Tape the harness together with cloth tape.



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1. Tape

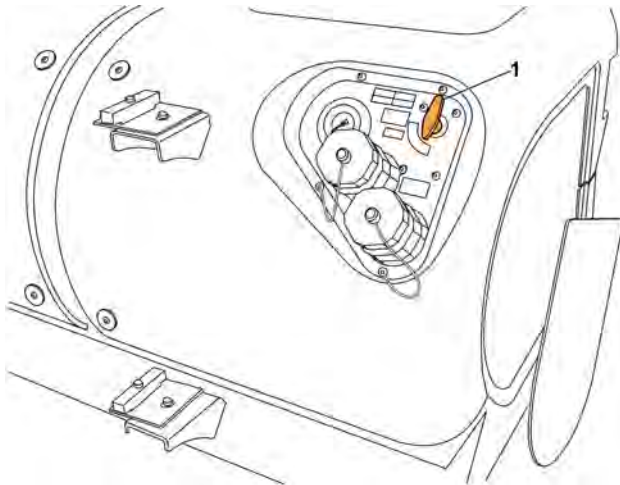
Note: Overlap the tape by 1/3 each time a wrap is made.

- 10 Secure the harnesses with cable ties as need.

- 11 Turn fuel system ON, follow procedures as outlined:

- 11a Turn tank valve(s) on

- 11b "SLOWLY" turn the Fuel System Valve (red knob) to OPEN.



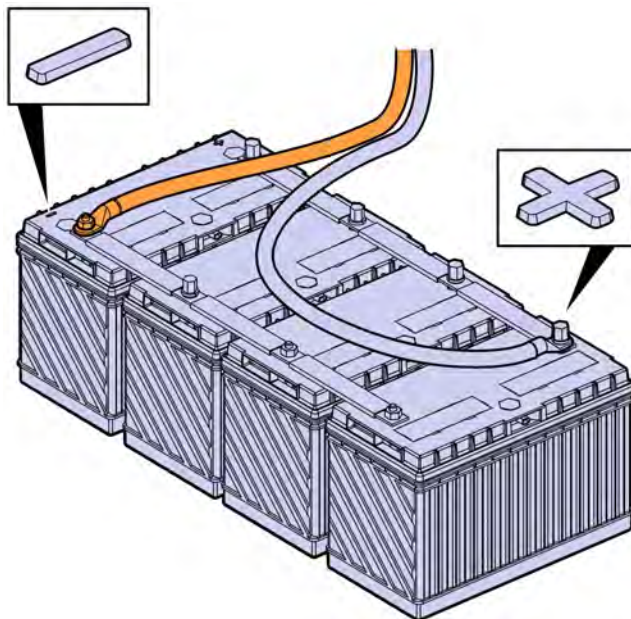
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1. CNG Fuel System Shut Off Valve

Note: Allow approximately 10 seconds of time to perform.

Caution: Failure to slowly open valve could cause damage to system by high pressure gas if opened too quickly.

12 Install all the previously removed cables to the negative (ground) battery terminals.



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13 Test the safety feature of the system.

13a. Start engine and then turn the engine off.

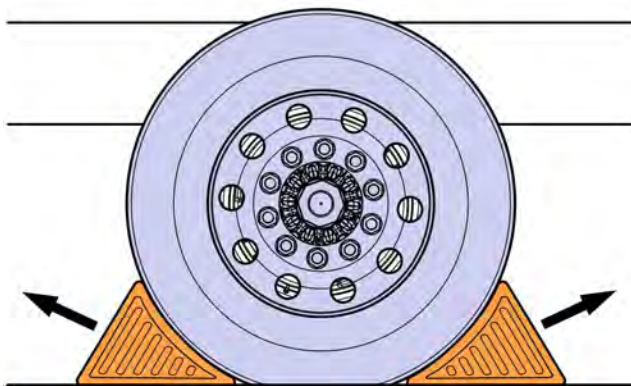
13b. Remove both tank caps and try to start the engine.

- If the engine does not start, the safety feature is working properly. Proceed to next step.
- If the engine starts, the safety feature is not working correctly and will need to be serviced.

Note: See Agility for more information.

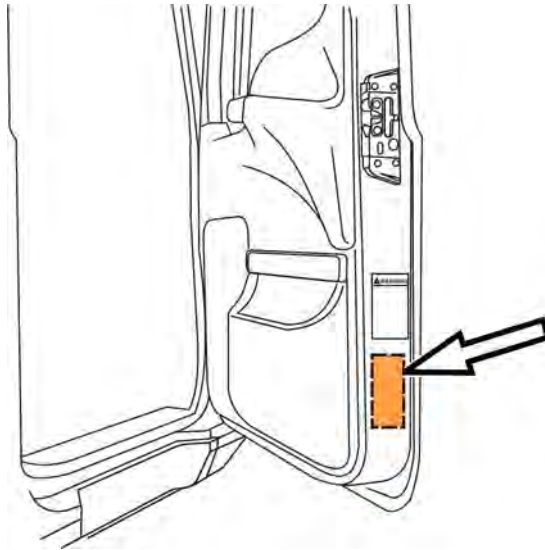
14 Install both fuel caps.

15 Remove the wheel chocks.



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Note: To signify that the campaign has been completed, using a permanent-type marker (such as a Sharpie®) write the campaign number (PI0848) and completion date in the spaces provided on the Campaign Completion label located inside the cab as shown in the illustration below. If a label is not already affixed inside the cab, apply a label (part No. TS897) and supply the information as required. Campaign Completion labels are available in packs of 50 and can be ordered by faxing a completed BR313 to Pacesetters Business Services at 610-264- 9465.



W8034103

Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.	UCHPReimbursement	eWarranty Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	41	41
Recall Status		
Vehicle inspected, repair not required		1- Inspected OK
Vehicle repaired per instruction		2- Modified per instruction
Labor Code		
Primary Labor Code Inspection	3000-06-09-01 0.3 hrs	2315G-ZP-96 0.3 hrs
Repair only	3739-03-09-01 0.6 hrs	2315H-ZP-96 0.6 hrs
Take to take charge and determine campaign status	1700-16-01-01 0.3 hrs	101AA-0A-00 0.3 hrs
Causal Part	22164989 or 22242223	22164989 or 22242223
Parts Disposition		
SCC Code	S6577	NA
Authorization Number	NA	PI0848
Expiration Date	19- June- 2015	19- June- 2015

Note: 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 repair visit. If vehicle is having other warranty repairs performed, take charge should be charged to the warranty repair, otherwise take charge can be charged to this service program.