

Part 573 Safety Recall Report

22V-702

Manufacturer Name : Tesla, Inc.

Submission Date : NOV 01, 2022

NHTSA Recall No. : 22V-702

Manufacturer Recall No. : SB-22-70-002



Manufacturer Information :

Manufacturer Name : Tesla, Inc.

Address : 1 Tesla Road
Austin TX 78725

Company phone : 6506815000

Population :

Number of potentially involved : 1,096,762

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2022 Tesla Model S

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The subject population includes certain model year ("MY") 2021-2022 Model S and Model X vehicles, MY 2017-2022 Model 3 vehicles, and MY 2020-2022 Model Y vehicles, that were manufactured for the U.S. market and are subject to Federal Motor Vehicle Safety Standard (FMVSS) 118, Section 5 (automatic reversal systems). Affected vehicles were identified based on vehicle manufacturing records.

Production Dates : JAN 19, 2021 - SEP 16, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 2 : 2021-2022 Tesla Model X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The subject population includes certain model year ("MY") 2021-2022 Model S and Model X vehicles, MY 2017-2022 Model 3 vehicles, and MY 2020-2022 Model Y vehicles, that were manufactured for the U.S. market and are subject to Federal Motor Vehicle Safety Standard (FMVSS) 118, Section 5 (automatic reversal systems). Affected vehicles were identified based on vehicle manufacturing records.

Production Dates : FEB 12, 2021 - SEP 16, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 3 : 2017-2022 Tesla Model 3

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The subject population includes certain model year ("MY") 2021-2022 Model S and Model X vehicles, MY 2017-2022 Model 3 vehicles, and MY 2020-2022 Model Y vehicles, that were manufactured for the U.S. market and are subject to Federal Motor Vehicle Safety Standard (FMVSS) 118, Section 5 (automatic reversal systems). Affected vehicles were identified based on vehicle manufacturing records.

Production Dates : JUL 02, 2017 - SEP 14, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 4 : 2020-2022 Tesla Model Y

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The subject population includes certain model year ("MY") 2021-2022 Model S and Model X vehicles, MY 2017-2022 Model 3 vehicles, and MY 2020-2022 Model Y vehicles, that were manufactured for the U.S. market and are subject to Federal Motor Vehicle Safety Standard (FMVSS) 118, Section 5 (automatic reversal systems). Affected vehicles were identified based on vehicle manufacturing records.

Production Dates : NOV 26, 2019 - SEP 14, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Description of Noncompliance :

Description of the Noncompliance : Affected vehicles may not meet certain automatic window reversal system requirements in FMVSS 118, Section 5 (automatic reversal systems). When closing in circumstances subject to FMVSS 118, Section 5, the window may exert more force than Section 5 permits before retracting. The window may also retract less than the distance required under Section 5.

FMVSS 1 : 118 - Power-operated window systems

FMVSS 2 : NR

Description of the Safety Risk : If a window is closing and detects an obstruction, the condition may increase the risk of a pinching injury to the occupant.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Vehicle Firmware

Component Description : Vehicle Firmware

Component Part Number : N/A

Supplier Identification :

Component Manufacturer

Name : Tesla, Inc.

Address : 1 Tesla Road
Austin Texas 78725

Country : United States

Chronology :

- During conformity of production testing conducted from August 19, 2022, through August 23, 2022, Tesla technicians identified window automatic reversal system performance that had greater than expected variations in response to pinch detection.
- Immediately, on August 23, 2022, Tesla conducted additional compliance tests on multiple samples of each model using various window positions, multiple spring rates and gap designations to address the concern. This testing concluded on September 5, 2022.
- From September 5, 2022, to September 11, 2022, Tesla analyzed and validated test results through log analysis (current draw and encoder count) and confirmation of repeatability within test set-ups and test execution.
- On September 12, 2022, Tesla determined that the pinch detection and retraction performance in the test results exceeded the requirements of FMVSS 118, Section 5 (automatic reversal systems), depending on spring force and rod configuration. Accordingly, Tesla made a determination to issue a voluntary recall.
- Beginning on September 13, 2022, vehicles in production and in pre-delivery containment received a firmware release that sets power operated window operation to the requirements specified in FMVSS 118, Section 4.
- As of September 16, 2022, Tesla is not aware of any warranty claims, field reports, crashes, injuries, or deaths related to this condition.

Description of Remedy :

Description of Remedy Program :	<p>At no cost to the customer, Tesla will deploy an over-the-air (“OTA”) firmware update to affected vehicles that enhances the calibration of the vehicle’s automatic window reversal system behavior to ensure compliance with FMVSS 118, Section 5, in all loading conditions.</p> <p>The remedy is not immediately available. In the meantime, pursuant to 49 U.S.C. Section 30120(i)(3)(C), rental companies may request to limit the power operated windows of affected vehicles in their fleet to the requirements specified in FMVSS 118, Section 4, eliminating the risk posed by this noncompliance. When the remedy becomes available, Tesla will deploy it OTA to all customers, including rental companies.</p> <p>Tesla does not plan to include a statement in the Part 577 owner notification about pre-notice reimbursement because there are no out of warranty repairs related to this condition.</p>
How Remedy Component Differs from Recalled Component :	<p>The remedy OTA firmware update ensures compliance of the vehicle’s automatic window reversal system to FMVSS 118, Section 5, whereas a firmware release without the remedy does not.</p>
Identify How/When Recall Condition was Corrected in Production :	<p>Beginning on September 13, 2022, vehicles in production and in pre-delivery containment received a firmware release that sets power operated window operation to the requirements specified in FMVSS 118, Section 4, rendering Section 5 not applicable.</p>

Recall Schedule :

Description of Recall Schedule :	<p>All Tesla stores and service centers will be notified about this recall on or shortly after September 21, 2022. Owner notification letters will be mailed in accordance with 49 C.F.R. § 577.7.</p>
Planned Dealer Notification Date :	<p>SEP 21, 2022 - SEP 21, 2022</p>
Planned Owner Notification Date :	<p>NOV 15, 2022 - NOV 15, 2022</p>

* NR - Not Reported