

# Part 573 Safety Recall Report

## 21V-629

**Manufacturer Name :** Polaris Inc.

**Submission Date :** AUG 13, 2021

**NHTSA Recall No. :** 21V-629

**Manufacturer Recall No. :** T-21-01



### Manufacturer Information :

Manufacturer Name : Polaris Inc.

Address : 2100 Highway 55  
Medina MN 55340

Company phone : 800-765-2747

### Population :

Number of potentially involved : 4,744

Estimated percentage with defect : 2 %

### Vehicle Information :

Vehicle 1 : 2020-2021 Polaris Slingshot

Vehicle Type : MOTORCYCLES

Body Style :

Power Train : GAS

**Descriptive Information :** The beginning of the recall population was determined by using statistical modeling from the earliest build date of the vehicles among the eight (8) warranty claims found to have loose lug nuts at the rear wheel. The end of the recall population was determined after 100% inspection, with a feeler gauge for wheel studs misassembled by the supplier, was implemented at the production plant.

The difference between the recalled products and products not included in the recall is that the recalled products were built with rear axles/stud assemblies that have a higher likelihood of being assembled improperly due to poor equipment maintenance at the supplier.

Production Dates : JAN 06, 2020 - MAY 24, 2021

VIN Range 1 : Begin : 57XAAPHD0L8139382 End : 57XAASHD7M8144230

☐ Not sequential

VIN Range 2 : Begin : 57XAAPHD9L8136366 End : 57XAAPHD2L8138296

☒ Not sequential

### Description of Defect :

**Description of the Defect :** Polaris has determined that some of the affected vehicles may have rear wheel studs that were not pressed into the axle fully during the supplier's assembly process.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** An improperly installed rear wheel stud could lead to loosening of the rear lug nuts, resulting in a loose or detached rear wheel during operation, increasing the risk of a crash.

Description of the Cause : The rear wheel studs were not properly assembled by the supplier.

Identification of Any Warning Noise/vibration can occur.  
that can Occur :

### Involved Components :

Component Name 1 : Rear axle/stud assembly

Component Description : NR

Component Part Number : NR

### Supplier Identification :

#### Component Manufacturer

Name : Zhejiang Juyue Gears Co., Ltd./Taizhou J

Address : No. 10 North Jintang Rd.

Eastern New City Wenling City Zhejiang Province Foreign States

Country : China

### Chronology :

In or about May 2021, as part of Polaris' proactive and routine review of warranty claims related to the subject population, Polaris identified eight (8) warranty claims for noise and vibration complaints. The source of the noise/vibration was determined to be loose lug nuts at the rear wheel.

Polaris began an investigation, which included outreach to the component supplier. Polaris learned that during the supplier's press fit assembly process, a portion of the splines is stripped, which prevents the studs from being fully pressed/seated during assembly or when the lug nut is torqued. Over time, the lug nuts at the rear wheel can loosen.

On August 3, 2021, Polaris' Executive Review Committee decided that the supplier's press fit assembly process resulted in a safety-related defect with regard to the Subject Vehicles.

8/13/21 Update: The warranty claims with noise and vibration complaints noted above were opened in 2021 on April 8th, April 20th, May 4th, May 13th (with an associated NDFR created on May 22nd), May 14th (two warranty claims were opened on this date), June 26th, and July 22nd (with an associated NDFR created on July 23rd). Polaris has not identified any reports involving a crash, injuries or deaths related to this reported issue.

**Description of Remedy :**

Description of Remedy Program :	Polaris will inform dealers of the reported concern and provide instructions to dealers to inspect the rear axle for an improperly assembled rear axle/stud assembly. Dealers will be further instructed to install a new rear axle/stud assembly, if the Subject Vehicles do not pass inspection, at no cost to consumers.
How Remedy Component Differs from Recalled Component :	The supplier is inspecting and verifying the rear stud/axle assemblies before they are shipped for correct assembly, and Polaris is inspecting and verifying rear stud/axle assemblies on hand for correct assembly.
Identify How/When Recall Condition was Corrected in Production :	The supplier will implement greater in-process controls to the press fit assembly process.

**Recall Schedule :**

Description of Recall Schedule :	Upon receipt of the recall acknowledgement letter, notifications will be emailed to dealers.  Upon approval, owner notification letters will be mailed no later than 60 days after submission of this report.
Planned Dealer Notification Date :	AUG 13, 2021 - AUG 13, 2021
Planned Owner Notification Date :	AUG 23, 2021 - AUG 23, 2021

\* NR - Not Reported