

Part 573 Safety Recall Report

22V-045

Manufacturer Name : Tesla, Inc.**Submission Date :** FEB 01, 2022**NHTSA Recall No. :** 22V-045**Manufacturer Recall No. :** SB-22-00-002**Manufacturer Information :**

Manufacturer Name : Tesla, Inc.

Address : 13101 Tesla Road
Austin TX 78725

Company phone : 6506815000

Population :

Number of potentially involved : 817,143

Estimated percentage with defect : NR

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, and all Model 3 and Model Y vehicles.

Production Dates : JAN 04, 2021 - JAN 30, 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, and all Model 3 and Model Y vehicles.

Production Dates : FEB 02, 2021 - JAN 31, 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, and all Model 3 and Model Y vehicles.

Production Dates : JUL 02, 2017 - JAN 29, 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, and all Model 3 and Model Y vehicles.

Production Dates : OCT 09, 2019 - JAN 30, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Noncompliance :

Description of the Noncompliance : FMVSS 208, S7.3 (a)-(1), requires the audible seat belt reminder chime to activate upon vehicle start (i.e., driver presses the brake pedal after entering the vehicle) if the driver seat belt is not detected as buckled. On certain MY 2021-2022 Model S and Model X vehicles and on all MY Model 3 and Model Y vehicles, a software error may prevent the chime from activating upon vehicle start under certain circumstances. This condition is limited to circumstances where the chime was interrupted in the preceding drive cycle and the seat belt was not buckled subsequent to that interruption (e.g., the driver exited the vehicle in the preceding drive cycle while the chime was active and later returned to the vehicle, creating a new drive cycle).

This condition does not affect the audible seat belt reminder chime from activating when the vehicle exceeds 22 km/h and the driver seat belt is not detected as buckled. The condition also does not affect the reliability and accuracy of the accompanying visual seat belt reminder at any point.

FMVSS 1 : 208 - Occupant crash protection

FMVSS 2 : NR

Description of the Safety Risk : If the audible seat belt reminder chime does not activate at the start of a new drive cycle and the driver does not notice the accompanying visual seat belt telltale, the driver may not be reminded to buckle their seat belt and may begin operating the vehicle in an unbuckled state, which could increase the risk of injury. Tesla is not aware of any injuries or fatalities related to this condition.

Note that when the vehicle exceeds 22 km/h and the driver seat belt is not detected as buckled, the audible seat belt reminder chime will activate and remind the driver to buckle their seatbelt.

Description of the Cause : When the driver starts the vehicle without buckling their seat belt, software monitors the current state and warns the driver to buckle their seat belt, and records that it has warned the driver. However, if the drive cycle state changes (e.g., driver exits the vehicle) during this reminder, the software erroneously stays in the state where it has already warned the driver, and does not reset its state to prepare for the next warning. Therefore, the next time the vehicle is

started without the driver buckling their seat belt first, the driver is not warned by the chime, but instead only receives the accompanying visual telltale.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Firmware Rel. Before 2022.4.5 exc. 2021.43.101.1

Component Description : NR

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Tesla

Address : 13101 Tesla Road
Austin Texas 78725

Country : United States

Chronology :

- On January 6, 2022, the South Korea Automobile Testing & Research Institute (KATRI) brought the condition and limited circumstances to Tesla's attention.
- From January 10, 2022 to January 22, 2022, the Tesla vehicle software and homologation teams investigated the condition and scope of vehicles that were potentially impacted by it.
- On January 25, 2022, Tesla reviewed the investigative findings and determined that the condition is a noncompliance. A recall determination was voluntarily made the same day.
- As of January 31, 2022, Tesla is not aware of any warranty claims, field reports, crashes, injuries or fatalities related to the condition.

Description of Remedy :

Description of Remedy Program : A firmware release will correct the software error, so that the audible seat belt reminder chime will reset if it is interrupted while chiming. Firmware release 2021.43.101.1, which includes this remedy, was introduced in Model 3 and Model Y production on January 27, 2022, and in Model S and Model X production on January 28, 2022. Separately, firmware release 2022.4.5, which also includes this remedy, will deploy over-the-air (“OTA”) to delivered vehicles in early February 2022. No further action is necessary from owners whose vehicles are equipped with firmware release 2021.43.101.1 or 2022.4.5 or a later release. New vehicles will not be delivered to customers without 2021.43.101.1 or 2022.4.5 or a later release.

Tesla does not plan to include a statement in the Part 577 owner notification about pre-notice reimbursement to owners because there is no paid repair relating to the underlying condition and owners will receive the remedy free of charge with an OTA firmware release.

How Remedy Component Differs from Recalled Component : Firmware release 2021.43.101.1 or 2022.4.5 or a later release will correct the software error, so that the audible seat belt reminder chime will reset if it is interrupted while chiming.

Identify How/When Recall Condition was Corrected in Production : Firmware release 2021.43.101.1, which includes the remedy, was introduced in Model 3 and Model Y production on January 27, 2022, and in Model S and Model X production on January 28, 2022.

Recall Schedule :

Description of Recall Schedule : All Tesla stores and service centers will be notified on or shortly after February 4, 2022. Owner notification letters will be mailed in accordance with 49 C.F.R. § 577.7.

Planned Dealer Notification Date : FEB 04, 2022 - FEB 04, 2022

Planned Owner Notification Date : APR 01, 2022 - APR 01, 2022

* NR - Not Reported