

MODEL 3

OWNER'S MANUAL



Software version: 2020.12.5
Europe

SAFETY INFORMATION

The Model 3 Owner's Manual is available on the touchscreen. To view it, touch **Controls > Service > Owner's Manual**.

For detailed information about your Model 3, go to www.tesla.com, and log on to your Tesla Account, or sign up to get an account.

If you have any questions or concerns about your Model 3, call 1-877-79TESLA (1-877-798-3752).

DOCUMENT APPLICABILITY

Features released in the most recent versions of software may not be described in this document but are described in Release Notes. Display Release Notes on the touchscreen by touching the Tesla T at the top center of the touchscreen, then touching the Release Notes link. If information provided in this document conflicts with information in the Release Notes, the Release Notes take precedence. **ILLUSTRATIONS** The illustrations provided in this document are for demonstration purposes only. Depending on vehicle options, software version and market region, the information displayed on the touchscreen in your vehicle may appear slightly different.

PRODUCT SPECIFICATIONS

All specifications and descriptions contained in this document are verified to be accurate at the time of printing. However, because continuous improvement is a goal at Tesla, we reserve the right to make product modifications at any time. To communicate any inaccuracies or omissions in this document, please send an email to: ownersmanualfeedback@tesla.com.

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TESLA, TESLA MOTORS, MODEL S, MODEL X, ROADSTER, MODEL 3, MODEL Y

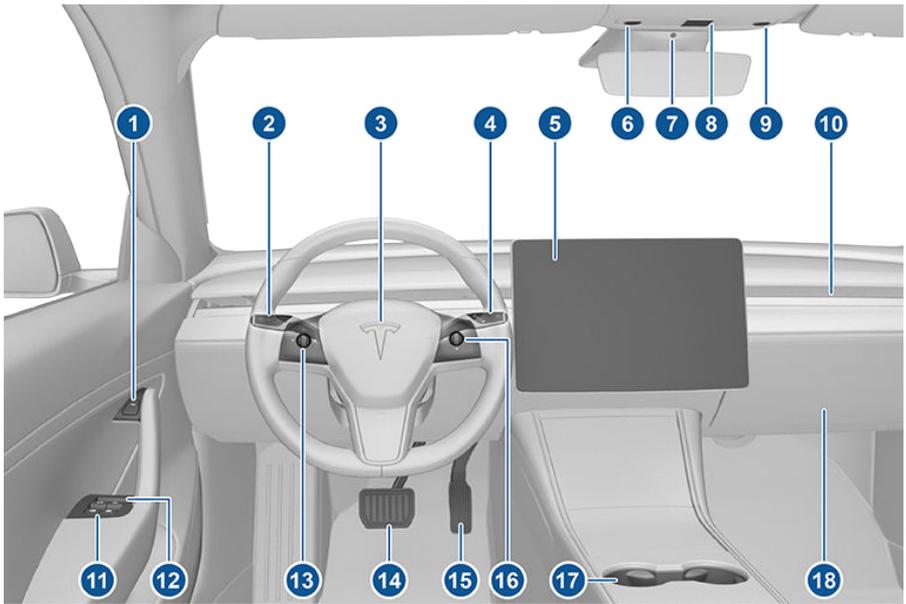


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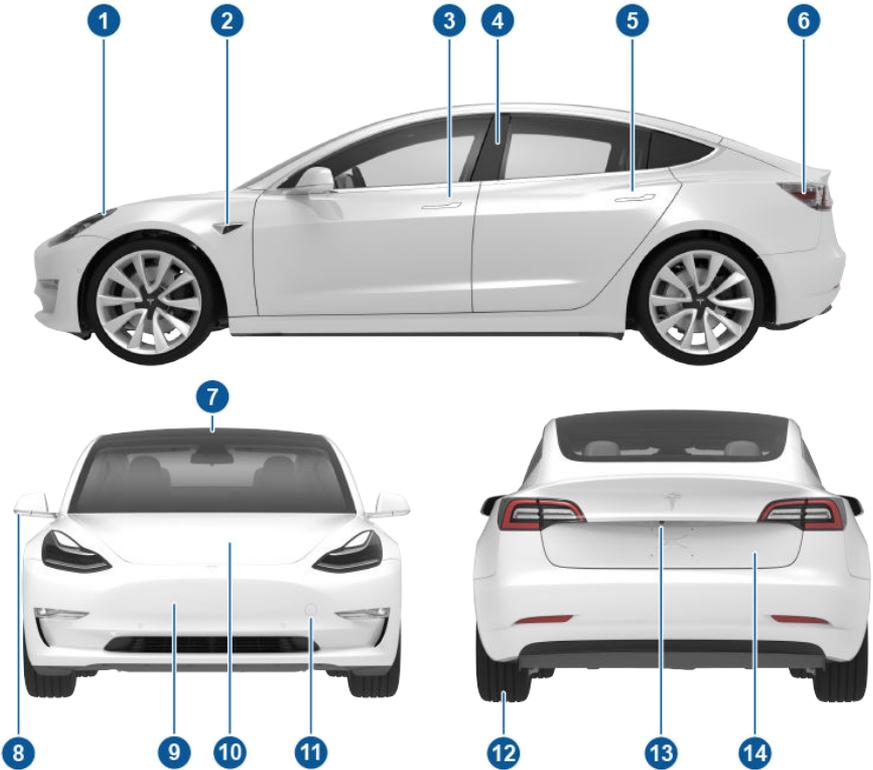
NOTE: On RHD (Right Hand Drive) vehicles, the controls illustrated above are arranged similarly, but are mirrored on the right side of the vehicle.

1. Door open button ([Opening Doors from the Interior on page 16](#))
2. High beams ([High Beam Headlights on page 69](#)), turn signals ([Turn Signals on page 70](#)), and wipers and washers ([Wipers and Washers on page 76](#))
3. Horn ([Horn on page 61](#))
4. Gear selector ([Shifting Gears on page 66](#)), Traffic-Aware Cruise Control ([Traffic-Aware Cruise Control on page 111](#)), and Autosteer ([Autosteer on page 118](#))
5. Touchscreen ([Touchscreen Overview on page 6](#))
6. Driver dome light ([Lights on page 68](#))
7. Cabin camera ([Cabin Camera on page 29](#))
8. Hazard warning flashers ([Hazard Warning Flashers on page 71](#)) and SOS button ([eCall on page 234](#))
9. Passenger dome light ([Lights on page 68](#))
10. Climate control vent (see [Climate Controls on page 154](#))
11. Power window switches ([Windows on page 19](#))
12. Manual door release ([Opening Doors from the Interior on page 16](#))
13. Left scroll button ([Scroll Buttons on page 60](#))
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Interior Overview

17. Center console ([Interior Storage and Electronics on page 25](#))
18. Glovebox ([Glovebox on page 25](#))



1. Exterior lights ([Lights on page 68](#))
2. Autopilot camera ([About Autopilot on page 108](#))
3. Front door handle ([Using Exterior Door Handles on page 16](#))
4. Key card sensor ([Keys on page 11](#)), Autopilot camera ([About Autopilot on page 108](#))
5. Rear door handle ([Using Exterior Door Handles on page 16](#))
6. Charge port ([Charging Instructions on page 193](#))
7. Autopilot cameras ([About Autopilot on page 108](#))
8. Exterior mirrors ([Mirrors on page 62](#))
9. Radar sensor (hidden from view) ([About Autopilot on page 108](#))
10. Hood/front trunk ([Front Trunk on page 22](#))
11. Tow eye cover ([Instructions for Transporters on page 235](#))
12. Wheels and tires ([Wheels and Tires on page 227](#))
13. Rear view camera ([Rear View Camera on page 91](#))
14. Rear trunk ([Rear Trunk on page 20](#))



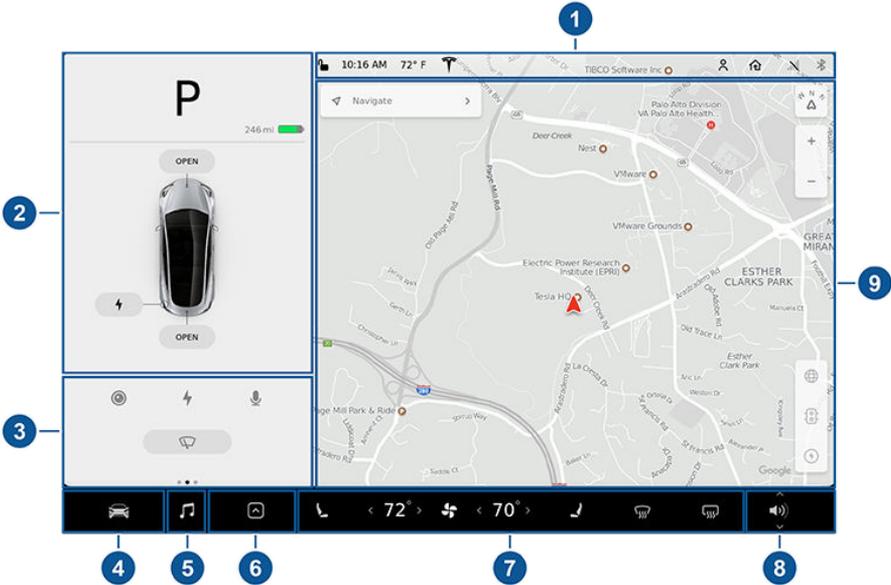
Touchscreen Overview

The features and information you need to drive Model 3 are displayed on the touchscreen. When driving, the touchscreen displays driving-related information such as driving speed, vehicle range, warnings, etc. The touchscreen is used to control many features that, in traditional cars, are controlled using physical buttons (for example, adjusting mirrors). You can also use the touchscreen to customize Model 3 to suit your preferences.



WARNING: Always pay attention to road and traffic conditions when driving. To minimize driver distraction and ensure the safety of vehicle occupants as well as other road users, avoid using the touchscreen to adjust settings while the vehicle is in motion.

NOTE: The image below is provided for demonstration purposes only. Depending on vehicle options, software version and market region, your touchscreen may appear slightly different.



1. This area on the top of the touchscreen displays useful information and provides shortcuts to various features. In addition to the time of day and the current outside temperature, this area displays the following icons:

	Touch to lock/unlock all doors and trunks.
	Access information about your Model 3. See The Tesla "T" on page 10.



	<p>Add, configure, or quickly switch driver profiles (including Valet Mode and Easy Entry). See Driver Profiles on page 57.</p>
	<p>Displays when a warning notification is in effect. Touch to display information about the warning.</p>
	<p>Displays when a software update is available (see Software Updates on page 184).</p>
	<p>Displays when Dashcam is ready to be used (you have inserted a supported flash drive into a front USB port). Touch to operate Dashcam. When in Park, touch the Dashcam icon and select "Launch Viewer" to watch your saved Dashcam and Sentry Mode clips (see Dashcam on page 92).</p>
	<p>Touch to enable or disable Sentry Mode to actively monitor the vehicle's surroundings (see Sentry Mode on page 176).</p>
	<p>Control or program HomeLink devices (if equipped) (see HomeLink Universal Transceiver on page 180).</p>
	<p>Connected to a Wi-Fi network.</p>
	<p>Connected to cellular network. Touch to connect to Wi-Fi (see Connecting to Wi-Fi on page 183).</p>



Touchscreen Overview

	Connect to a Bluetooth device (see Pairing a Bluetooth Phone on page 171).
	Displays the status of the front passenger airbag (applicable only in regions where the airbag can be disabled, as described in Airbags on page 52).

2. Car Status. This area dynamically displays the current status of Model 3 as you drive, park, open doors, turn lights on, etc. Monitor this area when driving as it displays important information such as driving speed and warning messages (see [Car Status on page 72](#)). When the car is in Park, you can open the trunks or charge port door.

3. Cards. This area automatically updates to display information such as incoming calls, seat belt reminders, current state of the wipers, etc. It also provides easy access to the rear view camera (see [Rear View Camera on page 91](#)), charging status (see [Charging Instructions on page 193](#)), voice commands (see [Using Voice Commands on page 175](#)), wiper controls (see [Wipers on page 76](#)), and seat belt reminders (see [Seat Belt Reminders on page 34](#)). Swipe to the right or left to access:

- Trips. You can display distance driven, energy usage and energy efficiency starting at any time, or since Model 3 was last charged. You can also display this information for up to two trips. Touch ... in the top right corner of a trip to rename or reset a trip.
- Tire Pressures. Display tire pressures or view cautions or warnings related to pressures that are not within acceptable limits (see [Tire Care and Maintenance on page 201](#)).

4. Controls. Touch to control features and customize Model 3 to suit your preferences (see [Controls on page 145](#)).

5. Media Player (see [Media and Audio on page 167](#)).

6. Touch the app launcher then choose from the following apps:

	Call. See Phone on page 171 .
	Calendar. See Calendar on page 174 .
	Camera. Display the area behind Model 3. This area also displays automatically whenever you shift into Reverse. See Rear View Camera on page 91 .



	<p>Energy. See Getting Maximum Range on page 89.</p>
	<p>Charging. See Charging Instructions on page 193.</p>
	<p>Web. Access the Internet using the web browser (if equipped with premium connectivity).</p>
	<p>Entertainment. Browse the full library of games and access video streaming services, all from your vehicle's touchscreen. To launch, Model 3 must be in Park.</p> <p>NOTE: Due to vehicle configuration or market region, Entertainment, Arcade, and/or Theater may not be available on your vehicle.</p>
	<p>Toybox. Display Easter Eggs (see Easter Eggs on page 239).</p>

NOTE: Swiping up on the app launcher displays the most recently used app (provided an app is not currently being displayed).

NOTE: Depending on the market region and vehicle options, your vehicle may not be equipped with some features.

7. Climate Controls (see [Climate Controls on page 154](#)).

8. Volume Control (see [Volume Control on page 167](#)).

9. The map displays on the touchscreen at all times (see [Maps and Navigation on page 160](#)).

NOTE: When you touch **Controls**, choose an app, or expand Media Player, the window displays on top of the map. To close the Controls window, touch **Controls** again or touch the **X** in the top corner of the window. To close an app, touch the **X** in the top corner of the window. To close Media Player, drag it all the way down to the bottom of the touchscreen or touch the icon again.



The Tesla "T"

Touch the Tesla "T" at the top center of the touchscreen as a one-touch shortcut to the **Controls** > **Software** tab, which displays:

- Vehicle name (see [Naming Your Vehicle on page 152](#)).
- Vehicle configuration.
- Odometer.
- Vehicle Identification Number (VIN).
- Version of software currently installed on your Model 3.
- Access to release notes associated with the currently-installed software version.
- Access to this owner's manual.
- One-touch access to call Tesla Customer Support and Roadside Assistance (if available in your market region).



Three Types of Keys

Model 3 supports three types of keys:

- **Authenticated phone** - You can set up your personal smartphone to communicate with Model 3 using Bluetooth. Supports automatic locking and unlocking as well as several other functions using the Tesla mobile app.
- **Key card** - Tesla provides a key card that communicates with Model 3 using short range radio-frequency identification (RFID) signals. The key card is used to "authenticate" your phone to work with Model 3 and to add or remove other key cards, phones, or key fobs. In situations where your authenticated phone has a dead battery, or is lost or stolen, use your key card to unlock, drive, and lock Model 3.
- **Key fob** - The key fob allows you to press buttons to open the front and rear trunks, and unlock, lock, and drive Model 3. The key fob also supports automatic locking and unlocking, if available in your region (see [Passive Key Fob on page 13](#)). This is an accessory sold separately.

Model 3 supports a total of 19 keys, which can include authenticated phones, key cards, and up to four key fobs.



CAUTION: Remember to bring a key with you when you drive. Although you can drive Model 3 away from its key, you will be unable to power it back on after it powers off.

Authenticated Phone

Using your phone is a convenient way to access your Model 3. As you approach, your phone's Bluetooth signal is detected and doors unlock when you press a door handle. Likewise, when you exit and walk away with the phone, doors automatically lock (provided the **Walk-Away Door Lock** feature is turned on, as described in [Walk-Away Door Lock on page 17](#)).

Before you can use a phone to access Model 3, follow these steps to authenticate it:

1. Download the Tesla mobile app to your phone.

2. Log into the Tesla mobile app using your Tesla Account user name and password.

NOTE: You must remain logged in to your Tesla Account to use your phone to access Model 3.

3. Ensure that your phone's Bluetooth settings are turned on.

You must have your phone's Bluetooth setting turned on AND you must also ensure that Bluetooth is turned on within your phone's global settings for the Tesla mobile app. For example, on your phone, navigate to Settings, choose the Tesla mobile app, and ensure the Bluetooth setting is enabled.

NOTE: Model 3 communicates with your phone using Bluetooth. To authenticate your phone or use it as a key, the phone must be powered on and Bluetooth must be enabled. Keep in mind that your phone must have enough battery power to run Bluetooth and that many phones disable Bluetooth when the battery is low.

4. Ensure that Allow Mobile Access (**Controls > Safety & Security > Allow Mobile Access**) is enabled.

5. In the Tesla mobile app, touch **PHONE KEY** then touch **START** to search for your Model 3.

When your Model 3 is detected, the mobile app asks you to tap your key card.

6. Tap the key card against the Model 3 card reader on the door pillar or center console (see [Key Card on page 12](#)).

When Model 3 detects your key card, the mobile app confirms that your phone has been successfully authenticated. Touch **DONE**.

If the key card is not successfully scanned within approximately two minutes, the mobile app displays an error message. Touch **PHONE KEY** on the app again to retry.

To view a list of keys that can currently access Model 3, or to remove a phone, touch **Controls > Locks** (see [Managing Keys on page 14](#)).



NOTE: Authenticating your phone allows you to use it as a key to access Model 3. To use the phone hands-free, access your phone's contacts, play media from it, etc., you must also pair and connect to it using the Bluetooth settings (see [Phone on page 171](#)).

NOTE: Model 3 can connect to three phones simultaneously. Therefore, if more than one phone is detected and you want to use, or authenticate, a different phone, move the other connected phone(s) out of range or turn off its Bluetooth setting.

NOTE: Unlike the mobile app, once a phone has been authenticated, it no longer requires an internet connection to communicate with Model 3. Authenticated phones communicate with Model 3 using Bluetooth.

NOTE: Although Bluetooth typically communicates over distances of up to approximately 9 meters, performance can vary based on the phone you are using, environmental interference, etc.

NOTE: If multiple vehicles are linked to the Tesla Account, you must switch the mobile app to the vehicle that you want to access before you can use the phone as a key.

Key Card

Tesla provides you with two Model 3 key cards, designed to fit in your wallet. Tap your Model 3 key card on one of its card readers, located on the driver's side door pillar and on the center console.

To use a key card to unlock or lock Model 3, position the card as shown and tap it against the card reader located just below the Autopilot camera on the driver's side door pillar. When Model 3 detects the key card, the exterior lights flash, the mirrors unfold or fold (if Fold Mirrors is on), the horn sounds (if Lock Sound Confirmation is on), and the doors unlock or lock.

NOTE: You may need to physically touch the center console or driver's side door pillar with the key card, and you may need to hold it against the transmitter for one or two seconds.



Once inside, power up Model 3 by pressing the brake pedal within two minutes of scanning the key card (see [Starting and Powering Off on page 64](#)). If you wait longer than two minutes, you must re-authenticate by placing the key card near the card reader located behind the cup holders on the center console. When your key card is detected, your two minute authentication period restarts.



NOTE: Walk-Away Door Lock operates only when using an authenticated phone or passive key fob. When you walk away from Model 3 carrying your key card, Model 3 does not automatically unlock/lock, even if this feature is turned on (see [Walk-Away Door Lock on page 17](#)).



CAUTION: Always carry your key card with you in your purse or wallet to use as a backup in case your authenticated phone has a dead battery, or is lost or stolen.



Key fob

If you have purchased the key fob accessory (available for purchase from Tesla stores or online at <http://www.tesla.com/shop>), you can quickly familiarize yourself with this key by thinking of it as a miniature version of Model 3, with the Tesla badge representing the front. The key has three buttons that feel like softer areas on the surface.



1. Front trunk - Double-click to open the front trunk.
2. Lock/Unlock All - Single-click to lock doors and trunks (all doors and trunks must be closed). Double-click to unlock doors and trunks.
3. Rear trunk - Double-click to open the rear trunk. Hold down for one to two seconds to open the charge port door.

Once inside, power up Model 3 by pressing the brake pedal within two minutes of pressing the unlock button on the key fob (see [Starting and Powering Off on page 64](#)). If you wait longer than two minutes, you must press the unlock button again, or place the key fob near the card reader located behind the cup holders on the center console. When your key fob is detected, the two minute authentication period restarts.

When approaching or leaving Model 3 carrying the key fob, you do not need to point the key fob at Model 3 as you press a button, but you must be within operating range.

Radio equipment on a similar frequency can affect the key. If this happens, move the key at least 30 cm away from other electronic devices (phone, laptop, etc.).

If the key fob does not work (for example, its battery is dead), you can touch its flat side against the card reader on the driver's side door pillar (like the key card). Instructions for changing the battery are provided in [Replacing the Key Fob Battery on page 14](#).

NOTE: You can use the same key fob with multiple Model 3 vehicles provided you authenticate it (see [Managing Keys on page 14](#)). However, key fob works with only one Model 3 at a time. Therefore, to use a key fob for a different Model 3, touch its flat side against the card reader on the driver's side door pillar.

NOTE: Model 3 supports up to four different key fobs.



CAUTION: Protect the key from impact, high temperatures, and damage from liquids. Avoid contact with solvents, waxes and abrasive cleaners.

Passive Key Fob

Due market region or vehicle configuration, Passive Key Fob may not be available for your vehicle.

Locking and unlocking Model 3 with your key fob is conveniently hands-free. Although you must be carrying a paired key fob, there is no need to use it. Model 3 has sensors around the vehicle that can recognize the presence of a key fob within a range of approximately one meter. Therefore, you can keep your key fob in your pocket or purse and simply pull on the door handle to unlock. When carrying your key fob with you, you can also open the trunk without having to use the key by pressing the trunk's exterior door handle. If Walk-Away Lock is on, your vehicle automatically locks when you exit and senses that the key fob is no longer in range (see [Walk-Away Door Lock on page 17](#)). Passive key fob is automatically enabled when you pair your key fob to your vehicle.

The key fob can only be paired to one vehicle at a time. If you want your key fob to passively lock and unlock for a different vehicle, touch the flat side of the key fob onto the driver's side door pillar or center console



card reader. You only need to do this once to pair it to your desired vehicle. You must pair your key fob every time you use it with a different vehicle.

NOTE: Only key fobs with the TESLA logo printed on the flat side have the passive locking and unlocking functionality. Key fobs with the MODEL 3 logo printed on the flat side cannot passively lock and unlock your vehicle.

NOTE: For increased security, your key fob disables itself after five minutes of being stationary while in range but the vehicle is not in use. The vehicle will not lock or unlock passively when this occurs. Shake or press a button on your key fob to wake it up.

Replacing the Key Fob Battery

Under normal use, the accessory key fob (available at <https://shop.tesla.com>) has a battery that lasts for up to five years, depending on key fob version and selected vehicle settings. When the battery is low, a message displays on the touchscreen.

To replace the key fob battery:

1. With the key fob placed button side down on a soft surface, release the bottom cover.



2. Remove the battery by lifting it away from the retaining clips.



3. While avoiding touching the battery's flat surfaces, insert the new battery (type CR2032) with the '+' side facing up.

NOTE: CR2032 batteries can be purchased through online retailers, local supermarkets, and drug stores.

4. Holding the bottom cover at an angle, align the tabs on the cover with the corresponding slots on the key fob, then press the cover firmly onto the key fob until it snaps into place.
5. Test that the key fob works by unlocking and locking your vehicle.

Attaching a Lanyard

To attach a lanyard, release the bottom cover as described above. Place the lanyard over the pin located between the slots on the widest side of the key fob. Re-align the cover and snap into place.

Managing Keys

To display a list of all keys (phones, key cards, and key fobs) that can access your Model 3, touch **Controls > Locks**. An icon displays next to each key to indicate whether the key is a phone, key card, or key fob. Use this list to manage keys that have access to your vehicle. To add or delete keys, see [Adding and Removing Keys](#) on page 15.



NOTE: You can use the same key for more than one Model 3. This prevents you from having to deal with multiple keys when you switch vehicles. If you customize the name of an authenticated key card or key fob on one Model 3 (by touching the pencil icon), any other Model 3 to which the key card or key fob is authenticated also displays the same customized name.

NOTE: Model 3 supports up to 19 keys. When you reach this limit, you must delete a key before adding a new one.

Adding and Removing Keys

Adding a new key card or key fob:

NOTE: If adding a key fob, ensure the key fob is at room temperature. Pairing may be unsuccessful if the key fob is cold.

1. On the touchscreen, touch **Controls** > **Locks** then touch **+** in the Keys section.
2. Scan your new key card or key fob on the key reader behind the cup holders on the top of the center console. After the new key card or key fob is recognized, remove it from the key reader.
3. Scan an already-authenticated (i.e. already has access to the vehicle) key card or key fob on the key reader behind the cup holders on the top of the center console.
4. When complete, the key list on the touchscreen displays the newly-authenticated key. You can customize its name by touching the associated pencil icon.

Adding a new phone key:

NOTE: To add a new phone key, Bluetooth must be enabled and the phone must have the Tesla mobile app installed and connected to the vehicle's Tesla account.

1. While sitting in the vehicle, open the Tesla mobile app and select the appropriate vehicle (if there are multiple vehicles associated with the account), then touch **Phone Key** > **Start**.
2. Scan an already-authenticated key card or key fob on the key reader behind the cup holders on the top of the center console.

3. When the mobile app notifies you that the pairing was successful, touch **Done**. The key list on the touchscreen (**Controls** > **Locks**) displays the new phone key. The name of the phone key is determined by the name used in the phone's settings.

Removing a key:

When you no longer want a key to access your vehicle (for example, you lost your phone or key card, etc.), you can remove the key.

1. On the touchscreen, touch **Controls** > **Locks**.
2. Find the key that you would like to delete in the key list, then touch the key's associated trash icon.
3. When prompted, scan an already-authenticated key card or key fob on the key reader behind the cup holders on the top of the center console to confirm the deletion. When complete, the key list no longer includes the deleted key.

NOTE: Your vehicle requires at least one authenticated key card or key fob at all times. If only one key card is included on the key list, this key cannot be deleted.



Keyless Locking and Unlocking

Locking and unlocking Model 3 is easy and convenient. Just carry your authenticated phone or paired key fob with you. Model 3 recognizes the presence of an authenticated phone or paired key fob and automatically unlocks when you press a door handle, and locks when you leave (see [Walk-Away Door Lock on page 17](#)).

NOTE: If you don't have your authenticated phone or paired key fob with you (or if the phone's battery is dead or its Bluetooth setting is turned off), place the key card against the driver's side door pillar to manually unlock or lock Model 3 (see [Keys on page 11](#)).

NOTE: Due to market region or vehicle configuration, an authenticated phone or Passive Key Fob may not be available for your vehicle.

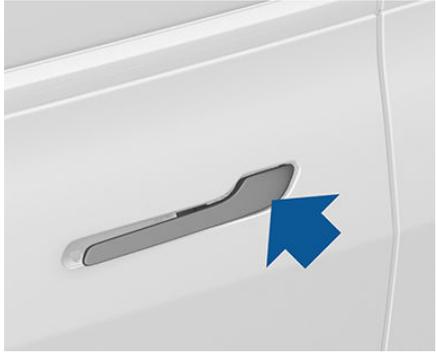
NOTE: Your key fob (<https://shop.tesla.com>) also allows you to press buttons to lock and unlock Model 3.

NOTE: Walk-Away Door Lock operates only when using an authenticated phone or paired key fob. When you walk away from Model 3 carrying a key card or unpaired key fob accessory, Model 3 does not automatically unlock/lock, even if this feature is turned on (see [Walk-Away Door Lock on page 17](#)).

NOTE: Accessory key fobs manufactured before approximately October, 2019 are not equipped with passive functionality.

Using Exterior Door Handles

Use your thumb to push the wide part of the door handle. The handle pivots toward you, and you can open the door by pulling the handle or pulling the edge of the door.



The handle retracts automatically.

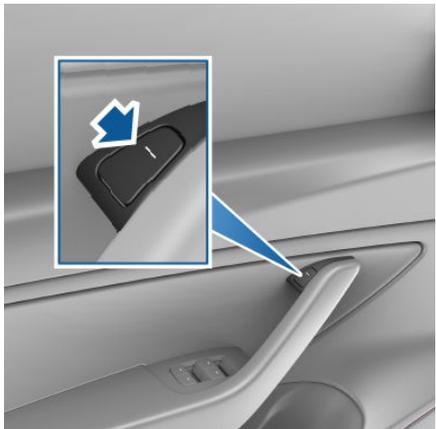


When a door or trunk is open, the touchscreen displays the Door Open indicator light.

NOTE: See [Cold Weather Best Practices on page 104](#) to ensure the vehicle's door handles function properly in cold weather.

Opening Doors from the Interior

Model 3 doors are electrically powered. To open a door while sitting inside, press the button located at the top of the interior door handle and push the door open.





NOTE: To prevent children from opening the rear doors, turn on child-protection locks (see [Child-Protection Lock on page 18](#)).

In the unlikely situation that Model 3 has no power, these electrically powered buttons at the top of the door handles no longer work. Instead, pull up the manual door release located in front of the window switches on the front doors.



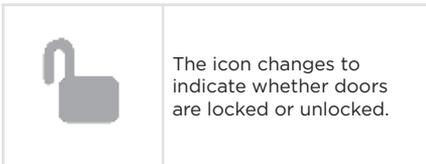
NOTE: Only the front doors are equipped with a manual door release.



CAUTION: Manual door releases are designed to be used only in situations when Model 3 has no power. Whenever Model 3 has power, use the button located at the top of the interior door handle.

Interior Locking and Unlocking

While sitting inside Model 3, you can lock and unlock all doors and trunks by touching the lock icon on the touchscreen.



You can also unlock the doors by pressing the Park button on the end of the gear selector a second time. Pressing this button once engages the Park gear and pressing it again unlocks the doors.

Walk-Away Door Lock

Doors and trunks can automatically lock whenever you walk away carrying your authenticated phone or paired key fob (if ordered after approximately October 1, 2019). To turn this feature on or off, touch **Controls** > **Locks** > **Walk-Away Door Lock**.

When the doors lock, the exterior lights flash once and the mirrors fold (if Fold Mirrors is on). To also hear a confirmation sound whenever Model 3 locks, touch **Controls** > **Locks** > **Lock Confirmation Sound** > **ON**.

Model 3 does not automatically lock if:

- An authenticated phone or paired key fob is detected inside Model 3.
- You are not using an authenticated phone or paired key fob as the key, and walk away carrying the key card or unpaired key fob (see [Passive Key Fob on page 13](#)). When using the key card you must manually lock Model 3 by tapping the key card against the door pillar. When using an unpaired key fob (sold as an accessory), you must manually lock Model 3 by pressing the lock button. See [Keys on page 11](#).
- A door or trunk is not fully closed.

NOTE: If all doors are closed and Model 3 is automatically unlocked by your authenticated phone or paired key fob, walk-away locking is temporarily suspended for one minute. If you open a door within this minute, it will not re-lock until all the doors are closed and you have walked away with the authenticated phone or paired key fob.

NOTE: If Model 3 detects an authenticated key for five minutes after you exit the vehicle and close all doors, Walk-Away Lock disables and will not lock when you leave with the key. You will need to manually lock your vehicle until after your next drive.



Drive Away Locking

Model 3 automatically locks all doors (including the trunks) whenever your driving speed exceeds 8 km/h.

Child-Protection Lock

Model 3 has child-protection locks on the rear doors to prevent them from being opened using the interior release buttons. On the touchscreen, touch **Controls** > **Locks** > **Child Lock**.

NOTE: It is recommended that you turn child-protection locks on whenever children are seated in the rear seats.

Unlock on Park

When you stop Model 3 and engage the Park gear, you can choose to unlock all doors. To turn this feature on or off, touch **Controls** > **Locks** > **Unlock on Park**.

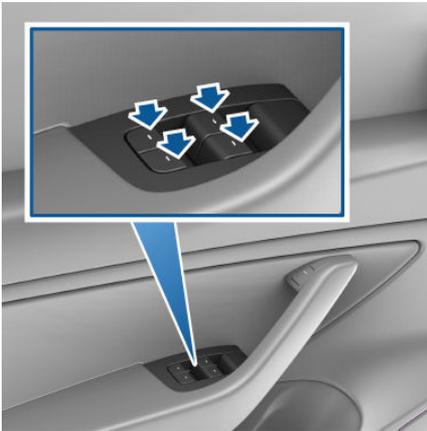
NOTE: If set to **OFF**, you can unlock all doors by pressing the Park button a second time after engaging the Park gear.



Opening and Closing

Press down on a switch to lower the associated window. Window switches operate at two levels:

- To lower a window fully, press the switch all the way down and immediately release.
- To lower a window partially, press the switch gently and release when the window is where you want it.



Similarly, pull a switch to raise the associated window:

- To raise a window fully, pull the switch all the way up and immediately release.
- To raise a window partially, pull the switch gently and release when the window is where you want it.

NOTE: See [Cold Weather Best Practices on page 104](#) for information on preparing windows for cold weather.



CAUTION: When exiting the vehicle, be careful not to unintentionally press the window switches, as they may lower the windows on the driver or other doors.



CAUTION: Closing the door while the window is fully raised (for example, if manually raised) can damage the windows or the vehicle. Ensure the window is slightly lowered before closing the door.



WARNING: Before closing a window, it is the driver's responsibility to ensure that all occupants, especially children, do not have any body parts extended through the window's opening. Failure to do so can cause serious injury.

Locking Rear Windows

To prevent passengers from using the rear window switches, touch **Controls > Quick Controls > Window Lock**. To unlock the rear windows, touch **Window Lock** again.



WARNING: To ensure safety, it is recommended that you lock the rear window switches whenever children are seated in the rear seats.



WARNING: Never leave children unattended in Model 3.

Calibrating Windows

In the unlikely event that a window behaves unexpectedly (touches the bright molding, fails to open or close properly, goes down more than normal when the door opens, etc.), you can calibrate it to potentially fix the issue.

To calibrate a window:

1. Close the door with the affected window.
2. Sit in the driver's seat and close the driver door.
3. Use the driver window switch to **raise** the affected window until it stalls.
4. Use the driver window switch to **lower** the affected window until it stalls.
5. Use the driver window switch to **raise** the affected window until it stalls.

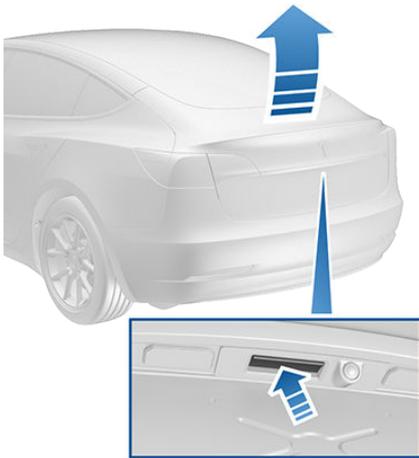
The window should now be calibrated. If the issue continues after attempting the calibration procedure a couple times, contact Tesla.



Opening

To open the rear trunk, ensure the vehicle is in Park, then pull the rear trunk open:

- Touch the associated **OPEN** button on the touchscreen.
- Double-click the rear trunk button on the key fob accessory.
- Touch the rear trunk button on the mobile app.
- With Model 3 unlocked, press the switch located under the rear trunk's exterior handle.



When a door or the rear trunk is open, the touchscreen displays the Door Open indicator light. The image of your Model 3 on the touchscreen also displays the open trunk.

To open the rear trunk from inside Model 3 in the unlikely situation that Model 3 has no power, see [Interior Emergency Trunk Release on page 21](#).



WARNING: Before opening or closing the rear trunk, it is important to check that the area around the trunk is free of obstacles (people and objects).

Load Limits

Secure all cargo before moving Model 3, and place heavy cargo in the lower trunk compartment.



CAUTION: To avoid damage, never load more than 130 lbs (60 kg) on the rear load floor (above the lower trunk compartment), or more than 285 lbs (130 kg) in the large lower trunk compartment. Doing so can cause damage.

Closing

To close the rear trunk, push it downward until you hear the latch click into place.

NOTE: Model 3 is equipped with pull cups to assist with lowering the rear trunk.



WARNING: Before driving, ensure that the trunk is securely latched in the fully-closed position by lifting up on the bottom edge and confirming there is no movement.

Accessing the Cargo Area

To access the cargo area inside the rear trunk, pull up the strap at the rear of the cargo cover. You can then fold the cargo cover forward or remove it from Model 3.



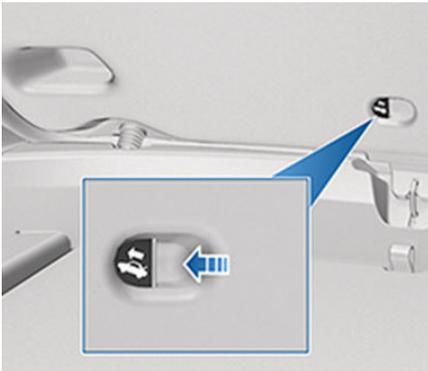
WARNING: Do not allow children to play inside the trunk or become locked inside. An unrestrained child could suffer serious injury or death in a crash. A child could suffer heat exhaustion if trapped in the vehicle, especially without climate control on.



CAUTION: Never load more than 130 lbs (60 kg) on the rear load floor (above the lower trunk compartment) or more than 285 lbs (130 kg) in the lower trunk compartment. Doing so can cause damage.

Interior Emergency Trunk Release

An illuminated mechanical release located inside the rear trunk allows you to open the rear trunk from the inside if Model 3 has no electrical power. This mechanical release also allows a person locked inside to get out.



1. Firmly push the illuminated button in the direction of the arrow to release the latch.
2. Push the rear trunk open.

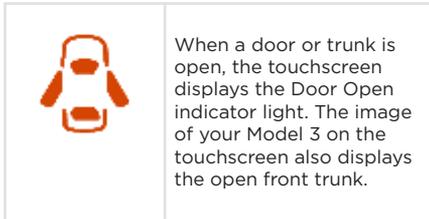
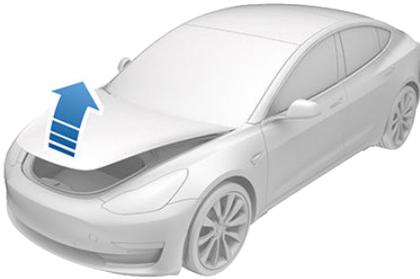
NOTE: The button glows for several hours after a brief exposure to ambient light.



Opening

To open the front trunk:

1. Ensure that the area around the hood is free of obstacles.
2. Touch the associated **OPEN** button on the touchscreen, double-click the front trunk button on the key fob accessory, or touch the front trunk button on the mobile app.
3. Pull the hood up.



WARNING: Before opening or closing the hood, it is important to check that the area around the hood is free of obstacles (people and objects). Failure to do so may result in damage or serious injury.

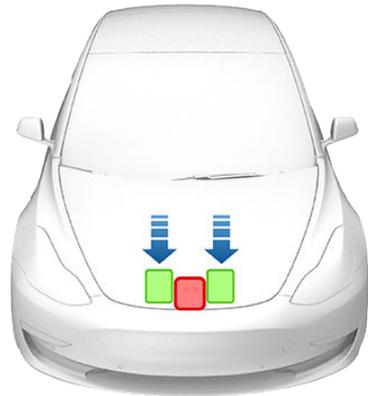
NOTE: The front trunk locks whenever closed and you lock Model 3 using the touchscreen, mobile app, key card, you leave Model 3 carrying your authenticated phone (if Walk-Away Door Lock is turned on), or if Valet mode is active (see [Valet Mode on page 58](#)).

Closing

The Model 3 hood is not heavy enough to latch under its own weight and applying pressure on the front edge or center of the hood can cause damage.

To properly close the hood:

1. Lower the hood until the striker touches the latches.
2. Place both hands on the front of the hood in the areas shown (in green), then press down firmly to engage the latches.
3. Carefully try to lift the front edge of the hood to ensure that it is fully closed.



CAUTION: To prevent damage:

- Apply pressure only to the green areas shown. Applying pressure to the red areas can cause damage.
- Do not close the hood with one hand. Doing so applies concentrated force in one area and can result in a dent or crease.
- Do not apply pressure to the front edge of the hood. Doing so can crease the edge.
- Do not slam or drop the hood.



WARNING: Before driving, you must ensure that the hood is securely latched in the fully closed position by carefully trying to lift the front edge of the hood upward and confirming there is no movement.

Interior Emergency Release

An illuminated interior release button inside the front trunk allows a person locked inside to get out.



Press the interior release button to open the front trunk, then push up on the hood.

NOTE: The interior release button glows following a brief exposure to ambient light.



WARNING: People should never climb inside the front trunk. Never shut the front trunk when a person is inside.



WARNING: Care should be taken to ensure that objects inside the front trunk do not bump against the release button, causing the trunk to accidentally open.

Opening Hood with No Power

In the unlikely event that Model 3 has no 12V power, you will be unable to open the front trunk using the touchscreen, key fob, or mobile app. To open the front trunk in this situation:

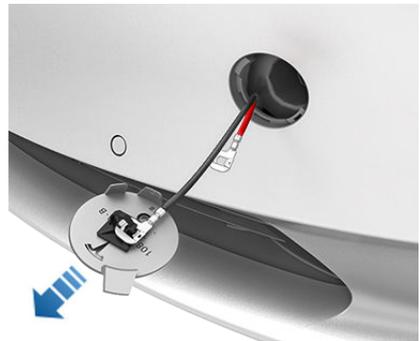
NOTE: The following will not open the front trunk if Model 3 is locked and has 12V power.

1. Locate an external 12V power supply (such as a portable jump starter).
2. Release the tow eye cover by pressing firmly on the top right perimeter of the cover until it pivots inward, then gently pulling the raised section toward you.

NOTE: The tow eye cover is connected to the vehicle's black negative (-) terminal.



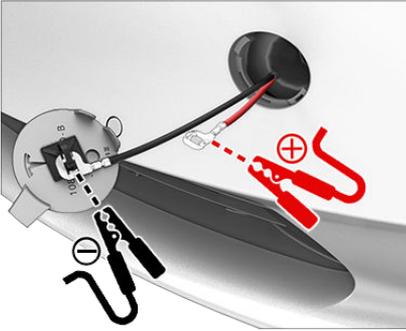
3. Pull the two wires out of the tow eye opening to expose both terminals.



4. Connect the 12V power supply's red positive (+) cable to the red positive (+) terminal.
5. Connect the 12V power supply's black negative (-) cable to the black negative (-) terminal.



Front Trunk



NOTE: Applying external 12V power to these terminals only releases the hood latches. You cannot charge the 12V battery using these terminals.

6. Turn on the external power supply (refer to the manufacturer's instructions). The hood latches are immediately released and you can now open the hood to access the front trunk area.
7. Disconnect both cables, beginning with the black negative (-) cable.
8. If pulling the vehicle onto a flatbed truck, do not replace the tow eye cover yet. If necessary, replace the tow eye cover by inserting the wires into the tow eye opening and aligning the tow eye cover into position and turning it into place.





Glovebox

To open the glovebox, touch **Controls** > **Glovebox** on the bottom corner of the touchscreen. The glovebox automatically opens and its light turns on.



To close the glovebox, push it upward until it clicks into its closed position.

NOTE: If you leave the glovebox open, its light eventually turns off.

NOTE: The glovebox locks whenever closed and you lock Model 3 using the mobile app, key card, you leave Model 3 carrying your authenticated phone (if Walk-Away Door Lock is turned on), or if Valet mode is active (see [Valet Mode on page 58](#)). It does not lock when Model 3 is locked by touching the lock icon on the touchscreen.



WARNING: When driving, keep the glovebox closed to prevent injury to a passenger if a collision or sudden stop occurs.

Center Console

In addition to housing an RFID transmitter that reads key fobs and key cards (see [Key Card on page 12](#)), the center console includes cup holders, two storage compartments, and a phone dock for two phones (or other devices).



To open the main storage compartment, pull its cover upward.

Open the other storage compartment or access the phone dock by pressing firmly near the cover's opening edge. To close a storage compartment, push its cover down gently.

USB Ports

Model 3 has two USB 2.0 ports located in the front compartment of the center console. These ports can be used to connect and charge your phone (see [Installing Phone Charging Cable on page 26](#)), save videos when using features such as Sentry Mode or Dashcam, or play audio files stored on a phone or USB device (see [Playing Media from Devices on page 169](#)).

Open the center console door below the touchscreen and lift the phone dock upward to access the front USB ports.





Two additional USB ports are located in the rear of the center console. Passengers in the rear seats can use these ports to charge their USB-connected devices. Devices connected to the rear USB ports do not communicate with the vehicle.



NOTE: Power is available whenever the vehicle is considered "awake". The vehicle may be awake for many reasons. For example, when using features such as Summon, or when features such as Cabin Overheat Protection, Keep Climate On, Dog Mode, etc. are enabled. The vehicle is also awake whenever the 12V battery is being charged or is in use, during HV charging, when the vehicle is communicating with the mobile app, etc. Leaving an accessory plugged in does not deplete the 12V battery.

NOTE: Always use USB 2.0 compliant cables when connecting devices to the USB ports. Using non-compliant cables can result in slower charging and, if plugged into either of the front two ports, can result in potential connection problems or degraded performance when trying to access media files on the device.

NOTE: Do not connect multiple devices using a USB hub. This can prevent connected devices from charging or from being recognized by Media Player, Sentry Mode, Dashcam, etc.

Installing Phone Charging Cable

To make it easy to connect your phone while keeping the console free of clutter, you can install a phone charging cable in Model 3.

NOTE: The phone dock supports two phones side-by-side.

To install a phone charging cable:

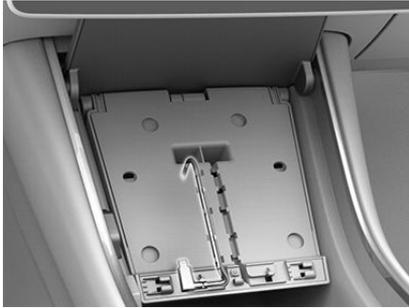
1. Open both center console doors in front of the cup holders.



2. Remove the rubber mat from the phone dock.
3. Lift the phone dock to access the USB ports.
4. Release the cover from the base of the phone dock by sliding it to the left.



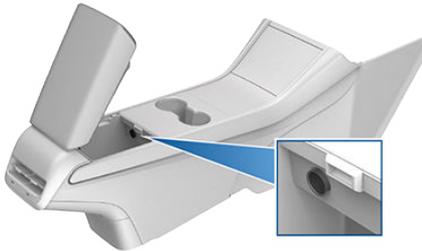
5. Plug the USB connector on the phone charging cable into a USB port.
6. Insert the phone end of the charging cable through the bottom of the phone dock and route the cable through the securing tabs towards the bottom of the phone dock.



7. Reinstall the cover to the base of the phone dock by sliding it to the right.
8. Lower the phone dock and reinstall the rubber mat.

12V Power Socket

Your Model 3 has a power socket located in the center console's rear compartment.



The power socket is suitable for accessories requiring up to 12A continuous draw (16A peak).

NOTE: Power is available whenever the vehicle is considered "awake". The vehicle may be awake for many reasons. For example, when using features such as Summon, or when features such as Cabin Overheat Protection, Keep Climate On, Dog Mode, etc. are enabled. The vehicle is also awake whenever the 12V battery is being charged or is in use, during HV charging, when the vehicle is communicating with the mobile app, etc. Leaving an accessory plugged in does not deplete the 12V battery.

WARNING: The power socket and an accessory's connector can become hot.

WARNING: To prevent excessive interference with the vehicle's electronics, Tesla recommends that you do not plug any non-Tesla accessories, including power inverters, into the 12V power socket. However, if you do use a non-Tesla accessory and notice any malfunctions or unexpected behavior, such as indicator lights, alert messages, or excessive heat from the accessory, unplug the accessory from the 12V power socket immediately.

CAUTION: Do not attempt to jump start Model 3 using the 12V power socket. Doing so can result in damage.

Rear Console

Your Model 3 has a rear console integrated in the center of the second row seat back. Pull the console down to access the rear cup holders, or use it as an armrest.



Coat Hangers

Your Model 3 has a coat hanger on each side of the vehicle in the second row. Push the coat hanger to release it. Push it again to retract it.





Cabin Camera

Model 3 is equipped with a camera in the cabin. The camera is not currently active, but might be used in potential future features which could be added to Model 3 with software releases.



Keep the camera lens clean, and free of obstructions. Remove any buildup of dirt or dust by occasionally wiping the camera lens with a soft damp cloth.

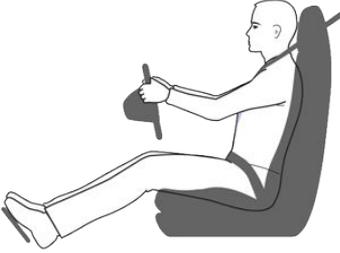


CAUTION: Do not use chemical-based or abrasive cleaners. Doing so can damage the surface of the camera lens.



Correct Driving Position

The seat, head support, seat belt and airbags work together to maximize your safety. Using these correctly ensures greater protection.

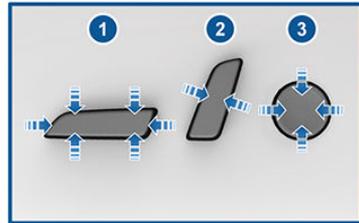


Position the seat so you can wear the seat belt correctly, while being as far away from the front airbag as possible:

1. Sit upright with both feet on the floor and the seat back reclined no more than 30 degrees.
2. Make sure you can easily reach the pedals and that your arms are slightly bent when holding the steering wheel. Your chest should be at least 25 cm from the center of the airbag cover.
3. Place the shoulder section of the seat belt mid-way between your neck and your shoulder. Fit the lap section of the belt tightly across your hips, not across your stomach.

Model 3 seats include integrated head supports that cannot be adjusted or removed.

Adjusting the Front Seats



1. Move seat forward/backward and adjust the seat's height and tilt angle up/down.
2. Adjust backrest.
3. Adjust lumbar support.



WARNING: Before adjusting a front seat, check that the area around the seat is free of obstacles (people and objects).



WARNING: Do not adjust seats while driving. Doing so increases the risk of a collision.



WARNING: Riding in a moving vehicle with the seat back reclined can result in serious injuries in a collision, as you could slide under the lap belt or be propelled into the seat belt. Ensure your seat back is reclined no more than 30 degrees when the vehicle is moving.

Folding Rear Seats

Model 3 has a split rear seat that can fold forward.

NOTE: Driving with the rear seats folded forward might result in increased perceivable noise and/or vibration coming from the rear of the vehicle (trunk, suspension, etc.).

Before folding, remove items from the seats and the rear footwell. To allow the rear seat backs to fold completely flat, you may need to move the front seats forward.



To fold a rear seat, pull the corresponding lever and fold the seat forward.



Raising Rear Seats

Before raising a rear seat, make sure that the seat belts are not trapped behind the backrest.

Pull the seat back upward until it locks into place.

To confirm that the seat back is locked in the upright position, try pulling it forward.



WARNING: Always ensure the seat backs are locked in their upright position by pushing it forward or rearward. Failure to do so increases the risk of injury.

Head Supports

The front seats and outer rear seats include integrated head supports that are not adjustable.

The rear center seat includes an adjustable head support that can be raised, lowered, or removed. The head support should always be raised and locked into position (so that the center is aligned with the center of the ears) when occupied by a passenger that is not in a child safety seat.



WARNING: The head support in the rear center seat must be lowered when a seat belt retained child safety seat is installed in that seating position. See [Raising/Lowering the Rear Center Head Support](#) on page 32.



WARNING: Ensure that all head supports are positioned correctly before sitting in, or operating, Model 3 to minimize the risk of severe injury or death in the event of a collision.

Raising/Lowering the Rear Center Head Support

To raise the head support, lift it until you hear it click into place. Push down on the head support to ensure that it is secure.

To lower the head support, press and hold the button on the outer base of the right post and press the head support down.



Removing/Installing a Head Support

To remove the head support:

1. Raise the head support as described above.
2. Press and hold the button on the outer base of the right post.
3. Insert a short, flat object (such as a small flat-head screwdriver) into the opening on the inside base of the left post and pull the head support upward.



To re-install the head support:

1. With the front of the head support facing forward, insert both posts into the corresponding holes on the seat back.
2. Press down on the head support until it clicks into place.
3. Pull up on the head support to ensure that it is secure.



WARNING: Ensure that the head support is correctly installed before seating an occupant. Failure to do so increases the risk of injury or death if a collision occurs.

Seat Heaters

The front and rear seats contain heating pads that operate at three levels from 3 (highest) to 1 (lowest). To operate the seat heaters, see [Climate Controls](#) on page 154.



WARNING: To avoid burns resulting from prolonged use, individuals who have peripheral neuropathy, or whose capacity to feel pain is limited because of diabetes, age, neurological injury, or some other condition, should exercise caution when using the climate control system and seat heaters.

Seat Covers



WARNING: Do not use seat covers in Model 3. Doing so could restrict deployment of the seat-mounted side air bags if a collision occurs. Also, if the vehicle is equipped with an occupant detection system that is used to determine the status of the passenger front airbag, seat covers may interfere with this system.



Wearing Seat Belts

Using seat belts and child safety seats is the most effective way to protect occupants if a collision occurs. Therefore, wearing a seat belt is required by law in most jurisdictions.

Both the driver and passenger seats are equipped with three-point inertia reel seat belts. Inertia reel belts are automatically tensioned to allow occupants to move comfortably during normal driving conditions.

The seat belt reel automatically locks to prevent movement of occupants if Model 3 experiences a force associated with hard acceleration, braking, cornering, or an impact in a collision.

Seat Belt Reminders



The seat belt reminder on the touchscreen alerts you if a seat belt for an occupied driver or passenger seat is unbuckled. If the belt remains unbuckled, the reminder flashes and an intermittent chime sounds. If all occupants are buckled up and the reminder stays on, re-buckle seat belts to ensure they are correctly latched. Also remove any heavy objects (such as a briefcase) from an unoccupied seat. If the reminder light continues to stay on, contact Tesla.

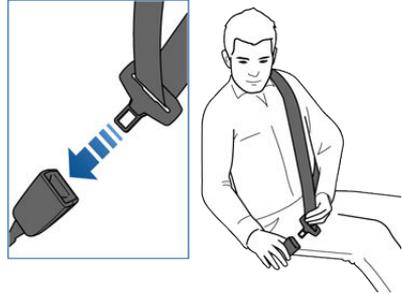


WARNING: Seat belts must be worn by passengers in all seating positions.

To Fasten a Belt

1. Ensure correct positioning of the seat (see [Correct Driving Position on page 30](#)).
2. Draw the belt out smoothly, ensuring the belt lays flat across the pelvis, chest and mid-point of your collar bone, between the neck and shoulder.

3. Insert the latch plate into the buckle and press together until you hear a click indicating it is locked in place.

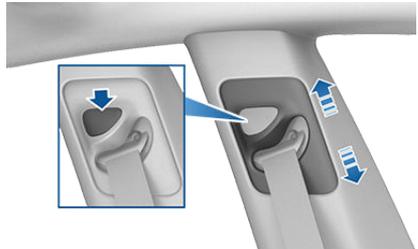


4. Pull the belt to check that it is securely fastened.
5. Pull the diagonal part of the belt toward the reel to remove excess slack.

To Adjust the Shoulder Anchor Height

Model 3 is equipped with an adjustable shoulder anchor for each front seat to ensure that the seat belt is positioned correctly. The seat belt should lay flat across the mid-point of your collar bone while in the correct driving position (see [Correct Driving Position on page 30](#)). Adjust the height of the shoulder anchor if the seat belt is not positioned correctly:

1. Press and hold the button on the shoulder anchor to release the locking mechanism.
2. While holding the button, move the shoulder anchor up or down as necessary so that the seat belt is positioned correctly.





3. Release the button on the shoulder anchor so that it locks into position.
4. Without pressing the button, pull on the seat belt webbing and attempt to move the shoulder anchor downwards to check that it is locked into position.



WARNING: Ensure that the seat belt is positioned correctly and that the shoulder anchor is locked into position before driving. Riding in a moving vehicle with the seat belt positioned incorrectly or with the shoulder anchor not locked into position can reduce the effectiveness of the seat belt in a collision.

To Release a Belt

Hold the belt near the buckle to prevent the belt from retracting too quickly, then press the button on the buckle. The belt retracts automatically. Ensure there is no obstruction that prevents the belt from fully retracting. The belt should not hang loose. If a seat belt does not fully retract, contact Tesla.

Wearing Seat Belts When Pregnant

Do not put the lap or shoulder sections of the seat belt over the abdominal area. Wear the lap section of the belt as low as possible across the hips, not the waist. Position the shoulder portion of the belt between the breasts and to the side of the abdomen. Consult your doctor for specific guidance.

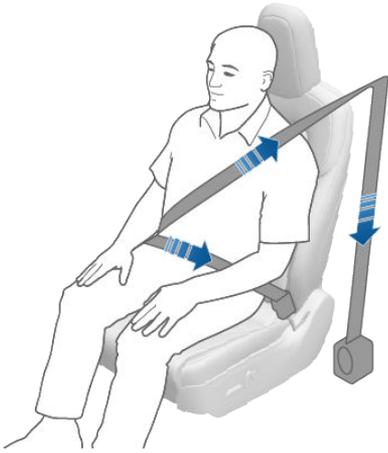


WARNING: Never place anything between you and the seat belt to cushion the impact in the event of a collision.

Seat Belt Pre-tensioners

The front seat belts are equipped with pre-tensioners that work in conjunction with the airbags in a severe frontal collision. The pre-tensioners automatically retract both the seat belt anchor and the seat belt webbing, reducing slack in both the lap and diagonal portions of the belts, resulting in reduced forward movement of the occupant.

The outboard seats are equipped with shoulder pre-tensioners to retract the seat belt webbing to reduce forward movement of the occupant.



If the pre-tensioners and airbags did not activate in an impact, this does not mean they malfunctioned. It usually means that the strength or type of force needed to activate them was not present.

WARNING: Once the seat belt pre-tensioners have been activated, they must be replaced. After any collision, have the airbags, seat belt pre-tensioners and any associated components checked and, if necessary, replaced.

Testing Seat Belts

To confirm that seat belts are operating correctly, perform these three simple checks on each seat belt.

1. With the seat belt fastened, give the webbing nearest the buckle a quick pull. The buckle should remain securely locked.
2. With the belt unfastened, unreel the webbing to its limit. Check that unreeling is free from snags, and visually check the webbing for wear. Allow the webbing to retract, checking that retraction is smooth and complete.
3. With the webbing half unreeled, hold the tongue plate and pull forward quickly. The mechanism should lock automatically and prevent further unreeling.

If a seat belt fails any of these tests, contact Tesla immediately.

For information about cleaning seat belts, see [Seat Belts](#) on page 210.

Seat Belt Warnings

- WARNING:** Seat belts should be worn by all occupants at all times, even if driving for a very short distance. Failure to do so increases the risk of injury or death if a collision occurs.
- WARNING:** Secure small children in a suitable child safety seat as described in the Child Safety Seat topic. Always follow the child safety seat manufacturer's instructions when installing.
- WARNING:** Ensure that all seat belts are worn correctly. An improperly worn seat belt increases the risk of injury or death if a collision occurs.
- WARNING:** Do not wear seat belts over hard, fragile or sharp items in clothing, such as pens, keys, eyeglasses, etc. The pressure from the seat belt on such items can cause injury.
- WARNING:** Seat belts should not be worn with any part of the strap twisted.
- WARNING:** Each seat belt assembly must be used by one occupant only. It is dangerous to put a seat belt around a child being carried on an occupant's lap.
- WARNING:** Seat belts that have been worn in a collision must be inspected or replaced by Tesla, even if damage to the assembly is not obvious.
- WARNING:** Seat belts that show signs of wear (such as fraying), or have been cut or damaged in any way, must be replaced by Tesla.
- WARNING:** Avoid contaminating a seat belt's components with any chemicals, liquids, grit, dirt or cleaning products. If a seat belt fails to retract or latch into the buckle, it must be replaced immediately. Contact Tesla.



WARNING: Do not make modifications or additions that can prevent a seat belt mechanism from taking up slack, or that can prevent a seat belt from being adjusted to remove slack. A slack belt greatly reduces occupant protection.



WARNING: Do not make modifications that can interfere with the operation of a seat belt, or that can cause a seat belt to become inoperable.



WARNING: When seat belts are not in use, they should be fully retracted and not hanging loose. If a seat belt does not fully retract, contact Tesla.



Passenger Front Airbag Must Be OFF

WARNING: If seating a child on the front passenger seat is permissible in your market region, never seat a child on the front passenger seat when the passenger front airbag is active. Always ensure this airbag is OFF (see [Passenger Front Airbag Status on page 54](#)).

Refer to the following label fitted to the sun visors:



When an infant or child is seated in the front passenger seat (even when the child is seated in a suitable child restraint system or booster seat), you must disable the passenger front airbag. If a collision occurs, the inflation of the airbag can cause serious injury or death, especially when using a rear-facing child restraint system.

To disable the passenger front airbag, touch **Controls > Safety & Security > Passenger Front Airbag** (see [Controlling the Passenger Front Airbag on page 54](#)).

WARNING: When you disable the passenger front airbag, remember to subsequently enable it when an adult occupant is seated in the front passenger seat.

