



This Service Program replaces PV729-PI0847 (USA 65290), "Fuel Management Module, Replacement" dated 7.2014.

Date	Group	No.	Release	Page
7.2014	<b>386</b>	<b>847</b>	<b>02</b>	1(10)

## Fuel Management Module, Replacement CXU w/LNG

### PI0847, Fuel Management Module, Replacement

(July 2014)

On certain Mack LNG (Liquid Natural Gas) models, built between 08/01/2013 and 05/09/2014, the low fuel warning may come on too early. In addition the fuel gauge may show full if the fuel level sensor signal becomes open. This is due to the fact that the software in the fuel management module (FMM) did not have the correct calibration and open circuit fault criteria.

To correct this issue follow the procedure below:

#### Required Parts

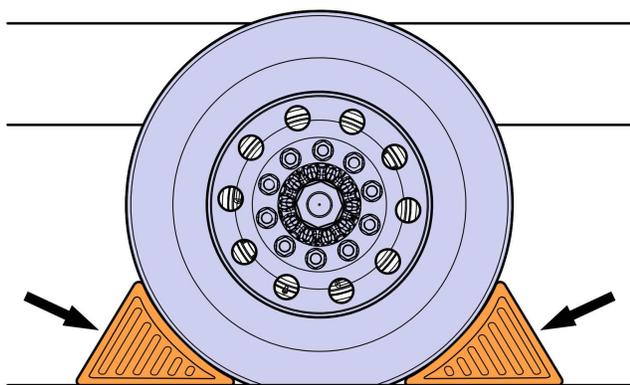
Quantity	Part Number	Description
1	85142764	Control Unit LNG Fuel Levels

### Repair

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.

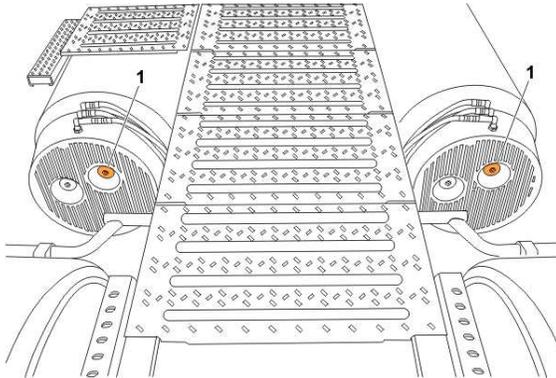
#### Rail Mounted FMM

- 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.



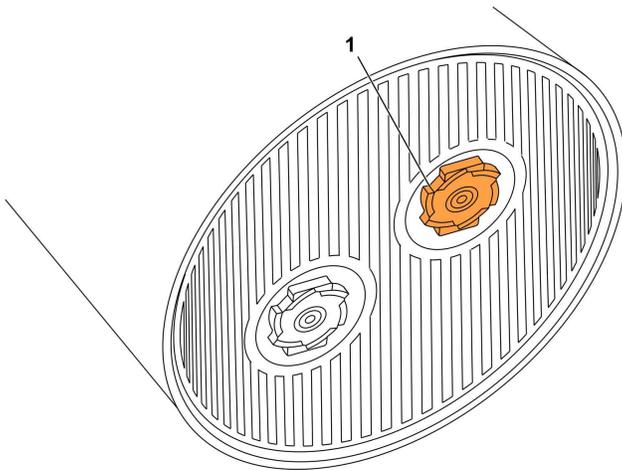
W7086748

- 2 Turn the LNG fuel system off, follow procedures as outlined:
  - 2a. Ensure the vehicle is in a well ventilated area.
  - 2b. Turn the Manual Fuel System valve (red knob) to Closed on both tanks (if applicable).



