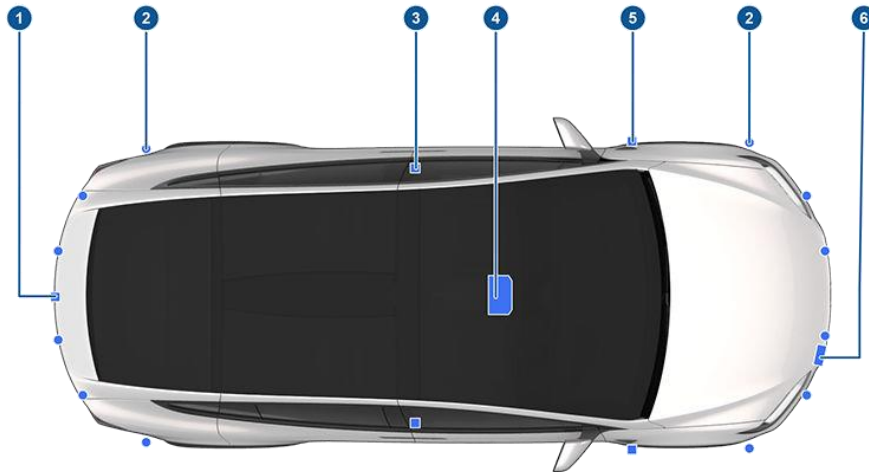




How It Works

Your Model X includes the following Autopilot components that actively monitor the surrounding roadway:



1. A camera is mounted above the rear license plate.
2. Ultrasonic sensors are located in the front and rear bumpers.
3. A camera is mounted in each door pillar.
4. Three cameras are mounted to the windshield above the rear view mirror.
5. A camera is mounted to each front fender.
6. Radar is mounted behind the front bumper.

Model X is also equipped with high precision electronically-assisted braking and steering systems.

NOTE: Ensure all cameras and sensors are clean before each drive. See [Cleaning Cameras and Sensors on page 102](#) for more information. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.

Features

NOTE: Depending on market region, vehicle configuration, options purchased, and software version, your vehicle may not be equipped with all Autopilot features listed below, or a feature may not operate exactly as described.

These Autopilot features are designed to increase your safety:

- Lane Assist (see [Lane Assist on page 136](#))
- Collision Avoidance Assist (see [Collision Avoidance Assist on page 139](#))
- Speed Assist (see [Speed Assist on page 143](#))
- Auto High Beam (see [High Beam Headlights on page 64](#))

These Autopilot convenience features are designed to reduce driver workload:

- Traffic-Aware Cruise Control (see [Traffic-Aware Cruise Control on page 103](#))
- Autosteer (see [Autosteer on page 109](#))
- Auto Lane Change (see [Auto Lane Change on page 111](#))
- Autopark (see [Autopark on page 126](#))
- Summon (see [Summon on page 128](#))
- Smart Summon ([Smart Summon on page 132](#))
- Navigate on Autopilot (see [Navigate on Autopilot on page 114](#))



- Stop Light and Stop Sign Warning (see [Stop Light and Stop Sign Warning on page 112](#))
- Traffic Light and Stop Sign Control (see [Traffic Light and Stop Sign Control on page 117](#))

You can enable/disable some of these features and in some cases, control how they work. To access settings, touch Controls > Autopilot.

Limitations

Traffic-Aware Cruise Control is particularly unlikely to operate as intended in the following types of situations:

- The road has sharp curves.
- Visibility is poor (due to heavy rain, snow, fog, etc.).
- Bright light (such as from oncoming headlights or direct sunlight) is interfering with the view of the camera(s).
- The radar sensor is obstructed (dirty, covered, etc.).
- The windshield is obstructing the view of the camera(s) (fogged over, dirty, covered by a sticker, etc.).



WARNING: The list above does not represent an exhaustive list of situations that may interfere with proper operation of Traffic-Aware Cruise Control.



ALL REGIONS - FCC and IC Certification

Component	Manufacturer	Model	Operating Frequency (MHz)	FCC ID	IC
Radar	Tesla	1541584	76000-77000	2AEIM-1541584	20098-1541584

The device listed above comply with Part 15 of the FCC rules and Industry Canada's license-exempt RSS Standard(s) and EU Directive 2014/53/EU.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Tesla could void your authority to operate the equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'Appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement

The product complies with the FCC/IC RF Exposure for Low Power Consumer Wireless Power Transfer. The RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The furthest RF exposure that compliance was demonstrated at 20cm or greater separation from the user body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.

Déclaration d'exposition aux radiations:

Le produit est conforme à l'exposition RF IC pour le transfert de puissance sans fil de consommateurs de faible puissance. La limite d'exposition RF fixée pour un environnement non contrôlé est sans danger pour le fonctionnement prévu tel que décrit dans ce manuel.

L'exposition RF supplémentaire que la conformité a été démontrée à 20cm et plus de séparation du corps de.

ALL REGIONS - Radio Frequency Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician to help.



 **CAUTION:** This equipment and its antennas must not be co-located or operated with another antenna or transmitter.

ALL REGIONS - RF Modules

The devices described below have been evaluated against the essential requirements of the 2014/53/EU and 2011/65/EU Directive.

Description	Frequency Band	Power Level	Antenna Location
Radar	76-77 GHz	4.16W Peak EIRP 177.4mW avg EIRP	Behind front bumper

NORTH AMERICA ONLY - Canada

CAN ICES-003 (B)/NMB-003(B)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.

Déclaration d'exposition aux radiations:

Le produit est conforme à l'exposition RF IC pour le transfert de puissance sans fil de consommateurs de faible puissance. La limite d'exposition RF fixée pour un environnement non contrôlé est sans danger pour le fonctionnement prévu tel que décrit dans ce manuel. L'exposition RF supplémentaire que la conformité a été démontrée à 20cm et plus de séparation du corps de l'utilisateur ou de mettre l'appareil à la puissance de sortie inférieure si une telle fonction est disponible.

MEXICO ONLY - Mexico

IFT-008-SCFI-2015 / NOM-208-SCFI-2016

La operación de este equipo está sujeta a las siguientes dos condiciones:

1. Es posible que este equipo o dispositivo no cause interferencia perjudicial.
2. Este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



AUS/NZ ONLY - Device Approval - Australia, New Zealand



ALL REGIONS EXCEPT NORTH AMERICA AND CHINA – EU



Your vehicle has different types of radio equipment. The manufacturers of the radio equipment declare the RF modules listed above have been evaluated against the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the declaration of conformity can be found at the following Internet address: <https://www.tesla.com/eu-doc>

Radiation Exposure and safety Statement

The product complies with the EU RF Exposure for Low Power Consumer Wireless Power Transfer according to EN62311:2020. The RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The product complies with EU safety requirement according to EN62368-1:2014 + A11:2017 following RED 2014/53/EU

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