The status of the passenger front airbag displays in the top corner of the touchscreen. You can also touch this status icon to disable and enable the passenger front airbag:

	Before driving with a child seat on the front passenger seat, always double-check the status of the passenger front airbag to confirm that it is OFF.
	To protect an adult subsequently occupying the front passenger seat, remember to turn the passenger front airbag back ON.

WARNING: It is the driver's responsibility to confirm that the passenger front airbag is OFF when a child is seated in the front passenger seat.

WARNING: If the passenger front airbag is ON, even if you have turned it OFF (or vice versa), contact Tesla immediately.

Suitability and Fitting of Child Restraint Systems

All Model 3 seat belts are designed for adults. When seating infants and children, you must:

- Use a child restraint system appropriate for the child's age, weight, or size (see [Recommended Child Restraint Systems on page 39](#)).



- Use a child restraint system that is appropriate for the specific seating position in Model 3. Each passenger seat in Model 3 supports a broad range of options. For details on what type of child restraint system can be used in each passenger seat, see [Front Passenger Seat on page 41](#), [Rear Outboard Seats on page 43](#), and [Rear Center Seat on page 45](#).
- Properly install the child restraint system by following the manufacturer's instructions (see [Installing Belt-based Child Restraint Systems on page 46](#) and [Installing ISOFIX/i-Size Child Restraint Systems on page 46](#) for general guidelines).

Recommended Child Restraint Systems

In the table below, Tesla provides recommended child restraint systems based a child's weight group (as defined in ECE R44 "Uniform Provisions Concerning Restraining Devices for Child Occupants"). Although all weight groups can occupy any passenger seat in Model 3, the type of child restraint system that can be used in each seat can vary. For example, only belt-based child restraint systems (as defined in [Two Installation Methods on page 40](#)) can be used in the rear center passenger seat.

Weight Group	Child Weight	Tesla Recommended
Group 0	Up to 10 kg	No recommendation
Group 0+	Up to 13 kg	Maxi-Cosi CabrioFix with Easybase2, or FamilyFix
Group I	9 to 18 kg	Britax Römer DUO PLUS
Group II	15 to 25 kg	Britax KIDFIX ² R
Group III	22 to 36 kg	Peg Perego Viaggio 2-3 Shuttle base



Seating Larger Children

If a child is too large to fit into a child restraint system, but too small to be safely secured using the vehicle's seat belts, use a booster seat appropriate for the child's age and size. For children needing a booster seat, Tesla recommends using the base of the Peg Perego Viaggio 2-3 Shuttle. When using and installing a booster seat, carefully follow the instructions provided by the manufacturer.

Two Installation Methods

NOTE: Always install child restraint systems by following the instructions provided by the manufacturer of the child restraint system.

Among many other variants, there are two general types of child restraint systems based on how they are secured in the seat:

- Belt-based - secured using the vehicle's seat belts (see [Installing Belt-based Child Restraint Systems on page 46](#)).
- ISOFIX/i-Size - secured to anchor bars built into the vehicle's seats (see [Installing ISOFIX/i-Size Child Restraint Systems on page 46](#)).

Some child restraint systems can be installed using either method. Refer to the instructions provided by the manufacturer of the child restraint system to determine which installation method to use and for detailed installation instructions.

In Model 3, belt-based child restraints can be installed in any passenger seat and ISOFIX/i-Size systems can be installed in either of the rear outboard seats. Specific details about the type of child restraint system that can be used in each seat is provided next.

NOTE: ISOFIX and i-Size are international standards for integrated anchors used in passenger vehicles to attach child safety seats.



WARNING: Do not use ISOFIX/i-Size anchors with child restraint system or booster seats that have an integral safety belt where the combined weight of the child plus the child restraint system exceeds 33 kg.



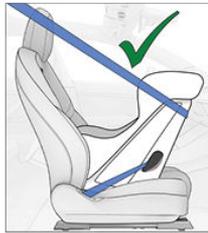
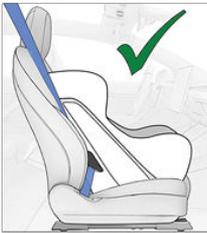
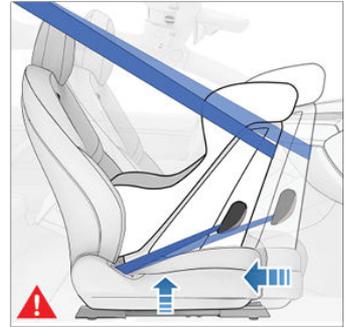
Front Passenger Seat



WARNING: Never seat a child on the front passenger seat when the passenger front airbag is active. Doing so can cause serious injury or death. See [Airbags](#) on page 52.



WARNING: To accommodate a belt-based child restraint system in the front seat, you must raise the seat upward to the mid-height position (approximately 3 cm).



When the passenger front airbag is disabled and the seat bottom is raised half way up, infants and children can occupy the front passenger seat using the following types of belt-based child restraint systems:

- Forward-facing, Universal.
- Rear-facing, Universal.



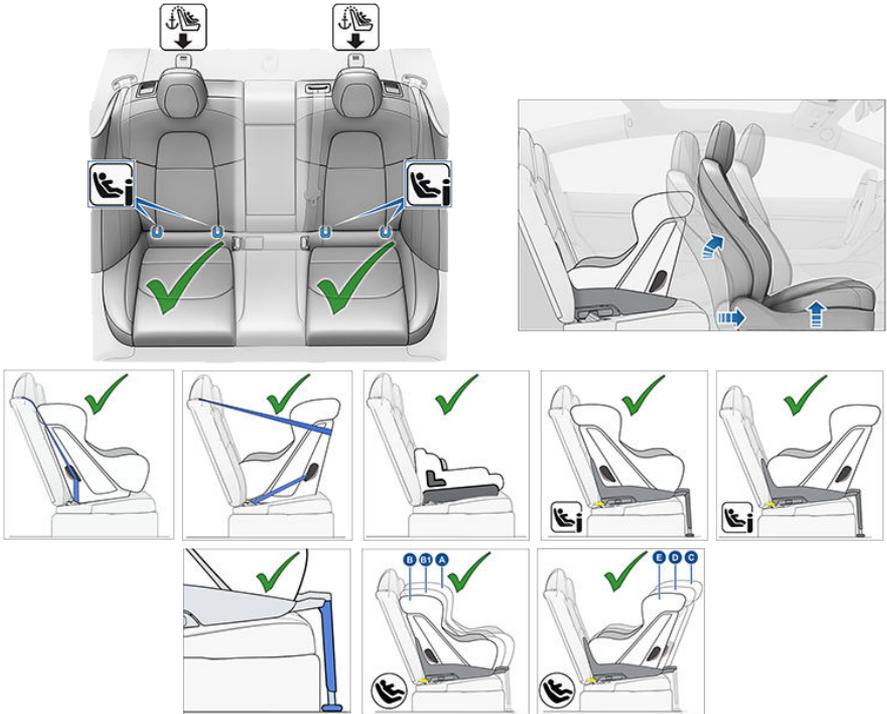
Child Safety Seats

NOTE: The front passenger seat is not equipped with lower anchor bars to support the installation of ISOFIX/i-Size child restraint systems.

Weight Group	Child Weight	Passenger Front Airbag ON	Passenger Front Airbag OFF
Group 0	Up to 10 kg	Not Allowed	Allowed
Group 0+	Up to 13 kg	Not Allowed	Allowed
Group I	9 to 18 kg	Not Allowed	Allowed
Group II	15 to 25 kg	Not Allowed	Allowed
Group III	22 to 36 kg	Not Allowed	Allowed



Rear Outboard Seats



Infants and children can occupy a rear outboard seat using either belt-based, or ISOFIX (IU)//i-Size (i-U) child restraint systems.

NOTE: The rear seats support the use of upper tether straps (see [Attaching Upper Tether Straps](#) on page 47).

Larger children can also occupy a rear outboard seat using a booster seat, either attached to the lower anchor bars or belted, as described in the instructions provided by the child restraint system manufacturer.

The rear outboard seats support the use of the following ISOFIX size classes:

- Size class A, B, and B1 forward-facing.
- Size class C, D and E rear-facing.

NOTE: To accommodate large rear-facing ISOFIX child restraint systems (size class C), you may need to move the corresponding front seat forward to the mid-track position (up to 13 cm forward of the rearmost position), raise the seat upward (2 cm from its lowest position), and angle the seat back as needed.



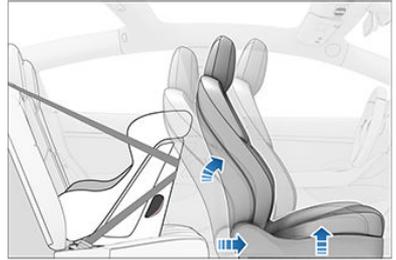
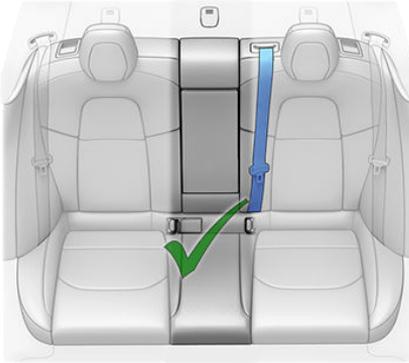
Child Safety Seats



WARNING: Do not use **Easy Entry** (as described in [Driver Profiles on page 57](#)) to automatically move the driver's seat to the full rearward position if a child safety seat is installed on a rear seat behind the driver's seat. With reduced clearance, the movement of the seat may impact a child's legs, cause injury, or dislodge the seat.



Rear Center Seat



Infants can occupy the rear center seat using a rear-facing belt-based child restraint system. Children can occupy the rear center seat using either a rear-facing or a forward-facing belt-based child restraint system.

NOTE: The rear center seat is not equipped with lower anchor bars to support the installation of ISOFIX/i-Size child restraint systems.

Larger children can also occupy a rear center seat using a booster seat, installed as described in the instructions provided by the manufacturer of the child restraint system.



Installing Belt-based Child Restraint Systems

Always follow the detailed instructions provided by the manufacturer of the child restraint system. Follow these general guidelines for belt-based child restraint systems:

- Ensure that the child restraint system is appropriate for the weight, height, and age of the child.
- Avoid dressing the child in bulky clothing.
- Do not place any objects between the child and the child restraint system.
- Adjust the child restraint system's harnesses for every child, every trip.

1. Place the child restraint system in the appropriate seat and fully extend the seat belt. Route and buckle the seat belt in accordance with the instructions provided by the manufacturer of the child restraint system.



2. Allow the seat belt to retract, and remove all slack in the seat belt while firmly pushing the child restraint system into the vehicle's seat.

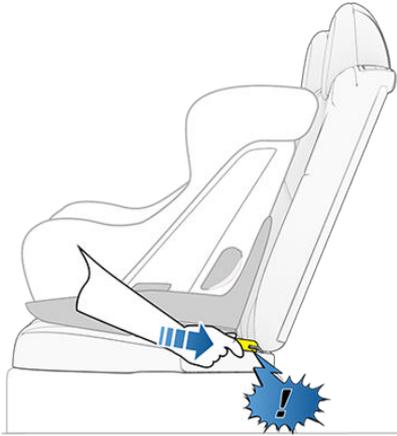
3. Attach the upper tether strap(s), as required by the manufacturer of the child restraint system (see [Attaching Upper Tether Straps](#) on page 47).

Installing ISOFIX/i-Size Child Restraint Systems

Model 3's rear outboard seating positions are equipped with ISOFIX/i-Size anchor bars. These anchor bars are located between the seat's cushion and back rest. The exact location of each anchor bar is identified by a marking (illustrated below) located on the seat back, directly above its associated anchor bars.



To install an ISOFIX/i-Size child restraint system, carefully read and follow the instructions provided by the manufacturer of the child restraint system. These instructions describe how to slide the child restraint system onto the seat's anchor bars until you hear it "click" into place. You may need to push the child restraint system firmly against the seat back to ensure it fits snugly.



Before seating a child, ensure that the child restraint system is securely installed. Grasp the front of the child restraint system with one hand on each side, and attempt to:

- Twist the child restraint system from side to side.
- Pull the child restraint system away from the seat.

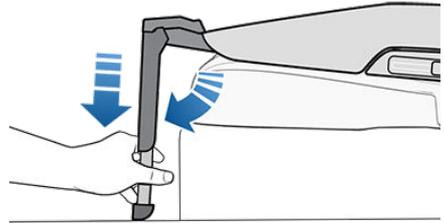
If the child restraint system rotates or moves away from the seat, both latches are not fully engaged onto the seat's anchor bars. You must reinstall it and try again. It is critical that both latches on the child restraint system are fully engaged.



WARNING: Do not use ISOFIX/i-Size anchors with child restraint system or booster seats that have an integral safety belt where the combined weight of the child plus the child restraint system exceeds 33 kg.

Safety Leg

All passenger seats Model 3 support the use of a child restraint system with a safety leg. If the child restraint system is equipped with a leg, extend the leg as described in the instructions provided by the manufacturer of the child restraint system.

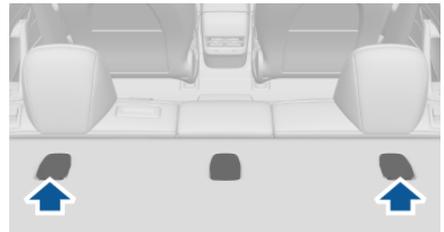


Attaching Upper Tether Straps

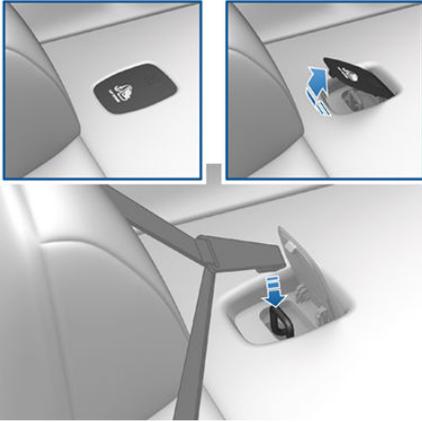
Model 3's rear seats support the use of upper tether straps. When the instructions provided by the manufacturer of the child restraint system include attaching an upper tether strap, attach its hook to the anchor point located behind the associated seat.

NOTE: Tighten upper tether straps according to the instructions provided by the manufacturer of the child restraint system.

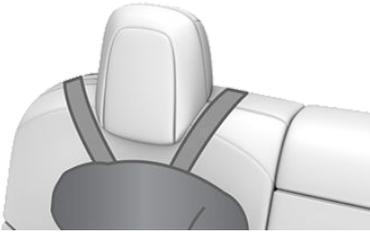
The anchor points for tether straps are located on the shelf behind the rear seats.



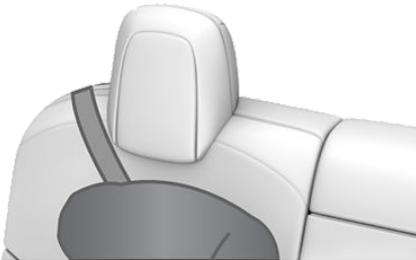
To access an anchor point, press down on the back of its cover.



For dual-strap tethers, position a strap on each side of the head support.



For single-strap tethers on the outboard seats, run the strap over the outside-facing side of the head support—in other words, the same side of the head support as the seat belt retraction mechanism.





Technical Information

ECE 16-07 Annex 17, Appendix 3, Table 1

	Seat Position Number (see below)				
	1 and 3 Pass Airbag OFF	1 and 3 Pass Airbag ON	4	5	6
Weight Groups Allowed	0, 0+, I, II, III	n/a	0, 0+, I, II, III	0, 0+, I, II, III	0, 0+, I, II, III
Suitable for universal belted?	Yes (Note 1)	No	Yes	Yes	Yes
Suitable for i-Size?	No	No	Yes	No	Yes
Suitable for lateral (L1/L2)?	No	No	No	No	No
Largest suitable rearward-facing ISOFIX (R1/R2X/R2/R3).	No	No	R3 (Note 2)	No	R3 (Note 2)
Largest suitable forward-facing ISOFIX (F1/F2X/F2/F3).	No	No	F3	No	F3
Largest suitable booster seat (B2/B3).	B2	No	B3	B3	B3
Suitable for safety leg	Yes	No	Yes	Yes	Yes

Note 1: To accommodate a belt-based child restraint system (CRS) in the front seat, you must raise the seat upward to the mid-height position (-3 cm) and rearward to allow for room between the CRS and the dashboard.

Note 2: To accommodate large ISOFIX child restraint systems (size class C), you may need to move the corresponding front seat forward to the mid-track position (up to 13 cm forward of the rearmost position), raise the seat upward (3 cm from its lowest position), and angle the seat back to 15 degrees (or 10 degrees rearward from its forward-most position).

Note 3: Adult safety belt buckles are not located laterally between ISOFIX anchor bars in any given seat.

Summary of Seat Position Numbers

Seat Position	Location in Vehicle
1	Front Left (RHD vehicles only)



Child Safety Seats

Seat Position	Location in Vehicle
2	Front Center - not applicable to Model 3
3	Front Right (LHD vehicles only)
4	Rear Row Left
5	Rear Row Center
6	Rear Row Right



Child Restraint System Warnings



WARNING: Never seat a child in a child restraint system or a booster seat on the front passenger seat when the passenger front airbag is active. Doing so can cause serious injury or death.



WARNING: Never use a rearward facing child restraint system on a seat protected by an active passenger front airbag. Doing so can cause serious injury or death. Refer to the warning label located on the sun visor.



WARNING: Some child restraint systems are designed to be secured in vehicle seats by lap belts or the lap belt portion of a lap-shoulder belt. Children could be endangered in a crash if their child restraint systems are not properly secured in the vehicle.



WARNING: Do not use a forward-facing child restraint system until your child weighs over 9 kg and can sit independently. Up to the age of two, a child's spine and neck are not sufficiently developed to avoid injury in a frontal impact.



WARNING: Do not allow a baby or infant to be held on a lap. All children should be restrained in an appropriate child restraint system at all times.



WARNING: To ensure children are safely seated, follow all instructions provided in this document and by the manufacturer of the child restraint system.



WARNING: Children should ride in a rear-facing child restraint system using the seat's integrated 5-point harness for as long as possible until they reach the maximum size or weight limit of the rear-facing child restraint system.



WARNING: When seating larger children, make sure the child's head is supported and the child's seat belt is properly adjusted and fastened. The shoulder portion of the belt must be away from the face and neck, and the lap portion must not be over the stomach.



WARNING: Never attach two child restraint systems to one anchor point. In a collision, one anchor point may be incapable of securing both seats.



WARNING: Child restraint anchor bars are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.



WARNING: Always check harnesses and tether straps for damage and wear.



WARNING: Never leave a child unattended, even if the child is secured in a child restraint system.



WARNING: Never use a child restraint system that has been involved in a collision. Discard the seat and have it replaced as described in the child restraint system manufacturer's instructions.

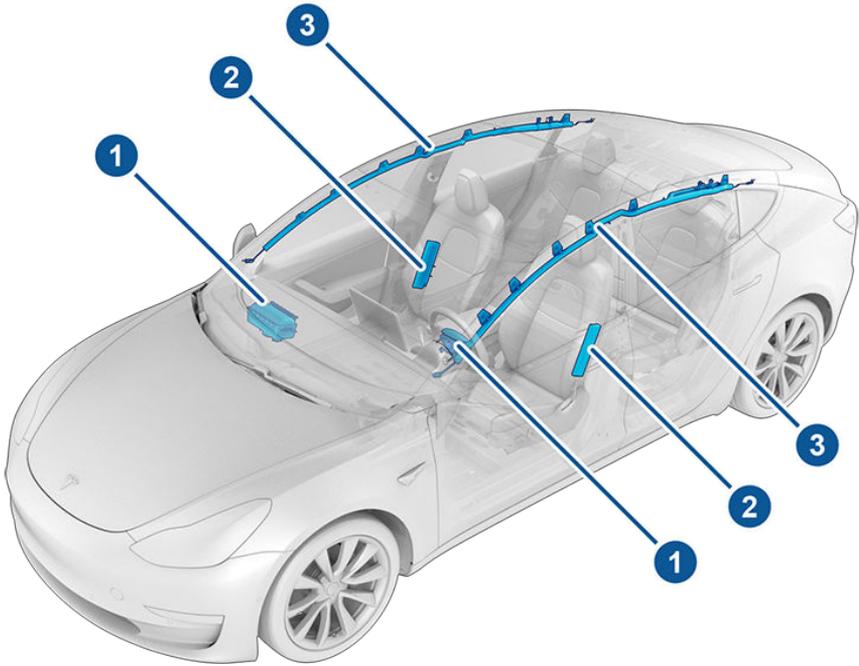


Location of Airbags

Airbags are located in the approximate areas shown below. Airbag warning information is printed on the sun visors.

Model 3 is equipped with an airbag and lap/shoulder belt at both front seating positions. The airbag is a supplemental restraint at those seating positions. All occupants, including the driver, should always wear their seat belts whether or not an airbag is also provided at their seating position to minimize the risk of severe injury or death in the event of a crash.

NOTE: On RHD (Right Hand Drive) vehicles, the locations of the passenger and driver airbags are reversed.



1. Front airbags
2. Seat-mounted side airbags
3. Curtain airbags



How Airbags Work

Airbags inflate when sensors detect an impact that exceeds deployment thresholds. These thresholds are designed to predict the severity of a crash in time for the airbags to help protect the vehicle's occupants. Airbags inflate instantly with considerable force accompanied by a loud noise. The inflated bag, together with the seat belts, limits movement of occupants to reduce the risk of injury.

Front airbags are not ordinarily designed to inflate in rear collisions, rollovers, side collisions and when braking heavily or driving over bumps and potholes. Likewise, front airbags may not inflate in all frontal collisions, such as minor front collisions, underride collisions, or minor impacts with narrow objects (such as posts or poles). Significant superficial damage can occur to the vehicle without the airbags inflating and, conversely, a relatively small amount of structural damage can cause airbags to inflate. Therefore, the external appearance of the vehicle after a collision does not represent whether or not the front airbags should have inflated.



WARNING: Before modifying your vehicle to accommodate a person with disabilities in a way that may affect the airbag system, contact Tesla.

Types of Airbags

Model 3 has the following types of airbags:

- **Front airbags:** The front airbags are designed to reduce injuries if larger children or adults are riding in the front seats. Follow all warnings and instructions related to seating a child on the front passenger seat (if permitted in your market region). See [Child Safety Seats on page 38](#).
- **Seat-mounted side airbags:** A seat-mounted side airbag in the front seats helps protect the pelvis and the thorax region of the torso. The seat-mounted side airbags on both the impacted and non-impacted side of the vehicle will inflate in the event of severe side impact or severe offset frontal impact.
- **Curtain airbags:** Curtain airbags help protect the head. Curtain airbags on both the impacted and non-impacted side of the vehicle will inflate only if a severe side impact occurs, or if the vehicle rolls over.



Passenger Front Airbag Status

The status of the passenger front airbag displays in the top corner of the touchscreen:

	Before driving with a child seat on the front passenger seat (if legally permitted in your market region), always double-check the status of the passenger front airbag to confirm that it is OFF. When the passenger front airbag is OFF, it will not inflate when a collision occurs. This indicator also displays when the seat is unoccupied.
	To protect an adult occupying the front passenger seat, ensure the passenger front airbag is ON. When the passenger front airbag is ON, it may inflate when a collision occurs.



WARNING: If seating a child in the front passenger seat is legally permissible in your market region, it is the driver's responsibility to ensure that the passenger front airbag is OFF. Never seat a child in the front passenger seat with an active airbag, even if using a child safety seat or booster seat. DEATH or SERIOUS INJURY to the child can occur.

Controlling the Passenger Front Airbag

When a child is seated in the front passenger seat (even when the child is seated in a child safety seat or booster seat), **you must disable the passenger front airbag** to prevent it from injuring the child if a collision occurs. Touch **Controls > Safety & Security > Passenger Front Airbag**, and before driving, ensure the passenger airbag status on the top of the touchscreen indicates that the airbag is off (see [Passenger Front Airbag Status on page 54](#)).

NOTE: Model 3 has a capacitive touchscreen and may not respond to your touch if you are wearing standard gloves. If the touchscreen is not responding, remove gloves or wear gloves with conductive fingertips for use with capacitive touchscreens.



WARNING: If seating a child in the front passenger seat is legally permissible in your market region, never seat a child in a child safety seat or a booster seat on the front passenger seat when the airbag is active. Doing so can cause serious injury or death.



WARNING: If the passenger front airbag does not appear to be functioning (for example, if the airbag is on, even if you have turned it off, or vice versa), do not seat a passenger in the front seat. Contact Tesla immediately.



Inflation Effects



WARNING: When airbags inflate, a fine powder is released. This powder can irritate the skin and should be thoroughly flushed from the eyes and from any cuts or abrasions.

After inflation, the airbags deflate to provide a gradual cushioning effect for the occupants and to ensure the driver's forward vision is not obscured.

If airbags have inflated, or if your vehicle has been in a collision, your vehicle requires servicing before it will power up. In addition, your airbags, seat belt pre-tensioners and any associated components must be checked, and if necessary, replaced. Contact Tesla Service immediately.

In a collision, in addition to the airbags inflating:

- eCall automatically contacts emergency responders, provided the cellular signal is adequate and services are available in your region (see [eCall on page 234](#)).
- Doors unlock.
- Hazard warning lights turn on.
- Interior lights turn on.
- High voltage is disabled.

NOTE: In some collisions, even if airbags did not inflate, high voltage may be disabled and you will be unable to power up and drive. Contact Tesla Service immediately.

Airbag Warning Indicator



The airbag indicator on the touchscreen remains lit if the airbag system is malfunctioning. The only time this indicator should light up is briefly when Model 3 first powers up, in which case it turns off within a few seconds. If it remains lit, contact Tesla immediately and do not drive.

Airbag Warnings



WARNING: All occupants, including the driver, should always wear their seat belts, whether or not an airbag is also provided at their seating position, to minimize the risk of severe injury or death in the event of a collision.



WARNING: Front seat occupants should not place their arms over the airbag module, as an inflating airbag can cause fractures or other injuries.



WARNING: Do not use seat covers on Model 3. Doing so could restrict deployment of the seat-mounted side air bags if a collision occurs. It can also reduce the accuracy of the occupant detection system, if equipped.



WARNING: Airbags inflate with considerable speed and force, which can cause injury. To limit injuries, ensure that occupants are wearing seat belts and are correctly seated, with the seat positioned as far back as possible.



WARNING: Children should not be seated on the front passenger seat unless permitted by regulations in your market region. Follow all regulations in your region for the appropriate way to seat a child based on the child's weight, size, and age. The safest place to seat infants and young children is in a rear seating position. Seating an infant or child in a rear-facing child restraint system on a seat equipped with an operational airbag can cause serious injury or death.



WARNING: Do not use a rear-facing child safety seat on a seat with an operational airbag in front of it. Doing so can cause injury or death if the airbag inflates.



WARNING: To ensure correct inflation of the side airbags, maintain an unobstructed gap between an occupant's torso and the side of Model 3.



WARNING: Passengers shouldn't lean their heads against doors. Doing so can cause injury if a curtain airbag inflates.



Airbags



WARNING: Do not allow passengers to obstruct the operation of an airbag by placing feet, knees or any other part of the body on or near an airbag.



WARNING: Do not attach or place objects on or near the front airbags, the side of the front seats, the headliner at the side of the vehicle, or any other airbag cover that could interfere with inflation of an airbag. Objects can cause serious injury if the vehicle is in a collision severe enough to cause the airbag to inflate.



WARNING: Following inflation, some airbag components are hot. Do not touch until they have cooled.



Creating a Driver Profile

When you first adjust the driver's seat, steering wheel, or driver's side mirror, the touchscreen prompts you to create a driver profile to save these adjustments. Your profile also saves some of the preferences you make using the touchscreen's **Controls** window.



To add a new driver profile, touch the driver profile icon at the top of the touchscreen. Then touch **Add New Driver**, type the driver's name and touch **Create Profile**. Follow the onscreen instructions to save the seating position to the driver profile. You can also check the **Use Easy Entry** checkbox if you want to save (or use existing) Easy Entry settings (described below) in which the driver's seat and the steering wheel are automatically adjusted to make it easy to enter and exit Model 3.

If you change the position of the steering wheel, driver's seat, or driver's side mirror after you have saved or chosen a driver profile, the touchscreen prompts you to save the new position or restore the previously saved position (other settings are automatically saved). To change a setting without saving or restoring, just ignore the prompt.

To adjust Model 3 based on a driver's profile, touch the driver profile icon and choose the driver name. The saved adjustments are automatically made.

NOTE: Valet mode is a built-in driver profile used to limit speed and restrict access to some Model 3 features (see [Valet Mode on page 58](#)).

NOTE: To stop automatic adjustments that are in process based on a driver's profile, touch Stop on the Driver Profile dropdown menu. Automatic adjustments also stop if you manually adjust a seat, mirror or the steering wheel.

Easy Entry

You can define an Easy Entry setting that moves the steering wheel and driver's seat to make it easy to enter and exit Model 3. Any driver can use the Easy Entry setting by associating it with their driver's profile. When the Easy Entry setting is associated with a driver's profile, the steering wheel and driver's seat automatically adjust when the park gear is engaged and the driver's seat belt is unbuckled, allowing an easy exit from the vehicle. When returning to the vehicle and stepping on the brake pedal, settings automatically adjust back to the settings used by the most recent driver profile (or based on the key if it's linked to a driver profile).

To use **Easy Entry** with a driver profile, ensure the **Use Easy Entry** box is checked.



WARNING: Never use Easy Entry to move the driver's seat to the full rearward position when a child safety seat is installed on a rear seat located behind the driver's seat. With reduced clearance, the movement of the seat may impact a child's legs, cause injury, or dislodge the seat.

Restoring a Driver's Profile



To adjust Model 3 based on a driver's profile, touch the driver profile icon on the touchscreen's status bar. Then choose the driver and Model 3 is adjusted based on the settings that have been saved to the chosen driver profile.



Saved Settings

A subset of the settings that you choose from the Controls window to customize your Model 3 are also saved to your driver's profile. The settings that are associated with driver profiles may vary depending on the version of software currently installed on your Model 3.

Linking a Driver Profile to a Key

You can link a driver profile to a key (or keys) to allow Model 3 to automatically select the correct driver profile when the linked key is detected as you approach the vehicle and open the driver's door. To link a driver profile to a key, first ensure you are using your desired driver profile. Navigate to **Controls > Locks** and touch the **+** icon. You can add an authenticated phone, key card, or key fob by following the onscreen instructions. When finished pairing, touch the driver icon to link the key to the desired driver profile. The name of the driver profile will appear under the key to show that it is linked.

NOTE: Model 3 can support up to 19 linked keys including authenticated phones, key cards, and up to four key fobs. However, Model 3 only supports up to 10 driver profiles. You can link multiple keys to a driver profile, but you cannot link multiple driver profiles to a single key.

Valet Mode

When Model 3 is in Valet mode, the following restrictions apply:

- Speed is limited to 113 km/h.
- Maximum acceleration and power are limited.
- Front trunk and glovebox are locked.
- Home and Work locations are not available in the navigation system.
- Voice commands are disabled.
- Autopilot convenience features are disabled.
- The Allow Mobile Access setting is disabled.

- HomeLink (if applicable in your market region) is not accessible.
- Driver Profiles are not accessible.
- The touchscreen does not display the list of keys that can access Model 3 (see [Managing Keys on page 14](#)).
- Wi-Fi and Bluetooth are disabled. When Model 3 is in Valet mode, you cannot pair new Bluetooth devices or view or delete existing paired devices.

NOTE: If a Bluetooth paired device or a known Wi-Fi network is within operating range (approximately 9 meters) of Model 3 in Valet mode, Model 3 will connect to it.

Starting Valet Mode

With Model 3 in Park, touch the driver profile icon on the top of the touchscreen, then touch **Valet Mode**.

The first time you enter Valet mode, you will be prompted to create a 4-digit PIN that you will use to cancel Valet mode.

When Valet mode is active, the touchscreen displays the word **Valet** above the driving speed and the Valet mode driver profile displays on the touchscreen.

You can also use the mobile app to start and cancel Valet mode (provided Model 3 is in Park). When using the mobile app, you do not need to enter a PIN because you are already required to log into the app using your Tesla Account credentials.

NOTE: If the **PIN to Drive** setting is enabled (see [PIN to Drive on page 176](#)), you must enter the driving PIN before you can define or enter a Valet PIN. Once in Valet mode, Model 3 can be driven without the valet needing to enter the driving PIN.

NOTE: The **PIN to Drive** setting is not available when Valet mode is active.

If you forget your valet PIN, reset it from inside Model 3 by entering your Tesla Account credentials (which also cancels Valet mode). You can also reset your PIN using the mobile app.



WARNING: Do not use Valet mode when towing a trailer. The torque limitations of Valet mode can make it difficult for Model 3 to pull a trailer up a hill.

Canceling Valet Mode

With Model 3 in Park, touch the **Valet Mode** driver icon on the touchscreen's status bar, then enter your 4-digit PIN.

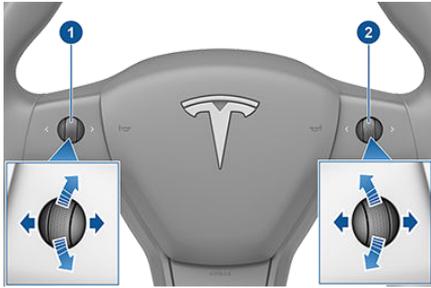
When you cancel Valet mode, all settings associated with the most recently used driver profile and climate control settings are restored, and all features are available.

NOTE: You do not need to enter a PIN to cancel Valet mode from the mobile app.



Scroll Buttons

A scroll button is located on each side of the steering wheel. Use your thumb to press this button to the right or left. You can also press the button or roll it up or down.



1. Use the left scroll button to:

- Control the volume. Press the scroll button to mute/unmute the volume, roll the scroll button up to increase the volume, or down to decrease the volume.

NOTE: The scroll button adjusts the volume for media, navigation instructions or phone calls based on what is currently in use. As you adjust volume, the touchscreen displays the volume level and whether you are adjusting volume for media, navigation or phone calls.

- Push the scroll button to the right to go to the next song, station, or Favorite (depending on what's playing). Push the scroll button to the left to return to the previous selection.

- Adjust the position of the exterior mirrors (see [Adjusting Exterior Mirrors on page 62](#)).

- Adjust the position of the steering wheel (see [Adjusting Steering Wheel Position on page 60](#)).

- Adjust the angle of the headlights (see [Headlight Adjustments on page 70](#)).

2. Use the right scroll button to:

- Speak a voice command. Press the button to initiate a voice command (see [Using Voice Commands on page 175](#)).

- Adjust your set speed and the distance you want to maintain from a vehicle traveling ahead of you (see [Traffic-Aware Cruise Control on page 111](#)).

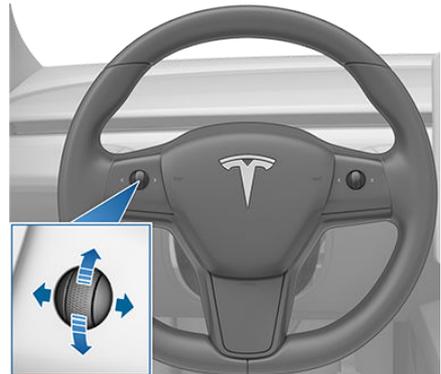
NOTE: The arrows associated with the scroll buttons are backlit in low ambient lighting conditions. To turn this backlighting on or off, touch **Controls > Lights > Steering Wheel Lights**.

To restart the touchscreen, press and hold both scroll buttons until after the touchscreen turns black. See [Restarting the Touchscreen on page 64](#).

Adjusting Steering Wheel Position

To adjust the steering wheel, touch **Controls > Quick Controls > Adjustments > Steering Wheel**. Use the left scroll buttons on the steering wheel to move the steering wheel to the desired position:

- To adjust the height/tilt angle of the steering wheel, roll the left scroll button up or down.
- To move the steering wheel closer to you, or further away from you, press the left scroll button to the left or right.



WARNING: Do not make steering wheel adjustments while driving.



Adjusting Steering Effort

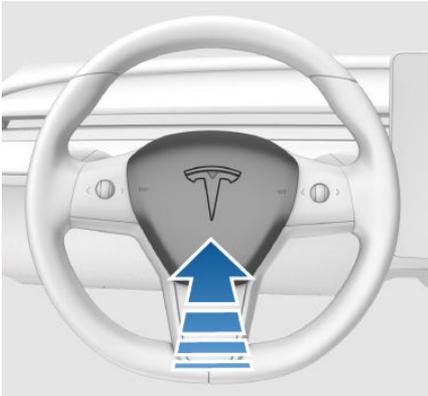
You can adjust the feel and sensitivity of the steering system to suit your personal preference:

1. On the touchscreen, touch **Controls** > **Driving** > **Steering Mode**.
2. Choose a steering option:
 - **Comfort** - Reduces the effort required to turn the wheel. In town, Model 3 feels easier to drive and park.
 - **Standard** - Tesla believes that this setting offers the best handling and response in all conditions.
 - **Sport** - Increases the effort required to turn the wheel. When driving at higher speeds, Model 3 feels more responsive.

The only way to really know which option you like best is to try them.

Horn

To sound the horn, press the center pad on the steering wheel.



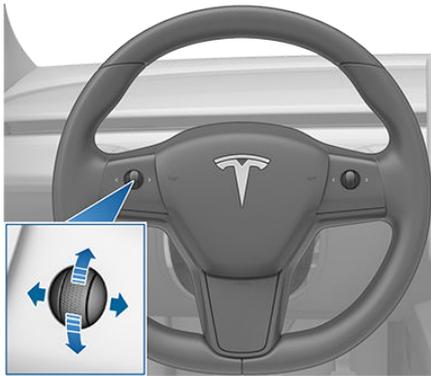


Adjusting Exterior Mirrors

Adjust the exterior mirrors by touching **Controls** > **Quick Controls** > **Mirrors**. You can choose which mirror you would like to adjust by selecting **Left** or **Right** on the touchscreen. Use the left scroll button on the steering wheel to adjust the mirror to its desired position:

NOTE: You can also press the left scroll button to change which mirror you are adjusting.

- To move the mirror up or down, roll the left scroll button up or down.
- To move the mirror inward or outward, press the left scroll button to the left or right.



Cars manufactured in the U.S.: When in the Drive or Neutral gear, the side mirrors automatically dim in low lighting conditions (for example, when driving at night). Due to market region or build date, this may not be available on some vehicles.

Both exterior mirrors have heaters that turn on and off with the rear window defroster.

You can fold the mirrors inward for parking in tight spaces by touching **Controls** > **Quick Controls** > **Fold**. The mirrors remain folded until your driving speed reaches 50 km/h, or until you touch **Fold** again to unfold the mirrors.

NOTE: See [Cold Weather Best Practices on page 104](#) for information to ensure your mirrors function properly in cold weather.

NOTE: You cannot fold a mirror if driving faster than 50 km/h.

Auto-Fold Mirrors Based on Location

Model 3 can automatically fold and unfold the side mirrors based on location, which saves you from having to manually position them each time you need to fold or unfold the mirrors when at a frequented place (such as narrow garages, tight parking spaces, etc.).

To set up, Model 3 must be driving at a low speed (less than 5 km/h) or stopped at the location you want your vehicle to remember. Go to **Controls** > **Quick Controls** > **Mirrors** > **Always Fold Mirrors at this Location**. Next time you approach the saved location, your mirrors fold and unfold within 7.5 meters of the specified location.

You can also integrate auto-folding mirrors with HomeLink (see [HomeLink Universal Transceiver on page 180](#)). To enable, go to **HomeLink** > **Auto-Fold Mirrors when Nearby**.



CAUTION: Mirrors may not automatically fold or unfold if you return to a saved location and are driving faster than 5 km/h.

Mirror Auto Tilt

Both exterior mirrors can automatically tilt downward when Model 3 is shifted into Reverse. When you shift back into Drive, the mirrors return to their normal (upward) position.

To turn this feature on or off, touch **Controls** > **Quick Controls** > **Mirrors** > **Mirror Auto Tilt**.

Mirror Auto Fold

Both exterior mirrors can automatically fold inward whenever you exit and lock Model 3. When you unlock Model 3, the exterior mirrors then automatically unfold.

To turn this feature on or off, touch **Controls** > **Quick Controls** > **Mirrors** > **Mirror Auto Fold**.

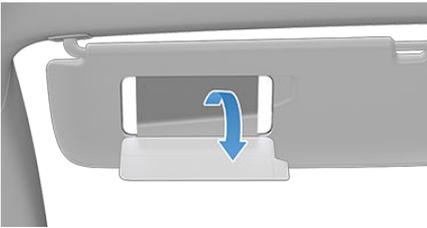


Rear View Mirror

The rear view mirror is adjusted manually. When in the Drive or Neutral gear, the rear view mirror automatically dims in low lighting conditions (for example, when driving at night or through a tunnel).

Vanity Mirrors

To expose and illuminate the vanity mirror, fold the sun visor downwards, then use the tab to lower the mirror cover. When you close the mirror cover, the light turns off.





Starting

When you open a door, Model 3 powers on and you can operate all controls.

To drive Model 3:

1. **PRESS THE BRAKE PEDAL** - Model 3 powers on and is ready to drive.
2. **SELECT A GEAR** - Move the gear lever all the way down for Drive and all the way up for Reverse. See [Shifting Gears on page 66](#).

NOTE: If the PIN to Drive feature is enabled (see [PIN to Drive on page 176](#)), you must also enter a valid PIN on the touchscreen before you can drive Model 3.

Everything you need to know when driving Model 3 displays on the touchscreen.

Drive Disabled - Requires Authentication

If Model 3 does not detect a key when you press the brake (an authenticated phone is not detected, or 30 seconds has passed since you used the key card), the touchscreen displays a message telling you that driving requires authentication.

If you see this message, place the key card behind the cup holders on the top of the center console where the RFID transmitter can read it. The 30 second authentication window restarts and you can start Model 3 by pressing the brake pedal.



A number of factors can affect whether Model 3 can detect an authenticated phone (for example, the phone's battery is low or dead and is no longer able to communicate using Bluetooth).

Always keep your authenticated phone and a key card with you. After driving, your authenticated phone or key card is needed to restart Model 3 after it powers off. And when you leave Model 3, you must bring your authenticated phone or key card with you to lock Model 3, either manually or automatically.

Powering Off

When you finish driving, shift into Park by pressing the button on the end of the gear selector. The parking brake automatically engages and all systems keep operating. When you leave Model 3 with your authenticated phone and key card, it powers off automatically, turning off the touchscreen.

Model 3 also powers off automatically after being in Park for 15 minutes, even if you are sitting in the driver's seat.

Although usually not needed, you can power off Model 3 while sitting in the driver's seat, provided the vehicle is not moving. Touch **Controls > Safety & Security > Power Off**. Model 3 automatically powers back on again if you press the brake pedal or touch the touchscreen.

NOTE: Model 3 automatically shifts into Park whenever it is determined that you are exiting the vehicle, even when you shift into Neutral before exiting. To keep Model 3 in Neutral, you will need to activate Transport Mode (see [Instructions for Transporters on page 235](#)).

Restarting the Touchscreen

If your touchscreen is unresponsive or demonstrates unusual behavior, you can restart it to potentially resolve the issue.



WARNING: Only restart the touchscreen while the vehicle is stopped and in Park. The car status display, safety warnings, backup camera, etc. will not be visible during the restart.

1. Shift into Park.
2. Hold down both scroll buttons on the steering wheel until the touchscreen turns black.



3. After a few seconds, the Tesla logo appears. Wait approximately 30 seconds for the touchscreen to restart. If the touchscreen is still unresponsive or demonstrating unusual behavior after a few minutes, try power cycling the vehicle. See [Power Cycling the Vehicle on page 65](#).

NOTE: Restarting the touchscreen using the scroll buttons does not power Model 3 off and on.

Power Cycling the Vehicle

If your vehicle demonstrates unusual behavior or a nondescript alert is present, you can try power cycling the vehicle to potentially resolve the issue.

1. Shift into Park.
2. On the touchscreen, touch **Controls** > **Safety & Security** > **Power Off**.
3. Wait for at least two minutes without interacting with the vehicle. Do not open the doors, touch the brake pedal, touch the touchscreen, etc.
4. After two minutes have passed, press the brake pedal or open the door to wake the vehicle.



Shifting Gears

When Model 3 is in Park, you must press the brake to shift to another gear.

Move the lever up or down to change gears.



If you try to shift into a gear that the current driving speed prohibits, a chime sounds and the gear does not change.

Reverse

Push the lever all the way up and release. You can only shift into Reverse when Model 3 is stopped or moving less than 8 km/h. If moving less than 1.6 km/h, you must press the brake pedal.

Neutral

Push the lever up or down to the first position and hold it there for more than 1 second to shift into Neutral. Neutral allows Model 3 to roll freely when you are not pressing the brake pedal.

Model 3 automatically shifts into Park when you leave the driver's seat. To stay in Neutral, use the touchscreen to engage Transport Mode (see [Instructions for Transporters on page 235](#)).

Drive

Push the lever all the way down and release. You can shift into Drive when Model 3 is stopped or moving less than 8 km/h in Reverse. If Model 3 is moving less than 1.6 km/h, you must press the brake to shift into Drive.

NOTE: When in Drive, push the lever all the way down and release to enable Traffic-Aware Cruise Control (see [Traffic-Aware Cruise Control on page 111](#)). Push the lever all the way down twice in quick succession to enable Autosteer (see [Autosteer on page 118](#)).

Park

Press the end of the gear selector while Model 3 is stopped. Whenever Model 3 is in Park, the parking brake is applied.



Model 3 automatically shifts into Park whenever you connect a charge cable or if two or more of the following conditions are met simultaneously while traveling slower than approximately 2 km/h:

- The driver's seat belt is unbuckled.
- The occupancy sensor in the driver's seat does not detect an occupant.
- The driver's door is opened.

NOTE: The above conditions do not reflect a comprehensive list of reasons why Model 3 may or may not automatically shift into Park and, in certain scenarios, it is possible for your vehicle to shift into Park when only one of the above conditions is true.



WARNING: In emergency situations, if the brakes are not functioning properly, press and hold the Park button on the gear selector to bring the vehicle to a stop. Do not use this method to stop the vehicle unless absolutely necessary.



WARNING: It is the driver's responsibility to always ensure the vehicle is in Park before exiting. Never rely on Model 3 to automatically shift into Park for you; it might not work in all circumstances (for example, if Creep or a slope causes the vehicle to travel greater than approximately 2 km/h).

To make it convenient to pick up passengers, you can also unlock all doors at any time by shifting into Park then pressing the Park button a second time.

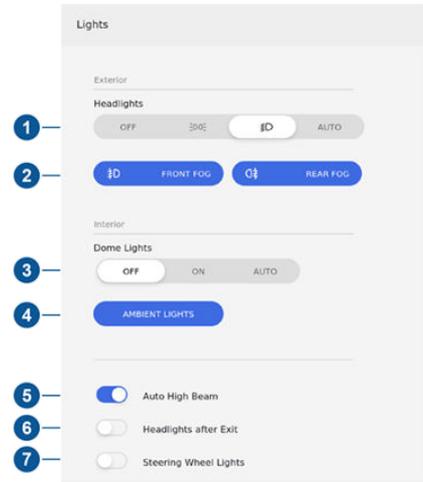


Controlling Lights

Touch **Controls > Lights** on the touchscreen to control the lights.

In addition to the lights that you can control from the touchscreen, Model 3 has convenience lights that operate automatically based on what you are doing. For example, in low ambient lighting conditions, the interior lights, marker lights, tail lights, and puddle lights turn on when you unlock Model 3, when you open a door, and when you shift into Park. They turn off after a minute or two or when you shift into a driving gear or lock Model 3.

NOTE: *The image below is provided for demonstration purposes only. Depending on vehicle options, software version and market region, your touchscreen may appear slightly different.*



1. Exterior lights (headlights, tail lights, position lights and license plate lights) are set to **AUTO** each time you start Model 3. When set to **AUTO**, exterior lights automatically turn on when driving in low lighting conditions. If you change to a different setting, lights always revert to **AUTO** on your next drive.

Touch one of these options to temporarily change the exterior light setting:

NOTE: Any exterior lights (for example, daytime running lights) that are required to remain on in your market region will turn on as appropriate when driving, when parked on specific types of roads, etc.

OFF	Exterior lights turn off until you manually turn them back on or until the next time you drive.
	Only the exterior position lights, tail lights and license plate lights turn on.
	Exterior lights turn on.

NOTE: If equipped with the premium package, Model 3 has a series of LED lights along the rim of the headlights, also referred to as "signature" lights. These lights automatically turn on whenever Model 3 is powered on and a driving gear (Drive or Reverse) is engaged.



CAUTION: The rear tail lights are off while daytime running lights are on. Be sure the rear lights are on during low rear visibility conditions (for example, when it is dark, foggy, snowy, or the road is wet, etc.). Failure to do so can cause damage or serious injury.



WARNING: Always ensure that your headlights are on during low visibility conditions. Failure to do so may result in a collision.

2. A separate control is available to turn on fog lights (if equipped). When on, fog lights operate whenever low beam headlights are on. When headlights are turned off, fog lights also turn off.
3. Turn the interior dome (map) lights on or off. If set to **AUTO**, all interior dome lights turn on when you unlock Model 3, open a door upon exiting, or shift into Park.



You can also manually turn an individual dome light on or off by pressing its lens. If you manually turn a dome light on, it turns off when Model 3 powers off. If Model 3 was already powered off when you manually turned the light on, it turns off after 60 minutes.



4. If you turn on **AMBIENT LIGHTS**, interior ambient lights turn on whenever the headlights are on (if equipped with the premium package).

NOTE: To control the backlighting on the steering wheel buttons, touch **Controls > Lights > Steering Wheel Lights**. If off, they do not turn on when headlights are on.

5. If you turn on **Auto High Beam**, your vehicle automatically switches from high beam headlights to low beam headlights when light is detected in front of Model 3. See [High Beam Headlights](#) on page 69.

6. If you turn on **Headlights after Exit**, the exterior lights remain on for a short period of time after you stop driving and park Model 3 in low lighting conditions. See [Headlights After Exit](#) on page 70.

7. If you turn on **Steering Wheel Lights**, the arrows associated with the scroll buttons are backlit in low ambient lighting conditions.

High Beam Headlights

Push the left-hand steering column lever away from you and release to turn the high beam headlights on continuously. To cancel, push the lever away from you again.

To briefly flash the high beam headlights, pull the lever towards you and release.



The high beam headlights can automatically switch to low beam when there is light detected in front of Model 3 (for example, from an oncoming vehicle). To turn this feature on or off, touch **Controls > Lights > Auto High Beam**.

NOTE: Your chosen setting is retained until you manually change it.

In situations where **Auto High Beam** is turned on but the high beams are turned off because light is detected in front of Model 3, you can temporarily turn on the high beams by pulling the lever toward you.

The following indicator lights are visible on the touchscreen to show the status of the headlights:

	<p>Low beam headlights are on.</p>
	<p>High beam headlights are on and Auto High Beam is disabled or currently unavailable.</p>
	<p>Auto High Beam is enabled and high beams are on. Model 3 is ready to turn off the high beams if light is detected.</p>



	<p>Auto High Beam is enabled but high beams are not on because light is detected in front of Model 3. When light is no longer detected, high beams automatically turn back on.</p>
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WARNING: Auto High Beam is an aid only and is subject to limitations. It is the driver's responsibility to make sure that the headlights are appropriately adjusted for weather conditions and driving circumstances.

Headlights After Exit

When **Headlights after Exit** is on, the exterior headlights remain on when you stop driving and park Model 3 in low lighting conditions. They automatically turn off after one minute or when Model 3 locks. When off, headlights turn off when you engage the Park gear and open a door.

To turn this feature on or off, touch **Controls > Lights > Headlights after Exit**.

Headlight Adjustments

To adjust the angle of the headlights, touch **Controls > Service > Adjust Headlights**, then follow the onscreen instructions. You can choose which headlight you would like to adjust by selecting it on the touchscreen.

NOTE: Headlights do not require adjustments when temporarily driving into a region where the traffic direction is different (for example, driving in right-hand traffic region, and then driving into a region with left-hand traffic).

WARNING: Proceed with caution when adjusting headlights. Tesla has carefully calibrated the position of the headlights to be in an optimum position for most driving scenarios. Tesla recommends that you do not adjust headlights unless you are familiar with how headlights should be adjusted. Once adjusted, you will be unable to automatically restore them to their originally calibrated position. Contact Tesla for assistance when adjusting headlights.

Turn Signals

The turn signals flash three times or continuously, depending on how far up or down you move the lever. Lightly push the turn signal lever up or down for a three-flash sequence. For a continuous signal, push the lever fully up or down.



The turn signals stop operating when canceled by the steering wheel, by moving the lever in the opposite direction, or lightly pushing the lever in the same direction once more.

	
	<p>The corresponding turn signal indicator lights up on the touchscreen when a turn signal is operating. Model 3 also emits a clicking sound.</p>

WARNING: If you have purchased an optional Autopilot package and Traffic-Aware Cruise Control is active, engaging a turn signal can cause Model 3 to accelerate when using Traffic-Aware Cruise Control in specific situations (see [Overtake Acceleration on page 115](#)). If Autosteer is active on a vehicle with Auto Lane Change, engaging a turn signal may cause Model 3 to change lanes.



Hazard Warning Flashers

To turn on the hazard warning flashers, press the button located above the rear view mirror. All turn signals flash. Press the button again to turn off the hazard warning flashers.



NOTE: Hazard warning flashers operate even when Model 3 cannot detect a key.

NOTE: Be careful not to press the SOS button, which is located next to the Hazard Warning Lights on the overhead console. Doing so activates eCall (if services are available in your region) and connects you to emergency responders (see [eCall on page 234](#)).

NOTE: Hazard warning flashers turn on if you brake forcefully when driving over 50 km/h.



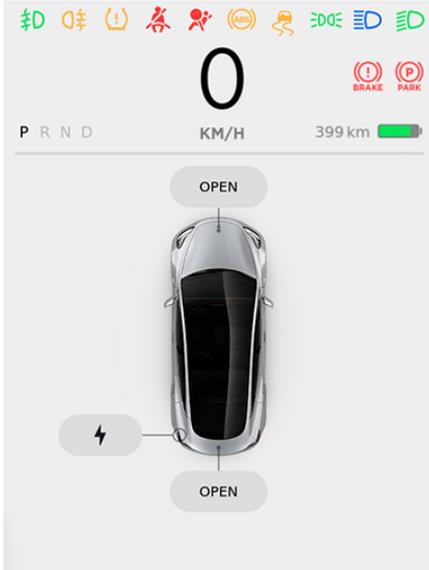
Overview

The touchscreen displays the status of Model 3 at all times. What you see depends on whether the vehicle is:

- Parked (shown below).
- Driving (see [Driving Status on page 74](#)).
- Charging (see [Charging Status and Settings on page 196](#)).

When Model 3 is parked, the status area shows the gear, estimated range, and an overhead view of the car with buttons you can touch to open the trunks and charge port door. When you press the brake, Model 3 powers up and indicator lights flash briefly along the top. Unless an indicator light applies to the current situation (for example, a seat belt is not fastened), it should turn off. If an indicator light fails to turn on or off, contact Tesla.

NOTE: The following image is provided for demonstration purposes only. Depending on vehicle options, software version, and market region, the information displayed may be slightly different.



	The parking brake is manually applied. See Parking Brake on page 80 .
	A parking brake fault is detected. Contact Tesla. See Parking Brake on page 80 .
	Tire pressure warning. The pressure of a tire is out of range. If a fault with the Tire Pressure Monitoring System (TPMS) is detected, the indicator flashes. View tire pressures in the "Cards" area, located below the touchscreen's car status area, as described in Touchscreen Overview on page 6 . For a TPMS fault, contact Tesla. See Tire Care and Maintenance on page 201 .
	A seat belt for an occupied seat is not fastened. See Seat Belts on page 34 .

Indicator Lights

The following indicator lights illuminate to advise you or alert you of a specific status or condition.

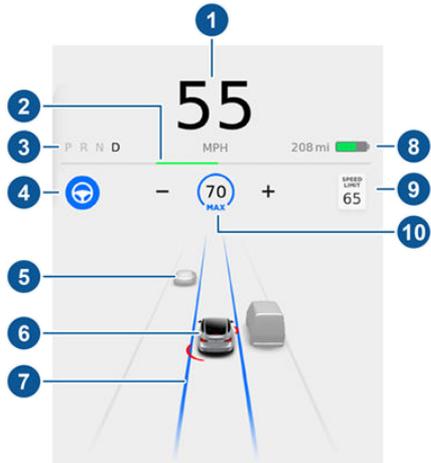
	A brake system fault is detected or the brake fluid level is low. See Braking and Stopping on page 77 . Contact Tesla immediately.
--	--



	<p>Airbag safety. If this indicator does not flash on briefly when Model 3 prepares to drive, or if it remains on, contact Tesla immediately. See Airbag Warning Indicator on page 55.</p>		<p>Auto High Beam is enabled but high beams are not on because light is detected in front of Model 3. When light is no longer detected, high beams automatically turn back on. See High Beam Headlights on page 69.</p>
	<p>An ABS (Anti-lock Braking System) fault is detected. See Braking and Stopping on page 77. Contact Tesla immediately.</p>		<p>This indicator flashes amber when the electronic stability control systems are actively minimizing wheel spin by controlling brake pressure and motor power. See Traction Control on page 82. If this indicator stays illuminated, a fault is detected (contact Tesla immediately).</p>
	<p>Front fog lights, if equipped. See Lights on page 68.</p>		<p>Electronic stability control systems are no longer minimizing wheel spin. See Traction Control on page 82.</p>
	<p>Parking lights (side marker lights, tail lights, and license plate lights) are on. See Lights on page 68.</p>		<p>Trailer mode (if equipped) is active. See Towing and Accessories on page 95.</p>
	<p>Low beam headlights are on.</p>		<p>Vehicle Hold is actively applying the brakes. See Vehicle Hold on page 85.</p>
	<p>High beam headlights are on and Auto High Beam is disabled or currently unavailable.</p>		<p>A door or trunk is open. See Doors on page 16, Rear Trunk on page 20, or Front Trunk on page 22.</p>
	<p>Auto High Beam is enabled and high beams are on. Model 3 is ready to turn off the high beams if light is detected. See High Beam Headlights on page 69.</p>		<p>Appears when some of the stored energy in the Battery may not be available due to cold weather conditions. If Model 3 is plugged in, you can heat your Battery by</p>



	turning on climate control with the mobile app. The snowflake icon disappears when the Battery is sufficiently warm.
	Vehicle power is currently being limited because the energy remaining in the Battery is low or the vehicle's systems are being heated or cooled (indicator light is amber).
	Flashes green when the left turn signal is operating. Both turn signal indicators flash green when the hazard warning flashers are operating.
	Flashes green when the right turn signal is operating. Both turn signal indicators flash green when the hazard warning flashers are operating.



NOTE: Touch Controls > Autopilot > Full Self-Driving Visualization Preview to display more details about the roadway and its surroundings, such as road markings, stop signs, stop lights, objects (such as trash cans and poles), etc.

Driving Status

When Model 3 is driving (or ready to drive), the touchscreen shows your current driving status and a real-time visualization of the road as detected by the Autopilot components (see [About Autopilot on page 108](#)). The visualization automatically zooms in and out to better utilize touchscreen space and inform you when a vehicle is detected in your blind spot.

NOTE: The following illustration is provided for demonstration purposes only. Depending on vehicle options, software version, and market region, the information displayed may be slightly different.

- Driving speed.
- On the energy bar, black (or white in night brightness) represents energy being used during acceleration and green indicates energy being gained through regenerative braking. A dashed line appears on the energy bar when power available for acceleration or power that can be gained by regenerative braking is being limited. Model 3 limits power for many reasons. Here are just a few examples:
 - Acceleration may be limited when the Battery is reaching a low state of charge or if the powertrain is hot.
 - Both acceleration and regenerative braking may be limited when the ambient temperature is either very warm or cool.
 - Regenerative braking may be limited when the Battery is fully charged.
- Currently selected gear: Park, Reverse, Neutral, or Drive.
- Autosteer (if equipped). When Autosteer is available but you haven't activated it, the icon is gray. When Autosteer is actively steering Model 3, the icon is blue.



5. The car in front of you (if applicable).
6. Your Model 3. Colored lines radiate from the image of your Model 3 as objects are detected (other motorists, guard rails, etc.). The location of the lines correspond to the location of the detected object. The color of the lines (white, yellow, orange, or red) represents the object's proximity to Model 3, with white being the farthest and red being very close and requiring your immediate attention. See [Lane Assist on page 136](#).
7. When Autosteer is active (if equipped) and detecting the driving lane, the lane is highlighted in blue (see [Autosteer on page 118](#)).

NOTE: If Navigate on Autopilot is active, the driving lane displays as a single blue line in front of Model 3 (see [Navigate on Autopilot on page 123](#)).

8. Total estimated driving distance (or energy) available. Instead of driving distance, you can display the percentage of battery energy remaining. To do so, touch **Controls > Display > Energy Display > Energy** (see [Controls on page 145](#)).

NOTE: When anticipating when you need to charge, use range estimates as a general guideline only.

9. The detected speed limit (see [Speed Assist on page 143](#))

NOTE: On roads where the map data determines that a conditional speed limit exists (for example, a speed limit based on time of day or weather conditions), a second speed limit displays below the first speed limit. It is the driver's responsibility to determine whether the conditional speed limit is currently in effect and adjust the driving speed accordingly. You may need to update the onboard maps to display conditional speed limits ([Map Updates on page 166](#)).

