



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: EA 13-007
Prompted by: PE13-013, Consumer Reports
Date Opened: 08/23/2013
Investigator: Lawrence Hershman **Reviewer:** Scott Yon
Approver: Frank Borris
Subject: Loss of Low Beam Headlights

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: General Motors LLC
Products: 2005-2007 Chevrolet Corvette
Population: 103,107
Problem Description: Simultaneous loss of low beam headlights while driving.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	65	37	95**
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
Fatality Incidents:	0	0	0
Other*:	0	108	108

*Description of Other: Warranty reports that may related to loss of low beam headlights.

** Total eliminates duplicates received by ODI and manufacturer.

ACTION / SUMMARY INFORMATION

Action: Open this Engineering Analysis.

Summary:

The Office of Defects Investigation (ODI) opened this investigation as Preliminary Evaluation (PE) 13-013 based on 30 reports from consumers alleging that, after driving for a short time (5 to 30 minutes), both low beam headlights stopped working simultaneously and without warning. The low beam headlights remained inoperative for the remainder of the drive cycle, however no other lighting is affected.

General Motors (GM) provided information in response to ODI's information request letter explaining that the loss of headlights is caused by a fractured low beam circuit wire in the underhood bussed electrical center (UBEC), an electrical assembly that is similar to a fuse box. The UBEC is located in a high heat area near the engine, and the low beam circuit wire routing within the UBEC makes it susceptible to cyclical stress caused by thermal expansion.

The investigation covers model years 2005-2007 Corvettes however ODI also has received four VOQs alleging the same condition in model year 2008 Corvettes.

ODI is upgrading the investigation to an Engineering Analysis to further examine the consequences, frequency and scope of this problem.

The ODI reports cited above can be reviewed at <http://www-odi.nhtsa.dot.gov/owners/SearchNHTSAID> under the following identification (ODI) numbers.

For MY 2005-2007:

10400308, 10415603, 10415867, 10416531, 10421639, 10424391, 10424543, 10445971, 10451733, 10454919,

10460674, 10460750, 10463546, 10466342, 10466857, 10468128, 10469057, 10470616, 10471595, 10474350, 10474368, 10475257, 10486597, 10491670, 10496592, 10496788, 10498100, 10502059, 10505606, 10508507, 10510052, 10511467, 10511517, 10511576, 10511696, 10511699, 10511789, 10511837, 10511994, 10512072, 10512093, 10512154, 10512292, 10512341, 10513422, 10514802, 10514978, 10515162, 10515311, 10515821, 10519426, 10519879, 10520155, 10521036, 10521585, 10522260, 10523064, 10523190, 10525646, 10531602, 10531631, 10532439, 10533227, 10533251, 10533339

For MY 2008:

10512856, 10514576, 10523059, 10532221