

Part 573 Safety Recall Report

16V-755

Manufacturer Name : Polaris Industries, Inc.

Submission Date : OCT 17, 2016

NHTSA Recall No. : 16V-755

Manufacturer Recall No. : T-16-06



Manufacturer Information :

Manufacturer Name : Polaris Industries, Inc.

Address : 7290 Vikings Blvd E

Wyoming MN 55092

Company phone : 888-704-5290

Population :

Number of potentially involved : 17,572

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2015-2017 Polaris Slingshot

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : Slingshot® is a three-wheeled motorcycle.

The affected vehicles were identified based on manufacturing records. The VINs identified contain all of the potentially affected machines.

Production Dates : MAR 04, 2014 - SEP 07, 2016

VIN Range 1 : Begin : 57XAASFA7F5100001 **End :** 57XAARFA7H8120002 Not sequential

Description of Defect :

Description of the Defect : Certain Slingshot vehicles may have been assembled with an improperly manufactured swing arm, resulting in decreased swing arm strength.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the swing arm is compromised it can result in a loss of forward momentum or control, increasing the risk of a crash.

Description of the Cause : The design of the casting tool used to produce the swingarm does not adequately prevent shrinkage porosity in a high stress area. This causes the swingarm to have insufficient strength when the vehicle strikes a pothole or other severe event.

Identification of Any Warning that can Occur : None

Supplier Identification :**Component Manufacturer**

Name : Polaris Industries
Address : 2100 Highway 55
Medina MINNESOTA 55340
Country : United States

Chronology :

Polaris became aware of one warranty claim for a broken swingarm on 6/8/16. Engineering became involved in July 2016 and began gathering data when two more swingarm fractures were reported (7/5/16, 7/6/16.) The supplier was engaged immediately and began root cause investigation of the manufacturing process. The decision to rule this a manufacturing defect was arrived at on 8/31/2016 once lab testing showed that production swingarms did not meet Polaris' in-house strength standards.

Description of Remedy :

Description of Remedy Program : Slingshot will send a Safety Recall Letter to all consumers of record instructing them to present their machine to a Slingshot dealer so that the repair can be performed at no cost to the consumer. The following appears in the consumer letter regarding reimbursement: If you have had this repair performed before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. For more information regarding reimbursement please contact your Slingshot dealer or the Slingshot Consumer Service Department using the information above.

How Remedy Component Differs from Recalled Component : The remedy component is a different part number (Old part is 5137905, new part is 5141107) , and has visible differences to the outside geometry of the part in the area of the defect. The difference is the machined remnant of gates/risers that were added to the part to improve the manufacturing process. These differences are visible without disassembling any part of the finished vehicle.

Identify How/When Recall Condition was Corrected in Production : The supplier for the swingarm was able to identify the root cause of the defects using mold flow analysis software. This led them to refine the design of the casting molds and alter the mold filling strategy. Parts from this revised tool were examined via both CT (3-d X-Ray), and physical testing and were shown to be free of defects in the critical area and to meet Polaris' impact strength requirements. These new parts were implemented from VIN #57XAARFA9H8120003 onward.

Recall Schedule :

Description of Recall Schedule : NR

Planned Dealer Notification Date : OCT 24, 2016 - NR

Planned Owner Notification Date : OCT 25, 2016 - NR

* NR - Not Reported