

# Part 573 Safety Recall Report

## 21V-183

**Manufacturer Name :** Braun Ambulances

**Submission Date :** MAR 18, 2021

**NHTSA Recall No. :** 21V-183

**Manufacturer Recall No. :** NR



### Manufacturer Information :

Manufacturer Name : Braun Ambulances

Address : 1170 Production Drive

Van Wert OH 45891

Company phone : 4192327020

### Population :

Number of potentially involved : 12

Estimated percentage with defect : 100 %

### Vehicle Information :

Vehicle 1 : 2019-2019 Demers Ambulances MX170E Ford E-Series

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : GAS

**Descriptive Information :** Includes certain models of MX170E produced with a sliding attendant seat on the passenger side of the ambulance patient compartment. All other vehicles designed and manufactured by Demers differ materially in design, or have seating materially different in design, or do not contain the sliding seat mechanism. Vehicles not covered by this recall do not have the subject components. 6 model year (MY) 2019 MX170E models mounted on Ford E-450 chassis with gas engines are affected.

**Production Dates :** DEC 07, 2018 - SEP 10, 2020

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 2 : 2021-2021 Demers Ambulances MX170E Ford E-Series

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : GAS

**Descriptive Information :** Includes certain models of MX170E produced with a sliding attendant seat on the passenger side of the ambulance patient compartment. All other vehicles designed and manufactured by Demers differ materially in design, or have seating materially different in design, or do not contain the sliding seat mechanism. Vehicles not covered by this recall do not have the subject components. 3 model year (MY) 2021 MX170E models mounted on Ford E-450 chassis with gas engines are affected.

**Production Dates :** SEP 04, 2020 - SEP 29, 2020

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 3 : 2019-2020 Demers Ambulances MXP170E Ram

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

**Descriptive Information :** Includes certain models of MXP170E produced with a sliding attendant seat on the passenger side of the ambulance patient compartment. All other vehicles designed and manufactured by Demers differ materially in design, or have seating materially different in design, or do not contain the sliding seat mechanism. Vehicles not covered by this recall do not have the subject components. 2 model year (MY) 2019 MXP170E models mounted on Dodge Ram 5500 chassis with diesel engines are affected. 1 model year (MY) 2020 MXP170E mounted on Dodge Ram 5500 chassis with diesel engines is affected.

Production Dates : FEB 04, 2020 - JUN 02, 2020

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

## Description of Noncompliance :

**Description of the Noncompliance :** The seating system does not comply with FMVSS 207 & FMVSS 210. The locking pin assembly in the curbside seat may not retain the seat in position under the loading conditions of FMVSS 207 & FMVSS 210.

FMVSS 1 : 207 - Seating systems

FMVSS 2 : 210 - Seat belt assembly anchorages

**Description of the Safety Risk :** Failure to comply with FMVSS 207 & 210 could result in an occupant being insufficiency restrained during an accident, resulting in a higher risk of injury.

**Description of the Cause :** We have become aware that a test sample used to validate compliance to FMVSS 207 & 210 differed to delivered production units. Consequently, accurate test pieces, fully representative of production units, were re-tested and did not meet the requirements of FMVSS 207 & 210.

**Identification of Any Warning that can Occur :** NR

## Involved Components :

**Component Name 1 :** Mobility seat base assembly

**Component Description :** Seat base for a sliding seat system on the curb side of the vehicle. More accurately, the subject component is a locking pin mechanism, containing a brass sleeve and pin with UHMW casing

**Component Part Number :** A040007

## Supplier Identification :

### Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

## Chronology :

In March 2018, a new design of sliding seat mechanism was tested to F/CMVSS regulation 207 & 210 and passed.

Subsequently, an undocumented change was made to the design removing a steel sleeve from a pin retaining mechanism. This revision was never re-tested

A further 12 units were manufactured to this design and manufactured.

In September 2020, a further revision was made to the design and subjected to the necessary testing to F/CMVSS 207 & 210. During the development, from October 2020 to January 2021, certain failure mechanisms were observed, these included deflection of the structure that allowed the mechanism to bind due to friction. This effect removed load from the slide mechanism retaining pin, the primary purpose of which is to hold the seat and slider securely in position. There was concern that a test pass was due to friction rather than the design intent of the pin. The necessary modifications were made and the seat re-tested and full compliance to F/CMVSS 207 & 210 was obtained

As a result of the learnings from the latest development above, a review of the initial testing performed in March 2018 was conducted from February 1st until February 16th 2021. On February 16th retained test samples retrieved from storage were examined for any evidence of the same failure mechanisms observed during the latest tests. None indicated deflection of the structure had allowed the mechanism to bind due to friction. However, it was observed that the retaining pin that secures the sliding seat in a fixed position differed from the production units.

Differences between the 2019 production units and any tests conducted before, or after, did not allow a determination if the requirements of F/CMVSS 207 & 210 were, or were not met, for the affected 2019-2021 production units.

Plans were put in place to re-test a sample fully representative of the affected production units. The re-test was completed on March 10th and did not meet the requirements of F/CMVSS 207 & 210.

## Description of Remedy :

Description of Remedy Program : Noncompliance remedy program consist of replacement of the locking pin assembly in the affected seating system. 1.5 hours of labor will be reimbursed by Demers Ambulances and replacment components will be supplied by Demers Ambulances.

How Remedy Component Differs The pin itself will be single component, solid stainless steel rather than a steel core with UHMW plastic casing. Additionally, the sleeve in which the

from Recalled Component : pin is encased will be steel rather than brass.

Identify How/When Recall Condition was Corrected in Production : Bill of material and drawings have been corrected to the F/CMVSS 207 and 210 compliant design on March 15, 2021.

### Recall Schedule :

Description of Recall Schedule : Dealer notifications will be mailed starting 3/23/21. Customer notification letters will be submitted to NHTSA by 3/23/21 and mailed by 3/30/21

Planned Dealer Notification Date : MAR 23, 2021 - MAR 31, 2021

Planned Owner Notification Date : MAR 23, 2021 - MAR 31, 2021

\* NR - Not Reported