10. The set cruising speed. When Traffic-Aware Cruise Control (if equipped) is available but you haven't set a cruising speed, the icon is gray and the speed is not shown (see [Traffic-Aware Cruise Control on page 111](#)).



WARNING: Pay attention to important alert messages that display on the car status window. Ignoring these messages can result in serious injury or death.



WARNING: Although the touchscreen shows surrounding traffic, some vehicles may not be displayed. Never rely on the touchscreen to determine if a vehicle is present (for example, in your blind spot). Always use your mirrors and perform shoulder checks.



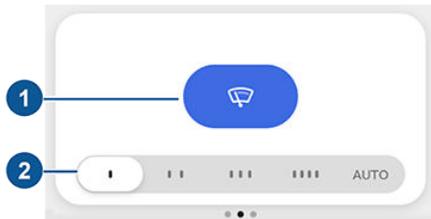
Wipers

To perform a single wipe with the windshield wipers, press and immediately release the button on the end of the left-hand steering column lever.

To adjust the continuous wiper settings, touch the windshield wiper icon located in the “Cards” area on the touchscreen (see [Touchscreen Overview on page 6](#)). The wiper card displays the current state of the wipers.

NOTE: When you operate the wipers, the headlights automatically turn on (if they were not on already).

CAUTION: To avoid damaging the hood, ensure that the hood is fully closed before activating the windshield wipers.



1. Turn the wipers on or off.
2. Adjust the speed of the wipers.
 - 1: Intermittent, slow
 - 2: Intermittent, fast
 - 3: Continuous, slow
 - 4: Continuous, fast
 - **AUTO:** Model 3 detects whether or not it is raining. When wipers are set to AUTO and liquid is detected on the windshield, Model 3 determines the optimal frequency at which they should wipe. If Model 3 does not detect liquid on the windshield, the wipers do not wipe.

NOTE: The AUTO setting is currently in BETA. If uncertain about using AUTO while in the BETA phase, Tesla recommends setting the wiper speed to one of the first four positions, as necessary.

NOTE: If the AUTO setting is selected but becomes unavailable, the wipers change to the manual setting (one of the first four positions) that is closest to the latest determined AUTO wiping frequency. If the latest wiping frequency cannot be determined, the wipers turn off.

CAUTION: Ensure the wipers are off before washing Model 3 to avoid the risk of damaging the wipers.

Periodically check and clean the edge of the wiper blades. If a blade is damaged, replace it immediately. For details on checking and replacing wiper blades, see [Wiper Blades and Washer Jets on page 213](#).

CAUTION: Remove ice from the windshield before turning the wipers on. Ice has sharp edges that can damage the rubber on the blades.

CAUTION: In harsh climates, ensure that the wiper blades are not frozen or adhered to the windshield.

Washers

Fully press and hold the button on the end of the left-hand steering column lever to spray washer fluid onto the windshield. While spraying the windshield, the wipers turn on. After releasing the button, the wipers perform two additional wipes, then a third wipe a few seconds later.



Periodically top up washer fluid (see [Topping Up Windshield Washer Fluid on page 215](#)).



Braking Systems

WARNING: Properly functioning braking systems are critical to ensure safety. If you experience a problem with the brake pedal, brake caliper, or any component of a Model 3 braking system, contact Tesla immediately.

Model 3 has an anti-lock braking system (ABS) that prevents the wheels from locking when you apply maximum brake pressure. This improves steering control during heavy braking in most road conditions.

During emergency braking conditions, the ABS constantly monitors the speed of each wheel and varies the brake pressure according to the grip available.

The alteration of brake pressure can be felt as a pulsing sensation through the brake pedal. This demonstrates that the ABS is operating and is not a cause for concern. Keep firm and steady pressure on the brake pedal while experiencing the pulsing.



The ABS indicator briefly flashes yellow on the touchscreen when you first start Model 3. If this indicator lights up at any other time, an ABS fault has occurred and the ABS is not operating. Contact Tesla. The braking system remains fully operational and is not affected by an ABS failure. However, braking distances may increase. Drive cautiously and avoid heavy braking.



If the touchscreen displays this red brake indicator at any time other than briefly when you first start Model 3, a brake system fault is detected, or the level of the brake fluid is low. Contact Tesla immediately. Apply steady pressure and keep the brakes firm to bring the vehicle to a stop when safe to do so.

Emergency Braking

In an emergency, fully press the brake pedal and maintain firm pressure, even on low traction surfaces. The ABS varies the braking pressure to each wheel according to the amount of traction available. This prevents wheels from locking and ensures that you stop as safely as possible.



WARNING: Do not pump the brake pedal. Doing so interrupts operation of the ABS and can increase braking distance.



WARNING: Always maintain a safe distance from the vehicle in front of you and be aware of hazardous driving conditions. While the ABS can improve stopping distance, it cannot overcome the laws of physics. It also does not prevent the danger of hydroplaning (where a layer of water prevents direct contact between the tires and the road).

Automatic Emergency Braking is designed to automatically brake in situations where a collision is considered imminent (see [Automatic Emergency Braking on page 140](#)).



WARNING: Automatic Emergency Braking is not designed to prevent a collision. At best, it can minimize the impact of a frontal collision by attempting to reduce your driving speed. Depending on Automatic Emergency Braking to avoid a collision can result in serious injury or death.



CAUTION: In emergency situations, if the brakes are not functioning properly, press and hold the Park button on the gear selector to bring the vehicle to a stop. Do not use this method to stop the vehicle unless absolutely necessary.

Dynamic Brake Lights

If you are driving over 50 km/h and brake forcefully (or if Automatic Emergency Braking engages), the brake lights flash quickly to warn other drivers that Model 3 is rapidly slowing down. If Model 3 stops completely, the hazard warning lights flash. Flashing continues until you press the accelerator or manually press the button to turn them off (see [Hazard Warning Flashers on page 71](#)).



NOTE: Dynamic brake lights will not flash while Track Mode is enabled (see [Track Mode on page 86](#)).

NOTE: If towing a trailer, the brake lights on the trailer also operate as described above, even when the trailer is not equipped with a separate braking system.



WARNING: When towing a trailer, always increase your following distance. Sudden braking may result in skidding, jack-knifing, and loss of control.

Brake Disc Wiping

Model 3 is equipped with brake disc wiping, which automatically assists in maintaining brake responsiveness in cold and wet weather conditions. When such conditions are detected, brake disc wiping repeatedly applies an imperceptible amount of brake force to clear away water on the brake disc surface. This ensures your brakes are responsive even during poor weather conditions.

Hydraulic Fade Compensation

Your vehicle is also equipped with hydraulic fade compensation. This assists in monitoring brake system pressure and ABS activity for instances of lower brake performance. If lower brake performance is detected (as a result of brake fade, or cold or wet conditions, for example), you may feel the brake pedal pull away from your foot, detect some noise, and notice a strong increase in vehicle braking. Continue to press the brake pedal without releasing or "pumping" them— just brake as you normally would.



CAUTION: If the brakes are not functioning properly, stop the vehicle as soon as safety permits and contact Tesla Service. See [Park on page 66](#) for information on using the Park button to stop the vehicle in case of emergency.



WARNING: Always maintain a safe driving distance from the vehicle in front of you and be cautious in hazardous driving conditions. Do not rely on brake disc wiping or hydraulic fade compensation to act as a substitute for adequate braking.

Regenerative Braking

Whenever Model 3 is moving and your foot is off the accelerator, regenerative braking slows down Model 3 and feeds any surplus energy back to the Battery.

By anticipating your stops and reducing or removing pressure from the accelerator pedal to slow down, you can take advantage of regenerative braking to increase driving range. Of course, this is no substitute for regular braking when needed for safety.

NOTE: If regenerative braking is aggressively slowing Model 3 (such as when your foot is completely off the accelerator pedal at highway speeds), the brake lights turn on to alert others that you are slowing down.

NOTE: Installing winter tires with aggressive compound and tread design may result in temporarily-reduced regenerative braking power. However, your vehicle is designed to continuously recalibrate itself, and after changing tires it will increasingly restore regenerative braking power after some moderate-torque straight-line accelerations. For most drivers this occurs after a short period of normal driving, but drivers who normally accelerate lightly may need to use slightly harder accelerations while the recalibration is in progress.



WARNING: In snowy or icy conditions Model 3 may experience traction loss during regenerative braking, particularly when in the **Standard** setting and/or not using winter tires. Tesla recommends using the **Low** setting (see [To Set the Regenerative Braking Level on page 79](#)) in snowy or icy conditions to help maintain vehicle stability.

The amount of energy fed back to the Battery using regenerative braking can depend on the current state of the Battery and the charge level setting that you are using. For example, regenerative braking may be limited if the Battery is already fully charged or if the ambient temperature is too cold.

NOTE: If regenerative braking is limited, a dashed line displays on the energy bar (see [Driving Status on page 74](#)).



To Set the Regenerative Braking Level

You can use the touchscreen to change the level of regenerative braking:

1. Touch **Controls > Driving > Regenerative Braking**.
2. Choose from two levels:
 - **Standard:** Provides the maximum amount of regenerative braking. When you release the accelerator, Model 3 slows down, reducing the need to use the brakes.
 - **Low:** Limits regenerative braking. When you release the accelerator, Model 3 takes longer to slow down and coasts further than if set to "Standard".

Stopping Mode

Regenerative braking decelerates Model 3 whenever you release the accelerator pedal when driving. You can choose what you want Model 3 to do once the driving speed has been reduced to a very low speed (almost at a stop) and both the accelerator pedal and brake pedal are released. While in Park, touch **Controls > Driving > Stopping Mode** and choose from these options:

- **CREEP:** When close to, or at, a complete stop, the motor continues to apply torque, moving Model 3 slowly forward (in Drive) or backwards (in Reverse), similar to a conventional vehicle with an automatic transmission. In some situations, such as on a steep hill or driveway, you may need to press the accelerator pedal to continue moving or to prevent Model 3 from moving in the opposite direction.



WARNING: Never rely on CREEP to apply enough torque to prevent your vehicle from rolling down a hill. Always press the brake pedal to remain stopped or the accelerator pedal to proceed up the hill. Failure to do so can result in property damage and/or a collision.

- **HOLD:** Maximizes range and reduces brake wear by continuing to provide regenerative braking at speeds lower than with the Creep and Roll settings. When Model 3 stops, the brakes are automatically applied without you having to put your foot on the brake pedal. Whether stopped on a flat surface or a hill, Vehicle Hold keeps the brake applied, provided your foot remains off the accelerator and brake pedals. See [Vehicle Hold on page 85](#).



WARNING: Never rely on HOLD to adequately decelerate or fully stop your vehicle. Many factors can contribute to a longer stopping distance, including downward slopes, the low regenerative braking setting, and reduced or limited regenerative braking (see [Regenerative Braking on page 78](#)). Always be prepared to use the brake pedal to adequately decelerate or stop.

- **ROLL:** When close to, or at, a complete stop, Model 3 becomes free rolling like a vehicle in Neutral. Therefore, if stopped on a slope, Model 3 will roll downward. The brake does not engage, and the motor does not apply torque (until the accelerator pedal is pressed).

NOTE: If you choose CREEP or ROLL, you can still use Vehicle Hold to apply the brakes. However, you will need to briefly press the brake pedal when the vehicle is stopped. See [Vehicle Hold on page 85](#).

NOTE: When Model 3 is in Track Mode (see [Track Mode on page 86](#)), the Roll mode is automatically enabled, regardless of your chosen setting. When no longer in Track Mode, Model 3 reverts back to your chosen setting.



WARNING: Press the brake pedal if Model 3 moves when unsafe to do so. It is your responsibility to stay alert and be in control of the vehicle at all times. Failure to do so can result in serious damage, injury, or death.



WARNING: Do not rely on regenerative braking and your chosen Stopping Mode to keep you and your vehicle safe. Various factors such as driving with a heavy vehicle load, on a steep hill, or on wet or icy roads affect deceleration rate and the distance at which Model 3 will come to a stop. Drive attentively and always stay prepared to use the brake pedal to stop as appropriate based on traffic and road conditions.



WARNING: Forward Collision Warning and Automatic Emergency Braking do not operate when driving at very low speeds (see [Collision Avoidance Assist on page 139](#)). Do not rely on these features to warn you, or to prevent or reduce the impact of a collision.

NOTE: Your chosen setting is retained in your Driver Profile until you manually change it.

Parking Brake

The parking brake automatically engages when you shift Model 3 into Park, and releases when you shift into any other gear.



NOTE: The parking brake operates on the rear wheels only, and is independent of the pedal-operated brake system.



WARNING: In snowy or icy conditions the rear wheels may not have sufficient traction to prevent Model 3 from sliding down a slope, particularly if not using winter tires. Avoid parking on hills in snowy or icy conditions. You are always responsible for parking safely.



WARNING: Your Model 3 may display an alert if the road is too steep to safely park on, or if the parking brakes are not properly engaged. These alerts are for guidance purposes only and are not a substitute for the driver's judgment of safe parking conditions, including specific road or weather conditions. Do not depend on these alerts to determine whether or not it is safe to park at any location. You are always responsible for parking safely.



When you use the touchscreen to manually apply the parking brake, the red parking brake indicator lights up on the touchscreen.



If the parking brake experiences an electrical issue, the amber parking brake indicator lights up and a fault message displays at the top of the touchscreen.



CAUTION: In the unlikely event that Model 3 loses electrical power, you cannot access the touchscreen and are therefore unable to release the parking brake without first jump starting Model 3 (see [Instructions for Transporters on page 235](#)).

Brake Wear

Model 3 brake pads are equipped with wear indicators. A wear indicator is a thin metal strip attached to the brake pad that squeals as it rubs against the rotor when the pad wears down. This squealing sound indicates that the brake pads have reached the end of their service life and require replacement. To replace the brake pads, contact Tesla Service.

Brakes must be periodically inspected visually by removing the tire and wheel. For detailed specifications and service limits for rotors and brake pads, see [Subsystems on page 223](#). Additionally, Tesla recommends cleaning and lubricating the brake calipers every year or 20,000 km if in an area where roads are salted during winter months.



WARNING: Neglecting to replace worn brake pads damages the braking system and can result in a braking hazard.



How It Works

The traction control system constantly monitors the speed of the front and rear wheels. If Model 3 experiences a loss of traction, the system minimizes wheel spin by controlling brake pressure and motor power. By default, the traction control system is on. Under normal conditions, it should remain on to ensure maximum safety.



This yellow indicator flashes on the touchscreen whenever the traction control system is actively controlling brake pressure and motor power to minimize wheel spin. If the indicator stays on, a fault is detected with the traction control system. Contact Tesla Service.



WARNING: Traction control cannot prevent collisions caused by driving dangerously or turning too sharply at high speeds.

Allowing Wheel Slip

To allow the wheels to spin at a limited speed, you can enable Slip Start. Slip Start can be enabled at any speed, however it is less effective at higher speeds.

Under normal conditions, Slip Start should not be enabled. Enable it only in circumstances where you deliberately want the wheels to spin, such as:

- Starting on a loose surface, such as gravel or snow.
- Driving in deep snow, sand or mud.
- Rocking out of a hole or deep rut.

To allow the wheels to spin, touch **Controls** > **Driving** > **Traction Control** > **Slip Start**.



The touchscreen displays an alert message when Slip Start is enabled.

Although Slip Start is automatically disabled the next time you start Model 3, it is strongly recommended that you disable it immediately after the circumstances that required you to enable it have passed.

NOTE: Slip Start cannot be enabled when you are actively using Traffic-Aware Cruise Control.

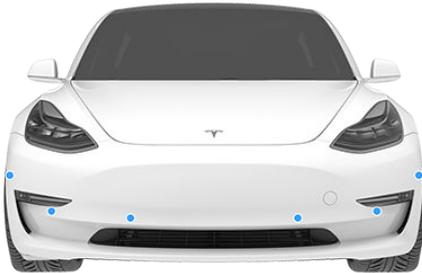


How Park Assist Works

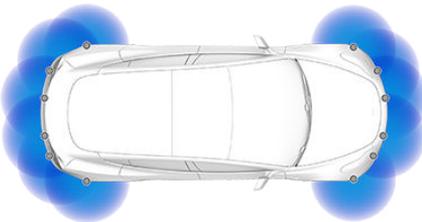
Model 3 has several sensors designed to detect the presence of objects. When driving slowly in Drive or Reverse (for example, when parking), the sensors alert you if an object is detected in close proximity of your Model 3. Objects are only detected in the direction of the gear you selected; front objects in Drive, rear objects in Reverse.



WARNING: You may not be alerted if Model 3 rolls freely in the opposite direction of the gear you selected (for example, you will not receive an alert if Model 3 rolls backwards down a hill while in Drive).



The sensors are activated when driving slower than 8 km/h.



WARNING: Never depend on Park Assist to inform you if an area you are approaching is free of objects and/or people. Several external factors can reduce the performance of Park Assist, causing either no readings or false readings (see [Limitations and False Warnings on page 84](#)). Therefore, depending on Park Assist to determine if Model 3 is approaching an obstruction can result in damage to the vehicle and/or objects, and can potentially cause serious injury. Always inspect the area with your own eyes. When reversing, perform shoulder checks and use all mirrors. Park assist does not detect children, pedestrians, bicyclists, animals, or objects that are moving, protruding, located too far above or below the sensors, or too close or too far from the sensors. Park Assist is for guidance purposes only and is not intended to replace your own direct visual checks. It is not a substitute for careful driving.

Visual and Audio Feedback

When you shift to Reverse, the Park Assist view displays on the touchscreen, showing objects that are in close proximity to the front and rear of Model 3. This view closes when you shift into Drive unless an object is detected close to the front of Model 3, in which case the Park Assist view closes automatically when your driving speed exceeds 8 km/h. When reversing, visual feedback also displays on the touchscreen, immediately below the camera view (see [Rear View Camera on page 91](#)). You can manually close the park assist view on the touchscreen by touching the X in the upper corner.

When driving with the Camera app displayed on the touchscreen, you can switch to the Park Assist view when driving at speeds below 8 km/h. Touch the button located in the upper left corner of the Camera app window. This is useful if you need assistance with parallel parking.

If chimes are turned on (see [Controlling Audible Feedback on page 84](#)), an audible beep sounds as you approach an object. You can temporarily mute the chime by pressing the scroll button on the left side of the



steering wheel or by touching the mute button on the bottom left corner of the Park Assist view.

NOTE: If a sensor is unable to provide feedback, the touchscreen displays an alert message.



CAUTION: Keep sensors clean from dirt, debris, snow, and ice. Avoid using a high pressure power washer on the sensors and do not clean a sensor with a sharp or abrasive object that can scratch or damage its surface.



CAUTION: Do not install accessories or stickers on or near the parking sensors.

Controlling Audible Feedback

You can use Park Assist with or without audible feedback. To turn chimes on or off, touch **Controls > Safety & Security > Park Assist Chimes**.

To mute the chimes temporarily, press the scroll button on the left side of the steering wheel or touch the mute button in the corner of the Park Assist view. The chimes are muted until you shift into a different gear or drive over 8 km/h.

Limitations and False Warnings

The parking sensors may not function correctly in these situations:

- One or more of the parking sensors is damaged, dirty, or covered (such as mud, ice, or snow).
- The object is located below approximately 20 cm (such as a curb or low barrier).



CAUTION: Shorter objects that are detected (such as curbs or low barriers) can move into the blind spot of the sensors. Model 3 cannot alert you about an object while it is in the blind spot of the sensors.

- Weather conditions (heavy rain, snow, or fog) are interfering with sensor operation.
- The object is thin (such as a sign post).
- A sensor's operating range has been exceeded.
- The object is sound-absorbing or soft (such as powder snow).
- The object is sloped (such as a sloped embankment).
- Model 3 has been parked in, or being driven in, extremely hot or cold temperatures.
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.
- You are driving in a location where the sensors' ultrasonic waves are deflected away from the vehicle (such as driving next to a wall or pillar).
- The object is located too close to the bumper.
- A bumper is misaligned or damaged.
- An object that is mounted to Model 3 is interfering with and/or obstructing the sensor (such as a bike rack or bumper sticker).
- Model 3 rolls freely in the opposite direction of the gear you selected (for example, you will not receive an alert if Model 3 rolls backwards down a hill while in Drive).

Other Parking Aids

In addition to Park Assist, when shifted into Reverse, the backup camera displays a view of the area behind Model 3 (see [Rear View Camera on page 91](#)).



When Model 3 is stopped, Vehicle Hold can continue to apply the brakes even after you remove your foot from the brake pedal. When driving on a hill or on a flat surface, brake as you normally would. After coming to a complete stop, simply press the brake pedal again (until the touchscreen displays the Vehicle Hold indicator light) to enable Vehicle Hold. You can then release the brake pedal and remain stopped, even on a hill.



This indicator displays on the touchscreen whenever Vehicle Hold is actively braking Model 3.

To disengage Vehicle Hold, press the accelerator pedal or press and release the brake pedal.

NOTE: Shifting into Neutral also disengages Vehicle Hold.

NOTE: After actively braking Model 3 for approximately ten minutes, Model 3 shifts into Park and Vehicle Hold cancels. Model 3 also shifts into Park if it detects that the driver has left the vehicle.

NOTE: When Stopping Mode is set to Hold (see [Stopping Mode on page 79](#)), Vehicle Hold engages automatically whenever Model 3 stops while in a driving gear. There is no need to press the brake to engage it.



Track Mode, available only on Performance Model 3 vehicles, is designed to modify the stability control, traction control, regenerative braking, and cooling systems to increase performance and handling while driving on closed circuit courses. Track Mode improves cornering ability by intelligently using the motors, and regenerative and traditional braking systems. When enabled, the cooling system runs at an increased level during and after aggressive driving sessions to allow your vehicle's systems to withstand the surplus heat.

NOTE: Track Mode is designed and calibrated for a Performance Model 3 equipped with performance brakes and tires. Vehicles without performance brakes and tires may experience comparatively lower performance and endurance.



WARNING: Track Mode is designed for use on closed circuit driving courses only. It is the driver's responsibility to drive safely and ensure others are not endangered.



WARNING: Track Mode is designed for use by experienced track drivers familiar with the course. Do not use on public roads. It is the driver's responsibility to be in control of the vehicle at all times, including on the track. Because vehicle behavior (including traction and stability control) differs when using Track Mode, always use caution.

Using Track Mode

Track Mode is always disabled when you start Model 3. To enable Track Mode for your current drive, shift into Park and follow these steps:

1. Touch **Controls** > **Driving** > **Track Mode**.

When enabled, **TRACK** displays on the touchscreen above the driving speed, and a Track Mode pop up window appears on the map. The car status area of the touchscreen displays a color-coded image of your Model 3 that provides you with important at-a-glance status information about the Battery, the motors, the tires and the brakes. See [Monitoring Vehicle Health on page 88](#).

2. If desired, customize the Track Mode settings by touching **Track Mode Settings** on the Track Mode pop up window (see [Customizing Track Mode on page 87](#)). You can also access the Track Mode settings by touching **Controls** > **Driving**, then touching **Customize** next to the Track Mode setting.

3. If you want to use the Lap Timer, follow the onscreen instructions to drop a pin on the map to define the lap's start/finish location. You will then need to press **START** on the Lap Timer to begin your driving session. Once started, the Lap Timer starts counting when you drive Model 3 past the lap's start/finish location where you dropped the pin. See [Using the Lap Timer on page 87](#).

4. Shift into gear and **GO!**

If you started the Lap Timer, each time you pass the start/finish location, the timer resets for the next lap. See [Using the Lap Timer on page 87](#).

You can also view a real-time accelerometer (G-meter) by swiping the Cards area of the touchscreen. See [G-Meter on page 88](#).

When Track Mode is on:

- Autopilot features are unavailable (including safety features such as Automatic Emergency Braking, Forward Collision Warning, etc.).
- Settings such as Slip Start and Regenerative Braking are overridden.
- Stopping Mode is set to the Roll setting in which Model 3 is free-rolling at very low speeds whenever a driving gear is engaged and both the accelerator and brake pedal are released. For details, see [Stopping Mode on page 79](#).
- Energy usage increases.
- Easter eggs including games, arcade and Tesla Theater are unavailable.

Use the touchscreen setting to turn Track Mode off at any time. Powering off Model 3 also turns off Track Mode (although it may still appear on the touchscreen if Post-Drive cooling is in progress). When Track Mode is



off, all settings return to their previous state and all features return to their normal operating state.

Customizing Track Mode

To customize Track Mode, touch **Track Mode Settings** on the Track Mode popup window that appears on the map when you enable Track Mode. You can also access the Track Mode settings by touching **Controls > Driving**, then touching **Customize** next to the Track Mode setting. Choose an existing Track Mode setting from the list of pre-defined profiles provided by Tesla. Or create a new settings profile by touching **Add New Settings**, entering a name for the settings profile, then adjusting these settings to suit your preferences or driving scenario, or customize for a specific track:

- **Handling Balance** - Customize the balance of Model 3 in a turn. If Model 3 is too loose, you can choose a front-biased under-steering setup. Difficult to get the vehicle through a turn? Try a rear-biased setup to increase rotation. You can select any value, in 5% increments, between 100/0 (for 100% front biased used for under-steering) and 0/100 (for 100% rear biased used for over-steering).
- **Stability Assist** - Choose the level at which the stability control systems are helping to control the vehicle. You can choose any level from -10 to +10. Choosing +10 engages all stability assist systems for controllable driving in which stability systems remain engaged, whereas -10 disables all stability systems and the stability of the drive rests solely on the driver. The default setting of 0 represents a balance which provides some stability being automatically controlled and leaving some control up to the driver.
- **Regenerative Braking** - Choose how much regenerative braking is available. You can choose any value, in 5% increments, between 0 and 100%. Tesla recommends the 100% setting to help avoid overheating the brakes.
- **Post-Drive Cooling** - Set to ON if you want the cooling systems to continue cooling the vehicle's components even after you leave the vehicle. Cooling stops automatically when the components are

sufficiently cool, or when you power Model 3 off and back on again. Post-Drive Cooling is useful if you want to quickly cool the components between driving sessions. If Post-Drive Cooling is set to OFF, the components eventually cool, but it takes longer.

- **Compressor Overclock** - Set to ON if you want to run the cooling system in overdrive. Doing so speeds up the cooling process and is useful when performing multiple aggressive driving sessions with very little time in between.



CAUTION: Extensive use of Compressor Overclock can damage or shorten the life of the compressor. Damage caused by using this feature is not covered by the warranty.

- **Save Dashcam for Laps** - Set to ON if you want to save a video and data of the Track Mode driving session on a USB flash drive. A USB flash drive must be set up and inserted as described in [USB Flash Drive Requirements for Videos and Recording on page 177](#). The USB flash drive must contain a folder named "TeslaTrackMode" (without the quotation marks). When enabled, Track Mode stores a video of each lap in a driving session when using the Lap Timer. Track Mode also stores the car status and telemetry data with details about the vehicle's position, speed, acceleration, use of accelerator, etc. You can then analyze this data, which is stored as a .CSV file on the USB flash drive, to determine where time is being lost or gained (even on a per tire level).

Track Mode allows you to save up to 20 Track Mode profiles. To delete a chosen profile, touch **Delete** at the bottom of the settings window.

NOTE: You can not change or delete a pre-defined profile provided by Tesla.

Using the Lap Timer

When you enable Track Mode, the map displays a Lap Timer. Follow the onscreen instructions to place a start/finish pin on the map. Once the pins are placed, press **START** to initiate the driving (lapping) session. When you drive Model 3 through the start/finish location, the Lap Timer automatically starts



timing the duration of the lap, resetting the timer whenever you pass the start/finish location. The map highlights the track in blue.

At the completion of each lap, the Lap Timer displays the duration of the lap. It also displays the times associated with the previous and best laps in the driving session.

If **Save Dashcam for Laps** is on (see [Customizing Track Mode on page 87](#)), and a properly formatted USB flash drive is inserted in a front USB port, Track Mode saves a video of the driving session (as recorded by the front cameras), along with a .CSV file that provides detailed information about the lap.

NOTE: To stop the timer at the end of your driving session, touch **STOP** on the Lap Timer popup window.

Monitoring Vehicle Health

You can easily monitor the health of Model 3 when using Track Mode by glancing at the car status area of the touchscreen. The colors indicate the status of the various components, allowing you to determine the current operating state and make decisions accordingly. The components are displayed in green when operating within their ideal temperature range. Colors change as follows:

- The Battery displays blue when cold and red when hot.
- A brake displays blue when cold and red when hot (an early warning for overheating brakes).
- A motor displays blue when it's cold or red when it's hot.
- A tire displays blue when under-used or red when the peak grip is exceeded.

NOTE: A component displayed in red does not necessarily indicate a concern.



CAUTION: Any vehicle damage or injuries caused by using Track Mode is the driver's responsibility. The vehicle warranty does not cover damage caused by excessive overuse of vehicle components. It also does not cover racing, autocross, or driving in competition.

G-Meter

In Track Mode, a real-time G-Meter displays on the Cards area of the touchscreen (see [Touchscreen Overview on page 6](#)). The G-Meter graphically displays peak lateral, acceleration, and deceleration values in the form of a circular meter. The history of your drive is represented in the shaded area. The G-Meter resets at the start of each driving session.

NOTE: You can swipe the G-Meter card to display a different card. However, the G-Meter displays as the default card whenever you engage Track Mode.



Driving Tips to Maximize Range

You can maximize your driving range using the same driving habits you use to conserve fuel in a gasoline-powered vehicle. In addition to driving habits, energy consumption depends on environmental conditions (such as exceptionally cold or hot weather and driving on roads with steep hills). To achieve maximum range:

- Slow down your driving and avoid frequent and rapid acceleration. Consider using Chill Mode (see [Controls on page 145](#)) and Speed Assist (see [Speed Assist on page 143](#)) to assist in controlling your acceleration and speed.
- If safe to do so, modulate the accelerator pedal instead of using the brake pedal when gradually slowing down. Whenever Model 3 is moving and you are not pressing the accelerator pedal, regenerative braking slows down Model 3 and feeds surplus energy back to the Battery (see [Regenerative Braking on page 78](#)).
- Set Stopping Mode to **HOLD** to gain the benefit of regenerative braking at low driving speeds (see [Stopping Mode on page 79](#)).
- Keep tires at the recommended inflation pressures (see [Tire Care and Maintenance on page 201](#)), ensure tire alignment is within specification, and tires are rotated when needed. Rotating tires will reduce uneven tread wear, increasing your vehicle's efficiency (see [Maintenance Schedule on page 199](#)).
- Lighten your load by removing any unnecessary cargo.
- Fully raise all windows.
- Limit the use of resources such as heating, lights, and air conditioning. Using seat heaters to keep warm is more efficient than heating the cabin using climate controls.
- Precondition the vehicle while it is plugged in to ensure the cabin is at a comfortable temperature and windows are defrosted (if needed) before your drive. Use the mobile app to precondition your

vehicle by touching **Climate > Turn On Climate** and customizing your preferences (see [Mobile App on page 186](#)).

- Features such as Sentry Mode, Headlights After Exit, and Cabin Overheat Protection can impact range. Disable features that are not needed.
- To prevent an excessive amount of energy consumption while the vehicle is idle, keep the vehicle plugged in when not in use.
- Minimize the use of DC chargers (such as superchargers) for optimal Battery health.

The power meter on the touchscreen and the Energy app (see [Energy App on page 90](#)) provides feedback on energy usage. With this feedback, you can become familiar with how driving habits and environmental conditions impact how much energy Model 3 is using.

Factors Affecting Energy Consumption

Several factors can affect your vehicle's rate of energy consumption, including:

- Uphill travel: Driving uphill requires more energy and depletes range at a faster rate. However, driving downhill allows your vehicle to regain a portion of its expended energy through regenerative braking (see [Regenerative Braking on page 78](#)).
- Customized settings: Energy is consumed by accessories like lights, heating and cooling, media player, Sentry Mode, etc.
- Short trips: It takes energy to bring the cabin and Battery to a specified temperature when starting the vehicle. You may see a higher average consumption when the vehicle is used for very short trips while climate controls are enabled.
- Temperature and weather conditions: In colder weather, precondition the vehicle before driving (see [Cold Weather Best Practices on page 104](#)).

When parked, Model 3 consumes approximately 1% of charge per day. In some cases (and depending on your vehicle's settings), consumption may be higher. To reduce energy consumption, turn off settings such as climate controls, Sentry Mode,



Preconditioning (when your vehicle is unplugged), and any aftermarket equipment when not needed.

Range

The displayed range may decrease faster than the actual distance driven. When fully charged, the driving range displayed in Tesla vehicles is based on EPA certification and does not account for your personal driving patterns or external conditions. To view estimated range based on energy consumption, open the Energy app to display the graph (see [Energy App on page 90](#)).

As with all vehicles, the actual range achievable by Model 3 heavily depends on driving behaviors and environmental conditions.

Energy App

The Energy app provides a visual representation of your vehicle's real-time and projected energy usage. To use the Energy app, navigate to **Application Launcher > Energy** on the touchscreen. Choose from two types of charts:

- **Consumption:** Display how much energy Model 3 has consumed over the past 10, 25 or 50 km.

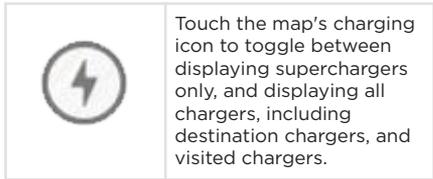
Touch **Instant Range** or **Average Range** to adjust the projected range estimation. Instant Range uses only the latest few data points to estimate the projected range, whereas Average Range uses the past 10, 25 or 50 km of energy consumption to provide a more accurate projected range.

- **Trip:** monitor the amount of energy being used while navigating to a destination. You can track actual usage against the initial prediction. The green line represents the actual usage whereas the gray line represents predicted usage. To change the zoom level, touch the zoom icon located in the top right corner of the chart.

NOTE: The Trip chart displays energy usage only if you are currently navigating to a destination.

Range Assurance

Model 3 helps protect you against running out of energy. Your vehicle continuously monitors its energy level and proximity to known charging locations.



When you are at risk of driving beyond the range of known charging locations, the touchscreen displays a message giving you the opportunity to display a list of charging locations that are within range. When you select a charging location from the list, Model 3 provides navigation instructions and the turn-by-turn direction list displays the predicted amount of energy that will remain when you arrive at the charging destination.

Trip Planner (if equipped) routes you through Supercharger locations to minimize the amount of time you spend charging and driving. To enable, enter an address in the Navigation search bar, select the Settings icon, and toggle on Trip Planner (see [Trip Planner on page 165](#)).



Camera Location

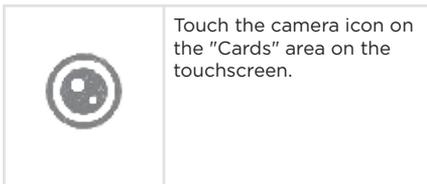
Model 3 is equipped with a rear view camera located above the rear license plate.



Whenever you shift into Reverse, the touchscreen displays the view from the camera. Lines show your driving path based on the position of the steering wheel. These lines adjust appropriately as you move the steering wheel.

NOTE: Visual feedback from the parking sensors display on the touchscreen (see [Park Assist on page 83](#)).

To display the view from the camera at any time:



WARNING: Never depend on the rear view camera to inform you if the area behind you is free of objects and/or people when reversing. The camera may not detect objects or barriers that can potentially cause damage or injury. In addition, several external factors can reduce the performance of the camera, including a dirty or obstructed lens. Therefore, depending on the rear view camera to determine if Model 3 is approaching an obstruction can result in damage to the vehicle and/or objects, and can potentially cause serious injury. Always inspect the area with your own eyes. When reversing, perform shoulder checks and use all mirrors. Use the camera for guidance purposes only. It is not intended to replace your own direct visual checks and is not a substitute for careful driving.

Cleaning the Camera

To ensure a clear picture, keep the camera lens clean and free of obstructions. Remove any buildup of dirt by occasionally wiping the camera lens with a soft damp cloth.



CAUTION: Do not use chemical-based or abrasive cleaners. Doing so can damage the surface of the camera lens.



About Dashcam

NOTE: Dashcam is a BETA feature.

In addition to supporting Autopilot features, the cameras can record and store video footage on a USB flash drive. This can be convenient in situations where you want a video recording of a particular incident, such as a collision. You can pause, resume, or save video recordings directly from your vehicle's touchscreen.

NOTE: Dashcam only works when Model 3 is powered on (see [Starting and Powering Off on page 64](#)). Dashcam does not record video when your vehicle is powered off.

Using Dashcam

Dashcam requires the use of a properly formatted USB flash drive to store and retrieve footage (see [USB Flash Drive Requirements for Videos and Recording on page 177](#)). Once a properly formatted USB flash drive has been inserted into one of your vehicle's front USB ports, a Dashcam icon appears at the top of the touchscreen. Touch the Dashcam icon to control Dashcam:

	RECORDING. Tap the Dashcam icon, when Dashcam is paused, to start recording video on the flash drive.
	PAUSED. Press and hold the Dashcam icon, when recording, to pause recording. Ensure that Dashcam is paused before removing the flash drive to avoid losing camera footage.
	SAVED. Tap the Dashcam icon, when recording, to archive the most recent ten minutes of video. These saved video recordings are not overwritten by new recordings.

NOTE: Dashcam automatically begins recording when you insert a properly configured USB flash drive into one of the front USB ports.

USB Flash Drive Requirements for Videos and Recording

To store video from your vehicle's cameras, follow these requirements and guidelines for using flash drives:

- The flash drive must have a **sustained** write speed of at least 4 MB/s. A sustained write speed is different from the peak write speed. Check the product details of your flash drive for more information.
- The flash drive must be USB 2.0 compatible. If using a USB 3.0 flash drive, it must be able to support USB 2.0.
- Use a dedicated flash drive exclusively for saving Sentry Mode recordings.
- The flash drive must be properly formatted (see [Formatting the USB Flash Drive on page 178](#)).
- Use a flash drive with as much available storage as possible. Video footage can occupy a large amount of space. Tesla recommends using a flash drive with at least 32 GB of storage. Some personal computer operating systems may be unable to format flash drives larger than 32 GB as FAT 32. Consider using a third party application to format flash drives larger than 32 GB.

Although not a comprehensive list, Tesla has tested the following flash drives and confirmed that they meet the requirements for using Dashcam and Sentry Mode:

- SanDisk Ultra Fit USB 3.1 Flash Drive
- Samsung MUF-64AB/AM FIT Plus - 200MB/s USB 3.1 Flash Drive



Formatting the USB Flash Drive

To correctly save and retrieve video footage, Model 3 requires the USB flash drive to be formatted as FAT 32 (for Windows), MS-DOS FAT (for Mac), ext3, or ext4. NTFS and exFAT are not currently supported. In addition, the USB flash drive must contain a base-level folder called “TeslaCam” (without quotation marks). Follow the steps below to prepare a USB flash drive.

For MacOS:

1. Insert the USB flash drive into your personal computer.
2. Navigate to **Utilities > Disk Utility** (or conduct a Spotlight Search).
3. Select your flash drive in the left menu.
4. Navigate to **Erase** in the top menu ribbon.
5. In the pop-up menu, select the correct format (MS-DOS FAT) and click **Erase**.

NOTE: Selecting **Erase** removes all existing content from your flash drive. If you have content that you want to keep, you must move it to a different device before erasing.

6. Once the flash drive is successfully erased, navigate to **Finder** and select your USB flash drive from the left menu. The flash drive should not contain any files.
7. Right-click in the empty space of the flash drive and select **New Folder**. A folder appears in your flash drive space.
8. Right-click on the folder, select **Rename**, and name the folder to “**TeslaCam**” (without quotation marks). Click “Save”. This folder will contain all recent and saved clips from Sentry Mode and Dashcam.
9. Properly eject the USB flash drive.

For Windows:

1. Insert the USB flash drive into your personal computer.
2. Navigate to **File Explorer**.
3. Right-click on your USB flash drive and select “Format...”.
4. In the pop-up menu, under the File System section, select “FAT 32”.

NOTE: You can also name your USB flash drive (under Volume Label) for easier recognition.

5. Check the **Quick format** box and click **Start**.
6. Go back to File Explorer, click on your flash drive, and right-click to create a folder, or select **New Folder** in the top menu.
7. Name the folder “**TeslaCam**” (without quotation marks) and click **Save**. This folder will contain all recent and saved clips from Sentry Mode and Dashcam.
8. Properly eject the USB flash drive.

Once you have formatted the USB flash drive and created the **TeslaCam** folder, insert it into one of the front USB ports in Model 3. Do not use the rear USB ports—they are for charging only. It may take Model 3 up to 15 seconds to recognize the flash drive. When recognized, icons for Dashcam and Sentry Mode appear at the top of your touchscreen (note that you may need to enable Sentry Mode by touching **Controls > Safety & Security > Sentry Mode**). Model 3 is ready to record video.

Retrieving Footage

To retrieve video footage from the USB flash drive, remove the flash drive from the front USB port and use a personal computer or other device to access the files. Navigate to the **TeslaCam** folder.

Within the **TeslaCam** folder, there are three sub-folders:

- **Recent Clips** - The footage in Recent Clips continuously loops in 60-minute cycles whenever the cameras are activated. Therefore, footage is constantly overwritten every hour unless you save it. When an event is recorded, one video is recorded for each of the front, rear, left, and right cameras.
- **Saved Clips** - Contains all recordings that you have manually saved using [Dashcam on page 92](#).
- **Sentry Clips** - Contains all footage from Sentry Mode events which have been automatically saved when an Alert or Alarm state is triggered. The last 10 minutes of an event’s footage is saved and labeled with a unique timestamp.



NOTE: As the USB flash drive runs out of available space, the oldest footage in Sentry Clips is deleted to make room for new footage. Once deleted, you will be unable to retrieve them. When the flash drive is full, Sentry Mode and Dashcam can no longer save video footage. To prevent the flash drive from getting full, you must regularly move saved videos to another device, and delete them from the flash drive.

You can also review Dashcam and Sentry Mode video recordings on your vehicle's touchscreen by touching the Dashcam icon and selecting "Launch Viewer". Each video, organized by timestamp, provides footage of a saved event from each camera. Touch the thumbnail of any camera to enlarge the video. Pause, rewind, fast forward, and delete video footage as needed. Your vehicle must be in Park to view Dashcam and Sentry Mode footage on the touchscreen.

NOTE: Dashcam recording is paused while the viewer is open.

NOTE: You are responsible for complying with all local laws, regulations, and property restrictions regarding video recordings.

NOTE: The cameras do not record audio.

Save Clips on Honk

Once a properly formatted USB flash drive is inserted in one of the vehicle's front USB ports, you can choose to save Dashcam clips while driving when you honk the horn on your steering wheel. Navigate to **Controls > Safety and Security > Save Clips on Honk > ON** to enable. The most recent ten minutes of footage is saved. You can also save Dashcam footage by touching the Dashcam icon at the top of the touchscreen.



Carrying Capacity- Accessories

The towing package allows you to tow a trailer or carry an accessory (bicycles, skis, snowboards, etc.) with your Model 3.

The tow package includes a weight-carrying hitch with a 50 mm ball coupling that can support an accessory carrier. When carrying accessories, the ball coupling is designed to support vertical loads of up to 55 kg. When carrying bicycles or other items on the Model 3 hitch, always check to ensure that the maximum weight is not exceeded. Maximum weight capacity for the tow hitch depends on the number of occupants in the vehicle:

	18 or 19" Tires	20" Tires
 <p>Five occupants in the vehicle.</p>	55 kg	20 kg
 <p>Two or fewer rear occupants in the vehicle.</p>	55 kg	55 kg

When calculating weight, remember to include the weight of the accessory carrier.



NOTE: The weights shown previously are for Tesla recommended accessory carriers. They are based on measuring the vertical and horizontal distances between the accessory carrier's center of gravity and the ball of the hitch (see the example image in [Non-Tesla Approved Accessory Carriers on page 96](#) for reference).



CAUTION: Exceeding the maximum weight the Model 3 hitch is designed to support (as previously described) can cause significant damage.



CAUTION: Do not attempt to install an accessory carrier on Model 3 that is not equipped with the towing package. Doing so can cause significant damage.

Non-Tesla Approved Accessory Carriers

In addition to calculating the weight, it is important to ensure your accessory's overall load does not exceed the specified weight and distance from the ball on the hitch. This distance is calculated based on the center of gravity of the accessory carrier and the items mounted to it. For non-Tesla approved carriers, measure the vertical and horizontal distances from the ball on the tow hitch to the accessory's center of gravity.

NOTE: Consult the product details of your accessory carrier for more information, such as additional weight or load limits. Damage caused by non-Tesla approved accessories is not covered by the warranty.



Installing and Using a Carrier

To install and use an accessory carrier, the tow hitch must be connected (see [Connecting the Tow Hitch on page 101](#)). Then, follow the instructions provided by your accessory carrier. Observe all regulations and legal requirements in your state or region that apply to carrying accessories.

The Model 3 towing package includes the wiring necessary for using an accessory carrier equipped with lights (see [Electrical Connections on page 103](#)). The package also includes Trailer Mode software compatibility (see [Trailer Mode on page 100](#)).



When you connect an accessory carrier's wiring harness, Model 3 detects a connection for trailer lights and this indicator illuminates on the touchscreen to show that Trailer Mode is disabled.

NOTE: Go to <http://www.tesla.com> to purchase accessories for your Model 3. Although third-party products are available, Tesla recommends and supports only Tesla-approved products (see [Parts and Accessories on page 217](#)). The accessory products available for your vehicle vary based on market region. Before attempting to install a non-Tesla recommended carrier, review the product information to ensure compatibility.



NOTE: When not in use, the hitch should be removed and stored in a dry location to prevent dust and corrosion. Keep the dust cover over the hitch housing to prevent dirt and debris from entering (see [Disconnecting the Tow Hitch on page 102](#)).



CAUTION: A carrier may obscure your view from the rear view mirror, the rear camera(s), and/or the rear ultrasonic sensors. In addition, some Autopilot features may not function as expected.

NOTE: Tesla assumes no responsibility for damage or injuries resulting from installing and using an accessory carrier, for any omissions in the instructions accompanying an accessory carrier, or for your failure to follow the instructions. Damage caused by using an accessory carrier is not covered by the warranty.

Carrying Capacity- Trailer Towing

Refer to the Certificate of Conformity (provided at the time of your vehicle's purchase), statutory plate (see [Statutory Plate on page 219](#)), or tow hitch label for the total trailer weight—including all cargo and additional equipment—and the trailer tongue weight Model 3 can safely carry. In addition to the maximum total trailer weight and trailer tongue weight, observe the following guidelines:

- For trailers weighing more than 750 kg, a separate trailer braking system with an independent controller must be used. Carefully follow the instructions provided by the trailer brake manufacturer to ensure that trailer brakes are properly installed, adjusted, and maintained.
- The tongue weight is the downward force that the weight of the trailer exerts on the hitch. It must be at least 4% of the total trailer load. Carrying a significant amount of equipment, passengers, or cargo in the tow vehicle can reduce the tongue weight it can handle, which also reduces the maximum towing capacity. Maximum towing capacity is calculated assuming the GVWR (Gross Vehicle Weight Rating) is not exceeded (See [Vehicle Loading on page 219](#)).

NOTE: If the information in the Certificate of Conformity, hitch label, or Statutory Plate conflicts with the information provided in this owner's manual, the former documents take precedence.



CAUTION: You should only use Model 3 to tow if you have experience and knowledge of how towing affects the vehicle and are able to safely load, secure, and maneuver the vehicle and cargo. Tesla's instructions are not all-inclusive of the knowledge and skills necessary for safe towing. Damage caused by towing a trailer is not covered by the warranty.



WARNING: Do not overload the vehicle or trailer. Doing so can cause poor performance, vehicle damage and loss of vehicle control, resulting in serious injury.



WARNING: Do not use the trailer hitch to transport Model 3 (see [Instructions for Transporters on page 235](#)).

Tire Pressures when Towing

When towing a trailer, tire pressures must be adjusted to accommodate the additional load. 18", 19", or 20" tires are acceptable to use for towing. Keep tires inflated to the pressures shown below (if different, these pressures override the pressures that are provided on the Tire and Loading information label):

Front Tires	Rear Tires	Cold Tire Inflation Pressure
235/45R18	235/45R18	42 psi (290 kPa)



Towing and Accessories

Front Tires	Rear Tires	Cold Tire Inflation Pressure
235/40R19	235/40R19	42 psi (290 kPa)
235/35R20	235/35R20	42 psi (290 kPa)
245/35R20	245/35R20	42 psi (290 kPa)

NOTE: When towing a trailer, the technically permissible maximum mass on the rear axle may be exceeded by no more than 15% and the technically permissible laden mass of the vehicle may be exceeded by no more than 100 kg. In these instances, vehicle speed cannot exceed 100 km/h and the rear tire pressures must be at least 20 kPa above the tire pressure recommended for normal use.

NOTE: For information on towing with winter tires, contact Tesla Service.



CAUTION: Do not use Model 3 for towing if equipped with tires that are not listed above.



WARNING: Check tire pressures using an accurate pressure gauge when tires are cold. Driving 1.6 km warms the tires sufficiently to affect tire pressures. Parking the vehicle in direct sunlight or in hot weather can also affect tire pressures. If you must check warm tires, expect increased pressures. Do not let air out of warm tires in an attempt to match recommended cold tire pressures. A hot tire at or below the recommended cold tire inflation pressure may be dangerously under-inflated.



WARNING: Never attempt to tow a trailer when a Model 3 tire is faulty or has been temporarily repaired (for example, using a tire repair kit). A temporarily repaired tire is not designed to sustain the towing load. Towing using a faulty or temporarily repaired tire can result in tire failure and loss of vehicle stability.



Before Towing a Trailer

Before towing a trailer, you must do the following:

- Inflate tires to the cold tire inflation pressure specified in [Tire Care and Maintenance on page 201](#).
- Observe all regulations and legal requirements that apply to trailer towing. Failure to comply with regulations can compromise your safety.
- Adjust side mirrors to provide a clear rear view without a significant blind spot.
- Engage **Trailer Mode** (see [Trailer Mode on page 100](#)).

Confirm the following:

- Model 3 rests horizontally with the trailer attached. If the vehicle is tipped up at the front, and down at the rear, check that you are not exceeding the maximum towing capacity and tongue loads provided in [Carrying Capacity- Trailer Towing on page 97](#).
- All trailer hitch parts and attachments, safety chains, and electrical connectors (including reverse and fog lights, if equipped) are in good condition and are properly connected. If any problems are apparent, do not tow the trailer.
- Trailer lights (brake lights, turn signal lights, and marker lights) are working properly.
- The trailer tongue is securely connected to the hitch ball.
- Safety chains are properly connected between the trailer and the tow vehicle. Cross the safety chains under the tongue of the trailer to help prevent the tongue from contacting the road if it separates from the hitch. Leave enough slack in the safety chains to allow for turns and ensure that the chains do not drag on the ground.
- All cargo is secured.
- Wheel chocks are available.

- The trailer load is evenly distributed such that the trailer tongue weight is approximately 4-10% of the total trailer weight, without exceeding the maximum tongue weights provided in [Carrying Capacity- Trailer Towing on page 97](#).



CAUTION: Loads that are balanced over the wheels or heavier in the rear can cause trailer sway, resulting in loss of vehicle control.



WARNING: Always ensure that cargo is secured in the trailer and will not shift. Dynamic load shifts can cause loss of vehicle control, resulting in serious injury.

Towing Guidelines

Model 3 is designed primarily as a passenger-carrying vehicle. Towing a trailer puts additional load on the motor(s), drive train, brakes, tires, and suspension and significantly decreases range. If you decide to tow a trailer, proceed with caution and follow these general guidelines:

- Reduce your driving speed and avoid sudden maneuvers. Keep in mind that when towing a trailer, steering, stability, turning radius, stopping distance and braking performance are different when compared to driving without a trailer.
- Increase your following distance by maintaining at least twice the distance from the vehicle ahead. This helps to avoid situations that require heavy braking. Sudden braking may result in skidding or jack-knifing, and loss of control.
- Avoid sharp turns. Sharp turns can cause the trailer to contact the vehicle and cause damage. Keep in mind that the trailer wheels are closer to the inside of the turn than the vehicle's wheels. Therefore, make wider turns to prevent the trailer from hitting curbs, road signs, trees or other objects.
- Periodically check the trailer lights and turn signals to confirm that the bulbs are still working. When towing a trailer, the turn signal arrows on the touchscreen flash as normal, even if the bulbs on the trailer are burned out.
- Periodically confirm the cargo is secure.



Towing and Accessories

- Avoid parking on a grade (see [Parking with a Trailer on page 100](#)).
- Regularly confirm that all towing components are securely tightened.



WARNING: Towing requires you to increase your stopping distance. When towing, increase your following distance and avoid situations that could potentially cause heavy braking. Failure to do so can result in a collision.



WARNING: Observe all regulations and legal requirements in your jurisdiction that apply specifically to trailer towing. Failure to comply with regulations can compromise your safety.



WARNING: Never attempt to connect trailer brakes to the vehicle braking system. Doing so can cause damage to the vehicle and the trailer, and can cause the braking system to malfunction, resulting in serious injury.

Trailer Mode

Trailer Mode must always be active when towing a trailer. When you connect a trailer's electrical connection while the vehicle is in Park, Model 3 automatically engages Trailer Mode. When you disconnect the trailer's electrical connection, Trailer Mode does not disengage automatically. To manually engage or disengage Trailer Mode, touch **Controls > Driving > Trailer Mode** on the touchscreen. One of the following indicators display on the touchscreen:

	Trailer Mode is Active.
	Model 3 detects a connection for trailer lights but Trailer Mode is disabled. It is likely that a carrying accessory has been connected.

	Model 3 detects a faulty electrical connection for the trailer lights. Some, or all, trailer lights may not be functioning. Pull over as soon as safety permits and inspect the trailer lights for faulty cabling or connections. If the issues are resolved and the red icon still persists, turn Trailer Mode off and on once more.
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Some Autopilot features, as well as rear parking sensor functionality, may not be available when Trailer Mode is enabled. In addition, these features operate differently:

- Traffic-Aware Cruise Control increases the following distance from the vehicle in front of you.
- Side collision warnings are active but automatic steering interventions are disabled.
- The braking force provided by Automatic Emergency Braking (see [Collision Avoidance Assist on page 139](#)) may be limited.



WARNING: Do not rely on Model 3 to detect the trailer and automatically engage Trailer Mode. Always check to ensure that Trailer Mode is engaged before towing a trailer.



WARNING: Under no circumstances should you exit Trailer Mode when towing a trailer. Doing so can cause serious injury.

Parking with a Trailer

Whenever possible, avoid parking on a grade. However, if parking on a grade is absolutely necessary, place wheel chocks under the trailer wheels. Consider having someone help you with these steps:

- One person presses and holds the brake pedal.
- A second person places the wheel chocks under the wheels on the downgrade side of the vehicle's tires.



- When the chocks are in place, release the brake pedal and ensure the chocks hold the weight of the vehicle and trailer.

NOTE: When testing chocks, ensure that Vehicle Hold (see [Vehicle Hold on page 85](#)) is not engaged. If Vehicle Hold is braking Model 3, the Vehicle Hold indicator light displays on the touchscreen. To disengage Vehicle Hold, press and release the brake pedal.

- Place the vehicle in Park. This engages the parking brake.



WARNING: If parking on a grade is necessary, always ensure that all trailer wheels have been securely chocked. Failure to do so can result in serious damage or injury.

Connecting the Tow Hitch

The Model 3 towing package includes a weight-carrying hitch with a 50 mm ball coupling. When not in use, the hitch should be removed and stored in a dry location to prevent rust and corrosion. Keep the dust cover over the hitch housing to prevent dirt and debris from entering.



WARNING: You must use the Model 3 trailer hitch when towing a trailer. Never attempt to attach a different type of trailer hitch.

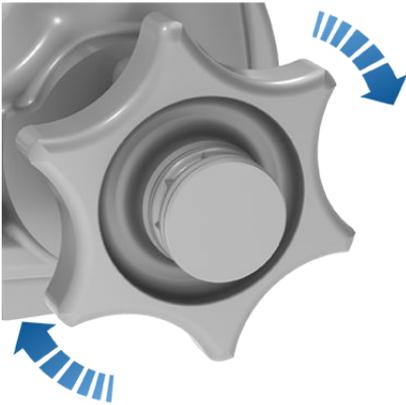
NOTE: Always attach safety chains when towing. Cross the chains under the trailer tongue and attach to the trailer eyelets to ensure the security of the trailer load.

To install the trailer hitch:

1. Remove the dust cover from the hitch housing by inserting a small object, such as a flat screwdriver, into the push clips on each side of the dust cover. Turn the push clips until they are in an unclapsed position, take them out, and remove the dust cover.



2. Insert the key into the locking cylinder on the hitch, and turn the cylinder so the top of the key is aligned with the “Open” position.
3. Pull the locking cylinder out of the adapter approximately 0.5 cm, and turn clockwise until the Unlock icon is fixated at the top of the locking cylinder.



CAUTION: Be careful when turning the locking cylinder. If it does not lock into the "Open" position, it automatically retracts into its original "Closed" position and can pinch your fingers.

4. Firmly grasp the hitch from the bottom and align with the corresponding cutouts in the hitch housing.

NOTE: Do not grasp the locking cylinder because it needs to rotate freely.

5. Push the hitch into the hitch housing until the locking cylinder quickly rotates counter-clockwise and automatically locks into the "Closed" position.

6. Check to confirm that the hitch is fully inserted into the housing by pulling down on the hitch. The hitch should not drop when you pull down.

NOTE: If the hitch does not lock into the housing, it falls out when you pull down on the hitch.

7. Turn the key so the arrows align with the Lock icon on the locking cylinder.

8. Remove the key and store it in a safe place (preferably inside the vehicle).

NOTE: The key can be removed only if the hitch is locked. This indicates a proper connection. Do not use the hitch if the key is not removed.

NOTE: Tesla recommends making a note of the key code. You need this key code if you lose the keys and need to order a replacement.

Disconnecting the Tow Hitch

After towing, remove the hitch:

1. Insert the key and turn to align the top of the key with the Unlock icon.

2. While firmly holding the bottom of the hitch (to prevent it from dropping to the ground), pull the locking cylinder out approximately 0.5 cm, and turn it clockwise until the Lock icon shifts to the top. At this point, the locking cylinder is unlocked in the "Open" position and the hitch drops out of the housing.



WARNING: Be careful when turning the locking cylinder. If it does not lock into the "Open" position, it automatically retracts into its original "Closed" position and can pinch your fingers.

3. Reinstall the dust cover on the hitch housing to prevent dirt from accumulating inside the housing by snapping in the push clips.

4. Close the dust cover on the hitch's locking cylinder and store the hitch in a secure location.

NOTE: To maintain the hitch, regularly grease its surface with non-resinous grease.



Electrical Connections

Regulations require all trailers to be equipped with tail lights, brake lights, side marker lights, and turn signals. To provide power for trailer lighting, a built-in 7-pin wiring connector is provided near the hitch support's wiring plugs for most types of trailers.



1. Left Turn Signal
2. Rear Fog
3. Ground for pins 1-8
4. Right Turn Signal
5. Right Tail Signal
6. Stop Lamps
7. Left Tail Lamp
8. Reverse Lamps

NOTE: Pins 9-13 are not supported at this time because Model 3 is not currently equipped with brake controllers.

NOTE: All pins have 12V power.

NOTE: It is the driver's responsibility to ensure that all electrical connections are working and all trailer lights are operating before and during towing. You must perform manual checks.

NOTE: Loss of trailer lights when towing may be the result of a blown fuse. Model 3 does not provide a warning if the fuse is blown. Contact Tesla Service.

NOTE: If a trailer fog light is detected, Model 3 disables its rear fog light (if equipped).



CAUTION: Always ensure that the trailer electrical cable does not contact or drag on the ground and there is enough slack in the cable to allow for turns.



WARNING: Use only the electrical connections designed by Tesla. Do not attempt to directly splice or attempt to connect a trailer's electrical wiring using any other method. Doing so can damage the vehicle's electrical system and cause malfunctions.

Impact on Range

Towing a trailer increases vehicle weight and drag. As a result, driving range can decrease significantly. Although Trip Planner attempts to adjust estimates based on Trailer Mode, actual energy consumption may vary. Plan trip length and charging destinations accordingly.



The following best practices can help ensure that you have the best ownership experience possible in harsh cold weather conditions.

Before Driving

Warm the cabin and Battery ahead of departure for maximum range and performance. There are several ways to precondition your vehicle:

- **Mobile app preconditioning:** On the mobile app, navigate to **Climate > Turn On Climate** and set to **H** or customize the temperature at which you want to heat the cabin, which also helps thaw ice on the charge port latch and warms the Battery as needed (see [Mobile App on page 186](#)).

- **Mobile app defrost:** On the mobile app, navigate to **Climate > Defrost** to melt snow, ice, and frost on the windshields, driver and passenger windows, mirrors, and charge port. The Battery also warms as needed.

NOTE: Tesla recommends activating the climate settings at least 30-45 minutes before departure (see [Climate Controls on page 154](#)). Preconditioning times depend on outside temperature and other factors.

- **Scheduled Departure:** Use to preset a time at which you want your vehicle to be ready to drive (see [Scheduled Charging and Scheduled Departure on page 197](#)).

When snow and ice accumulate on your vehicle, moving parts, such as the door handles, windows, mirrors, and wipers can freeze in place.

