

# Part 573 Safety Recall Report

# 16V-443

**Manufacturer Name :** E-One Incorporated**Submission Date :** APR 20, 2017**NHTSA Recall No. :** 16V-443**Manufacturer Recall No. :** NR**Manufacturer Information :****Population :**

Manufacturer Name : E-One Incorporated

Number of potentially involved : 27

Address : 1601 S.W. 37TH AVENUE

Estimated percentage with defect : 100 %

Ocala FL 34474

Company phone : (904) 237-1122

**Vehicle Information :**

Vehicle 1 : 2014-2016 E-ONE TYPHOON

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Units with ES-Key Supernode utilizing the utility flash feature.

Production Dates : JAN 01, 2014 - MAY 31, 2016

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 2 : 2014-2016 E-ONE C2

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Units with ES-Key Supernode utilizing the utility flash feature.

Production Dates : JAN 01, 2014 - MAY 01, 2016

VIN Range 1 : Begin : NR End : NR

 Not sequential

**Description of Defect :**

Description of the Defect : Idex Corp (hereafter Hale Products) has decided a safety related defect may exist with some ES-Key Systems utilizing the Supernode utility flash feature. Certain configurations with Supernode utility flasher and a non-Hale component could have an effect on certain vehicle systems or sub-systems, which may potentially increase the chance of an accident or injury.

The supernode output overcurrent protection normally acts as a fuse or circuit breaker within the system. In the event of a short-circuit in a non-Hale component, the output overcurrent protection in the Supernode utility flash feature may not perform as expected. Should this condition occur, an external short circuit to ground could cause current spikes in excess of wiring capacity making it possible than an accident or other damage/failure of connected equipment could allow wiring to overheat and fail.

FMVSS 1 : 101 - Control and displays

FMVSS 2 : NR

Description of the Safety Risk : According to Hale Products:

"there are over 56,000 units in the field with two reported failures over the past 10 years and other factors such as wiring harness length and gage that could affect the issue however aftermarket modifications or damage to the electrical system can prevent the Supernode from protecting the circuits with utility flasher from overcurrent.

Description of the Cause : Possible shorts in the system

Identification of Any Warning that can Occur : Possible flashing circuit failure for components on the Supernode.

**Supplier Identification :****Component Manufacturer**

Name : IDEX CORP

Address : 1925 West Field Court Suite 200  
Lake Forest ILLINOIS 60045-4824

Country : United States

**Chronology :**

06/08/16, Hale Products identified the problem to E-One through the manufacturers recall process with manufacturer recall 16E-038. 06/08/16, E-One inquired about the repair procedure suggested by Hale and coordinated a meeting. E-One investigated and had a meeting with Hale products 06/10/2016. The recall process was begun 06/13/2016

**Description of Remedy :**

Description of Remedy Program : 1) Identify the ES-Key output device.  
2) Hale Products will provide fuse holder kits with fuses for all potentially affected vehicles at no charge to the customer AND/OR upgrade the firmware of the ES-Key nodes.  
3) Fuse kits should only be connected in series with the flashing output that is driven by the Supernode utility flasher and located as close to the ES-Key output device as possible. Updated programming is preferable where easily updated. This will be determined by Hale representative.  
4) Hale products will perform the maintenance at site for customers as a gratis service.

How Remedy Component Differs from Recalled Component : Added fuse in series can prevent the Supernode from failing from current spikes in excess of wiring capacity. Programming update can eliminate the issue, as well.

Identify How/When Recall Condition was Corrected in Production : All new ES-Key products have internal flash capabilities that lie in the firmware layer of most ES-Key products. In these cases, the overcurrent protection is fully operational.

**Recall Schedule :**

Description of Recall Schedule : 1) Will attempt to send technicians directly to all vehicles still within E-One's control.  
2) Will contact dealers and end vehicle owners, sending letters to dealers first, followed by end vehicle owners, where appropriate.

Planned Dealer Notification Date : JUL 25, 2016 - AUG 05, 2016

Planned Owner Notification Date : JUL 25, 2016 - AUG 05, 2016

\* NR - Not Reported