



If Model S is equipped with Driver Assistance components (see [About Driver Assistance](#) on page 65), and you have purchased the optional Autopilot Tech Package, Autopark uses data from ultrasonic sensors and the Global Positioning System (GPS) to:

- Simplify parking on public roads by maneuvering Model S into parallel and perpendicular parking spaces. See [Parking on Public Roads](#) on page 79.
- Automatically park and retrieve Model S from outside the vehicle on a private residential property. See [Using Summon](#) on page 81.

⚠ Warning: Summon is a BETA feature in Release 7.1. Please use this feature with caution, staying prepared to take immediate action at any time.

⚠ Warning: Autopark's performance depends on the ability of the ultrasonic sensors to determine the vehicle's proximity to curbs, objects, and other vehicles.

Parking on Public Roads

When driving, follow these steps to allow Autopark to maneuver Model S into a parking space:

1. When driving slowly on a public road, monitor the instrument panel to determine when Autopark has detected a potential parking space. When Autopark detects a parking space, the instrument panel displays a parking icon. Autopark detects parallel parking locations when driving below 15 mph (24 km/h) and perpendicular parking locations when driving below 10 mph (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.

Note: If the Autopark icon does not appear at potential parking spaces when driving at the indicated speed, it is possible that Autopark is calibrating. Autopark requires a calibration process when Model S is new, or when tires are changed (see [Calibration](#) on page 80).

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, engage the Reverse gear and 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 instrument panels displays an alert message indicating that you must manually park Model S.



Note: If you press the brake when Autopark is actively parking Model S, the parking process pauses until you press the Resume button on the touchscreen.

Note: Autopark detects potential perpendicular parking spaces that are at least 9.5 feet (2.9 meters) wide with a vehicle parked on each side. Autopark detects parallel parking spaces that are at least 20 feet (6 meters), but less than 49 feet (15 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 S, 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 and instrument panel to ensure that you are aware of the instructions that Autopark is providing.

Calibration

During a parking sequence, Autopark must maneuver Model S with a great deal of precision. Therefore, before it can be used, Autopark must complete a calibration process. Calibration can take anywhere from 30 minutes to several days, depending on driving behavior. When Autopark is calibrating, a note displays on the Driver Assistance settings screen indicating that calibration is in progress. When calibration is complete, this note no longer displays and Autopark is available for use.

Note: Autopark repeats the calibration process whenever tires are changed.

To Cancel Parking

Autopark cancels the parking sequence when you manually move the steering wheel, or when you change gears. Autopark also cancels parking when:

- The parking sequence exceeds the maximum of seven moves.
- The driver's seat belt is unbuckled.
- A door is opened.
- You press the accelerator pedal.
- You press the brake pedal twice in quick succession.
- An Automatic Emergency Braking event occurs (see [Collision Avoidance Assist](#) on page 86).

To Pause Parking

To pause Autopark, press the brake pedal once. Model S stops and remains stopped until you press Resume on the touchscreen.

Limitations

Autopark is particularly unlikely to operate as intended in the 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.
- 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 S. Keep this in mind and remember that as a result, Autopark may not steer Model S appropriately. Pay attention when parking Model S and stay prepared to immediately take control.