# Part 573 Safety Recall Report

Manufacturer Name :Tesla, Inc.Submission Date :DEC 15, 2021NHTSA Recall No. :21V-846Manufacturer Recall No. :SB-21-00-004

#### Manufacturer Information :

Manufacturer Name : Tesla, Inc. Address : 3500 Deer Creek Road Palo Alto CA 94304 Company phone : 650-413-4000

### Vehicle Information :

Vehicle 1:	2017-20217	Fesla Model S			
Vehicle Type :					
Body Style :					
Power Train :	NR				
Descriptive Information :	The subject population includes certain Model S, X, 3 and Y vehicles operating firmware release 2021.36.5.2, determined by a review of firmware release records.				
<b>Production Dates :</b>	AUG 24, 201	7 - OCT 06, 202	21		
VIN Range 1:	Begin :	NR	End :	NR	□ Not sequential
Vehicle 2:	2017-2021 7	Fesla Model X			
Vehicle Type :					
Body Style :					
Body Style : Power Train :					
Power Train :	NR The subject j				3 and Y vehicles operating ew of firmware release records.
Power Train :	NR The subject <sub>J</sub> firmware rel	lease 2021.36.5	5.2, determiı		
Power Train : Descriptive Information :	NR The subject p firmware rel AUG 23, 201	lease 2021.36.5	5.2, determiı	ned by a revie	
Power Train : Descriptive Information : Production Dates : VIN Range 1 :	NR The subject p firmware rel AUG 23, 201	lease 2021.36.5 7 - DEC 25, 202 NR	5.2, determiı 20	ned by a revie	ew of firmware release records.
Power Train : Descriptive Information : Production Dates : VIN Range 1 :	NR The subject p firmware rel AUG 23, 201 Begin : 2017-2021 7	lease 2021.36.5 7 - DEC 25, 202 NR	5.2, determiı 20	ned by a revie	ew of firmware release records.
Power Train : Descriptive Information : Production Dates : VIN Range 1 : Vehicle 3 :	NR The subject p firmware rel AUG 23, 201 Begin : 2017-2021 7	lease 2021.36.5 7 - DEC 25, 202 NR	5.2, determiı 20	ned by a revie	ew of firmware release records.
Power Train : Descriptive Information : Production Dates : VIN Range 1 : Vehicle 3 : Vehicle Type :	NR The subject p firmware rel AUG 23, 201 Begin : 2017-2021 T	lease 2021.36.5 7 - DEC 25, 202 NR	5.2, determiı 20	ned by a revie	ew of firmware release records.
Power Train : Descriptive Information : Production Dates : VIN Range 1 : Vehicle 3 : Vehicle Type : Body Style : Power Train :	NR The subject p firmware rel AUG 23, 201 Begin : 2017-2021 T NR The subject p	lease 2021.36.5 7 - DEC 25, 202 NR Fesla Model 3 population incl	5.2, determin 20 End :	ned by a revie NR	ew of firmware release records.
Power Train : Descriptive Information : Production Dates : VIN Range 1 : Vehicle 3 : Vehicle Type : Body Style : Power Train :	NR The subject p firmware rel AUG 23, 201 Begin : 2017-2021 T NR The subject p firmware rel	lease 2021.36.5 7 - DEC 25, 202 NR Fesla Model 3 population incl	5.2, determin 20 End : udes certair 5.2, determin	ned by a revie NR	ew of firmware release records.



**Population :** 



Number of potentially involved : 11,704 Estimated percentage with defect : 100 %

21V-846

# Part 573 Safety Recall Report

Vehicle 4: 20	20-2021 Tesla Model Y		
Vehicle Type :			
Body Style :			
Power Train : NH Descriptive Information : Th fir	e subject population in		and Y vehicles operating v of firmware release records.
	N 29, 2020 - SEP 02, 202		
VIN Range 1 : Beg	in: NR	End: NR	☐ Not sequential
escription of Defect :			
Description of the Defect :		ation error may, under a cer -collision warnings (FCW) a	tain sequence of events, nd/or automatic emergency
FMVSS 1 :			
FMVSS 2 :	NR		
Description of the Safety Risk :	Ũ	ing vehicle may increase. W	0
Description of the Cause :	which introduced a sol board chips; specifical "Summon Standby Mod 'sleep' state. This comm networks that operate inconsistency can prod	ftware communication disco ly, when the vehicle is wakin de," a mode where one of th nunication disconnect can r	esult in the video neural sistently than expected. The y detections when other
Identification of Any Warning that can Occur :	There is a warning chi when the false-positive	0 0	splayed in the vehicle display
nvolved Components :			
Component Name 1 : V	/ehicle Software Version	n 2021.36.5.2	
Component Description : M	J/A		
Component Part Number : M	J/A		

The information contained in this report was submitted pursuant to 49 CFR §573

#### **Component Manufacturer**

Name :Tesla, Inc.Address :13101 Harold Green Road<br/>Austin Texas 78725Country :United States

#### Chronology :

- Late Saturday, October 23, 2021, Tesla released 2021.36.5.2 to vehicles in the limited early access Full-Self Driving (Beta) population.

- The next morning, October 24, 2021, Tesla began to receive reports of false FCW and AEB events from customers. In a matter of hours, we investigated the reports and took actions to mitigate any potential safety risk. This included cancelling 2021.36.5.2 on vehicles that had not installed it, disabling FCW and AEB on affected vehicles, and/or reverting software to the nearest available version. Contemporaneously, we worked on identifying the root cause and developing a corrective OTA solution.

- By the evening on the same day, we deterministically reproduced the condition, identified the root cause, and developed software release 2021.36.5.3 as a correction solution. Global engineering and quality assurance teams performed testing and validation on the new release throughout the night and into the next morning, and were successfully unable to produce the condition.

- On Monday morning, October 25, 2021, after completing validation, we began deploying 2021.36.5.3 OTA to the subject population and re-enabled FCW and AEB features on vehicles with 2021.36.5.3 installed.

- On Tuesday, October 26, 2021, an OTA recall determination was voluntarily made.

- As of October 27, 2021, Tesla received 39 customer reports (received between October 24, 2021 and October 25, 2021) that are related to or may relate to this topic from the owners of vehicles subject to this issue. Tesla is not aware of any warranty claims, crashes, injuries or deaths related to this topic.

### **Description of Remedy :**

Description of Remedy Program :	Tesla quickly remedied the condition OTA with firmware release 2021.36.5.3, which was released to the subject population on October 25, 2021. The OTA remedy will carry forward in firmware release 2021.36.5.3 and later. As of November 12, 2021, 100% of the subject population installed firmware release 2021.36.5.3 or a later release. No further action is necessary from owners whose vehicles are equipped with firmware release 2021.36.5.3 or a later release.			
	Tesla does not plan to include a statement in the Part 577 owner notification about pre-notice reimbursement to owners since all of the involved vehicles already received repair free of charge.			
How Remedy Component Differs from Recalled Component :	Firmware release 2021.36.5.3 corrects the communication disconnect between the two chips.			
Identify How/When Recall Condition was Corrected in Production :	$\rm N/A.$ Firmware release 2021.36.5.2 was not installed on or deployed to new vehicles in production.			

## **Recall Schedule :**

Description of Recall Schedule :	All Tesla stores and service centers will be notified on or shortly after
	November 1, 2021. Owner notification letters will be mailed in
	accordance with 49 C.F.R. § 577.7.
Planned Dealer Notification Date :	NOV 01, 2021 - NOV 01, 2021
Planned Owner Notification Date :	DEC 28, 2021 - DEC 28, 2021

\* NR - Not Reported