

Part 573 Safety Recall Report

22V-175

Manufacturer Name : Arcimoto Inc**Submission Date :** JUN 09, 2022**NHTSA Recall No. :** 22V-175**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 : 541

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2019-2022 Arcimoto FUV

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all five-hundred Forty MY2019 - MY2022 vehicles fifty-seven MY2019 T-FUV, one-hundred twenty-six MY2020, two-hundred seventy-five MY2021, and twenty nine MY2022, six MY2020 D-Deliverator-1, twenty-three MY2021 D-Deliverator-1 four MY2021 Roadster, twenty - MY2021 Roadster, and one MY2021 E-Rapid Responder, produced from 09/19/2019 through to 04/25/22.

Production Dates : SEP 19, 2019 - APR 25, 2022

VIN Range 1 : Begin : 7F7ATR312KER00000 End : 7F7ATR317KER00056

☐ Not sequential

VIN Range 2 : Begin : 7F7ATR312LER00001 End : 7F7ATR310LER00126

☐ Not sequential

VIN Range 3 : Begin : 7F7ATR310MER00001 End : 7F7ATR314MER00275

☐ Not sequential

VIN Range 4 : Begin : 7F7ATR319NER00001 End : 7F7ATR319NER00029

☐ Not sequential

Vehicle 2 : 2021-2022 Arcimoto Rapid Responder

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all five-hundred Forty MY2019 - MY2022 vehicles fifty-seven MY2019 T-FUV, one-hundred twenty-six MY2020, two-hundred seventy-five MY2021, and twenty nine MY2022, six MY2020 D-Deliverator-1, twenty-three MY2021 D-Deliverator-1 four MY2021 Roadster, twenty - MY2021 Roadster, and one MY2021 E-Rapid Responder, produced from 09/19/2019 through to 04/25/22.

Production Dates : JAN 01, 2021 - MAR 21, 2022

VIN Range 1 : Begin : 7F7AER318MER00001 End : 7F7AER318MER00001

☐ Not sequential

Vehicle 3 : 2020-2022 Arcimoto Roadster

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all five-hundred Forty MY2019 - MY2022 vehicles fifty-seven MY2019 T-FUV, one-hundred twenty-six MY2020, two-hundred seventy-five MY2021, and twenty nine MY2022, six MY2020 D-Deliverator-1, twenty-three MY2021 D-Deliverator-1 four MY2021 Roadster, twenty - MY2021 Roadster, and one MY2021 E-Rapid Responder, produced from 09/19/2019 through to 04/25/22.

Production Dates : JAN 01, 2020 - MAR 21, 2022

VIN Range 1 : Begin : 7F7ARR314LER00001 End : 7F7ARR31XLER00004

☐ Not sequential

VIN Range 2 : Begin : 7F7ARR312MER00001 End : 7F7ARR316MER00020

☐ Not sequential

Vehicle 4 : 2020-2022 Arcimoto Deliverator

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : Affects all five-hundred Forty MY2019 - MY2022 vehicles fifty-seven MY2019 T-FUV, one-hundred twenty-six MY2020, two-hundred seventy-five MY2021, and twenty nine MY2022, six MY2020 D-Deliverator-1, twenty-three MY2021 D-Deliverator-1 four MY2021 Roadster, twenty - MY2021 Roadster, and one MY2021 E-Rapid Responder, produced from 09/19/2019 through to 04/25/22.

Production Dates : JAN 01, 2021 - MAR 21, 2022

VIN Range 1 : Begin : 7F7ADR316LER00001 End : 7F7ADR315LER00006

☐ Not sequential

VIN Range 2 : Begin : 7F7ADR314MER00001 End : 7F7ADR313MER00023

☐ Not sequential

Description of Defect :

Description of the Defect : The brake pressure switches have intermittent failures, caused by the brake pressure sensor remaining closed, due to salt water and other chemicals found in deicers. This results in the brake lights remaining in a constant on state.

FMVSS 1 : 122 - Motorcycle brake systems

FMVSS 2 : NR

Description of the Safety Risk : Brake lights are an important part of the brake warning system. If the brake lights are not functioning properly there is no way for other vehicles on the road to know if your vehicle is coming to a stop or not. When this system is not working properly it increases the risk of the vehicle being involved in a crash.

Description of the Cause : The brake pressure switch lacked enough dielectric grease in the connectors. This allowed salt water and winter de-icers the ability to saturate the connectors. This caused a disruption in the connectors that allowed the rear brake lights to remain open in certain cases which caused the brake lights themselves to remain on.

Identification of Any Warning that can Occur : None.

Involved Components :

Component Name 1 : Brake Pressure Switch (001063)

Component Description : Brake Pressure Switch

Component Part Number : 001063

Supplier Identification :

Component Manufacturer

Name : Hayes Performance Systems

Address : 5800 W Donges Bay Rd
Mequon Wisconsin 53092

Country : United States

Chronology :

On 11/5/21 a field report was made regarding the rear brake lights intermittently remaining in an on state. There were additional reports, stating the same issue. There were two (2) reports on 11/23/21, 12/26/21 (second time, same vehicle), 1/26/22 and 2/23/22. On 2/10/22 the details of the field reports were reported to the Quality and Regulatory departments and a problem communication meeting was conducted on 2/17/22. It was agreed upon at that time that a shipping hold would be requested until a root cause and remedy could be determined. The research found that there was a corrosion problem in the brake pressure sensor switch caused by salt water and other contaminants such as deicers. On 3/23/22 the temporary solution was to apply dielectric grease to the connection to prevent the corrosion and the brake lights from remaining on. However this did not fully fix the problem. As over time the dielectric grease would wash away from exposure to the elements and the problem would reappear. It was determined that a more robust solution was needed to prevent another reappearance of the problem. After doing some more experimenting and research it was determined on 4/25/22 that adding a shrink wrap protection to the connection along with the dielectric grease would eliminate the problem.

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 the brake pressure switch inspected and have the dielectric grease added to the connection to prevent the brake lights from remaining on. The brake sensor switch connect will also be fitted with shrink wrap to prevent any moisture from entering the connection again. Only the Arcimoto service department is allowed to perform the brake pressure switch upgrade, so there will be no reimbursement if the remedy work is done by anyone other than Arcimoto. 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 :	With no sealable option for such a connector to mate with a blade type terminals on the switch side of the brake pressure sensor connection, outside elements such as salt water and other chemicals found in deicers can interfere with the brake sensor switch connectors. A dielectric grease will be added to the connection to prevent the outside elements from interfering with the connection and a heated shrink wrap will be applied over the connection to prevent moisture from reaching the connector.
Identify How/When Recall Condition was Corrected in Production :	Beginning on 3/23/22 an engineering change was made to require the use of the dielectric grease on the brake pressure switch during production so that this will temporarily fix the problem with the corrosion and the other environmental chemicals from disrupting the connection in the switch and causing it to remain closed. On 4/25/22 a heated shrink wrap will be applied over the connection to prevent moisture from reaching the connector.

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 :	MAY 27, 2022 - JUN 03, 2022
Planned Owner Notification Date :	MAY 27, 2022 - JUN 03, 2022

* NR - Not Reported