



MODEL S

A QUICK GUIDE
FOR OWNERS

INFORMATION ABOUT YOUR MODEL S IS AVAILABLE AT:

www.teslamotors.com/mytesla

To contact Tesla call 1-877-79TESLA (1-877-798-3752)

For Roadside Assistance call 1-866-99TESLA (1-866-998-3752)

This document describes the features available at time of printing for:

MODEL S SOFTWARE: v4.0

NOTE: Features released in subsequent versions of software are not described in this document. However, you can display information about the newest features by viewing the Release Notes on the Model S touchscreen. These 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 center of the touchscreen, and then touching the Release Notes link (see page 29). If information provided in this document conflicts with information in the Release Notes, the Release Notes take precedence.

© 2012 TESLA MOTORS, INC. All rights reserved.

All information in this document and all MODEL S[®] software is subject to copyright and other intellectual property rights of Tesla Motors, Inc. and its licensors. This material may not be modified, reproduced or copied, in whole or in part, without the prior written permission of Tesla Motors, Inc. and its licensors. Additional information is available upon request.

TESLA MOTORS[®], TESLA ROADSTER[®], TESLA[®], T[®], TTM, and MODEL S[®] are registered trademarks of Tesla Motors, Inc. in the United States. TESLATM is a trademark of Tesla Motors, Inc. in the United States and other countries. HOMELINK[®] and the HOMELINK[®] house icon are registered trademarks of Johnson Controls, Inc. All other trademarks contained in this document are the property of their respective owners and their use herein does not imply sponsorship or endorsement of their products or services. The unauthorized use of any trademark displayed in this document or on the vehicle is strictly prohibited.

CONTENTS

TO GET IN AND DRIVE	2	INTERIOR SWITCHES	18
OPENING DOORS	2	WIPERS AND WASHERS	18
USING YOUR KEY	2	HAZARD WARNING FLASHERS	18
STARTING AND DRIVING	3	GLOVE BOX	18
PARKING AND POWER OFF	3	ACCESSORY CONNECTIONS	18
WALK-AWAY AND DRIVE-AWAY LOCKING	3		
INSTRUMENT PANEL	4	USING APPS	19
INSTRUMENT PANEL AT A GLANCE	4	CONNECTING YOUR PHONE	19
INDICATOR LIGHTS	5	USING YOUR PHONE	19
TOUCHSCREEN	6	VOICE COMMANDS	19
OVERVIEW	6	USING MEDIA PLAYER	20
CLIMATE CONTROLS	7	NAVIGATING	21
TOUCHSCREEN > CONTROLS	8		
TOUCHSCREEN > CONTROLS > SETTINGS	9	CARE AND MAINTENANCE	22
DOORS, LOCKS, AND WINDOWS	10	CLEANING THE EXTERIOR	22
DOOR AND TRUNK CONTROLS	10	CLEANING THE INTERIOR	23
WINDOW CONTROLS	11	MAINTAINED BY TESLA	24
DRIVER COMFORT	12	CHECK AND REPLACE WIPER BLADES	24
CREATE A DRIVER PROFILE	12	TOP UP WASHER FLUID ONLY	24
ADJUST DRIVER'S SEAT	12	BATTERY CARE	25
ADJUST STEERING WHEEL	12	MAINTAIN PROPER TIRE PRESSURES	26
ADJUST MIRRORS	12	REPLACING FUSES	26
LIGHTS	13	HOMELINK®	28
DRIVING	14	SOFTWARE UPDATES	29
A UNIQUE DRIVING EXPERIENCE	14		
DRIVING TIPS FOR MAXIMUM RANGE	14	EMERGENCY UNLOCKING	30
CRUISE CONTROL	15	OPENING EXTERIOR DOORS IF KEY DOESN'T WORK	30
CHARGING	16	OPENING INTERIOR DOORS WITH NO POWER	30
PLUGGING IN	16	OPENING TRUNKS WITH NO POWER	30
HOW LONG DOES IT TAKE?	16	JACKING OR LIFTING	31
NOTES ABOUT CHARGING	16	TRANSPORTING	32
CHANGING CHARGE SETTINGS	17	INDEX	34
CHARGING STATUS	17		
UNDERSTANDING ENERGY USE	17		

For printed information describing Model S safety features and considerations (including airbags, seat belts, child safety seats, rear facing child seats, tires, wheels, loading, and consumer information), see the document titled "OWNER SAFETY INFORMATION," included in your owner documentation package.

OPENING DOORS

If your Model S is equipped with the Tech Package option, walk up to the driver's door when you have your key with you, and the door handles extend.* Insert your hand into the handle and pull to open the door. Without this option, unlock Model S with the key, then press the handle to extend it.

Open the trunk without using the key simply by touching the switch located under the liftgate handle.



NOTES:

If keyless entry doesn't work, use your key as described on this page.

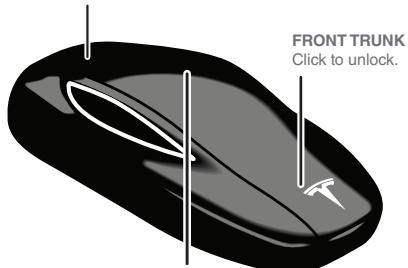
Door handles retract if you don't use them within a minute after they extend. Press a handle to extend it again. Door handles also retract a minute after the last door closes, when Model S begins moving, and when you lock it.

USING YOUR KEY

To familiarize yourself with the key, think of it as a miniature version of Model S, with the Tesla badge representing the front.

TRUNK

Double-click to unlock or to open/close a powered liftgate.
Single-click to stop/start the movement of a powered liftgate.



FRONT TRUNK

Click to unlock.

LOCK/UNLOCK ALL

Double-click to unlock doors (lights flash twice and handles extend).
Single-click to lock doors and the trunks (lights flash once and handles retract).
Press and hold to lower all windows.

NOTES:

You don't need to point the key at Model S, but you must be within operating range (which varies depending on the strength of the key's battery).

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

If the key doesn't work, you may need to change its battery. Even if the key's battery is discharged, you can open Model S by following the procedure described on page 30.

From inside Model S, you can lock and unlock doors, trunks, and the charge port using the touchscreen (see page 10).

* Door handles extend automatically only if the AUTO-PRESENT HANDLES setting is turned ON (see page 9).



STARTING AND DRIVING

When you sit in the driver's seat, Model S powers on the instrument panel and touchscreen.^{**} The center circle on the instrument panel displays the status of doors and the charge level (see page 4) and you can operate all controls. To drive:

PRESS THE BRAKE

SELECT A GEAR

Pressing the brake pedal starts the car. The center circle of the instrument panel displays the speedometer, power meter, charge level, and selected gear (see page 4).

Select a gear to drive—all the way down for D (Drive) and all the way up for R (Reverse).

NOTES:

If you try to shift into a gear without first pressing the brake pedal, Model S sounds a chime to remind you to press the brake.

If Model S can't detect your key, the instrument panel displays the message "Key Not Inside." Put the key in the center console cup holder (and away from other devices such as cell phones) where Model S can best detect it.

Before driving Model S, adjust the steering wheel, your seat, and the mirrors to ensure maximum comfort and safety (see page 12). And don't forget to fasten your seat belt!

Everything you need to know when driving Model S displays on the instrument panel.

^{**} If the KEEP DISPLAYS POWERED setting is turned OFF (see page 9), if the Battery power is low, or if Model S has not been used for over 60 hours, you may experience a brief delay as the instrument panel and touchscreen wake up from an energy-saving state.

PARKING AND POWER OFF

When you finish driving, shift into P (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 S, it powers off automatically, turning off the touchscreen and instrument panel.

