

Tesla's Autopilot driver-assist system gets closer look as US seeks details on recent changes

July 6 2023, by Tom Krisher



Tesla vehicles charge at a station in Emeryville, Calif., Aug. 10, 2022. U.S. automobile safety regulators are zeroing in on changes that Tesla has made to its Autopilot partially automated driving system, including how it makes sure drivers pay attention and how it detects and responds to objects. Credit: AP Photo/Godofredo A. Vásquez, File

U.S. automobile safety regulators are zeroing in on changes that Tesla has made to its Autopilot partially automated driving system, including how it makes sure drivers pay attention and how it detects and responds to objects.

The National Highway Traffic Safety Administration asked for details of changes made to all versions of the system including dates and detailed descriptions, according to a post on its site Thursday.

The request is part of a larger investigation into why Teslas operating on Autopilot have [struck emergency vehicles](#) that are stopped along highways while they are responding to other incidents. It covers all versions of automated driving system including "Full Self-Driving," which is being tested on [public roads](#) by Tesla owners.

The agency has been investigating crashes involving Teslas using the system since August of 2021. Investigators have sent teams to probe more than 30 crashes since 2016 that have caused at least 14 deaths.

In a [letter dated July 3](#) and posted on the agency's website Thursday, NHTSA asks Tesla to describe all changes to the systems in the "design, material composition, manufacture, [quality control](#), supply, function, or installation of the subject system, from the start of production to date."

Tesla must respond to the request by July 19, or it could face civil penalties, the letter states. It asks the electric vehicle maker to update a previous response dated Sept. 19 of last year.

A message was left early Thursday seeking comment from Tesla. The company says on its website that neither Autopilot nor "Full Self-Driving" can drive themselves and that drivers must be ready to intervene at all times.

The letter also asks for which Tesla vehicles had cameras installed in the cabin to monitor drivers, and whether the system uses "Tesla Vision" which relies only on cameras to view the road and does not use radar.

NHTSA's request includes changes that Tesla made as part of a February recall of "Full Self-Driving" software. NHTSA pressured Tesla into [recalling nearly 363,000 vehicles](#) with the software because the system can break traffic laws. The problem was to be fixed with an online software update.

NHTSA said in recall documents that the system can make unsafe actions such as traveling straight through an intersection from a turn-only lane, going through a yellow traffic light without proper caution or failing to respond to speed limit changes.

The documents said that Tesla does not agree with the agency's analysis of the problem. The company was to fix the problems with an online software update.

Tesla CEO Elon Musk has said he [expects to have fully autonomous vehicles this year](#), a pledge he has made for several years. "The trend is very clearly toward full self-driving," Musk said in April. "And I hesitate to say this, but I think we'll do it this year."

The system is being tested on public roads by as many as 400,000 Tesla owners.

NHTSA also has opened investigations during the past three years into Teslas braking suddenly for no reason, suspension problems and other issues.

© 2023 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Tesla's Autopilot driver-assist system gets closer look as US seeks details on recent changes (2023, July 6) retrieved 27 April 2024 from <https://techxplore.com/news/2023-07-tesla-autopilot-driver-assist-closer.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.