

# Part 573 Safety Recall Report

# 19V-728

**Manufacturer Name :** Arcimoto Inc

**Submission Date :** OCT 11, 2019

**NHTSA Recall No. :** 19V-728

**Manufacturer Recall No. :** NR



## Manufacturer Information :

Manufacturer Name : Arcimoto Inc

Address : 2034 W. 2nd Ave  
Eugene OR 97402

Company phone : 5958232

## Population :

Number of potentially involved : 10

Estimated percentage with defect : 100 %

## Vehicle Information :

Vehicle 1 : 2019-2019 Arcimoto FUV

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects first ten MY2019 vehicles produced through to 10/03/2019.

Production Dates : SEP 19, 2019 - OCT 03, 2019

VIN Range 1 : Begin : 7F7ATR312KER00000 End : 7F7ATR319KER00009  Not sequential

## Description of Defect :

Description of the Defect : Due to uncontrolled changes to vehicle alignment, there may be inadequate thread length of engagement (LoE) between inner and outer tie-rods.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the LoE between inner and outer tie-rods is inadequate, certain forces may cause the separation of the tie-rod assembly, which would make the vehicle more difficult to control and increase the likelihood of a crash.

Description of the Cause : Uncontrolled changes to vehicle alignment changed the LoE between inner and outer tie-rods over time, resulting in a potentially out-of-spec condition.

Identification of Any Warning that can Occur : None.

## Supplier Identification :

**Component Manufacturer**

Name : NR  
Address : NR  
NR  
Country : NR

## Chronology :

On October 03, 2019, Arcimoto Manufacturing Department identified an inadequate thread LoE between inner and outer tie-rods during alignment. Arcimoto immediately implemented a Stop-Sale and stopped manufacturing vehicles. Starting on October 03, 2019 and continuing through October 10, 2019, Engineering and Q&RA Departments performed research and analysis. On October 10, 2019, Engineering and Q&RA Departments presented research and analysis findings to Arcimoto executives, who subsequently decided on that same day to (1) validate Manufacturing Department's original findings, (2) validate additional findings of Safety issue from Engineering and Q&RA Departments, and (3) notify NHTSA of a Safety Recall.

## Description of Remedy :

**Description of Remedy Program :** The defect will be remedied using current BOM items by reworking various parts, including: (i) shimming upper control-arm rearward, (ii) shimming lower control-arm forward, (iii) tapping the upper control-arm approximately 10mm deeper for the upper ball-joint, (iv) implementing a revised method of alignment, (v) measuring resultant caster angle to verify specified target, and (vi) measuring resultant relationship between outer tie-rod and inner tie-rod to verify adequate LoE. Arcimoto is still researching alternative manufacturing process changes and evaluating whether a better remedy is available; however, whichever remedy is performed, it will be done free of charge to purchasers and owners. To the best of our knowledge, no owners have incurred any costs resulting from this defect.

**How Remedy Component Differs from Recalled Component :** By modifying the relationship of wheel system components, the remedied components are distinguished from recalled components by exhibiting a specified target caster angle and an adequate LoE between outer tie-rod and inner tie-rod.

**Identify How/When Recall Condition was Corrected in Production :** Manufacturing process changes to the relationship of wheel system components and method of alignment was implemented on October 11, 2019. The manufacturing process changes apply to all subsequently produced vehicles. Additionally, as part of the Outgoing Inspection, all completed vehicles will be verified to exhibit a specified target caster angle and an adequate LoE between outer tie-rod and inner tie-rod, so that no vehicle will leave Arcimoto's possession prior to ensuring these parameters are met.

**Recall Schedule :**

Description of Recall Schedule : NR

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

\* NR - Not Reported