



U.S. Department
of Transportation
**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 13-002
Date Opened: 02/07/2013
Investigator: Kyle Bowker
Approver: Frank Borris
Subject: Stop Lamp Switch Signal
Date Closed: 07/03/2013
Reviewer: Bruce York-B

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Volvo Trucks North America
Products: 2007-2012 Volvo Trucks Equipped w/ I-Shift Transmission
Population: 23,003
Problem Description: The stop lamp switch fails to send and/or the automated manual transmission control module fails to receive a signal indicating the brakes have been applied, thus inhibiting the clutch from automatically disengaging as intended.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	0	134	134
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
Fatality Incidents:	0	0	0
Other*:	0	164	164

*Description of Other: Subject vehicles with one or more warranty claims related to the problem description.

ACTION / SUMMARY INFORMATION

Action: This Preliminary Evaluation has been closed. See Safety Recall 13V268.

Summary:

The Office of Defects Investigation (ODI) received Early Warning Reporting (EWR) data from the manufacturer that indicated some number of subject vehicles equipped with the subject automated manual transmission had allegedly experienced a condition where the clutch failed to automatically disengage the transmission from the engine as intended. This may result in extended stopping distances and/or unintended forward motion of a vehicle previously at rest. To date, ODI is aware of 134 subject vehicles with one or more complaints or field reports related to this condition. Also, ODI is aware of 164 subject vehicles with one or more warranty claims related to this condition.

By letter dated June 25, 2013, Volvo Trucks North America (Volvo) notified ODI that it has initiated a safety recall (NHTSA Recall No. 13V268 and Volvo Recall No. RVXX1303) to address a safety defect in approximately 23,003 model year (MY) 2007 through 2014 Volvo VAH, VHD, VNL, VNM and VT model trucks. The affected vehicles were manufactured from December 20, 2006 through May 22, 2013 and were originally equipped with the subject automated manual transmissions.

According to Volvo, reports of the subject transmission clutch mechanism failing to automatically disengage as intended are associated with the removal of a brake pedal micro switch that provided a redundant signal to the transmission control module indicating the brakes had been applied. Previously, Volvo had removed this brake pedal micro switch from new vehicle production and from certain vehicles already in-service via two field service campaigns (SP 432-024 and SP 432-026) because it decided the switch was unnecessary and/or a maintenance issue. In the absence of this redundant brake pedal micro switch, the clutch mechanism may fail to disengage the transmission from the engine at low vehicle speed should the stop lamp switch fail to send and/or the transmission control module fail to receive the primary signal.

At the time of this closing, Volvo is evaluating available remedies and will provide NHTSA with details when the recall remedy procedure has been finalized. Volvo will notify affected owners by mail by August 25, 2013. Please see NHTSA Recall No. 13V268 for details. Accordingly, this investigation is closed.