W3091875

1. Shut-off Valve



W3091529

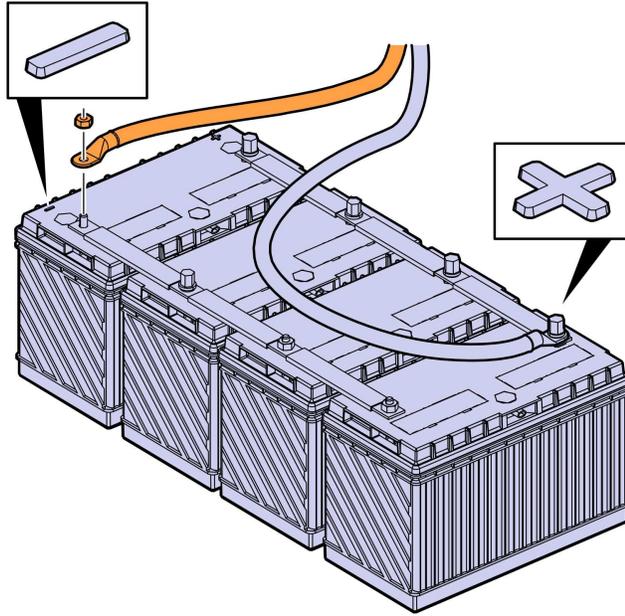
1. Shut-off Valve

- 2c. Start the vehicle and run the engine until it stops.
- 2d. Remove ignition key.

**Note:** This will ensure the vehicle is off and proper vehicle lock-out procedures have been followed.

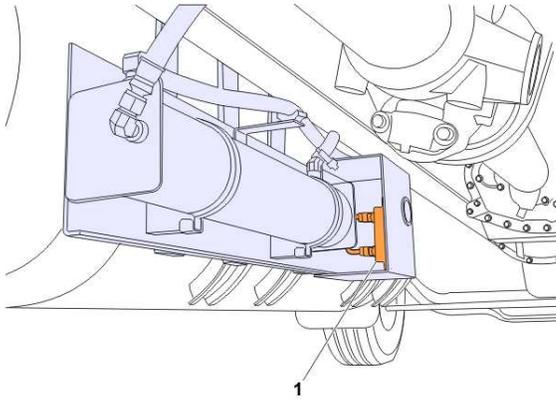
**Note:** The system is now depressurized and all fuel is confined to the tank.

