



## Solution

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**Title (customer effect)** Aftertreatment Control Module ( ACM ) Diagnostic Trouble Codes ( DTC ) U0001-88 and U0010-88 Lighting The Malfunction Indicator Lamp ( MIL ); Possible Derate Warning – US10 And Newer Chassis

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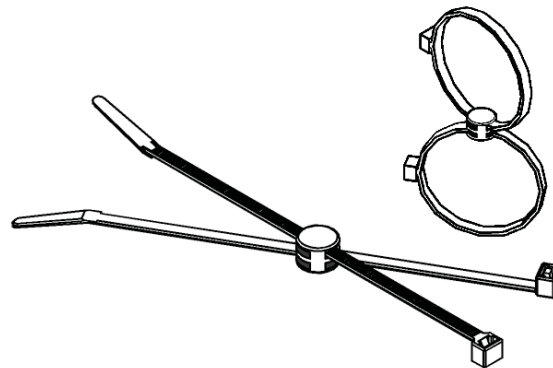
**Cause** ACM harness rubbing and chafing can cut into wires, resulting in DTCs and loss of communication with the ACM. ACM faults can result in derate conditions.

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## Solution

### Required Parts

- Separator Tie, Part 20885497:



- Harness Tape, Part 20469544

### Inspection

If either of these codes are present, check the wiring harness for damage or chafing in the following areas:

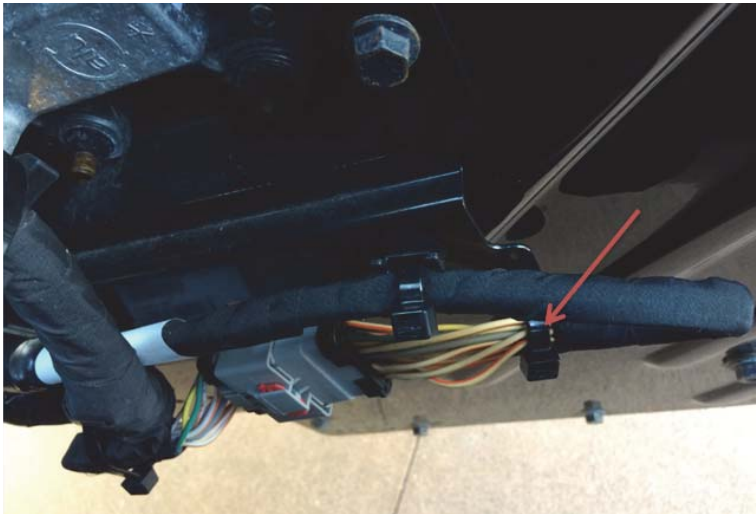
#### I. ACM Breakout Harness:

- A. Chafing or Rubbing between harnesses:



If contact between the harnesses is found, resecure them with a separator tie to keep them apart.

B. Chafing or Rubbing at the clipping point (cable tie) securing the harness near the FCUT connector:



If the cable tie is found to be cutting into the wire insulation, remove the cable tie, wrap the exposed wires in harness tape and re-clip the harness securely.

## II. Air Compressor Discharge Hose

Check the section of the AHI harness that passes by the air compressor discharge line:



If the ACM harness is rubbing the air compressor discharge hose, make sure the harness is clipped to the airline bundle securely as shown above. Attach a separator tie between the harness and the discharge hose to keep the two apart.

### III. Diesel Exhaust Fluid ( DEF ) Supply and Return Lines

Check the section of the AHI harness that passes by the DEF supply and return lines:



If the harness is contacting the DEF lines, attach a separator tie between the harness and the lines to keep them apart.

#### IV. Frame Rail

Check the area where the ACM harness passes by the frame rail:



The harness should not contact the edge of the frame rail. If there is contact with the edge, the harness needs to be properly secured to its clipping brackets so it is able to clear the rail.

Solution visibility	Dealer distribution
<b>Function(s)/component(s) affected</b>	
Function affected	battery/power supply , wiring harness , CAN BUS J1939 / BACKBONE 1 , CAN BUS BACKBONE 2 , CAN BUS POWERTAIN SUBNET , 2 1 0 ACM
<b>Function Group</b>	
Function Group	254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment , 286 engine wires and mounting parts , 37 cable; fuse
<b>Customer effect</b>	
Main customer effect	regeneration , efficiency/abnormal behavior , fault code/display
Visual appearance	fretted , loose , wear
<b>Fault code(s)</b>	
OBD 2013 Diagnostic Trouble Codes	U0010-88 , U000188
<b>Conditions</b>	
Vehicle operating mode	when driving , when stationary
Frequency of occurrence of problem	random

## Administration

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Author UT0538V

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Dealer ID RU4469V

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Last modified by RU4469V

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Creation date 30-01-2018 18:01

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Date of last update 08-02-2018 21:02

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Status Published

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Average score 5

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Number of scores 1

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## NA\_MACK\_Vehicle\_Range

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**NA\_MACK\_Vehicle\_Range** Conventional

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## NA\_VOLVO\_Vehicle\_Range

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**NA\_VOLVO\_Vehicle\_Range** Conventional

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## Engine family

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Engine family Volvo , Mack

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## Emission Standard

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Emission Standard 2018 , OBD2017 , US17 GHG , US16 , US15 , US13 OBD , US14 GHG

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