

Part 573 Safety Recall Report

23V-819

Manufacturer Name : Ferrara Fire Apparatus, Inc.

Submission Date : DEC 06, 2023

NHTSA Recall No. : 23V-819

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Ferrara Fire Apparatus, Inc.

Address : 27855 James Chapel Road
PO Box 249 Holden LA 70744

Company phone : 800-443-9006

Population :

Number of potentially involved : 6

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2020 Ferrara Inferno Aerial Fire Apparatus

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. Ferrara pulled a population by the part number and date range of product issued to determine the affected list. The emergency response apparatus vehicles affected by this recall are equipped with certain 8 x 16 Input-Output nodes supplied by Weldon.

Production Dates : APR 17, 2018 - JAN 15, 2020

VIN Range 1 : Begin : NR

End : NR

☐ 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 : NR

Identification of Any Warning that can Occur : This issue could occur without warning.

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.

On November 15, 2023 – Ferrara received information from Weldon regarding recall number 23E-084. Engineering reviewed potential population and inventory reviewed.

November 27, 2023 – Ferrara determined the final population. The issue was escalated to REV Group Management.

November 29, 2023 – REV's senior leadership approved a voluntary recall for this issue.

Description of Remedy :

Description of Remedy Program :	Weldon will notify affected customers and update the firmware in the 8 x 16 node as installed in affected vehicles and in OEM inventory that are within the identified version range. Weldon will evaluate and provide reimbursement for pre-production remedies on an individual basis.
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.
Identify How/When Recall Condition was Corrected in Production :	On June 14, 2023, as part of normal quality work, the current sensing calibration firmware was updated in production at Weldon.

Recall Schedule :

Description of Recall Schedule :	Ferrara to begin owner notifications by week of January 15, 2024.
Planned Dealer Notification Date :	JAN 08, 2024 - JAN 12, 2024
Planned Owner Notification Date :	JAN 15, 2024 - JAN 19, 2024

* NR - Not Reported