

## Methane Detection System Will Not Warn the Operator if the System **Loses Power**

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Title (metadata)	21PBN / 21KWH – LNG/CNG Methane Detection System Will Not Warn Operator if System Loses Power – NHTSA ID: 21V00N, TC: 2021-793				
Bulletin No.	21PBN / 21KWH				
Description	21PBN / 21KWH – LNG/CNG Methane Detection System Will Not Warn Operator if System Loses Power				
Supplier	Peterbilt / Kenworth				
Section	Fuel - 44				
What's New Abstract	Safety Recall – The methane detection system will not warn the operator if the system loses power. The driver could be unaware of an issue with the methane detection system or excessive methane present, increasing the risk of a fire, crash, or injury.				
Revision					
Introduction	On certain LNG and CNG vehicles, the methane detection system may not function as designed. The driver may not be alerted by warning lamp and buzzer if the methane detection system loses power.				
Situation (Chassis Affected)	PB-244 (241 US / 3 Canada) Model 536, 567 and 579 chassis model year 2016 through 2022 LNG and CNG vehicles built from 06/01/2015 through 11/30/2021 with a methane detection system.				
,					
Resolution	Safety Recall				
	Service all affected chassis that enter your dealership, even if the customer has no issue with the chassis.				
	<ol> <li>Review the attached chassis list for your dealer code and schedule your customer(s) for service if their chassis is on the list.</li> <li>If you are not using Service Management to start repair orders, review SIR for "Complete" or "In Process" next to the "21PBN" (KW: 21KWH) campaign code prior to performing this repair.</li> <li>Follow the procedures below to rework the methane detection wiring.</li> </ol>				

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	Contact customer to schedule an appropriate repair date that coincides with parts availability.						
Federal Law	It is a violation of Federal law for a dealer to sell or lease new vehicles covered by this recall until the defect or noncompliance has been corrected.						
Warranty	PETERBILT WARRANTY STATEMENT						
	<ul> <li>There is no time or mileage limit for this recall. Peterbilt will pay for parts at dealer net plus applicable mark up and labor:</li> <li>1.8 hours labor to rework the methane detection wiring. Use Quick Claim Code 21PBN</li> <li>There is no time or mileage limit for this recall. Peterbilt will pay for parts at dealer net plus applicable mark up and labor:</li> <li>File an additional claim for extraordinary circumstances. A quick claim for standard labor must be filed first.</li> <li>File the claim within 14 days in accordance with Warranty Policy.</li> </ul>						
	Take-Off Parts Disposition:  PRWS CLAIM CODING						
	Campaign Code:	21PBN (21KWH)	Campaign Type	Safety Recall			
	Claim Category:	Truck	Repair Type	Proactive			
	Customer Concern Code	029	Causal Code	A1			
	Corrective Action Code	12	Responsibility Code:	Camp			
	Failure Location	051-006-014	Causal Part	18138			
	Supplier Code	N/A	SRT Code	B21-PBN - 1.8 hours for methane detection rework.			

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	Display in SIR	Always Visible	Editable by dealer?	Yes	
	KW AutoPay	No	PB AutoPay	No	
Parts	Parts are available from PACCAR Parts.				
	QuantityPart NumberDescription1S92-1250-1000HARNESS - SPARE POWER OPT1S92-6694METHANE DETECTION REWORK HARNES				
Background					
Procedure	Please follow your dealership's safety procedures and precautions to ensure the vehicl can be safely repaired and maintained.  Locate the appropriate rework procedure in the Links section.				
Links	Model 567 / 579 Model 536 Rewo Chassis List US Customer Le Canada Custome Canada Custome	ork Procedure tter er Letter – Engl	lish		
Channels	KWUS □ KWCA PBUS⊠ PBCA⊠ Same bulletin pu		& PB regions? Choos	se an item.	
Publish On	Click or tap to er	iter a date.			