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



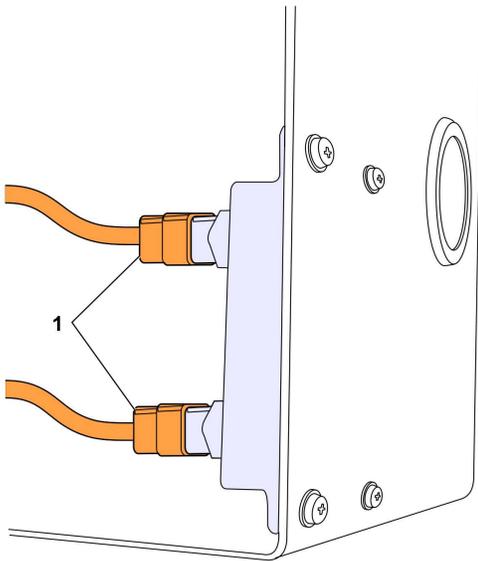
W3086747

4 Disconnect the FMM harnesses.



W3091876

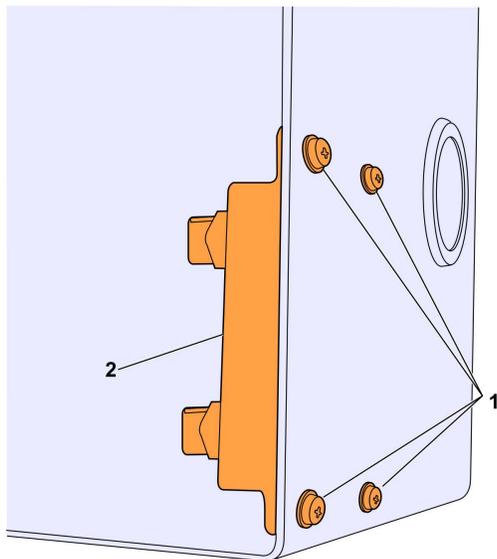
1. FMM Module



W3091186

1. Harnesses

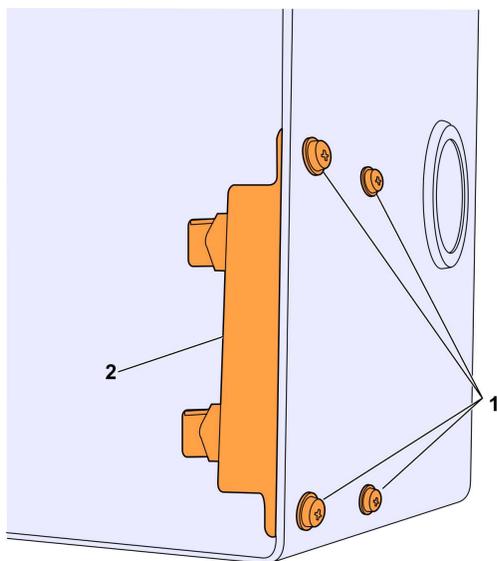
5 Remove FMM.



W3091187

- 1. Fasteners
- 2. FMM Module

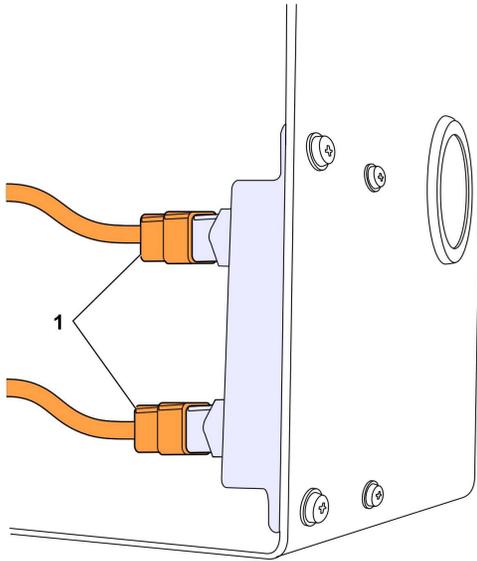
6 Install new FMM



W3091187

- 1. Fasteners
- 2. FMM Module

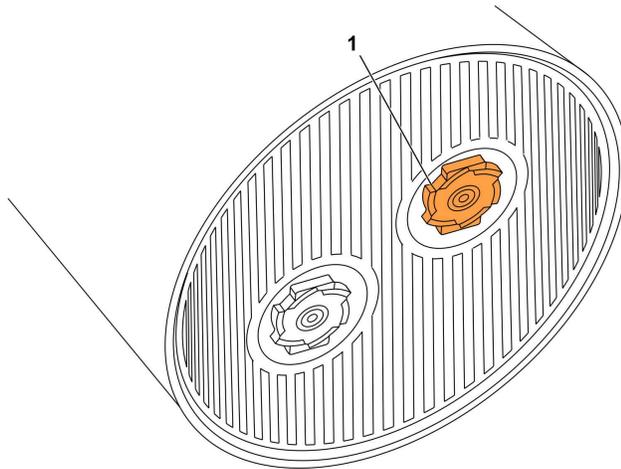
7 Connect the FMM harnesses.



W3091186

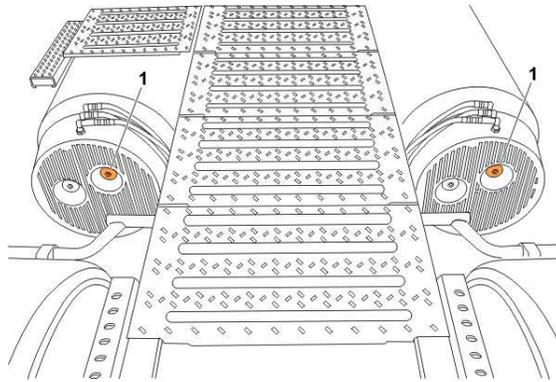
1. Harnesses

- 8 Turn fuel system ON, follow procedures as outlined:
  - 8a. Turn tank valve(s) on.
  - 8b. "SLOWLY" turn the Fuel System Valve(s) (red knob) to OPEN.



