



MODEL S SOFTWARE RELEASE NOTES v7.1

With this release, we have expanded and improved Autopilot functionality in Model S. Autopark can now park Model S in the garage for you and in perpendicular parking spaces. Additionally, Autosteer performs better in common highway driving scenarios. This release further includes some much-requested new features, such as HomeLink auto-open/close, display Auto-Brightness, additional vehicle locking options, and Trip Planner improvements.

Autopilot Improvements

Autosteer: New Safety Restriction

Autosteer is now restricted on residential roads and roads without a center divider. When Autosteer is engaged on a restricted road, Model S's speed will be limited to the speed limit of the road plus an additional 5 mph. When entering such a restricted road, Model S will reduce its speed if necessary and will do so even if you increase the cruise control set speed.



Additional Improvements

- Autosteer has been improved to keep Model S in its current lane when passing highway exits.
- Autosteer has been improved to keep Model S in its current lane when lane markings are faded.

Autopark

Summon (Beta)

You can now park Model S from outside the vehicle. This feature is especially useful for parking in tight spaces and narrow garages.

Initiating

To prepare to park your vehicle, align Model S within 33 feet of the final parking space so Model S can move straight into the space in either Drive or Reverse. With Model S in Park, stand within 10 feet of the vehicle and press and hold the center button on your key fob until the hazard lights flash continuously. While the hazard lights are flashing, press the frunk button once on the key fob to drive Model S forward into the parking space or the trunk button once on the key fob to back Model S into the parking space. Model S will move up to 33 feet or until the sensors detect an obstacle, at which point parking is considered completed and Autopark will shift the car to Park.

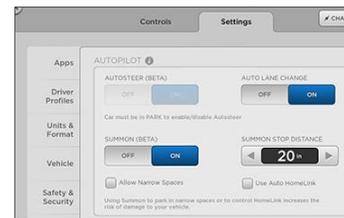
Repeat the process above to use Summon to exit a parking spot remotely.

Canceling

You can stop Model S at any time while Summon is in process by pressing the center button on the key fob.

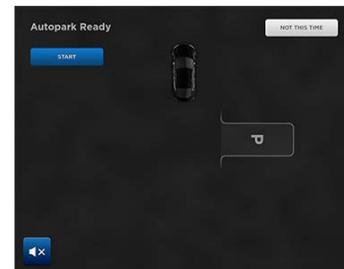
Note:

- Before you can use Summon, you must enable it via the SUMMON setting in Controls > Settings > Driver Assistance > AUTOPILOT.
- Use the new HomeLink auto-open/close feature (see below) and enable “Use Auto HomeLink” under the SUMMON setting if you are parking in a garage and need to operate the garage door after activating Summon.
- Model S may not detect certain obstacles, including those that are very narrow (e.g., bikes), lower than the fascia, or hanging from the ceiling. As such, Summon requires that you continually monitor your vehicle’s movement and surroundings while it is in progress, and that you remain prepared to stop the vehicle at any time using your key fob.
- Only use Summon on flat driveways.
- You must stay in proximity to your vehicle and continually monitor and maintain control of it when using this feature. You should only use this feature on private property.

**Perpendicular Parking**

Model S can now also park itself in spaces that are perpendicular to the curb. Drive completely past the space until the “P” appears in the Instrument Panel. Autoparking functions—engaging, canceling, pausing, resuming, etc.—remain the same as parallel Autopark.

Note: Perpendicular Autopark backs Model S into the parking space.

**Enhanced Autopilot Visualization**

The real-time visualization of the road has been improved to provide more information about your vehicle’s surroundings. The Instrument Panel can now display multiple vehicles around the front of Model S. In addition, distinct graphics indicate vehicle type—cars, trucks, and motorcycles.



Traffic-Aware Cruise Control Enhancements

Establishing a Set Speed

Initially setting Model S's set speed has been improved to require fewer manual adjustments while using Traffic-Aware Cruise Control.

