

Part 573 Safety Recall Report

21V-008

Manufacturer Name : Braun Northwest**Submission Date :** JAN 13, 2021**NHTSA Recall No. :** 21V-008**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Braun Northwest
Address : 150 Northstar Drive
 Chehalis WA 98532
Company phone : 748-0195

Population :

Number of potentially involved : 23
Estimated percentage with defect : 100 %

Vehicle Information :**Vehicle 1 :** 2019-2020 RAM 4500/5500**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES**Body Style :** OTHER**Power Train :** DIESEL

Descriptive Information : Liquid Spring notified us of the recall and provided a list of affected kits. We went through our records and developed a list based on vehicle type and equipment installed. This list was compared with the list provided by Liquid Spring to ensure that all affected vehicles were accounted for. This recall was very specific in scope making identification of affected vehicles relatively easy. The affected vehicles are 2019-2020 RAM 4500/5500 with liquid spring rear suspension systems. Liquid spring kits manufactured after April 22, 2020 had design changes incorporated that eliminated the problem. We purchased a total of 33 kits that fall under this recall. 10 were repaired prior to installation leaving a total of 23 delivered vehicles (ten customers) needing repair.

Production Dates : AUG 01, 2019 - MAY 31, 2020

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|-----------------------|-------------------|-------|-------------------|--|
| VIN Range 1 : Begin : | 3C7WRKBL7KG617092 | End : | 3C7WRKBL7KG617096 | <input type="checkbox"/> Not sequential |
| VIN Range 2 : Begin : | 3C7WRKBL0KG635871 | End : | 3C7WRKBL0KG635877 | <input type="checkbox"/> Not sequential |
| VIN Range 3 : Begin : | 3C7WRKCL7KG572024 | End : | 3C7WRKCL5KG606090 | <input checked="" type="checkbox"/> Not sequential |
| VIN Range 4 : Begin : | 3C7WRLCL5KG566986 | End : | 3C7WRLCL4LG138750 | <input checked="" type="checkbox"/> Not sequential |
| VIN Range 5 : Begin : | 3C7WRLBL3KG572142 | End : | 3C7WRLCLXKG566983 | <input checked="" type="checkbox"/> Not sequential |
| VIN Range 6 : Begin : | 3C7WRLCL3KG627476 | End : | 3C7WRLCJXKG587816 | <input checked="" type="checkbox"/> Not sequential |
| VIN Range 7 : Begin : | 3C7WRLCL8KG566982 | End : | 3C7WRKCLXLG164456 | <input checked="" type="checkbox"/> Not sequential |
| VIN Range 8 : Begin : | 3C7WRKCL1LG164457 | End : | 3C7WRKCL1LG164457 | <input type="checkbox"/> Not sequential |

Description of Defect :

Description of the Defect : The rear brake caliper flexible line may have been routed such that it may be causing rear brake caliper flexible line wear due to contact with a suspension component(s).

FMVSS 1 : 105 - Hydraulic and electric brake systems

FMVSS 2 : NR

Description of the Safety Risk : The consequence of the defect can be rear brake caliper flexible line wear and/or subsequent brake fluid leakage which may result in partial or complete loss of rear service brakes which could cause damage to the chassis and/or other vehicles, and possibly result in a crash.

Description of the Cause : The cause of the defect is insufficient length of the rear brake caliper flexible line and/or suspension component configuration such that the rear brake caliper flexible line can be routed to not contact any suspension component(s).

Identification of Any Warning that can Occur : The defect may be detected by the vehicle operator by abnormal brake pedal feedback, abnormal stopping ability, or leakage of brake fluid at the rear brake caliper flexible line wear point. The defect may be detected by the installer by observing contact between the rear brake caliper flexible line and suspension component(s).

Involved Components :

Component Name 1 : Brake Hose

Component Description : Rear Brake Caliper Flexible Line

Component Part Number : NR

Supplier Identification :**Component Manufacturer**

Name : Liquid Spring LLC

Address : 4899 E 400 South

Lafayette Indiana 47905

Country : United States

Chronology :

From Liquid Spring Recall 20E-031

1st Reported Instance – December 12, 2019 - In the case of the 1st reported instance, a customer installing a

RAM 4500/5000 rear suspension kit contacted LiquidSpring Customer Service to report contact between the driver side (LH) rear brake caliper flexible line and the lower axle clamp suspension component. Review of customer submitted pictures confirmed contact. Customer reworked the LH rear brake caliper flexible line routing to eliminate contact issue. There had been no other previously reported contact between the rear brake caliper flexible line and suspension component(s) from installers, dealers, or end users of the affected product.

February 10, 2020 - LiquidSpring contacted RAM dealer to obtain rear brake caliper flexible line P/N's for MY 2018, 2019, and 2020 RAM 4500/5500 cab chassis. RAM dealer provided part number information for the rear brake caliper flexible line indicated that the P/N for MY 2019 and 2020 was the same but different from MY 2018. Because physical information such as length of the line was not available for comparative purposes, LiquidSpring ordered both rear brake caliper flexible lines for MY 2018 and 2019/20. Only MY 2018 part was received, MY 2019/20 was backordered with delivery date indeterminate.

February 14, 2020 - LiquidSpring began effort to develop banjo manifold block to install between the rear brake caliper and the rear brake caliper flexible line to re-orient the brake line banjo mount and provide an effective longer line length for clearance with the lower axle clamp suspension component.

March 16, 2020 - LiquidSpring began effort to modify the lower axle clamp suspension component to provide clearance for the rear brake caliper flexible line without utilizing banjo manifold block.

March 24, 2020

Trial installation of the developed banjo manifold block between the rear brake caliper and the rear brake caliper flexible line along with re-orientation of the brake line banjo mount.

Description of Remedy :

Description of Remedy Program : A kit, P/N 11849, has been generated consisting of 2 OEM banjo bolts, 8 crush washers, 2 banjo blocks, and installation instructions to install the banjo blocks on each rear caliper and modify the rear brake caliper flexible line mounting. A kit, P/N 11871, has been generated with OEM replacement rear brake caliper flexible lines and hardware required to replace worn rear brake caliper flexible lines as needed. Liquid Spring plans to cover all expenses related to the installation of the banjo blocks and/or replacement of worn rear brake caliper flexible lines.

How Remedy Component Differs from Recalled Component : The presence of the banjo blocks installed between the rear brake caliper and the rear brake caliper flexible line distinguishes vehicles that do or don't have the remedy completed.

Identify How/When Recall Condition was Corrected in Production : The on-going production remedy for the rear brake caliper flexible line contact issue will be the modified lower axle clamp suspension component that provides clearance without utilizing the banjo manifold block. This change was implemented on all suspension kits shipped after April 22, 2020.

Recall Schedule :

Description of Recall Schedule : Recall notification was completed on 6/11/2020.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

* NR - Not Reported