### Manufacturer Information:

<table>
<thead>
<tr>
<th>Manufacturer Name</th>
<th>Tesla, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>3500 Deer Creek Road Palo Alto CA 94304</td>
</tr>
<tr>
<td>Company phone</td>
<td>650-413-4000</td>
</tr>
</tbody>
</table>

### Population:

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

### Vehicle Information:

#### Vehicle 1: 2017-2021 Tesla Model S

- **Vehicle Type**: NR
- **Body Style**: NR
- **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.
- **Production Dates**: AUG 24, 2017 - OCT 06, 2021
- **VIN Range 1**: Begin: NR End: NR

#### Vehicle 2: 2017-2021 Tesla Model X

- **Vehicle Type**: NR
- **Body Style**: NR
- **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.
- **Production Dates**: AUG 23, 2017 - DEC 25, 2020
- **VIN Range 1**: Begin: NR End: NR

#### Vehicle 3: 2017-2021 Tesla Model 3

- **Vehicle Type**: NR
- **Body Style**: NR
- **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.
- **Production Dates**: JUL 25, 2017 - OCT 07, 2021
- **VIN Range 1**: Begin: NR End: NR

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| Vehicle 4: | 2020-2021 Tesla Model Y |
| 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.

Production Dates: JAN 29, 2020 - SEP 02, 2021

| VIN Range 1: Begin: | NR | End: | NR |

Description of Defect:

Description of the Defect: A software communication error may, under a certain sequence of events, result in false forward-collision warnings (FCW) and/or automatic emergency brake (AEB) events.

Description of the Safety Risk: If the AEB system unexpectedly activates while driving, the risk of a rear-end collision from a following vehicle may increase. We are not aware of any crashes or injuries related to this condition.

Description of the Cause: On October 23, 2021, Tesla released firmware 2021.36.5.2 over-the-air (OTA), which introduced a software communication disconnect between the two on-board chips; specifically, when the vehicle is waking up from “Sentry Mode” or “Summon Standby Mode,” a mode where one of the chips is in a low-power ‘sleep’ state. This communication disconnect can result in the video neural networks that operate on that chip to run less consistently than expected. The inconsistency can produce negative object velocity detections when other vehicles are present, which in turn can lead to false FCW and AEB events.

Identification of Any Warning that can Occur: There is a warning chime and warning message displayed in the vehicle display when the false-positive braking occurs.

Involved Components:

| Component Name 1: | NR |
| Component Description: | NR |
| Component Part Number: | NR |

Supplier Identification:
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.

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 this filing, more than 99.8% of the subject population (i.e., all vehicles but for 17) 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.

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:
N/A. Firmware release 2021.36.5.2 was not installed on or deployed to new vehicles in production.
Recall Schedule:

<table>
<thead>
<tr>
<th>Description of Recall Schedule</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned Dealer Notification Date</td>
<td>NOV 01, 2021 - NOV 01, 2021</td>
</tr>
<tr>
<td>Planned Owner Notification Date</td>
<td>DEC 28, 2021 - DEC 28, 2021</td>
</tr>
</tbody>
</table>

* NR - Not Reported

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