



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: RQ 19-002
Date Opened: 05/10/2019
Investigator: Frederick Lamance
Approver: Stephen Ridella
Subject: Brake Vacuum Pump Failure

Date Closed: 12/12/2019
Reviewer: Jeff Quandt

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Mitsubishi Motors North America, Inc.
Products: 2012-2017 Mitsubishi i-MiEV
Population: 2,108

Problem Description: The electric vacuum pump may fail while driving, resulting in a loss of power assisted braking.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	3	10	12**
Crashes/Fires:	0	1	1
Injury Incidents:	0	1	1
Number of Injuries:	0	1	1
Fatality Incidents:	0	0	0

** Total eliminates duplicates received by ODI and manufacturer.

ACTION / SUMMARY INFORMATION

Action: This Recall Query is closed. Recall 19V-804.

Summary:

On May 10, 2019, the Office of Defects Investigation (ODI) opened Recall Query RQ19-002 to investigate three complaints alleging brake vacuum pump failures after the remedies for Recalls 13V-031 and 14V-522 had been completed in model year (MY) 2012 Mitsubishi i-MiEV vehicles. The investigation was opened on model year (MY) 2010 through 2017 Mitsubishi i-MiEV vehicles to cover all products sold in the United States with the same vacuum pump (Recall 14V-522 included MY 2010 through 2014 i-MiEV vehicles). Mitsubishi Motors North America, Inc. (MMNA) provided information about nine (9) additional reports of brake vacuum pump failure in its response to ODI's information request letter for RQ-002 (MY 2012 - 8, MY 2014 - 1). In addition, MMNA's response indicated that there are no MY 2010 through 2011 i-MiEV vehicles currently in the United States (a small number of MY 2010 through 2011 pre-production i-MiEV demo vehicles were listed as scrapped or exported - four of these were included in the scope of 14V-522).

On November 8, 2019, MMNA submitted a Defect Information Report (DIR) to NHTSA describing a defect in the brake vacuum pump in approximately 2,108 MY 2012 through 2017 Mitsubishi i-MiEV vehicles manufactured from October 28, 2011 through June 10, 2016 (NHTSA Recall 19V-804, Mitsubishi Recall SR-19-002). Mitsubishi's DIR identified a defect in the brake vacuum pump design that may allow water to penetrate the pump and cause internal corrosion, which may result in brake vacuum pump failure and increased risk of a vehicle crash. Recalled vehicles will have the vacuum pump replaced with a redesigned pump that has improved sealing and anti-corrosion performance. Mitsubishi's DIR indicates that the recall covers all i-MiEV vehicles sold in the United States, as U.S. sales began with MY 2012 and concluded with MY 2017.

This investigation is closed based on Recall 19V-804. The ODI reports cited above can be reviewed at NHTSA.gov

under the following ID numbers: 11078966, 11171175, 11187483.