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



To manually power off Model S, or to control the parking brake, touch CONTROLS > E-BRAKE & POWER OFF.

To turn the touchscreen and instrument panel back on at any time, press the brake or touch the touchscreen.

NOTE: If you use the touchscreen to release the parking brake when in P (Park), Model S automatically shifts into Neutral. However, when you exit Model S, it shifts into Park. To keep Model S in Neutral after exiting, power off Model S manually using the touchscreen.

WALK-AWAY AND DRIVE-AWAY LOCKING

If your Model S is equipped with the Tech Package option, Model S doors and trunks can automatically lock when you walk away or when you drive, provided these features are turned on (see page 9).

If the walk-away locking feature is turned on, Model S automatically locks all doors (including the front and rear trunks) when you get out of the driver's seat and walk away from Model S, provided you have your key with you.

If the drive-away locking feature is turned on, Model S automatically locks all doors and trunks whenever your driving speed reaches 5 mph. When you stop and shift into P (Park), the doors unlock and exterior door handles extend.



INSTRUMENT PANEL AT A GLANCE

The instrument panel changes to display information related to the current situation:

When **driving** (or ready to drive), the center circle displays speed, power meter, charge level, estimated range*, and active gear.

When **parked**, the center circle displays estimated range* and status of doors.

When **plugged in**, the instrument panel displays charging information (see page 17).

*To change how range, touch CONTROLS > SETTINGS > UNITS & FORMAT. You can display "Ideal" or "Rated" range. Ideal is based on driving a steady 55 mph on a flat road whereas Rated is based on metrics determined as a result of EPA testing.

Use the **left steering wheel buttons** to control Media player. You can also press and roll the scroll wheel to change what displays on the left side of the instrument panel.

Indicator lights flash briefly as the vehicle gets ready to drive (see page 5).

If you turn off Traction Control, this message displays.

Use the **right steering wheel buttons** to use voice commands, handle telephone calls and control some features of Model S. You can also press and roll the scroll wheel to customize what displays on the right side of the instrument panel.



When parked, the center circle displays charge level and status of doors.

Pay attention to warning messages that display in this area.

Lock/unlock status, vehicle mileage, outside temperature and date/time display across the bottom.

INDICATOR LIGHTS

The following indicator lights flash on for a second when you press the brake to prepare for driving. They should then turn off unless the indicator light applies to a current situation. Some indicator lights are accompanied by a message displayed on the instrument panel or on the touchscreen. If an indicator light fails to turn on or off, contact Tesla.

	Airbag safety. If it doesn't flash on when preparing to drive, or if it remains lit, contact Tesla immediately.	 PARK	The parking brake is manually applied.		Active Air Suspension's automatic self-leveling disabled . The vehicle is in Jack mode. See pages 31 and 32.
	The driver or front passenger's seat belt is not fastened.		Headlight high beams are on.		An ABS fault is detected. Contact Tesla immediately.
	Front fog lights are on.		Headlight low beams are on.		A brake system fault is detected or the brake fluid level is low. Contact Tesla immediately.
	Not used in North American markets.		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 light flashes. For a TPMS fault, contact Tesla.		Door, trunk, or front trunk is open.
	Parking/Side lights are on.		Active Air Suspension fault is detected. Contact Tesla.		Traction control is in use (light flashes).

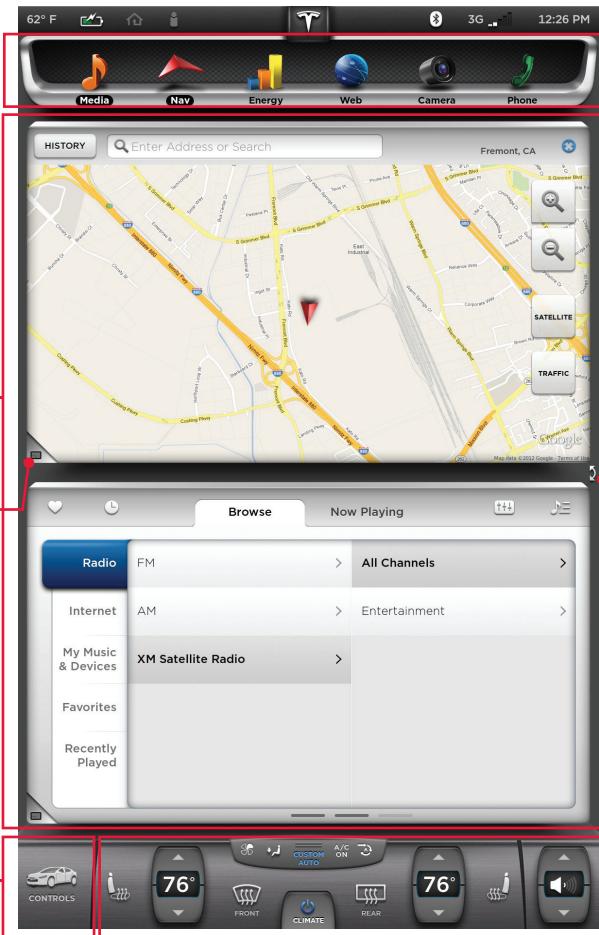
OVERVIEW

When set to Auto, the touchscreen automatically changes between Day and Night brightness depending on the ambient lighting conditions. To manually control this feature, touch CONTROLS > DISPLAYS.

The MAIN VIEWING AREA changes depending on the app you've chosen (in this example, the Nav and Media Player apps are displayed). When using some apps (such as Nav and Web), you can zoom in and out by pinching and expanding your index finger and thumb on the screen.

Touch the small rectangle to expand the window to fill the entire main viewing area. Touch again to display both windows.

Touch CONTROLS to access all Model S controls and settings (doors, locks, lights, etc). See the next two pages.



The top line displays status symbols and provides shortcuts to Charging, HomeLink, Driver Profiles, vehicle information (the Tesla "T"), and Bluetooth.

Choose the app(s) you want to display in the main viewing area:

- Tap the app's icon to display it in the top viewing area. If the app is already displayed, a second tap switches it to full-screen view (note that only some apps have a full-screen mode).
- Drag the app's icon directly onto the top or bottom viewing area.
- Touch and hold the app's icon to display a popup that lets you choose whether to display the app in the top or bottom of the main viewing area.

Touch to REVERSE the position of the top and bottom windows.

Climate (see page 7) and volume controls.

CLIMATE CONTROLS

The climate controls are always available at the bottom of the touchscreen. By default, climate control is set to AUTO ON, which maintains optimum comfort in all but the most severe weather conditions. When you adjust the temperature, the system automatically adjusts the heating, air conditioning, air distribution, air circulation, and fan speed to maintain your selected temperature. You can override these settings by pressing AUTO ON and adjusting individual settings.

NOTE: The fan, heating, and air conditioning systems are powered by the Battery. Therefore, prolonged use decreases driving range.



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 heater.



Driver's seat heater* operates at three levels from 1 (lowest) to 3 (highest).

Touch arrows to set the temperature on the driver's side** from LO (63°) to HI (90°).

