

Part 573 Safety Recall Report

23V-461

Manufacturer Name : Mobility Ventures LLC**Submission Date :** JUN 30, 2023**NHTSA Recall No. :** 23V-461**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Mobility Ventures LLC

Address : 105 N. Niles Ave.

South Bend IN 46617

Company phone : 877 681-3678

Population :

Number of potentially involved : 525

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2015-2016 Mobilty Ventures MV1

Vehicle Type :

Body Style :

Power Train : GAS

Descriptive Information : Mobility Ventures has decided that model year 2015–2016 Mobility Ventures MV-1 vehicles exhibit a noncompliance with Federal Motor Safety Standard (FMVSS) No. 126, “Electronic Stability Control Systems.” Under certain limited conditions, the telltale warning lamps may not indicate an ESC issue. Under certain starting conditions the diagnostic algorithm does not present to the operator that an ESC fault exists. For example, when the steering angle sensor is disconnected to perform the procedures for “ESC Malfunction Detection” set forth in S7.10 and the vehicle’s key is placed in the “ignition on” state for 3 seconds and then started, the appropriate diagnostic trouble code is triggered as required, but the “Traction Control Off” warning lamp illuminates, rather than the “ESC malfunction indicator.” If the vehicle is immediately started without pausing the key in the “ignition on” state, the required diagnostic trouble code is not set. However, upon driving the vehicle, a general fault code will set, alerting the operator to the existence of the fault through the illumination of the Traction Control Off warning lamp.

Production Dates : DEC 22, 2014 - AUG 24, 2015

VIN Range 1 : Begin : 57WMD2C64FM100021 End : 57WMD2C63GM100495 Not sequential

Description of Defect :

Description of the Defect : Mobility Ventures has decided that model year 2015–2016 Mobility Ventures MV-1 vehicles exhibit a noncompliance with Federal Motor Safety Standard (FMVSS) No. 126, “Electronic Stability Control Systems.” Under certain limited conditions, the telltale warning lamps may not indicate an ESC issue. Under certain starting conditions the diagnostic algorithm does not present to the operator that an ESC fault exists. For example, when the steering angle sensor is disconnected to perform the procedures for “ESC Malfunction Detection” set forth in S7.10 and the vehicle’s key is placed in the “ignition on” state for 3 seconds and then started, the appropriate diagnostic trouble code is triggered as required, but the “Traction Control Off” warning lamp illuminates, rather than the “ESC malfunction indicator.” If the vehicle is immediately started without pausing the key in the “ignition on” state, the required diagnostic trouble code is not set. However, upon driving the vehicle, a general fault code will set, alerting the operator to the existence of the fault through the illumination of the Traction Control Off warning lamp.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Tell tale warning lamps may not illuminate on ESC issue.

Description of the Cause : The original CAN for the model-year 2011–2014 vehicles, equipped with the Ford Modular 4.6 liter V8 Powertrain, was programed with 6 ignition states. For the model-year 2015–2016 vehicles, the powertrain was updated to a newer Ford 3.7-liter Ti-VCT V6, which utilizes a Ford Volcano CAN programmed with 11 ignition states. Following that change, the Electronic Brake Control Module (“EBCM”) supplier incorrectly mapped the EBCM memory chip to recognize only one of two potential power mode states encountered during operation.

Identification of Any Warning that can Occur : Illumination of “Traction Control Off” telltale light even if the “Traction Control Off” button has not been selected by the operator.

Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : BWI Group
Address : 3100 Research Blvd
 #240 Kettering Ohio 45420
Country : United States

Chronology :

- October 2016: The EBCM supplier, BWI, alerted Mobility Ventures to possibility of a noncompliance with the ESC malfunction telltale lamp under certain test procedures.
- December 2016: Mobility Ventures took steps to verify the condition reported by BWI in a test vehicle.
- February–June 2017: Mobility Ventures took additional steps with BWI to ascertain the nature of the issue and the efficacy of the programing solution created by BWI.
- June–July 2017: Mobility Ventures continued discussions with BWI concerning the implementation of programing solution and method of delivery. A software flashing tool was deemed to be more reliable and effective than completely replacing the entire module.
- October 2017: BWI provided Mobility with prototype reflash tool capable of reprogramming ECMB to correctly respond to test conditions.
- November 2017: Mobility Ventures Engineering took steps to verify the effectiveness and feasibility of the reflash tool developed by BWI.
- February 7, 2018: Mobility Ventures, having determined that a technical noncompliance exists, sought a finding that the noncompliance is inconsequential from NHTSA.
- July 20, 2022 Mobility was notified of NHTSA denial of request. (Mobility had ceased operations, personnel no longer available.)
- May 26, 2023 AM General (Mobility owner) contacted by NHTSA to address recall issue.
- June 30, 2023 Mobility filed new part 573 Safety Recall report to NHTSA.
- As of July 2023, Mobility Ventures has not received any warranty claims, field reports, injuries or crashes related to this issue, nor is Mobility aware of any issues with the performance of the underlying ESC System.

Description of Remedy :

Description of Remedy Program : Mobility is preparing a customer notification via registered mail, advising customers of issue as well as, process of required action. Mobility is prepared to implement a solution in the form of a reflashing tool, which is currently being developed. Until the validation of the reflashing tool is completed, Mobility will be preparing its dealers for the process. Once the reflashing tool's development is complete, Mobility will instruct its authorized dealers to reflash each vehicle's ECBM upon presentment from customer notification. The majority of the subject vehicles are in fleet use by single-source purchasers. Thus, reflashing the ECBM during the normal course of service will capture the majority of affected vehicles.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : Not applicable. Mobility Ventures stopped manufacturing the MV-1 in the 2016 Model Year.

Recall Schedule :

Description of Recall Schedule : A recall schedule will be established upon completion of validating process and notification to customer has begun. Mobility anticipants a recall schedule to be submitted to NHTSA no later than August 15, 2023.

Planned Dealer Notification Date : AUG 28, 2023 - NR

Planned Owner Notification Date : AUG 28, 2023 - NR

* NR - Not Reported