Part 573 Safety Recall Report

Manufacturer Name :Arcimoto IncSubmission Date :DEC 31, 2018NHTSA Recall No. :18V-944Manufacturer Recall No. :7F7-P4G2A-12

Manufacturer Information :

Manufacturer Name : Arcimoto Inc Address : 2034 W. 2nd Ave Eugene OR 97402 Company phone : 5958232

Vehicle Information :

| Vehicle 1 : | 2018-2018 Arcimoto FUV | |
|---------------------------|--|--|
| | MOTORCYCLES | |
| Body Style : | | |
| 5 5 | HYBRID ELECTRIC | |
| Descriptive Information : | Fourteen vehicles may have potentially defective gearboxes. The recall population consists of all gearboxes assembled with castings machined by one specific sub-contractor. | |
| Production Dates : | JUL 02, 2018 - OCT 22, 2018 | |
| VIN Range 1: | Begin : 7F7ATR316JEB00009 End : 7F7ATR317JEB00018 🗌 Not sequential | |
| VIN Range 2: | Begin :7F7ATR315JEB00020End :7F7ATR310JEB00023Image: Not sequential | |

Population :

Description of Defect :

| Description of the Defect : | Out-of-control gearbox machining process causes eccentric bores, resulting in excessive side loads, casing bearing overheating and eventually gearbox breakdown. |
|---|---|
| FMVSS 1 : | NR |
| FMVSS 2 : | NR |
| Description of the Safety Risk : | The defect may leave the operator without traction power in the middle of the highway. |
| Description of the Cause : | Out-of-control gearbox machining process causes eccentric bores, resulting in excessive side loads, causing bearing overheating and eventually gearbox breakdown. |
| Identification of Any Warning that can Occur : | The defect is accompanied by a loud, propeller-like noise from the gearbox. |



Number of potentially involved :

Estimated percentage with defect : 70~%

14

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Supplier Identification :

Component Manufacturer

Name :Wolcott Design ServicesAddress :16650 NE Chehalem Drive
Newberg OREGON 97132Country :United States

Chronology:

A single driving report on VIN 7F7ATR318JEB00013 indicating pulling and excessive noise in early October 2018 resulted in a teardown of the gearbox in this vehicle and a thorough inspection of the bearings, showing excessive wear. Detailed analysis by the bearing supplier and gear supplier combined with measurement of the gearbox center and side castings indicated eccentric bores. Further gearbox teardowns confirmed that the problem was present in several of the gearboxes assembled using machined castings from one specific supplier but not in castings from previous suppliers. The resulting FMEA report was discussed with the Review Board on 12/18/2018, who escalated this to the PCM Group. The PCM Group met on 12/20/2018 and decided to escalate this as a recall candidate. Senior Management approved the recall on 12/21/2018.

Description of Remedy :

| Description of Remedy Program : | Arcimoto will replace all potentially affected gearboxes with correctly machined and assembled gearboxes at no cost to purchasers and owners of the vehicles. To the best of our knowledge, no owners have incurred any costs as a result of this defect. |
|---------------------------------|--|
| | The recalled component was assembled using out-of-tolerance machined gearbox castings from one specific sub-contractor. The remedy component does not contain out-of-tolerance machined gearbox castings from this sub-contractor. |
| | All machined gearbox castings from the defective batch have been quarantined. All replacement parts have been machined in house and were 100% measured to demonstrate conformance to specifications. |

Recall Schedule :

| Description of Recall Schedule : | Arcimoto has retrieved all vehicles subject to this recall. All vehicles are currently under Arcimoto control and will not be returned to their owners or used on public roads until all recalls have been completed by Arcimoto. |
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| Planned Dealer Notification Date : | NR - NR |
| Planned Owner Notification Date : | NR - NR |

The information contained in this report was submitted pursuant to 49 CFR §573

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* NR - Not Reported

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