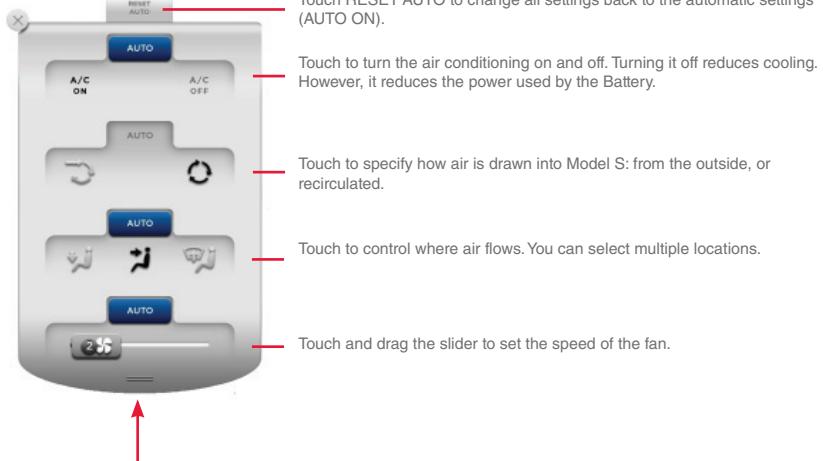
Windshield defroster distributes air to the windshield and switches the heating and fan to maximum.

ON/OFF

Rear window heater warms up the rear window and exterior mirrors for 15 minutes, then shuts off.

Touch arrows to set the temperature on the passenger side** from LO (63°) to HI (90°).

Front passenger seat heater* also operates at three levels.



Touch RESET AUTO to change all settings back to the automatic settings (AUTO ON).

Touch to turn the air conditioning on and off. Turning it off reduces cooling. However, it reduces the power used by the Battery.

Touch to specify how air is drawn into Model S: from the outside, or recirculated.

Touch to control where air flows. You can select multiple locations.

Touch and drag the slider to set the speed of the fan.

* Seat heaters are available only if your Model S is equipped with leather seats.

** Use the SYNC option (that pops up when you touch the arrow) to set the same temperature for both the driver and passenger side at the same time.



TOUCHSCREEN > CONTROLS



Touch **CONTROLS** on the bottom left corner of the touchscreen to control and customize all main features of Model S.

Sunroof	If your Model S is equipped with a sunroof, touch to adjust its position (see page 11).
Driving	SUSPENSION: If your Model S is equipped with Active Air Suspension, manually raise or lower Model S. You must press the brake pedal before you can change suspension settings. If lifting or towing, first touch VERY HIGH , then touch JACK to disable self-leveling (see pages 31 and 30). Note that driving speed can limit the suspension options that are available. 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. REGENERATIVE BRAKING: When you release the accelerator when driving, regenerative braking slows Model S and feeds energy back to the Battery. If set to LOW , Model S won't slow down as quickly, but you'll experience less range. TRACTION CONTROL: If you turn OFF traction control, a warning message displays on the instrument panel. The OFF setting stays in effect for the current drive only. CREEP: When ON , Model S slowly moves forward when in Drive (D) and backward in Reverse (R) when you release the brake (similar to a conventional vehicle with an automatic transmission). Can only be adjusted when Model S is in Park (P).
Trips/Range	View and reset the trip meters that summarize miles and range.
Displays	Manually control the touchscreen's brightness, and day/night setting.
E-Brake & Power Off	Manually control the emergency brake and the power.



WARNING: Do not use features that could distract you while driving. To ensure safe operation of your vehicle, focus your full attention on driving.

Touch to close the window.

Touch SETTINGS to personalize Model S (see next page.)

SUSPENSION
Push brake pedal to enable suspension options

DRIVING

TRIPS/ RANGE

DISPLAYS

E-BRAKE & POWER OFF

STEERING MODE

TRACTION CONTROL

REGENERATIVE BRAKING

DOORS & LOCKS

LIGHTS

Control doors, locks, and lights (see pages 10 and 13).

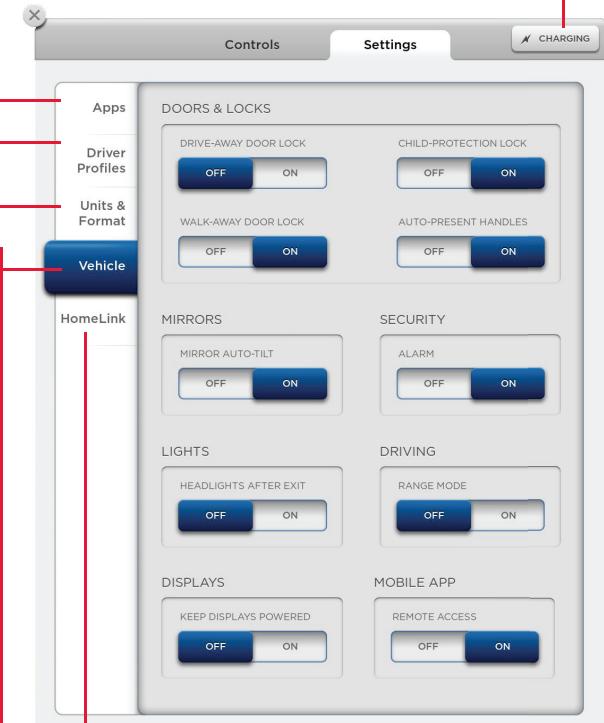


TOUCHSCREEN > CONTROLS > SETTINGS

Touch the SETTINGS tab on the CONTROLS window to adjust Model S to suit your preferences.

Touch to display charge settings (see page 17).

DRIVE-AWAY DOOR LOCK	If ON, all doors automatically lock whenever you drive Model S over 5 mph (8 km/h).
WALK-AWAY DOOR LOCK	If ON, all doors automatically lock when you walk away from Model S, carrying the key with you.
CHILD-PROTECTION LOCK	If ON, safety locks prevent the rear doors and the liftgate from being opened from inside Model S.
AUTO-PRESENT HANDLES	If ON, door handles extend automatically whenever you approach Model S carrying a key, whether locked or unlocked.
MIRROR AUTO-TILT	If ON, exterior mirrors tilt downward when reversing (see page 12).
ALARM	If ON, the horn will sound if a door or the front or rear trunk is mechanically opened by non-standard means.
HEADLIGHTS AFTER EXIT	If ON, headlights stay on for two minutes after you exit, or until you lock Model S.
RANGE MODE	If ON, Model S conserves energy by limiting the power of the climate control system. Cabin heating and cooling may be less effective, but seat heaters turn on to compensate.
KEEP DISPLAYS POWERED	If ON, the instrument panel and touchscreen do not enter a "sleep" state when you exit Model S. As a result, displays are instantly powered when you approach with a key, but range is reduced by up to 8 miles per day (if unplugged). If OFF, you may experience a brief delay as Model S wakes up.
REMOTE ACCESS	If ON, Model S is ready to communicate with future mobile apps used to remotely check status and control some features.



Use HomeLink® to control RF-enabled garage doors, gates, lights, or security systems (see page 28).

DOOR AND TRUNK CONTROLS

Locking and unlocking



When sitting inside Model S, you can lock doors, open the front and rear trunks, and open the charge port by touching CONTROLS on the bottom left corner of the touchscreen.



Liftgate

To open the liftgate:

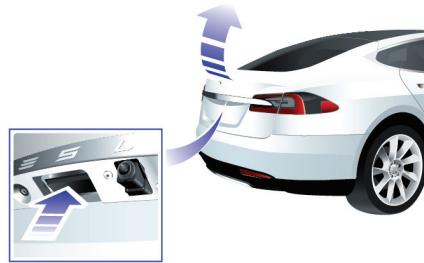
- Touch Trunk on the touchscreen CONTROLS window, or
- Double-click the Trunk button on the key, or
- Press the switch located under the liftgate's handle.

If Model S is equipped with a powered liftgate, you can close it using the touchscreen, the Trunk button on the key, or by pressing the button on the underside of the liftgate (see the illustration on page 11).



Child protection locks

Turn on child protection locks to prevent children inside Model S from opening the rear doors or the liftgate. On the touchscreen, touch CONTROLS > SETTINGS.