SRT	SRT TIME	ACTUAL TIME	TIME STUDY DATE	MODEL
B21-PBN	1.8	1.76	11/23/2021	579

#### **RE-INSTALL IN REVERSE ORDER**

## **METHANE DETECTION REWORK**



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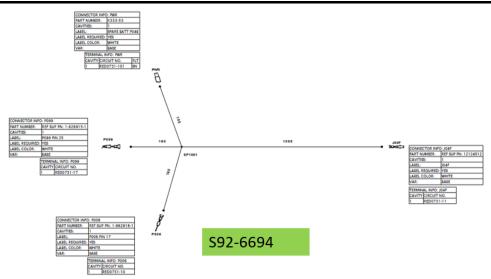
# **METHANE DETECTION REWORK**

Harness

S92-1250-1000



Methane detection rework harness \$92-6694









**Step 2:** Remove Lower panels on LH side (5 screws) (2 connectors)



**Step 3:** Remove Fire extinguisher





**Step 4:** Remove LH door sill plate (4 screws)



**Step 5:** Remove LH front handle (3 bolts)

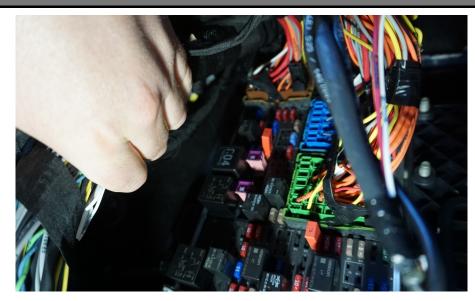


**Step 6:** Remove LH foot rest (2 screws)





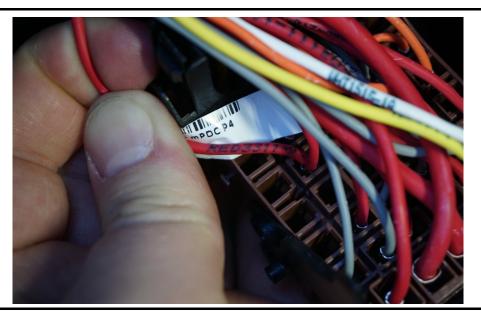
**Step 7:** Remove zip ties securing harness



**Step 8:** Gently pull harness out of the wat and remove P004 connector (brown)



Step 9: Locate and cut wire RED 3311-9

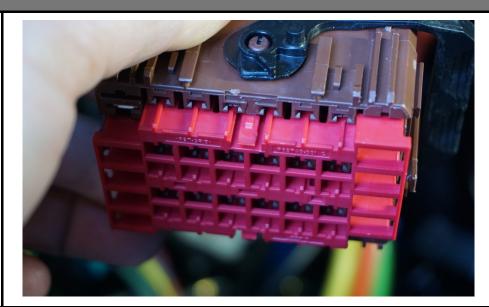




#### **METHANE DETECTION REWORK**

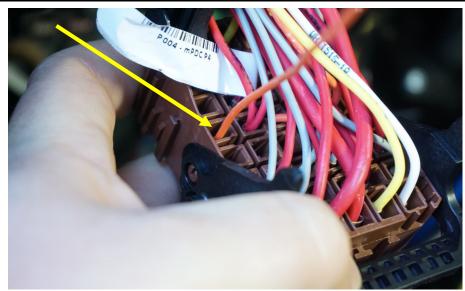
NOTE: The secondary lock must be released in order to add a wire terminal to the connector.

See photo:



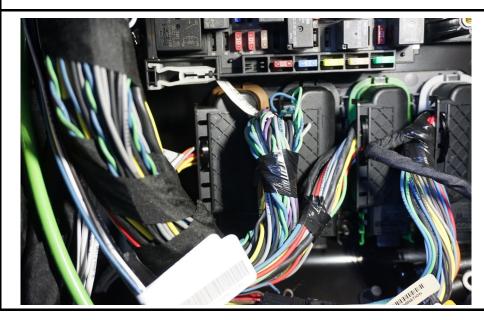
**Step 10:** Add terminal to wire red3311-9 and re-locate to position B4

See photo, orange wire:



**Step 11:** Remove 4 firewall pass-through connectors:

NOTE: Must be removed from outside.



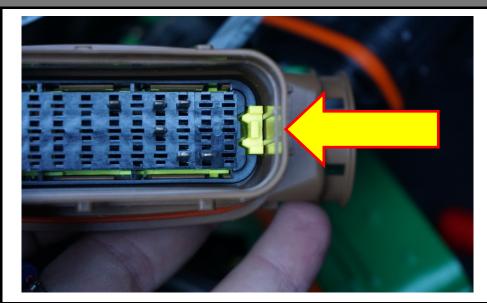


# **METHANE DETECTION REWORK**

**NOTE:** The secondary lock is released by sliding the yellow tab towards the pins until it clicks.

Be sure to lock the secondary lock after replacing wires.

