

TT7473EN
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SUBJECT: Freightliner Chassis Power Distribution Module (PDM) Electrical System Failures

MODELS AFFECTED: All Model Year 2010 to Present Freightliner Chassis Equipped with an Allison 1000/2000/3000/4000 Series Transmission

Introduction:

Freightliner Chassis have experienced electrical system failures powered through the Power Distribution Module (PDM). "Cracked Fuses" were found while investigating an intermittent Neutral condition while shifting. (Refer to [Figure 1.](#))



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Figure 1. Cracked Fuse

Description of Complaint:

Intermittent transmission shifting to Neutral with possible multiple DTCs related to TCM power loss.

Background:

Multiple vehicle electrical systems powered through the Power Distribution Module (PDM) are affected, up to and including:

- Engine Controller
- Transmission Control Module (TCM)
- Common Powertrain Controller (CPC)
- Motor Control Module (MCM)

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- Aftertreatment Control Module (ACM)
- Neutral Interlock
- Crank Enable, Start Enable



NOTE: This failure mode (cracked fuse, NOT blown) is only associated with the PDM. (Refer to [Figure 2.](#))



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Figure 2. Power Distribution Module (PDM)

OEM Service Channel Procedure:

Customers experiencing this issue should be directed to the Freightliner dealer for repair.

Reference: Daimler Trucks North America LLC-FSPR 20367.



NOTE: This issue is the responsibility of the OEM, and as such will not be repaired under Allison Transmission product warranty.



NOTE: The issue outlined in this document is not an Allison Transmission, Inc. defect in material or workmanship.
