

Part 573 Safety Recall Report

21V-314

Manufacturer Name : Arcimoto Inc**Submission Date :** AUG 27, 2021**NHTSA Recall No. :** 21V-314**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Arcimoto Inc

Address : 2034 W. 2nd Ave
Eugene OR 97402

Company phone : 5416836293

Population :

Number of potentially involved : 255

Estimated percentage with defect : 50 %

Vehicle Information :

Vehicle 1 : 2019-2021 Arcimoto FUV

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all two-hundred forty-eight MY2019 - MY 2021 T-FUV vehicles (fifty-seven MY2019 T-FUV, one-hundred twenty-six MY2020 T-FUV, sixty-five MY2021 T-FUV) produced from 09/19/2019 through to 04/26/2021.

Production Dates : SEP 19, 2019 - APR 26, 2021

VIN Range 1 : Begin : 7F7ATR312KER00000	End : 7F7ATR317KER00056	<input type="checkbox"/> Not sequential
VIN Range 2 : Begin : 7F7ATR312LER00001	End : 7F7ATR310LER00126	<input type="checkbox"/> Not sequential
VIN Range 3 : Begin : 7F7ATR310MER00001	End : 7F7ATR315MER00009	<input type="checkbox"/> Not sequential
VIN Range 4 : Begin : 7F7ATR313MER00011	End : 7F7ATR314MER00048	<input type="checkbox"/> Not sequential
VIN Range 5 : Begin : 7F7ATR312MER00050	End : 7F7ATR313MER00056	<input type="checkbox"/> Not sequential
VIN Range 6 : Begin : 7F7ATR319MER00059	End : 7F7ATR317MER00061	<input type="checkbox"/> Not sequential
VIN Range 7 : Begin : 7F7ATR310MER00063	End : 7F7ATR31XMER00068	<input type="checkbox"/> Not sequential
VIN Range 8 : Begin : 7F7ATR318MER00070	End : 7F7ATR318MER00070	<input type="checkbox"/> Not sequential
VIN Range 9 : Begin : 7F7ATR318MER00084	End : 7F7ATR318MER00084	<input type="checkbox"/> Not sequential

Vehicle 2 : 2021-2021 Arcimoto Rapid Responder

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects the one MY2021 E-Rapid Responder vehicle produced on 02/21/2021.

Production Dates : FEB 21, 2021 - FEB 21, 2021

VIN Range 1 : Begin : 7F7AER318MER00001 End : 7F7AER318MER00001 Not sequential

Vehicle 3 : 2020-2020 Arcimoto Deliverator

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all six MY2020 D-Deliverator-1 vehicles produced from 01/30/2020 through to 10/19/2020.

Production Dates : JAN 30, 2020 - OCT 19, 2020

VIN Range 1 : Begin : 7F7ADR316LER00001 End : 7F7ADR315LER00006 Not sequential

Description of Defect :

Description of the Defect : Seatbelt Retractors' Spool Sleeves have cracks and broken-off pieces, resulting in Retractor rattling, plastic pieces falling out of the Retractor, and seatbelt failure to retract.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Seatbelts are a critical safety system and compose the vehicles safety restraint system, a seatbelt Retractor failure may increase the risk of injury in the event of an accident.

Description of the Cause : To date, the Root Cause has not been identified as further research continues to be done.

Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name 1 : Seat Belt Retractors

Component Description : Return seat belt to original position

Component Part Number : 000661

Supplier Identification :

Component Manufacturer

Name : GWR

Address : 4466 C D Banks

St. Louis Missouri 63113

Country : United States

Chronology :

Since May 2020, there have been customer complaints about seatbelt Retractors, with broken-off pieces from the plastic Spool Sleeve. Quality first became aware of this issue on 01/21/21. Between Feb and Mar 2021, Quality informed the supplier, examples were sent for its review, the supplier issued its 8D Report and has not accepted any responsibility for the Failure Modes (cracks, broken Spool Sleeve) or effects (rattle, pieces, failure to retract). The supplier stated that the seatbelt problem was a performance issue and not a safety issue. Regulatory was informed of the issue the week ending 4/23/21. On 4/26/21, PCM-41 was convened with all in-house Stakeholders, and a strategy for basic data collection was assigned. PCM-41 members reviewed the data collected from inspections, testing, and audits during the week ending 4/30/21, and arrived at the following preliminary understanding: overall, the total vehicle population is affected and total in-stock population of retractors is affected; there is a correlation between cracks and brittleness as demonstrated in a falling-mass crush-test and a correlation between cracks and eventual broken-off pieces; there is a weak correlation between number of cracks and passage of time or miles driven, and a weak correlation to batch because all batches from all years going back to 2015 have cracks; and retractors built with Spool Sleeves from seatbelt supplier's alternate Spool Sleeve supplier do not show cracks and are not brittle. After investigating the seriousness of the problem Arcimoto has decided that this is a critical safety issue not just a performance problem as stated by the seatbelt supplier. Due to the seriousness of the ongoing issue, Arcimoto has decided action must be taken. On 4/30/21 another PCM meeting was held and it was recommended this issue be escalated as a recall-candidate to Leadership. On 5/3/21, Leadership accepted the recommendation with a majority vote and agreed to a voluntary safety recall.

Description of Remedy :

Description of Remedy Program : Owners will be notified by mail and instructed to contact Arcimoto to schedule a service appointment to have their seat belt Retractors replaced. There will be no charge to vehicle owners for this service. To the best of our knowledge, no owners have incurred any costs resulting from this defect.

How Remedy Component Differs from Recalled Component : The Root Cause Analysis is complete on Arcimoto's end. Findings indicated that the plastic resin used to form the Spool Sleeve by the supplier in certain batches of the seat belt retractors was found to be susceptible to the cracks and brittleness. Permanent Corrective Action has already been implemented by Arcimoto to only use seat belt retractors from newer batches that use the alternate plastic resin from a different source. Owners are being asked to bring their vehicle into Service to have their seat belt retractors inspected and replaced if necessary.

Identify How/When Recall Condition was Corrected in Production :

Starting the week of May 17th, 2021, Arcimoto began only using in production the supplier's Retractors built with Spool Sleeves from the seatbelt supplier's alternate Spool Sleeve supplier that uses a different plastic resin.

Starting the week of May 17th, 2021, Arcimoto began using only supplier's Retractors built with Spool Sleeves from seatbelt supplier's alternate Spool Sleeve supplier that are 100% quality checked before being used in production.

Recall Schedule :

Description of Recall Schedule : Arcimoto does not intend to send any dealer or distributor notifications, as it has neither dealers nor distributors at this time.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : MAY 31, 2021 - JUN 17, 2021

* NR - Not Reported