Door Handles

- If the door handles are frozen in place, you can usually remove the ice with a few forceful bumps to the door handle using the bottom of your fist. See [Removing Ice From Door Handle on page](#) for more information.
- To proactively prevent ice buildup, apply WD-40 to the door handle pivot pins if you are expecting freezing rain, heavy snow, or icy conditions. Reapply as needed (see [Applying WD-40 to Door Handle Pivot Pins on page](#)).

Windows

- On the mobile app, navigate to **Climate > Defrost** as mentioned previously. Your vehicle heats the driver and passenger windows to help melt any ice that would prevent the windows from moving.
- Model 3 automatically adjusts the window positioning slightly to make it easier to open the doors when ambient temperatures are cold.
- Use the mobile app to schedule a service appointment where Tesla can provide hydrophobic coating to your windows for a nominal fee.

Mirrors

If ice buildup is expected when parking, turn off **Auto-Fold Mirrors** by navigating to **Controls > Mirrors > Auto-Fold**. Ice can prevent exterior side mirrors from folding or unfolding.

NOTE: The side mirrors automatically heat as needed during preconditioning or if the rear defroster is activated.

Wipers

If snow or ice buildup is expected when parking, navigate to **Controls > Service > Wiper Service Mode > ON**. This raises your wipers so they are against the windshield and they can defrost while the windshield defrosts (see [Wipers and Washers on page 76](#)).

Winter Tires and Tire Chains

- Use winter tires to increase traction in snowy or icy conditions. You can purchase winter tires on <http://www.tesla.com> (see [Seasonal Tire Types on page 206](#)).
- Tire chains provide additional traction when driving in snowy or icy conditions. Check your local regulations to see if tire chains are recommended or required during winter months. See [Using Tire Chains on page 207](#) for more information.



While Driving

Cold weather can increase energy consumption because more power is required for driving, cabin and Battery heating. Follow these suggestions to reduce energy consumption:

- Using the seat heaters to keep warm is more efficient than using climate controls. Lowering the cabin temperature and using seat heaters will reduce energy consumption (see [Climate Controls on page 154](#)).
- Slow down your driving and avoid frequent and rapid acceleration.

Regenerative Braking

Regenerative braking may be limited if the Battery is too cold. As you continue to drive, the Battery warms up and regenerative power increases (see [Regenerative Braking on page 78](#)).

NOTE: Limited regenerative braking can be avoided if you allow enough time to precondition your vehicle or use scheduled departure before your drive, as mentioned previously.

NOTE: Installing winter tires may result in temporarily reduced regenerative braking power but Model 3 will recalibrate itself to correct this after a short period of driving.

Blue Snowflake Icon



A blue snowflake icon appears on your touchscreen when some of the stored energy in the Battery may not be available due to cold Battery temperature. This portion of unavailable energy displays in blue on the Battery meter. Regenerative braking, acceleration, and charging rates may be limited. The snowflake icon no longer displays when the Battery is sufficiently warmed.

Warming the Battery Before Supercharging

If you are using Trip Planner (see [Trip Planner on page 165](#)) and navigate to a Supercharger station, your vehicle will allocate energy to pre-heat the Battery in cold weather. This ensures you arrive at the Supercharger with an optimal Battery temperature, reducing the amount of time it takes to charge.

Autopilot

To ensure optimal Autopilot performance, keep the sensors and radar free of snow, ice, mud, and dirt (see [About Autopilot on page 108](#)).

After Driving

Leave Model 3 plugged in when not in use. This uses the charging system, rather than the Battery itself, to keep your Battery warm (see [Battery Information on page 191](#)).

Scheduled Departure

When parked, plug in Model 3 and set a time at which you want your vehicle to be ready to drive. Your vehicle determines the appropriate time to begin charging so that charging is complete and the cabin and Battery are warm by your set departure time. See [Scheduled Charging and Scheduled Departure on page 197](#) for more information.

Charge Port

- If your charge port latch freezes in place and a charging cable becomes stuck in the charge port, try manually releasing the charge cable. See [Manually Releasing Charge Cable on page 194](#).
- Use the mobile app to precondition your vehicle on **HI** to help thaw ice on the charge port latch so that the charge cable can be removed or inserted (see [Mobile App on page 186](#)).

NOTE: If your charge port latch is frozen in place, it may not lock the charging cable in place when inserted, but it is still able to AC charge at a slower rate even if the latch is not engaged.



Storage

If you leave Model 3 parked for an extended period of time, plug it into a charger to prevent normal range loss and maintain the Battery at an optimal temperature. Your vehicle is safe to say plugged in for any length of time.

When not in use, Model 3 automatically enters a sleep mode to conserve range and energy. Reduce the number of times you check your vehicle's status on the mobile app, as this automatically wakes up your vehicle and starts normal energy consumption.

NOTE: See [Wipers on page 104](#) and [Mirrors on page 104](#) for more information on preventing ice buildup when parking your vehicle.

Removing Ice From Door Handle

In severe winter conditions, ice buildup within the door handle can prevent the door handle from opening. The process for freeing a Model 3 door handle is slightly different than other door handles; you can usually remove the ice with a few forceful bumps to the door handle using the bottom of your fist.



CAUTION: Remove any jewelry or objects that can damage the paint prior to performing the procedure, and do not attempt to use tools or excessive force.

NOTE: Preemptively applying WD-40 to the door handle pivot pins can help prevent ice buildup inside your door handle. See [Applying WD-40 to Door Handle Pivot Pins on page](#) for instructions.

Perform the following to remove ice from the door handle:

1.

Forcefully press the rear-most part of the door handle to initially try to open the door handle and release light or moderate ice buildup.

2.

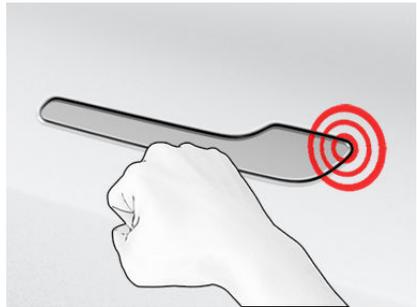
Working in a circular pattern around the perimeter of the door handle, use the bottom of your fist to forcefully bump the door handle to break and release the ice buildup.

3.

Aiming for the rearmost end of the wide part of the door handle, use the bottom of your fist to forcefully bump the door handle. Increase the intensity of the bumps as necessary, repeating steps 1 and 2 until the ice is removed and the door handle can be opened.



CAUTION: Never bump the vehicle so hard as to cause a dent; the force used should be similar to knocking on your neighbor's front door.



4.

Once the door handle is able to move, open and close it a few more times to release any remaining ice buildup. Make sure the door handle is fully pressed in (retracted) prior to entering the vehicle, and check that the door is fully closed before driving away.

Applying WD-40 to Door Handle Pivot Pins

In severe winter conditions, applying WD-40 to door handle pivot pins can help prevent ice buildup that might immobilize the handle. Consider applying WD-40 to the door handle pivot pins if you are expecting freezing rain, heavy snow, or icy conditions. Reapply as needed.



CAUTION: Read and observe the instructions and warnings provided by WD-40 prior to performing this procedure.

To apply WD-40 to the door handle pivot pin:

1.

Open the door handle and prop it open using a folded towel or other soft material.

2.

Attach the provided straw to the nozzle of the WD-40 bottle.

3.

Put on eye protection.

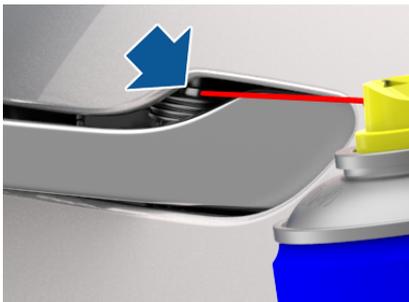
4.

Place the end of the straw next to the pivot pin and spray it for approximately one second, taking care not to accidentally spray other components.

NOTE: Rest the end of the straw on the top of the spring around the pivot pin to better aim the spray.



WARNING: Make sure eye protection is worn when performing this step.



5.

Remove the towel or other soft material used to prop the door handle open.

6.

Pivot the door handle in and out approximately ten times.

7.

For a second time, place the end of the straw next to the pivot pin and spray it for approximately one second, taking care not to accidentally spray other components.

NOTE: Rest the end of the straw on the top of the spring around the pivot pin to better aim the spray.

8.

Remove the towel or other soft material used to prop the door handle open.

9.

Pivot the door handle in and out approximately ten times.

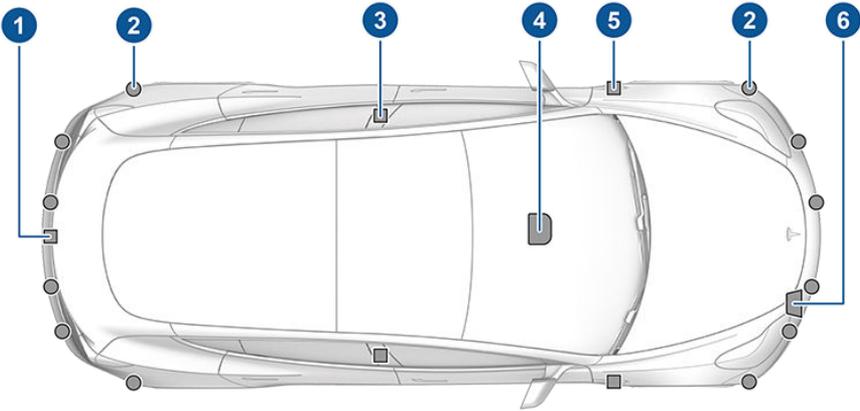
10.

Perform this procedure on the other three door handles.



How It Works

Your Model 3 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 3 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 110](#) for more information. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



Features

These safety features are available on all Model 3 vehicles:

- 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 69](#)).

These Autopilot convenience features are designed to reduce driver workload:

- Traffic-Aware Cruise Control (see [Traffic-Aware Cruise Control on page 111](#))
- Autosteer (see [Autosteer on page 118](#))
- Auto Lane Change (see [Auto Lane Change on page 120](#))
- 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 123](#))

NOTE: Depending on market region, options purchased, and software version, your vehicle may not be equipped with all Autopilot features.

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

Drive to Calibrate Cameras

Model 3 must maneuver with a great deal of precision when Autopilot features are being used. Therefore, before some features (for example, Traffic-Aware Cruise Control or Autosteer) can be used for the first time or after certain Service repairs, the cameras must complete a self-calibration process. For your convenience, a progress indicator is displayed on the touchscreen.

Calibration typically completes after driving 32-40 km, but the distance varies depending on road and environmental conditions. Driving on a straight road with highly-visible lane lines allows Model 3 to calibrate quicker. When calibration is complete, the Autopilot features are available for use. Contact Tesla only if your Model 3 has not completed the calibration process after driving 160 km.

NOTE: If you attempt to use a feature that is not available until the calibration process is complete, the feature will not be enabled and the touchscreen displays a message.

NOTE: Model 3 must repeat the calibration process if the cameras are serviced by Tesla, and in some cases, after a software update.

Limitations

Many factors can impact the performance of Autopilot components, causing them to be unable to function as intended. These include (but are not limited to):

- Poor visibility (due to heavy rain, snow, fog, etc.).
- Bright light (due to oncoming headlights, direct sunlight, etc.).
- Damage or obstructions caused by mud, ice, snow, etc.
- Interference or obstruction by object(s) mounted onto the vehicle (such as a bike rack).
- Obstruction caused by applying excessive paint or adhesive products (such as wraps, stickers, rubber coating, etc.) onto the vehicle.
- Narrow or winding roads.
- A damaged or misaligned bumper.
- Interference from other equipment that generates ultrasonic waves.
- Extremely hot or cold temperatures.



About Autopilot



WARNING: The list above does not represent an exhaustive list of situations that may interfere with proper operation of Autopilot components. Never depend on these components to keep you safe. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.



CAUTION: If a windshield replacement is needed, take your vehicle to Tesla Service. This will ensure appropriate handling and mounting of the camera(s). Failure to do so can cause one or more Autopilot features to malfunction.

Cleaning Cameras and Sensors

To ensure the various Autopilot components can provide information that is as accurate as possible, keep them clean and free of obstructions, condensation, or damage. Occasionally remove any buildup of dirt by wiping the components with a soft cloth dampened with warm water.

Condensation can form inside the camera enclosures, especially if you park your vehicle outside in cold or wet conditions. The touchscreen may display an alert stating that a camera is blocked and that some or all Autopilot features may be temporarily restricted until the camera vision is clear. To proactively dry the condensation, precondition the cabin by setting it to a warm temperature, turning the windshield defroster on, and directing the front air vents toward the door pillars (see [Mobile App on page 186](#)).



CAUTION: Do not use chemical-based or abrasive cleaners. Doing so can damage surfaces.



CAUTION: Avoid using a high-pressure power washer.



CAUTION: Do not clean an ultrasonic sensor or camera lens with a sharp or abrasive object that can scratch or damage its surface.



NOTE: Traffic-Aware Cruise Control is a BETA feature.

NOTE: If your vehicle is not equipped with an optional Autopilot package, refer to the owner's manual on your vehicle's touchscreen for instructions on how to use Cruise Control.

Traffic-Aware Cruise Control (if equipped) uses the forward looking cameras and the radar sensor to determine when there is a vehicle in front of you in the same lane. If the area in front of Model 3 is clear, Traffic-Aware Cruise Control maintains a set driving speed. When a vehicle is detected, Traffic-Aware Cruise Control is designed to slow down Model 3 as needed to maintain a selected time-based distance from the vehicle in front, up to the set speed. Traffic-Aware Cruise Control does not eliminate the need to watch the road in front of you and to manually apply the brakes when needed.

Traffic-Aware Cruise Control is primarily intended for driving on dry, straight roads, such as highways and freeways. It should not be used on city streets.



CAUTION: Ensure all cameras and sensors are clean before each drive. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Traffic-Aware Cruise Control is designed for your driving comfort and convenience and is not a collision warning or avoidance system. It is your responsibility to stay alert, drive safely, and be in control of the vehicle at all times. Never depend on Traffic-Aware Cruise Control to adequately slow down Model 3. Always watch the road in front of you and be prepared to take corrective action at all times. Failure to do so can result in serious injury or death.



WARNING: Although Traffic-Aware Cruise Control is capable of detecting pedestrians and cyclists, never depend on Traffic-Aware Cruise Control to adequately slow Model 3 down for them. Always watch the road in front of you and be prepared to take corrective action at all times. Failure to do so can result in serious injury or death.



WARNING: Do not use Traffic-Aware Cruise Control on city streets or on roads where traffic conditions are constantly changing.



WARNING: Do not use Traffic-Aware Cruise Control on winding roads with sharp curves, on icy or slippery road surfaces, or when weather conditions (such as heavy rain, snow, fog, etc.) make it inappropriate to drive at a consistent speed. Traffic-Aware Cruise Control does not adapt driving speed based on road and driving conditions.

To Use Traffic-Aware Cruise Control

To use Traffic-Aware Cruise Control, you must be driving at least 30 km/h, unless a vehicle is detected ahead of you. If a vehicle is detected ahead of you, you can use Traffic-Aware Cruise Control at any speed, even when stationary, provided Model 3 is at least 150 cm behind the detected vehicle.



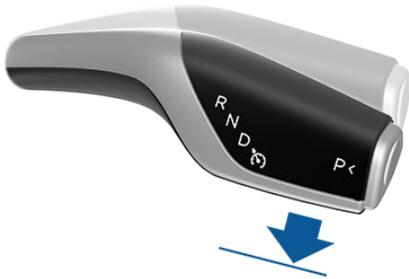
When Traffic-Aware Cruise Control is available but is not actively cruising at a specified set speed, the touchscreen displays a gray speedometer icon below your current driving speed. The number shown in gray is your current driving speed, or the speed limit that is being determined by Speed Assist (see [Controlling Speed Assist on page 143](#)), whichever is greater. If you engage Traffic-Aware Cruise Control, this is the cruising speed that will be set.

NOTE: On roads where the map data determines that a conditional speed limit exists (for example, a speed limit based on time of day or weather conditions), a second speed limit displays below the first speed limit. It is the driver's responsibility to determine whether the conditional speed limit is currently in effect and adjust the driving speed accordingly.

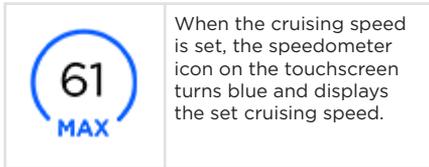


Set the Cruising Speed

To set the cruising speed, move the cruise control lever fully down once then release. This sets the cruising speed to the detected speed limit (plus any offset you've specified using Speed Assist as described in [Controlling Speed Assist on page 143](#)) or your current driving speed, whichever is greater.



Release the accelerator pedal to allow Traffic-Aware Cruise Control to maintain your cruising speed.



NOTE: Moving the gear level fully down twice in quick succession engages Autosteer (assuming it has been enabled as described in [Autosteer on page 118](#)) and the set speed changes to either your current driving speed, or the current set speed (displayed in the icon), whichever is greater.

NOTE: The minimum speed you can set is 30 km/h and the maximum is 150 km/h. It is the driver's responsibility to cruise at a safe speed based on road conditions and speed limits.



WARNING: When cruising at the speed limit, the cruising speed does not change when the speed limit changes. If your driving speed is at or below the new speed limit, move the lever up to cancel Traffic-Aware Cruise Control, then move it back down again to re-initiate and cruise at the new speed limit. You can also manually adjust your cruising speed (see [Changing the Set Speed on page 113](#)).



WARNING: Do not rely on Traffic-Aware Cruise Control or Speed Assist to determine an accurate or appropriate cruising speed. Always cruise at a safe speed based on road conditions and applicable speed limits.

Cruising at the Set Speed

Traffic-Aware Cruise Control maintains your set cruising speed whenever a vehicle is not detected in front of Model 3. When cruising behind a detected vehicle, Traffic-Aware Cruise Control accelerates and decelerates Model 3 as needed to maintain a chosen following distance (see [Adjust the Following Distance on page 115](#)), up to the set speed.

Traffic-Aware Cruise Control also adjusts the cruising speed when entering and exiting curves.

You can manually accelerate at any time when cruising at a set speed, but when you release the accelerator, Traffic-Aware Cruise Control resumes cruising at the set speed.

NOTE: When Traffic-Aware Cruise Control is actively slowing down Model 3 to maintain the selected distance from the vehicle ahead, brake lights turn on to alert other road users that you are slowing down. You may notice slight movement of the brake pedal. However, when Traffic-Aware Cruise Control is accelerating Model 3, the accelerator pedal does not move.



WARNING: Traffic-Aware Cruise Control may occasionally cause Model 3 to brake when not required or when you are not expecting it. This can be caused by closely following a vehicle ahead, detecting vehicles or objects in adjacent lanes (especially on curves), etc.



WARNING: Due to limitations inherent in the onboard GPS (Global Positioning System), you may experience situations in which Traffic-Aware Cruise Control slows down the vehicle, especially near highway exits where a curve is detected and/or you are actively navigating to a destination and not following the route.



WARNING: Traffic-Aware Cruise Control cannot detect all objects and, especially in situations when you are driving over 80 km/h, may not brake/ decelerate when a vehicle or object is only partially in the driving lane or when a vehicle you are following moves out of your driving path and a stationary or slow-moving vehicle or object is in front of you. Always pay attention to the road ahead and stay prepared to take immediate corrective action. Depending on Traffic-Aware Cruise Control to avoid a collision can result in serious injury or death. In addition, Traffic-Aware Cruise Control may react to vehicles or objects that either do not exist or are not in the lane of travel, causing Model 3 to slow down unnecessarily or inappropriately.



WARNING: Traffic-Aware Cruise Control may be unable to provide adequate speed control because of limited braking capability and hills. It can also misjudge the distance from a vehicle ahead. Driving downhill can increase driving speed, causing Model 3 to exceed your set speed (and potentially the road's speed limit). Never depend on Traffic-Aware Cruise Control to slow down the vehicle enough to prevent a collision. Always keep your eyes on the road when driving and be prepared to take corrective action as needed. Depending on Traffic-Aware Cruise Control to slow the vehicle down enough to prevent a collision can result in serious injury or death.

Passing Vehicles in Non-Passing Lanes

If traveling 80 km/h or faster, Traffic-Aware Cruise Control requires that you be in a passing lane in order to pass a vehicle. If you are in a non-passing lane (to the right of a vehicle in right-hand traffic, or to the left of a vehicle in left-hand traffic), Traffic-Aware Cruise Control prevents you from passing other vehicles. Instead, Model 3 slows down to match the vehicle's speed as if it were in the same lane as your vehicle. If you press the accelerator pedal to pass the vehicle, Traffic-Aware Cruise Control allows you to pass vehicles in the non-passing lane until you either change lanes or cancel and resume cruising (it then prevents you from passing vehicles in a non-passing lane again).

NOTE: You are responsible for complying with all local laws regarding passing other road users and the utilization of non-passing lanes.

Changing the Set Speed

To change the set speed while using Traffic-Aware Cruise Control, roll the right scroll wheel up (to increase) or down (to decrease) the set speed until your desired set speed is displayed. Slowly rolling the scroll wheel changes the set speed in 1 km/h increments and quickly rolling the scroll wheel changes the set speed to the closest 5 km/h increment.





You can also use the touchscreen to change the set speed by touching the plus (+) or minus (-) next to the displayed set speed. A quick tap changes the set speed by 1 km/h and a press and hold changes the set speed to the closest 5 km/h increment. To increase/decrease to the next increment, you must release the plus (+) or minus (-) then press it again.



NOTE: It may take a few seconds for Model 3 to reach the new cruising speed, assuming Model 3 does not detect a vehicle ahead driving slower than your set speed.

If the touchscreen is displaying a speed limit sign, you can touch this sign to set the cruising speed to the current speed limit (plus any offset you've specified using Speed Assist).

HOLD State

When following a vehicle, Traffic-Aware Cruise Control remains active at low speeds, even when Model 3 comes to a full stop. When the vehicle is moving again, Traffic-Aware Cruise Control resumes operating at the set speed. However, under the following circumstances, Traffic-Aware Cruise Control goes into a **HOLD** state, in which case, you need to briefly press the accelerator pedal to resume cruising. When the **HOLD** status is active, the touchscreen displays the **HOLD** icon and a message that indicates that you need to resume cruise control. The following circumstances can cause Traffic-Aware Cruise Control to go into the **HOLD** state:

- Model 3 has been at a standstill for 5 minutes.
- Model 3 detects a pedestrian (the **HOLD** state may clear when the pedestrian is no longer detected).
- Model 3 suddenly loses visibility of the vehicle in front of you.
- The ultrasonic sensors detect an obstacle in front of Model 3.

Cruising Near or On Freeway Exits

When cruising near an exit on a controlled access road (such as a highway or freeway) and engaging the turn signal toward the exit, Traffic-Aware Cruise Control assumes you are exiting and begins to slow down the vehicle. If you do not drive onto the exit, Traffic-Aware Cruise Control resumes cruising at the set speed. In a region with right hand traffic, this occurs only when you engage the right turn signal when driving in the right-most lane within 50 meters of an exit. Likewise in regions with left hand traffic; when engaging the left turn signal when driving in the left-most lane within 50 meters of an exit.

NOTE: The onboard Global Positioning System (GPS) determines if you are driving in a region with right or left hand traffic. In situations where GPS data is unavailable (for example, if there is inadequate signal), engaging the turn signal near an exit does not cause Traffic-Aware Cruise Control to slow down Model 3.

When enabled while on a highway interchange or off-ramp in certain regions, Traffic-Aware Cruise Control may reduce your set speed in 5 km/h increments – to as slow as 40 km/h – to better match the reported speeds of other Tesla vehicles that have driven at that specific location. To override this and continue cruising at your set speed, tap the accelerator pedal or touch the plus (+) or minus (-) button on the touchscreen. The new set speed is maintained for the duration of the interchange or off-ramp (unless you override it or cancel Traffic-Aware Cruise Control). After the interchange or off-ramp, the set speed may revert or change as necessary based on the new location. For example, if you merged onto a different highway, the set speed reverts back to the set speed that was in use before driving on the interchange.

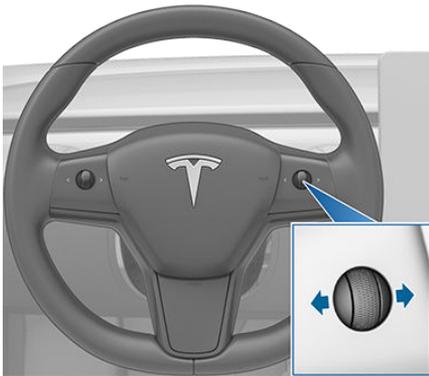


WARNING: In some cases (such as having insufficient data), Traffic-Aware Cruise Control may not automatically reduce the set speed on the highway interchange or off-ramp. Do not rely on Traffic-Aware Cruise Control to determine an appropriate driving speed. Tesla recommends driving at a speed that is safe for road conditions and within posted speed limits.



Adjust the Following Distance

To adjust the following distance you want to maintain between Model 3 and a vehicle traveling ahead of you, press the steering wheel's right scroll button to the left or right to choose a setting from 1 (the closest following distance) to 7 (the longest following distance). Each setting corresponds to a time-based distance that represents how long it takes for Model 3, from its current location, to reach the location of the rear bumper of the vehicle ahead of you.



You can also display and adjust the setting for the following distance on the touchscreen at any time, even when Traffic-Aware Cruise Control is not active. Touch **Controls** > **Autopilot** > **Cruise Follow Distance**, then adjust the following distance by touching plus (+) or minus (-).



As you adjust the following distance, the touchscreen displays the current setting.



NOTE: Your setting is retained until you manually change it.



WARNING: It is the driver's responsibility to determine and maintain a safe following distance at all times. Do not rely on Traffic-Aware Cruise Control to maintain an accurate or appropriate following distance.



WARNING: Never depend on Traffic-Aware Cruise Control to adequately slow down Model 3 to avoid a collision. Always watch the road in front of you and stay prepared to take immediate corrective action.

Overtake Acceleration

When following a vehicle with Traffic-Aware Cruise Control active, briefly engaging the turn signal (to indicate a move into the passing lane) accelerates Model 3 towards the vehicle ahead. By momentarily holding the turn signal lever up or down, you can quickly accelerate up to your set speed without having to press the accelerator pedal. The turn signal causes acceleration only when all of the following conditions are met:

- Traffic-Aware Cruise Control is operating and detects a vehicle in front of you.
- No obstacles or vehicles are detected in the target lane.
- Model 3 is traveling below the set speed, but over 72 km/h.

Overtake Acceleration is intended as an aid when passing a vehicle ahead of you. When the turn signal is engaged, Traffic-Aware Cruise Control continues to maintain distance from the vehicle ahead, but allows you to drive slightly closer than your selected distance.

Acceleration cancels when one of the conditions happen:

- You reach your set cruising speed.
- Changing lanes takes too long.
- Model 3 gets too close to the vehicle ahead.

OR

- You disengage the turn signal.



NOTE: Overtake Acceleration occurs when you hold the turn signal in the momentary position (partially engaged). When you release the turn signal, Model 3 stops accelerating (in the same way as when you release the accelerator pedal) and resumes the set speed.



WARNING: Overtake Acceleration can cancel for many unforeseen reasons in addition to those listed above (for example, lack of GPS data). Stay alert and never depend on Overtake Acceleration to increase your driving speed.



WARNING: Overtake Acceleration increases your driving speed whenever the appropriate turn signal is engaged, and accelerates Model 3 closer to the vehicle ahead. Although Traffic-Aware Cruise Control continues to maintain distance from the vehicle ahead, it is important to be aware that your selected following distance is reduced when Overtake Acceleration is active, particularly in cases where it may not be your intention to overtake the vehicle you are following.

Canceling and Resuming

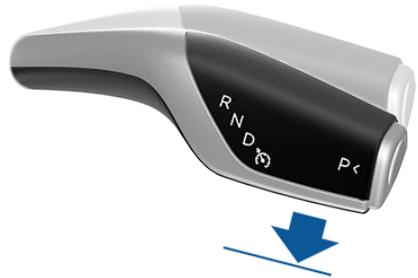
To manually cancel Traffic-Aware Cruise Control, move the gear lever up and release or press the brake pedal. The speedometer icon on the touchscreen turns gray to indicate that Traffic-Aware Cruise Control is no longer active.



WARNING: Do not hold the gear lever up for more than one second. Doing so cancels Traffic-Aware Cruise Control and shifts Model 3 into Neutral.



To re-enable cruising at the current driving speed, move the gear lever fully down once then release.



NOTE: When Traffic-Aware Cruise Control cancels, Model 3 does not coast. Instead, regenerative braking slows down Model 3 in the same way as when you move your foot off the accelerator when driving without Traffic-Aware Cruise Control (see [Regenerative Braking on page 78](#)).



WARNING: Traffic-Aware Cruise Control cancels, or may not be available, in the following situations:

- You press the brake pedal.
- Your driving speed exceeds the maximum cruising speed of 150 km/h.
- You shift Model 3 into a different gear.
- A door is opened.
- The view from the radar sensor or camera(s) is obstructed. This could be caused by dirt, mud, ice, snow, fog, etc.
- The traction control setting is manually disabled or is repeatedly engaging to prevent wheels from slipping.
- The wheels are spinning while at a standstill.
- The Traffic-Aware Cruise Control system is failing or requires service.

When Traffic-Aware Cruise Control is unavailable or cancels, Model 3 no longer drives consistently at a set speed and no longer maintains a specified distance from the vehicle ahead.



WARNING: Traffic-Aware Cruise Control can cancel unexpectedly at any time for unforeseen reasons. Always watch the road in front of you and stay prepared to take appropriate action. It is the driver's responsibility to be in control of Model 3 at all times.

- 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.

Summary of Cruise Indicators

	<p>Traffic-Aware Cruise Control is available but is not actively controlling your speed until you activate it. The number shown in gray is determined by Speed Assist (see Controlling Speed Assist on page 143).</p>
	<p>Traffic-Aware Cruise Control is operating and is either maintaining the set speed (no vehicle in front) or is maintaining a chosen following distance from a vehicle ahead (up to the set speed).</p>
	<p>Model 3 has fully stopped but is in a HOLD state. If safe, press the accelerator pedal to resume cruising at the set speed.</p>

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.).



NOTE: Autosteer is a BETA feature.

Autosteer builds upon Traffic-Aware Cruise Control (see [Traffic-Aware Cruise Control on page 111](#)), intelligently keeping Model 3 in its driving lane when cruising at a set speed. Autosteer also allows you to use the turn signals to move Model 3 into an adjacent lane (see [Auto Lane Change on page 120](#)). Using the vehicle's camera(s), the radar sensor, and the ultrasonic sensors, Autosteer detects lane markings and the presence of vehicles and objects to assist you in steering Model 3.

NOTE: Touch **Controls > Autopilot > Full Self-Driving Visualization Preview** to display more details about the roadway and its surroundings, such as road markings, stop signs, stop lights, objects (such as trash cans and poles), etc.



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Autosteer is a hands-on feature. You must keep your hands on the steering wheel at all times.



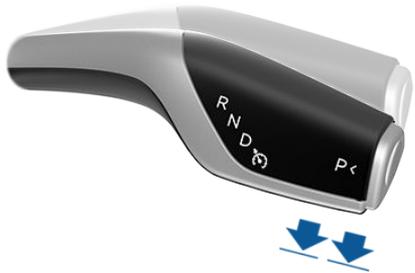
WARNING: Autosteer is intended for use only on highways and limited-access roads with a fully attentive driver. When using Autosteer, hold the steering wheel and be mindful of road conditions and surrounding traffic. Do not use Autosteer on city streets, in construction zones, or in areas where bicyclists or pedestrians may be present. Never depend on Autosteer to determine an appropriate driving path. Always be prepared to take immediate action. Failure to follow these instructions could cause damage, serious injury or death.

Operating Autosteer

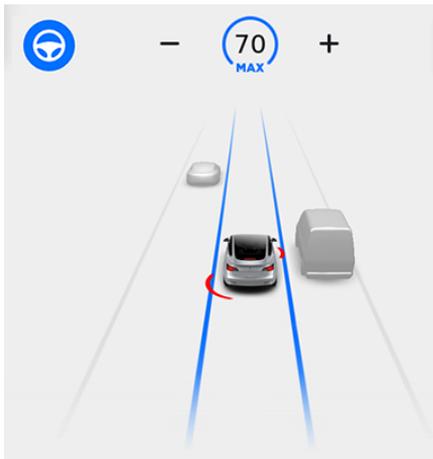
Before you can operate Autosteer, you must enable it by touching **Controls > Autopilot > Autosteer (Beta)**.



To initiate Autosteer, move the gear lever fully down twice in quick succession.



Autosteer briefly displays a message on the touchscreen reminding you to pay attention to the road and have your hands on the steering wheel. To indicate that Autosteer is now actively assisting in steering Model 3, the touchscreen displays the Autosteer icon in blue. When Autosteer is able to detect lane markings, it also displays the driving lane in blue.





NOTE: To initiate Autosteer when there is no vehicle in front of you, you must be driving at least 30 km/h on a roadway with visible lane markings. If a vehicle is detected ahead of you, you can initiate Autosteer at any speed under 150 km/h, even when stationary (if you are at least 150 cm away from the vehicle).

The touchscreen displays a message indicating that Autosteer is temporarily unavailable if you attempted to engage Autosteer when driving at a speed that is not within the speed required for Autosteer to operate. Autosteer may also be unavailable if it is not receiving adequate data from the camera(s) or sensors.

If Autosteer is unable to detect lane markings, the driving lane is determined based on the vehicle you are following.

In most cases, Autosteer attempts to center Model 3 in the driving lane. However, if the sensors detect the presence of an obstacle (such as a vehicle or guard rail), Autosteer may steer Model 3 in a driving path that is offset from the center of the lane.



WARNING: Autosteer is not designed to, and will not, steer Model 3 around objects partially or completely in the driving lane. Always watch the road in front of you and stay prepared to take appropriate action. It is the driver's responsibility to be in control of Model 3 at all times.



WARNING: Steering is limited when Autosteer is enabled. Therefore, Model 3 may not be able to handle tight turns. Be prepared to take control of the vehicle at all times.

Restricted Speed

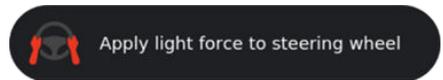
Autosteer is intended for use only by a fully attentive driver on freeways and highways where access is limited by entry and exit ramps. If you choose to use Autosteer on residential roads, a road without a center divider, or a road where access is not limited, Autosteer may limit the maximum allowed cruising speed and the touchscreen displays a message indicating that speed is restricted. The restricted speed can vary depending on whether or not you've specified a speed limit offset. Although you will be unable to increase the cruising speed, you can select a more restrictive cruising speed by reducing the speed limit offset, if applicable, (see

[Controlling Speed Assist on page 143](#)) or by manually reducing the set cruising speed (see [Changing the Set Speed on page 113](#)).

In situations where the speed limit cannot be detected when Autosteer is engaged, Autosteer reduces your driving speed and limits the set speed to 70 km/h. Although you can manually accelerate to exceed the limited speed, Model 3 may not brake for detected obstacles. Autosteer slows down to the limited speed when you release the accelerator pedal. When you leave the road, or disengage Autosteer by using the steering wheel, you can increase your set speed again, if desired.

Hold Steering Wheel

Autosteer uses data from the camera(s), sensors, and GPS to determine how best to assist you in steering Model 3. When active, Autosteer requires you to hold the steering wheel. If it does not detect your hands on the steering wheel for a period of time, a flashing blue light appears at the top of the car status section of the touchscreen and the following message displays:



Autosteer detects your hands by recognizing light resistance as the steering wheel turns, or from you manually turning the steering wheel very lightly (without enough force to retake control).

NOTE: When your hands are detected, the message disappears and Autosteer resumes normal operation.

NOTE: Autosteer may also sound a chime at the same time that the message is initially displayed.

Autosteer requires that you pay attention to your surroundings and remain prepared to take control at any time. If Autosteer still does not detect your hands on the steering wheel, the request escalates by sounding chimes that increase in frequency.

If you repeatedly ignore Autosteer's prompts for having your hands on the steering wheel, Autosteer disables for the rest of the drive and displays the following message. If you don't resume manual steering, Autosteer



sounds a continuous chime, turns on the warning flashers, and slows the vehicle to a complete stop.

 **Autosteer unavailable for the rest of this drive**
Hold steering wheel to drive manually

For the rest of the drive, you must steer manually. Autosteer is available again on your next drive (after you stop and shift Model 3 into Park).

Autosteer is Aborting

In situations where Autosteer is unable to assist in steering Model 3, Autosteer aborts, sounds a warning chime, and displays the following message on the touchscreen:

 **Autosteer is Aborting**

Canceling Autosteer

Autosteer cancels when:

- You apply rotational force to the steering wheel (even a slight amount).
- You press the brake pedal.
- The maximum speed that Autosteer supports-150 km/h-is exceeded.
- You move the gear lever upwards.
- A door is opened.
- An Automatic Emergency Braking event occurs (see [Collision Avoidance Assist on page 139](#)).

When Autosteer cancels, it sounds chimes and the Autosteer icon either turns gray to indicate that Autosteer is no longer active, or disappears to indicate that it is not currently available.

NOTE: If Autosteer cancels because you applied rotational force to the steering wheel, Traffic-Aware Cruise Control remains active. Disengage Traffic-Aware Cruise Control as you normally would, by moving the gear lever upward or pressing the brake pedal.

NOTE: If you move the gear lever upward and hold it up for more than one second, Model 3 shifts into Neutral after canceling Autosteer.

To disable Autosteer so it is no longer available, touch **Controls > Autopilot > Autosteer (Beta)**.

Auto Lane Change

When Autosteer is active on a vehicle equipped with Auto Lane Change, you can use the turn signals to move Model 3 into an adjacent lane.

 **WARNING:** It is the driver's responsibility to determine whether a lane change is safe and appropriate. Therefore, before initiating a lane change, always check blind spots, lane markings, and the surrounding roadway to confirm it is safe and appropriate to move into the target lane.

 **WARNING:** Never depend on Auto Lane Change to determine an appropriate driving path. Drive attentively by watching the road and traffic ahead of you, checking the surrounding area, and monitoring the touchscreen for warnings. Always be prepared to take immediate action.

 **WARNING:** Do not use Auto Lane Change on city streets or on roads where traffic conditions are constantly changing and where bicycles and pedestrians are present.

 **WARNING:** The performance of Auto Lane Change depends on the ability of the camera(s) to recognize lane markings.

 **WARNING:** Do not use Auto Lane Change on winding roads with sharp curves, on icy or slippery roads, or when weather conditions (such as heavy rain, snow, fog, etc.) may be obstructing the view from the camera(s) or sensors.

 **WARNING:** Failure to follow all warnings and instructions can result in property damage, serious injury or death.

Operating Auto Lane Change

Auto Lane Change is available whenever Autosteer is active. To change lanes using Auto Lane Change:



1. Perform visual checks to make sure it is safe and appropriate to move into the target lane
2. Fully engage the appropriate turn signal and initiate the lane change by having your hands on the steering wheel.
3. Disengage the turn signal after you are in the target lane.

NOTE: Auto Lane Change cancels if the lane change cannot be completed in five seconds.

Auto Lane Change assists in moving Model 3 into the adjacent lane in the direction indicated by the turn signal, provided the following conditions are met:

- Auto Lane Change detected your hands on the steering wheel.
- The turn signal is fully engaged.
- The ultrasonic sensors and Autopilot cameras do not detect a vehicle or obstacle up to the center of the target lane.
- The lane markings indicate that a lane change is permitted.
- The view of the camera(s) is not obstructed.
- Your vehicle does not detect another vehicle in its blind spot.
- Midway through the lane change, Auto Lane Change can detect the outside lane marking of the target lane.
- Driving speed is at least 45 km/h.

As the lane change is in progress, Overtake Acceleration is activated, allowing Model 3 to accelerate closer to a vehicle in front (see [Overtake Acceleration on page 115](#)). Midway through the lane change, Auto Lane Change must detect the target lane's outside lane marking. If this lane marking cannot be detected, the lane change is aborted and Model 3 returns to its original driving lane.

NOTE: Auto Lane Change assists in moving Model 3 one lane at a time. Moving into an additional lane requires you to engage the turn signal a second time after the first lane change is complete.

When using Auto Lane Change, it is important to monitor its performance by watching the driving path in front of you and the surrounding area. Stay prepared to take over steering at any time. As you are crossing over into the adjacent lane, the touchscreen displays the lane marking as a dashed blue line. Once in your new lane, lane markings are displayed as solid blue lines again.

In situations where Auto Lane Change is unable to operate at optimal performance, or cannot operate due to inadequate data, the touchscreen displays a series of warnings. Therefore, when using Auto Lane Change, always pay attention to the touchscreen and be prepared to manually steer Model 3.

Limitations

Autosteer and its associated functions are particularly unlikely to operate as intended when:

- Autosteer is unable to accurately determine lane markings. For example, lane markings are excessively worn, have visible previous markings, have been adjusted due to road construction, are changing quickly (lanes branching off, crossing over, or merging), objects or landscape features are casting strong shadows on the lane markings, or the road surface contains pavement seams or other high-contrast lines.
- Visibility is poor (heavy rain, snow, fog, etc.) or weather conditions are interfering with sensor operation.
- A camera(s) or sensor(s) is obstructed, covered, or damaged.
- Driving on hills.
- Approaching a toll booth.
- Driving on a road that has sharp curves or is excessively rough.
- Bright light (such as direct sunlight) is interfering with the view of the camera(s).
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.
- A vehicle is detected in your blind spot when you engage the turn signal.



- Model 3 is being driven very close to a vehicle in front of it, which is blocking the view of the camera(s).



WARNING: Many unforeseen circumstances can impair the operation of Autosteer. Always keep this in mind and remember that as a result, Autosteer may not assist in steering Model 3 appropriately. Always drive attentively and be prepared to take immediate action.



NOTE: Navigate on Autopilot is a BETA feature and is not available in all market regions.

When using Autosteer on a controlled-access road (such as a highway or freeway), Navigate on Autopilot automatically exits at off-ramps and interchanges based on your navigation route. Along the highway portion of a navigation route, Navigate on Autopilot also changes lanes to prepare for exits and to minimize the driving time to your destination.



WARNING: Navigate on Autopilot does not make driving autonomous. You must pay attention to the road, keep your hands on the steering wheel at all times, and remain aware of your navigation route.



WARNING: As is the case with normal driving, be extra careful around blind corners, highway interchanges, and exits because obstacles can appear quickly and at any time.



WARNING: Navigate on Autopilot may not recognize or detect oncoming vehicles, stationary objects, and special-use lanes such as those used exclusively for bikes, carpools, emergency vehicles, etc. Remain alert at all times and be prepared to take immediate action. Failure to do so can cause damage, injury or death.

Enabling and Customizing Navigate on Autopilot

To enable Navigate on Autopilot, touch **Controls > Autopilot > Navigate on Autopilot (Beta)**. Then, to customize how you want Navigate on Autopilot to operate, touch **CUSTOMIZE NAVIGATE ON AUTOPILOT**:

- **Enable At Start Of Every Trip:** Choose whether or not you want to automatically enable Navigate on Autopilot for every navigation route. When enabled, the Navigate on Autopilot button on the turn-by-turn direction list is already enabled at the start of every trip.
- **Speed Based Lane Changes:** Navigate on Autopilot is designed to perform both route-based and speed-based lane changes. Route-based lane changes are designed to keep you on your navigation route (for example, moving you into an

adjacent lane to prepare for an upcoming off-ramp) whereas speed-based lane changes are designed to maintain a driving speed (not to exceed your cruising speed) that allows you to minimize the time it takes to reach your destination (for example, moving into an adjacent lane to pass a vehicle in front of you). Speed-based lanes changes are optional. You can use this setting to disable speed-based lane changes or to specify how aggressively you want Navigate on Autopilot to change lanes to achieve the set cruising speed. The **MILD** setting is more conservative about lane changes and may result in a slightly longer driving time whereas **MAD MAX** is designed to allow you to reach your destination in the shortest driving time possible, but will only change lanes when safe to do so.

NOTE: In addition to route-based and speed-based lane changes, Navigate on Autopilot also requests a lane change to the right as a reminder to stay out of the left-most lane when you are not passing other vehicles.

NOTE: The touchscreen displays route-based lane changes at the top of the map's turn-by-turn direction list to notify you that an upcoming lane change is needed to stay on the navigation route.

Operating Navigate on Autopilot

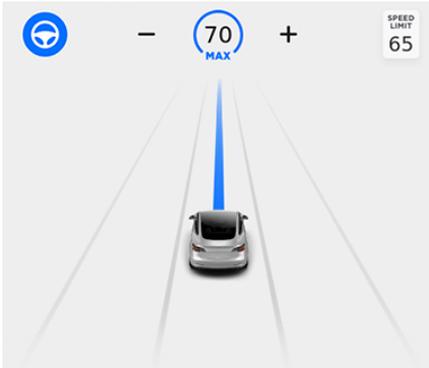
Once enabled, the Navigate on Autopilot button appears on the map's turn-by-turn direction list whenever a navigation route is active and the route includes at least one controlled-access road. Touch this button to allow Navigate on Autopilot to assist you on your journey. When enabled, the Navigate on Autopilot button is blue and the turn-by-turn direction displays the Autosteer icon next to maneuvers (such as freeway exits) that Navigate on Autopilot will handle.

Navigate on Autopilot activates and deactivates as appropriate, based on the type of road you are driving on. For example, if Autosteer is active and the Navigate on Autopilot setting is turned on, Navigate on Autopilot automatically becomes active when you reach a supported controlled-access portion of your navigation route.



Navigate on Autopilot

Whenever Navigate on Autopilot is active, the touchscreen displays the driving lane as a single blue line in front of Model 3:



When Navigate on Autopilot is active and you approach an off-ramp or freeway interchange along your navigation route, the appropriate turn signal engages and Autosteer maneuvers Model 3 onto the off-ramp or interchange.



WARNING: Never depend on Navigate on Autopilot to determine an appropriate lane at an off-ramp. Stay alert and perform visual checks to ensure that the driving lane is safe and appropriate.

When you leave a controlled-access road (for example, you exit a freeway or you enter a section of the navigation route that is no longer supported), Navigate on Autopilot reverts back to Autosteer—a unique triple-tone chime sounds and the touchscreen displays the driving lane lines in blue (instead of the single blue in front of Model 3). When you exit onto an off-ramp, the touchscreen briefly displays a countdown message warning you of the distance remaining before Navigate on Autopilot reverts back to Autosteer.

NOTE: The way Navigate on Autopilot determines navigation routes and maneuvers at freeway interchanges can be impacted by whether or not the navigation system is set up to use High Occupancy Vehicle (HOV) lanes. Therefore, ensure the **Use HOV Lanes** setting is appropriate for your circumstances (see [Maps and Navigation on page 160](#)). If the setting is off, Navigate on Autopilot never uses an HOV lane, regardless of time of day. If the setting is on, Navigate on Autopilot will always include the use of the HOV lane, whenever it exists.



WARNING: Even when Navigate on Autopilot deactivates at off-ramps, Autosteer remains active. Always be prepared to take appropriate actions such as stopping at red lights and stop signs, and yielding to other road users.



WARNING: Navigate on Autopilot may not always attempt to exit at an off-ramp, even when the exit is determined by the navigation route. Always remain alert and be prepared to manually steer onto the off-ramp, or make a required lane change.

You can cancel Navigate on Autopilot at any time by touching the **Navigate on Autopilot** button on the map's turn-by-turn direction list (your vehicle reverts back to Autosteer), or by canceling Autosteer entirely (see [Canceling Autosteer on page 120](#)).

Lane Changes

Navigate on Autopilot changes lanes to either prepare Model 3 for an upcoming off-ramp, to increase your driving speed (not to exceed your set cruising speed), or to move Model 3 out of a left-most lane when you are not passing other vehicles. A message displays at the top of the map's turn-by-turn direction list to notify you when an upcoming lane change is required to stay on your navigation route. The line on the touchscreen shows the upcoming driving path:



When the touchscreen displays a message asking you to confirm the lane change, engage the appropriate turn signal. If you do not confirm the lane change within three seconds, a chime sounds to remind you that Navigate on Autopilot requires your confirmation to change lanes.

NOTE: If you ignore a route-based lane change suggestion (for example, you are driving in the left lane while approaching an off-ramp on the right side of the highway), Navigate on Autopilot will be unable to maneuver onto the off-ramp and as a result, the navigation system will re-route you to your destination.



WARNING: Navigate on Autopilot may not always attempt to exit at an off-ramp or change lanes, even when an exit or lane change is determined by the navigation route. Always remain alert and be prepared to manually steer onto an off-ramp, or make a lane change to prepare for, or to exit at, an off-ramp or interchange.

Be Ready to Assist

When attempting to change lanes or maneuver Model 3, or when approaching construction zones, Navigate on Autopilot may be unable to determine the appropriate driving lane (for example, complex clover leaves and multi-lane off-ramps) and the touchscreen displays an alert indicating that Navigate on Autopilot is trying to maneuver and may require assistance. When you see the message, be prepared to take immediate action to ensure that it is safe and appropriate to complete the lane change or maneuver.



Autopark (if equipped) uses data from the ultrasonic sensors and GPS to simplify parking on public roads by maneuvering Model 3 into parallel and perpendicular parking spaces. See [To Use Autopark on page 126](#).



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.

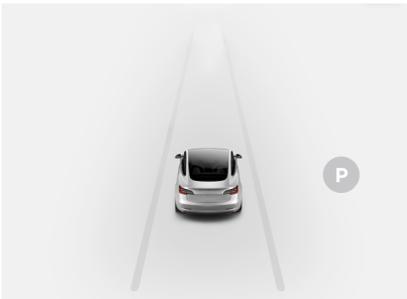


WARNING: Autopark's performance depends on the ability of the ultrasonic sensors to determine the vehicle's proximity to curbs, objects, and other vehicles.

To Use Autopark

When driving, follow these steps to allow Autopark to maneuver Model 3 into a parking space:

1. When driving slowly on a public road, monitor the touchscreen to determine when Autopark has detected a parking space. When Autopark detects a potential parking space, the touchscreen displays a parking icon. Autopark detects parallel parking locations when driving below 24 km/h and perpendicular parking locations when driving below 16 km/h.



NOTE: The parking icon appears only if the vehicle's position and/or the circumstances of the surrounding area are such that Autopark can determine an appropriate driving path. If Autopark cannot determine an appropriate path (for example, when driving on a narrow street where moving into the parking space causes the front of the vehicle to extend into the adjacent lane), you can either reposition the vehicle, find a different parking space, or park manually.

2. Check to determine if the detected parking space is appropriate and safe. If so, pull forward and stop approximately a car length ahead of the parking space (as you normally would when parallel parking or when backing into a perpendicular parking space).

3. Release the steering wheel, shift Model 3 into Reverse, then touch **Start Autopark** on the touchscreen.

4. When parking is complete, Autopark displays the "Complete" message.

In situations where Autopark cannot operate due to inadequate sensor data, the touchscreen displays a message indicating that you must manually park Model 3.

NOTE: If you press the brake when Autopark is actively parking Model 3, the parking process pauses until you touch **Resume** on the touchscreen.

NOTE: Autopark detects potential perpendicular parking spaces that are at least 2.9 meters wide with a vehicle parked on each side. Autopark detects parallel parking spaces that are at least 6 meters, but less than 9 meters long. Autopark does not operate on angled parking spaces.



WARNING: Never depend on Autopark to find a parking space that is legal, suitable, and safe. Autopark may not always detect objects in the parking space. Always perform visual checks to confirm that a parking space is appropriate and safe.



WARNING: When Autopark is actively steering Model 3, the steering wheel moves in accordance with Autopark's adjustments. Do not interfere with the movement of the steering wheel. Doing so cancels Autopark.



WARNING: During the parking sequence, continually check your surroundings. Be prepared to apply the brakes to avoid vehicles, pedestrians, or objects.



WARNING: When Autopark is active, monitor the touchscreen to ensure that you are aware of the instructions that Autopark is providing.

To Pause Parking

To pause Autopark, press the brake pedal once. Model 3 stops and remains stopped until you touch **Resume** on the touchscreen.

To Cancel Parking

Autopark cancels the parking sequence when you manually move the steering wheel, change gears, or touch **Cancel** on the touchscreen. Autopark also cancels parking when:

- The parking sequence exceeds seven moves.
- Model 3 detects that the driver is exiting the vehicle.
- A door is opened.
- You press the accelerator pedal.
- You press the brake pedal while Autopark is paused.
- An Automatic Emergency Braking event occurs (see [Collision Avoidance Assist on page 139](#)).

Limitations

Autopark is particularly unlikely to operate as intended in these situations:

- The road is sloped. Autopark is designed to operate on flat roads only.
- Visibility is poor (due to heavy rain, snow, fog, etc.).
- The curb is constructed of material other than stone, or the curb cannot be detected.

- The target parking space is directly adjacent to a wall or pillar (for example, the last parking space of a row in an underground parking structure).

- One or more of the ultrasonic sensors is damaged, dirty, or obstructed (such as by mud, ice, or snow).

- Weather conditions (heavy rain, snow, fog, or extremely hot or cold temperatures) are interfering with sensor operation.

- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.



WARNING: Many unforeseen circumstances can impair Autopark's ability to park Model 3. Keep this in mind and remember that as a result, Autopark may not steer Model 3 appropriately. Pay attention when parking Model 3 and stay prepared to immediately take control.



Summon (if equipped) allows you to automatically park and retrieve Model 3 while you are standing outside the vehicle. Summon uses data from the ultrasonic sensors to move Model 3 forward and reverse up to 12 meters in, or out of, a parking space.

To move Model 3 a longer distance while steering around objects, you can use Smart Summon (if equipped) and your mobile phone. Smart Summon allows your vehicle to find you (or you can send your vehicle to a chosen location). See [Smart Summon on page 132](#).



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Summon is designed and intended for use only on parking lots and driveways on private property where the surrounding area is familiar and predictable.



WARNING: Summon is a BETA feature. You must continually monitor the vehicle and its surroundings and stay prepared to take immediate action at any time. It is the driver's responsibility to use Summon safely, responsibly, and as intended.



WARNING: Summon's performance depends on the ability of the ultrasonic sensors to determine the vehicle's proximity to objects, people, animals, and other vehicles.

Before Using Summon

Before operating Summon, use the touchscreen to enable it and customize how you want it to work. Touch **Controls** > **Autopilot** > **Summon**, then touch **Customize** and adjust the following settings to suit your preferences:

- **Bumper Clearance:** Set the distance that you want Summon to stop from a detected object (for example, you may want Summon to stop within just a few inches of a garage wall). Note that this distance applies only to objects that Summon

detects directly in front of Model 3 when moving forward, or directly behind Model 3 when reversing.

- **Summon Distance:** Set a maximum distance that Model 3 can travel when entering or exiting a parking space.

- **Side Clearance:** Choose an option to specify how much side clearance you want to allow. **Tight** allows Model 3 to enter and exit very narrow parking spaces.



WARNING: Parking in a narrow space limits the ability of the sensors to accurately detect the location of obstacles, increasing the risk of damage to Model 3 and/or surrounding objects.

- **Require Continuous Press:** By default, Summon requires that you press and hold a button on the mobile app or the key fob accessory to move Model 3 during the parking process. When **Require Continuous Press** is set to **NO**, you can press and release the button—you don't need to hold it down to keep the vehicle moving. Also, **Require Continuous Press** must be set to **NO** if you want to operate Summon using the key fob accessory instead of the mobile app (see [Operating Summon with the Key on page 130](#)), or if you want to start a parking sequence from inside the vehicle (see [Starting Summon Before Exiting the Vehicle on page 130](#)).

- **Use Auto HomeLink** (if equipped): Set to **ON** if you want to activate HomeLink to open/close a programmed HomeLink device (such as a gate or a garage door) during the parking process when using Summon. If enabled, the device automatically opens and closes when Model 3 enters or exits during a Summon session. In a Smart Summon session (if equipped), the device automatically opens when, at the beginning of a session, Smart Summon detects that Model 3 is parked in a garage.



WARNING: Always ensure that Model 3 is fully in or out of a garage before HomeLink lowers the garage door. Summon and Smart Summon (if equipped) cannot detect where an overhead door will lower.



NOTE: When enabled, the HomeLink device automatically opens and closes when using Summon, and automatically opens as needed when using Smart Summon (if equipped). To automate HomeLink in other situations (such as normal driving), you must adjust the HomeLink device's main settings by touching the HomeLink icon at the top of the touchscreen (see [HomeLink Universal Transceiver on page 180](#)).

NOTE: The above settings, with the exception of HomeLink, apply only to Summon—not Smart Summon, if equipped (see [Before Using Smart Summon on page 132](#)). You cannot customize Smart Summon's bumper clearance, distance, and side clearance. And when using Smart Summon, you must always hold down the button on the mobile app to keep Model 3 moving. Also, Smart Summon operates with the mobile app only—not the key fob accessory.

NOTE: All settings are retained until you manually change them.

Using Summon to Park and Retrieve your Vehicle

Follow these steps to use Summon to park your Model 3:

- Align Model 3 within 12 meters of the parking space so Model 3 can follow a straight path into or out of the space in either Drive or Reverse.
- From outside the vehicle, initiate the parking maneuver by touching **Summon** on the mobile app, then holding down the **FORWARD** or **REVERSE** button.

NOTE: If the **Require Continuous Press** setting is **NO**, you do not need to hold down the button, just press and release.

NOTE: You can also initiate the parking maneuver from inside the vehicle (see [Starting Summon Before Exiting the Vehicle on page 130](#)).

Summon shifts Model 3 into Drive or Reverse (based on the direction you specified) and drives into or out of the parking space. When parking is complete, or if an obstacle is detected, Summon shifts Model 3 into Park. Summon shifts Model 3 into Park when:

- Model 3 detects an obstacle in its driving path (within the **Bumper Clearance** setting that you specified).
- Summon has moved Model 3 the maximum distance of 12 meters.
- You release the **FORWARD** or **REVERSE** button (when **Require Continuous Press** is turned on).
- You press any button to manually stop Summon.

If you used Summon to park Model 3, you can then use Summon to return Model 3 back to its original position (provided the vehicle has remained in Park), or to the maximum **Summon Distance** that you have specified (whichever comes first). Simply specify the opposite direction on the mobile app and Summon moves the vehicle along the original path, provided no obstructions have been introduced. If the ultrasonic sensors detect an obstacle, Summon attempts to avoid the obstacle while staying very close to its original path (Summon does not steer around obstacles).

NOTE: To move Summon multiple times in the same direction (not to exceed the maximum of 12 meters, cancel Summon and then restart the parking process using the same direction.

NOTE: Although Summon can move Model 3 a short distance laterally to avoid an obstacle, it does not attempt to steer around an obstacle to return the vehicle to its original driving path. Only Smart Summon (if equipped) can steer the vehicle around objects.

NOTE: If you release the direction button on the mobile app, Summon stops moving Model 3.

NOTE: Summon requires that Model 3 can detect a valid key nearby.

NOTE: Summon requires that Model 3 can detect an authenticated phone nearby.



WARNING: Model 3 cannot detect obstacles that are located lower than the bumper, are very narrow, or are hanging from a ceiling (for example, bicycles). In addition, many unforeseen circumstances can impair Summon's ability to move in or out of a parking space and, as a result, Summon may not move Model 3 appropriately. Therefore, you must continually monitor the vehicle's movement and its surroundings and remain prepared to stop Model 3 at any time.

Operating Summon with the Key

NOTE: Summon may not operate if the key fob accessory's battery is low.

Follow these steps to park Model 3 from outside the vehicle using the key fob accessory:

1. On the touchscreen, ensure that **Require Continuous Press** is disabled (touch **Controls > Autopilot > Summon > Require Continuous Press > NO**).
2. With Model 3 in Park, stand within 3 meters and press and hold the top center button on the key fob accessory (Lock/Unlock All button) until the hazard lights blink continuously.

NOTE: The hazard lights flash once as Model 3 locks, then within five seconds, Model 3 powers on and the hazard lights flash continuously. Do not proceed to the next step until the hazard lights are flashing. If, after five seconds, the hazard lights are not flashing, release the button on the key fob accessory, move closer to Model 3, and try again. If Summon receives no further input within ten seconds, Summon cancels.

3. Press the Front Trunk button on the key fob accessory to move Model 3 forward into the parking space, or press the Rear Trunk button to reverse Model 3 into the parking space.

Starting Summon Before Exiting the Vehicle

To start a Summon parking sequence before exiting Model 3:

1. On the touchscreen, ensure that **Require Continuous Press** is disabled (touch **Controls > Autopilot > Summon > Require Continuous Press > NO**).
2. Close all doors and trunks.
3. With Model 3 powered on and the Park gear engaged, double press the Park button on the gear stalk. The touchscreen displays a popup window.
4. On the touchscreen, choose the direction of travel.
5. Exit Model 3 and close the driver's door.

Summon now moves Model 3 according to the direction you specified on the touchscreen.

NOTE: To cancel the parking maneuver before exiting, touch **Cancel** on the popup window.

NOTE: If you do not choose a direction of travel on the touchscreen, Summon does not start a parking maneuver when you exit.

Stopping or Canceling Summon

You can stop Model 3 at any time while Summon is active by using the mobile app or by pressing any button on the key fob accessory. Summon also cancels when:

- A door handle is engaged or a door is opened.
- You interact with the steering wheel, brake pedal, accelerator pedal, or gear stalk.
- Model 3 detects an obstacle.
- Summon has moved Model 3 the maximum distance of approximately 12 meters.
- Your phone enters sleep mode or loses connectivity to Model 3.

