

Part 573 Safety Recall Report

21E-087

Manufacturer Name : Arcimoto Inc**Submission Date :** OCT 01, 2021**NHTSA Recall No. :** 21E-087**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 : 30

Estimated percentage with defect : 1 %

Equipment Information :

Brand / Trade 1 : Arcimoto

Model : TRiO

Part No. : TRiO

Size : NR

Function : Conversion Kit

Descriptive Information : Affects approximately thirty (30) TRiO accessory kits produced from 02/08/2021 through to 09/24/2021. This recall covers all TRiO accessory kits sold by Arcimoto since acquiring the assets of Tilting Motor Works (the original designer/manufacturer)

Production Dates : FEB 08, 2021 - SEP 24, 2021

Description of Defect :

Description of the Defect : The bolt that provides the connection from the shock hoop to the pivot plate may be susceptible to failure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Failure of the bolt can cause the unit to become inoperable or cause immediate loss of traction power, which would make the vehicle more difficult to control, increasing the risk of a crash

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

Identification of Any Warning that can Occur : None

Involved Components :

Component Name : 1 1/4 inch Bolt

Component Description : 1 1/4 inch Bolt

Component Part Number : 006443

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

On 2/4/ 2021, Arcimoto completed the purchase of the assets of Tilting Motor Works, Inc (TMW) which was the original designer and manufacturer of the TRiO accessory kit. There were two designs of TRiO kits. The original design used a single bolt per side. This design was applied to very early production units manufactured by TMW. A new design was subsequently implemented using two bolts per side. All Arcimoto-produced units used this design. The correct fastener length on the kits is 1.25 in. From Feb 8th through Sep 24th, Arcimoto manufactured and sold 30 of the subject kits. In Sep 2021, Arcimoto learned of two TRiO kits that had bolt failures. Both of these units were manufactured by TMW and were identified as having shorter bolts (1.0 in) than was specified (1.25 in). One of these units also had a loose Heim Joint Jam Nut. On 9/15/2021, Arcimoto held a Problem Communication Meeting (PCM) to discuss the failed bolts in the two different TRiO kits. The investigation centered around failure of the connection from the shock hoop to the pivot plate, which caused the unit to become inoperable. The PCM requested more data to evaluate the severity of the issue. On 9/20/2021, a follow-up PCM was held, and an audit of kits in inventory revealed that the majority have a 1.0 in. bolt. It was unknown whether a 1.25 in. bolt was adequate and more information is still being gathered. Because of potential safety concerns about the larger population, and there is no known advance warning to the vehicle operator of the failure, the PCM group voted to present this as a recall candidate. On 9/24/2021, Arcimoto's leadership accepted the recommendation with a majority vote and declared a voluntary safety recall. Arcimoto is not aware of any reports of accidents or injuries related to this condition and, to date, no failures have been reported in kits manufactured by Arcimoto. (Both failures referenced above involved kits manufactured and sold by Tilting Motor Works.)

Description of Remedy :

Description of Remedy Program : Owners will be notified by mail and instructed to contact Arcimoto, or their dealer, to have remedy performed at no charge. The remedy is still under development, and we will amend this report when development is complete.

How Remedy Component Differs from Recalled Component : Remedy still under development.

Identify How/When Recall Condition was Corrected in Production : Production of this product was suspended on September 24th 2021 pending determination of a corrective action.

Recall Schedule :

Description of Recall Schedule : Notification dates will be dependent upon the development of the remedy and will be updated once there is further information.

Planned Dealer Notification Date : NOV 15, 2021 - NOV 22, 2021

Planned Owner Notification Date : NOV 15, 2021 - NOV 22, 2021

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR

Address : NR

NR

Country : NR

Company Phone : NR

* NR - Not Reported