



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

Part 573 Safety Recall Report

25V834

Manufacturer Name: Zero Motorcycles Inc.

Submission Date: Dec 02, 2025

NHTSA Recall No.: 25V834

Manufacturer Recall No.: SV-RCL-025-021

Manufacturer Information

Population

Manufacturer Name: Zero Motorcycles Inc.

Address: 380 El Pueblo Road
Scotts Valley CA, 95066

Total number of potentially involved: 7

Estimated percentage with defect: 100%

Vehicle Information

Vehicle 1: 2023-2023 ZERO DSR/X

Product Category: Motorcycles

Product Type: Motorcycles

Fuel / Propulsion: Electric Battery Power

Production Dates: Jul 04, 2022 - Apr 21, 2023

Number of potentially involved: 7

Descriptive Information:

When assembled incorrectly, the motor controller can experience higher resistance at the busbar joint, causing an overvoltage event. In this case, the controller supplier used non-phosphate-coated fasteners at internal bus bar joints, which have different frictional characteristics, reducing preload at the specified torque and creating higher-resistance bus bar connections.

Defect / Noncompliance Description

Description of the defect or noncompliance:

When assembled incorrectly, the motor controller can experience higher resistance at the busbar joint, causing an overvoltage event. In this case, the controller supplier used non-phosphate-coated fasteners at internal bus bar joints, which have different frictional characteristics, reducing preload at the specified torque and creating higher-resistance bus bar connections.

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

Higher resistance at the joint can cause an overvoltage event, leading the Mid Pack Protection Unit

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(MPPU) to fail open and causing an unexpected loss of propulsion while riding. A loss of forward propulsion may increase crash risk.

Description of the cause:

Non-coated fasteners were introduced under a supplier deviation due to material shortage. The supplier's risk assessment considered coating insulation and oxidation characteristics but did not evaluate friction effects on preload.

Identification of any warning that can occur:

No known warnings precede this condition.

Component Manufacturer

Tier of Supplier: Tier 2

Supplier Type: OEM

Name: DANA TM4 Italia S.r.l.

Address: Via della Tecnica, 40 Z.I.
Arzingnano Foreign States, 36071

Country: Italy

Involved Components

Component Name 1: Motor Controller

Component Description: CONTROLLER DANA X1 750A(S2) INTEGRATED HEATSINK A3 (8365 CHIP)

Component Part Number: 30-08089

Chronology

- **Late September 2025:** Zero proactively reviewed all 'quits while running' cases and identified a pattern of controller failures consistent with overvoltage events. No related injuries or crashes were reported.
- **October 7–9, 2025:** Zero engineering staff met onsite with Dana in Italy to evaluate potential causes. Loose high-power fasteners, caused by the use of non-phosphate-coated fasteners were identified as a likely contributor.
- **October 21, 2025:** Zero convened a Product Integrity Team Zero (PITZ) review and determined that escalation was warranted.
- **October 23, 2025:** Zero notified Dana of its preliminary root-cause assessment, shared supporting test results, and requested supplier validation.

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- **October 28, 2025:** Zero initiated direct engagement with Dana's Global Warranty leadership to expedite alignment and advance remedy planning.

Zero and Dana are in full alignment on the root cause as being the use of non-phosphate coated fasteners in the controller, and are jointly progressing the corrective action plan.

Related NHTSA Recall Number:

Description of Remedy

Remedy Type: Repair, Replace

Consumer Advisories: ☐ Do Not Drive ☐ Park Outside

Description of remedy program:

Zero Motorcycles will replace the controller on all affected units at no cost to owners.

How remedy component differs from recalled component:

Remedy controllers include phosphate coated hardware, and the supplier has implemented DC tool torque verification to ensure proper preload at high power joints.

Identify how/when recall condition was corrected in production:

The condition was corrected in production when the material shortage was no longer an issue and the proper phosphate coated hardware was used.

Reimbursement Plan

Description of reimbursement program:

No customer reimbursements should be necessary as all units are still in warranty.

Period of reimbursement:

Costs to be reimbursed:

Address for reimbursement claims:

Recall Schedule

Description of recall schedule:

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Zero will notify its dealers by 12/5/2025 of the recall. Zero will have a follow up notification with the specific remedy details by 12/19/2025. Zero will notify owners by 1/16/2026

Planned Dealer Notification Date: Dec 05, 2025 - Dec 19, 2025 ☐ No Dealers

Planned Interim Owner Notification Date: Jan 09, 2026 - Jan 16, 2026 ☐ No Owners

Planned Remedy Owner Notification Date: Jan 09, 2026 - Jan 16, 2026 ☐ Phased Recall

Date when VIN will be searchable: Dec 19, 2025