NOTES:

- To stop a powered liftgate when it is moving, touch Trunk on the touchscreen CONTROLS window, press the Trunk button on the key, or press the button on the underside of the liftgate.
- If you leave the liftgate open for more than an hour, the power closing feature is temporarily disabled. Manually close the liftgate to restore powered operation.
- If the liftgate senses an obstruction while closing, it automatically opens and sounds two chimes. Remove the obstruction and try closing it again. If it can't close it for a second time, powered operation is temporarily disabled. Manually close the liftgate to restore powered operation.

Reset the liftgate's opening height

You can change the height of the powered liftgate to make it easier to reach:

- Open the liftgate, then lower it to the desired opening height.
- Press and hold the button on the underside of the liftgate for 2 seconds until you hear a confirmation beep.
- Confirm that you've set it to the desired height by closing the liftgate, then reopening it.



WINDOW CONTROLS

Press down on a switch to lower the associated window all the way down. Window switches operate at two levels. To lower a window partially, hold the switch and release when the window is at the desired position.

Pull a switch up to raise the associated window. This also operates at two levels, as described above.



Disable rear window switches

To prevent children sitting in the rear seats from opening the windows, disable the rear switches by pressing the button shown. When disabled, the button's light turns on. The windows can still be operated using the switches on the driver's door.



Sunroof



To operate the sunroof, touch CONTROLS > SUNROOF on the touchscreen. Drag or tap on the sunroof's slider bar, or touch the image of the sunroof. The sunroof moves to the selected position.



If the sunroof's safety mechanism detects any type of obstruction, it won't close. If, after removing the obstruction, it still doesn't close, touch and hold down CLOSE. Touch VENT to open the sunroof slightly.

Drag the slider bar to the indents to open the sunroof to the comfort position (80% open). At this position, wind noise is minimal. You can also move the sunroof to the comfort position by touching OPEN once.

Touch once to open the sunroof to the comfort position. Touch twice to open it fully.

Touch anywhere on the sunroof image to stop it from moving at any time.



CREATE A DRIVER PROFILE

Depending on the options available on your Model S*, you may only need to adjust Model S once. When you first adjust the driver's seat, steering wheel, or driver's side mirror, the touchscreen prompts you to create a driver profile. Your profile saves the position of the seat, steering wheel, and driver's side mirror, as well as many of the other preferences you make using the Settings screen (see page 9).

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



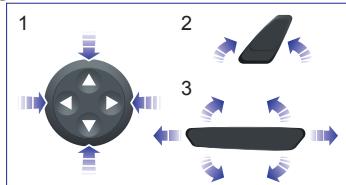
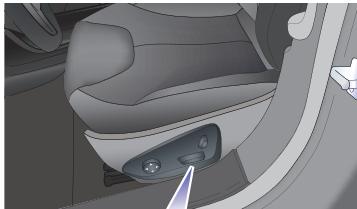
To restore the adjustments associated with a driver profile, simply touch the driver profile icon, located to the left of the Tesla "T" on the touchscreen status bar, and choose the driver.

You can also create a driver profile by touching CONTROLS > SETTINGS > DRIVER PROFILES.

*In the U.S., the Driver Profile feature is available as part of the Nappa Leather Package only.

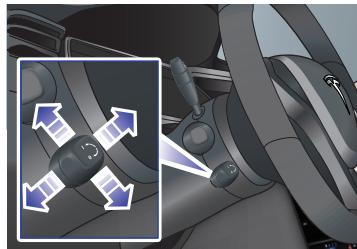
ADJUST DRIVER'S SEAT

1. Adjust lumbar support.
2. Adjust backrest.
3. Adjust seat (move forward and backward, and adjust height and tilt).



ADJUST STEERING WHEEL

Adjust the steering wheel to the desired driving position by moving the control on the left side of the steering column.

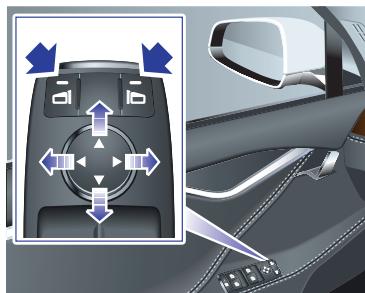


ADJUST MIRRORS

Push the button associated with the mirror you want to adjust (left or right), then press the dial to move the mirror to the desired position.

Mirror auto-tilt

To improve your viewing angle when backing up, exterior mirrors tilt downward. You can adjust this auto-tilt position by shifting into Reverse (R) gear before making the mirror adjustment.



To turn off the auto-tilt feature, touch CONTROLS > SETTINGS > VEHICLE > MIRROR AUTO-TILT > OFF.



WARNINGS:

Do not make adjustments while driving. Doing so increases the likelihood of a collision.

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.

INTERIOR AND EXTERIOR LIGHTS



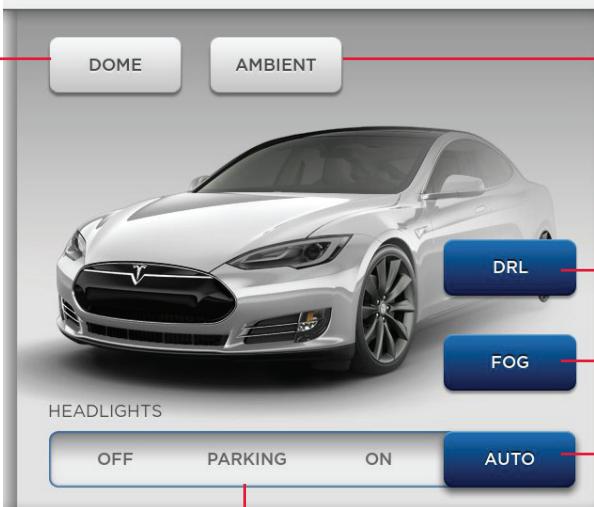
Touch CONTROLS on the bottom left corner of the touchscreen to control most of the lights. Model S also features convenience lights that turn on and off automatically based on what you're doing. For example, you'll notice interior lights, marker lights, tail lights, and puddle lights that turn on when you unlock Model S, when you open a door upon exiting, and when you shift into P (Park). Then, after a minute or two, or when you shift into a driving gear, they turn off.

If DOME lights are set to AUTO, interior lights turn on when you unlock Model S, open a door upon exiting, or shift into P (Park). They turn off after 60 seconds, when you lock Model S or when you shift into a driving gear.



Press the lens on an individual dome light to control it manually. If you manually turn a light on, it turns off when Model S powers off. If power was already off when you turned it on, it turns off after 60 minutes.

LIGHTS



If you set headlights to PARKING, only the side marker lights, parking lights, tail lights, and license plate lights turn on.

If selected, interior lights on the door armrests turn on whenever headlights are on.

If selected, daytime running lights operate when driving with headlights off. In jurisdictions where required by law, you can't turn these off.

If selected, front fog lights operate only when headlights are on (LED fog lights are available if your Model S is equipped with the Tech Package).

Headlights, tail and licence plate lights automatically turn on when driving in low lighting conditions. If you change this setting, it reverts back to AUTO each time Model S restarts. Push the left steering column lever to turn on high beams.

A UNIQUE DRIVING EXPERIENCE

When driving Model S, the following characteristics may be unlike any other vehicle you've driven:

- Regenerative braking - when you take your foot off the accelerator when driving, regenerative braking slows the vehicle and feeds energy back to the Battery. To minimize how much the vehicle slows down, you can use the touchscreen to set regenerative braking to LOW (see page 8).
- If equipped with Active Air Suspension, Model S lowers its suspension at higher speeds to optimize aerodynamics and increase range. It also lowers to load and unload passengers, provided all doors are closed. When Model S starts, you may hear the compressor as it fills the system's reservoir with air.