Limitations

Summon is unlikely to operate as intended in the following types of situations:

- The driving path is sloped. Summon is designed to operate on flat roads only (up to 10% grade).



- A raised concrete edge is detected. Summon will not move the vehicle over an edge that is higher than approximately 2.5 cm.
- One or more of the ultrasonic sensors is damaged, dirty, or obstructed (such as by mud, ice, or snow, or by a vehicle bra, excessive paint, or adhesive products such as wraps, stickers, rubber coating, etc.).
- Weather conditions (heavy rain, snow, fog, or extremely hot or cold temperatures) are interfering with sensor operation.
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.

NOTE: Summon is disabled if Model 3 is in Valet mode (see [Valet Mode on page 58](#)).



WARNING: The list above does not represent an exhaustive list of situations that may interfere with proper operation of Summon. It is the driver's responsibility to remain in control of Model 3 at all times. Pay close attention whenever Summon is actively moving Model 3 and stay prepared to take immediate action. Failure to do so can result in serious property damage, injury or death.



Smart Summon (if equipped) is designed to allow you to move Model 3 to your location (using your phone's GPS as a target destination) or to a location of your choice, maneuvering around and stopping for objects as necessary. Smart Summon works with the Tesla mobile app when your phone is located within approximately 6 meters of Model 3. Using ultrasonic sensors, cameras, and GPS data, Smart Summon maneuvers Model 3 out of parking spaces and around corners. This is useful for moving Model 3 out of a tight parking spot, through puddles, or helping you retrieve your car while carrying packages. You must maintain a clear line of sight between you and Model 3 and closely monitor the vehicle and its surroundings at all times.



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Smart Summon is designed and intended for use only on parking lots and driveways located on private property where the surrounding area is familiar and predictable. Do not use Smart Summon on public roads.



WARNING: Smart Summon must only be used on paved surfaces.



WARNING: Smart Summon is a BETA feature. You must continually monitor the vehicle and its surroundings and stay prepared to take immediate action at any time. It is the driver's responsibility to use Smart Summon safely, responsibly, and as intended.



WARNING: Smart Summon may not stop for all objects (especially very low objects such as some curbs, or very high objects such as a shelf) and may not react to all traffic. Smart Summon does not recognize the direction of traffic, does not navigate around empty parking spaces, and may not anticipate crossing traffic.



WARNING: Smart Summon's performance depends on the ultrasonic sensors, the visibility of the cameras, and the availability of an adequate cellular signal and GPS data.



WARNING: When using Smart Summon, you must maintain a clear line of sight between you and Model 3 and stay prepared to stop the vehicle at any time by releasing the button on the mobile app.

Before Using Smart Summon

- Download the latest version of the Tesla mobile app to your phone, and ensure your phone has cellular service and GPS enabled.
- Your phone must be connected to Model 3 and located within approximately 6 meters.
- The vehicle's Autopilot cameras must be fully calibrated (see [Drive to Calibrate Cameras on page 109](#)).
- You must have a clear line of sight to Model 3.
- Model 3 must be in Park, not charging, and all doors and trunks must be closed.

Using Smart Summon

1. Open the Tesla mobile app, and press **SUMMON**.
2. Press the **Smart Summon** icon located in the center of the image of your Model 3. It may take several seconds for Smart Summon to start up.

NOTE: You can use Standby Mode to eliminate the delay that occurs when Smart Summon is starting up (see [Standby Mode on page 134](#)).

The mobile app displays a map with a blue circle, which represents the maximum proximity of 6 meters that you must maintain between your phone and Model 3. The blue dot on the map represents your location, and the red arrow represents the location of Model 3.

3. Position yourself anywhere within the blue circle where you have a clear line of sight to Model 3.
4. You can now operate Smart Summon using either of these modes:



- **COME TO ME** mode: Press and hold the **COME TO ME** button. Model 3 moves to your GPS location. As you move, Model 3 follows you. When Model 3 reaches you, it stops and shifts into park.
- **GO TO TARGET** mode: Touch the crosshair icon then drag the map to position the pin on a chosen destination. Press and hold the **GO TO TARGET** button. Model 3 moves to the destination. When reaching the location, Model 3 stops and shifts into Park and the mobile app displays a message indicating that Summon has completed.

NOTE: To subsequently change the location, lift your finger, reposition the map, then press and hold **GO TO TARGET** again.

To stop Model 3 at any time, simply release the **COME TO ME** or **GO TO TARGET** button.



The map's crosshair icon toggles between **GO TO TARGET** and **COME TO ME** modes. When **COME TO ME** mode is selected, the icon is blue.

NOTE: The map also has an icon that allows you to display/hide satellite imagery.

Immediately after initiating Smart Summon in either mode, hazard lights briefly flash, mirrors fold, and Model 3 shifts into the appropriate driving gear (Drive or Reverse). Model 3 then slowly moves to within 1 meter of you (**COME TO ME**) or your chosen destination (**GO TO TARGET**), navigating obstacles as needed. As Model 3 moves, the corresponding red arrow on the map also moves to show the vehicle's location. As you move, the corresponding blue dot also moves to show your location.

In either mode, Model 3 stops moving and shifts into park when:

- You release the button on the mobile app.

- The maximum proximity of 6 meters between your phone and Model 3 is exceeded (if moving Model 3 to a destination away from you, you may need to follow the car to maintain this distance).
- The driving path is blocked.
- Model 3 has moved the maximum distance of 20 meters since the start of the Smart Summon session.

NOTE: If Smart Summon moves Model 3 forward three meters and then backwards two meters, this is considered five meters of travel.

NOTE: There is no need to look at the mobile app—just hold down the button while keeping your eye on Model 3 and its driving path at all times, remaining ready to release the button to stop the vehicle if needed.

If equipped and Auto HomeLink is enabled for Summon (touch **Controls** > **Autopilot** > **Summon** > **Use Auto HomeLink**, Smart Summon automatically opens a HomeLink device if you start the Smart Summon maneuver when Model 3 is located inside a garage. The mobile app informs you that the door has opened.



WARNING: When you release the button to stop Model 3, a slight delay occurs before the vehicle stops. Therefore, it is critical that you pay close attention to the vehicle's driving path at all times and proactively anticipate obstacles that the vehicle may be unable to detect.



WARNING: Use extreme caution when using Smart Summon in environments where movement of obstacles can be unpredictable. For example, where people, children or animals are present.



WARNING: Smart Summon may not stop for all objects (especially very low objects such as some curbs, or very high objects such as a shelf) and may not react to all oncoming or side traffic. Pay attention and be ready to stop Model 3 at all times by releasing the button on the mobile app.



Standby Mode

To keep Model 3 ready to Summon and reduce the time it takes to warm up, turn on Standby Mode. Touch **Controls > Autopilot > Customize Summon > Standby Mode**. When Standby Mode is turned on, you can conserve Battery energy by disabling Standby Mode at these locations:

- **Exclude Home** - Disables Standby Mode at the location you set as Home in your Favorites list.
- **Exclude Work** - Disables Standby Mode at the location you set as Work in your Favorites list.
- **Exclude Favorites** - Disables Standby Mode at any location in your Favorites list.

NOTE: To conserve energy, Smart Summon automatically exits Standby mode from midnight to 6:00 am. During these hours, you will experience a delay as Smart Summon starts up.

NOTE: Additional battery power may be consumed while Standby Mode is active.

NOTE: For details on how to designate a location as Home, Work, or Favorites, see [Recent, Favorite, Home and Work Destinations on page 165](#).

Stopping or Canceling Smart Summon

Smart Summon stops Model 3 whenever you release the button on the mobile app. To resume the Smart Summon session, simply press the **COME TO ME** or **GO TO TARGET** button again.



WARNING: Always anticipate when you need to stop Model 3. Depending on the quality of the connectivity between the phone and Model 3, there may be a slight delay between when you release the button and when the car stops.

Smart Summon cancels, and requires you to restart it, when:

- A door handle is engaged or a door is opened.

- You interact with the steering wheel, brake pedal, accelerator pedal, or gear stalk.
- Model 3 is blocked by an obstacle.
- Smart Summon has moved Model 3 the maximum distance of approximately 20 meters within a 6 meter radius of the phone's location. To move further than this distance, you must shift Model 3 into a driving gear (Drive or Reverse) and then re-initiate a Smart Summon session.
- Your phone enters sleep mode or loses connectivity to Model 3.

Limitations

Smart Summon is unlikely to operate as intended in the following types of situations:

- GPS data is unavailable due to poor cellular coverage.
- The driving path is sloped. Smart Summon is designed to operate on flat roads only (up to 10% grade).
- A raised concrete edge is detected. Depending on the height of the concrete edge, Smart Summon may not move Model 3 over it.
- One or more of the ultrasonic sensors or cameras is damaged, dirty, or obstructed (such as by mud, ice, or snow, or by a vehicle bra, excessive paint, or adhesive products such as wraps, stickers, rubber coating, etc.).
- Weather conditions (heavy rain, snow, fog, or extremely hot or cold temperatures) are interfering with sensor or camera operation.
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.

NOTE: Smart Summon is disabled if Model 3 is in Valet mode (see [Valet Mode on page 58](#)).



WARNING: The list above does not represent an exhaustive list of situations that may interfere with proper operation of Smart Summon. It is the driver's responsibility to remain in control of Model 3 at all times. Pay close attention whenever Smart Summon is actively moving Model 3 and stay prepared to take immediate action. Failure to do so can result in serious property damage, injury or death.



The Autopilot cameras and ultrasonic sensors monitor the markers on the lane you are driving in as well as the areas surrounding Model 3 for the presence of vehicles or other objects.

When an object is detected in your blind spot or close to the side of Model 3 (such as a vehicle, guard rail, etc.), colored lines radiate from the image of your vehicle on the touchscreen. The location of the lines correspond to the location of the detected object. The color of the lines (white, yellow, orange, or red) represent the object's proximity to your vehicle, with white being the farthest and red being very close, requiring your immediate attention. These colored lines only display when driving between approximately 12 km/h and 140 km/h. When Autosteer is active, these colored lines also display if driving slower than 12 km/h. However, the colored lines do not display if Model 3 is at a standstill (for example, in heavy traffic).



Lane Assist also warns you when a desired lane departure is not appropriate. When you engage the turn signal and a vehicle or object is detected in the adjacent lane you are planning to move into, the touchscreen displays a red lane line to indicate that a vehicle or object is detected. When the vehicle or object is no longer detected, the lane line returns to normal.



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Lane Assist features are for guidance purposes only and are not intended to replace your own direct visual checks. Before changing lanes, always visually check the lane you are moving into by using side mirrors and performing the appropriate shoulder checks.



WARNING: Never depend on Lane Assist to inform you of unintentionally driving outside of the driving lane, or informing you that a vehicle is in your blind spot or close to the side of your vehicle. Several external factors can reduce the performance of Lane Assist such as a lack of lane markings or curbs. This may result in false, or lack of, warnings (see [Limitations and Inaccuracies on page 137](#)). It is the driver's responsibility to stay alert, pay attention to the driving lane and always be aware of other road users. Failure to do so can result in serious injury or death.

Lane Assist also consists of the following features to assist you in staying safe in the driving lanes:

- Lane Departure Avoidance
- Emergency Lane Departure Avoidance
- Blind Spot Collision Warning Chime

Lane Departure Avoidance

Depending on your vehicle's configuration, this feature may not be available.

Lane Departure Avoidance provides steering interventions if Model 3 drifts into (or close to) an adjacent lane when driving between 64 and 145 km/h on major roadways with clearly visible lane markings. Touch **Controls** > **Autopilot** > **Lane Departure Avoidance** and choose:

- **OFF:** You are not warned of lane departures or potential collisions with a vehicle in an adjacent lane.
- **WARNING:** The steering wheel vibrates if a front wheel passes over a lane marking while the associated turn signal is off. A visual warning on the touchscreen is also displayed.



- **ASSIST:** In addition to the steering wheel vibration and a visual warning, Model 3 attempts to steer to a safer position in its driving lane if the vehicle detects drifting or a potential collision while the associated turn signal is off.

Your setting is retained until you manually change it.

When Lane Departure Avoidance detects drifting and applies a steering intervention, the designated lane line is highlighted in blue on the touchscreen.

NOTE: Lane Departure Avoidance is intended to help keep you safe, but it does not work in every situation and does not replace the need to remain attentive and in control.



WARNING: Keep your hands on the steering wheel at all times. If the vehicle senses your hands are not on the steering wheel, Model 3 sounds a chime and the hazard warning lights flash.



WARNING: Steering interventions are minimal and are not designed to move Model 3 out of its driving lane. Do not rely on steering interventions to avoid side collisions.

Emergency Lane Departure Avoidance

Depending on your vehicle's configuration, this feature may not be available.

For emergency situations, Emergency Lane Departure Avoidance attempts to prevent a potential collision with a vehicle in an adjacent lane by steering Model 3 back into your driving lane when traveling between 64 and 145 km/h). This operates if the cameras can detect the edge of the lane, such as a lane line or curb. When this steering intervention is applied, you will hear a chime and the touchscreen displays a warning while highlighting the lane line red until Model 3 returns to the driving lane. To turn on or off, touch **Controls** > **Autopilot** > **Emergency Lane Departure Avoidance**. This feature automatically turns on at the start of every drive.

Blind Spot Collision Warning Chime

If you want a chime to sound when a vehicle is in your blind spot and possible collision is detected, touch **Controls** > **Autopilot** > **Blind Spot Collision Warning Chime**.



WARNING: Blind Spot Collision Warning Chime cannot detect every collision. It is the driver's responsibility to remain alert and check their blind spots.

Adjacent Lane Speed

Due to market region and vehicle configuration, this feature may not be available on your vehicle.

When your vehicle is moving at a significantly faster speed than neighboring lanes, Model 3 automatically reduces your driving speed. This is especially helpful in heavy traffic situations or when vehicles are constantly merging into different lanes. When Model 3 detects that neighboring driving speeds are significantly slower, the neighboring lane is highlighted with arrows and detected vehicles are highlighted gray on the touchscreen, and your vehicle slows down as appropriate. This functionality can be temporarily overridden by pressing the accelerator pedal. Never rely on Autopilot to determine a safe driving speed; you are responsible for the vehicle and obeying traffic laws.

Limitations and Inaccuracies

Lane Assist cannot always clearly detect lane markings and you may experience unnecessary or invalid warnings in these situations:

- Visibility is poor and lane markings are not clearly visible (due to heavy rain, snow, fog, etc.). The exact detection zone of the ultrasonic sensors varies depending on environmental conditions.
- Bright light (such as from oncoming headlights or direct sunlight) is interfering with the view of the camera(s).



- A vehicle in front of Model 3 is blocking the view of the camera(s).
- The windshield is obstructing the view of the camera(s) (fogged over, dirty, covered by a sticker, etc.).
- Lane markings are excessively worn, have visible previous markings, have been adjusted due to road construction, or are changing quickly (for example, lanes branching off, crossing over, or merging).
- The road is narrow or winding.
- Objects or landscape features are casting strong shadows on lane markers.

Lane Assist may not provide warnings, or may apply inappropriate warnings, in these situations:

- One or more of the ultrasonic sensors is damaged, dirty, or obstructed (such as by mud, ice, or snow).
- Weather conditions (heavy rain, snow, fog, or extremely hot or cold temperatures) are interfering with sensor operation.
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.
- An object that is mounted to Model 3 is interfering with and/or obstructing a sensor (such as a bike rack or a bumper sticker).

In addition, Lane Assist may not steer Model 3 away from an adjacent vehicle, or may apply unnecessary or inappropriate steering, in these situations:

- You are driving Model 3 on sharp corners or on a curve at a relatively high speed.
- Bright light (such as from oncoming headlights or direct sunlight) is interfering with the view of the camera(s).
- You are drifting into another lane but an object (such as a vehicle) is not present.
- A vehicle in another lane cuts in front of you or drifts into your driving lane.
- Model 3 is traveling less than 48 km/h or over 145 km/h.
- One or more of the ultrasonic sensors is damaged, dirty, or obstructed (such as by mud, ice, or snow).

- Weather conditions (heavy rain, snow, fog, or extremely hot or cold temperatures) are interfering with sensor operation.
- The sensors are affected by other electrical equipment or devices that generate ultrasonic waves.
- An object mounted to Model 3 (such as a bike rack or a bumper sticker) is interfering with or obstructing a sensor.
- Visibility is poor and lane markings are not clearly visible (due to heavy rain, snow, fog, etc.).
- Lane markings are excessively worn, have visible previous markings, have been adjusted due to road construction or are changing quickly (for example, lanes branching off, crossing over, or merging).



WARNING: The lists above do not represent every possible situation that may interfere with Lane Assist warnings. Lane Assist may not operate as intended for many other reasons. To avoid a collision, stay alert and always pay attention to the roadway when driving so you can anticipate the need to take corrective action as early as possible.



The following collision avoidance features are designed to increase the safety of you and your passengers:

- **Forward Collision Warning** - provides visual and audible warnings in situations when Model 3 detects that there is a high risk of a frontal collision (see [Forward Collision Warning on page 139](#)).
- **Automatic Emergency Braking** - automatically applies braking to reduce the impact of a frontal collision (see [Automatic Emergency Braking on page 140](#)).
- **Obstacle-Aware Acceleration** - reduces acceleration if Model 3 detects an object in its immediate driving path (see [Obstacle-Aware Acceleration on page 141](#)).



CAUTION: Ensure all cameras and sensors are clean. Unclean cameras and sensors, as well as environmental conditions such as rain and faded lane markings, can affect Autopilot performance.



WARNING: Forward Collision Warning is for guidance purposes only and is not a substitute for attentive driving and sound judgment. Keep your eyes on the road when driving and never depend on Forward Collision Warning to warn you of a potential collision. Several factors can reduce or impair performance, causing either unnecessary, invalid, inaccurate, or missed warnings. Depending on Forward Collision Warning to warn you of a potential collision can result in serious injury or death.



WARNING: Automatic Emergency Braking is not designed to prevent all collisions. In certain situations, it can minimize the impact of a frontal collision by attempting to reduce your driving speed. Depending on Automatic Emergency Braking to avoid a collision can result in serious injury or death.



WARNING: Obstacle-Aware Acceleration is not designed to prevent a collision. In certain situations, it can minimize the impact of a collision. Depending on Obstacle-Aware Acceleration to avoid a collision can result in serious injury or death.

Forward Collision Warning

The forward looking camera(s) and the radar sensor monitor the area in front of Model 3 for the presence of an object such as a vehicle, motorcycle, bicycle, or pedestrian. If a collision is considered likely unless you take immediate corrective action, Forward Collision Warning is designed to sound a chime and highlight the vehicle in front of you in red on the touchscreen. If this happens, **TAKE IMMEDIATE CORRECTIVE ACTION!**



Warnings cancel automatically when the risk of a collision has been reduced (for example, you have decelerated or stopped Model 3, or the object in front of your vehicle has moved out of your driving path).

If immediate action is not taken when Model 3 issues a Forward Collision Warning, Automatic Emergency Braking (if enabled) may automatically apply the brakes if a collision is considered imminent (see [Automatic Emergency Braking on page 140](#)).

By default, Forward Collision Warning is turned on. To turn it off or adjust its sensitivity, touch **Controls > Autopilot > Forward Collision Warning**. Instead of the default warning level of **Medium**, you can turn the warning **Off**, or you can choose to be warned **Late** or **Early**.

NOTE: Your chosen setting for Forward Collision Warning is retained until you manually change it.



WARNING: The camera(s) and sensors associated with Forward Collision Warning are designed to monitor an approximate area of up to 160 meters in your driving path. The area being monitored by Forward Collision Warning can be adversely affected by road and weather conditions. Use appropriate caution when driving.



WARNING: Forward Collision Warning is designed only to provide visual and audible alerts. It does not attempt to apply the brakes or decelerate Model 3. When seeing and/or hearing a warning, it is the driver's responsibility to take corrective action immediately.



WARNING: Forward Collision Warning may provide a warning in situations where the likelihood of collision may not exist. Stay alert and always pay attention to the area in front of Model 3 so you can anticipate whether any action is required.



WARNING: Forward Collision Warning operates only when driving between approximately 10 km/h and 150 km/h.



WARNING: Forward Collision Warning does not provide a warning when the driver is already applying the brake.

If driving (56 km/h) or faster, the brakes are released after Automatic Emergency Braking has reduced your driving speed by (50 km/h). For example, if Automatic Emergency Braking applies braking when driving 90 km/h, it releases the brakes when your speed has been reduced to 40 km/h.

Automatic Emergency Braking operates only when driving between approximately 10 km/h and 150 km/h.

Automatic Emergency Braking does not apply the brakes, or stops applying the brakes, when:

- You turn the steering wheel sharply.
- You press and release the brake pedal while Automatic Emergency Braking is applying the brakes.
- You accelerate hard while Automatic Emergency Braking is applying the brakes.
- The vehicle, motorcycle, bicycle, or pedestrian is no longer detected ahead.

Automatic Emergency Braking is always enabled when you start Model 3. To disable it for your current drive, touch **Controls** > **Autopilot** > **Automatic Emergency Braking**.



WARNING: It is strongly recommended that you do not disable Automatic Emergency Braking. If you disable it, Model 3 does not automatically apply the brakes in situations where a collision is considered likely.



WARNING: Automatic Emergency Braking is designed to reduce the severity of an impact. It is not designed to avoid a collision.



WARNING: Several factors can affect the performance of Automatic Emergency Braking, causing either no braking or inappropriate or untimely braking, such as when a vehicle is partially in the path of travel or there is road debris. It is the driver's responsibility to drive safely and remain in control of the vehicle at all times. Never depend on Automatic Emergency Braking to avoid or reduce the impact of a collision.

Automatic Emergency Braking

The forward looking camera(s) and the radar sensor are designed to determine the distance from a detected object traveling in front of Model 3. When a frontal collision is considered unavoidable, Automatic Emergency Braking is designed to apply the brakes to reduce the severity of the impact.

When Automatic Emergency Braking applies the brakes, the touchscreen displays a visual warning and sounds a chime. You may also notice abrupt downward movement of the brake pedal. The brake lights turn on to alert other road users that you are slowing down.



Emergency braking in progress



WARNING: Automatic Emergency Braking is designed to reduce the impact of frontal collisions only and does not function when Model 3 is in Reverse.



WARNING: Automatic Emergency Braking is not a substitute for maintaining a safe traveling distance between you and the vehicle in front of you.



WARNING: The brake pedal moves downward abruptly during automatic braking events. Always ensure that the brake pedal can move freely. Do not place material under or on top of the Tesla-supplied driver's floor mat (including an additional mat) and always ensure that the driver's floor mat is properly secured. Failure to do so can impede the ability of the brake pedal to move freely.

Obstacle-Aware Acceleration

Obstacle-Aware Acceleration is designed to reduce the impact of a collision by reducing motor torque if Model 3 detects an object in its driving path. For example, Model 3, while parked in front of a closed garage door with the Drive gear engaged, detects that you have pressed hard on the accelerator pedal. Although Model 3 still accelerates and hits the garage door, the reduced torque may result in less damage.

Obstacle-Aware Acceleration is designed to operate only when all of these conditions are simultaneously met:

- A driving gear is engaged (Drive or Reverse).
- Model 3 is stopped or traveling less than 10 mph (16 km/h).
- Model 3 detects an object in its immediate driving path.

To disable Obstacle-Aware Acceleration, touch **Controls** > **Autopilot** > **Obstacle-Aware Acceleration**.



WARNING: Obstacle-Aware Acceleration is designed to reduce the severity of an impact. It is not designed to avoid a collision.



WARNING: Obstacle-Aware Acceleration may not limit torque in all situations. Several factors, including environmental conditions, distance from an obstacle, and a driver's actions, can limit, delay, or inhibit Obstacle-Aware Acceleration.



WARNING: Obstacle-Aware Acceleration may not limit torque when performing a sharp turn, such as into a parking space.



WARNING: Do not rely on Obstacle-Aware Acceleration to control acceleration or to avoid, or limit, the severity of a collision, and do not attempt to test Obstacle-Aware Acceleration. Doing so can result in serious property damage, injury, or death.



WARNING: Several factors can affect the performance of Obstacle-Aware Acceleration, causing an inappropriate or untimely reduction in motor torque. It is the driver's responsibility to drive safely and remain in control of Model 3 at all times.

Limitations and Inaccuracies

Collision Avoidance features cannot always detect all objects, vehicles, bikes, or pedestrians, and you may experience unnecessary, inaccurate, invalid, or missed warnings for many reasons, particularly if:

- 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.).



Collision Avoidance Assist



WARNING: The limitations previously described do not represent an exhaustive list of situations that may interfere with proper operation of Collision Avoidance Assist features. These features may fail to provide their intended function for many other reasons. It is the driver's responsibility to avoid collisions by staying alert, paying attention, and taking corrective action as early as possible.

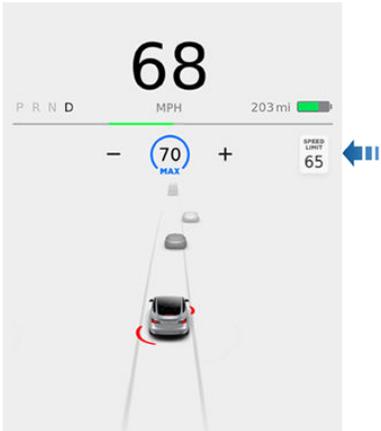


CAUTION: If a fault occurs with a Collision Avoidance Assist feature, Model 3 displays an alert. Contact Tesla Service.



How Speed Assist Works

Model 3 displays a speed limit on the touchscreen and you can choose if and how you are warned when you exceed the speed limit. You can touch this speed limit sign to automatically change the set speed to the detected speed limit (including any offsets that you have set). Also, instead of using the detected speed limit, you can base warnings on an arbitrary speed limit that you enter manually.



NOTE: On roads where the map data determines that a conditional speed limit exists (for example, a speed limit based on time of day or weather conditions), a second speed limit displays below the first speed limit. It is the driver's responsibility to determine whether the conditional speed limit is currently in effect and adjust the driving speed accordingly. You may need to update the onboard maps to display conditional speed limits ([Map Updates on page 166](#)).

In situations where Model 3 is unable to determine a speed limit, or if Speed Assist is uncertain that an acquired speed limit is accurate, the touchscreen may not take effect.

If you set the speed limit warning to **Display** (see [Controlling Speed Assist on page 143](#)) and exceed the determined speed limit, the speed limit sign on the touchscreen increases in size.

If you set the speed limit warning to **Chime** (see [Controlling Speed Assist on page 143](#)) and exceed the determined speed limit, the speed limit sign on the touchscreen increases in size and Model 3 also sounds a warning chime.

NOTE: Speed limit warnings go away after ten seconds, or when Model 3 slows down below the specified limit.



WARNING: Do not rely on Speed Assist to determine the appropriate speed limit or driving speed. Always drive at a safe speed based on traffic and road conditions.

Controlling Speed Assist

To adjust the Speed Limit Warning setting, touch **Controls** > **Autopilot** > **Speed Limit Warning**, then choose one of these options:

- **Off** - Speed limit warnings do not display and chimes are not sounded.
- **Display** - Speed limit signs display on the touchscreen and the sign increases in size when you exceed the determined limit.
- **Chime** - In addition to the visual display, a chime is sounded whenever you exceed the determined speed limit.

You can also specify how the speed limit is determined:

- **Relative** - You can set a speed limit offset (+ or -) if you want to be alerted only when you exceed the offset speed limit by a specified amount. For example, you can increase the offset to +10 km/h if you only want to be warned when you exceed the speed limit by 10 km/h.
- **Absolute** - Manually specify any speed limit between 30 and 240 km/h.

NOTE: Speed Assist is not always accurate. A road's location can be miscalculated and instead Speed Assist can display a speed for a directly adjacent road that may have a different speed limit. For example, Speed Assist can assume Model 3 is on a freeway or highway when it is actually on a nearby surface street, and vice versa.

NOTE: Your chosen setting is retained until you manually change it.



Limitations and Inaccuracies

Speed Assist may not be fully functional or may provide inaccurate information in these situations:

- Visibility is poor and speed limit signs are not clearly visible (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).
- Model 3 is being driven very close to a vehicle in front of it which is blocking the view of the camera(s).
- The windshield is obstructing the view of the camera(s) (fogged over, dirty, covered by a sticker, etc.).
- Speed limit signs are concealed by objects.
- The speed limits stored in the map database are incorrect or outdated.
- Model 3 is being driven in an area where GPS or map data is not available.
- Traffic signs do not conform to standard recognizable formats.
- A road or a speed limit has recently changed.



WARNING: The list above does not represent an exhaustive list of situations that may interfere with proper operation of Speed Assist. Speed Assist may fail to provide warnings for many other reasons.



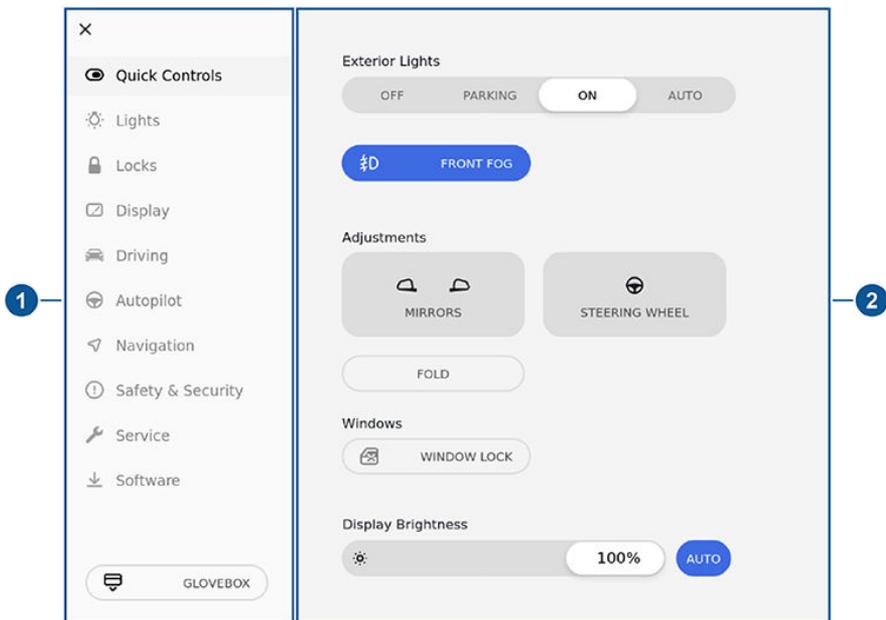
Overview

	<p>Touch Controls on the bottom corner of the touchscreen to control features and customize Model 3 to suit your preferences. The Controls window appears over the map. Touch an option on the left side of the window to display the associated controls and settings. By default, Quick Controls displays for quicker access to commonly used settings.</p>
	<p>To close the Controls window, touch the X in the top left corner, touch Controls again, or swipe down on the window.</p>
	<p>When an information icon displays beside a specific setting, touch it to display a popup that provides helpful details about the associated setting.</p>

NOTE: The following illustrations are for demonstration purposes only. Depending on vehicle options, software version and market region, the options available may be different.



Summary of Controls



1. Control tabs and open glovebox. When you select an item from the list of tabs, its associated controls and options display in the main viewing area.
2. Main viewing area. The options available for your chosen controls category display here.

NOTE: Depending on vehicle configuration and market region, some settings may not be available for your vehicle.

Quick Controls provides easy access to the following commonly-used features:

- **Exterior lights**

OFF	Exterior lights are off until you manually turn them back on. The exterior lights are set to AUTO by default at the start of every drive.
	The exterior side marker lights, parking lights, tail lights, and license plates lights turn on.
ON	Exterior lights are on.
	Exterior lights automatically turn on if Model 3 detects low lighting conditions.

NOTE: For more information on exterior lights, see [Lights on page 68](#).

- **Front Fog:** Activates the front fog lights (only available in some regions).



- **Rear Fog:** If equipped (only available in some regions).
- **Adjust the mirrors:** See [Adjusting Exterior Mirrors on page 62](#).
- **Adjust the steering wheel:** See [Adjusting Steering Wheel Position on page 60](#).
- **Fold the mirrors:** See [Mirrors on page 62](#).
- **Window Lock:** Lock the rear window switches (see [Windows on page 19](#)).
- **Display Brightness:** Adjust the brightness of the display.

Lights

- **Exterior Lights:** Described previously in Quick Controls, or see [Lights on page 68](#).
- **Front Fog:** (Only available in some regions).
- **Rear Fog:** (Only available in some regions).
- **Interior Lights**

Dome Lights: Turn the overhead lights to OFF, ON, or AUTO. When set to AUTO, the dome lights automatically turn on when you unlock the vehicle, open a door upon exiting, or shift into Park.

Ambient Lights: If turned on, the interior lights turn on whenever the headlights are on (if equipped).

- **Auto High Beam:** If on, the high beam headlights can automatically switch to low beam when there is light (for example, from an oncoming vehicle) detected in front of Model 3. See [High Beam Headlights on page 69](#).
- **Headlights after Exit:** If on, the headlights remain on when you stop driving and park Model 3 in low lighting conditions. They automatically turn off after one minute or when you lock Model 3.
- **Steering Wheel Lights:** If on, the arrows associated with the scroll buttons on the steering wheel are backlit when the headlights are turned on.

Locks

- **Keys:** You can see all the keys used for Model 3 and their associated driver profiles. You can add, delete, and change the driver profile associated with each key (see [Driver Profiles on page 57](#)).
- **Window Lock:** Lock the rear window switches (see [Windows on page 19](#)).
- **Child-Protection Lock:** If on, safety locks prevent the rear doors from being opened from inside the vehicle (see [Child-Protection Lock on page 18](#)).
- **Unlock on Park:** If on, doors automatically unlock when you engage the Park gear (see [Interior Locking and Unlocking on page 17](#)).
- **Lock Confirmation Sound:** If on, an audible tone sounds when you lock or unlock Model 3.
- **Walk-Away Door Lock:** If on, doors automatically lock when you walk away from the vehicle while carrying your authenticated phone with you (see [Walk-Away Door Lock on page 17](#)).

Display

- **Display Mode:** Customize the DAY (light background) or NIGHT (dark background) setting of the touchscreen. When set to AUTO, the brightness changes automatically between day and night brightness based on ambient lighting conditions.



- **Brightness:** Drag the slider to manually control the brightness level of the touchscreen. When the AUTO brightness is on, the touchscreen is further adjusted based on both the surroundings and by learning your preferences (for example, it remembers the type of manual adjustments you make).
- **Screen Clean Mode:** When enabled, your touchscreen darkens and is temporarily disabled to facilitate cleaning. Follow the onscreen instructions to exit Screen Clean Mode.

Customize how the units and languages are displayed:

- **Language:** Choose the language that is displayed on the touchscreen.

NOTE: Model 3 must be in Park to change the language. When you change the language, you experience a brief delay as the vehicle shuts down and restarts the touchscreen.

- **Region Format:** Choose a region to define the formatting convention used to display dates (mm dd yy/dd-mm-yy, etc.) and decimal separators (5.123, 5,123, etc.).
- **Navigation Language:** Choose the language used for navigation instructions.
- **Time Format:** Choose if time is displayed in 12 or 24 hour format.
- **Energy Display:** Display remaining energy and charging units as either a percentage of battery energy remaining, or as an estimate of the distance you can drive.
- **Distance:** Choose if miles or kilometers are used when displaying range, speed, energy, trip meters, map searches and navigation routes.
- **Temperature:** Choose if temperature is displayed in °C or °F.
- **Tire Pressure:** Choose if tire pressures are displayed in BAR or PSI.

Driving

- **Acceleration:** Adjust the amount of acceleration. **Chill** limits acceleration for a slightly smoother and gentler ride, whereas **Standard** or **Sport** (depending on vehicle configuration) provides the normal level of acceleration.

NOTE: When Chill is selected, **Chill** displays on the touchscreen above the driving speed.

- **Steering Mode:** Adjust the amount of effort required to turn the steering wheel. **Sport** feels more responsive whereas **Comfort** feels easier to drive and park (see [Adjusting Steering Effort on page 61](#)).
- **Regenerative Braking:** When you release the accelerator when driving, regenerative braking slows Model 3 and feeds any surplus energy back to the Battery. If set to **LOW**, Model 3 does not slow down as quickly, but also feeds less energy back to the Battery (see [Regenerative Braking on page 78](#)).

NOTE: Regardless of the setting selected, the energy gained by regenerative braking is reduced if the Battery is full, or is extremely cold or hot (in which case, surplus energy is used to heat or cool it).

- **Stopping Mode:** Choose how you want Model 3 to behave once regenerative braking has reduced the driving speed to a very low speed, a driving gear is still engaged, and both the accelerator and brake pedals are released. See [Stopping Mode on page 79](#). You can adjust this setting only when Model 3 is in Park.
- **Track Mode:** (available on Performance vehicles only) when enabled, this mode modifies the vehicle's stability control, traction control, regenerative braking, and cooling system to increase performance and handling while driving on closed circuit courses (see [Track Mode on page 86](#)).
- **Slip Start:** Turn Slip Start ON to disable traction control and allow wheels to spin to make it easier to dislodge the vehicle when stuck in mud, snow, ice, etc. (see [Traction Control on page 82](#)).



- **Trailer Mode:** (available only if equipped with the tow package) Must always be active when towing a trailer. Some Autopilot features and rear sensor functionality may not be available. See [Trailer Mode on page 100](#)).

Autopilot Control features that provide a safer and more convenient driving experience. Some Autopilot features are not controlled through **Controls**. See [About Autopilot on page 108](#) for more information.

- **Autosteer (Beta):** Enable the auto steering feature (available only if your vehicle is equipped with an Autopilot package) (see [Autosteer on page 118](#)).
- **Navigate on Autopilot (Beta):** Navigate on Autopilot automatically exits at off-ramps and interchanges based on your navigation route and can also make lane changes designed to prepare for exits and minimize the driving time to your destination (available only if your vehicle is equipped with an Autopilot package) (see [Navigate on Autopilot on page 123](#)).

Customize Navigate on Autopilot: Specify how Navigate on Autopilot performs lane changes and whether you want it to automatically enable at the start of every trip.

NOTE: Navigate on Autopilot is not available in all market regions.

- **Summon (Beta):** Automatically park and retrieve Model 3 from outside the vehicle (available only if your vehicle is equipped with an Autopilot package) (see [Summon on page 128](#)).

Customize Summon: Determine the bumper clearance, distance, amount of side clearance, and whether Summon requires continuous press when active.

- **Full Self-Driving Visualization Preview:** Display more details about the roadway and its surroundings, such as road markings, stop signs, stop lights, objects (such as trash cans and poles), etc. This may not be available on certain vehicle configurations or in some market regions.
- **Speed Limit Warning:** Select the type of warnings, if any, you receive when you exceed the detected speed limit (see [Speed Assist on page 143](#)).
- **Speed Limit:** Specify if you want Speed Assist to use a relative (with offset) or an absolute speed limit (see [Speed Assist on page 143](#)).

Offset: If relative speed limit is selected, set a speed limit offset if you want to be alerted only when you exceed the offset speed limit by a specified amount.

- **Forward Collision Warning:** Choose if and when you want to receive visual and audible warnings in situations where there is a high risk of a frontal collision (see [Collision Avoidance Assist on page 139](#)).
- **Lane Departure Avoidance:** Specify if you want the steering wheel to vibrate slightly if a front wheel passes over a lane marking and the associated turn signal is off (see [Lane Assist on page 136](#)).
- **Emergency Lane Departure Avoidance:** In emergency situations, Model 3 attempts to prevent a potential collision with an object in an adjacent lane by steering the vehicle back into your driving lane (see [Emergency Lane Departure Avoidance on page 137](#)).
- **Blind Spot Collision Warning Chime:** Choose if you want a chime to sound when a vehicle is in your blind spot and a possible collision is detected (see [Blind Spot Collision Warning Chime on page 137](#)).
- **Automatic Emergency Braking:** When toggled on, Model 3 automatically applies braking when a frontal collision is imminent (see [Collision Avoidance Assist on page 139](#)).



- **Obstacle-Aware Acceleration:** When toggled on, your vehicle automatically reduces acceleration when an obstacle is detected in front of your vehicle while driving at low speeds (see [Collision Avoidance Assist on page 139](#)).

NOTE: Depending on market regions, options purchased, and software version, your vehicle may not be equipped with all Autopilot features.

Navigation

Customize how the navigation system works by adjusting these settings:

- **Volume Control:** Increase or decrease the volume of spoken navigation instructions by touching - or +, respectively. Decreasing all the way to the left mutes the instructions. You can also mute navigation instructions when a navigation route is active by touching the volume icon on the turn-by-turn direction list.

NOTE: The volume setting applies only to the navigation system's spoken instructions. Volume for Media Player and Phone remains unchanged.

- **Automatic Navigation:** Provided your phone's calendar is synced to Model 3, you are automatically routed to an event if you get into your vehicle within two hours of an event's start time (if the event on your calendar includes a valid address). Automatically navigate to Home and Work on weekdays (see [Automatic Navigation on page 163](#)).
- **Trip Planner:** (If available in your market region) Use Trip Planner to plan your driving and charging routes (see [Trip Planner on page 165](#)).
- **Online Routing:** When toggled on, you may be automatically rerouted to avoid heavy traffic (see [Online Routing on page 164](#)).
- **Avoid Ferries:** When toggled on, navigation routes avoid the use of ferries.
- **Avoid Tolls:** When toggled on, navigation routes avoid the use of tolls.

NOTE: You can also display navigation settings by touching the settings icon on the map (see [Maps and Navigation on page 160](#)).

Safety & Security

- **Parking Brake:** Manually apply and release the parking brake (see [Parking Brake on page 80](#)).
- **Power Off:** You can power off your vehicle.
- **Speed Limit Mode:** Specify if and by how much you want to limit acceleration and max speed (see [Speed Limit Mode on page 152](#)).
- **Sentry Mode:** When on, Sentry Mode uses the vehicle's cameras and sensors to monitor its surroundings while the vehicle is locked and in Park. If a threat is detected, Sentry Mode triggers the Alert or Alarm state, depending on the severity of the threat. You can customize Sentry Mode to automatically enable except in places such as Home, Work, or your Favorites (see [Sentry Mode on page 176](#)).
- **Save Clips on Honk:** When using Dashcam, you can determine whether you want to save video recordings to a USB flash drive or other storage device when honking the horn on the steering wheel. You must insert a properly formatted USB flash drive or other storage device in one of your vehicle's front USB ports (see [Dashcam on page 92](#)) and toggle **Save Clips on Honk ON** to enable.
- **Passenger Front Airbag:** Manually control the front passenger airbag (applicable only in regions where the airbag can be disabled, as described in [Airbags on page 52](#)).

NOTE: If applicable, the passenger front airbag can also be controlled by touching the airbag's status icon located in the top corner of the touchscreen.



- **Park Assist Chimes:** If on, you an audible beep sounds when approaching an object while parking (see [Park Assist on page 83](#)).
- **Joe Mode:** When enabled, Joe Mode lowers the volume of your vehicle's chimes, except for turn signals.
- **Security Alarm:** Enable the security alarm (see [Security Settings on page 176](#)).
- **Tilt/Intrusion:** (if available) Enable a siren that sounds if Model 3 detects motion inside the cabin or if the vehicle is moved or tilted (see [Security Settings on page 176](#)).
- **PIN to Drive:** Increase security by preventing Model 3 from being driven until a 4-digit PIN (Personal Identification Number) is entered (see [PIN to Drive on page 176](#)).
- **Cabin Overheat Protection:** Reduce the temperature of the cabin in extremely hot ambient conditions for a period of up to twelve hours after you exit Model 3 (see [Cabin Overheat Protection on page 159](#)).
- **Allow Mobile Access:** Allow Tesla's mobile applications to access your Model 3 (see [Mobile App on page 186](#)).

NOTE: To disable Allow Mobile Access, enter your Tesla account credentials on the touchscreen.

- **Data Sharing:** Allow sharing of road measurement data (see [Data Sharing on page 242](#)).

NOTE: Sentry Mode and Cabin Overheat Protection operate only when the energy remaining in the Battery is above 20%.

Service

- **Wiper Service Mode:** Make wiper blades easy to access (see [Wiper Blades and Washer Jets on page 213](#)).
- **Adjust Headlights:** Make adjustments to the level of the headlights (see [Headlight Adjustments on page 70](#)).



CAUTION: Headlights should only be adjusted by Tesla Service.

- **Towing:** Prepare Model 3 for transporting by keeping it in Neutral (which disengages the parking brake and prevents damage to the rear motor that is caused by wheels turning as Model 3 is pulled onto a flatbed truck). See [Instructions for Transporters on page 235](#).
- **Reset TPMS Sensors:** Reset the TPMS sensors after replacing a wheel (see [Manually Resetting TPMS Sensors on page 205](#)).
- **Factory Reset:** Erase all personal data (saved addresses, music favorites, etc.) and restore all customized settings to their factory defaults.
- **Wheel Configuration:** Update your vehicle's wheel configuration if you are installing new wheels or swapping them for different ones. This also changes the wheels of your vehicle's avatar on the touchscreen.

NOTE: Changing your vehicle's wheel configuration can impact range estimates, tire pressure warning levels, and vehicle visualization. See [Tire Care and Maintenance on page 201](#) for more information.



WARNING: Only use Tesla-approved wheels when installing or swapping wheels. Using non Tesla-approved wheels can cause serious damage. Tesla is not liable for damage caused by using wheels not approved by Tesla.

- **Owner's Manual:** Display this manual. You can also display this manual by touching the Tesla "T" at the top of the touchscreen.

Software



Learn more about your vehicle and the status of software updates.

- Get more information about your vehicle such as the VIN, vehicle name, and odometer. Touch **Additional vehicle information** to display a list of the various options your vehicle is equipped with.

NOTE: You can also display some of the vehicle information by touching the Tesla “T” at the top center of your touchscreen.

- View your current software version, map version, and release notes.
- See new updates that are available. Your vehicle must be connected to Wi-Fi to start the update (see [Software Updates on page 184](#)).
- Observe your software’s download progress.

The yellow clock icon at the top of the touchscreen is replaced by a green download icon when a software update is available, your vehicle is connected to Wi-Fi, and the update is downloading. A yellow download icon appears when a software update is available, but the vehicle is not connected to Wi-Fi. Ensure your vehicle is connected to Wi-Fi to start the download.

- Customize how often you want to receive software updates by touching **Software Update Preferences**.

Glovebox Touch to open the glovebox (see [Glovebox on page 25](#)).

Naming Your Vehicle

To further personalize Model 3, you can name it. The name of your Model 3 appears in the mobile app. To name your vehicle, touch the Tesla “T” at the top center of the touchscreen, then touch **Name Your Vehicle** (or touch the vehicle’s existing name). Enter the new name in the popup, then touch **Save**.

Speed Limit Mode

Speed Limit Mode allows you to limit the acceleration and maximum speed – between 50 and 90 mph (80 and 145 km/h) – of your Model 3. This feature is protected by a 4-digit PIN that you create when enabling it for the first time, and which must be entered whenever you want to disable and enable it.

If your Model 3 comes within approximately 3 mph (5 km/h) of the selected maximum speed, a chime sounds and text appears on the touchscreen above the driving speed. Additionally, your mobile app sends you a notification.

To enable Speed Limit Mode:

1. Ensure the vehicle is in Park.
2. Touch **Controls** > **Safety & Security** > **Speed Limit Mode** on the touchscreen or **CONTROLS** in your mobile app.
3. Select the maximum driving speed that you would like to limit the vehicle to.
4. Drag the slider to the **ON** position.
5. Enter the 4-digit PIN that you want to use to disable and enable Speed Limit Mode.



NOTE: If you forget the PIN, you can disable Speed Limit Mode by entering the login credentials for your Tesla Account.

NOTE: When Speed Limit Mode is enabled, the acceleration setting (**Controls > Driving > Acceleration**) is automatically set to **Chill**.



WARNING: Driving downhill can increase driving speed, causing the vehicle to exceed your chosen maximum speed.



WARNING: Speed Limit Mode is not a replacement for good judgment, driver training, and the need to closely monitor roadway speed limits and driving conditions. Accidents can occur at any speed.

Erasing Personal Data

You can erase all personal data (saved addresses, music favorites, HomeLink programming, etc.) and restore all customized settings to their factory defaults. This is useful when transferring ownership of Model 3. Touch **Controls > Service > FACTORY RESET**. Before erasing, Model 3 verifies your credentials by prompting you to enter the user name and password associated with your Tesla Account.

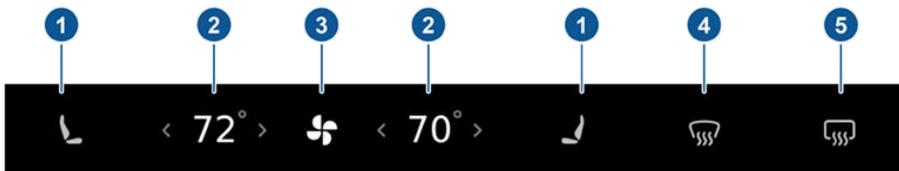


Overview of Climate Controls

Climate controls are always available at the bottom of the touchscreen. To turn the climate control system on, touch the fan icon or adjust the cabin temperature. To turn it off, touch the fan icon and then touch the off button near the center of the popup window.

By default, climate control is set to the Auto setting, which maintains optimum comfort in all but the most severe weather conditions. When you adjust the cabin temperature in the Auto setting, the system automatically adjusts the heating, air conditioning, air distribution, and fan speed to maintain the cabin at your selected temperature. To override the Auto setting, touch the fan icon, turn off the Auto setting, then manually adjust your settings (see [Adjusting Climate Control Settings on page 155](#)). If you've manually adjusted individual settings, you can also revert back to Auto at any time by touching **AUTO** on the climate control popup window.

NOTE: The following illustration is provided for demonstration purposes only. Depending on vehicle options, software version, market region, and settings, the information displayed may be slightly different.



1. Seat heaters operate at three setting levels from 3 (highest) to 1 (lowest). When operating, the associated seat icon displays twisting lines that turn red to indicate the setting level. If equipped with the premium package, rear seats are also equipped with seat heaters (see [Operating Seat Heaters on page 157](#)).

2. Touch an up or down arrow to change the cabin temperature. To apply a temperature setting to both the driver and passenger side, touch **SYNC** on the popup that appears when you touch an arrow. When you apply the same temperature to both sides, only one temperature setting displays. Touch **SYNC** again to display separate temperature settings for the driver and passenger.

3. Touch the fan icon to turn on climate control and to manually customize settings to suit your preferences (see [Adjusting Climate Control Settings on page 155](#)). Touch and hold the fan icon to quickly turn off climate control. If your vehicle is equipped with the premium package, touch this icon to access controls for the rear seat heaters.

4. The windshield defroster distributes air flow to the windshield. Touch once to defog the windshield (the icon turns blue). Touch a second time to defrost the windshield (the icon turns red and the heating and fan operate at maximum levels). Touch a third time to turn off and restore the air distribution, heating, and fan to their previous settings. The exterior side mirrors are also heated whenever the windshield defroster is operating. See [Cold Weather Best Practices on page 104](#) for more information on preparing for cold weather.

5. Touch to warm up the rear window. When operating, the icon turns red. After 15 minutes, the rear window defroster automatically turns off. The exterior side mirrors are also heated whenever the rear window defroster is operating.



WARNING: To avoid burns resulting from prolonged use, individuals who have peripheral neuropathy, or whose capacity to feel pain is limited because of diabetes, age, neurological injury, or some other condition, should exercise caution when using the climate control system and seat heaters.



NOTE: The climate control system is powered by the high voltage battery. Therefore, prolonged use decreases driving range.

Adjusting Climate Control Settings

To override the Auto setting, touch the fan icon, turn off the Auto setting, then use the buttons that appear to manually adjust settings.



In addition to the settings shown, if Model 3 is in Park, the Keep Climate On, Dog Mode, and Camp Mode setting displays when you touch the fan icon when the vehicle is in Park (see [Keep Climate On, Dog Mode, and Camp Mode](#) on page 158).

1. Touch **AUTO** to turn the Auto setting on or off.
2. Touch to turn the climate control system off.
3. The general settings tab displays by default and is represented by the fan icon. Touch the seat heater icon to access controls for the front and rear seat heaters (see [Operating Seat Heaters](#) on page 157).
4. Choose where air flows into the cabin (windshield, face-level, or foot-level vents). You can choose more than one location.

NOTE: When air is directed to the foot-level vents, air continues to flow to the windshield vents to assist in defogging. When air is directed to the face-level vents, air does not flow to the windshield.
5. Touch to turn air flow to the rear cabin area on or off. When on, air flows from the vents located at the back of the center console. See [Adjusting the Rear Vents](#) on page 157.
6. Touch to adjust air flow from the front passenger vent. See [Adjusting the Front Vents](#) on page 157.
7. Touch to choose how air is drawn into Model 3. If on, air inside Model 3 is recirculated. If off, outside air is drawn into Model 3.
8. Touch **+** or **-** to increase or decrease the fan speed.

NOTE: Adjusting the fan speed may change the selected setting for how air is drawn into Model 3 in order to increase or reduce air flow.
9. Touch to turn the air conditioning system on or off. Turning it off reduces cooling, but saves energy.



NOTE: Because Model 3 runs much quieter than a gasoline-powered vehicle, you may notice the sound of the air conditioning compressor as it is operating. To minimize noise, reduce the fan speed.

10. Touch to adjust air flow from the driver's vent. See [Adjusting the Front Vents on page 157](#).

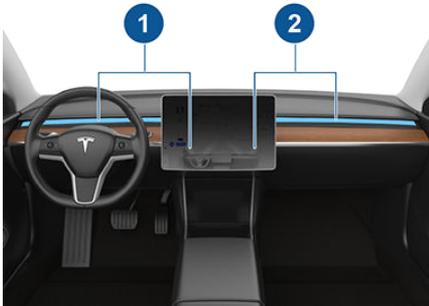


Operating Seat Heaters

To control the front seat heaters for the driver and passenger, touch the corresponding control on the main climate control area at the bottom of the touchscreen. To control the rear seat heaters (if equipped) or access duplicate controls for the front seat heaters, touch the fan icon, then touch the seat heater icon followed by the seat for which you want to adjust heating. Seat heaters operate at three setting levels from 3 (highest) to 1 (lowest). When operating, the associated seat icon displays twisting lines that turn red to indicate the setting level. You can touch **All Off** to turn off all seat heaters simultaneously.

Adjusting the Front Vents

Model 3 has a unique horizontal face-level vent that spans the width of the dashboard. Using the touchscreen, you can pinpoint exactly where you want to direct the air flowing from this vent when heating or cooling the front cabin area.



1. Driver vent and controls
2. Passenger vent and controls

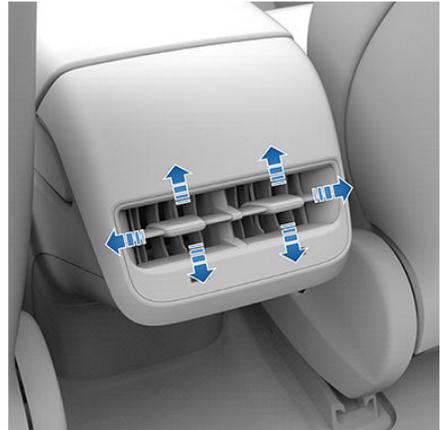
When the face-level vent is on you can adjust the direction of the air flow from each vent. To adjust the direction of the air flow, simply touch the radiating air waves from the corresponding vent on the touchscreen. The air flows in a single stream when centered or splits into mirrored air streams when air is directed outward or inward from the center of the vent.

NOTE: When you split a vent into two separate air flows, the air flow in each direction is not as strong as when all air is flowing in a single direction.

NOTE: Outside air is drawn into Model 3 through the grill in front of the windshield. Keep the grill clear of obstructions, such as leaves and snow.

Adjusting the Rear Vents

Model 3 has vents located at the back of the center console where air flows from when the setting is turned on from the touchscreen. To direct the flow of air in the rear cabin area, adjust the vents at the rear of the center console up, down, or from side to side as necessary.





Keep Climate On, Dog Mode, and Camp Mode

The **Keep Climate On, Dog, and Camp** settings allow you to keep the climate control system running when in Park, even after you've left Model 3 or choose to stay inside the vehicle. These settings are useful when it is important to maintain the cabin temperature in hot or cold weather conditions. For example, when leaving groceries in Model 3 on hot days, you may want to use Keep Climate On to prevent spoilage.

Dog mode keeps your pet comfortable while also displaying the current cabin temperature on the touchscreen so people nearby are informed that your pet does not need to be rescued.

Camp Mode allows you to power electronics through the USB ports and 12V outlet in addition to maintaining the cabin temperature. The touchscreen remains on so you can play music, browse the internet, play games in the arcade, or watch shows in Tesla Theater. You can also control media and climate settings from a paired phone. Camp Mode is ideal for remaining inside your vehicle, such as camping or staying with a child.

NOTE: In Camp Mode, Sentry Mode and the vehicle alarm system are disabled.

To operate Keep Climate On, Dog Mode, or Camp Mode:

1. Engage the Park gear. The **Keep Climate On, Dog, and Camp** settings are available only when Model 3 is in Park.
2. If necessary, adjust the climate settings.
3. Touch the fan icon then touch **Keep Climate On, Dog, or Camp**.

NOTE: To initiate Keep Climate On, Dog Mode, or Camp Mode, the Battery's charge level must be at least 20%.

The climate control system maintains your climate settings until you shift out of Park or manually turn it off. If the Battery's charge level drops below 20%, the Tesla mobile app repeatedly starts sending you notifications reminding you to check on anything that you have left in Model 3.

The next time you drive Model 3, the climate control system continues operating using the previous climate settings from your most recent trip.

NOTE: Software updates cannot be performed when Keep Climate On, Dog Mode, or Camp Mode is active.

NOTE: The intrusion sensor (if equipped) automatically disables when Keep Climate On, Dog Mode, or Camp Mode is active. However, you can override this behavior and keep the intrusion sensor enabled. To do so, touch **Controls > Safety & Security > Tilt/Intrusion** after enabling Keep Climate On, Dog mode, or Camp mode. However, note that keeping the intrusion sensor enabled while Keep Climate On, Dog Mode, and Camp Mode is active can trigger an alarm event as a result of air movement inside the cabin.



WARNING: You can adjust the climate control system remotely using the mobile app. However, if you use the mobile app to turn off the climate control system, Keep Climate On, Dog Mode, and Camp Mode stop operating.



WARNING: Avoid using Keep Climate On, Dog Mode, or Camp Mode when the battery charge is low. When leaving a dog or pet in Model 3, you must ensure that you have your phone with you and that the Tesla mobile app is running. This allows you to proactively monitor the cabin temperature. To ensure the safety and comfort of anyone or anything in your vehicle, always make sure you have adequate cellular coverage to receive notifications and allow enough time to return to Model 3 should the climate control system stop operating—on hot days, the cabin temperature can become dangerously high within a few minutes.



WARNING: Check local laws for any restrictions on leaving pets unattended in your vehicle.



WARNING: Never leave a child unattended in your vehicle.



Cabin Air Filter

Model 3 has an air filter that prevents pollen, industrial fallout, road dust and other particles from entering through the vents. Tesla recommends replacing the cabin air filter every 2 years.

Cabin Overheat Protection

The climate control system can reduce the temperature of the cabin in extremely hot ambient conditions for a period of up to twelve hours after you exit Model 3. Touch **Controls > Safety & Security > Cabin Overheat Protection** and choose:

- **OFF:** Disable Cabin Overheat Protection.
- **NO A/C:** Only the fan operates when the cabin temperature exceeds 40° C. This option consumes less energy but the cabin temperature may exceed 40° C.
- **ON:** The air conditioning operates when the cabin temperature exceeds 40° C.

NOTE: Cabin Overheat Protection operates only when the energy remaining in the Battery is above 20%.



WARNING: Never leave children or pets in the vehicle unattended. Due to automatic shut-off or extreme outside conditions, the inside of the vehicle can become dangerously hot, even when Cabin Overheat Protection is enabled.

Climate Control Operating Tips

- You can direct the face-level vents toward the windows to help defrost or defog them.
- When you use the mobile app to turn on the climate control system, it automatically turns off after four hours or if the charge level drops to 20%. To cool or heat the cabin for a longer period, you must turn it on again.
- If the climate control system is louder than you prefer, manually reduce the fan speed.

• In addition to cooling the interior, the air conditioning compressor also cools the Battery. Therefore, in hot weather, the air conditioning compressor can turn on even if you turned it off. This is normal because the system's priority is to cool the Battery to ensure it stays within an optimum temperature range to support longevity and optimum performance.

• Even when not in use, you may hear Model 3 emit a whining noise or the sound of water circulating. These sounds are normal and occur when the internal cooling systems turn on to support various vehicle functions, such as maintaining the 12V battery and balancing the temperature of the high voltage Battery.

• To ensure the climate control system operates efficiently, close all windows and ensure that the exterior grill in front of the windshield is free of ice, snow, leaves, and other debris.

• In very humid conditions, it is normal for the windshield to fog slightly when you first turn on the air conditioning.

• It is normal for a small pool of water to form under Model 3 when parked. Extra water produced by the dehumidifying process is drained underneath.

• To reduce the temperature in the cabin in hot weather conditions, the fan may turn on to vent the cabin when the vehicle is parked. This occurs only if the battery's charge level is above 20%.



Overview

The touchscreen displays a map at all times. To move the map in any direction, hold and drag a finger. To rotate the map in any direction, hold and turn two fingers.

To set the map's orientation, touch the icon in the top right corner of the map:

	North Up - North is always at the top of the screen.
	Heading Up - The direction you are driving is always at the top of the screen. The map rotates as you change direction. This icon has an integrated compass that indicates the direction you are driving. NOTE: When navigating, this icon also allows you to view the route overview view and guide you by displaying the current portion of your navigation route (see Navigating on page 162).

