



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 20-005
Date Opened: 04/28/2020
Investigator: Xiaoming Tan **Reviewer:** Bruce York-B
Approver: Stephen Ridella
Subject: mDRIVE Transmission Failure to Disengage

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Mack Trucks, Inc.
Products: 2013-2015 CHU and CXU Trucks w/Automated Manual Transmission
Population: 10,725 (Estimated)
Problem Description: The mDRIVE transmission clutch fails to disengage causing the truck to push through the service brakes.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	1	TBD	TBD
Crashes/Fires:	0	TBD	TBD
Injury Incidents:	0	TBD	TBD
Number of Injuries:	0	TBD	TBD
Fatality Incidents:	0	TBD	TBD
Number of Fatalities:	0	TBD	TBD
Other*:	0	Confidential	Confidential

*Description of Other: Manufacturer field reports.

ACTION / SUMMARY INFORMATION

Action: A Preliminary Evaluation (PE) has been opened.

Summary:

In a review of field reports submitted under Early Warning Reporting (EWR) 49CFR 579.22(c), over several years by Mack Trucks, the Office of Defects Investigation (ODI) identified a trend of drivers who complained that their transmissions failed to disengage from gear while slowing the vehicle. This failure to disengage resulted in the truck wanting to pull through the service brakes when coming to a stop. Affected trucks are equipped with an mDRIVE automated manual transmissions. The repair has involved the replacement and/or adjustment of the service brake switch.

ODI previously investigated (PE13-268) a similar concern on 2007-2012 Volvo Trucks equipped with an I-shift automated manual transmission in which the clutch would not automatically disengage as intended. The investigation resulted in Volvo releasing safety recall 13V-268.

Both Volvo I-Shift and Mack mDRIVE transmissions share similar configurations in their design and function. Mack is a subsidiary of AB Volvo who also manufacture Volvo trucks.

This Preliminary Evaluation is opened to examine the alleged defect in all affected vehicles.

The ODI report cited above can be reviewed at:
<http://www-odi.nhtsa.dot.gov/owners/SearchNHTSAID>
 using the following complaint identification number: 10839430