You can use the touchscreen to manually control the height of Model S (see page 8). For example, you may want to raise the suspension to very high to improve ground clearance when driving up ramps and over speed bumps.

IMPORTANT! Before jacking/lifting/transporting Model S, you must disable Active Air Suspension by touching the JACK option.

- Everything you need to know when driving Model S displays on the instrument panel. So please do not read the touchscreen while driving.



WARNING: Do not read the touchscreen while driving. Doing so increases the likelihood of a collision.

DRIVING TIPS FOR MAXIMUM RANGE

The amount of energy consumed depends on your driving habits and environmental conditions.

Here are a few tips to maximize driving range:

- Keep in mind that driving at high speeds (such as a freeway speed) decreases range.
- Avoid frequent rapid acceleration and anticipate stops to maximize regenerative braking.
- Instead of using the brake pedal to slow down, move your foot off the accelerator. Whenever the vehicle is moving and your foot is off the accelerator, regenerative braking slows the vehicle and feeds energy back to the Battery.
- Keep tires at the recommended inflation pressures.
- Lighten your load by removing any unnecessary cargo.
- Limit the use of resources such as heating and air conditioning. Using seat heaters to keep warm is more efficient than heating the cabin.

The power meter on the instrument panel, and the Energy app (selectable from the apps section in the top area of the touchscreen), provide feedback on energy usage. With this feedback, you'll soon become familiar with how driving habits and environmental conditions impact how much energy you're using.

CRUISE CONTROL

To operate cruise control

- Press the end of the cruise control lever (you must be driving over 20 mph). The light on the lever turns on.
- Accelerate until you reach your desired cruising speed.
- Briefly move the cruise control lever up or down, then release.

The speedometer displays the CRUISE ON message and an indicator shows the set speed.

Driving in cruise control

You can accelerate as usual to increase your speed, but when you release the accelerator, Model S returns to your set speed.

To pause and resume cruise control

To temporarily pause cruise control, briefly push the cruise control lever away from you. The message on the instrument panel turns off, but the set speed remains displayed. To resume at the previously set speed, briefly pull the cruise control lever toward you.



To increase or decrease cruising speed

For 1 mph increments, push the lever up (increase) or down (decrease) to the first position.

For 5 mph increments, push the lever up (increase) or down (decrease) to the second position.

To adjust speed by 2 mph per second, hold the lever in the up (increase) or down (decrease) position, then release when you reach your desired speed.



To turn off cruise control

Press the end of the cruise control lever. The light on the lever turns off.

NOTES:

Cruise control is cancelled and the set speed is cleared if you press the brake, drive below 20 mph, or if you shift into R (Reverse), P (Park) or N (Neutral) while driving.

When adjusting the set cruising speed, it may take several seconds for Model S to make the adjustment.

PLUGGING IN

The charge port is located on the driver's side of the vehicle behind a door that forms part of the rear tail light. With your key nearby, press and hold the button on a Tesla charging cable and the charge port door opens. If the cable you are using doesn't have this button, touch CONTROLS > CHARGE PORT on the touchscreen (located in the DOORS & LOCKS area as shown on pages 8 and 10). You can also open it by touching the battery icon on the top of the touchscreen, then touching OPEN CHARGE PORT.

NOTE: To charge at a public charging station, attach the J1772 adapter (supplied with your Model S) to the station's charging cable.

When you plug in the charging cable, a light around the charge port pulses green during charging and the instrument panel displays charging information (see next page).

When charging is complete, the light around the charge port stops pulsing and the light turns solid green. Press and hold the button on the charging cable (if applicable), then pull the cable out of the charge port. Push the charge port door closed.

HOW LONG DOES IT TAKE?

Recharge rates are variable and depend on many factors including whether your Model S is equipped with a single charger or twin chargers. Driving distances also vary depending on your driving habits, the age of the Battery, and environmental conditions such as extreme weather and hilly roads. The most up-to-date information on charging and driving distances is available at www.teslamotors.com.



NOTES ABOUT CHARGING

- Tesla strongly recommends leaving Model S plugged in when not in use. This maximizes the lifetime of the Battery (see page 25).
- When you plug in, a latch on the charge port holds the charging cable in place.
- If Model S is in any other gear when you plug it in, it automatically shifts into Park.
- If the Battery requires heating or cooling, you may notice a delay before charging begins. Heating or cooling starts automatically when you plug in, and charging begins when the Battery reaches the appropriate temperature.
- Model S will not drive when a charging cable is attached, so there's no risk of driving away when plugged in.
- If you lock Model S during charging, the charge port light does not illuminate but the vehicle continues to charge.
- If an error occurs during charging, the light around the charge port is red and the instrument panel or touchscreen displays information about the error.
- When Model S is fully charged, charging stops automatically and the green light around the charge port stops pulsing.
- To prevent unauthorized unplugging of the charging cable, Model S must be unlocked or able to recognize a key before you can disconnect the charging cable.
- To stop charging without unplugging the charging cable, touch STOP CHARGING on the touchscreen.
- If an electrical power outage occurs, charging resumes automatically when power is restored.
- For details about your charging connector, refer to the documentation provided with the connector.

CHANGING CHARGE SETTINGS

The charge settings screen displays on the touchscreen whenever the charge port door is open. You can also display it at any time by touching the battery icon on the top of the touchscreen.

Two charge levels

- By default, Model S charges to the STANDARD charge level, which provides the fastest charging time and maximizes the life of the Battery by charging it to less than its full capacity.
- To drive as far as possible, change the charge level to MAX RANGE. Although this setting charges the Battery to full capacity, using it frequently reduces Battery life.



If you change the charge level, Model S remembers. To change the level for one session only, you need to manually change it back again.

Charge current

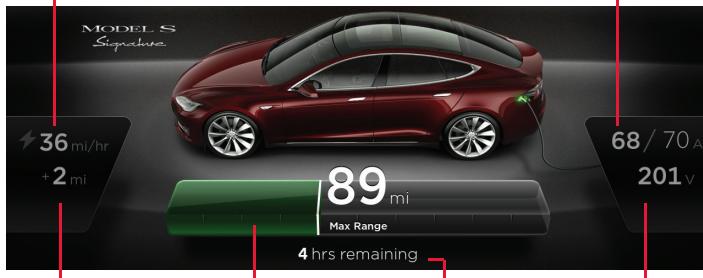
The current automatically sets to the maximum current available from the attached charging cable, unless it was previously reduced to a lower level.

If needed, you can change the current by touching the up/down arrows. You may want to reduce the current if you're concerned about overloading a domestic wiring circuit shared by other equipment. When you change the current, Model S remembers the location for which you changed it. So if you subsequently charge at the same location, you don't need to re-adjust. Keep in mind that reducing the current increases charging time.

CHARGING STATUS

Charging rate per hour.

Current being supplied / Total current available.



Estimated increase in driving distance* now available (and an indication achieved so far in this charging session).

Total driving distance* now available (and an indication if you are charging to Max Range).

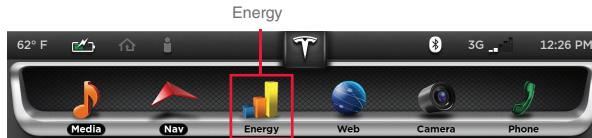
Time remaining until fully charged at the currently selected charge level.

Voltage being supplied by the charging cable.

* Instead of driving distance, you can change settings to display energy. Touch CONTROLS > SETTINGS > UNITS & FORMAT.

UNDERSTANDING ENERGY USE

Touch the Energy app on the touchscreen to display a graph showing how much energy Model S is using.