When you rotate or move the map, your current location is no longer tracked. The message "Tracking Disabled" displays briefly next to the map orientation icon and the icon turns gray. To re-enable tracking, touch the map's orientation icon to choose North Up or Heading Up.

Touch the + and - icons to zoom the map in and out on your current or chosen location. When you zoom in or out using these icons, tracking remains enabled.

Touch the following icons to customize what the map displays and to access navigation settings:

NOTE: These icons disappear after a few seconds when not in use. Touch anywhere on the map to re-display them.

	Display/hide satellite imagery (if equipped with premium connectivity).
	Display/hide traffic conditions (if equipped with premium connectivity). Green lines indicate no traffic; orange lines indicate light traffic; red lines indicate moderate traffic; and pink lines indicate heavy traffic. To ensure traffic is easy to identify along a navigation route, green traffic lines display under the blue route line, whereas orange, red, and pink traffic lines display on top of the blue route line.



Display/hide all charging locations and a popup list that includes the city and proximity of the corresponding stations on the map. Charging locations include Tesla Superchargers, Tesla destination chargers, third party fast chargers (see note below), and public chargers that you have used previously. See [Charging Locations on page 163](#).

NOTE: In some market regions, third party fast chargers are also included on the map as dark grey pins when you display chargers.

NOTE: The map always displays Superchargers, even when you hide charging locations.



Increase or decrease the volume of spoken navigation instructions by touching - or +, respectively. Decreasing all the way to the left mutes the instructions. You can also mute navigation instructions when a navigation route is active by touching the volume icon on the turn-by-turn direction list.

Customize how the navigation system works by adjusting these settings (the available settings vary depending on your market region and vehicle configuration):

- Touch **Trip Planner** to minimize the time you spend driving and charging (see [Trip Planner on page 165](#)).
- Touch **Online Routing** to be automatically rerouted to avoid heavy traffic (see [Online Routing on page 164](#)).
- Touch **Avoid Ferries** to be automatically routed to avoid ferries.
- Touch **Avoid Tolls** to be automatically routed to avoid tolls.

NOTE: You can also access the above navigation settings by touching **Controls > Navigation**.

NOTE: The volume setting applies only to the navigation system's spoken instructions. Volume for Media Player and Phone remains unchanged.

Drop a pin by pressing and holding your finger anywhere on the map. When you drop a pin, or touch an existing pin, the chosen location is centered on the map, and a popup window provides information about the location. From this popup, you can navigate to the location, call the location (if a phone number is available) and add or remove the location from your list of favorite destinations (see [Recent, Favorite, Home and Work Destinations on page 165](#)).



Navigating

To navigate to a location, touch **Navigate**, send the destination from your phone, or speak a voice command (see [Using Voice Commands on page 175](#)). You can enter or speak an address, landmark, business, etc. You can also choose a saved **Home** or **Work** location and select from a list of recently used locations (the most recent displays at the top of the list), including charging stations you have visited.

NOTE: To remotely start navigation from your iOS® or Android™ device, use the “share” functionality after giving access to the Tesla mobile app.

When you specify a location, the touchscreen zooms out to provide an overview of the route you need to travel, and, after calculating the route, zooms back in to your starting point and begins to provide instructions. A turn-by-turn direction list displays the first navigation instruction and an estimate of total mileage, driving time, and arrival time. To expand the list to show each turn on your navigation route, touch the instruction. Note the following about the turn-by-turn direction list:

- A battery displays below the destination to provide an estimate of how much battery energy will remain when you reach your destination. Touch to expand battery information to show a round trip estimate back to your starting point. See [Predicting Energy Usage on page 164](#).
- If charging is needed to reach your destination and Trip Planner is enabled (and available in your market region), the navigation route automatically includes Supercharger stops (see [Trip Planner on page 165](#)) and you may need to touch **BEGIN TRIP** to initiate navigation.
- If you won't have enough energy to reach your destination and there is no Supercharger on the route, an alert tells you that charging is needed to reach your destination.
- Each turn is preceded by the distance to the maneuver.
- To see the bottom of the list, you may need to drag the list upward.

- Touch the top of the list again to minimize it.

While navigating, the map tracks your location and displays the current leg of your trip. You can display the entire route at any time.

If Navigate on Autopilot (if available in your market region) is enabled, you can turn it on for the navigation route by touching **Navigate on Autopilot** in the turn-by-turn direction list. Navigate on Autopilot is an extension of Autosteer that automatically changes lanes and steers Model 3 onto the appropriate exit(s) when navigating on controlled access roads (such as freeways). For details, see [Navigate on Autopilot on page 123](#).

	<p>The route overview icon displays when a navigation route is active. Touch this icon at any time to view an overview of your navigation route, or to change the orientation of the map (see Overview on page 160), which also zooms the map to show the current leg of your trip. The black pin at the end of the route line represents your destination.</p>
	<p>Mute/unmute navigation volume.</p> <p>NOTE: You can also mute the volume of the navigation system by pressing the scroll button on the left side of the steering wheel while navigation instructions are being spoken. A volume control specific to navigation instructions is also available by touching the settings icon on the map (see Overview on page 160).</p>

To stop navigating, touch **CANCEL**, located below the turn-by-turn direction list.



NOTE: If a data connection is not available, onboard maps allow you to navigate to any location, but you must enter the location's exact and complete address.

Automatic Navigation

Automatic Navigation can predict a destination when you get in your vehicle. When your phone's calendar is synced to Model 3, and the calendar includes an event that takes place within two hours of when you get in your vehicle to drive, Automatic Navigation suggests the location of the event (assuming a valid address is associated with the event).

In addition, if you are Home and get in your vehicle on weekdays (Monday to Friday) from 5:00 AM to 11:00 AM, Automatic Navigation can automatically route you to your specified Work location (see [Recent, Favorite, Home and Work Destinations on page 165](#)). Likewise, if you are at work on weekdays from 3:00 PM to 11:00 PM, Automatic Navigation can automatically route you to your specified Home location.

To enable Automatic Navigation, touch **Controls > Navigation > Automatic Navigation**. You must have your phone's calendar correctly synced to your vehicle with a uniquely specified and valid address for each event (see [Calendar on page 174](#)). Your Automatic Navigation settings are saved to your Driver Profile (see [Driver Profiles on page 57](#)).

NOTE: Navigation instructions that you enter manually, or send to Model 3, override routes suggested by Automatic Navigation.

NOTE: Availability of this feature depends on market region and vehicle configuration.

I'm Feeling Lucky, Hungry

In addition to navigating to a destination of your choice, Model 3 can also suggest nearby locations based on whether you are feeling **Hungry** or **Lucky**. In the navigation search bar, touch **Hungry** or **Lucky**. **Hungry** suggests popular restaurants, whereas **Lucky** suggests popular destinations (such as museums and amusement parks). For a new suggestion, go back and touch **Hungry** or **Lucky** again for different results. When you discover a destination that interests you, touch **Navigate** to proceed to the destination.

This feature requires the latest version of Navigation maps. To download, connect your vehicle to Wi-Fi and navigate to **Controls > Software** to check if an update is available (see [Map Updates on page 166](#)).

NOTE: Availability of this feature depends on market region and vehicle configuration.

Charging Locations

The map always displays Supercharger locations, represented by red pins that you can touch to display more information, navigate to it, or mark it as a favorite. The appearance of the pin itself reveals information about the Supercharger location:

	<p>The Supercharger location is operational. At locations with multiple Superchargers, a row of bars displays above the icon, with each bar representing a Supercharger. If a Supercharger is in use, the bar is filled in to provide a quick visual that indicates how many Superchargers are currently being used at the location. Superchargers that may be out of order in addition to the number available are also displayed.</p> <p>NOTE: A Supercharger pin is colored black if located on your current navigation route.</p>
	<p>The Supercharger location may be out of operation or is operating at a reduced capacity. Touch the pin to display details.</p>

When you touch the pin for a Supercharger location, a popup displays information, including the total number of Superchargers, the number of Superchargers available, the address of the Supercharger location, and its approximate distance from your current location. The popup also displays amenities



that are available at the Supercharger location, including restrooms, restaurants, lodging, shopping, and Wi-Fi.

Touch the map's charging icon to display all nearby charging stations of the map. In addition to the Superchargers, the map displays Tesla's destination chargers, third party fast chargers (see note below), and any public charging stations that you have previously used. Display details about a charging location by touching its pin.

NOTE: In some market regions, third party fast chargers are also included as dark grey pins when you choose to display all charging stations on the map.

	<p>The location is equipped with a Tesla Wall Connector. Touch to display more information such as usage restrictions and available charge current. The charging list also displays your proximity to these charging stations.</p> <p>NOTE: When the map is zoomed out and more than one Tesla Wall Connector is available in an area, the pin is round and displays the number of stations. Touch the pin to zoom in. Then you can touch an individual pins for details about a specific charging location.</p>
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NOTE: When navigating to a Supercharger location, Model 3 may allocate energy to pre-heat the Battery, ensuring you arrive at the Supercharger with the optimal Battery temperature, reducing the amount of time it takes to charge. In some circumstances (such as cold weather), it is normal for the front motor to make noise as it generates heat to warm the Battery (see [Warming the Battery Before Supercharging on page 105](#)).

Predicting Energy Usage

When navigating to a destination, Model 3 helps you anticipate your charging needs by calculating the amount of energy that remains when you reach your destination. The calculation is an estimate based on driving style (predicted speed, etc.) and environmental factors (elevation changes, temperature, etc.). When navigating, the map displays this calculation at the bottom of the expanded turn-by-turn direction list (see [Navigating on page 162](#)). When the turn-by-turn direction list is compressed, touch the top of the list to expand it.

Throughout your route, Model 3 monitors energy usage and updates the calculation. A popup warning displays at the bottom of the turn-by-turn direction list in these situations:

- A yellow warning displays when you have very little energy remaining to reach your destination and should drive slowly to conserve energy. For tips on conserving energy, see [Getting Maximum Range on page 89](#).
- A red warning displays when you must charge to reach your destination.

If you also want to know if you have enough energy for a round trip, touch the energy calculation to display an estimate of your round trip energy usage.

Online Routing

Model 3 detects real-time traffic conditions and automatically adjusts the estimated driving and arrival times based on traffic. In situations where traffic conditions will delay your estimated time of arrival and an alternate route is available, the navigation system can reroute you to your destination. To turn this feature on or off, touch the map's settings icon (see [Overview on page 160](#)), then touch **Online Routing**. You can also specify the minimum amount of minutes that must be saved before you are rerouted by touching the arrows associated with the **Re-Route if it saves more than** setting.



Trip Planner

Trip Planner (available in some market regions) helps you take longer road trips with confidence. If reaching your destination requires charging, Trip Planner routes you through the appropriate Supercharger locations. Trip Planner selects a route and provides charging times to minimize the amount of time you spend driving and charging. To enable Trip Planner, touch the map's settings icon (see [Overview on page 160](#)), then touch **Trip Planner**.

When Trip Planner is enabled and charging is required to reach your destination, the turn-by-turn direction list includes Supercharger stops and a recommended charging time at each Supercharger, and an estimate of how much energy will be available when you arrive at the Supercharger.

NOTE: When navigating to a Supercharger using Trip Planner, your vehicle will allocate some energy to pre-heat the Battery. The vehicle arrives at the Supercharger with an optimal Battery temperature, reducing the amount of time it takes to charge (see [Warming the Battery Before Supercharging on page 105](#)).

To remove Supercharger stops and display only directions, touch **Remove charging stops** at the bottom of the list of directions (if you remove charging stops, the turn-by-turn direction list may display an alert indicating that charging is needed to reach your destination). To add Supercharger stops to the directions, touch **Add charging stops**.

While charging at a Supercharger, the charging screen displays the remaining charging time needed to drive to your next Supercharger stop, or destination (if no further charging is needed). If you charge for a shorter or longer length of time, the charging time for subsequent Supercharger stops is adjusted.

NOTE: You can also monitor remaining charging time needed in the Tesla Mobile App.

NOTE: If a Supercharger located on your route experiences an outage, Trip Planner displays a notification and reroutes you to a different Supercharger location.

If Trip Planner estimates that you won't have enough energy for your round trip, and there are no Superchargers available on your route, Trip Planner displays an alert at the top of the turn-by-turn direction list notifying you that charging is needed to reach your destination.

Recent, Favorite, Home and Work Destinations

When you touch **Navigate** on the map, a list of **Recent** destinations appear and you can easily navigate to any recent destination by selecting it from the list.

If you frequently drive to a destination, you may want to add it as a favorite to avoid having to enter the location's name or address each time. When you add a destination as a Favorite, you can easily navigate to it by touching **Navigate > Favorites** and then selecting it from the list of favorites.

	<p>To add a destination to your Favorites list touch its pin on the map, then touch the heart icon on the popup window that appears. You will be prompted to name the Favorite. Enter a name (or leave as-is to accept the default name), then touch Add to Favorites. The heart becomes solid gray and the destination is included on the Favorites list.</p>
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To delete a Recent or Favorite destination, touch and hold it down briefly, then touch the **X** that appears.

The top of the navigation list also provides shortcuts for **Home** and **Work** locations. Touch to set an address to either of these locations. After entering the address, touch **SAVE AS HOME** or **SAVE AS WORK**. Then simply touch these shortcuts whenever you want to navigate home or to work.

To change the location associated with Home or Work, press and hold the shortcut icon and enter a new address in the popup window. To delete, press and hold the shortcut button, then touch **CLEAR HOME** or **CLEAR WORK**.



NOTE: Based on your usage patterns, you may be prompted to save a location as Home or Work.

NOTE: Once a Home or Work location is saved, Model 3 may prompt you to navigate to your Work location in the mornings and to your Home location in the evenings and tell you how long it will take to arrive based on current traffic conditions.

For security reasons, if you sell Model 3, it is recommended that you delete your Home and Work Locations. You can delete these individually or you can perform a factory reset to erase all personal data (see [Erasing Personal Data on page 153](#)).

Map Updates

As updated maps become available, they are automatically sent to Model 3 over Wi-Fi. To ensure you receive them, periodically connect Model 3 to a Wi-Fi network (see [Connecting to Wi-Fi on page 183](#)). The touchscreen displays a message informing you when new maps are installed.



Overview



Touch the Media Player icon at the bottom of the touchscreen to play various types of media through your vehicle's speaker system. The media options available to you depend on market region and options chosen at time of purchase. For example, you can stream internet radio or podcasts (if equipped with premium connectivity), listen to FM, and DAB radio. You can also play audio files from a Bluetooth or USB-connected device.

Media Player provides three different levels of viewing that you can access by dragging the Media Player window upward or downward. Initially, just the Miniplayer displays. The Miniplayer, which occupies the least amount of space on the touchscreen, displays what's currently playing and provides only the basic functions, mostly associated with what's playing. Drag upward to display Recents and Favorites and access the icons you can use to change your media source (described next). Drag upward again to browse through all available options for the chosen type of source content.

Use the icons across the bottom of Media Player to change your media source (for example, FM, Streaming, or a Bluetooth-connected device). Use the tabs on the left to narrow down the type of content you want to browse through—the associated content displays on the right. For Radio, you can browse through Favorite Stations or you can touch **Direct Tune** to enter the frequency of a specific channel. For Streaming, you can browse through Favorites, Top Stations, DJ Series, and Genres.

Volume Control

Roll the scroll button on the left side of the steering wheel up or down to increase or decrease volume respectively. The scroll button adjusts the volume for media, navigation instructions, or phone calls, based on what is currently being heard through the speakers. You can also adjust the volume by touching the arrows associated with the speaker icon on the bottom of the touchscreen.

To mute the volume, press the left scroll button. Press again to unmute.

NOTE: Pressing the left scroll button during a phone call mutes both the sound and your microphone.

NOTE: If you're playing media and you receive a phone call, or the navigation system is speaking directions, the volume of what you are listening to is temporarily muted.

Searching Media Content



Touch Media Player's magnifying glass icon to search for a particular song, album, artist, podcast, or station. Select a filter to narrow the scope of your search, or leave it at its default setting to include top results from all available source content.

NOTE: Use voice commands to search hands-free (see [Using Voice Commands on page 175](#)).

FM Radio



If available in your market region and location, Media Player provides FM radio stations that you can select from the Radio source. Touch the next or previous arrows to move from one frequency to the



next (or previous). Or touch **Direct Tune** to enter a specific frequency.

For easy access to radio stations you listen to frequently, mark it as a favorite so it's readily available in your Favorites list (see [Favorites and Recents on page 168](#)).

DAB Radio Services



If equipped, you can select DAB radio from the Radio source of Media Player. Select a DAB radio station by browsing the list of stations available in your area, or touch the next or previous buttons.

Internet Radio and Music Streaming Services (if equipped)

If equipped with premium connectivity, internet radio and music streaming services are available over a data connection. To listen, touch the Media Player icon and choose the streaming service you want to listen to.

You can use your Tesla account or you can sign in with your own account by scrolling to the bottom of the streaming service window and entering your account credentials.

Browse through the available categories and/or stations, then touch what you want to play. When browsing through a large category such as genres, you may need to drag the window upward to enlarge it and view more available options. When you choose an option that displays multiple results on a new window, touch **BACK** at the top of the window to return to the main browse page.

You can also use voice commands to play a specific song, artist, or album from an Internet radio service (see [Using Voice Commands on page 175](#)).

When listening to internet radio or a music streaming service, the options available on Miniplayer can vary depending on what you are listening to:

- Touch the next (or previous) arrows to play the next (and in some cases previous) available station, episode, or track being provided by the Internet radio service.
- Like or dislike a song or podcast. When you like a song, for example, the radio station plays similar songs. When you dislike a song, the song won't be played again.
- Touch the **DJ** icon (if available) to include commentary for the content you are streaming. DJ commentary includes music history and behind-the-scenes stories.

NOTE: When playing a podcast (if available), you can rewind or fast forward to any location in the show. On the Miniplayer, drag the slider to the desired location or touch the rewind/fast forward icons to move back or forward 15 seconds at a time.

Caraoke

In addition to various streaming services, your vehicle is equipped with Caraoke. To access Caraoke, touch the Music icon near the bottom of the touchscreen. You can browse through various songs and select the song you want to sing. Touch the microphone icon to enable or disable the song's main vocals. Disabling the microphone leaves only the song's instrumentals and background vocals. Touch the lyrics icon (located next to the microphone icon) to enable or disable the song's lyrics.

NOTE: Depending on vehicle configuration and market region, Caraoke may not be available on your vehicle.



WARNING: Never read Caraoke lyrics while driving. You must always pay attention to the road and traffic conditions. When driving, the Caraoke lyrics are intended only for use by a passenger.

Favorites and Recents

For most source content, your favorites display at the top of Media Player's expanded view for easy access.



	<p>To add a currently playing station, podcast, or audio file to your Favorites list, touch the Favorites icon on Miniplayer.</p>
	<p>To remove an item as a favorite, touch the highlighted Favorites icon on Miniplayer. You can also remove multiple favorites by expanding Miniplayer one level to show all favorites for the applicable type of source content. Then press and hold any favorite. An X appears on all favorites and you can then touch the X to remove it from your Favorites list.</p>

To see selections that you have recently played, scroll up one level from Miniplayer and touch **Recent**. Your recently played selections are updated continuously so you don't need to remove them.

NOTE: Selections you play on FM radio are not included in your Recent list.

Playing Media from Devices

	<p>You can play audio files from a Bluetooth-connected device (like a phone) or a USB-connected flash drive. When you connect a Bluetooth-capable device, the name of the device displays when you choose the Phone source. When you connect a USB flash drive, Media Player displays the driver's source content.</p>
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To play the next song in a selected playlist or album, touch the previous or next arrows on Miniplayer. You can also shuffle tracks in a playlist or repeat a playlist or track using the shuffle/repeat icons (if available).

USB Connected Flash Drives

Connect a flash drive to a front USB connection (see [Interior Storage and Electronics on page 25](#)). Touch **Media Player** > **USB**, and then touch the name of the folder that contains the song you want to play. After you display the contents of a folder on the USB connected flash drive, you can touch any song in the list to play it. Or use the previous and next arrows in Miniplayer to scroll through your songs.

NOTE: To play media from a USB connection, Model 3 recognizes flash drives only. You can play media from other types of devices (such as an iPod) by connecting the device using Bluetooth.

NOTE: Media Player supports USB flash drives with FAT32 formatting (NTFS and exFAT are not currently supported).

NOTE: Use a USB connection located at the front of the center console. The USB connections at the rear of the console are for charging only.

Bluetooth Connected Devices

If you have a Bluetooth-capable device such as a phone that is paired and connected to Model 3 (see [Pairing a Bluetooth Phone on page 171](#)), you can play audio files stored on it and you can stream music from it. Choose Media Player's **Phone** source, then touch the name of your Bluetooth-connected device, and then touch **CONNECT**.

Your Bluetooth device begins playing the audio file that is currently active on your device, and Media Player displays the Miniplayer view. If no audio file is playing on your device, use your device to choose the audio file you want to listen to. When the chosen file begins to play, you can then use Miniplayer's next and previous icons to play other tracks.

NOTE: To play media from a Bluetooth-connected device, ensure that access to the device's media is turned on (see [Pairing a Bluetooth Phone on page 171](#)).



Audio Settings



Press the settings icon at the bottom corner of Media Player to access audio settings for tone and balance. Other settings may be available based on your vehicle's manufacture date, features, and market region. For example, you can turn immersive sound on or off, but if equipped with the premium package, you can choose between Standard, High, and Off.

To adjust any of the five frequency bands (Bass, Bass/Mid, Mid, Mid/Treble, and Treble) drag the corresponding slider up or down the decibel (dB) bar.

To adjust balance, touch **Balance** and drag the center circle of the cross bars to the location in Model 3 where you want to focus the sound.



Bluetooth® Compatibility

You can use your Bluetooth-capable phone hands-free in Model 3 provided your phone is within operating range. Although Bluetooth typically supports wireless communication over distances of up to approximately 9 meters, performance can vary based on the phone you are using.

Before using your phone with Model 3, you must pair it. Pairing sets up Model 3 to work with your Bluetooth-capable phone (see [Pairing a Bluetooth Phone on page 171](#)).

NOTE: Authenticating your phone to use as a Model 3 key (see [Keys on page 11](#)) does not also allow you to use the phone hands-free, play media from it, etc. You must also pair it as described below.

You can pair up to ten Bluetooth phones. Model 3 always automatically connects to the last phone that was used (provided it is within range). If you want to connect to a different phone, see [Connecting to a Paired Phone on page 172](#).

NOTE: On many phones, Bluetooth turns off if the phone's battery is low.

NOTE: In addition to phones, you can also pair Bluetooth-enabled devices with Model 3. For example, you can pair an iPod Touch or an iPad or Android tablet to stream music.

Pairing a Bluetooth Phone

Pairing allows you to use your Bluetooth-capable phone hands-free to make and receive phone calls, access your contact list, recent calls, etc. It also allows you to play media files from your phone. Once a phone is paired, Model 3 can connect to it whenever the phone is within range.

To pair a phone, follow these steps while sitting inside Model 3:

1. Ensure both the touchscreen and the phone are powered on.
2. On your phone, enable Bluetooth and ensure it is discoverable.

NOTE: On some phones, this may require you to go to Bluetooth Settings for the remainder of the procedure.

3. Touch the Bluetooth icon on the top of the touchscreen.
4. On the touchscreen, touch **Add New Device** > **Start Search**. The touchscreen displays a list of all available Bluetooth devices within operating distance.
5. On the touchscreen, touch the phone with which you want to pair. Within a few seconds, the touchscreen displays a randomly generated number, and your phone should display the same number.
6. Check that the number displayed on your phone matches the number displayed on the touchscreen. Then, on your phone, confirm that you want to pair.
7. If prompted on your phone, specify whether you want to allow Model 3 to access your contacts and media files.

When paired, Model 3 automatically connects to the phone, and the touchscreen displays the Bluetooth symbol next to the phone's name to indicate that the connection is active.

Importing Contacts and Recent Calls

Once paired, you can use the Bluetooth settings screen (touch the Bluetooth icon on the touchscreen's top status bar) to specify whether you want to allow access to your phone's contacts and recent calls. If access is turned on, you can use the phone app to display, and make calls to, people in your list of contacts and on your recent calls lists (see [Using the Phone App on page 172](#)).

NOTE: Before contacts can be imported, you may need to either set your phone to allow syncing, or respond to a popup on your phone to confirm that you want to sync contacts. This varies depending on the type of phone you are using. For details, refer to the documentation provided with your phone.

NOTE: You can turn access to your contacts and recent calls on or off at any time by displaying the Bluetooth settings screen, choosing the phone, and then changing the setting associated with contacts and recent calls.



Unpairing a Bluetooth Phone

If you want to disconnect your phone and use it again later, simply touch **Disconnect** on the Bluetooth settings screen. If you do not want to use your phone with Model 3 again, touch **Forget This Device**. Once you forget a device, you need to pair it again if you want to use it with Model 3 (see [Pairing a Bluetooth Phone on page 171](#)).

NOTE: Your phone automatically disconnects whenever you leave Model 3.

NOTE: Unpairing the phone has no effect on using the phone as a key. To forget an authenticated phone, see [Keys on page 11](#).

Connecting to a Paired Phone

Model 3 automatically connects with the last phone to which it was connected, provided it is within operating range and has Bluetooth turned on. If the last phone is not within range, it attempts to connect with the next phone that it has been paired with.

To connect to a different phone, touch the Bluetooth icon on the top of the touchscreen. The Bluetooth window displays a list of paired phones. Choose the phone you want to connect to, then touch **Connect**. If the phone you want to connect to is not listed, you must pair the phone. See [Pairing a Bluetooth Phone on page 171](#).

When connected, the Model 3 touchscreen displays the Bluetooth symbol next to the phone name to show that the connection is active.

Using the Phone App

When your phone is connected to Model 3 using Bluetooth, and you have allowed access to your phone's contacts (see [Importing Contacts and Recent Calls on page 171](#)), you can use the phone app to display and make a hands-free call to anyone listed on your phone:

- **Recent Calls** list. The list displays calls in chronological order with the most recent call listed first. You can display all calls or just those that are missed, incoming, or outgoing.

- **Contacts:** Contacts are listed in alphabetical order and can be sorted by first name or last name. You can also choose a letter on the right side of the list to quickly scroll to the names that begin with the selected character. When you touch a name on your contacts list, the contact's available number(s) displays on the right pane, along with other available information (such as address). Touch the contact's number to make a call.

You can also view, send, and receive text messages on the touchscreen. Instead of typing a text message, touch the microphone to enter text using your voice.



WARNING: To minimize distraction and ensure the safety of vehicle occupants as well as other road users, do not view or send text messages when the vehicle is in motion. Pay attention to road and traffic conditions at all times when driving.

Making a Phone Call

You can make a phone call by:

- Speaking a voice command (see [Using Voice Commands on page 175](#)).
- Choosing a number from your contact or recent calls list in the phone app.
- Using the Model 3 on-screen dialer in the phone app.

NOTE: If it is safe and legal to do so, you can also initiate a call by dialing the number or selecting the contact directly from your phone.

NOTE: You can also make a phone call by touching a pin on the map and choosing the phone number (if available) on the popup window.



Receiving a Phone Call

When your phone receives an incoming call, the touchscreen displays the caller's number or name (if the caller is in your phone's contact list and Model 3 has access to your contacts).

Touch one of the options on the touchscreen to **Answer** or **Ignore** the call.

NOTE: Depending on the phone you are using and what speakers you used for your most recent call, your phone may prompt you to choose which speakers you want to use for the incoming call.



WARNING: Stay focused on the road at all times while driving. Using or programming a phone while driving, even with Bluetooth enabled, can result in serious injury or death.



WARNING: Follow all applicable laws regarding the use of phones while driving, including, but not limited to, laws that prohibit texting and require hands-free operation at all times.



Overview

The Calendar app allows you to view scheduled events from your phone's (iPhone® or Android™) calendar for the current and next day. The Calendar is conveniently integrated with navigation and the Phone app so you can navigate to, or dial into, your next meeting. The Calendar app requires that:

- The Tesla mobile app is running, you are logged in, and the Calendar Sync setting is enabled. The mobile app can then periodically (and automatically) send calendar data from your phone to Model 3.

NOTE: To ensure you have access to all features of the Calendar app, it is recommended that you use the most recent version of the mobile app.

- Your phone is connected to Model 3 via Bluetooth (for privacy reasons, calendar data displays only from a connected phone).
- Mobile access to Model 3 is turned on (touch **Controls** > **Safety & Security** > **Allow Mobile Access**).
- Both your phone and Model 3 have good connectivity.

When you enter Model 3, the touchscreen can display a reminder of the day's events. You can customize if and when your calendar events are displayed by touching the settings icon located in the top left corner of the Calendar app, then choosing from one of the options available for the **Show Calendar Upon Entry** setting.

If a calendar event includes an address, a navigation arrow displays to indicate that you can touch the address to navigate to the event's location. When an event on your Calendar takes place within the next hour and has a uniquely specified address, the touchscreen notifies you if there is a better route due to traffic, even when you're not currently using navigation.

If an event has a uniquely specified address and takes place within two hours of you entering your vehicle and preparing to drive, Model 3 will automatically route you to the event's address (see [Automatic Navigation on page 163](#)).

Touch an event's information icon to display all notes associated with the event. If the notes include one or more phone numbers, the information icon shows a phone icon and the calendar displays the first phone number found. Touch to initiate a phone call. You can also initiate a phone call by touching any number in an event's notes popup window (this is especially useful for conference calls). If the notes contain a web link, you can touch the link to open it in the web browser (if equipped).

If events are displayed from multiple calendars, touch the list icon in the top right corner to filter the list of events to show only those from one or more specified calendars.



Voice commands are designed to understand natural requests. You can use voice commands to:

- Call a contact.
- Navigate to a location.
- Listen to Internet music.
- Control various aspects of Model 3.



To initiate a voice command, tap the microphone button on the touchscreen. When you hear the tone, speak your command. As you speak, the touchscreen displays an interpretation of your command. It also displays tips to remind you of the type of commands you can speak. When you finish speaking the command, tap the voice button again or simply wait.

NOTE: Voice commands may be spoken in English, French, German, Italian, Dutch, Spanish, Norwegian, Danish, or Swedish.

NOTE: You can also initiate a voice command by pressing the right scroll button.

- To call a contact on your Bluetooth-connected phone, say “Call” or “Dial”, followed by the contact’s first and/or last name(s). For example, “Call Joe” or “Call Joe Smith”.
- To search for, or navigate to, a location, say “Where is”, “Drive to”, or “Navigate to”, followed by an address, business name, business category, or landmark. For example, “Where is Stanford University?”, “Drive to Tesla in Palo Alto”, or “Navigate to Starbucks on Homestead in Cupertino”. If you have defined a navigation address for your home or work locations, you can use a voice command to navigate there by saying “Navigate home” or “Navigate to work”.
- To listen to an Internet music service, say “Listen to” or “Play”, followed by the name of the song, album, artist, or combination. To improve voice recognition accuracy, provide multiple cues in your command,

such as artist plus song (for example, “Listen to Yellow Brick Road” or “Play Yellow Brick Road by Elton John”).

- Control various aspects of Model 3 by speaking statements or commands. For example, “Speed up the wipers”, “The screen is too bright”, “Turn on the driver’s seat heater”, “I’m cold”.

NOTE: Tesla is continuously improving the ability of Model 3 to recognize voice commands. To support these ongoing quality improvements, Tesla captures short voice recordings anonymously. To protect your privacy, these short recordings are not associated with your personal information or with your vehicle’s identification number. Tesla assures that it is not possible to search any system for a recording associated with a specific customer or vehicle.



About the Security System PIN to Drive

If Model 3 does not detect an authenticated phone, key fob, or key card and a locked door or trunk is opened, an alarm sounds and the headlights and turn signals flash. To deactivate the alarm, press any button on the mobile app or tap your key card or key fob against the card reader located just below the Autopilot camera on the driver's side door pillar.

To manually enable or disable the alarm system, touch **Controls > Safety & Security > Security Alarm**. When enabled, Model 3 activates its alarm one minute after you exit, the doors lock, and a recognized key is no longer detected.

If your Model 3 is equipped with the security package, a battery-backed siren sounds in situations where a locked door or trunk is opened and Model 3 does not detect a key nearby. If you also want this siren to sound in situations where Model 3 detects motion inside the cabin, or is moved or tilted (for example, with a tow truck or jack), turn on the **Tilt/Intrusion** setting (**Controls > Safety & Security > Tilt/Intrusion**).

NOTE: If you plan to leave something that moves inside your locked Model 3, remember to turn off **Tilt/Intrusion** (if equipped). If this setting is on, any motion detected inside Model 3 activates the intrusion alarm.

NOTE: Note: If Model 3 is in Sentry Mode (see [Sentry Mode on page 176](#)), you must disable Sentry Mode before you can disable the Security alarm or the Tilt/Intrusion alarm.

NOTE: The **Security Alarm** must be on to enable **Tilt/Intrusion**.

NOTE: The Intrusion Sensor automatically disables in situations where the climate control system is operating when you have left your vehicle (see [Keep Climate On, Dog Mode, and Camp Mode on page 158](#)). To override, you can manually turn the Intrusion Sensor on again after choosing Keep Climate On, Dog, or Camp Mode (touch **Controls > Safety & Security > Tilt/Intrusion**).

To increase security, you can prevent Model 3 from being driven until a 4-digit PIN (Personal Identification Number) is entered. To enable this setting, touch **Controls > Safety & Security > PIN to Drive** and follow the on-screen prompts to create a driving PIN.

NOTE: When enabled, in addition to entering the 4-digit driving PIN to drive, you must also use it to enter Valet mode for the first time and create the 4-digit valet PIN that you can use to enter and exit Valet mode. When in Valet mode, Model 3 can be driven without the need for the valet to enter a driving PIN. In addition, the **PIN to Drive** setting is disabled whenever Valet mode is active.

If you forget your driving PIN, or to disable **PIN to Drive**, return to this setting, touch the link to enter your Tesla login credentials, then follow the on-screen prompts.

NOTE: In the unlikely event that your touchscreen is unresponsive, you may be unable to enter the PIN. In this case, first try to restart the touchscreen (see [Restarting the Touchscreen on page 64](#)). If the touchscreen is still unresponsive, you can still bypass PIN to Drive by turning on Keyless Driving in the Tesla mobile app.

Sentry Mode

In Sentry Mode, cameras and sensors remain powered on and ready to record suspicious activity whenever Model 3 is locked and in Park.

To turn Sentry Mode on or off, touch the Sentry Mode icon at the top of your touchscreen. Alternatively, you can use voice commands, the mobile app, or you can touch **Controls > Safety & Security > Sentry Mode**. To activate Sentry Mode using voice commands, say "Keep Tesla safe", "Keep my car safe", "Sentry on", or "Enable Sentry" (for details using voice commands, see [Using Voice Commands on page 175](#)).

NOTE: Sentry Mode requires the Battery to be at least 20% charged. If the Battery falls below 20%, Sentry Mode turns off and the mobile app sends you a notification.

NOTE: Power consumption may increase when Sentry Mode is active.



NOTE: Software updates cannot be installed when Sentry Mode is activated.



WARNING: Do not rely on Sentry Mode to protect Model 3 from all possible security threats. While it may help deter some threats, no security system can prevent all attacks.

Standby, Alert, and Alarm States

When in Sentry Mode, Model 3 may go through three states depending on its surroundings—Standby, Alert, and Alarm:

- **Standby** - Your vehicle automatically enters the Standby state when you activate Sentry Mode. In the Standby state, the cameras constantly monitor the area surrounding Model 3 for possible security threats.
- **Alert** - If Sentry Mode detects a threat, such as someone leaning on Model 3, Sentry Mode switches to the Alert state. The headlights flash and the touchscreen displays a message indicating that the cameras are recording the event.
- **Alarm** - For major threats, such as someone breaking a window, Sentry Mode triggers the Alarm state. In the Alarm state, the security alarm activates and the audio system generates a loud and unexpected sound. Sentry mode sends an alert to the mobile app on phones that are paired to Model 3 to inform you that the alarm state is triggered. After 30 seconds, Sentry Mode returns to the Standby state.

When in the Alert or Alarm state, Sentry Mode saves the most recent ten minutes of footage prior to the event that triggered either state, provided that a properly configured USB flash drive is inserted into one of the USB ports (see [USB Flash Drive Requirements for Videos and Recording on page 177](#)).

NOTE: When the Alarm state is triggered, the most recent six seconds prior to the security event may be sent to Tesla for temporary backup for approximately 72 hours. You can enable or disable the collection of this video at any time by touching **Controls > Safety & Security > Data Sharing**.

NOTE: Sentry Mode can operate without a flash drive installed. If your vehicle enters the Alarm state, the security alarm activates and Sentry Mode sends an alert to your phone. However, video recordings of the event are not available.

Location-Based Settings

You can customize Sentry Mode to automatically activate at specific locations where you park Model 3:

- **Exclude Home** - When on, Sentry Mode does not automatically activate at the location you set as Home in your Favorites list (see [Recent, Favorite, Home and Work Destinations on page 165](#)), but activates at any other parking location.

NOTE: To set up your Home location, touch **Navigate** and hold down **Home**, then enter your address. Touch **Save as Home**.

- **Exclude Work** - When on, Sentry Mode does not automatically activate at the location you set as Work in your Favorites list, but activates at any other parking location. Set your Work location the same way you set up your Home location, as previously described.
- **Exclude Favorites** - When on, Sentry Mode does not automatically activate at any location in your Favorites list, but activates at any other parking location.

To recognize a location listed as Home, Work, or a Favorite, Sentry Mode requires that Model 3 is parked within 10 meters of the location listed as a Home, Work, or Favorite.

USB Flash Drive Requirements for Videos and Recording

To store video from your vehicle's cameras, follow these requirements and guidelines for using flash drives:

- The flash drive must have a **sustained** write speed of at least 4 MB/s. A sustained write speed is different from the peak write speed. Check the product details of your flash drive for more information.



- The flash drive must be USB 2.0 compatible. If using a USB 3.0 flash drive, it must be able to support USB 2.0.
- Use a dedicated flash drive exclusively for saving Sentry Mode recordings.
- The flash drive must be properly formatted (see [Formatting the USB Flash Drive on page 178](#)).
- Use a flash drive with as much available storage as possible. Video footage can occupy a large amount of space. Tesla recommends using a flash drive with at least 32 GB of storage. Some personal computer operating systems may be unable to format flash drives larger than 32 GB as FAT 32. Consider using a third party application to format flash drives larger than 32 GB.

Although not a comprehensive list, Tesla has tested the following flash drives and confirmed that they meet the requirements for using Dashcam and Sentry Mode:

- SanDisk Ultra Fit USB 3.1 Flash Drive
- Samsung MUF-64AB/AM FIT Plus - 200MB/s USB 3.1 Flash Drive

Formatting the USB Flash Drive

To correctly save and retrieve video footage, Model 3 requires the USB flash drive to be formatted as FAT 32 (for Windows), MS-DOS FAT (for Mac), ext3, or ext4. NTFS and exFAT are not currently supported. In addition, the USB flash drive must contain a base-level folder called “TeslaCam” (without quotation marks). Follow the steps below to prepare a USB flash drive.

For MacOS:

1. Insert the USB flash drive into your personal computer.
2. Navigate to **Utilities > Disk Utility** (or conduct a Spotlight Search).
3. Select your flash drive in the left menu.
4. Navigate to **Erase** in the top menu ribbon.
5. In the pop-up menu, select the correct format (MS-DOS FAT) and click **Erase**.

NOTE: Selecting **Erase** removes all existing content from your flash drive. If you have content that you want to keep, you must move it to a different device before erasing.

6. Once the flash drive is successfully erased, navigate to **Finder** and select your USB flash drive from the left menu. The flash drive should not contain any files.
7. Right-click in the empty space of the flash drive and select **New Folder**. A folder appears in your flash drive space.
8. Right-click on the folder, select **Rename**, and name the folder to “**TeslaCam**” (without quotation marks). Click “Save”. This folder will contain all recent and saved clips from Sentry Mode and Dashcam.
9. Properly eject the USB flash drive.

For Windows:

1. Insert the USB flash drive into your personal computer.
2. Navigate to **File Explorer**.
3. Right-click on your USB flash drive and select “Format...”.
4. In the pop-up menu, under the File System section, select “FAT 32”.

NOTE: You can also name your USB flash drive (under Volume Label) for easier recognition.

5. Check the **Quick format** box and click **Start**.
6. Go back to File Explorer, click on your flash drive, and right-click to create a folder, or select **New Folder** in the top menu.
7. Name the folder “**TeslaCam**” (without quotation marks) and click **Save**. This folder will contain all recent and saved clips from Sentry Mode and Dashcam.
8. Properly eject the USB flash drive.

Once you have formatted the USB flash drive and created the **TeslaCam** folder, insert it into one of the front USB ports in Model 3. Do not use the rear USB ports—they are for charging only. It may take Model 3 up to 15 seconds to recognize the flash drive. When recognized, icons for Dashcam and Sentry Mode appear at the top of your touchscreen (note that you



may need to enable Sentry Mode by touching **Controls > Safety & Security > Sentry Mode**). Model 3 is ready to record video.

Retrieving Footage

To retrieve video footage from the USB flash drive, remove the flash drive from the front USB port and use a personal computer or other device to access the files. Navigate to the **TeslaCam** folder.

Within the **TeslaCam** folder, there are three sub-folders:

- **Recent Clips** - The footage in Recent Clips continuously loops in 60-minute cycles whenever the cameras are activated. Therefore, footage is constantly overwritten every hour unless you save it. When an event is recorded, one video is recorded for each of the front, rear, left, and right cameras.
- **Saved Clips** - Contains all recordings that you have manually saved using [Dashcam on page 92](#).
- **Sentry Clips** - Contains all footage from Sentry Mode events which have been automatically saved when an Alert or Alarm state is triggered. The last 10 minutes of an event's footage is saved and labeled with a unique timestamp.

NOTE: As the USB flash drive runs out of available space, the oldest footage in Sentry Clips is deleted to make room for new footage. Once deleted, you will be unable to retrieve them. When the flash drive is full, Sentry Mode and Dashcam can no longer save video footage. To prevent the flash drive from getting full, you must regularly move saved videos to another device, and delete them from the flash drive.

You can also review Dashcam and Sentry Mode video recordings on your vehicle's touchscreen by touching the Dashcam icon and selecting "Launch Viewer". Each video, organized by timestamp, provides footage of a saved event from each camera. Touch the thumbnail of any camera to enlarge the video. Pause, rewind, fast forward, and delete video footage as needed. Your vehicle must be in Park to view Dashcam and Sentry Mode footage on the touchscreen.

NOTE: Dashcam recording is paused while the viewer is open.

NOTE: You are responsible for complying with all local laws, regulations, and property restrictions regarding video recordings.

NOTE: The cameras do not record audio.

Save Clips on Honk

Once a properly formatted USB flash drive is inserted in one of the vehicle's front USB ports, you can choose to save Dashcam clips while driving when you honk the horn on your steering wheel. Navigate to **Controls > Safety and Security > Save Clips on Honk > ON** to enable. The most recent ten minutes of footage is saved. You can also save Dashcam footage by touching the Dashcam icon at the top of the touchscreen.



About HomeLink

If your vehicle is equipped with the HomeLink® Universal Transceiver, you can operate up to three Radio Frequency (RF) devices, including garage doors, gates, lights, and security systems.

NOTE: Depending on date of manufacture, market region, and options selected at time of purchase, some vehicles are not equipped with a HomeLink Universal Transceiver.



WARNING: Do not use the HomeLink Universal Transceiver with a device that does not have safety stop and reverse features. Using a device without these safety features increases the risk of injury or death.

Supported Modes

HomeLink supports three different transmit modes, which is how your vehicle and the RF device communicate. Selecting a transmit mode is determined by your RF device's compatibility:

- **Standard Mode:** Use Standard Mode if your RF device is equipped with a remote and the remote must be used to operate the device (for example, a remote-controlled garage door). This is the most common mode used with devices.
- **D-Mode or UR-Mode:** Use D-Mode or UR-Mode if the RF device does not have a remote, and the receiver has a "Learn" button (may also be called "Program" or "Smart"). D-Mode and UR-Mode function similarly because the vehicle directly communicates with the device's receiver, so you don't have to pair a remote.

NOTE: D-Mode is used mainly in North America while UR-Mode is popular in Europe, the Middle East, and Asia. To determine with which mode your device is compatible, contact HomeLink (www.homelink.com or call 1-800-355-3515).

Each of your devices can be set to a different mode. For example, your garage door can be set to Standard Mode, your front gate can be set to D-Mode, etc. To change a transmit mode, touch the HomeLink icon on the

touchscreen's status bar and select the device you want to change. Then, select **Program** and choose the desired mode for your device. Confirm by touching **Set Mode** and follow the onscreen instructions.

For older vehicles, changing the mode for one device changes the mode for all devices, so be careful when changing transmit modes. Devices not compatible with your selected mode may not work. Touch the HomeLink icon on the touchscreen's status bar and touch **Change Transmit Mode**.

NOTE: Check the product information for your garage door, gate, light, etc. to determine which mode is compatible with your device.

Programming HomeLink

To program HomeLink® (if equipped):

1. Park Model 3 so that the front bumper is in front of the garage door, gate, or light you want to program.



CAUTION: Your device might open or close during programming. Before programming, make sure that the device is clear of any people or objects.

2. Get the device's remote control and ensure it has a healthy battery. Tesla recommends replacing the battery in the device's remote control before Programming HomeLink.
3. Touch the HomeLink icon at the top of the touchscreen.
4. Touch **Create HomeLink**, then select which mode you wish to use: Standard, D-Mode, or UR-Mode.
5. Use the touchscreen to enter a name for your device and touch **Enter** or **Create HomeLink**.
6. Touch **Start** then follow the onscreen instructions.



NOTE: If you see a screen called “Train the receiver” while programming the device, remember that this is a time-sensitive step. After pressing the Learn/Program/Smart button on the device’s remote, you only have approximately 30 seconds to return to your vehicle, press **Continue**, and then press the trained HomeLink device name twice. Consider having an assistant help with this step.

7. Once your device is programmed, touch **Save** to complete the HomeLink programming routine.

8. Ensure HomeLink works as expected. In some cases the programming process may require multiple attempts before succeeding.

Once programmed, you can operate the device by touching its corresponding HomeLink icon on the touchscreen’s status bar. HomeLink remembers the location of your programmed devices. When you approach a known location, the HomeLink control on the touchscreen automatically drops down. When you drive away, it disappears.

NOTE: For additional assistance or compatibility questions, contact HomeLink (www.homelink.com or call 1-800-355-3515).

Auto Opening and Closing

To operate a HomeLink device without touching the touchscreen, you can automate the device to open as you approach, and close as you drive away:

1. Touch the HomeLink icon at the top of the touchscreen and choose the device you want to automate.
2. Select the **Auto-open when arriving** checkbox if you want the device to open as you approach.
3. Touch the arrows to specify the distance you want your vehicle to be from the device before it opens.
4. Select the **Auto-close when leaving** checkbox if you want the device to close as you drive away.

As you approach (or drive away from) a device that is set to operate automatically, the HomeLink status icon displays a count-down message to let you know when the device will automatically open or close. In situations where you don’t want the device to automatically open or close, touch **Skip Auto-Open** or **Skip Auto-Close** at any time during the count-down message.

Resetting the Location of the HomeLink Device

If you experience situations in which you sometimes drive up to your HomeLink device and it doesn’t open, or the HomeLink icon on the touchscreen’s status bar does not display the dropdown when you approach the device, you may need to reset the device’s location. To do so, park as close as possible to the HomeLink device (garage door, gate, etc.) and display the HomeLink settings page by touching the HomeLink icon at the top of the touchscreen. Touch the name of the device you want to reset, then **Reset Location**.

Deleting a Device

To delete a HomeLink device, touch the HomeLink icon at the top of the touchscreen. Touch the name of the device you want to delete, then touch **Delete**.

NOTE: You can also perform a factory reset to erase your HomeLink settings, along with all other personal data (saved addresses, music favorites, imported contacts, etc.). See [Erasing Personal Data on page 153](#).

NOTE: For security reasons, delete your HomeLink devices if you sell your Model 3.

Troubleshooting HomeLink

Standard Mode

In Standard Mode, Model 3 records the signal from the remote of your RF device. The touchscreen instructs you to stand in front of the vehicle, point the remote at the front bumper, and press and hold the button until the headlights flash. When the headlights flash, Model 3 has learned the remote and you



can touch **Continue** on the touchscreen. If the headlights do not flash, refer to the following guidelines:

- Check the batteries in the remote. It is a good idea to replace the batteries before you start programming.
- While standing in front of your vehicle, press and hold the button on your device's remote, with the remote approximately 5 cm in front of the Tesla emblem. In some cases you must hold the button on the remote for up to three minutes.
- Certain garage door remotes may require multiple short remote presses (approximately 1 second each press) instead of one long duration press.

D-Mode and UR-Mode

In D Mode and UR-Mode, the device's receiver learns Model 3. The touchscreen instructs you to press the "Learn" button (may also be called "Program" or "Smart") on the device's receiver. If this does not work, refer to the following guidelines:

- Park Model 3 with its bumper as close as possible to the garage door, gate, etc. that you are trying to program.
- Make sure you are pressing the receiver's Learn/Program/Smart button. For instructions on how to put the receiver into learning mode, refer to the product details provided with your RF device that you are trying to program.
- If you see a screen called "Train the receiver" while programming the device, remember that this is a time-sensitive step. After pressing the Learn/Program/Smart button on the device's remote or receiver, you only have approximately 30 seconds to return to your vehicle, press **Continue**, then press the trained HomeLink device name twice. Consider having someone assist you with this step.
- Most devices stay in learning mode for only three to five minutes. Immediately after pressing the device's Learn/Program/Smart button, follow the instructions displayed on the vehicle's touchscreen.

For additional assistance or compatibility questions, contact HomeLink (www.homelink.com or call 1-800-355-3515).



Wi-Fi is available as a data connection method and is often faster than cellular data networks. Connecting to Wi-Fi is especially useful in areas with limited or no cellular connectivity. To ensure fast, reliable delivery of software and map updates, Tesla recommends leaving your vehicle connected to a Wi-Fi network whenever possible (for example, if parked in your garage overnight).

To connect to a Wi-Fi network:

1. Touch the cellular icon (usually **LTE** or **3G**) on the top corner of your touchscreen. Model 3 will start scanning and display the detected Wi-Fi networks that are within range.
2. Select the Wi-Fi network you want to use, enter the password (if necessary), then touch **Confirm**.
3. Your vehicle connects to the Wi-Fi network and will automatically connect to it whenever the network is within range.

You can also connect to a hidden network that isn't shown on the list of scanned networks. Just touch **Wi-Fi Settings**, enter the name of the network in the resulting dialog box, select the security setting, then touch **Add Network**.

NOTE: If more than one previously connected network is within range, Model 3 connects to the one most recently used.

NOTE: You can also use a mobile hotspot or your phone's Internet connection via Wi-Fi tethering (subject to fees and restrictions of your mobile carrier).

NOTE: At Tesla Service Centers, Model 3 automatically connects to the Tesla Service Wi-Fi network.



Loading New Software

Tesla updates your vehicle's software wirelessly, constantly providing new features. Tesla recommends you install software updates as soon as they are available on your vehicle. To ensure the fastest and most reliable delivery of software updates, leave Wi-Fi turned on and connected whenever possible. In most cases, your vehicle must be connected to Wi-Fi to start an update (see [Connecting to Wi-Fi on page 183](#)).

NOTE: On an as-needed basis, Tesla also sends software updates using a cellular connection.

NOTE: Software updates are not performed when Keep Climate On, Dog Mode, or Camp Mode is active.



WARNING: Do not attempt to use the vehicle while the software is being updated. Vehicle functions, including some safety systems, may be limited or disabled when a software update is in progress and you could damage the vehicle.

When a software update is available, a yellow clock icon appears at the top of the touchscreen. There are three ways you can install software updates:

- Touch the yellow clock icon to display the scheduling window, which prompts you to select a time to install the update (**SET FOR THIS TIME**) or install it now (**INSTALL NOW**). Once scheduled, the yellow clock icon changes to a white clock icon until the update begins. At any time before the update begins, you can touch this clock icon to reschedule the update.
- Go to **Controls > Software** to determine if an update is available for your vehicle. If available, touch **Software Update Available** to navigate to the scheduling window, as mentioned above.
- Start updates using the Tesla mobile app.

NOTE: Some software updates can take up to three hours to complete. Model 3 must be in Park while the software is being updated. To ensure the fastest and most reliable delivery of software updates, leave the Wi-Fi turned on and connected whenever possible (see [Connecting to Wi-Fi on page 183](#)).

The yellow clock icon becomes a green download icon when a software update is downloading. If a yellow download icon displays, a software update is available but your vehicle is not connected to Wi-Fi. Connect your vehicle to Wi-Fi to start the download.

Software Update Preferences

You can choose how quickly and often you receive software updates. To change your preference, navigate to **Controls > Software > Software Update Preferences** and choose either of these options:

- **STANDARD:** Receive software updates using the normal rollout timeframe for your region and vehicle configuration. When a software release is made available it has generally been running on other customer vehicles for a period of time.
- **ADVANCED:** Receive the latest software updates for your region and vehicle configuration as soon as they are available. Tesla determines how, when, and where to send updates to vehicles based on various factors unique to each release. Keep in mind that although you receive updates as soon as they are available for your specific vehicle, you may not be in the first Tesla group of Tesla owners to receive the update. Choosing Advanced does not enroll your vehicle in Tesla's early access program.

NOTE: Tesla does not update software upon request for those wanting to receive the latest features and improvements. Selecting **ADVANCED** and consistently connecting to Wi-Fi (see [Connecting to Wi-Fi on page 183](#)) is the best way to receive the latest software updates.

NOTE: The software update window persists until you install the update. You must install a software update as soon it becomes available. Any harm resulting from failure to install a software update is not covered by the vehicle's warranty. Failure or refusal to install updates can cause some vehicle features to become inaccessible, digital media devices to become incompatible, and can limit Tesla's ability to diagnose and service your vehicle.

NOTE: Reverting to a previous software version is not possible.



If the touchscreen displays a message indicating that a software update was not successfully completed, contact Tesla.

Charging

If Model 3 is charging when the software update begins, charging stops. Charging resumes automatically when the software update is complete. If you are driving Model 3 at the scheduled update time, the update is canceled and must be rescheduled.

Viewing Release Notes

When a software update is complete, read the release notes displayed on the touchscreen to learn about changes or new features. To display release notes about the current version of your vehicle's software at any time, touch the Tesla "T" at the top center of the touchscreen, then touch **Release Notes**. You can also view the release notes by touching **Controls > Software**.

Tesla strongly recommends reading all release notes. They may contain important safety information or operating instructions for your Model 3.



The Tesla mobile app allows you to communicate with Model 3 remotely using your iPhone® or Android™ phone.

To use the mobile app

To set up the Tesla mobile app to communicate with your Model 3:

1. Download the Tesla mobile app to your phone.
2. Log in to the Tesla mobile app by entering your Tesla account credentials.
3. Enable mobile access to your Model 3 by touching **Controls** > **Safety & Security** > **Mobile Access** (see [Controls on page 145](#)).
4. Turn your phone's Bluetooth setting **ON** and ensure that Bluetooth is turned on within your phone's global settings for the Tesla mobile app if you want to use an authenticated phone as a key. For example, on your phone, navigate to Settings, choose the Tesla mobile app, and ensure the Bluetooth setting is enabled.

Your smartphone and vehicle must both be actively connected to cellular service to allow the mobile app to communicate with your vehicle. Tesla recommends that you always have a functional physical key readily available if parking in an area with limited or absent cellular service, such as an indoor parking garage.

If multiple vehicles are linked to the Tesla Account, you must switch to the Model 3 you want to access in the mobile app before the phone can be used as a key. Swipe left or right to change vehicles.

NOTE: In the event that you require lockout assistance from Tesla due to a non-warranty issue, such as having limited cellular connectivity and having no secondary key available, your expenses are not covered under the Roadside Assistance policy.

NOTE: Tesla does not support the use of third party applications to contact Model 3.

Overview

The Tesla mobile app's home screen allows you to:

- See the name of your vehicle (if you have one)
- View your vehicle's estimated range.
- See which gear the vehicle is in (driving, park, etc.).
- Enable maximum defrost to warm your vehicle in cold conditions.
- Enable keyless driving.
- Open the front trunk.
- Lock or unlock your vehicle.
- At the bottom, view your vehicle's odometer, VIN, and firmware version if it is currently running.

For supported video sources, send videos to play in the Tesla Theater by sharing the link through the mobile app. Navigate to the movie, show, or video you want to play on your smartphone and touch the share button. Share the video with the Tesla app and it will appear on your vehicle's touchscreen if Model 3 is in Park.

Phone Key

Set up your phone as the key (as described in [Authenticated Phone on page 11](#)). Once authenticated, your phone's Bluetooth signal is detected as you approach your vehicle and the doors unlock when you press a door handle. Likewise, when you exit and walk away with the phone, doors automatically lock (provided the **Walk-Away Door Lock** feature is turned on, as described in [Walk-Away Door Lock on page 17](#)). You must be near your vehicle and have a key card ready to set up your smartphone as a phone key.

NOTE: You should always carry a key card or fob in the event you park your vehicle somewhere with inadequate cell service.

Climate

Check the interior temperature and heat or cool the cabin before driving (even if it's in a garage). You can also turn the seat heaters on (see [Seat Heaters on page 32](#)) and defrost the windshield by touching the windshield defrost icon at the bottom.



Turn Climate On: This allows you to precondition the cabin by moving the direction of air flow from the vents, and turning on or off the steering wheel and seat heaters.

Controls

The Controls tab allows you do the following:

- Vent or close the windows.
- Lock or unlock Model 3 from afar.
- Flash the lights or honk the horn to find where Model 3 is parked.
- Enable Keyless Driving.

NOTE: Keyless Driving can be used when you do not have your key or to bypass PIN to Drive in cases where you forgot your PIN or your touchscreen is unresponsive (see [PIN to Drive on page 176](#)).

- Open the front or rear trunk.
- Open and close your garage door if your vehicle has a programmed HomeLink connection, if available (see [HomeLink Universal Transceiver on page 180](#)).
- Enable or disable valet mode (see [Valet Mode on page 58](#)).
- Enable/disable Sentry Mode (see [Sentry Mode on page 176](#)).
- Enable/disable Speed Limit Mode and receive notifications when the vehicle's driving speed is within approximately 5 km/h of your selected maximum speed (see [Speed Limit Mode on page 152](#)).

Charging

Check charging progress, stop charging, and receive notifications when charging is started, interrupted, almost complete, or complete. You can also view nearby chargers and send the directions to your vehicle's touchscreen.

NOTE: When Supercharging, additional notifications alert you when you will be charged idle fees for parking at a supercharger after charging is complete. The idle fees are waived if your vehicle is moved within five minutes of when the vehicle finishes charging. See [Supercharger Usage Fees and Idle Fees on page 198](#).

Location

Locate Model 3 with directions, or track its movement across a map.

Summon

You can park or retrieve Model 3 using Summon (see [Summon on page 128](#)) or Smart Summon (see [Smart Summon on page 132](#)), if equipped.

Upgrades

View and purchase the latest upgrades available for your vehicle, such as full self-driving.

Schedule Service

Scheduling a service visit through the mobile app is easy. After touching **Schedule Service**, select the type of service needed and follow the directions in the mobile app. Provide as much detail as possible, such as:

- Photos, sound recordings, or videos.
- Date(s), time(s), and time zone when the issue occurred.
- Country of use and location.
- Approximate speed the vehicle was traveling (if applicable).
- Environmental conditions (rain, snow, cold, etc.).
- Road name and type of road (if applicable).
- Quality of lane markings (if applicable).
- Applicable vehicle settings.
- Identifiable symptoms.

Settings

In this settings tab located at the top corner of your smartphone's screen (shown as a gear icon), you can:



- Switch to a different vehicle associated with your Tesla account, if you have access to more than one.
- Access the Tesla inbox.
- View Notifications and customize the notifications you receive, such as when your security alarm has been triggered, charging updates, and new software updates. You can start them from afar and check its progress.
- Enable or disable Touch ID.
- Support the Model 3 Calendar app on the touchscreen by allowing the mobile app to send your phone's calendar data to your vehicle.

NOTE: Tesla currently does not support the addition of third or fourth users.

NOTE: Some of these features require installation of the latest version of the mobile app.

NOTE: The above list may not represent an exhaustive list of the functions available on the Tesla mobile app. To ensure access to new and improved features, download updated versions of the mobile app as they become available.

