

## Safety Issue Type: Investigations

June 08 2022 NHTSA Action Number: EA22002 **OPEN INVESTIGATION**

### Autopilot & First Responder Scenes

NHTSA Action Number EA22002

Components ELECTRICAL SYSTEM

Opened From June 08 2022 - Present

#### Summary

On August 13, 2021, NHTSA's Office of Defects Investigation (ODI) opened a Preliminary Evaluation (PE21-020) to assess the performance of Tesla's Autopilot system (a system characterized by Tesla as an SAE Level 2 driving automation system designed to support and assist the driver in performing the driving task) available in Tesla vehicles. The investigation opening was motivated by an accumulation of crashes in which Tesla vehicles, operating with Autopilot engaged, struck stationary in-road or roadside first responder vehicles tending to pre-existing collision scenes. Upon opening the investigation, NHTSA indicated that the PE would also evaluate additional similar circumstance crashes of Tesla vehicles operating with Autopilot engaged, as well as assess the technologies and methods used to monitor, assist, and enforce the driver's engagement with the dynamic driving task during Autopilot operation.

PE21-020 is upgraded to an Engineering Analysis (EA) to extend the existing crash analysis, evaluate additional data sets, perform vehicle evaluations, and to explore the degree to which Autopilot and associated Tesla systems may exacerbate human factors or behavioral safety risks by undermining the effectiveness of the driver's supervision. In doing so, NHTSA plans to continue its assessment of vehicle control authority, driver engagement technologies, and related human factors considerations.

The attached Detailed Summary further describes NHTSA's review to date and the basis for upgrade to an EA.

### Affected Products (21)

#### Vehicle

MAKE	MODEL	YEAR
TESLA	MODEL 3	2018-2021
TESLA	MODEL S	2014-2021
TESLA	MODEL X	2015-2021
TESLA	MODEL Y	2020-2021

### Associated Documents (13)

88794 - EA22-002 MEMO 9-19-2022 TO THE FILE, MEMO - EA22-002 INCOMPLETE PUBLIC FILE POSTING

INME-EA22002-88794P.pdf 0.144KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-88794P.pdf>

90988 - CONFIDENTIALITY - EA22002 - 071923 - TESLA - EA22002 CBI IR RESPONSE MEMO TO PUBLIC 7.19.23

**INME-EA22002-90988.pdf** 0.105KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-90988.pdf>

91174 - EA22-002 COPY IN PE21-020 TESLA - LETTER TO TESLA FROM OCC - 07262023- TESLA DMS SPECIAL ORDER FINAL SIGNED

**INLM-EA22002-91174P.pdf** 0.261KB

<https://static.nhtsa.gov/odi/inv/2022/INLM-EA22002-91174P.pdf>

89455 - ODI MEMO 10-12-2022 TO FILE INFORMATION SEND TO OCC

**INME-EA22002-89455P.pdf** 0.143KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-89455P.pdf>

87973 - MEMO 6-15-2021, TO THE FILE CONFIDENTIAL SEND TO OCC

**INME-EA22002-87973P.pdf** 0.099KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-87973P.pdf>

88513 - ODI 8/18/2022 IR LETTER TO TESLA

**INIM-EA22002-88513P.pdf** 0.288KB

<https://static.nhtsa.gov/odi/inv/2022/INIM-EA22002-88513P.pdf>

91264 - MEMO TO THE FILE - 08-25-2023 - EA22-002 REQUEST FOR CONFIDENTIALITY - CBI IR RESPONSE OCC FOR SPECIAL ORDERS

**INME-EA22002-91264P.pdf** 0.105KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-91264P.pdf>

90927 - ODI 7/6/2023 IR LETTER TO TESLA -- UPDATED

**INIM-EA22002-90927P.pdf** 0.207KB

<https://static.nhtsa.gov/odi/inv/2022/INIM-EA22002-90927P.pdf>

88513 - ODI 8/18/2022 IR LETTER TO TESLA

**INIM-EA22002-88513.pdf** 0.288KB

<https://static.nhtsa.gov/odi/inv/2022/INIM-EA22002-88513.pdf>

87961 - TESLA INFORMATION REQUEST LETTER 04-19-2021

**INIM-EA22002-87961P.pdf** 1.871KB

<https://static.nhtsa.gov/odi/inv/2022/INIM-EA22002-87961P.pdf>

OPENING RESUME APPROVED

**INOA-EA22002-3184.PDF** 0.985KB

<https://static.nhtsa.gov/odi/inv/2022/INOA-EA22002-3184.PDF>

89413 - MEMO 10-12-2022 TO THE FILE, MEMO - EA22-002 REQUEST FOR CONFIDENTIALITY.

**INME-EA22002-89413P.pdf** 0.143KB

<https://static.nhtsa.gov/odi/inv/2022/INME-EA22002-89413P.pdf>

87961 - TESLA INFORMATION REQUEST LETTER 04-19-2021

**INIM-EA22002-87961.pdf** 4.222KB

<https://static.nhtsa.gov/odi/inv/2022/INIM-EA22002-87961.pdf>

## Associated Recalls (2)

**Subject** Full Self-Driving Software May Cause Crash

**NHTSA Campaign Number** 23V085000

**Date received** February 15 2023

**Summary**

Tesla, Inc. (Tesla) is recalling certain 2016-2023 Model S, Model X, 2017-2023 Model 3, and 2020-2023 Model Y vehicles equipped with Full Self-Driving Beta (FSD Beta) software or pending installation. The FSD Beta system may allow the vehicle to act unsafe around intersections, such as traveling straight through an intersection while in a turn-only lane, entering a stop sign-controlled intersection without coming to a complete stop, or proceeding into an intersection during a steady yellow traffic signal without due caution. In addition, the system may respond insufficiently to changes in posted speed limits or not adequately account for the driver's adjustment of the vehicle's speed to exceed posted speed limits.

**Subject** Autopilot Controls Insufficient to Prevent Misuse

**NHTSA Campaign Number** 23V838000

**Date received** December 12 2023

**Summary**

Tesla, Inc. (Tesla) is recalling 2012-2023 Model S, 2016-2023 Model X, 2017-2023 Model 3, and 2020-2023 Model Y vehicles equipped with all versions of Autosteer leading up to the version(s) that contains the recall remedy. In certain circumstances when Autosteer is engaged, the prominence and scope of the feature's controls may not be sufficient to prevent driver misuse of the SAE Level 2 advanced driver-assistance feature.