

Part 573 Safety Recall Report

24V-063

Manufacturer Name : Braun Ambulances**Submission Date :** FEB 01, 2024**NHTSA Recall No. :** 24V-063**Manufacturer Recall No. :** 2024-01**Manufacturer Information :**

Manufacturer Name : Braun Ambulances

Address : 1170 Production Drive

Van Wert OH 45891

Company phone : 4192327020

Population :

Number of potentially involved : 628

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2023 Braun Ambulances Chief XL 1

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Braun Ambulances is filing a corresponding recall regarding Weldon I/O nodes used in Braun vehicles. Weldon, a division of Akron Brass Company, has decided a safety related defect exists in certain V-MUX 8 x 16 I/O Nodes, Weldon Part Number 6030-2000-00 produced between March 10, 2020, and June 14, 2023. Versions 1.00 through 1.02 are affected. Versions 1.03 and newer are not subject to this recall. This could increase the risk of a vehicle fire. 174 diesel Chief XL 1's are impacted.

Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2020-2023 Braun Ambulances Chief XL 1

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2020-2023 Braun Ambulances Express Plus I

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2020-2023 Braun Ambulances Express Plus I

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2020-2023 Braun Ambulances Chief XL III

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2020-2023 Braun Ambulances Chief XL III

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 7 : 2020-2023 Braun Ambulances Liberty I

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 8 : 2020-2023 Braun Ambulances Liberty I

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 9 : 2020-2023 Braun Ambulances Super Chief I

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 10 : 2020-2024 Braun Ambulances Express III

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 11 : 2020-2023 Braun Ambulances Signature Series III

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 12 : 2020-2023 Braun Ambulances Signature Series I
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : ALL
Power Train : DIESEL

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Production Dates : FEB 01, 2020 - AUG 01, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : In the affected nodes, short circuit protection may not function properly. In the case of a short circuit in the wiring or the connected load, overheating of the wiring or the load may occur, and depending on how the product is installed in the vehicle, this could increase the risk of a vehicle fire.

FMVSS 1 : 101 - Control and displays

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 : In the affected products, short circuit protection may not function properly. In the case of a short circuit in the wiring or the connected load, overheating of the wiring or the load may occur, and depending on how the product is installed in the vehicle, this could increase the risk of a vehicle fire. 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.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : V-MUX 8X16 I/O Nodes

Component Description : I/O Nodes

Component Part Number : 6030-2000-00

Supplier Identification :

Component Manufacturer

Name : Weldon Division of Akron Brass

Address : 607 NW 27th Avenue

Ocala Florida 34475

Country : United States

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. Braun was informed of this recall via letter on January 15th, 2024. After review and investigation Braun is filing this corresponding recall on February 1st, 2024.

Description of Remedy :

Description of Remedy Program : Weldon will 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-notification 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 : June 14, 2023 as part of normal quality work, the current sensing calibration firmware was updated in production.

Recall Schedule :

Description of Recall Schedule : Communication to dealer network will begin upon completion of this

submission. Weldon recall information will be initially shared as the Braun corresponding letters are approved and mailed.

Planned Dealer Notification Date : FEB 09, 2024 - FEB 16, 2024

Planned Owner Notification Date : FEB 12, 2024 - FEB 23, 2024

* NR - Not Reported