

Part 573 Safety Recall Report

22V-547

Manufacturer Name : PACCAR Incorporated**Submission Date :** SEP 15, 2022**NHTSA Recall No. :** 22V-547**Manufacturer Recall No. :** 22PBE, 22KWE**Manufacturer Information :****Population :**

Manufacturer Name : PACCAR Incorporated

Number of potentially involved : 47,500

Address : 777 106TH AVENUE NORTHEAST

Estimated percentage with defect : 1 %

BELLEVUE WA 98004

Company phone : 940 591 4220

Vehicle Information :

Vehicle 1 : 2022-2023 Kenworth T170, T270, T280, T370, T380, T440, T470, T480, T680, T800, T880, W900, W990, C500

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Vehicle population was determined using list of steering gear serial numbers from Sheppard identifying units that had re-work done that could have resulted in incorrect recirculating ball assembly.

Production Dates : JUN 02, 2021 -JUN 02, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2022-2023 Peterbilt 325, 330, 337, 348, 365, 367, 389, 520, 536, 537, 548, 567, 579

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Vehicle population was determined using list of steering gear serial numbers from Sheppard identifying units that had re-work done that could have resulted in incorrect recirculating ball assembly.

Production Dates : JUN 02, 2021 -JUN 02, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : Steering gear was assembled with fewer than the required number of recirculating balls which can lead to a fracture in the steering gear worm-shaft and loss of vehicle steering.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A steering gear with fewer than the required number of recirculating balls may bind when loads are applied. In some cases the balls may align on the same side of the gear's worm-shaft and concentrated loads may cause the gear's internal parts to fracture resulting in loss of vehicle steering. Loss of steering increases the likelihood of a crash.

Description of the Cause : Incorrect re-work allowed steering gear to be assembled with fewer than the required number of recirculating balls.

Identification of Any Warning that can Occur : Preceding the internal fracture, the steering may be perceived as strained by the driver. No audible or visual warning is associated with this defect.

Involved Components :

Component Name 1 : Steering Gear

Component Description : Steering Gear Assembly

Component Part Number : HD94P*, J87-6020, J87-6024, J87-6027, J87-6033, J87-6038-001, J87-6039*, J87-6043*, J87-6044-001

Component Name 2 : Steering Gear

Component Description : Steering Gear Assembly

Component Part Number : J87-6045-001, M100P*, M110PBQ31, MD83PA*, SD110P*

Supplier Identification :

Component Manufacturer

Name : R.H. Sheppard

Address : 101 Philadelphia Street
P.O. Box 877 Hanover Pennsylvania 17331

Country : United States

Chronology :

5-20 RHSheppard communicated they were filing equipment recall due to steering gear shaft failures on two warranty returns. No root cause or remedy. 5-24 RHS sent list of suspect steering gear orders. 5-26 RHS provided instructions for reading serial numbers and range for suspect parts. Plants began inspecting and quarantining material. RHS testing if gears can be tested on trucks to determine good gears. RHS doing infant failure analysis. 5-27 RHS provided some suspect part numbers. 6-01 RHS sent list of serial numbers checked

so far as being cleared.Plants re-sort and release parts.Plants had quarantined by the suspect year/month and could now release specific steering gear serial numbers. 6-03 Warranty search found 2 claims match known failures. 6-07 RHS sent larger list of serial numbers that currently makes up the suspect gear serial number population.Plants re-sort and release parts. 6-08 RHS identified root cause to be recirculating balls removed during re-work and new ball insertion process not completed. 6-09 RHS reduced the suspect population to 2,816 serial numbers.Plants re-sort and release parts. 6-16 RHS sent new suspect population with 2,877 serial numbers.Plants re-sort and release parts.Safety and Compliance asked for PACCAR part number, plant location and invoice date to be added to suspect population list. 6-23 RHS sent new suspect population list with added information that was requested. 7-01 Safety and Compliance requested information to aid in preparing this issue for the Safety Committee. 7-06 RHS provided requested information. 7-07 Safety Committee reviewed. Questions on how the suspect truck population was determined. 7-08 RHS provided field action proposal. 7-14 Discussed with NHTSA during regular scheduled quarterly meeting. 7-18 Safety Committee Minutes sent to Safety Committee for decision whether this issue is a safety related defect. 7-22 Safety Committee determines a safety related defect exists.

Description of Remedy :

Description of Remedy Program :	Dealers will inspect vehicles to determine whether the steering gear serial number is on Sheppard's list of suspect serial numbers. Any steering gear on the suspect list will be replaced. Owners who incurred costs to obtain a remedy for the problem addressed by the recall in advance of receiving notification may seek reimbursement through the process outlined in the general reimbursement plan on file.
How Remedy Component Differs from Recalled Component :	The only way to distinguish a recalled gear and a remedy component is by checking the steering gear serial number.
Identify How/When Recall Condition was Corrected in Production :	A lockout timer was added that requires any steering gear that is in the ball drop station too long has to remove all recirculating balls and do a new ball drop.

Recall Schedule :

Description of Recall Schedule :	Notifications will be sent within 60 days.
Planned Dealer Notification Date :	SEP 26, 2022 - SEP 26, 2022
Planned Owner Notification Date :	SEP 26, 2022 - SEP 26, 2022

* NR - Not Reported