

# Part 573 Safety Recall Report

## 22V-911

**Manufacturer Name :** Braun Ambulances

**Submission Date :** MAR 29, 2023

**NHTSA Recall No. :** 22V-911

**Manufacturer Recall No. :** 2022-02



### Manufacturer Information :

Manufacturer Name : Braun Ambulances

Address : 1170 Production Drive

Van Wert OH 45891

Company phone : 4192327020

### Population :

Number of potentially involved : 1,321

Estimated percentage with defect : 50 %

### Vehicle Information :

Vehicle 1 : 2014-2022 Braun Ambulance Chief XL

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 92 total Chief XL Gas powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 01, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 2 : 2014-2022 Braun Ambulance Chief XL

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 457 total Chief XL Diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 3 : 2014-2022 Braun Ambulance Express

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 30 total Express diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 4 : 2014-2022 Braun Ambulance Express

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 52 total Express Gas powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 5 : 2014-2022 Braun Ambulance Express Plus

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 99 total Express Plus diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 6 : 2014-2022 Braun Ambulance Express Plus

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 97 total Express Plus Gas powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 7 : 2014-2022 Braun Ambulance Liberty

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 224 total Liberty diesel powertrain vehicles potentially impacted

Production Dates : JAN 02, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 8 : 2014-2022 Braun Ambulance Liberty

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 3 total Liberty Gas powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 9 : 2014-2022 Braun Ambulance Patriot

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 1 total Patriot diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 10 : 2014-2022 Braun Ambulance Signature

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 3 total Signature diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 11 : 2014-2022 Braun Ambulance Signature

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 3 total signature Gas powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 12 : 2014-2022 Braun Ambulance Super Chief

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 257 total Super Chief diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 13 : 2014-2022 Braun Ambulance TLC

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Field failrue reported. Went back to when the current AC units started being used in production. This impacts all Braun units with external AC condensers mounted on the front of the module. 3 total TLC diesel powertrain vehicles potentially impacted

Production Dates : JAN 01, 2014 - AUG 31, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

## Description of Defect :

Description of the Defect : Voltage created from a spinning condenser fan may feed DC voltage back into the system. This may damage the relay controlling the condenser fan. Relay damage such as welding the contacts open or burning of the contacts can result in operational failure of the HVAC system

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Relay damage such as welding the contacts open or burning of the contacts can result in operational failure of the HVAC system

Description of the Cause : In the affected vehicles, the unenergized condenser fans can spin due to air movement as the vehicle is in motion. The fan spinning will generate voltage that feeds back into the relay causing it to overheat. This overheating can result in an inoperable condenser fan and the HVAC system will not function

Identification of Any Warning that can Occur : Front mount condensor will no longer work and the 110/12V AC system will not function.

### Involved Components :

Component Name 1 : Front mount 110/12V AC condenser

Component Description : External AC system condenser

Component Part Number : Front mount condenser

### Supplier Identification :

#### Component Manufacturer

Name : Braun Ambulances

Address : 1170 Production Dr  
Van Wert Ohio 45891

Country : United States

### Chronology :

Initial field failure report in June 2022. Reviewed failure mode and corrected issue on specific unit. 2 additional failures reported between July and August 2022.

Investigated problem further once unit back in service. Reviewed prints/designs. Found missing diode/fan spinning under certain conditions to be problematic. Reviewed potential exposure due to missing diodes and traced potential back to 2014.

Additional failures reported August - November. Moved to file recall in December 2022.

**Description of Remedy :**

Description of Remedy Program : Braun will remedy the affected units free of charge by replacing the relay and adding a diode. It is requested that customers contact their authorized Braun Dealer to arrange replacement of the affected relay and diode addition.

The estimated labor to perform this recall is 15 minutes. Labor reimbursement for the inspection and repair for each ambulance will be 30 minutes.

How Remedy Component Differs from Recalled Component : The remedy will include replacing the relay and adding a diode. The remedied work can be identified by the presence of the diode.

Identify How/When Recall Condition was Corrected in Production : The prints/designs were updated. Diode added into process/production in August 2022 after initial failure review.

**Recall Schedule :**

Description of Recall Schedule : Recall to be filed on 12/9/22. Upon approval of recall and documents, letters will be printed and mailed to dealers and customers starting week of 12/19/22.

Planned Dealer Notification Date : DEC 19, 2022 - DEC 30, 2022

Planned Owner Notification Date : JAN 02, 2023 - JAN 20, 2023

\* NR - Not Reported