

Part 573 Safety Recall Report

24V-006

Manufacturer Name : E-One Incorporated

Submission Date : JAN 08, 2024

NHTSA Recall No. : 24V-006

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : E-One Incorporated

Address : 1601 S.W. 37TH AVENUE
Ocala FL 34474

Company phone : (904) 237-1122

Population :

Number of potentially involved : 408

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2024 E-ONE ARFF, COMMERCIAL, CYCLONE 2, CYCLONE N, CYCLONE E, TYPHOON, TYPHOON N

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population was determined based on product specifications associated with a specific firmware version. Recalled products have a different firmware version than those not included in the recall. Firmware version is recorded on a decal on each unit.

This recall is based on information supplied by Weldon. Weldon provided a part number and date range of product affected. E-ONE pulled a population by the part number and date range of product issued to determine the affected list. The vehicles affected by this recall are equipped with certain 8 x 16 Input-Output nodes supplied by Weldon.

QTY: 6 – 2020 Commercial vehicles are affected
QTY: 1 – 2020 Cyclone 2 vehicles are affected
QTY: 1 – 2020 Typhoon N vehicles are affected
QTY: 3 – 2021 ARFF vehicles are affected
QTY: 34 – 2021 Commercial vehicles are affected
QTY: 1 – 2021 Cyclone N vehicles are affected
QTY: 8 – 2021 Typhoon N vehicles are affected
QTY: 4 – 2022 ARFF vehicles are affected
QTY: 45 – 2022 Commercial vehicles are affected
QTY: 11 – 2022 Cyclone 2 vehicles are affected
QTY: 32 – 2022 Cyclone N vehicles are affected
QTY: 1 – 2022 Typhoon vehicles are affected
QTY: 94 – 2022 Typhoon N vehicles are affected
QTY: 1 – 2023 ARFF vehicles are affected
QTY: 36 – 2023 Commercial vehicles are affected
QTY: 2 – 2023 Cyclone 2 vehicles are affected
QTY: 22 – 2023 Cyclone N vehicles are affected
QTY: 1 – 2023 Cyclone E vehicles are affected
QTY: 46 – 2023 Typhoon N vehicles are affected
QTY: 49 – 2023 Commercial vehicles are affected

Production Dates : APR 16, 2020 - DEC 06, 2023

VIN Range 1 : Begin : 1FVACYFE2MHMK9004 End : 4S9DU2D93RC560655

☒ Not sequential

Description of Defect :

Description of the Defect : The electrical current sensing calibration was not produced to specification so that the firmware would not shut off the output pin under a short circuit caused by external load or wiring failure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In the event of a short circuit or wiring failure, if the electrical circuit(s) become overloaded, depending on how the input-output node(s) is wired into the vehicle including whether it is located near a flammable fuel source, there is an increased risk of heat related damage or fire.

Description of the Cause : TBD

Identification of Any Warning that can Occur : None

Involved Components :

Component Name 1 : 8 x 16 Input Output Node

Component Description : Multiplex Input Output Node

Component Part Number : 6030-2000-00

Supplier Identification :**Component Manufacturer**

Name : Weldon Division of Akron Brass

Address : 3656 Paragon Drive
Columbus Ohio 43228

Country : United States

Chronology :

Refer to NHTSA Recall 23E-084 for Weldon's chronology.

In early October 2023, Weldon was notified that external wiring in a vehicle using the node had melted. The part was returned to Weldon for analysis in mid-October where it was found that when an external short circuit occurred, the electrical output did not shut down as specified. Weldon conducted testing and analysis of the version of the node used in the vehicle as well as prior versions of the node and it was found that for the version of the node installed in the vehicle, the electrical current sensing calibration was outside the specified limits. Weldon found that the calibration was previously updated in production, but was not considered to pose a broader concern at the time. On October 24, 2023, Weldon decided to conduct a safety recall to address the issue.

November 15, 2023 – E-ONE received information from Weldon regarding recall number 23E-084. Inventory was inspected as well as vehicles in Production and none were found.

November 16, 2023 – Technical Support was contacted to discover if there were any issues on the vehicles in the field. No issues had been reported.
 November 27, 2023 – E-ONE Electrical Engineering began performing tests to see if this could occur in our Electrical design. No conclusion.
 November 30, 2023 – E-ONE began trying to determine the final population but ran into technical problems with the software.
 January 5, 2024 – Final population determined.
 January 6, 2024 – Submitted DIR to REV Group Management for approval.
 January 8, 2024 – Received approval from REV Group to file Recall.

Description of Remedy :

Description of Remedy Program : Weldon will notify affected customers and update the firmware in the Multiplex Input/Output Node as installed in affected vehicles that are within the identified version range. There is no charge to the Dealer or the Owner for this Recall.

If you have already paid to have your E-ONE vehicle repaired for this condition, you may be eligible for reimbursement of the charges you paid for the repair or replacement of components. To learn more about what you need to do to obtain reimbursement call E-ONE Customer Service at 1-352-237-1122 and instructions will be provided. Please have your truck's VIN available.

If after having attempted to take advantage of this recall you believe you have not been able to have your E-ONE vehicle remedied without charge and within a reasonable amount of time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, D.C., 20590; or call the toll-free Vehicle Safety Hotline at 1- 888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

How Remedy Component Differs from Recalled Component : Firmware version number on the device determines the range of devices that shall be recalled. Version 1.00 – 1.02 to be recalled.
 Component Name : 8 x 16 Input Output Node
 Component Description : Multiplex Input Output Node
 Component Part Number : 6030-2000-00

Identify How/When Recall Condition was Corrected in Production : Inventory was inspected as well as vehicles in Production using the Serial Numbers provided by Weldon and none were found.

Recall Schedule :

Description of Recall Schedule : 1) Email dealers a copy of the recall approximately 1 week before customers.

2) Mail customers the recall

Planned Dealer Notification Date : JAN 12, 2024 - JAN 24, 2024

Planned Owner Notification Date : JAN 24, 2024 - FEB 02, 2024

* NR - Not Reported