W3091529

1. Shut-off Valve



W3091875

1. Shut-off Valve

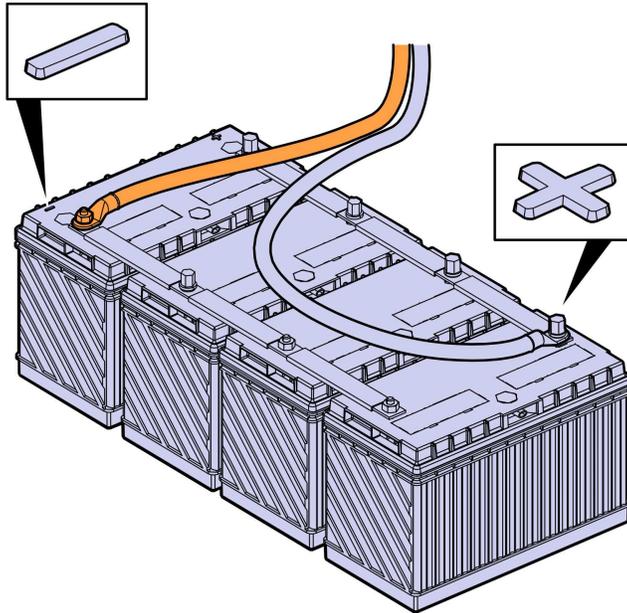
**Note:** Allow approximately 10 seconds of time to perform.



**CAUTION**

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

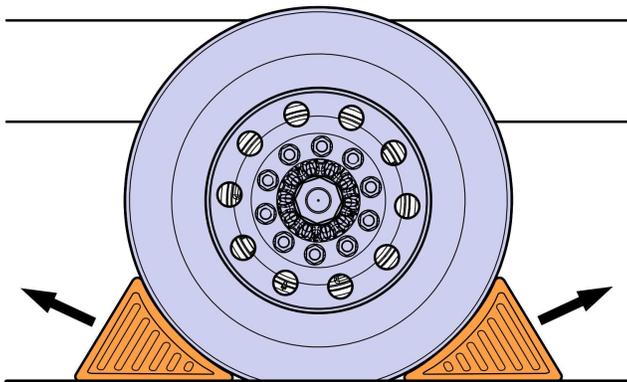
9 Install all the previously removed cables to the negative (ground) battery terminals.



W3086758

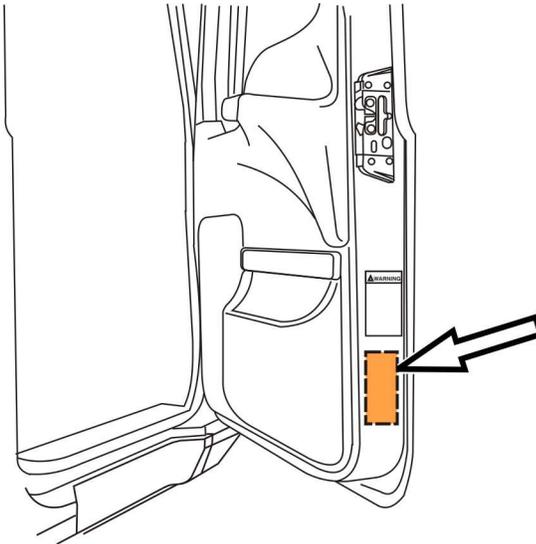
10 Start the engine and check for proper operation.

11 Remove the wheel chocks.



W7086759

**Note:** To signify that the campaign has been completed, using a permanent-type marker (such as a Sharpie®) write the campaign number (PI0847) 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**

<b>This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.</b>	<b>UCHPREimbursement</b>	<b>eWarranty Reimbursement</b>
<b>Claim Type (used only when uploading from the Dealer Bus. Sys.)</b>	41	41
<b>Recall Status</b>		
Vehicle inspected, repair not required		1- Inspected OK
Vehicle repaired per instruction		2- Modified per instruction
<b>Labor Code</b>		
Primary Labor Code	3866-03-09-03 0.3 hrs	2315F-ZP-96 0.3 hrs.
Take to take charge and determine campaign status	1700-16-01-01 0.3 hrs	101AA-0A-00 0.3 hrs
<b>Causal Part</b>	85142764	85142764
<b>Parts Disposition</b>		
<b>SCC Code</b>	S6576	NA
<b>Authorization Number</b>	NA	PI0847
<b>Expiration Date</b>	07- July- 2015	07- July- 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.