

Part 573 Safety Recall Report

21E-087

Manufacturer Name : Arcimoto Inc**Submission Date :** NOV 18, 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 : The root cause of the failure has been identified to be a loss of clamp load on the bolts. The loss of clamp load could be caused by any of the three following scenarios. The first possible scenario is correct torque without threadlocker. The second possible scenario is improper torque without threadlocker. The third possible scenario is improper torque with threadlocker.

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. One of these units was manufactured by TMW and was identified as having shorter bolts (1.0 in) than was specified (1.25 in), the other is still unknown. 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 1.0 in. bolts. 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, to have remedy performed at no charge. Owners will be asked to bring their vehicle to Arcimoto to have their equipment inspected and re-worked to ensure lockthread is present and to have the bolts torqued to the appropriate ft/lbs of torque.

How Remedy Component Differs from Recalled Component : The previous bolts used on the failing equipment showed that they were installed with the improper torque and improper lockthread on the bolts. The remedy will ensure that the equipment is inspected and that proper torque and lockthread are used.

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. With the root cause being discovered and using high accelerated testing to ensure that the new specifications will correct the defect. Production will begin 11/18/2021

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 22, 2021 - NOV 29, 2021

Planned Owner Notification Date : NOV 22, 2021 - NOV 29, 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