Part 573 Safety Recall Report 18V-945

Manufacturer Name : Arcimoto Inc
Submission Date : DEC 31, 2018
NHTSA Recall No. : 18V-945
Manufacturer Recall No. : 7F7-A3N5H-12

Manufacturer Information :

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

Population :

Number of potentially involved : 22
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2017-2018 Arcimoto FUV
Vehicle Type : MOTORCYCLES
Body Style : OTHER
Power Train : HYBRID ELECTRIC
Descriptive Information : The recall population was determined based on records showing the Bill Of Material and Assembly Instructions used during production. Recalled products have various tie-rod ball & socket construction issues that may result in a loss of steering suspension, and loss of vehicle control.
Production Dates : NOV 01, 2017 - OCT 22, 2018

VIN Range 1 :	Begin :	7F7ATR317HEB00000	End :	7F7ATR319HEB00001	☐ Not sequential
VIN Range 2 :	Begin :	7F7ATR311JEB00001	End :	7F7ATR315JEB00003	☐ Not sequential
VIN Range 3 :	Begin :	7F7ATR319JEB00005	End :	7F7ATR319JEB00005	☐ Not sequential
VIN Range 4 :	Begin :	7F7ATR312JEB00007	End :	7F7ATR317JEB00018	☐ Not sequential
VIN Range 5 :	Begin :	7F7ATR315JEB00020	End :	7F7ATR310JEB00023	☐ Not sequential

Description of Defect :

Description of the Defect : Four tie-rod & socket construction problems in the front suspension may result in loss of steering, suspension and loss of vehicle control.
FMVSS 1 : NR
FMVSS 2 : NR
Description of the Safety Risk : A sudden loss of loss of steering, suspension or loss of vehicle control may increase the risk of a crash.
Description of the Cause : There are four design and construction problems that contribute to this defect. 1) the use of a tie-rod construction in a ball-joint application; as a result, axial forces could cause the ball to penetrate through the top-cap of the tie-rod; 2) the use of a nylon insert lock nut which can loosen and allow the tie-rod to separate from the knuckle; 3) out-of-spec major thread diameter, which allows

	the shaft to loosen and separate from the control arm; 4) the knuckle's taper bushing is not properly matched to the ball-joint system, which accelerates wear & play.
Identification of Any Warning that can Occur :	The defect is preceded by loud squeaking and clunking noises in the front suspension.

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

Several reports of squeaking and clunking noises on VIN 7F7ATR317HEB00000, VIN 7F7ATR316JEB00009 and VIN 7F7ATR312JEB00010 resulted in an FMEA report to the Review Board, who escalated this to the PCM group. The PCM Group met on 10/17/2018 and decided to escalate this as a recall candidate. Senior Management approved the recall on 11/6/2018.

Description of Remedy :

Description of Remedy Program :	Arcimoto will replace all affected tie-rods with correctly designed and manufactured ball joints with castle nuts 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.
How Remedy Component Differs from Recalled Component :	The new ball joint (PN 003111) replaces the old tie-rod (PN 000549).
Identify How/When Recall Condition was Corrected in Production :	New designs, BOMs, assembly and manufacturing instructions have been put in place (ECO-67) starting with VIN 7F7ATR312JEB00024.

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.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	NR - NR

* NR - Not Reported