The graph visually shows projected range and energy consumption. The projected range is based on consumption over the last tenth of a mile. You can adjust the graph to temporarily display the projected range based on the average amount of energy used over the past 5, 15, or 30 miles (or 10, 25, or 50 kms).

WIPERS AND WASHERS

To wipe the windshield, rotate the end of the lever away from you. You can choose from four levels:

- 1st: Auto with low rain sensitivity.*
- 2nd: Auto with high rain sensitivity.*
- 3rd: Continuous, slow.
- 4th: Continuous, high.



For a single wipe, press and release the end of the lever.

If the wipers are set to Auto and the sensor detects no water/dirt, the wipers do not wipe.

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

* Model S has a rain sensor located on the inside of the windshield at the base of the interior rear view mirror. When wipers are set to Auto, the frequency at which they wipe depends on how much water/dirt the sensor detects. When you set wipers to the 2nd level, the sensor is more sensitive.

Windshield washers

Press and hold the end of the lever to spray washer fluid onto the windshield. The wipers turn on. When you release, the wipers turn off after wiping the windshield a couple more times.



HAZARD WARNING FLASHERS

Press the switch located to the left of the touchscreen to turn on the hazard warning flashers. All turn signals flash. Press again to turn off.

NOTE: The hazard warning flashers operate even when the key is not in the vehicle.



GLOVE BOX

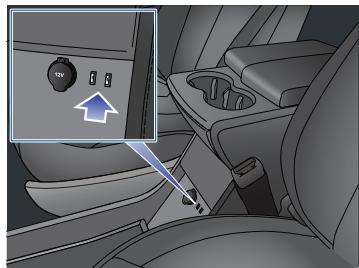
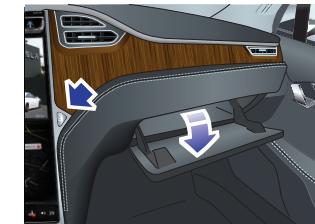
Press the switch located to the right of the touchscreen to open the glove box.

ACCESSORY CONNECTIONS

Two USB ports and a power socket are located on the front of the center console. Use a USB port to connect USB flash drives and portable audio devices to the touchscreen, or to charge other devices. To play music from a connected device, see page 20.

Do not connect multiple devices using a USB hub. This can prevent the devices from charging or being recognized.

Power from the socket is available whenever Model S is powered on. This 12V power socket is suitable for accessories requiring up to 15A or a maximum of 180 watts.



CONNECTING YOUR PHONE

With both the phone and the car powered on, follow these steps while sitting inside Model S:

1. On the touchscreen, touch the Bluetooth icon.

The touchscreen displays the Bluetooth window.



2. On your phone, enable Bluetooth and set it to Discoverable.
3. On the touchscreen, touch START SEARCH.

The touchscreen searches then displays a list of all available Bluetooth devices.

4. On the touchscreen, touch the phone to which you want to connect.
- Within a few seconds, the touchscreen displays a randomly generated number, and your phone should display the same number.
5. Check that the number on your phone matches the number on the touchscreen. Then confirm, on your phone, that you want to pair.

When connected, the touchscreen displays the Bluetooth symbol next to the phone name to show that the connection is active.

NOTE: The touchscreen automatically connects to the last phone that was connected. To connect to a different phone, touch the Bluetooth icon and choose the phone you want to connect to from the list of paired phones. If the phone isn't on the list, follow the above steps to add it.

USING YOUR PHONE

To make a call, touch the phone icon on the touchscreen. Then, enter the phone number on the dialer, and touch CALL.

Phone



To receive a call, touch Answer on the touchscreen. You can also use the right steering wheel control to handle phone calls:

- For an incoming call, roll the wheel to highlight Answer or Ignore, then press to select.
- During a call, roll the wheel to the End, Hold, and Continue options, then press to select.

VOICE COMMANDS



You can use voice commands to call a contact, navigate, or listen to Internet music. Press and hold the voice button on the upper right side of the steering wheel. When you hear the tone, speak your command. Release the button when you finish speaking.

- To call a contact, say "Call" or "Dial," followed by the contact's first and/or last name(s). For example, "Call Eric."
- To navigate, say "Drive," "Navigate," or "Where is," followed by an address, business name, business category, or landmark. For example, "Drive to Tesla in Menlo Park."
- To listen to the Slacker 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, "Play Free Fallin by Tom Petty").

USING MEDIA PLAYER

To listen to the radio and play audio files from a connected device (see page 18), touch the Media icon.



If you exit Model S when playing Media Player, when you open any door to re-enter, Media Player resumes playing where it left off. At first, the volume is low. But when you get in and close the driver's door, the volume resumes to the previously set level. When you open the driver's door to exit, the volume is reduced again. When you leave Model S, Media Player stops playing, and the touchscreen and instrument panel turn off.

MEDIA PLAYER CONTROLS

In addition to the touchscreen, you can control the Media player using the left steering wheel controls:

- Scroll the wheel up or down to adjust volume.
- Press and release the scroll wheel to mute/unmute a radio station or pause/play an audio file.
- Press the Previous and Next buttons to find radio stations. If an audio file is playing, this plays the previous or next file in the currently active folder, category, or playlist.



USING INTERNET RADIO

If your Model S is equipped with the Connectivity package, internet radio services* (such as Slacker and TuneIn) have been set up for you and can be selected using Media Player.

*NOTE: Internet radio services that are available vary based on country.

SETTING UP XM RADIO

XM radio is a subscription-based satellite radio service available to you if your Model S is equipped with the Sound Studio package*. To subscribe to XM radio, you need to provide the radio ID for your touchscreen. To view the radio ID, select the XM radio source and tune it to channel 0. The Radio ID displays on the screen.

*NOTE: Sirius XM satellite radio service is not available in Hawaii, Alaska or any location outside of the United States.

PLAYING AUDIO FILES FROM DEVICES

Plug a portable audio device or flash drive into either of the USB connections located on the front of the center console. On the touchscreen, touch MEDIA > BROWSE > MY MUSIC & DEVICES. The contents of your device are displayed.

To play audio files from your Bluetooth connected device, touch the name of your device from the My Music & Devices list. Use your device to change the track and/or use the left steering wheel controls to play the next or previous track.

ADDING AND REMOVING FAVORITES



From the Now Playing screen that displays whenever you play audio, touch the Favorites icon to add the song or station to your Favorites list. A blue icon indicates that it has been added to your Favorites. Touching the icon again removes it from your Favorites.

To play a Favorite audio file or radio station, touch BROWSE > FAVORITES. To remove a Favorite, touch the corresponding X.

If you're playing a radio station when you touch the Favorites icon, the station is assigned to one of the preset buttons if an empty slot is available. You can also assign a radio station to a preset button by touching and holding the preset button you want to assign. You can store up to six presets for each radio source.

NAVIGATING

If your Model S is equipped with the Tech Package option, touch the Nav icon to display the navigation app.

To enter a destination, touch the search box and a keyboard appears. Use the keyboard to type the destination, then touch ENTER. A list of matching destinations are displayed, sorted by relevance and distance. Touch and drag the list to scroll up or down. To choose a destination, touch an entry in the list or on the map. If your desired destination is not listed, touch the search bar again to change your search information.

The touchscreen displays the route to your destination on the map and provides directions, travel time, distance, and estimated arrival time. The target destination is marked on the map and directions are accompanied by spoken instructions. Depending on zoom level, you may not be able to see the entire route, but as you drive, the map adjusts to show the current segment of the route. At any time during a navigation session, you can cancel navigation or mute the spoken instructions. When a navigation route is active, the instrument panel also displays directions.



