

Part 573 Safety Recall Report

24V-217

Manufacturer Name : Porsche Cars North America, Inc.

Submission Date : APR 29, 2024

NHTSA Recall No. : 24V-217

Manufacturer Recall No. : ARA5



Manufacturer Information :

Population :

Manufacturer Name : Porsche Cars North America, Inc.

Number of potentially involved : 749

Address : One Porsche Drive

Estimated percentage with defect : 100 %

Atlanta GA 30354

Company phone : 1-800-767-7243

Vehicle Information :

Vehicle 1 : 2021-2024 Porsche Taycan

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : JAN 26, 2021 - DEC 04, 2023

VIN Range 1 : Begin: WPOAA2Y19MSA13580 End: WPOAA2Y16RSA13155 Not sequential

Vehicle 2 : 2020-2024 Porsche Taycan 4S

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : MAR 03, 2020 - DEC 15, 2023

VIN Range 1 : Begin: WPOAB2Y16LSA50243 End: WPOAB2Y11RSA36310 Not sequential

Vehicle 3 : 2021-2023 Porsche Taycan 4 Cross Turismo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : JUL 02, 2021 - NOV 29, 2023

VIN Range 1 : Begin: WPOBA2Y18MSA71099 End: WPOBA2Y12RSA60378 Not sequential

Vehicle 4 : 2022-2023 Porsche Taycan 4S Cross Turismo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : OCT 06, 2021 - JUL 21, 2023

VIN Range 1 : Begin : WPOBB2Y17NSA71089 End : WPOBB2Y10PSA65587 Not sequential

Vehicle 5 : 2023-2023 Porsche Taycan Turbo Cross Turismo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : OCT 13, 2022 - APR 12, 2023

VIN Range 1 : Begin : WPOBC2Y1XPSA68025 End : WPOBC2Y17PSA68130 Not sequential

Vehicle 6 : 2022-2023 Porsche Taycan Turbo S Cross Turismo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : APR 21, 2022 - NOV 28, 2023

VIN Range 1 : Begin : WPOBC2Y12NSA74172 End : WPOBC2Y15RSA68100 Not sequential

Vehicle 7 : 2022-2024 Porsche Taycan GTS

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : JAN 26, 2022 - FEB 01, 2024

VIN Range 1 : Begin : WPOAD2Y13NSA59074 End : WPOAD2Y10RSA48040 Not sequential

Vehicle 8 : 2022-2024 Porsche Taycan GTS Sport Turismo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : FEB 10, 2022 - DEC 15, 2023

VIN Range 1 : Begin : WPOCD2Y10NSA85088 End : WPOCD2Y19RSA84284 Not sequential

Vehicle 9 : 2020-2024 Porsche Taycan Turbo

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : DEC 19, 2019 - SEP 21, 2023

VIN Range 1 : Begin : WPOAC2Y16LSA70666 End : WPOAC2Y1XPSA52466 Not sequential

Vehicle 10 : 2020-2023 Porsche Taycan Turbo S

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : The vehicles were identified by data analytics to identify affected clusters of production.

Production Dates : NOV 15, 2019 - JUN 14, 2023

VIN Range 1 : Begin : WPOAC2Y17LSA70448 End : WPOAC2Y1XPSA52466 Not sequential

Description of Defect :

Description of the Defect : Certain Taycan high-voltage batteries experience short circuits within the battery modules, which can lead to thermal events and in some cases fires.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A short circuit in the high-voltage battery module can increase the risk of a thermal event.

Description of the Cause : The root cause analysis suggests that production issues in high-voltage battery modules can increase the risk of internal short circuits.

Identification of Any Warning that can Occur : There are no warnings.

Involved Components :

Component Name 1 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.591.B

Component Name 2 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.592.B

Component Name 3 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.591.C

Component Name 4 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.592.C

Component Name 5 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.591.G

Component Name 6 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.592.G

Component Name 7 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.591.H

Component Name 8 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.592.H

Component Name 9 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.591.J

Component Name 10 : Cell block module in high-voltage battery

Component Description : Cell block module in high-voltage battery

Component Part Number : 9J1.915.592.J

Supplier Identification :

Component Manufacturer

Name : LG ENERGY SOLUTION WROCŁAW sp. z o.o.

Address : LG 1A

Kobierzyce Foreign States 55-040

Country : Poland

Chronology :

In 2021 Porsche became aware of a report of a single vehicle battery fire that occurred shortly after charging. Porsche investigated this incident and began obtaining comparable undamaged batteries from the field for analysis. In 2023, Porsche became aware of further instances of battery fires in Taycan vehicles after charging. Therefore, although the root cause analysis was still ongoing, on 6 December 2023 Porsche determined that a safety-related defect exists in the identified vehicles (manufacturer recall identification code APB5). Porsche continued investigating this issue together with the battery cell/module manufacturer, using in particular data analytics and hardware analyses. With this additional investigation and analyses, on 13 March 2024 Porsche determined that a safety-related defect exists in additional vehicles identified via data analytics and hardware analyses. As there are different batches of potentially affected Porsche Taycan vehicles which require different remedies, Porsche decided to conduct two different recalls on 13 March 2024 (manufacturer recall identification code ARA4 and ARA5): ARA4 applies to a vehicle population where Porsche has sufficient vehicle battery data. ARA5 applies to a vehicle population where Porsche does not or not yet have access to sufficient vehicle battery data.

Description of Remedy :

Description of Remedy Program : As an interim remedy, the owner notification letter will advise that affected vehicles should only be charged to a maximum of 80% of the battery capacity.

To determine the necessity for a possible HV battery module replacement, Porsche will obtain additional vehicle battery data (via dealer inspection, unless the customer activates over-the-air access to share sufficient vehicle battery data).

Once obtained, the data will be analyzed. Affected high-voltage battery modules will be replaced.

The owner notification letter will advise that Porsche offers a reimbursement for pre-notification remedies in accordance with 49 CFR §573.13.

How Remedy Component Differs from Recalled Component : The vehicles were identified by data analytics based on latest root cause analyses to determine affected clusters in production. This report will be updated as necessary.

Replacement battery modules will be produced using improved cell production quality, as applicable.

Identify How/When Recall Condition was Corrected in Production : Vehicles produced after March 4, 2024 are not subject to this recall.

Recall Schedule :

Description of Recall Schedule : Owners will be notified within 60 days of the filing of this report.

Planned Dealer Notification Date : MAR 27, 2024 - MAR 27, 2024

Planned Owner Notification Date : MAY 17, 2024 - MAY 17, 2024

* NR - Not Reported