

# Part 573 Safety Recall Report

# 22V-063

**Manufacturer Name :** Tesla, Inc.**Submission Date :** FEB 04, 2022**NHTSA Recall No. :** 22V-063**Manufacturer Recall No. :** SB-22-00-003**Manufacturer Information :**

Manufacturer Name : Tesla, Inc.

Address : 13101 Tesla Road  
Austin TX 78725

Company phone : 6506815000

**Population :**

Number of potentially involved : 578,607

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2020-2022 Tesla Model S

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The subject population includes certain model year ("MY") 2020-22 Model S, Model X, and Model Y vehicles and certain MY 2017-22 Model 3 vehicles built or retrofitted with pedestrian warning system and operating or may operate firmware release 2020.48.25 and later releases, as determined by a review of manufacturing, vehicle configuration, and firmware release records.

Production Dates : AUG 28, 2020 - FEB 03, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2020-2022 Tesla Model X

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** The subject population includes certain model year ("MY") 2020-22 Model S, Model X, and Model Y vehicles and certain MY 2017-22 Model 3 vehicles built or retrofitted with pedestrian warning system and operating or may operate firmware release 2020.48.25 and later releases, as determined by a review of manufacturing, vehicle configuration, and firmware release records.

Production Dates : AUG 28, 2020 - FEB 03, 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") 2020-22 Model S, Model X, and Model Y vehicles and certain MY 2017-22 Model 3 vehicles built or retrofitted with pedestrian warning system and operating or may operate firmware release 2020.48.25 and later releases, as determined by a review of manufacturing, vehicle configuration, and firmware release records.

**Production Dates :** DEC 27, 2017 - FEB 03, 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") 2020-22 Model S, Model X, and Model Y vehicles and certain MY 2017-22 Model 3 vehicles built or retrofitted with pedestrian warning system and operating or may operate firmware release 2020.48.25 and later releases, as determined by a review of manufacturing, vehicle configuration, and firmware release records.

**Production Dates :** NOV 26, 2019 - FEB 03, 2022

**VIN Range 1 : Begin :**

NR

**End :** NR

Not sequential

## Description of Noncompliance :

**Description of the Noncompliance :** FMVSS 141 establishes performance requirements for pedestrian alert sounds for electric and hybrid vehicles. The standard also prohibits manufacturers from altering or modifying the sound emitting capability of the pedestrian warning system ("PWS"), through which the pedestrian alert sounds emit. On affected vehicles equipped with a PWS and operating firmware release 2020.48.25 and later releases, the Boombox functionality allows a customer to play preset or custom sounds through the PWS external speaker when the vehicle is parked or in motion. While Boombox and the pedestrian alert sound are mutually exclusive sounds, sounds emitted using Boombox could be construed to obscure or prevent the PWS from complying with FMVSS 141 when the vehicle is in motion.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** While Boombox can enhance the conspicuity of the vehicle to pedestrians, a vehicle that uses Boombox when in motion may cause the PWS to be noncompliant with FMVSS 141, which could increase the risk of a collision. Tesla is not aware of any crashes, injuries or fatalities related to this

Description of the Cause : condition.  
On affected vehicles equipped with a PWS and operating firmware release 2020.48.25 and later releases, the Boombox functionality allows a customer to play preset or custom sounds when the vehicle is in motion through the PWS external speaker.

Identification of Any Warning NR  
that can Occur :

### Involved Components :

Component Name 1 : Vehicle Firmware

Component Description : FW Rel. 2020.44.25 and later until 2022.8, exc. 2021.43.101.2

Component Part Number : NR

### Supplier Identification :

#### Component Manufacturer

Name : Tesla, Inc.

Address : 13101 Tesla Road  
Austin Texas 78725

Country : United States

### Chronology :

- On or about December 24, 2020, Tesla began deploying firmware release 2020.48.25 over-the-air (“OTA”) to affected vehicles. The release introduced Boombox.
- On January 15, 2021, NHTSA issued an information request (OA-141-210104) to investigate Boombox’s compliance with FMVSS 141.
- On February 5, 2021, Tesla responded to the information request, explaining feature performance and demonstrating its compliance with FMVSS 141.
- Over the next several months, Tesla responded to additional information requests from NHTSA and participated in a number of virtual meetings with the Agency.
- On September 9, 2021, NHTSA upgraded the investigation to a Preliminary Evaluation (PE-141-210104) and requested additional information from Tesla relating to Boombox’s compliance with FMVSS 141.

- On October 18, 2021, Tesla responded to NHTSA's request, further demonstrating and defending the tests performed and rationale used to determine Boombox's compliance with FMVSS 141.
- On January 27 and 28, 2022, NHTSA and Tesla further discussed Boombox's compliance with FMVSS 141.
- On January 29, 2022, Tesla decided to voluntarily recall and disable Boombox functionality in Drive, Neutral and Reverse modes with an OTA firmware update.

## Description of Remedy :

**Description of Remedy Program :** Tesla will deploy an OTA firmware release to affected vehicles that will disable the Boombox functionality when the vehicle is in Drive, Neutral and Reverse modes. Firmware release 2021.43.101.2, which includes this remedy, was introduced in production on February 3, 2022. Firmware release 2022.8, which also includes this remedy, will deploy OTA to delivered vehicles in February 2022. No further action is necessary from owners whose vehicles are equipped with firmware release 2021.43.101.2 or 2022.8 or a later release. Undelivered vehicles will not be delivered to customers without 2021.43.101.2 or 2022.8 or a later release installed.

Tesla does not plan to include a statement in the Part 577 owner notification about pre-notice reimbursement 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 releases 2020.48.25 and later releases, up to the firmware releases that include the remedy, allow Boombox functionality when the vehicle is in Drive, Neutral and Reverse modes, whereas firmware releases 2021.43.101.2 or 2022.8 or a later release (i.e., firmware release that include the remedy) disable Boombox functionality in Drive, Neutral and Reverse modes.

**Identify How/When Recall Condition was Corrected in Production :** Firmware release 2021.43.101.2, which includes the remedy, was introduced in production on February 3, 2022.

## Recall Schedule :

**Description of Recall Schedule :** All Tesla stores and service centers will be notified on or shortly after February 7, 2022. Owner notification letters will be mailed in accordance with 49 C.F.R. § 577.7.

**Planned Dealer Notification Date :** FEB 07, 2022 - FEB 07, 2022

**Planned Owner Notification Date :** APR 05, 2022 - APR 05, 2022

\* NR - Not Reported