Granting Mobile App Access to a Second User

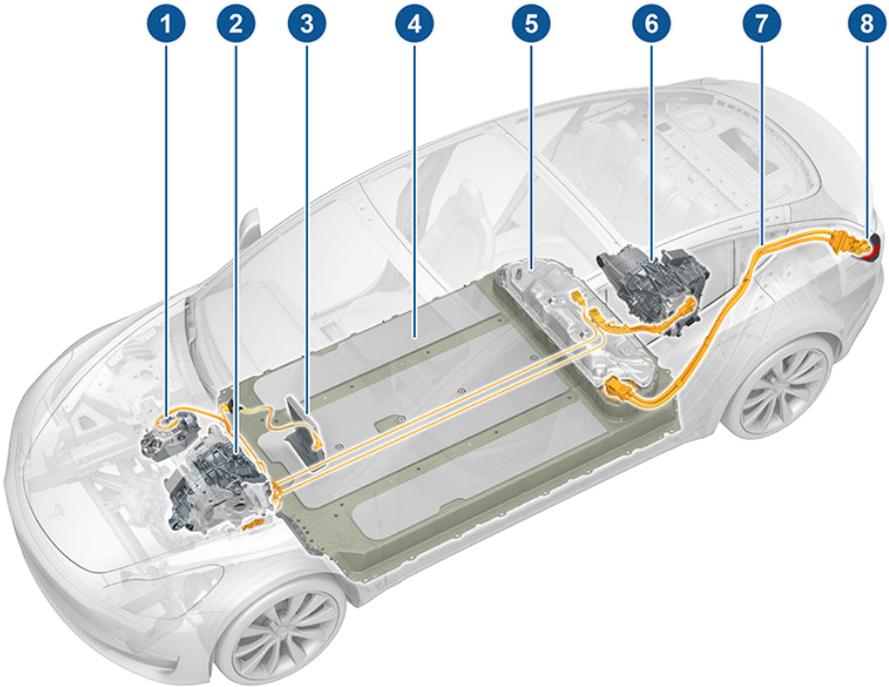
It's easy to grant mobile app access to a second user of your vehicle (such as a family member or friend). Log into your Tesla account and navigate to **Account > Personal Information > Contact > Add Additional Contact**. Add the secondary user's contact information. If the secondary user already has a Tesla account, use the email address associated with their existing Tesla account. They can then access your Model 3 from the mobile app. If they do not have a Tesla account, a welcome email will be sent to their registered email address. Once the account is created, they can access your vehicle from the mobile app. With mobile app access, secondary users can view and control your vehicle's settings remotely.

To remove access, delete the contact information of the second user.

NOTE: Granting mobile app access to a secondary user allows them to view and control everything your mobile app can control.



High Voltage Components



1. Air Conditioning Compressor
2. Front Motor (Dual Motor vehicles only)
3. Cabin Heater
4. High Voltage Battery
5. High Voltage Battery Service Panel
6. Rear Motor
7. High Voltage Cabling
8. Charge Port



WARNING: The high voltage system has no user serviceable parts. Do not disassemble, remove or replace high voltage components, cables or connectors. High voltage cables are typically colored orange for easy identification.



WARNING: Read and follow all instructions provided on the labels that are attached to Model 3. These labels are there for your safety.



WARNING: In the unlikely event that a fire occurs, immediately contact your local fire emergency responders.



Charging Equipment

Charging equipment designed specifically to charge your Model 3 is available from Tesla. A Tesla Wall Connector, which installs in your garage, is the fastest way to charge Model 3 at home.

In most market regions, Model 3 is equipped with a Mobile Connector and the adapter(s) needed to plug into the most commonly used power outlets. When using the Mobile Connector, first plug the Mobile Connector into the power outlet, and then plug in Model 3. For more information about your Mobile Connector, see the Mobile Connector Owner's Manual (available on the touchscreen). Additional adapters can be purchased from Tesla.

Tesla offers adapters (for example, J1772 and CHAdeMO) to allow you to plug into the most commonly used public charging stations in your region. Open the charge port door using the touchscreen (see [Charging Instructions on page 193](#)), plug the adapter into the charging port on Model 3, and then connect the station's charging connector to the adapter. For information on the charging equipment available for your region, go to www.tesla.com, choose your region, and then view the available charging options.



About the Battery

Model 3 has one of the most sophisticated battery systems in the world. The most important way to preserve the Battery is to **LEAVE YOUR VEHICLE PLUGGED IN** when you are not using it. This is particularly important if you are not planning to drive Model 3 for several weeks. When plugged in, Model 3 wakes up when needed to automatically maintain a charge level that maximizes the lifetime of the Battery.

NOTE: When left idle and unplugged, your vehicle periodically uses energy from the Battery for system tests and recharging the 12V battery when necessary.

There is no advantage to waiting until the Battery's level is low before charging. In fact, the Battery performs best when charged regularly.

NOTE: If you allow the Battery to discharge to 0%, other components may become damaged or require replacement (for example, the 12V battery). In these cases, you are responsible for repair and/or transporting expenses. Discharge-related expenses are not covered by the warranty or under the Roadside Assistance policy.

The peak charging rate of the Battery may decrease slightly after a large number of DC Fast Charging sessions, such as those at Superchargers. To ensure maximum driving range and Battery safety, the Battery charge rate is decreased when the Battery is too cold, when the Battery's charge is nearly full, and when the Battery conditions change with usage and age. These changes in the condition of the Battery are driven by battery physics and may increase the total Supercharging duration by a few minutes over time.

Battery Care

Never allow the Battery to fully discharge. Even when Model 3 is not being driven, its Battery discharges very slowly to power the onboard electronics. The Battery can discharge at a rate of approximately 1% per day, though the discharge rate may vary depending on environmental factors (such as cold weather), vehicle configuration, and your selected settings on the touchscreen.

Situations can arise in which you must leave Model 3 unplugged for an extended period of time (for example, at an airport when traveling). In these situations, keep the 1% in mind to ensure that you leave the Battery with a sufficient charge level. For example, over a two week period (14 days), the Battery may discharge by approximately 14%.

Discharging the Battery to 0% may result in damage to vehicle components. To protect against a complete discharge, Model 3 enters a low-power consumption mode when the displayed charge level drops to approximately 0%. In this mode, the Battery stops supporting the onboard electronics and auxiliary 12V battery. Once this low-power consumption mode is active, immediately plug in Model 3 to prevent a jump-start and 12V battery replacement.

NOTE: If the vehicle is unresponsive and will not unlock, open, or charge, then the 12V battery may have become discharged. In this situation, contact Tesla.

Temperature Limits

For better long-term performance, avoid exposing Model 3 to ambient temperatures above 60° C or below -30° C for more than 24 hours at a time.

Battery Warnings and Cautions



WARNING: The Battery has no parts that an owner or a non-Tesla authorized service technician can service. Under no circumstances should you open or tamper with the Battery. Always contact Tesla to arrange for Battery servicing.



CAUTION: If the Battery's charge level falls to 0%, you must plug it in. If you leave it unplugged for an extended period, it may not be possible to charge or use Model 3 without jump starting or replacing the 12V battery (see [Instructions for Transporters on page 235](#) for instructions on how to jump start the battery). Leaving Model 3 unplugged for an extended period can also result in permanent Battery damage. If you are unable to charge Model 3, contact Tesla immediately.



Battery Information



CAUTION: The Battery requires no owner maintenance. Do not remove the coolant filler cap and do not add fluid. If the touchscreen warns you that the fluid level is low, contact Tesla immediately.



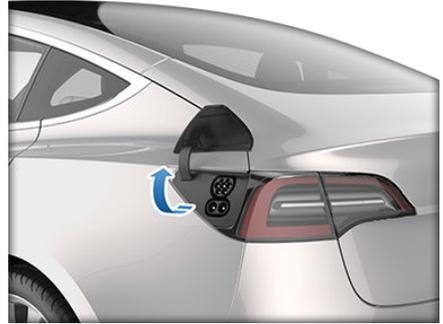
CAUTION: Do not use the Battery as a stationary power source. Doing so voids the warranty.



Opening the Charge Port

The charge port is located on the left side of Model 3, behind a door that is part of the rear tail light assembly. Before charging, park Model 3 to ensure that the charge cable easily reaches the charge port.

With Model 3 unlocked (or an authenticated phone is within range) and in Park, press and release the button on the Tesla charge cable to open the charge port door.



NOTE: The Tesla “T” lights up white when you open the charge port door. If you do not insert a charge cable into the charge port within a few minutes after opening the charge port door, the charge port door closes. If this happens, use the touchscreen to open the charge port door again.



CAUTION: Do not try to force the charge port door open.



You can also open the charge port door using any of these methods:

- On the touchscreen, use the app launcher to open the Charging app, then touch **Open Charge Port**.
- On the car status on the touchscreen, touch the charging icon.
- On the “Cards” area on the touchscreen, touch the charging icon, then press **OPEN CHARGE PORT**.
- Press the bottom of the charge port door when Model 3 is unlocked or an authenticated phone is nearby.
- On the key fob accessory (sold separately), hold down the rear trunk button for 1-2 seconds.

NOTE: The following image is provided for demonstration purposes only. Depending on market region, your charge port may be slightly different.

Plugging In

If desired, use the touchscreen to change the charge limit and the charging current (see [Charging Status and Settings on page 196](#)).

To charge at a public charging station, plug the appropriate adapter into the vehicle’s charging port, and then connect the station’s charging connector to the adapter. The most commonly used adapter(s) for each market region are provided. Depending on the charging equipment you are using, you may need to start and stop charging using a control on the charging equipment.

If you are using the Mobile Connector, plug it into the power outlet before plugging it into Model 3.

Align the connector to the charge port and insert fully. When the connector is properly inserted, charging begins automatically after Model 3:

- Engages a latch that holds the connector in place;
- Shifts into Park (if it was in any other gear);



- Heats or cools the Battery, if needed. If the Battery requires heating or cooling, you may notice a delay before charging begins.

NOTE: Whenever Model 3 is plugged in but not actively charging, it draws energy from the wall outlet instead of using energy stored in the Battery. For example, if you are sitting in Model 3 and using the touchscreen while parked and plugged in, Model 3 draws energy from the wall outlet instead of the Battery.



CAUTION: The connector end of the charge cable can damage the paint if dropped onto the vehicle.

During Charging

During charging, the charge port light (the Tesla "T" logo) pulses green, and the touchscreen displays the charging status. The frequency at which the charge port light pulses slows down as the charge level approaches full. When charging is complete, the light stops pulsing and is solid green.

NOTE: If Model 3 is locked, the charge port light does not light up.

If the charge port light turns red while charging, a fault is detected. Check the touchscreen for a message describing the fault. A fault can occur due to something as common as a power outage. If a power outage occurs, charging resumes automatically when power is restored.

NOTE: When charging, particularly at high currents, the refrigerant compressor and fan operate as needed to keep the Battery cool. Therefore, it is normal to hear sounds during charging.

NOTE: Air conditioning performance is generally not affected by charging. However, under certain circumstances (for example, you are charging at high currents during a particularly warm day), the air coming from the vents may not be as cool as expected and a message displays on the touchscreen. This is normal behavior and ensures that the Battery stays within an optimum temperature range while charging to support longevity and optimum performance.



WARNING: Never spray liquid at a high velocity (for example, if using a pressure washer) towards the charge port while charging. Failure to follow these instructions can result in serious injury or damage to the vehicle, charging equipment, or property.

Stopping Charging

Stop charging at any time by disconnecting the charge cable or touching **Stop Charging** on the touchscreen.

NOTE: To prevent unauthorized unplugging of the charge cable, the charge cable latch remains locked and Model 3 must be unlocked or able to recognize your authenticated phone before you can disconnect the charge cable.

To disconnect the charge cable:

1. Press and hold the button on the connector handle to release the latch. Alternatively, unlock the vehicle by opening a door, using a key card or key fob, or touching **Stop Charging** on the touchscreen. These methods unlock the charge port as well.
2. Pull the connector from the charge port.

NOTE: The charge port automatically closes within approximately 10 seconds of removing the connector from the charge port.



CAUTION: Tesla strongly recommends leaving Model 3 plugged in when not in use. This maintains the Battery at the optimum level of charge.

Manually Releasing Charge Cable

If the usual methods for releasing a charge cable from the charge port (using the charge handle release button, touchscreen, or mobile app) do not work, carefully follow these steps:

1. Ensure that Model 3 is not actively charging by displaying the charging screen on the touchscreen. If necessary, touch **Stop Charging**.
2. Open the rear trunk.



3. Pull the charge port's release cable downwards to unlatch the charge cable.



NOTE: The release cable may be recessed within the opening of the trim.

4. Pull the charge cable from the charge port.



CAUTION: The release cable is designed for use only in situations where the charge cable cannot be released from the charge port using the usual methods. Continuous use may result in damage to the release cable or charging equipment.



WARNING: Do not perform this procedure while your vehicle is charging or if any orange high voltage conductors are exposed. Failure to follow these instructions can result in electric shock and serious injury or damage to the vehicle. If you have any uncertainty as to how to safely perform this procedure, contact your closest Service Center.



WARNING: Do not attempt to remove the charge cable while simultaneously pulling the release cable. Always pull the release cable before attempting to remove the charge cable from the charge port. Failure to follow these instructions can result in electric shock and serious injury.

• **BLUE:** Model 3 detects that a connector has been plugged in.

• **BLINKING BLUE:** Model 3 is communicating with the connector. Either Model 3 is preparing to charge, or a charging session is scheduled to begin at a specified future time.

• **BLINKING GREEN:** Charging is in progress. As Model 3 approaches a full charge, the frequency of the blinking slows.

• **SOLID GREEN:** Charging is complete.

• **SOLID AMBER:** The connector is not fully plugged in. Realign the connector to the charge port and insert fully.

• **BLINKING AMBER:** Model 3 is charging at a reduced current (AC charging only).

• **RED:** A fault is detected and charging has stopped. Check the touchscreen for a fault message.

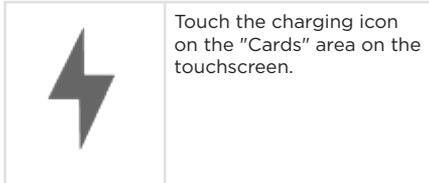
Charge Port Light

• **WHITE:** The charge port door is open. Model 3 is ready to charge and the connector is not inserted, or the charge port latch is unlocked and the connector is ready to be removed.



Charging Status and Settings

The charging screen displays on the touchscreen whenever the charge port door is open. To display the charging screen at any time:

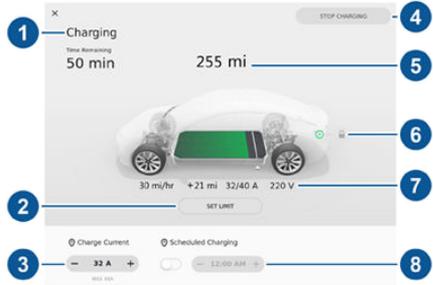


The charging screen displays a representative image of the status of the Battery and information about your charging session including:

- Charging rate (in kilowatt hours, miles per hour, or kilometers per hour, depending on your display setting).
- Added energy or estimated increase in driving distance achieved so far in this charging session (in kilowatt hours, miles per hour, or kilometers per hour, depending on your display setting).
- Current supplied/available from the connected power supply.
- Voltage supplied by the charge cable.

NOTE: To change how energy units are displayed, touch **Controls > Display > Energy Display**.

NOTE: The following illustration is provided for demonstration purposes only and may vary slightly depending on software version and market region.



1. Charge status messages (such as Charging, Charging Scheduled) display here. While charging, the estimated time remaining to achieve your set limit is also displayed.

2. Adjust the charge limit by touching **Set Limit**, and drag the arrow to move the charge limit setting. The setting you choose applies to immediate and scheduled charging sessions.

3. The current automatically sets to the maximum current available from the attached charge cable, unless it was previously reduced to a lower level. If needed, touch **-** or **+** to change the current (for example, you may want to reduce the current if you are concerned about overloading a domestic wiring circuit shared by other equipment). It is not possible to set the charging current to a level that exceeds the maximum available from the attached charge cable. When you change the current, Model 3 remembers the location. If you charge at the same location, you do not need to change it again.



NOTE: If Model 3 is charging and detects unexpected fluctuations in input power, the charging current is automatically reduced by 25%. For example, a 40 amp current is reduced to 30 amps. This automatic current reduction increases robustness and safety in situations when an external problem exists (for example, a home wiring system, receptacle, adapter or cord is unable to meet its rated current capacity). As a precaution, when Model 3 automatically reduces current, it saves the reduced current at the charging location. Although you can manually increase it, Tesla recommends charging at the lower current until the underlying problem is resolved and the charging location can provide consistent power.

4. Touch to open the charge port door or to start (or stop) charging.
5. Displays the total estimated driving distance or energy percentage (depending on your display setting) available.
6. Shows if the charge cable is locked in the charge port or not. If Model 3 is not charging, you can touch the lock icon to unlock the charge cable from the charge port.

NOTE: In cold ambient temperatures below 41° F (5° C), the charge cable remains unlocked whenever the vehicle is not charging.

7. Charging rate, estimated increase in driving distance (or energy) achieved so far in this charging session, current supplied/available from the connected power supply, and voltage supplied by the charge cable.
8. Set a recurring charging schedule for the location (see [Scheduled Charging and Scheduled Departure on page 197](#)).

NOTE: If charging at a Tesla Supercharger, the charging screen also displays information about your previous or current Supercharger session (see [Supercharger Usage Fees and Idle Fees on page 198](#)).

NOTE: To reduce congestion at high-usage supercharger sites, you may be automatically limited to a maximum charge of 80% when not using Trip Planner (see [Trip Planner on page 165](#)). You can manually increase the limit by tapping “Set Limit” on the touchscreen or mobile app.

Scheduled Charging and Scheduled Departure

There are two ways in which you can schedule your vehicle's charging:

- **Scheduled Charging:** When you set a scheduled charging time, Model 3 displays the set time to begin charging when you are parked at the scheduled location. If, at the scheduled time, Model 3 is not plugged in at the location, charging starts as soon as you plug it in, provided you plug it in within six hours of the scheduled time. If plugged in after six hours, charging does not start until the scheduled time on the next day. To override this setting, touch **Start Charging** or **Stop Charging**.
- **Scheduled Departure:** For any location, such as Home, you can simply plug in Model 3 and select a time for when you want your vehicle to be ready to drive. Once your specified time is set, Model 3 prepares itself by determining the best time to start charging to optimize energy costs, Battery longevity, and ensure charging completes in time for your drive. Your vehicle also preconditions the cabin to a comfortable temperature and warms the Battery. To set up a scheduled departure time, go to **Charging > Scheduled Departure > Schedule** and follow the onscreen instructions to customize your schedule.

Scheduled Charging is best used to determine when your vehicle should start charging; Scheduled Departure is best used to determine when charging should complete for your drive.

NOTE: Your vehicle aims to finish charging before 6am (end of off-peak hours). If given sufficient time to charge, charging may stop at 6am, even if your scheduled departure is later. The vehicle warms the Battery and preconditions the cabin shortly before your scheduled departure time. If the vehicle does not have enough time to complete charging before 6am, it will continue to charge until it reaches the target Battery percentage.

NOTE: If your vehicle is not plugged into a charger, Scheduled departure will not precondition the cabin or battery.



Supercharger Usage Fees and Idle Fees

When charging using a Tesla supercharger, **SUPERCHARGING** information displays at the bottom of the charging screen. This information includes the location, the time that charging started, and an estimate of how much the session will cost. When you stop supercharging, the estimated cost of that session displays until a new supercharging session begins.

NOTE: Estimated pricing is displayed for your convenience only and may not reflect the actual final price you will be charged for that supercharging session. Final pricing for supercharging sessions can be found in your Tesla Account.

When charging at a Tesla supercharger, you are subject to idle fees. Idle fees are designed to encourage drivers to move their vehicle from the Supercharger when charging is complete. Idle fees are in effect only when half or more of the Superchargers at a site are occupied. The Tesla mobile app notifies you when charging nears completion, and again when charging is complete. Additional notifications are sent if idle fees are incurred. Idle fees are waived if you move your vehicle within five minutes of charging completion.

Log into your Tesla Account to view fees and details about Supercharger sessions, set up a payment method, and make payments. Once a payment method is saved, fees are automatically paid from your account.



Service Intervals

Your vehicle should generally be serviced on an as-needed basis. However, Tesla recommends the following maintenance items and intervals, as applicable to your vehicle, to ensure continued reliability and efficiency of your Model 3.

- Brake fluid health check every 2 years (replace if necessary) or, if the vehicle is used for towing, replace the brake fluid every 2 years
- A/C desiccant bag replacement every 6 years
- Cabin air filter replacement every 2 years
- Clean and lubricate brake calipers every year or 12,500 miles (20,000 km) if in an area where roads are salted during winter
- Rotate tires every 16,000-20,000 km or if tread depth difference is 1.5 mm or greater

NOTE: The above intervals are based on normal driving behaviors and scenarios. Additionally, the above list should not be considered comprehensive and does not include consumable parts such as windshield wipers, brake pads, etc.

NOTE: Damages or failures caused by maintenance or repairs performed by non-Tesla certified technicians are not covered by the warranty.

Daily Checks

- Check the Battery's charge level, displayed on the touchscreen or mobile app.
- Check the condition and pressure of each tire (see [Tire Care and Maintenance on page 201](#)).
- Check that all exterior lights, horn, turn signals, and wipers and washers are working.
- Check for any unexpected indicator lights or vehicle alerts on the touchscreen.
- Check the operation of the brakes, including the parking brake.
- Check the operation of the seat belts (see [Seat Belts on page 34](#)).

- Look for abnormal fluid deposits underneath Model 3 that might indicate a leak. It is normal for a small pool of water to form (caused by the air conditioning system's dehumidifying process).

- Look around the exterior of Model 3 and immediately remove any corrosive substances (such as bird droppings, tree resin, tar spots, dead insects, industrial fallout, etc.) to prevent damage to the paint (see [Cleaning on page 209](#)).

Monthly Checks

- Check windshield washer fluid level and top up if necessary (see [Topping Up Windshield Washer Fluid on page 215](#)).
- Check that the air conditioning system is operating correctly (see [Climate Controls on page 154](#)).

NOTE: In addition to cooling the interior, the air conditioning compressor also cools the Battery. Therefore, in hot weather, the air conditioning compressor can turn on even if you turned it off. This is normal because the system's priority is to cool the Battery to ensure it stays within an optimum temperature range to support longevity and optimum performance. Also, even when not in use, you may hear Model 3 emit a whining noise or the sound of water circulating. These sounds are normal and occur when the internal cooling systems turn on to support various vehicle functions, such as maintaining the 12V battery and balancing the temperature of the high voltage Battery.



WARNING: Contact Tesla immediately if you notice any significant or sudden drop in fluid levels or uneven tire wear.

Fluid Replacement Intervals

Your Battery coolant does not need to be replaced for the life of your vehicle under most circumstances. Brake fluid should be checked every 2 years, replacing if necessary*.

*If the vehicle is used for towing, the brake fluid should be replaced every 2 years regardless of the health check.



NOTE: Any damage caused by opening the Battery coolant reservoir is excluded from the warranty.

High Voltage Safety

Your Model 3 has been designed and built with safety as a priority. However, be aware of these precautions to protect yourself from the risk of injury inherent in all high-voltage systems:

- Read and follow all instructions provided on the labels that are attached to Model 3. These labels are there for your safety.
- The high voltage system has no user-serviceable parts. Do not disassemble, remove or replace high voltage components, cables or connectors. High voltage cables are colored orange for easy identification.
- If a collision occurs, do not touch any high voltage wiring, connectors, or components connected to the wiring.
- In the unlikely event that a fire occurs, immediately contact your local fire emergency responders.



WARNING: Always disconnect the charge cable before working underneath Model 3, even if charging is not in progress.



WARNING: Keep your hands and clothing away from cooling fans. Some fans operate even when Model 3 is powered off.



WARNING: Some fluids (battery acid, Battery coolant, brake fluid, windshield washer additives, etc.) used in vehicles are poisonous and should not be inhaled, swallowed, or brought into contact with open wounds. For your safety, always read and follow instructions printed on fluid containers.



Maintaining Tire Pressures

If you are not towing a trailer, keep tires inflated to the pressures shown on the Tire and Loading Information label, even if it differs from the pressure printed on the tire itself. The Tire and Loading Information label is located on the center door pillar and is visible when the front door is open.

If you are towing a trailer, do not use the tire pressures printed on the Tire and Loading Information Label. Instead, refer to the tire pressures published in the towing topic (see [Towing and Accessories on page 95](#)).

NOTE: If your Model 3 is fitted with Tesla accessory wheels or tires, some information may be different from the labels on the vehicle.



The Tire Pressure indicator light on the touchscreen alerts you if one or more tires is under- or over-inflated.

The Tire Pressure indicator light does not immediately turn off when you adjust tire pressure. After inflating the tire to the recommended pressure, you must drive over 25 km/h for more than 10 minutes to activate the Tire Pressure Monitoring System (TPMS), which turns off the Tire Pressure indicator light.

If the indicator light flashes for one minute whenever you power on Model 3, a fault with the TPMS is detected (see [TPMS Malfunction on page 206](#)).

NOTE: Display tire pressures in the “Cards” area, located toward the bottom on the left side of the touchscreen, as described in [Touchscreen Overview on page 6](#). You can also choose whether you want to display tire pressures using BAR or PSI by touching **Controls > Display > Tire Pressure**.



WARNING: Under-inflation is the most common cause of tire failures and can cause a tire to overheat, resulting in severe tire cracking, tread separation, or blowout, which causes unexpected loss of vehicle control and increased risk of injury. Under-inflation also reduces the vehicle’s range and tire tread life.



WARNING: Check tire pressures using an accurate pressure gauge when tires are cold. It takes only about 1.6 kms of driving to warm up the tires sufficiently to affect tire pressures. Parking the vehicle in direct sunlight or in hot weather can also affect tire pressures. If you must check warm tires, expect increased pressures. Do not let air out of warm tires in an attempt to match recommended cold tire pressures. A hot tire at or below the recommended cold tire inflation pressure is dangerously under-inflated.



WARNING: Do not use any tire sealant other than the type provided in a Tesla tire repair kit. Other types can cause tire pressure sensors to malfunction. If your Model 3 did not include a tire repair kit, you can purchase one from Tesla.

Checking and Adjusting Tire Pressures

Follow these steps when tires are cold and Model 3 has been stationary for over three hours:

1. Refer to the Tire and Loading Information label located on the driver’s center door pillar for the target tire pressure.
2. Remove the valve cap.
3. Firmly press an accurate tire pressure gauge onto the valve to measure pressure.



4. If required, add or remove air to reach the recommended pressure.

NOTE: You can release air by pressing the metal stem in the center of the valve.

5. Re-check pressure using the accurate tire gauge.

6. Repeat steps 3 and 4 as necessary until the tire pressure is correct.

7. Reinstall the valve cap to prevent dirt from entering. Periodically check the valve for damage and leaks.

Unbalanced wheels (sometimes noticeable as vibration through the steering wheel) affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

If tire wear is uneven (on one side of the tire only) or becomes abnormally excessive, check the alignment of wheels.

NOTE: When replacing only two tires, install the new tires on the rear if your vehicle's front and rear tires are the same size.

Inspecting and Maintaining Tires

Regularly inspect the tread and side walls for any sign of distortion (bulges), foreign objects, cuts or wear.



WARNING: Do not drive Model 3 if a tire is damaged, excessively worn, or inflated to an incorrect pressure. Check tires regularly for wear, and ensure there are no cuts, bulges or exposure of the ply/cord structure.

Tire Wear

Adequate tread depth is important for proper tire performance. Tires with a tread depth less than 3 mm are more likely to hydroplane in wet conditions and should not be used. Tires with a tread depth less than 4 mm do not perform well in snow and slush and should not be used when driving in winter conditions.

Model 3 is originally fitted with tires that have wear indicators molded into the tread pattern. When the tread has been worn down to 3 mm, the indicators start to appear at the surface of the tread pattern, producing the effect of a continuous band of rubber across the width of the tire. For optimal performance and safety, Tesla recommends replacing tires before the wear indicators are visible.

Tire Rotation, Balance, and Wheel Alignment

Tesla recommends rotating the tires every 16,000-20,000 km or if tread depth difference is 1.5 mm or greater.

Punctured Tires

A puncture eventually causes the tire to lose pressure, which is why it is important to check tire pressures frequently. Permanently repair or replace punctured or damaged tires as soon as possible.

Your tubeless tires may not leak when penetrated, provided the object remains in the tire. If, however, you feel a sudden vibration or ride disturbance while driving, or you suspect a tire is damaged, immediately reduce your speed. Drive slowly, while avoiding heavy braking or sharp steering and, when safe to do so, stop the vehicle. Arrange to have Model 3 transported to a Tesla Service Center, or to a nearby tire repair center.

NOTE: In some cases, you can temporarily repair small tire punctures (under 6 mm) using an optional tire repair kit available from Tesla. This allows you to slowly drive Model 3 to Tesla or to a nearby tire repair facility.



WARNING: Do not drive with a punctured tire that has not been repaired, even if the puncture has not caused the tire to deflate. A punctured tire can deflate suddenly at any time.

Flat Spots

If Model 3 is stationary for a long period, tires can form flat spots. When Model 3 is driven, these flat spots cause a vibration which gradually disappears as the tires warm up and regain their original shape.

To minimize flat spots during storage, inflate tires to the maximum pressure indicated on the tire wall. Then, before driving, release air to adjust tire pressure to the recommended levels.



Improving Tire Mileage

To improve the mileage you get from your tires, maintain tires at the recommended tire pressures, observe speed limits and advisory speeds, and avoid:

- Pulling away quickly, or hard acceleration.
- Fast turns and heavy braking.
- Potholes and objects in the road.
- Hitting curbs when parking.
- Contaminating tires with fluids that can cause damage.

Replacing Tires and Wheels

Tires degrade over time due to the effects of ultraviolet light, extreme temperatures, high loads, and environmental conditions. It is recommended that tires are replaced every six years, or sooner if required, even if tread depth is above the minimum.

Wheel and tires are matched to suit the handling characteristics of the vehicle. Replacement tires must comply with the original specification. If tires other than those specified are used, ensure that the load and speed ratings marked on the tire (see [Understanding Tire Markings on page 229](#)) equal or exceed those of the original specification.

Ideally, you should replace all four tires at the same time. If this is not possible, replace the tires in pairs, placing the new tires on the rear. Always balance the wheel and tire after replacing a tire.

If you replace a wheel, the TPMS (Tire Pressure Monitoring System) sensors need to be reset to ensure they provide accurate warnings when tires are under- or over-inflated (see [Automatic Reset of TPMS Sensors on page 205](#) and [Manually Resetting TPMS Sensors on page 205](#)).

For the specification of the original wheels and tires installed on Model 3, see [Wheels and Tires on page 227](#).

NOTE: Installing winter tires with aggressive compound and tread design may result in temporarily-reduced regenerative braking power. However, your vehicle is designed to continuously recalibrate itself, and after changing tires it will increasingly restore regenerative braking power after some moderate-torque straight-line accelerations. For most drivers this occurs after a short period of normal driving, but drivers who normally accelerate lightly may need to use slightly harder accelerations while the recalibration is in progress.



WARNING: For your safety, use only tires and wheels that match the original specification. Tires that do not match the original specification can affect the operation of the TPMS.



WARNING: Never exceed the speed rating of your vehicle's tires. The speed rating is shown on the sidewall of your tires (see [Understanding Tire Markings on page 229](#)).

Asymmetric Tires

Model 3 tires are asymmetric and must be mounted on the wheel with the correct sidewall facing outward. The sidewall of the tire is marked with the word **OUTSIDE**. When new tires are installed, make sure that the tires are correctly mounted on the wheels.



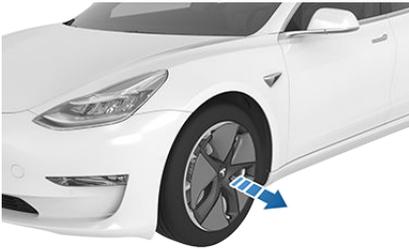
WARNING: Road holding is seriously impaired if the tires are incorrectly installed on the wheels.

Removing and Installing Aero Covers

If your Model 3 is equipped with aero covers, you must remove them to access the lug nuts.

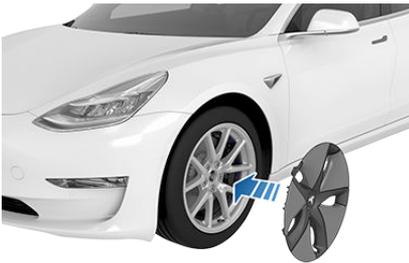
To remove an aero cover:

1. Grasp the aero cover firmly with both hands.
2. Pull the aero cover toward you to release the retaining clips.



To install an aero cover:

1. Align the aero cover into position so that the notch at the base of the Tesla "T" is aligned with the tire's valve stem.



2. Push firmly around the perimeter of the aero cover until it fully snaps into place.



CAUTION: Make sure the aero cover is fully secure before driving to prevent it from falling off.

Removing and Installing Lug Nut Covers

If your Model 3 is equipped with lug nut covers, you must remove them to access the lug nuts.

To remove a lug nut cover:

1. Insert the curved part of the lug nut cover tool (located in the glovebox for some vehicles, or you can use a small allen wrench) into the hole at the base of the Tesla "T".

NOTE: The lug nut cover tool can also be purchased at an auto parts store or through online retailers.



2. Maneuver the lug nut cover tool so that it is fully inserted into the hole in the lug nut cover.

3. Twist the lug nut cover tool so that the curved part is touching the middle of the lug nut cover.

4. Firmly pull the lug nut tool away from the wheel until the lug nut cover is released.



To install the lug nut cover:

1. Align the lug nut cover into position.
2. Push firmly on the lug nut cover until it fully snaps into place.



CAUTION: Make sure the lug nut cover is fully secure before driving to prevent it from falling off.



Wheel Configuration

If you are installing new wheels or swapping them for different ones, update your vehicle's wheel configuration by touching **Controls > Service > Wheel Configuration**. This allows Model 3 to learn the new wheels and provide more accurate status updates on your vehicle. Select a wheel from the drop down menu that matches the new wheels you plan to install on Model 3. Selecting new wheels in the wheel configuration also changes the wheels that appear on your vehicle's avatar on the touchscreen.

Ensure you are aware if your vehicle is equipped with staggered wheels, meaning the wheels are different sizes in the front and rear. Check the front and rear tire sizes marked on the tire sidewall to see if they match or are different sizes. If the wheels are staggered, take extra precaution to ensure the new wheels you install are staggered in the same way as the previous wheels.

NOTE: Changing your vehicle's wheel configuration can impact range estimates, tire pressure warning levels, and vehicle visualization.



WARNING: Only use Tesla-approved wheels when installing or swapping wheels. Using non Tesla-approved wheels can cause serious damage. Tesla is not liable for damage caused by using wheels not approved by Tesla.

Tire Pressure Monitoring

Each tire should be checked monthly when cold and inflated to the recommended pressures that are printed on the Tire and Loading Information label located on the driver's door pillar (see [Maintaining Tire Pressures on page 201](#)). If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, determine the proper tire inflation pressure for those tires.

As an added safety feature, your vehicle has been equipped with a TPMS that displays a tire pressure telltale (Tire Pressure Warning) on the touchscreen when one or more of your tires is significantly under- or over-inflated. Accordingly, when the Tire Pressure indicator light displays on the touchscreen to alert you about tire pressure, stop and check your tires

as soon as possible, and inflate them to the proper pressure (see [Maintaining Tire Pressures on page 201](#)). Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces range efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.



If Model 3 detects a fault with the TPMS, this indicator flashes for one minute whenever you power on Model 3.

NOTE: Installing accessories that are not approved by Tesla can interfere with the TPMS.



WARNING: The TPMS is not a substitute for proper tire maintenance, including manually checking tire pressures and regularly inspecting the condition of tires. It is the driver's responsibility to maintain correct tire pressure, even if under- or over-inflation has not reached the level for the TPMS to trigger the Tire Pressure Warning on the touchscreen.

Automatic Reset of TPMS Sensors

After replacing one or more wheels (but not after replacing a tire or rotating wheels), the TPMS sensors are reset to ensure tire pressure warnings are accurate. TPMS sensors reset automatically after driving over 25 km/h for longer than 10 minutes.

NOTE: After replacing a wheel, false tire pressure warnings may display before you've driven 25 km/h for longer than 10 minutes.

Manually Resetting TPMS Sensors

To accommodate aftermarket tires and specific off-highway driving situations (such as track events), you can reset the TPMS sensors to trigger an alert based on the currently set tire pressure instead of the default factory tire pressure. To do so, touch **Service > Reset TPMS Sensors** and follow the onscreen instructions.



NOTE: Resetting TPMS sensors may be especially helpful when using Track Mode, but remember to restore the factory TPMS setting when returning to normal driving.



WARNING: If your Model 3 is equipped with aftermarket tires that differ in size from those printed on the Tire and Loading Information Label (see [Vehicle Loading on page 219](#)), it is the driver's responsibility to determine the correct tire pressure. Do not drive on public roads when tires are not inflated to the correct pressure.



WARNING: Do not depend on TPMS sensors to accurately determine pressures and trigger alerts. It is the driver's responsibility to maintain correct tire pressures (see [Maintaining Tire Pressures on page 201](#)). Over or under-inflated tires can result in loss of control or tire damage, which can lead to serious injury.

Replacing a Tire Sensor

If the Tire Pressure warning indicator displays frequently, contact Tesla to determine if a tire sensor needs to be replaced. If a non-Tesla Service Center repairs or replaces a tire, the tire sensor may not work until Tesla performs the setup procedure.

TPMS Malfunction

Model 3 has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.



The TPMS malfunction indicator is combined with the tire pressure indicator light. When the system detects a malfunction, the indicator flashes for approximately one minute, then remains continuously lit. This sequence continues upon subsequent vehicle start-ups as long as the malfunction exists. When the TPMS malfunction indicator is on, the system might not be able to

detect or signal under- or over-inflated tires as intended.

TPMS malfunctions can occur for a variety of reasons, including installing replacement or alternate tires or wheels that prevent the TPMS from functioning properly. Always check the TPMS malfunction indicator light after replacing one or more tires or wheels on your vehicle to ensure that the replacement tires or wheels allow the TPMS to continue to function properly.

NOTE: If a tire has been replaced or repaired using a different tire sealant than the one available from Tesla, and a low tire pressure is detected, it is possible that the tire sensor has been damaged. Contact Tesla to have the fault repaired as soon as possible.

Seasonal Tire Types

Summer Tires

Your vehicle may be originally equipped with high performance summer tires or all season tires. Tesla recommends using winter tires if driving in cold temperatures or on roads where snow or ice may be present. Contact Tesla for winter tire recommendations.



WARNING: In cold temperatures or on snow or ice, summer tires do not provide adequate traction. Selecting and installing the appropriate tires for winter conditions is important to ensure the safety and optimum performance of your Model 3.

All-Season Tires

Your Model 3 may be originally equipped with all-season tires. These tires are designed to provide adequate traction in most conditions year-round, but may not provide the same level of traction as winter tires in snowy or icy conditions. All-season tires can be identified by "ALL SEASON" and/or "M+S" (mud and snow) on the tire sidewall.



Winter Tires

Use winter tires to increase traction in snowy or icy conditions. When installing winter tires, always install a complete set of four tires at the same time. Winter tires must be the same diameter, brand, construction and tread pattern on all four wheels. Contact Tesla for winter tire recommendations.

When equipped with winter tires, refer to the tire warning label on the door pillar.



Winter tires can be identified by a mountain/snowflake symbol on the tire's sidewall.

When driving with winter tires, you may experience more road noise, shorter tread life, and less traction on dry roads.

NOTE: Installing winter tires with aggressive compound and tread design may result in temporarily-reduced regenerative braking power. However, your vehicle is designed to recalibrate itself to restore regenerative braking power after a short period of normal driving.

Driving in Low Temperatures

Tire performance is reduced in low ambient temperatures, resulting in reduced grip and an increased susceptibility to damage from impacts. Performance tires can temporarily harden when cold, causing you to hear rotational noise for the first few kilometers until the tires warm up.

Using Tire Chains

Tesla has tested and approved the following tire chains to increase traction in snowy conditions. Tire chains should only be installed on the rear tires.

Tire Size	Recommended Chain
18"	PEWAG SERVO SPORT RSS 76

Tire Size	Recommended Chain
19"	PEWAG SERVO RS 77
20"	MAGGI TRAK SP214



CAUTION: If your Model 3 is equipped with aero covers, you must remove them before installing tire chains (see [Removing and Installing Aero Covers on page 203](#)). Failure to do so can cause damage not covered by the warranty.

When installing tire chains, follow the instructions and warnings provided by the tire chain manufacturer. Mount them evenly and as tight as possible.

When using tire chains:

- Inspect the tire chains for loose fittings and damaged links before each use.
- Avoid heavily loading Model 3 (heavy loads can reduce the clearance between the tires and the body).
- Do not drive the vehicle without the chains properly installed.
- Drive slowly. Do not exceed 48 km/h.
- Remove the tire chains as soon as conditions allow.

NOTE: Tire chains are prohibited in some jurisdictions. Check local laws before installing tire chains.



CAUTION: Using non-recommended tire chains, or using tire chains on other sized tires can damage the suspension, body, wheels, and/or brake lines. Damage caused by using non-recommended tire chains, or incorrectly installing tire chains, is not covered by the warranty.



CAUTION: Do not use tire chains on the front tires.



CAUTION: Never deflate your tires to put on tire chains. When re-inflated, the chains might fit too tightly and cause tire damage.



Tire Care and Maintenance



CAUTION: Ensure that the tire chains cannot touch suspension components or brake lines. If you hear the chains making unusual noises that would indicate contact with Model 3, stop and investigate immediately.



Cleaning the Exterior

To prevent damage to the paint, immediately remove corrosive substances (bird droppings, tree resin, dead insects, tar spots, road salt, industrial fallout, etc.). Do not wait until Model 3 is due for a complete wash. If necessary, use denatured alcohol to remove tar spots and stubborn grease stains, then immediately wash the area with water and a mild, non-detergent soap to remove the alcohol.

Keep the exterior cameras free of dirt, condensation, or obstructions. Occasionally remove any buildup of dirt by wiping the components with a soft cloth dampened with warm water. These substances can cause autopilot and safety features to stop working (see [Cleaning Cameras and Sensors on page 110](#)).

Follow these steps when washing the exterior of Model 3:

1. Rinse Thoroughly

Before washing, flush grime and grit from the vehicle using a hose. Flush away accumulations of mud in areas where debris easily collects (such as wheel wells and panel seams). If salt has been used on the highways (such as during winter months), thoroughly rinse all traces of road salt from the underside of the vehicle, wheel wells, and brakes.

2. Hand Wash

Hand wash Model 3 using a clean soft cloth and cold or lukewarm water containing a mild, high-quality car shampoo.



CAUTION: Some cleaners and car shampoos contain chemicals that can cause damage or discoloration, especially to plastic trim pieces, lamps, or camera lenses. For example, some car cleaning formulas contain hydroxide or other highly alkaline or caustic ingredients that can damage exterior components. Damage or discoloration resulting from cleaning products is not covered by the warranty.

3. Rinse with Clean Water

After washing, rinse with clean water to prevent soap from drying on the surfaces.

4. Dry Thoroughly and Clean Exterior Glass

After washing and rinsing, dry thoroughly with a chamois. If necessary, dry the brakes by going on a short drive and applying the brakes multiple times.

Clean windows and mirrors using an automotive glass cleaner. Do not scrape, or use any abrasive cleaning fluid on glass or mirrored surfaces.

Cautions for Exterior Cleaning



CAUTION: Do not wash in direct sunlight.



CAUTION: Do not use windshield treatment fluids. Doing so can interfere with wiper friction and cause a chattering sound.



CAUTION: Do not use hot water, detergents, or highly alkaline or caustic cleaning products, especially those containing hydroxide.



CAUTION: If using a pressure washer, maintain a distance of at least 30 cm between the nozzle and the surface of Model 3. Avoid aiming the water jet directly on the camera(s) or parking sensors (if equipped). Also do not clean a sensor or camera lens with a sharp or abrasive object that can scratch or damage its surface. Keep the nozzle moving and do not concentrate the water jet on any one area.



CAUTION: Do not aim water hoses directly at windows, door, or hood seals or at electronic modules or exposed cabling.



CAUTION: To avoid corrosive damage that may not be covered by the warranty, rinse away any road salt from the underside of the vehicle, wheel wells, and brakes. After cleaning the vehicle, dry the brakes by going on a short drive and applying the brakes multiple times.



CAUTION: Avoid using tight-napped or rough cloths, such as washing mitts. A high-quality microfiber cleaning cloth is recommended.



CAUTION: If washing in an automatic car wash, use touchless car washes only. These car washes have no parts (brushes, etc.) that touch the surfaces of Model 3. Using any other type of car wash could cause damage that is not covered by the warranty.



CAUTION: Ensure the wipers are off before washing Model 3 to avoid the risk of damaging the wipers.



CAUTION: Do not use chemical based wheel cleaners or pre-wash products. These can damage the finish on the wheels.



WARNING: Never spray liquid at a high velocity (for example, if using a pressure washer) towards the charge port while Model 3 is charging. Failure to follow these instructions can result in serious injury or damage to the vehicle, charging equipment, or property.

Cleaning the Interior

Frequently inspect and clean the interior to maintain its appearance and to prevent premature wear. If possible, immediately wipe up spills and remove marks. For general cleaning, wipe interior surfaces using a soft cloth (such as microfiber) dampened with a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use). To avoid streaks, dry immediately with a soft lint-free cloth.

Interior Glass

Do not scrape, or use any abrasive cleaning fluid on glass or mirrored surfaces. This can damage the reflective surface of the mirror and the heating elements in the rear window.

Airbags

Do not allow any substance to enter an airbag cover. This could affect correct operation.

Dashboard and Plastic Surfaces

Do not polish the upper surfaces of the dashboard. Polished surfaces are reflective and could interfere with your driving view.

Polyurethane Seats

Wipe spills as soon as possible using a soft cloth moistened with warm water and non-detergent soap. Wipe gently in a circular motion. After cleaning, allow the seats to air dry.

Be careful with dyes, such as from clothing or denim, that come into contact with the seats. Dyes can diffuse into the seat material over time and cause staining.



CAUTION: Aftermarket, non-Tesla seat covers may inhibit the sensitivity of seat sensors and may cause staining or damage.

Cloth Seats

Wipe spills as soon as possible using a soft cloth moistened with warm water and non-detergent soap. Wipe gently in a circular motion. Then wipe dry using a soft, lint-free cloth. Vacuum the seats as needed to remove any loose dirt.

Carpets

Avoid over-wetting carpets. For heavily soiled areas, use a diluted upholstery cleaner.

Seat Belts

Extend the belts to wipe. Do not use any type of detergent or chemical cleaning agent. Allow the belts to dry naturally while extended, preferably away from direct sunlight.

Touchscreen

Clean the touchscreen using a soft lint-free cloth specifically designed to clean monitors and displays. Do not use cleaners (such as a glass cleaner) and do not use a wet wipe or a dry statically-charged cloth (such as a recently washed microfiber). To wipe the touchscreen without activating buttons and changing settings, you can enable Screen



Clean Mode. Touch **Controls > Display > Screen Clean Mode**. The display darkens to make it easy to see dust and smudges. To exit Screen Clean Mode, press and hold **HOLD TO EXIT**.

Chrome and Metal Surfaces

Polish, abrasive cleaners or hard cloths can damage the finish on chrome and metal surfaces.

Cautions for Interior Cleaning



CAUTION: Using solvents (including alcohol), bleach, citrus, naphtha, or silicone-based products or additives on interior components can cause damage.



CAUTION: Statically-charged materials can cause damage to the touchscreen.



WARNING: If you notice any damage on an airbag or seat belt, contact Tesla immediately.



WARNING: Do not allow any water, cleaners, or fabric to enter a seat belt mechanism.



WARNING: Exposure to chemical cleaners can be hazardous and can irritate eyes and skin. Read and observe the instructions provided by the manufacturer of the chemical cleaner.

Polishing, Touch Up, and Body Repair

To preserve the cosmetic appearance of the body, you can occasionally treat the paint surfaces with an approved polish containing:

- Very mild abrasive to remove surface contamination without removing or damaging the paint.
- Filling compounds that fill scratches and reduce their visibility.
- Wax to provide a protective coating between the paint and environmental elements.

Regularly inspect the exterior paint for damage. Treat minor chips and scratches using a paint touch-up pen (available for purchase from Tesla). Use the touch-up pen after washing but before polishing or waxing.

Repair rock chips, fractures or scratches. Refer to <https://www.tesla.com/support/body-shop-support> for more information on repair locations and available services.



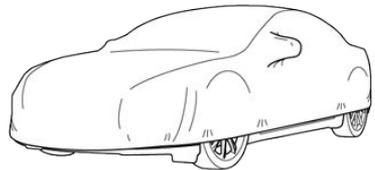
CAUTION: Do not use cutting pastes, color restoration compounds, or polishes containing harsh abrasives. These can scour the surface and permanently damage the paint.



CAUTION: Do not use chrome polish or other abrasive cleaners.

Using a Car Cover

To preserve the cosmetic appearance of the body when Model 3 is not being used, use a genuine Tesla car cover. Car covers can be purchased from Tesla. See [Parts and Accessories on page 217](#).



CAUTION: Use only a Tesla-approved car cover when Model 3 is plugged in. Using a non-Tesla car cover can prevent the Battery from being adequately cooled during charging.

Floor Mats

To extend the life of your carpet and make them easier to clean, use genuine Tesla floor mats (see [Parts and Accessories on page 217](#)). Maintain floor mats by regularly cleaning them and checking that they are properly attached. Replace floor mats if they become excessively worn.



Cleaning



WARNING: To avoid potential interference with a foot pedal, ensure that the driver's floor mat is securely fastened, and never place an additional floor mat on top of it. Floor mats should always rest on top of the vehicle carpeting surface and not on another floor mat or other covering.



Checking and Cleaning Wiper Blades

Periodically clean the edge of the wiper blades and check the rubber for cracks, splits, and roughness. If damaged, replace the blade immediately to prevent damage to the glass and improve visibility.

Contaminants on the windshield, or on the wiper blades, can reduce the effectiveness of the wipers. Contaminants include ice, wax spray from car washes, washer fluid with bug and/or water repellent, bird droppings, tree sap, and other organic substances.

Follow these guidelines for cleaning:

- Clean the windshield and wiper blades using washer fluid, isopropyl (rubbing) alcohol, or non-abrasive glass cleaner approved for use on automotive glass and rubber. Inappropriate products can cause damage or smears, and create glare on the windshield.
- Lift the wiper arm a short distance away from the windshield, just far enough to access the wiper blade. Do not lift a wiper arm beyond its intended position.

If the wipers remain ineffective after cleaning, replace the wiper blades.

Replacing Wiper Blades

For optimum performance, replace the wiper blades at least once a year.

NOTE: Only install replacement blades that are identical to the original blades. Using inappropriate blades can damage the wiper system and windshield.

To replace the wiper blades:

1. Shift into Park and turn off the wipers.
2. Touch **Controls** > **Service** > **Wiper Service Mode** > **ON** to move the wipers to the service position.
3. Lift the wiper arm a short distance away from the windshield, just far enough to access the wiper blade.



CAUTION: Wiper blades do not lock into a lifted position. Do not lift a wiper arm beyond its intended position.

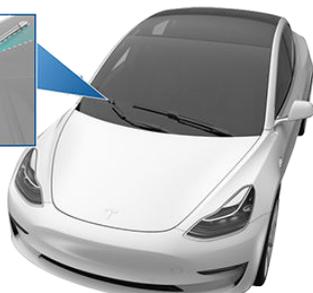
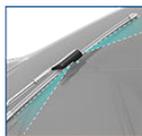
4. Place a towel between the wiper arm and windshield to avoid scratching or cracking the windshield.
5. Hold the wiper arm and press the locking tab while sliding the blade down the arm.



6. Align the new wiper blade on the wiper arm and slide it toward the end of the wiper arm until it locks into place.
7. Turn Wiper Service Mode off to return the wipers to their normal position.

Cleaning Washer Jets

If a windshield washer becomes blocked, use a thin strand of wire to clear any blockages from the nozzles.



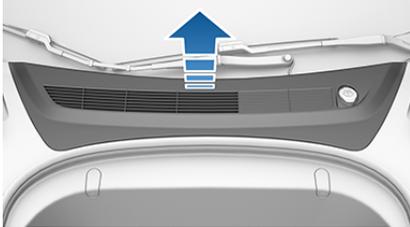
WARNING: Do not operate the washers while cleaning Model 3. Windshield washer fluid can irritate eyes and skin. Read and observe the washer fluid manufacturer's instructions.



Removing the Maintenance Panel

To check fluid levels, remove the maintenance panel:

1. Open the hood.
2. Pull the maintenance panel upward to release the clips that hold it in place.



3. If checking the Battery coolant, remove the cabin intake trim panel by pulling it upwards to release the clips that hold it in place.



CAUTION: The maintenance panel protects the front trunk from water. When re-attaching, make sure it is fully seated.

Checking Battery Coolant

Your Battery coolant should not need to be replaced for the life of your vehicle under most circumstances. However, if the quantity of fluid in the cooling system drops below the recommended level, the touchscreen displays a warning message. Stop driving Model 3 as soon as safety permits and contact Tesla.

Fluid Level Check

DO NOT REMOVE THE FILLER CAP AND DO NOT ADD FLUID. Doing so can result in damage not covered by the warranty.

Do Not Top Up Battery Coolant



WARNING: Battery coolant can be hazardous and can irritate eyes and skin. Under no circumstances should you remove the filler cap and/or add coolant. If the touchscreen warns you that the fluid level is low, contact Tesla immediately.

To maximize the performance and life of the Battery, the cooling system uses a specific mixture of G-48 ethylene-glycol coolant (HOAT). Contact Tesla for more specific information about the coolant.

Checking Brake Fluid



WARNING: Contact Tesla immediately if you notice increased movement of the brake pedal or a significant loss of brake fluid. Driving under these conditions can result in extended stopping distances or complete brake failure.



A red brake indicator on the touchscreen alerts you if the quantity of fluid in the brake reservoir drops below the recommended level. If it displays while driving, stop as soon as safety permits by gently applying the brakes. Do not continue driving. Contact Tesla immediately.

Topping Up the Brake Fluid

Do not top up your brake fluid. The following instructions are provided for information purposes and future reference only:

1. Clean the filler cap before removing it to prevent dirt from entering the reservoir.
2. Unscrew the cap and remove it.
3. Top up the reservoir to the **MAX** mark using the appropriate brake fluid.
4. Replace the filler cap, ensuring it is fully secured.



WARNING: Only use new fluid from a sealed air-tight container. Never use previously used fluid or fluid from a previously opened container—fluid absorbs moisture which decreases braking performance.



WARNING: Brake fluid is highly toxic. Keep containers sealed and out of the reach of children. In the event of accidental consumption, seek medical attention immediately.



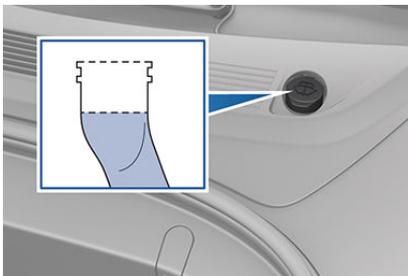
CAUTION: Brake fluid damages painted surfaces. Immediately soak up any spills with an absorbent cloth and wash the area with a mixture of car shampoo and water.

Topping Up Windshield Washer Fluid

The only reservoir into which you can add fluid is the windshield washer fluid reservoir, which is located behind the front trunk. When the level is low, a message displays on the touchscreen.

To top up the washer fluid:

1. Open the hood.
2. Clean around the filler cap before opening it to prevent dirt from entering the reservoir.
3. Open the filler cap.
4. While avoiding spilling, fill the reservoir until the fluid level is visible just below the filler neck. The reservoir has a capacity of 3.2 liters.



5. Wipe up any spills immediately and wash the affected area with water.
6. Replace the filler cap.

NOTE: Some national or local regulations restrict the use of Volatile Organic Compounds (VOCs). VOCs are commonly used as antifreeze in washer fluid. Use a washer fluid with limited VOC content only if it provides adequate freeze resistance for all climates in which you drive Model 3.

NOTE: Local regulations prohibit the use of methanol-based washer fluid. Use ethanol-based washer fluid instead.



CAUTION: Do not add formulated washer fluids that contain water repellent or bug wash. These fluids can cause streaking, smearing, and squeaking or other noises.



WARNING: In temperatures below 4° C, use a washer fluid with antifreeze. In cold weather, using a washer fluid without antifreeze can impair visibility through the windshield.



WARNING: Windshield washer fluid can irritate eyes and skin. Read and observe the instructions provided by the washer fluid manufacturer.



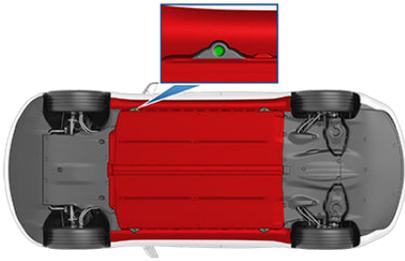
Jacking Procedure

Follow the steps below to lift Model 3. Ensure that any non-Tesla repair facility is aware of these lifting points.

1. Position Model 3 centrally between the lift posts.
2. Position the lift arm pads under the designated body lift points at the locations shown.



WARNING: DO NOT position the lift arm pads under the Battery or side rails, as shown in red.



3. Adjust the height and position of the lift arm pads to ensure that they are correctly located.
4. With assistance, raise the lift to the desired height, ensuring the lift arm pads remain in their correct positions.
5. Engage any lift safety locks. Follow the lift manufacturer's instructions.



WARNING: Never raise Model 3 when the charge cable is connected, even if charging is not in progress.



WARNING: Do not work on an incorrectly supported vehicle. Doing so can cause serious damage, bodily injury, or death.



CAUTION: DO NOT lift from under the Battery or side rails. Place the lift arm pads under the designated body lift points only. The locations shown are the only approved lifting points for Model 3. Lifting at any other points can cause damage. Damage caused by incorrectly lifting Model 3 is not covered by the warranty.



Parts, Accessories, and Modifications

Use only genuine Tesla parts and accessories. Tesla performs rigorous testing on parts to ensure their suitability, safety, and reliability. Purchase these parts from Tesla, where they are professionally installed and where you can receive expert advice about modifications to Model 3. Accessories are available for purchase from Tesla stores or online at www.tesla.com.

NOTE: Some accessories may not be available in your market region.

Tesla is unable to assess parts manufactured by other distributors and therefore accepts no responsibility if you use non-Tesla parts on Model 3.



WARNING: Installing non-approved parts and accessories, or performing non-approved modifications, can affect the performance of Model 3 and the safety of its occupants. Any damage caused by using or installing non-approved parts, or by performing non-approved modifications, is not covered by the warranty.



WARNING: Tesla does not accept liability for death, personal injury or damage that occurs if you use or install non-approved accessories or make non-approved modifications.

Body Repairs

If your Model 3 is in a collision, contact Tesla or a Tesla-approved Body Shop to ensure that it is repaired with genuine Tesla parts. Tesla has selected and approved body shops that meet strict requirements for training, equipment, quality, and customer satisfaction.

Some repair shops and insurance companies might suggest using non-original equipment or salvaged parts to save money. However, these parts do not meet Tesla's high standards for quality, fit and corrosion resistance. In addition, non-original equipment and salvaged parts (and any damage or failures they might cause) are not covered by the warranty.

Using RFID Transponders

When attaching an RFID transponder (used by many automated toll systems) inside Model 3, place the transponder on the right side of the rear view mirror as shown. This ensures best results and minimizes any obstruction to your driving view.

NOTE: You can also attach a weather-proof transponder to the front license plate.





Vehicle Identification Number

You can find the VIN at the following locations:

- Touch the Tesla "T" at the top center of the touchscreen. The popup window displays the VIN.
- Stamped on a plate located at the top of the dashboard. Can be seen by looking through the windshield.



- Printed on the Statutory Plate, located on the door pillar. Can be seen when the front door is open.



- The VIN is stamped into the right side upper b-pillar and can be seen when the interior trim is removed.





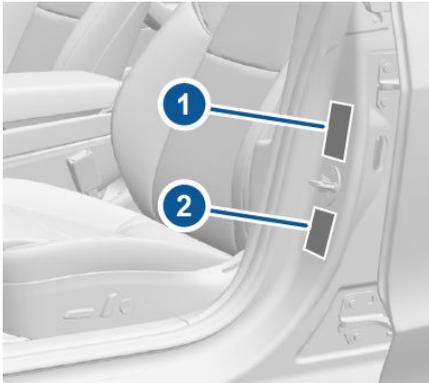
Load Capacity Labeling

It is important to understand how much weight your Model 3 can safely carry. This weight is called the vehicle capacity weight and includes the weight of all occupants, cargo and any additional equipment added to your Model 3 since it was manufactured.

Two labels attached to Model 3 indicate how much weight Model 3 can safely carry.

Both labels are visible on the door pillar when the front door is open.

NOTE: If your Model 3 is fitted with Tesla accessory wheels or tires, your Model 3 may include an additional label indicating that load capacity may differ from what is stated on the label. If this is the case, instead of referring to the label, refer to the Owner's Manual.



1. Tire and Loading Information Label
2. Statutory Plate



WARNING: Overloading Model 3 has an adverse effect on braking and handling, which can compromise your safety or cause damage.



CAUTION: Never load more than 55 lbs (25 kg) in the front trunk. Doing so can cause damage.



CAUTION: Never load more than 130 lbs (60 kg) on the rear load floor (above the lower trunk compartment) or more than 285 lbs (130 kg) in the lower trunk compartment. Doing so can cause damage.



CAUTION: Never store large amounts of liquid in Model 3. A significant spill can cause electrical components to malfunction.

Tire and Loading Information Label

The Tire and Loading Information label provides:

- The maximum number of occupant seating positions.
- The maximum vehicle capacity weight.
- The size of the original tires.
- The cold inflation pressures for the original front and rear tires. These pressures are recommended to optimize ride and handling characteristics.



Never change this label, even if you use different tires in the future.