The disconnected wires must be cut, then insulated with tape or heat shrink tubing



**Step 12:** Replace pin 25 in connector P099 (brown) with RED0731-17 on the rework harness:



**Step 13:** Replace pin 17 in connector P006 (gray) with RED 0731-10 on the rework harness:



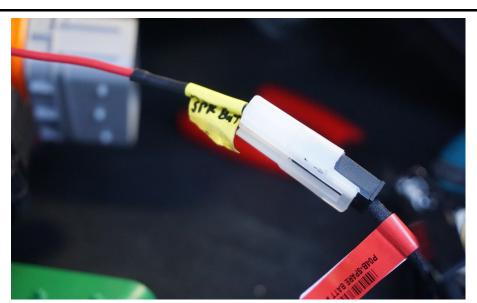


**Step 14:** locate spare power connector (tied back near the firewall pass through connectors) and plug in harness S92-1250-1000

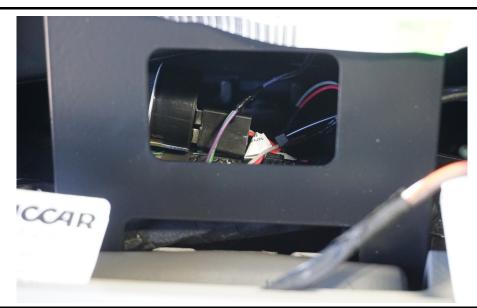




**Step 15:** Plug the rework harness into terminal P04B Spare batt 1



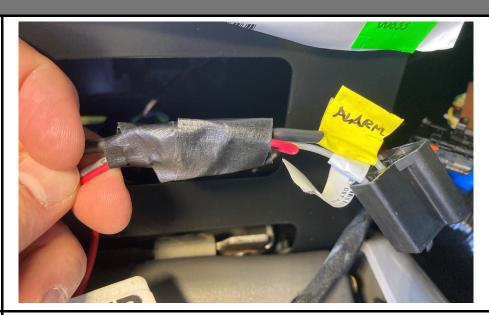
**Step 16:** Remove the C,B panels and dash cluster, then locate the methane detection alarm (located behind the dash cluster)





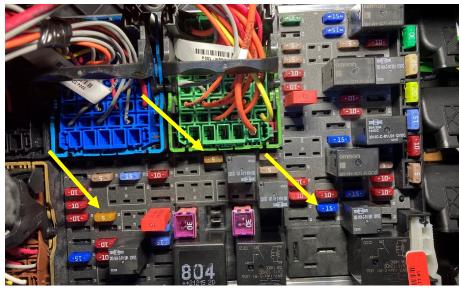
#### **METHANE DETECTION REWORK**

**Step 17:** Re-pin alarm connector power wire with the rework harness, then insulate the unused cable and secure the alarm in its original position.

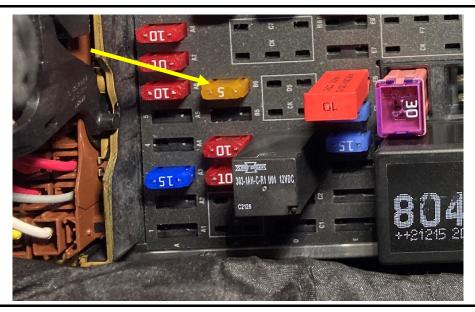


**Step 18:** Move the 15 Amp fuse in location B6 to M6, then insert 5Amp fuses in locations B6 and G10

Note: location G10 may be populated with a 20Amp fuse from the factory, replace it with the 5Amp fuse



**Step 19:** Re-assemble all components, secure all harnesses with zip ties, then re-supply power to the cab.





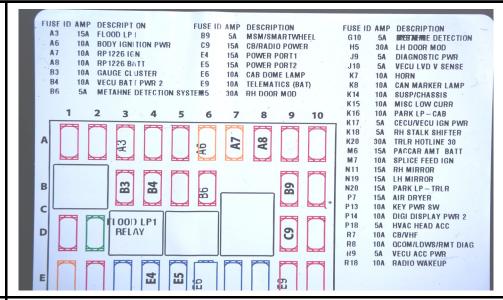
#### **METHANE DETECTION REWORK**

**Step 20:** Correct the fuse labels on the fuse label:

B6-Methane detect (5A)

M-PACCAR AMT (15A)

G10-Methane Detect (5A)



**Step 21**: Verify functionality by removing the 5Amp fuse in location B6. The methane detection alarm should sound.