Touch the search box to display a keyboard used to enter a specific destination. You can also search for destinations by entering business names, category names, etc.



Display a list of recent places you've searched for, or navigated to.



If the results of a business you're searching for includes a phone number, you can press CALL to dial the number automatically from a Bluetooth-connected phone.

Repeat the last search.

Center the map on your current location.

Zoom in and out. You can also pinch your thumb and forefinger on the map to zoom out or stretch to zoom in. To change the map's default magnification level, touch CONTROLS > SETTINGS > APPS > MAPS & NAVIGATION.

Switch between map and satellite views.

Turn the display of traffic on and off.

Touch and drag the map to display an area outside of the current view.



CLEANING THE EXTERIOR

To prevent damage to the vehicle's paint, immediately remove corrosive substances (bird droppings, tree resin, dead insects, tar spots, road salt, industrial fall-out, etc.). Do not wait until your vehicle is due for a complete wash. If necessary, use denatured alcohol to remove tar spots and stubborn grease stains then, after cleaning, immediately wash the area with water and a mild, non-detergent soap to remove the alcohol.

Rinse the vehicle thoroughly

Before washing, flush grime and grit from the bodywork using a hose. Flush away accumulations of mud in areas where debris easily collects (such as wheel arches 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.

Take care when removing caked-on dirt or other foreign substances to avoid scratching the paint surface.

Hand wash with a soft cloth and mild soap

Hand wash Model S using a soft cloth and cold or lukewarm water containing a mild, good quality car shampoo.

Rinse with clean water

After washing, rinse with clean water to prevent soap from drying on the surfaces.

Dry thoroughly and clean exterior glass

After washing and rinsing, dry thoroughly with a chamois.

Clean windows and mirrors using an automotive glass cleaner. Do not scrape, or use any abrasive cleaning fluid on glass or mirrored surfaces.



CAUTIONS:

Do not use hot water and detergents.

In hot weather, do not wash in direct sunlight.

If using a pressure washer, maintain a distance of at least 12 inches between the nozzle and the vehicle. Keep the nozzle moving and do not concentrate the water jet on any one area.

Do not aim water hoses directly at window, door or hood seals, or through wheel apertures onto brake components.

Avoid using tight-napped or rough cloths, such as washing mitts.

If washing in an automatic car wash, use "Touchless" car washes only. These car washes must have no parts, such as brushes, that can touch Model S. Using any other type of car wash could cause damage that is not covered by the warranty.

Do not use chemical based wheel cleaners—these can damage the finish of the wheel.



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.

Airbag covers

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 may interfere with your driving view.

Leather

Leather is prone to dye-transfer which can cause discoloration, particularly on light colored leather. White and tan leather is coated with an anti-soiling treatment. 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. Using detergents or commercially available leather cleaners and conditioners is not recommended because they can discolor or dry out the leather.

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.

Do not allow water, cleaners, or fabric from cloths to enter a seat belt mechanism. This could affect operation of the seat belt.

Touchscreen and instrument panel

Clean the touchscreen and instrument panel using a soft lint-free damp cloth or a cleaning wipe specifically designed to clean monitors and displays. Do not use glass cleaner or other cleaning solutions.

Chrome and metal surfaces

Polish, abrasive cleaners, or hard cloths can damage the finish on chrome and metal surfaces.

MAINTAINED BY TESLA

Regular maintenance is the key to ensuring the continued reliability and efficiency of your Model S. Take Model S to Tesla every:

12,500 MILES, OR 12 MONTHS

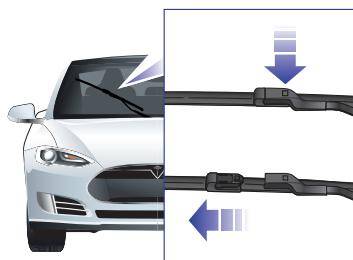
whichever comes first

Maintenance and service must be performed by Tesla-certified technicians. Damages or failures caused by maintenance or repairs performed by non-Tesla certified technicians are not covered under the warranty.

CHECK AND REPLACE WIPER BLADES

Periodically check and clean the edge of the wiper blade and check the rubber for cracks, splits and roughness. If damaged, replace the blade immediately to prevent damage to the glass:

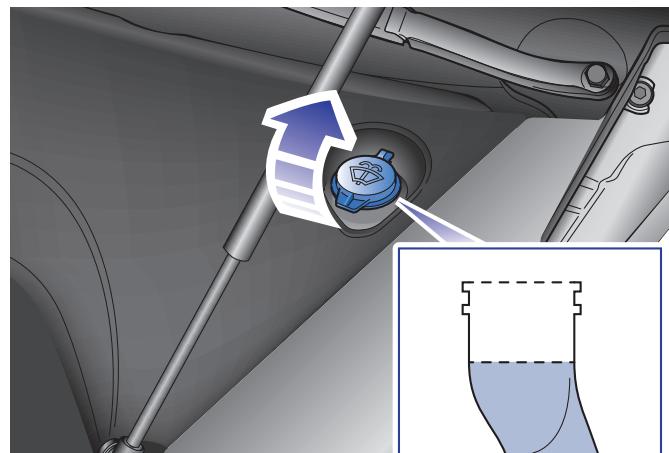
- Lift the wiper arm away from the windshield.
- Depress the locking tab while sliding the blade out of the arm. You may need to tilt the blade toward you to slide the blade out of its position.
- Position the new blade on the wiper arm and slide toward the hooked end of the arm until it locks into place.
- Position the wiper arm with the blade against the windshield.



NOTE: For optimum performance, Tesla recommends replacing wiper blades at least once a year.

TOP UP WASHER FLUID ONLY

Model S has only one reservoir into which you can add fluid. This is the washer fluid reservoir under the front trunk. When the level is low, a message displays on the instrument panel. Fill until the fluid is visible just below the filler neck.



Under no circumstances do you need to inspect or top up other fluid reservoirs. Two additional fluid reservoirs are located next to the washer fluid, but underneath the maintenance access panel. In the unlikely event that you see a message on the instrument panel that one of these fluid levels is low, stop Model S as soon as safe to do so, and contact Tesla.

NOTE: Adding fluid to the Battery coolant reservoir voids your warranty.

BATTERY CARE

Your Model S Battery is one of the most sophisticated battery systems in the world. The most important way to preserve the Battery is to **LEAVE YOUR MODEL S PLUGGED IN** when you're not using it. This is particularly important if you are not planning to drive your Model S for several weeks. When plugged in, Model S wakes up when needed to automatically maintain a charge level that maximizes the lifetime of the Battery.

There is no advantage to waiting until the Battery's level is low before charging. In fact, the Battery performs best when charged regularly.

Never allow the Battery to fully discharge

Even when you're not driving Model S, the Battery discharges very slowly to power the onboard electronics. On average, the Battery discharges at a rate of 1% per day. Situations can arise in which you must leave Model S unplugged for an extended period of time (for example, at an airport when travelling). 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 discharges by approximately 14%.

Discharging the Battery to 0% may permanently damage the Battery. To protect against a complete discharge, Model S enters a low-power consumption mode when the charge level drops to 5%. In this mode, the Battery stops supporting the onboard electronics to slow the discharge rate to approximately 4% per month. Once this low-power consumption mode is active, it's important to plug in Model S within two months to avoid Battery damage.

NOTE: When the low-power consumption mode is active, the auxiliary 12V battery is no longer being charged and can completely discharge within 12 hours. In the unlikely event this occurs, you may need to "jump start" or replace the 12V battery before you can charge. In this situation, contact Tesla.

Temperature limits

Do not expose Model S to ambient temperatures above 140° F (60° C) or below -22° F (-30° C) for more than 24 hours at a time.