NOTE: If Model 3 is loaded to its full capacity, double check all tires to ensure they are inflated to their recommended pressure levels.



WARNING: Tire pressures printed on the Tire and Loading Information label **DO NOT APPLY** to towing. When towing, tire pressures must be increased. For information about the tire pressures required when towing, see [Towing and Accessories](#) on page 95.

Statutory Plate

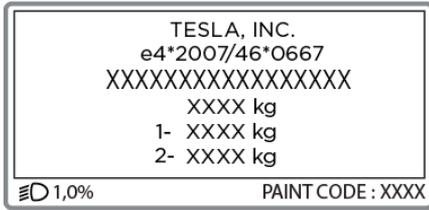
In addition to the VIN, the Statutory Plate provides:

- GVWR - Gross Vehicle Weight Rating. The maximum allowable total mass of Model 3. This is calculated as the weight of Model 3, all passengers, fluids, and cargo.



Vehicle Loading

- GAWR - Gross Axle Weight Rating for the front and rear axles. The GAWR is the maximum distributed weight that each axle can support.



CAUTION: To prevent damage, never load Model 3 so that it is heavier than GVWR or exceeds the individual GAWR weights.

Calculating Load Limits

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg” on the “Tire and Loading Information” label.
2. Determine the combined weight of all occupants that will ride in the vehicle.
3. Subtract the combined weight of the occupants from XXX kg (see Step 1).
4. The resulting figure equals the available cargo load capacity. For example, if the “XXX” amount equals 635 kg and there will be five 68 kg passengers in the vehicle, the amount of available cargo capacity is 295 kg (635 - 340 (5 x 68) = 295 kg).
5. Determine the combined cargo weight being loaded on the vehicle. That weight must not exceed the available cargo load capacity calculated in Step 4.



WARNING: Trunks are the preferred places to carry objects. In a collision, or during hard braking and sharp turns, loose items in the cabin could injure occupants.

Example Load Limit Calculations

How much cargo Model 3 can carry depends on the number and weight of passengers. The following calculated load limit examples assume passengers weigh 68 kg. If passengers weigh more or less, available cargo weight decreases or increases respectively.

Table 1. Driver and one passenger

Description	Total
Vehicle capacity weight	433 kg
Subtract occupant weight (2 x 68 kg)	136 kg
Available cargo weight	297 kg

Table 2. Driver and four passengers

Description	Total
Vehicle capacity weight	433 kg
Subtract occupant weight (5 x 68 kg)	340 kg
Available cargo weight	93 kg

The cargo weight should be distributed between the front and rear trunks.



CAUTION: Do not exceed the maximum front trunk load weight of 25 kg.



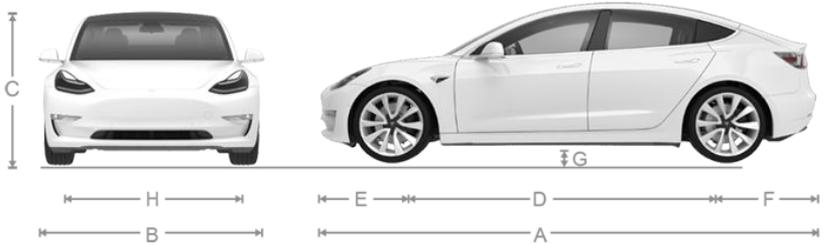
CAUTION: Never load more than 60 kg on the rear load floor (above the lower trunk compartment) or more than 130 kg in the lower trunk compartment. Doing so can cause damage.

Roof Racks

Model 3 supports the use of Tesla-approved roof racks using a Tesla mounting accessory. To install roof racks, you must use this accessory and you must use only roof rack systems that have been approved by Tesla (see [Parts and Accessories on page 217](#)). Failure to do so can cause significant damage.



Exterior Dimensions



A	Overall Length	184.8 in	4,694 mm
B	Overall Width (including mirrors)	82.2 in	2,088 mm
	Overall Width (including folded mirrors)	76.1 in	1,933 mm
	Overall Width (excluding mirrors)	72.8 in	1,849 mm
C	Overall Height - coil suspension	56.8 in	1,443 mm
D	Wheel Base	113.2 in	2,875 mm
E	Overhang - Front	33 in	841 mm
F	Overhang - Rear	39 in	978 mm
G	Ground Clearance - coil suspension	5.5 in	140 mm
H	Track - Front	62.2 in	1,580 mm
	Track - Rear	62.2 in	1,580 mm
*Values are approximate. Dimensions can vary depending on a vehicle's options and various other factors.			

Interior Dimensions

Head Room	Front	40.3 in	1,024 mm
	Rear	37.7 in	958 mm
Leg Room	Front	42.7 in	1,085 mm
	Rear	35.2 in	894 mm



Dimensions and Weights

Shoulder Room	Front Rear	56.3 in 54 in	1,430 mm 1,372 mm
Hip Room	Front Rear	53.4 in 52.4 in	1,356 mm 1,331 mm

Cargo Volume

Total enclosed cargo volume	15 cu ft (425 L)
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Weights

Curb Weight* Standard Plus Battery, Single Motor	3,552 lbs	1,611 kg
Curb Weight* Mid-Range Battery, Single Motor	3,686 lbs	1,672 kg
Curb Weight* Long Range Battery, Single Motor	3,805 lbs	1,726 kg
Curb Weight* Long Range Battery, Dual Motor	4,072 lbs	1,847 kg
Curb Weight* Long Range Battery, Performance Dual Motor	4100 lbs	1,860 kg
GVWR** Standard Plus Battery, Single Motor	4,542 lbs	2,060 kg
GVWR** Mid-Range Battery, Single Motor	4,687 lbs	2,126 kg
GVWR** Long Range Battery, Single Motor	4,806 lbs	2,180 kg
GVWR** Long Range Battery, Dual Motor	4,993 lbs	2,265 kg
GVWR** Long Range Battery, Performance Dual Motor	5,073 lbs	2,301 kg
Gross Vehicle Weight Distribution - Single Motor	Front: 44%	Rear: 56%
Gross Vehicle Weight Distribution - Dual Motor	Front: 46%	Rear: 54%
Gross Axle Weight Rating - Front	2,447 lbs	1,110 kg
Gross Axle Weight Rating - Rear	2,771 lbs	1,257 kg
Towing Capacity (if equipped)	See Towing and Accessories on page 95 .	
*Curb Weight = weight of the vehicle with correct fluid levels, no occupants and no cargo **GVWR = Gross Vehicle Weight Rating		
NOTE: Values are approximate. Weights can vary depending on a vehicle's options.		



Motor(s)

Motor Type	Rear motor: AC permanent magnet synchronous motor, liquid-cooled, with variable frequency drive Front motor: AC induction motor, liquid-cooled, with variable frequency drive
RWD (Rear Motor)	Voltage: 350 Volts Max Power: 239 kW @ 5525 rpm Max Torque: 420 Nm @ 325-5200 rpm
AWD - Base (Front Motor)	Voltage: 335 Volts Max Power: 121 kW @ 8275 rpm Max Torque: 163 Nm @ 125-6375 rpm
AWD - Base (Rear Motor)	Voltage: 335 Volts Max Power: 203 kW @ 6700 rpm Max Torque: 330 Nm @ 325-5500 rpm
AWD Performance (Front Motor)	Voltage: 335 Volts Max Power: 158 kW @ 6622 rpm Max Torque: 240 Nm @ 0-6200 rpm
AWD Performance (Rear Motor)	Voltage: 320 Volts Max Power: 219 kW @ 5075 rpm Max Torque: 420 Nm @ 325-4800 rpm
NOTE: Tested in accordance with ECE R85.	



Transmission

Type	Single speed fixed gear
Gearbox Ratio	9:1

Steering

Type	Rack and pinion with electronic power steering, speed sensitive
Number of turns lock to lock	2.00
Turning Circle (curb to curb)	11.8 meters

Brakes

Type	4-wheel anti-lock braking system (ABS) with Electronic Brake Force Distribution, Integrated Advanced Stability Control and Electronic Accelerator pedal actuated regenerative braking system
Calipers	Front: Four piston fixed Rear: Integrated Electronic Parking Brake Sliding
Rotor Diameter (ventilated)	Front (non-Performance): 12.6"/320 mm Front (Performance): 13.98"/355 mm Rear (non-Performance): 13.2"/335 mm Rear (Performance): 13.2"/335 mm
Front Rotor thickness	New: 0.98"/25 mm Service limit: 0.91"/23 mm
Rear Rotor thickness	New: 0.79"/20 mm Service limit: 0.71"/18 mm
Non-Performance Front Brake Pad Thickness (excluding back plate)	New: 0.393"/10 mm Service limit: 0.110"/2.8 mm
Non-Performance Rear Brake Pad Thickness (excluding back plate)	New: 0.354"/9 mm Service limit: 0.078"/2 mm



Performance Front Brake Pad Thickness (excluding back plate)	New: 0.393"/10 mm Service limit: 0.085"/2.15 mm
Performance Rear Brake Pad Thickness (excluding back plate)	New: 0.393"/10 mm Service limit: 0.071"/1.8 mm
Parking brake	Electrically actuated parking brake integrated into rear caliper



Suspension

Front	Independent, double wishbone, coil spring/telescopic damper, sway bar
Rear	Independent, multi-link, coil spring/telescopic damper

Battery - 12V

Rating	33 amp hour or higher
Voltage and Polarity	12V negative (-) ground

Battery - High Voltage

Type	Liquid-cooled lithium ion (Li-ion)
Temperature Range	Do not expose Model 3 to ambient temperatures above 60° C or below -30° C for more than 24 hours at a time.



Wheel Specifications (Factory)

Wheel Diameter	Location	Width (in)	Offset (mm)
18"	Front/Rear	8.5	40
19"	Front/Rear	8.5	40
20" (Non-Performance brakes)	Front/Rear	8.5	40
20" (Performance brakes)	Front/Rear	8.5	35

Lug Nut Torque	129 lb. ft (175 Nm)
Lug Nut Socket Size	21 mm

NOTE: For instructions on how to jack/lift Model 3, see [Jacking and Lifting on page 216](#).



Tire Specifications (Factory)

Tire Size	Location	Size
18"	Front/Rear	P235/45R18
19"	Front/Rear	P235/40R19
20"	Front/Rear	P235/35R20
20"	Front/Rear	245/35ZR20

Tire pressures vary depending on the type of tires fitted. Refer to the tire pressures printed on the Tire and Loading Information label. This label is located on the center door pillar and is visible when the driver's door is open (see [Maintaining Tire Pressures on page 201](#)).

Winter tires can be purchased from a Tesla service center or may be available for purchase on the Tesla web site.



Understanding Tire Markings

Laws require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire.



1	Tire category. P indicates that the tire is for passenger vehicles.
2	Tire width. This 3-digit number is the width (in millimeters) of the tire from sidewall edge to sidewall edge.
3	Aspect ratio. This 2-digit number is the sidewall height as a percentage of the tread width. So, if the tread width is 205 mm, and the aspect ratio is 50, the sidewall height is 102 mm.
4	Tire construction. R indicates that the tire is of Radial ply construction.
5	Wheel diameter. This 2-digit number is the diameter of the wheel rim in inches.
6	Load index. This 2 or 3-digit number is the weight each tire can support. This number is not always shown.
7	Speed rating. When stated, indicates the maximum speed (in mph) at which the tire can be used for extended periods. Q=99 mph (160 km/h), R=106 mph (170 km/h), S=112 mph (180 km/h), T=118 mph (190 km/h), U=124 mph (200 km/h), H=130 mph (210 km/h), V=149 mph (240 km/h), W=168 mph (270 km/h), Y=186 mph (300 km/h).



Wheels and Tires

8	Tire composition and materials. The number of plies in both the tread area and the sidewall area indicates how many layers of rubber coated material make up the structure of the tire. Information is also provided on the type of materials used.
9	Maximum tire load. The maximum load which can be carried by the tire.
10	Maximum permissible inflation pressure. This pressure should not be used for normal driving.
11	U.S. DOT Tire Identification Number (TIN). Begins with the letters DOT and indicates that the tire meets all federal standards. The next 2 digits/letters represent the plant code where it was manufactured, and the last 4 digits represent the week and year of manufacture. For example, the number 1712 is used to represent the 17th week of 2012. The other numbers are marketing codes used at the manufacturer's discretion. This information can be used to contact consumers if a tire defect requires a recall.
12	Treadwear grade. This number indicates the tire's wear rate. The higher the treadwear number is, the longer it should take for the tread to wear down. A tire rated at 400, for example, lasts twice as long as a tire rated at 200.
13	Traction grade. Indicates a tire's ability to stop on wet roads. A higher graded tire should allow you to stop your vehicle in a shorter distance than a tire with a lower grade. Traction is graded from highest to lowest as AA, A, B, and C.
14	Temperature grade. The tire's resistance to heat is grade A, B, or C, with A indicating the greatest resistance. This grading is provided for a correctly inflated tire, which is being used within its speed and loading limits.



Tesla Roadside Assistance is available to you, 24 hours a day, 365 days a year, for the duration of your warranty period.

When contacting Tesla Roadside Assistance, please provide:

- The Vehicle Identification Number (VIN). The VIN is displayed when you touch the Tesla "T" at the top of the touchscreen. The VIN can also be seen on the upper dashboard by looking through the driver's side of the windshield.
- Your exact location.
- The nature of the problem.

Tesla Roadside Assistance is available to speak with roadside service professionals 24/7/365 to answer any questions and explain the proper procedure for transporting your Model 3.

NOTE: For a detailed description of Tesla's Roadside Assistance policy, go to the support page on the Tesla web site for your region.

Regional Phone Number(s)

Jordan: [0800-22216](tel:0800-22216)

United Arab Emirates: [800035704364](tel:800035704364)

United Kingdom: [0800 756 9960](tel:08007569960)

NOTE: The phone number is also available by touching the Tesla "T" at the top center of the touchscreen.



Country-specific Phone Numbers

NOTE: The phone number is also available by touching the Tesla "T" at the top center of the touchscreen.

Country	Phone Number
Andorra	Toll: +31 13 799 9501
Austria	Local: 07208 80470
Belgium	Local: 03 808 17 82
Bulgaria	Local: 024 925 455
Croatia	Local: 017 776 417
Cyprus	Local: 022 030915
Czech Republic	Local: 0228 882 612
Denmark	Local: 898 869 84
Estonia	Local: 0880 3141
Finland	Local: 075 3263818
France	Local: 09 70 73 08 50
Germany	Local: 08921 093303
Gibraltar	Toll: +31 13 799 9513
Greece	Local: 02111 984867
Hungary	Local: 01 700 8549
Iceland	Toll: +31 13 799 9516
Ireland	Local: 01 513 4727
Israel	Local: +97239150724
Italy	Local: 069 480 1252
Jordan	Local: 06 5803144
Latvia	Local: 066 088 114
Liechtenstein	Toll: +31 13 799 9520
Lithuania	Local: 067 859 774
Luxembourg	Local: 27 86 14 16
Malta	Local: 02778 1126
Monaco	Toll: +31 13 799 9524
Netherlands	Local: 013 799 9525



Country	Phone Number
Norway	Local: 23 96 02 85
Poland	Toll: 022 307 26 45
Portugal	Local: 30 880 5628
Romania	Local: 0316 301 257
San Marino	Toll: +31 13 799 9531
Slovakia	Local: 023 300 26 43
Slovenia	Local: 08 288 00 33
Spain	Local: 911 98 26 24
Sweden	Local: 0775 88 80 36
Switzerland	Local: 061 855 30 21
UK	Local: 0162 845 0660
United Arab Emirates	Local: 045217699



Model 3 is equipped with eCall, an emergency call system that automatically contacts emergency responders and communicates eCall standard information to a Public Safety Answering Point (PSAP) in the event of a serious accident or emergency.

NOTE: eCall emergency call services are not available in all regions.

NOTE: Information communicated to PSAP includes vehicle type, number of passengers detected in the vehicle, GPS, and the VIN.

NOTE: eCall only operates over a cellular network with an adequate signal.

Using eCall

eCall activates automatically if airbags deploy or a severe collision is detected. You can also activate it manually by pressing the SOS button on the overhead console.



NOTE: Manual activation is useful to report a serious accident or to call for help if an occupant in Model 3 requires immediate attention (such as a heart attack).

NOTE: Tesla is not affiliated with eCall services. Do not use eCall to contact Tesla (such as when requesting Roadside Assistance), as the call goes directly to third-party emergency responders. Tesla is not responsible to pay for or reimburse any services dispatched through eCall.

Canceling eCall

eCall can only be canceled when it is manually activated. To cancel eCall, press **Cancel Call** on the touchscreen. The ability to cancel is available for the stated countdown duration on the touchscreen. After countdown, the call can only be canceled by the answering agent.



DO NOT TRANSPORT WITH WHEELS ON THE GROUND

The rear motor in Model 3 generates power when the wheels spin. Always transport Model 3 with all four tires off the ground. Ensure that the tires are unable to spin at any time during transport.



WARNING: NEVER TRANSPORT YOUR VEHICLE WITH THE TIRES IN A POSITION WHERE THEY CAN SPIN. DOING SO CAN LEAD TO SIGNIFICANT DAMAGE AND OVERHEATING. IN RARE CASES EXTREME OVERHEATING MAY CAUSE THE SURROUNDING COMPONENTS TO IGNITE.



Do not transport Model 3 using any method that is not specified by Tesla. Adhere to the instructions provided in the following sections and observe all warnings and cautions provided. Damage caused by improper transporting of your vehicle is not covered by the warranty.

NOTE: Tesla is not liable or responsible for reimbursing services not dispatched through Tesla Roadside Assistance.

Approved Methods for Transporting

NOTE: The tires are allowed to rotate slowly (under 5 km/h) and for a very short distance (less than 10 meters) only when Transport Mode is enabled (see [Activate Transport Mode on page](#)) while the vehicle is being winched onto a flatbed truck or pulled out of a parking space for repositioning. Exceeding these boundaries can lead to significant damage and overheating that is not covered by the warranty.

A flatbed truck or comparable transport vehicle is the recommended method of transporting Model 3. The vehicle can face either direction when using a flatbed.



If Model 3 must be transported without a flatbed truck, then wheel lifts and dollies must be used to ensure that all four wheels are off of the ground. This method may only be used for a maximum of 55 km, and must not exceed the manufacturer speed rating of the dollies. With this method, Tesla recommends the vehicle facing forward so that the front wheels are lifted and the rear wheels are on dollies.



CAUTION: Enable Transport Mode (see [Activate Transport Mode on page](#)) before winching Model 3 onto a flatbed truck (see [Pull onto the Flatbed Truck on page](#)). If Transport Mode is not available or the touchscreen is not accessible, self-loading dollies or tire skates must be used to load the vehicle into the approved transportation position. Tesla is not responsible for any damage caused by or during the transport of Model 3, including personal property damage or damage caused by using self-loading dollies or tire skates.



Instructions for Transporters



WARNING: Model 3 is equipped with high voltage components that may be compromised as a result of a collision (see [High Voltage Components on page 189](#)). Before transporting Model 3, it is important to assume these components are energized. Always follow high voltage safety precautions (wearing personal protection equipment, etc.) until emergency response professionals have evaluated the vehicle and can accurately confirm that all high voltage systems are no longer energized. Failure to do so may result in serious injury.



CAUTION: If the electrical system is not working, and you therefore cannot use the touchscreen to activate Transport Mode, use self-loading dollies or tire skates. Before doing so, always check the manufacturer's specifications and recommended loading capacity.

Activate Transport Mode

Transport Mode keeps the parking brake disengaged while winching Model 3 onto a flatbed truck. When active, Transport Mode displays a message indicating that the vehicle will remain free-rolling. The following are required to enable Transport Mode:

- 12V power is required. You are unable to use the touchscreen to activate Transport Mode if Model 3 has no power.
- Model 3 must detect a key. Transport Mode is available only when a key is detected.

To activate Transport Mode:

1. Ensure the vehicle is in Park.
2. Chock the tires or otherwise ensure Model 3 is secure.
3. Press and hold the brake pedal, then on the touchscreen, touch **Controls** > **Service** > **Towing**. The touchscreen displays a message reminding you how to properly transport Model 3.
4. Press and hold the **Transport Mode** button until it turns blue. Model 3 is now free-rolling and can slowly be rolled (no faster than walking speed) or winched.

To cancel Transport Mode, shift Model 3 into Park.

NOTE: If Model 3 loses 12V power after Transport Mode is enabled, Transport Mode will cancel and the parking brake will be re-applied.

Pull onto the Flatbed Truck

NOTE: If Model 3 has no 12V power, you need an external 12V power supply to open the hood or use the touchscreen. See [If Vehicle Has No Power on page](#) .



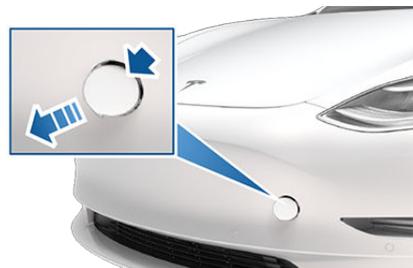
CAUTION: To avoid damage, only pull the vehicle onto a flatbed truck using a properly-installed tow eye. Using the chassis, frame, or suspension components to pull the vehicle can result in damage.

1. Locate the tow eye. The tow eye is located under the carpet in the front trunk.



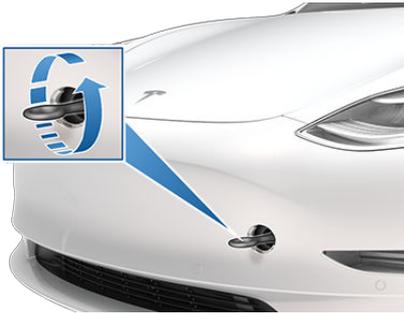
2. Release the tow eye cover by pressing firmly on its top right perimeter until it pivots inward, then gently pulling the raised section toward you.

NOTE: The tow eye cover is connected to the vehicle's black negative (-) terminal.





3. Fully insert the tow eye into the opening, then turn it **counter-clockwise** until securely fastened.



4. Attach the winch cable to the tow eye.



CAUTION: Before pulling, make sure the tow eye is securely tightened.

5. Activate Transport Mode.

6. Pull Model 3 slowly onto the flatbed truck.



If Vehicle Has No Power

If Model 3 has no 12V power, perform the following steps to open the hood or jump start the auxiliary 12V battery.

Jump Starting the 12V Battery



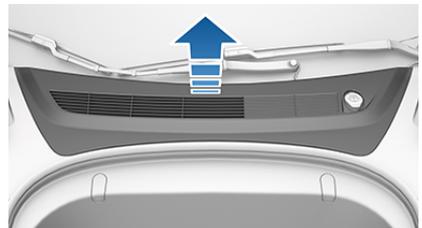
CAUTION: Model 3 cannot be used to jump start another vehicle. Doing so can result in damage.

NOTE: If jump starting Model 3 using another vehicle, refer to that vehicle manufacturer's instructions. The following instructions assume an external 12V power supply (such as a portable jump starter) is used.



CAUTION: Avoid short circuits when jump starting Model 3. Connecting cables to the wrong terminals, touching leads together, etc., can result in damage to Model 3.

1. Open the hood (see [Opening Hood with No Power on page 23](#)).
2. Remove the maintenance panel by pulling it upwards to release the trim clips that hold it in place.



Secure the Tires

The vehicle's tires must be secured onto the truck using the eight-point tie-down method.

- Ensure any metal parts on the tie-down straps do not contact painted surfaces or the face of the wheels.
- Do not place tie-down straps over body panels or through the wheels.

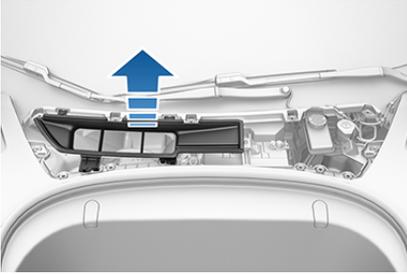


CAUTION: Attaching the tie-down straps to the chassis, suspension or other parts of the vehicle's body may cause damage.



Instructions for Transporters

3. Remove the cabin intake trim panel by pulling it upwards to release the trim clips that hold it in place.

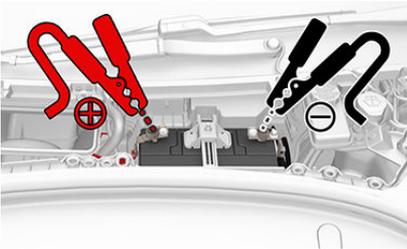


4. Connect the 12V power supply's red positive (+) cable to the red positive (+) terminal on the 12V battery.



CAUTION: To avoid damaging Model 3, do not allow the positive cable to contact other metal components, such as the battery tie-down bracket.

5. Connect the 12V power supply's black negative (-) cable to the black negative (-) terminal on the 12V battery.



6. Turn on the external power supply (refer to the manufacturer's instructions). Touch the touchscreen to wake it up.

NOTE: It may take several minutes to receive enough power to wake up the touchscreen.

7. When external 12V power is no longer required, disconnect both cables from the terminals on the 12V battery, beginning with the black negative (-) cable.

8. Replace the cabin intake trim panel by placing it back in its original location and pressing down until it is secure.

9. Replace the maintenance panel by placing it back in its original location and pressing down until it is secure.

10. Close the hood.



But wait, there's more! Below is a list of the Easter Eggs that have been discovered so far and how to access them. To access all discovered Easter Eggs, touch the Toybox icon in the application launcher (see [Touchscreen Overview on page 6](#)).

For This...	Do This...
Arcade	Feeling nostalgic? While in Park, access games from the app launcher or your Easter Egg tray then select a game from the menu to play. Note that, depending on the game, you may need to use your steering wheel buttons or a USB controller to play.
Santa Mode	"What have you been longing for?" Enjoy the holidays year-round with this one! Simply initiate a voice command (see Using Voice Commands on page 175) and say "Ho Ho Ho". Or, if you are feeling extra sour, you can say "Ho Ho Ho Not Funny" instead.
Rainbow Road	Need more cowbell? Visit Rainbow Road by moving the gear lever fully down four times in quick succession while Autosteer is enabled.
Sketchpad	Triple-tap the Tesla "T" (top center of the touchscreen) and channel your inner Picasso. Show us what you got! Touch Publish to submit your artistic compositions to Tesla for critiquing.
Mars	Press and hold the Tesla "T" (top center of the touchscreen) then enter mars in the access code popup. The map shows your Model 3 as a rover on the Martian landscape, and the About Your Tesla box displays SpaceX's interplanetary spaceship.
The Answer to the Ultimate Question of Life, The Universe, and Everything	Rename your car to 42 (see Naming Your Vehicle on page 152) and notice the new name of your Model 3.
Romance Mode	You can't roast chestnuts by an open fire in your car, but you can still cozy up with your loved ones by this virtual fireplace. While in Park, access Romance Mode from your Easter Egg tray. Queue the music and get your romance on!
Emissions Testing Mode	Holiday fun can come in surprising ways. Access Emissions Testing Mode from your Easter Egg tray, then select your preferred fart style and a target seat. Activate by pressing the left scroll wheel button when you're ready to "release" your prank.
TRAX	It's never too late to follow your dream of becoming a world-famous DJ. With TRAX, you can turn your vehicle into your own personal music studio. While in Park, choose from an array of instruments and unique sounds to create the next hit song. Access TRAX through your Easter Egg tray on the touchscreen and get jamming. Microphone and headset not included (depending on vehicle configuration and market region, this may not be available on your vehicle).



Document Applicability

Owner information is updated regularly to reflect updates to your vehicle. However, in some cases, recently released features may not be described. To display information about recently released features, view the Release Notes on the touchscreen. Release Notes are displayed on the touchscreen after a software update, and can be displayed at any time by touching the Tesla "T" at the top of the touchscreen, then touching the Release Notes link. Release notes can also be accessed by navigating to **Controls > Software**. If information related to how to use the touchscreen conflicts with information in the Release Notes, the Release Notes take precedence.

Illustrations

Illustrations are provided for demonstration purposes only. Depending on vehicle options, software version, region of purchase, and specific settings, your vehicle may appear slightly different. Although the owner information is applicable to both right-hand drive and left-hand drive vehicles, many illustrations show only left-hand drive vehicles. However, the essential information that the illustrations are providing is correct.

Feature Availability

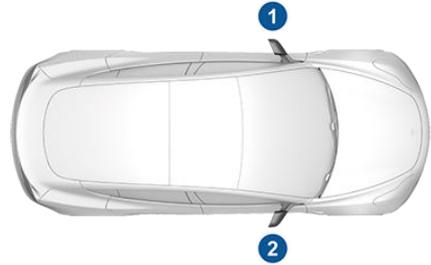
Some features are available only on some vehicle configurations and/or only in specific market regions. Options or features mentioned in the owner information does not guarantee they are available on your specific vehicle.

Errors or Inaccuracies

All specifications and descriptions are known to be accurate at time of publishing. However, because continuous improvement is a goal at Tesla, we reserve the right to make product modifications at any time. To communicate any inaccuracies or omissions, or to provide general feedback or suggestions regarding the quality of this owner information, send an email to OwnersManualFeedback@Tesla.com.

Location of Components

Owner information may specify the location of a component as being on the left or right side of the vehicle. As shown, left (1) and right (2) represent the side of the vehicle when sitting inside.



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TESLA



TESLA MOTORS

TESLA ROADSTER



MODEL S

MODEL X

MODEL 3

MODEL Y

T E S L A



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Vehicle Telematics

Model 3 is equipped with electronic modules that monitor and record data from various vehicle systems, including the motor, Autopilot components, Battery, braking and electrical systems. The electronic modules record information about various driving and vehicle conditions, including braking, acceleration, trip and other related information regarding your vehicle. These modules also record information about the vehicle's features such as charging events and status, the enabling/disabling of various systems, diagnostic trouble codes, VIN, speed, direction and location.

The data is stored by the vehicle and may be accessed, used and stored by Tesla service technicians during vehicle servicing or periodically transmitted to Tesla wirelessly through the vehicle's telematics system. This data may be used by Tesla for various purposes, including, but not limited to: providing you with Tesla telematics services; troubleshooting; evaluation of your vehicle's quality, functionality and performance; analysis and research by Tesla and its partners for the improvement and design of our vehicles and systems; to defend Tesla; and as otherwise may be required by law. In servicing your vehicle, Tesla can potentially resolve issues remotely simply by reviewing your vehicle's data log.

Tesla's telematics system wirelessly transmits vehicle information to Tesla on a periodic basis. The data is used as previously described and helps ensure the proper maintenance of your vehicle. Additional Model 3 features may use your vehicle's telematics system and the information provided, including features such as charging reminders, software updates, and remote access to, and control of, various systems of your vehicle.

Tesla does not disclose the data recorded in your vehicle to any third party except when:

- An agreement or consent from the vehicle's owner (or the leasing company for a leased vehicle) is obtained.
- Officially requested by the police or other authorities.
- Used as a defense for Tesla.

- Ordered by a court of law.
- Used for research purposes without disclosing details of the vehicle owner or identification information.
- Disclosed to a Tesla affiliated company, including their successors or assigns, or our information systems and data management providers.

For additional information regarding how Tesla processes data collected from your vehicle, please review Tesla's privacy policy at <http://www.tesla.com/about/legal>.

Data Sharing

For quality assurance and to support the continuous improvement of advanced features such as Autopilot, Tesla measures road segment data of all participating vehicles. All Tesla vehicles can learn from the experience of the billions of miles that Tesla vehicles have driven. Although Tesla shares this data with partners that contribute similar data, the data does not include any personally identifiable information about you or your vehicle. To allow data sharing, touch **Controls > Safety & Security > Data Sharing**, touch the **Yes** buttons to confirm that you agree to allow Tesla to collect the associated type of data, then submit your response.

For additional information regarding how Tesla processes data collected from your vehicle, please review Tesla's privacy policy at <http://www.tesla.com/about/legal>.

NOTE: Although Model 3 uses GPS in connection with driving and operation, as discussed in this owner's manual, Tesla does not record or store vehicle-specific GPS information, except the location where a crash occurred. Consequently, Tesla is unable to provide historical information about a vehicle's location (for example, Tesla is unable to tell you where Model 3 was parked/traveling at a particular date/time).

Quality Control

You might notice a few km on the odometer when you take delivery of your Model 3. This is a result of a comprehensive testing process that ensures the quality of your Model 3.



The testing process includes extensive inspections during and after production. The final inspection takes place at Tesla and includes a road test conducted by a technician.



Contacting Tesla

For detailed information about your Model 3, go to www.tesla.com, and log on to your Tesla Account, or sign up to get an account.

If you have any questions or concerns about your Model 3, call Tesla. To find the number for your region, go to www.tesla.com, select your region at the bottom of the page, then view contact information.

NOTE: You can also use voice commands to provide feedback to Tesla. Say "Note", "Report", "Bug note", or "Bug report" (in the English language) followed by brief comments in your language of choice. Model 3 takes a snapshot of its systems, including your current location, vehicle diagnostic data, and screen captures of the touchscreen. Tesla periodically reviews these notes and uses them to continue improving Model 3.



FCC and IC Certification

Component	Manufacturer	Model	Operating Frequency (MHz)	FCC ID	IC ID
Pillar Endpoint	Tesla	1089773	13.56	2AEIM-10897773	20098-1089773
		1089773E	2400-2483.5	2AEIM-1089773E	20098-1089773E
Center Console	Tesla	1089774	13.56	2AEIM-1089774	20098-1089774
			2400-2483.5		
Fascia Endpoint	Tesla	1089775	2400-2483.5	2AEIM-1089775	20098-1089775
Key fob	Tesla	1133148	2400-2483.5	2AEIM-1133148	20098-1133148
TPMS	Continental	TIS-01	433.92	KR5TIS-01	7812-TIS01
Radar	Continental	ARS 4-B	76000-77000	OAYARS4B	4135A-ARS4B
Homelink	Gentex	ADHL5C	286-440MHz	NZLADHL5C	4112A-ADHL5C
CarPC	Tesla	1527963	--	YZP-RBHP-B216C	RBHP-B216C
				R17LE940B6NA	5131A-LE940B6NA

The devices 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.



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.

NOTE: FCC Radiation exposure: All equipment complies with FCC and IC RSS-102 radiation exposure limits for an uncontrolled environment.



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

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
Security Controller	2.4 GHz	4.93 dBm output	PCB Antenna, in center console
Security Controller	11.56 MHz	n/a (magnetic field)	PCB Antenna, in center console
Rear Fascia Endpoint	2.4 GHz	3.74 dBm output	PCB Antenna, behind rear fascia
Pillar Endpoint	2.4 GHz	4.89 dBm output	PCB Antenna, behind the B-pillar glass
Pillar Endpoint	13.56 MHz	n/a (magnetic field)	PCB Antenna, behind the B-pillar glass
TPMS Sensor	433.9 MHz	2.5 mW	Each wheel
TPMS Module/ Antenna	433.9 MHz (receive)	n/a (receive only)	Left side C-pillar
FM	87-108 MHz	n/a (receive only)	Rear Window
DAB	174-241 MHz	n/a (receive only)	Rear Window

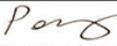


Description	Frequency Band	Power Level	Antenna Location
Homelink	433.9 MHz	10 mW	Above front bumper beam
Bluetooth	2402-2480 MHz	2.5 mW max.	B-header In the middle ceiling
GSM 900	885-915 930-960 MHz	2 W	Transmit - Right side mirror Receive - Right side mirror
GSM 1800	1710-1785 1805-1880 MHz	1 W	Transmit - Right side mirror Receive - Right side mirror
WCDMA (Band 8)	909-915 954-960 MHz	250 mW	Transmit - Right side mirror Receive - Right side mirror
WCDMA (Band 1/3)	1920-1980 2110-2170 MHz	250 mW	Transmit - Right side mirror Receive - Right side mirror
LTE (band 7/8)	2500-2570, 909-915 MHz 2620-2690, 954-960 MHz	200 mW	Transmit - Right side mirror Receive - Right side mirror
LTE (band 20/28)	832-862,703-748 MHz 791-821, 758-803 MHz	200 mW	Transmit - Right side mirror Receive - Right side mirror
LTE (band 1/3)	1940-1965, 1735-1765 MHz 2130-2155, 1830-1860 MHz	200 mW	Transmit - Right side mirror Receive - Right side mirror

EU

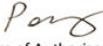
The devices described previously have been evaluated against the essential requirements of the 2014/53/EU and 2011/65/EU Directive.

**EU Declaration of Conformity**

Manufacturer Name: (Or His authorized representative)	TESLA, Inc.
Manufacturer Address: (Or His authorized representative)	3500 Deer Creek Road, Palo Alto, CA 94304, USA
Declare under our sole responsibility that the product	
Product Type/Description:	Car Computer
Model:	1527963-01
Trade Name:	TESLA
Product Identification Element: (if any)	Serial number: All SW version: Production SW
Is in conformity with the following standards or other normative documents	
Test standards	
RF spectrum use (RED 2014/53/EU art. 3.2) EN 300 328 V2.1.1 + EN 301 893 V2.1.1 + EN 300 440 V2.2.1 + EN 301 511 V12.5.1 + EN 301 908-1 V11.1.1 + EN 301 908-2 V11.1.2 + EN 301 908-13 V11.1.2	
EMC (RED 2014/53/EU art. 3.1b) EN 301 489-1 V2.1.1 + EN 301 489-17 V3.1.1 + EN 301 489-3 V2.1.1 + EN 301 489-52 V1.1.0	
Health & Safety (RED 2014/53/EU art. 3.1a) EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN 62311:2008	
RoHS Directive, 2011/65/EU EN 50581:2012	
<p>We hereby declare that [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirement of Directive 2014/53/EU and Directive 2011/65/EU</p> <p>The conformity assessment procedure referred to in Article 17 and detailed in Annex [III] of Directive 2014/53/EU</p> <p>The Technical documentation relevant to the above equipment will be held at:</p>	
Name:	PENG ZHANG
Title:	Certification Engineer
Address:	3500 Deer Creek Road, Palo Alto, CA 94304, USA
Date: 11/21/2018	 Signature of Authorized person



EU Declaration of Conformity

Manufacturer Name: (Or His authorized representative)	TESLA, Inc.
Manufacturer Address: (Or His authorized representative)	3500 Deer Creek Road, Palo Alto, CA 94304, USA
Declare under our sole responsibility that the product	
Product Type/Description:	B-pillar Endpoint, Key Fob, Fascia Endpoint, Security Controller
Model:	1089773E, 1133148, 1089775, 1089774
Trade Name:	TESLA
Product Identification Element: (if any)	Serial number: All SW version: Production SW
Is in conformity with the following standards or other normative documents	
Test standards	
<p>RF spectrum use (RED 2014/53/EU art. 3.2) EN 300 328 V2.1.1 + EN 300 330 V2.1.1</p> <p>EMC (RED 2014/53/EU art. 3.1b) EN 301 489-1 V2.2.0 + EN 301 489-17 V3.2.0 + EN 301 489-3 V2.1.1</p> <p>Health & Safety (RED 2014/53/EU art. 3.1a) EN 60950-1:2006 + A11:2009 + A1:2010 + AC:2011 + A2:2013 EN 62479:2010</p> <p>RoHS Directive, 2011/65/EU EN 50581:2012</p>	
<p>We hereby declare that [all essential radio test suites have been carried out and that] the above named products are in conformity to all the essential requirement of Directive 2014/53/EU.</p> <p>The conformity assessment procedure referred to in Article 17 and detailed in Annex [III] of Directive 2014/53/EU</p> <p>The Technical documentation relevant to the above equipment will be held at:</p>	
Name:	Peng Zhang
Title:	Certification Engineer
Address:	3500 Deer Creek Road, Palo Alto, CA 94304, USA
Date: 5/9/2019	 Signature of Authorized person

Bulgarian

C настоящето Tesla Inc. декларира, че CarPC and PASSIVE ENTRY SYSTEM отговаря на същест1 вените изисквания и другите приложими изисквания на Директива 2014/53/EC.



Declarations of Conformity

Croatian	Ovime Tesla Inc. ", izjavljuje da je ovaj KEY FOB and PASSIVE ENTRY SYSTEM je u skladu s osnovnim zahtjevima i drugim relevantnim odredbama Direktive 2014/53/EU.
Czech	Tesla Inc. tímto prohlašuje, že tento CarPC and PASSIVE ENTRY SYSTEM je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.
Danish	Undertegnede Tesla Inc. erklærer herved, at følgende udstyr CarPC and PASSIVE ENTRY SYSTEM overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU..
Dutch	Hierbij verklaart Tesla Inc. dat het toestel CarPC and PASSIVE ENTRY SYSTEM in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU.
English	Hereby, Tesla Inc., declares that this CarPC and PASSIVE ENTRY SYSTEM is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
Estonian	Käesolevaga kinnitab Tesla Inc. seadme CarPC and PASSIVE ENTRY SYSTEM vastavust direktiivi 2014/53/EL põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
German	Hiermit erklärt Tesla Inc., dass sich das Gerät CarPC and PASSIVE ENTRY SYSTEM in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet.
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Tesla Inc. ΔΗΛΩΝΕΙ ΟΤΙ CarPC and PASSIVE ENTRY SYSTEM ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU.
Hungarian	Alulírott, Tesla Inc. nyilatkozom, hogy a CarPC and PASSIVE ENTRY SYSTEM megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak.
Finnish	Tesla Inc. vakuuttaa täten että CarPC and PASSIVE ENTRY SYSTEM tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
French	Par la présente Tesla Inc. déclare que l'appareil CarPC and PASSIVE ENTRY SYSTEM est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/UE..
Icelandic	Hér með lýsir Tesla Inc. yfir því að CarPC and PASSIVE ENTRY SYSTEM er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/ESB.
Italian	Con la presente Tesla Inc. dichiara che questo CarPC and PASSIVE ENTRY SYSTEM è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/UE.
Latvian	Ar šo Tesla Inc. deklarē, ka CarPC and PASSIVE ENTRY SYSTEM atbilst Direktīvas 2014/53/ES būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lithuanian	Šiuo Tesla Inc. deklaruoja, kad šis CarPC and PASSIVE ENTRY SYSTEM atitinka esminius reikalavimus ir kitas 2014/53/ES Direktyvos nuostatas.



Maltese	Hawnhekk, Name of Manufacturer, jiddikjara li dan CarPC and PASSIVE ENTRY SYSTEM jikkonforma mal-ftigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/UE.
Norwegian	Tesla Inc. erklærer herved at utstyret CarPC and PASSIVE ENTRY SYSTEM er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU.
Polish	Niniejszym Tesla Inc. oświadcza, że CarPC and PASSIVE ENTRY SYSTEM jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/UE.
Portuguese	Tesla Inc. declara que este CarPC and PASSIVE ENTRY SYSTEM está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/UE.
Slovak	Tesla Inc. týmto vyhlasuje, že CarPC and PASSIVE ENTRY SYSTEM spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EÚ.
Slovenian	Tesla Inc. izjavlja, da je ta CarPC and PASSIVE ENTRY SYSTEM v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU.
Spanish	Por medio de la presente Tesla Inc. declara que CarPC and PASSIVE ENTRY SYSTEM cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/UE.
Sweden	Härmed intygar Tesla Inc. att denna CarPC and PASSIVE ENTRY SYSTEM står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.



(APP_w207) Autosteer temporarily unavailable

Autosteer is currently unavailable. This could be a temporary condition due to external conditions that include:

- Missing or faded lane markers
- Narrow or winding roads
- Poor visibility due to rain, snow, fog, or other weather conditions
- Extremely hot or cold temperatures
- Bright light due to other vehicle headlights, direct sunlight, or other light sources

If the alert is caused by a temporary factor like these, no action or service is typically needed. Continue to your destination. The alert will clear and Autosteer will be available once the condition is no longer present.

If Autosteer is not available by the time you reach your destination, and remains unavailable during your next planned drive, the problem might be one of these issues:

- Damage or obstruction caused by mud, ice, snow, or other environmental factors
- Obstruction caused by an object mounted on the vehicle, like a bike rack
- Obstructions caused by adding paint or adhesive products like wraps, stickers, or rubber coatings to your vehicle
- A damaged or misaligned bumper

The solution might be as simple as washing your vehicle. If you do not find any obvious obstructions or you find damage to the vehicle, schedule service at your convenience. Your vehicle is OK to drive in the meantime.

For more information, see [Autosteer on page 118](#).

(APP_w304) Camera blocked or blinded Clean camera or wait for it to regain visibility

One or more of the vehicle cameras is blocked or blinded due to external conditions. When the cameras cannot provide accurate visual information, some or all Autopilot features may be temporarily restricted.

Cameras can be blocked or blinded due to many factors that include:

- Dirt or debris on the camera surface
- Environmental conditions like rain, fog, snow, or dew
- Bright sunlight or glare from another light source
- Condensation (water droplets or mist) on the camera surface

Continue to your destination. This is often a temporary issue that will clear up when condensation evaporates or a particular environmental condition is no longer present.

If the alert does not clear by the time you reach your destination, check the camera surface for condensation, dirt, or other debris.

For camera locations, see [About Autopilot on page 108](#).

Clean the camera as necessary before your next planned drive by gently wiping the camera lens with a soft damp cloth.

If you continue to see this alert after cleaning the cameras, check the inside surfaces of the door pillar camera enclosures for condensation.

Although condensation on the inside of the camera enclosures cannot be wiped clean, you can usually clear it quicker by following these tips:

1. Pre-condition the cabin with the temperature set to High and A/C turned ON.
2. Turn on the front windshield defroster.



3. Direct the air vents toward the door pillar cameras.

For more information on cleaning cameras and removing condensation, see [Cleaning Cameras and Sensors on page 110](#).

If the alert does not clear by the end of your next planned drive, despite camera cleaning and following the tips above to remove condensation, schedule service at your convenience. The vehicle is OK to drive in the meantime.

(CC_a012) Charging stopped High temperature detected by Wall Connector

High temperature detected by Wall Connector alerts indicate the building connection to the Wall Connector is getting too warm, so charging has stopped to protect the wiring and Wall Connector.

This is not typically an issue with your vehicle or your Wall Connector, but rather an issue with the building wiring. This may be caused by a loose building wiring connection to the Wall Connector and can be fixed quickly by an electrician.

To regain normal charge operation, contact an electrician to inspect the building wiring connection to the Wall Connector. They should make sure that all wires are properly connected and torqued according to the installation guide for the Wall Connector.

Wall Connector installation guides can be found [here](#).

(CC_a041) Charging speed reduced High temperature detected by Wall Connector

High temperature detected by Wall Connector alerts indicate the building connection to the Wall Connector is getting too warm, so charging has been slowed to protect the wiring and Wall Connector.

This is not typically an issue with your vehicle or your Wall Connector, but rather an issue with the building wiring. This may be caused by a loose building wiring connection to the Wall Connector and can be fixed quickly by an electrician.

To regain normal charge speed, contact an electrician to inspect the building wiring connection to the Wall Connector. They should make sure that all wires are properly connected and torqued according to the installation guide for the Wall Connector.

Wall Connector installation guides can be found [here](#).

(CP_a004) Charging equipment fault Try different charging equipment

The charge port is unable to detect whether a charge cable is inserted or the type of charge cable connected.

If this alert appears while a charge cable is connected, it should be determined whether the issue is caused by the charging equipment or the vehicle. Try charging the vehicle using different external charging equipment (charge cable, charging station, charging stall, etc.).

- If the vehicle begins charging, the issue was likely with the equipment.
- If the vehicle still does not charge, the issue may be with the vehicle.



If this alert appears while a charge cable is **not** connected or if the issue is suspected to be with the vehicle, inspect the charge port inlet and the charge cable connector for any obstructions (use a flashlight as necessary). Debris, moisture, and/or foreign objects present in the charge port inlet or the charge cable connector can prevent the charge port from properly detecting charge cables. If any obstruction is found:

1. Remove the debris / foreign object or dry any moisture.
2. Try re-inserting the cable into the charge port. Charging should now be possible.

Service should only be scheduled if any of the following conditions are present:

- This alert has appeared / remains present and the vehicle has been unable to charge with multiple, different charging equipment.
- This alert has appeared / remains present without any charging equipment connected after any charge port inlet obstruction has been removed or no obstruction was found.

For more information on charging, see [Charging Instructions on page 193](#).

(CP_a046) Unable to charge Check charging equipment

The charge port is unable to detect whether a charge cable is inserted or the type of charge cable connected.

If this alert appears while a charge cable is connected, it should be determined whether the issue is caused by the charging equipment or the vehicle. Try charging the vehicle using different external charging equipment (charge cable, charging station, charging stall, etc.).

- If the vehicle begins charging, the issue was likely with the equipment.
- If the vehicle still does not charge, the issue may be with the vehicle.

If this alert appears while a charge cable is **not** connected or if the issue is suspected to be with the vehicle, inspect the charge port inlet and the charge cable connector for any obstructions (use a flashlight as necessary). Debris, moisture, and/or foreign objects present in the charge port inlet or the charge cable connector can prevent the charge port from properly detecting charge cables. If any obstruction is found:

1. Remove the debris / foreign object or dry any moisture.
2. Try re-inserting the cable into the charge port. Charging should now be possible.

Service should only be scheduled if any of the following conditions are present:

- This alert has appeared / remains present and the vehicle has been unable to charge with multiple, different charging equipment.
- This alert has appeared / remains present without any charging equipment connected after any charge port inlet obstruction has been removed or no obstruction was found.

For more information on charging, see [Charging Instructions on page 193](#).

(CP_a054) Charge port latch not engaged Fully insert charge cable or check for obstruction

The charge port latch is unable to latch the charge cable in the charge port inlet. If the latch is not engaged, AC charging (for example, charging with a Tesla Mobile Connector or Wall Connector) will be limited to 16A and DC Fast Charging / Supercharging will be unavailable.

The charge port light will pulse amber if this alert appears during AC charging and will be solid amber if this alert appears when attempting to DC Fast Charge / Supercharge.

Try re-inserting the charge cable fully into the charge port inlet.



- If the vehicle begins charging and the charge port light pulses green, the charge cable may not have been fully inserted. The latch may not have engaged during previous attempts, because the cable was not fully inserted, even though it may have appeared to be. AC charging should no longer be limited and DC Fast Charging / Supercharging should be possible.
- If charging is still limited or the vehicle does NOT charge, inspect the charge port inlet and the charge cable connector for any obstructions (use flashlight as necessary). Debris, and/or foreign objects present in the charge port inlet or the charge cable connector can prevent the charge cable from being fully inserted and the charge port latch from engaging. If any obstruction is found:
 1. Remove the debris / foreign object.
 2. Try re-inserting the cable into the inlet. AC charging should no longer be limited and DC Fast Charging / Supercharging should be possible.

Service should only be scheduled if any of the following conditions are present:

- This alert has appeared / remains present when the charge cable is confirmed to be fully inserted during charging.
- This alert has appeared / remains present during charging after any inlet or connector obstruction has been removed or no obstruction was found.

For more information on charging, see [Charging Instructions on page 193](#).

(CP_a055) AC charging interrupted Check power source or charging equipment

Charging stopped because communication between the vehicle and the external charging equipment was interrupted.

Confirm whether the external charging equipment is powered by looking for any status lights, displays, or other indicators on the equipment.

If the equipment is **not** powered, try to restore the external charging equipment's power source.

- If attempting to charge at a public station and power is unable to be restored, contact the station operator.
- If attempting to charge at a private station (for example: charging at home) and power is unable to be restored, contact an electrician.

If the equipment is powered, try charging the vehicle using different external charging equipment.

- If the vehicle begins charging, the issue was likely with the equipment.
- If the vehicle still does not charge, the issue may be with the vehicle.

Service should only be scheduled if this alert has appeared / remains present when the equipment is powered and the vehicle has been unable to charge with multiple, different charging equipment.

For more information on troubleshooting Mobile Connector or Wall Connector status lights, refer to the product's Owner's Manual. If using other external charging equipment, refer to the manufacturer's provided documentation for troubleshooting tips.

(CP_a057) Unable to charge Check charging equipment

Charging was interrupted because the external charging equipment has reported a fault that prevents the vehicle from charging.

Inspect the external charging equipment and look for status lights, displays, or other status indicators on the equipment. Consult the equipment owner's manual for further troubleshooting instructions.

Try charging the vehicle with different charging equipment or at a different charging station.



- If the vehicle starts to charge, the issue was likely with the equipment.
- If the vehicle still does not charge, the issue may be with the vehicle.

Service should ONLY be scheduled if:

- You have tried charging with different charge equipment / at different stations.
- This alert has appeared during every charging attempt.

For more information on troubleshooting Mobile Connector or Wall Connector status lights, refer to the product's Owner's Manual. If using other external charging equipment, refer to the manufacturer's provided documentation for troubleshooting tips.

(CP_a101) **Charging speed reduced** **High temperature** **detected by Wall** **Connector**

High temperature detected by Wall Connector alerts indicate the building connection to the Wall Connector is getting too warm, so charging has been slowed to protect the wiring and Wall Connector.

This is not typically an issue with your vehicle or your Wall Connector, but rather an issue with the building wiring. This may be caused by a loose building wiring connection to the Wall Connector and can be fixed quickly by an electrician.

To regain normal charge speed, contact an electrician to inspect the building wiring connection to the Wall Connector. They should make sure that all wires are properly connected and torqued according to the installation guide for the Wall Connector.

Wall Connector installation guides can be found [here](#).

(CP_a102) **Charging stopped** **High temperature** **detected by Wall** **Connector**

High temperature detected by Wall Connector alerts indicate the building connection to the Wall Connector is getting too warm, so charging has stopped to protect the wiring and Wall Connector.

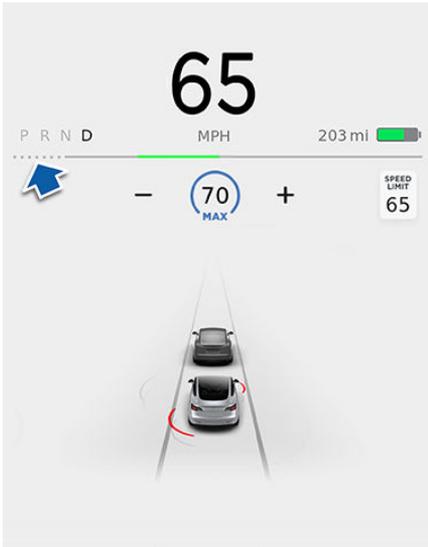
This is not typically an issue with your vehicle or your Wall Connector, but rather an issue with the building wiring. This may be caused by a loose building wiring connection to the Wall Connector and can be fixed quickly by an electrician.

To regain normal charge operation, contact an electrician to inspect the building wiring connection to the Wall Connector. They should make sure that all wires are properly connected and torqued according to the installation guide for the Wall Connector.

Wall Connector installation guides can be found [here](#).

(DI_a201) **Regenerative braking** **temporarily reduced** **Will improve as vehicle is** **driven**

Regenerative braking performance has been temporarily reduced to below 65% of its full capacity. The exact reduction is indicated by the dashed lines on the power meter:



While this alert is present, the deceleration rate of the vehicle due to regenerative braking will be reduced and more brake pedal application will be required to slow the vehicle (similar to what is needed in a gas-powered, non-electric, vehicle).

This alert is expected under the following conditions:

- Battery is near full charge:
 - Regenerative braking is reduced when the battery is at 95% charge or higher.
- Battery is cold:
 - The battery may not be warm enough for full regenerative braking performance (possibly at the beginning of a drive).
 - In extremely cold climates, this alert may remain present indefinitely and regenerative braking may remain reduced, as driving the vehicle may not warm the battery enough to fully restore performance.

Typically, driving will clear this alert because it will reduce the battery charge level below 95% and sufficiently warm the battery.

This is a completely normal part of vehicle operation and should not cause alarm. The notice on the screen is for your information only.

For more information on regenerative braking, see the Regenerative Braking section in the Owner's Manual. [Regenerative Braking](#) on page 78.

(UI_a014) Tire pressure lower than recommended Check tire pressure and refill as needed

This alert does NOT indicate that there is a flat tire.

The tire pressure monitoring system (TPMS) has detected that the air pressure in one or more of your tires is at least 20% lower than the recommended cold tire pressure. This recommended pressure should be displayed on the Tire and Loading information label.

See [Maintaining Tire Pressures](#) on page 201 for detailed information on how to keep the tires properly inflated.

This alert may appear in cold weather because the tire pressure decreases when cold.

- Although drops in tire pressure are expected in colder weather, air should still be added to maintain the recommended cold tire pressure.
- The alert may clear as the vehicle is driven. This is because the tires will warm up and the tire pressure will increase.
 - Even if the alert clears, the tires should still be refilled with air once they have cooled. The recommended cold tire pressure should be maintained.

If you repeatedly see this alert for the same tire, have the tire inspected for a slow leak.

For more information on tire pressure and inflation, see [Tire Care and Maintenance](#) on page 201.



(UMC_a002) Unable to charge with Mobile Connector Disconnect from charge port and try again

The vehicle cannot charge because the ground-fault circuit interrupter (GFCI) in the Mobile Connector has tripped.

Like the GFCI in a wall outlet, this feature is designed to stop the flow of electricity when there is a problem. It has interrupted charging to protect your vehicle and the charging equipment.

This could happen for many reasons. The problem could be in the charge cable, the charge handle, the charge port, or even an onboard vehicle component.

Inspect the charge port as well as the charge handle for any sign of water or moisture.

- If you find any moisture, **wait** and let both the inside area of the charge port and the exposed portion of the charge handle **dry completely** before trying again.

Inspect the charge equipment for damage.

- If the cable is in any way damaged or deteriorated, **do not use it**. Try different charging equipment instead.
- If the cable is in good condition, try charging again with the same Mobile Connector.

If the issue persists and prevents charging, try charging with different charging equipment.

Service should **ONLY** be scheduled if **both** of these conditions have been met:

- You have tried charging with different charging equipment.

AND

- The vehicle does not charge or unexpectedly stops charging during every charging attempt.

For more information on troubleshooting Mobile Connector status lights and charging issues, refer to the [product's owner's manual on page .](#)

(UMC_a005) Unable to charge with Mobile Connector Try a different outlet

The vehicle cannot charge, or charging is interrupted, because **either** the Mobile Connector:

- Does not detect enough supply voltage from the wall outlet.

OR

- Detects an unexpected drop in supply voltage from the wall outlet.

Try charging the vehicle with a different wall outlet.

If the vehicle starts to charge, the issue was likely with the original wall outlet. It is recommended that you contact an electrician to inspect the building wiring connection to that outlet.

If the vehicle still does not charge when you try a different wall outlet, try charging at a different location.

Service should **ONLY** be scheduled if **all** of these conditions have been met:

- You have tried charging with different wall outlets.
- You have tried charging with different charging equipment.
- The vehicle does not charge or unexpectedly stops charging during every charging attempt.

For more information on troubleshooting Mobile Connector status lights and charging issues, refer to the [product's owner's manual on page .](#)



(UMC_a017) **Charging speed reduced** **High temperature** **detected by Mobile** **Connector**

High temperature detected by Mobile Connector alerts indicate the outlet used to charge is becoming too warm, so charging has been slowed to protect the outlet.

This is not typically an issue with your vehicle or your Mobile Connector, but rather an issue with the outlet. A warm outlet may be caused by a plug that is not fully inserted, a loose building wiring connection to the outlet, or an outlet that is beginning to wear out.

To regain normal charge speed, make sure your adapter is fully plugged into the outlet. If charging speed does not return to normal, contact an electrician to inspect the outlet and building wiring connections to the outlet and complete any repairs needed.

If the outlet is worn, it should be replaced with a high-quality outlet. Consider upgrading to a Tesla Wall Connector for greater convenience and highest charging speed.

(UMC_w008) **Charging stopped** **High temperature** **detected by Mobile** **Connector**

High temperature detected by Mobile Connector alerts indicate the outlet used to charge is becoming too warm, so charging has stopped to protect the outlet.

This is not typically an issue with your vehicle or your Mobile Connector, but rather an issue with the outlet. A warm outlet may be caused by a plug that is not fully inserted, a loose building wiring connection to the outlet, or an outlet that is beginning to wear out.

To regain normal charge operation, make sure your adapter is fully plugged into the outlet. If charging speed does not return to normal, contact an electrician to inspect the outlet and building wiring connections to the outlet and complete any repairs needed.

If the outlet is worn, it should be replaced with a high-quality outlet. Consider upgrading to a Tesla Wall Connector for greater convenience and highest charging speed.

(VCFRONT_a182) **12V battery must be** **replaced soon** **Software updates will not** **complete until serviced**

The 12V battery has aged or degraded and needs to be replaced. Until the battery is replaced, vehicle software updates will not complete.

It is recommended to replace the battery at your earliest convenience. In the meantime, continue normal use of the vehicle.

The vehicle is still OK to drive with this alert present, for a period of time. However, if you continually delay the 12V battery replacement, the vehicle may eventually not have enough power to start or restart.

If the 12V battery is too low to turn on the vehicle or open the doors, follow the instructions in [Jump Starting the 12V Battery on page 237](#).

For more information on the battery system, see [Battery Information on page 191](#).

(VCFRONT_a192) **Electrical system power** **reduced** **Vehicle may shut down** **unexpectedly**

The electrical system cannot maintain the voltage required to support all vehicle features.



Troubleshooting Alerts

If you drive the vehicle while this alert is present, certain features may be disabled or function at a reduced level due to the low voltage. It is also possible the vehicle will shut down unexpectedly.

Try turning off non-critical features, like seat heaters or cabin fans, to help the vehicle maintain electrical power for as long as possible.

Eliminating or reducing usage of non-critical features may allow the vehicle to reach its destination without shutting down, although this is not guaranteed.

Schedule service before your next planned drive. The vehicle may shut down unexpectedly or may not restart without service.



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