- Pulling the cruise stalk: Model S will choose a set speed that is the maximum of its current speed or your preferred speed relative to the speed limit.
- Tapping the cruise stalk up or down: the set speed will be set to Model S's current speed.

Automatic Speed Adjustments

- In left-hand drive countries, Traffic-Aware Cruise Control will slow Model S for highway exits after you activate the right-turn signal if you are in the right-most exit lane.
- In right-hand drive countries, Traffic-Aware Cruise Control will slow Model S for highway exits after you activate the left-turn signal if you are in the left-most exit lane.
- Traffic-Aware Cruise Control will adjust vehicle speed appropriately when Model S enters and exits turns.

Additional Improvements

- Forward Collision Warning has been improved to provide fewer false alerts when Traffic-Aware Cruise Control is active.
- Model S will give greater clearance to adjacent moving vehicles than to fixed objects (e.g., barriers) and will intervene earlier if a collision with an object next to you is likely. Additionally, side collision intervention has been improved to provide fewer false activations.

HomeLink: Auto-Open/Close

If you are using HomeLink, you can have Model S automatically operate your garage door. When auto-open is enabled, the HomeLink dropdown on the touchscreen will have a distance countdown to the garage door opening. A "Skip" button is available should you need to override auto-opening.



Auto-close automatically closes your garage door when you leave your home and operates similar to auto-open. The auto-close option is available only if you have auto-open enabled for the HomeLink control.



Note:

- Auto-open and auto-close are disabled by default. You can enable these settings after selecting the appropriate HomeLink control in Controls > Settings > HomeLink.
- If your garage door is not auto-opening early enough, park your Model S where you'd like the auto-command to be issued and tap on the "Reset location" link.

Vehicle Lock Improvements

With this release, you have more control over Model S's unlocking behavior:

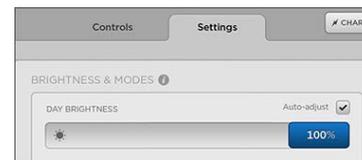
- In the new DRIVER mode, a double-press of the key fob or walking up to Model S will unlock only the driver's door. Double-press the key fob again to unlock all doors. You can access this setting in Controls > Settings > Vehicle > DOORS & LOCKS > DOOR UNLOCK MODE.
- You can also choose if Model S unlocks when you shift to Park. You can access this setting in Controls > Settings > Vehicle > DOORS & LOCKS > UNLOCK ON PARK.
- You can now unlock Model S without stopping an in-progress charging session. Continue to press and hold the rear trunk button to unlock the charge port with the key fob.



Note: The DRIVE-AWAY LOCK setting has been removed and is ON by default.

Display Auto-Brightness

Auto-Brightness uses Model S's light sensors to adjust brightness based on your surroundings. Auto-Brightness also learns from your preferences—if you adjust the brightness manually, Auto-Brightness will use your input to make future adjustments.



Auto-Brightness is enabled by default. You can disable it via the “Auto-adjust” checkbox in Controls > Displays > BRIGHTNESS & MODES.

Supercharger Site Availability

Model S drivers can now see at a glance whether a Supercharger site is closed for maintenance. The pin icon for a site will change when the site becomes unavailable or has scheduled maintenance. Tap on the Supercharger pin on the Map to see more details about the closure.



Trip Planner Improvements

With this release, we've made improvements to address some of Trip Planner's more frequent issues. Specifically, routes that include the following are less likely to occur:

- Supercharger stops to charge for less than 5 minutes.
- Supercharger stops that deviate from the most direct route.

Trip Planner will also recommend a maximum driving speed when you have to drive more conservatively to reach your final destination or the next Supercharger along your route.

Additional Improvements

- Audio can now be paused or muted from the steering wheel controls when the Park Assist view is visible on the Instrument Panel.
- The auto windshield-wiping logic has been improved.