Part 573 Safety Recall Report 24E-093

Manufacturer Name : A2ZEV
Submission Date : NOV 15, 2024
NHTSA Recall No. : 24E-093
Manufacturer Recall No. : NR

Manufacturer Information :

Manufacturer Name : A2ZEV
Address : 1690 Place de Lierre
Laval, Quebec 00 H7G4X7
Company phone : 2293873

Population :

Number of potentially involved : 10,300
Estimated percentage with defect : 100 %

Equipment Information :

Brand / Trade 1 : A2ZEV
Model : NACS Charger Adapter (Original Typhoon/Slider Lock)
Part No. : NC1V101(2)24DC(-ILW)
Size : NR
Function : EV Charging
Descriptive Information : Model numbers : NC1V10124DC & NC1V10224DC-ILW
Production Dates : JAN 12, 2023 -JAN 06, 2024

Description of Noncompliance :

Description of the Noncompliance : For the early adapter units (Version 1 of the NACS to CCS1 adapters): (1) after approximately 10,000 inserts and withdrawals the locking mechanism may not retain the NACS connector with the same force; and (2) if the adapter is used at high amperage charging (≥ 500 amps) for sustained periods of use (e.g. : 1 hour), the surface temperature of the connected charging equipment may increase by approximately 5-10°C to a temperature which exceeds recently publicized maximum temperatures standards and the charging session may experience a reduction in power or a halt of the charging session.

FMVSS 1 : NR
FMVSS 2 : NR

Description of the Safety Risk : The Version 1 adapter's locking mechanism retaining force to the NACS connector may become degraded thereby decreasing retaining force and after sustained periods of use (one hour or more) the user may perceive a slightly higher temperature than the publicized and updated standards on the surface of the Version 1 adapter.

A higher surface temperature can lead to personal injury.

Description of the Cause :	Users may feel discomfort from the adapter's surface temperature. The early adapter units (Version 1) were designed, manufactured and released with a reliance on vehicle and EVSE thermal management based on standards prescribed at the time for such adapters which were not finalized and subject to constant change. The adapter's locking mechanism has a retaining force of +/- 475N, and now the publicized and updated standard is 753N. The adapter (Version 1) has full insulation in order to avoid short circuits, absorb shocks and allow for heat dissipation, but at high amperage charging (≥ 500 amps) for sustained periods of use (e.g. : 1 hour) the adapter's surface temperature may exceed the now publicized and updated maximum temperature standards and a charging session may experience a reduction in power or a halt of the charging session. Version 2 of the NACS to CCS1 adapter complies with the publicized and updated standards.
Identification of Any Warning that can Occur :	The Version 1 adapter's locking mechanism retaining force to the NACS connector may become degraded after thousands of inserts and withdrawals thereby decreasing retaining force. If the locking mechanism becomes degraded or damaged, the Version 1 adapter may stop working. After sustained periods of use (one hour or more) the user may perceive a slightly higher temperature than the publicized and updated standards on the surface of the Version 1 adapter and the charging session may experience a reduction in power.

Involved Components :

Component Name :	Original Typhoon/Slider Lock
Component Description :	NACS Charger Adapter (Original Typhoon/Slider Lock)
Component Part Number :	NC1V10124DC & NC1V10224DC-ILW

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR Foreign States
Country :	China

Chronology :

On June 17, 2024, A2Z received a cease and desist notice from Tesla, Inc. that Tesla considered A2Z's Version 1 NACS to CCS1 adapter to be possibly unsafe. Tesla cited Version 1's locking mechanism and surface temperature. A2Z responded to Tesla with information and documents supporting that the units were not unsafe, and that in any event A2Z was no longer distributing Version 1 of the NACS to SSC1 adapter and instead A2Z had addressed Tesla's purported concerns through improvements and implemented recent publicized and updated standards in A2Z's Version 2 of the NACS to CCS1 adapter. Notwithstanding A2Z's response, Tesla continued to assert the Version 1 adapter was possibly unsafe and insisted that A2Z issue a voluntary recall on Version 1 adapters sold by A2Z and file this report with NHTSA. Notwithstanding A2Z's disagreement with Tesla, A2Z agreed to submit this voluntary recall to offer an improved superior product (Version 2 of the NACS to CCS1 adapter) to A2Z's customers.

There has been no report of a safety event whatsoever.

Description of Remedy :

Description of Remedy Program :	A2Z will offer a replacement of Version 1 with Version 2 of the NACS to CCS1 adapter. All V1 adapters are under warranty, there will be no cost associated with the exchange to V2.
How Remedy Component Differs from Recalled Component :	Version 2 of the NACS to CCS1 adapter complies with the publicized and updated standards. Version 2 has metal locking pin instead of plastic with a retaining force over 900N and is a better overall adapter with improvements over V1.
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	In November 2024, A2Z will notify by all customers of its Version 1 adapter with email addresses on file that they were eligible for a replacement of the Version 1 NACS to CCS1 adapter with the Version 2 of A2Z's NACS to CCSI adapter. A2Z will provide contact information for customers to request Version 2 of the NACS to CCS1 adapter and an address for customers to send the Version 1 adapter. Customers have been notified by email, a physical letter will follow. Customers may contact : Safety@a2zevshop.com if they have questions.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	DEC 15, 2024 - NR

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