WARNING: The Battery has no parts that an owner, or a non-Tesla authorized technician, can service. Under no circumstances should you open or tamper with the Battery. Always contact Tesla Motors to arrange for Battery servicing.



CAUTION: If the Battery's charge level falls to 0%, you must plug it in. If you fail to do so within a month, you can permanently damage the Battery. This damage is not covered by the warranty. If the Battery falls to a critically low level for an extended period of time, it may not be possible to charge or use the vehicle without jump starting or replacing the 12V battery. If you are unable to charge the vehicle, contact Tesla.



At the end of its service life, recycle the Battery. Contact Tesla for recycling information.

MAINTAIN PROPER TIRE PRESSURES

Keep tires inflated to the pressure shown on your Model S Tire and Loading Information label located on the driver's door pillar (even if it differs from the pressure printed on the tire itself).



The tire pressure warning on the instrument panel alerts you if one or more tires is under-inflated. Stop and check pressures as soon as possible. The warning turns off when you drive above 25 mph (40 km/h) for more than 10 minutes with tires at the recommended pressures.

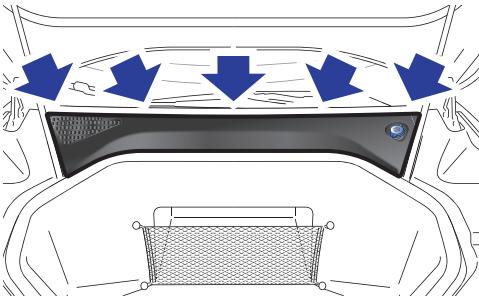
NOTE: If, when starting Model S, the tire pressure warning flashes for a minute, then remains on, the Tire Pressure Monitoring System (TPMS) system may be malfunctioning. Contact Tesla.

REPLACING FUSES

Three fuse boxes are located under the maintenance access panel, located in the front trunk.

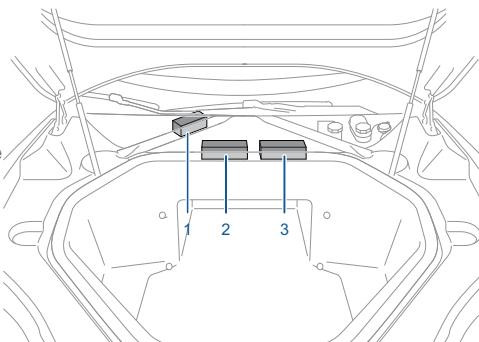
To remove the maintenance panel:

- Pull the rear edge of the panel upward to release the five clips that secure the panel.
- Maneuver the access panel toward the windshield to remove.



IMPORTANT! The maintenance access panel protects the front trunk from water. When re-attaching, make sure it is fully seated.

To remove the fuse box covers, press the plastic tabs on either side to release.



Identify the fuse protecting the affected circuit and pull to remove. A break in the wire inside the fuse indicates that the fuse has blown.

Do not replace fuses in fuse box 1 and do not remove or replace relays. If one of these fails, contact Tesla.

Fuse box 1 (must be replaced by Tesla)

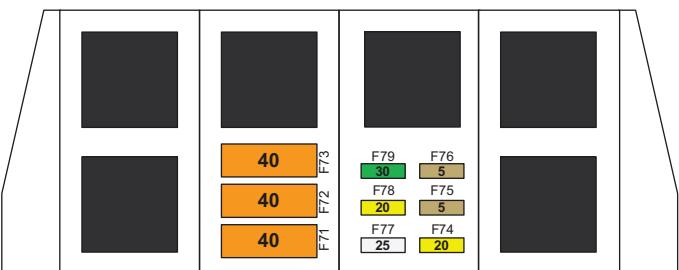
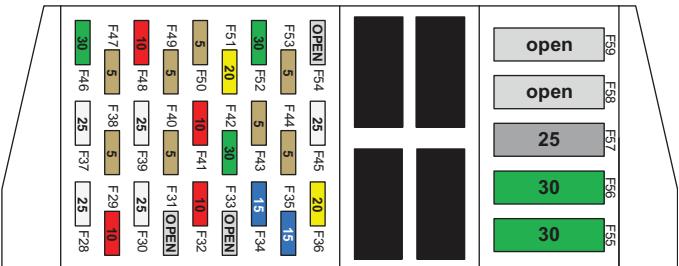
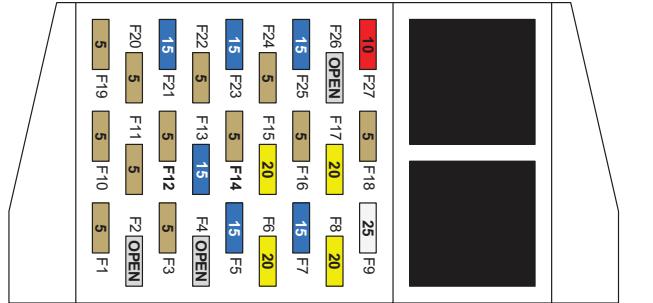
1	ACC sense, radio, USB hub	15	Electric parking brake
2	Not used	16	Not used
3	Vanity lights, rear view mirror	17	Electric parking brake
4	Not used	18	Not used
5	Seat heater (driver seat)	19	In-car sensor for HVAC
6	Base audio amplifier	20	Cabin air heater logic
7	Seat heater (passenger seat)	21	Battery coolant pump 1
8	Premium audio amplifier	22	Inlet actuators
9	Sunroof	23	Powertrain coolant pump
10	Passive safety restraints	24	Cabin climate control
11	Steering column controls	25	Battery coolant pump 2
12	Drive power sense	26	Not used
13	Wiper park	27	Thermal controller
14	Drive inverter		

Fuse box 2

28	Window lift motor (right rear)	44	Charger (charge port)
29	Contactor Power	45	Passive entry (horns)
30	Window lift motor (right front)	46	Body controls (group 2)
31	Not used	47	Glove Box Light
32	Door controls (right side)	48	Body controls (group 1)
33	Not used	49	Instrument panel
34	Not used	50	Siren, intrusion/tilt sensor
35	12V power socket	51	Touchscreen
36	Air suspension	52	Heated rear window
37	Window lift motor (left rear)	53	Battery management system
38	Driver's Seat Memory	54	Not used
39	Window lift motor (left front)	55	Left front electric seat
40	Rear door handles	56	Right front electric seat
41	Door controls (left side)	57	Cabin fan
42	Powered liftgate	58	Not used
43	Permanent power sensor (brake switch)	59	Not used

Fuse box 3

71	Condenser fan (left)	76	ABS
72	Condenser fan (right)	77	Stability control
73	Vacuum pump	78	Headlights - high/low beam
74	12V drive rail (cabin)	79	Lighting - exterior/interior
75	Power steering	19	Not used



USING HOMELINK®



If your Model S is equipped with the Tech Package option, you can program the HomeLink® Universal Transceiver to operate up to three garage doors, gates, lights, or security systems that can transmit Radio Frequency (RF) signals.

To program HomeLink:

1. Park in front of the device you want to program, and have the device's remote control ready.
2. Touch CONTROLS > SETTINGS > HOMELINK on the touchscreen.
3. Touch the ENTER NAME box, then use the on-screen keyboard to enter a name for your HomeLink device.
4. Touch CREATE HOMELINK.
5. Follow the on-screen instructions.

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.

SOFTWARE UPDATES

Model S updates its software wirelessly, providing new features throughout your term of ownership. The first time you enter Model S after an update is made available, a scheduling window displays on the touchscreen.

IMPORTANT! A software update takes up to two hours to complete, and Model S must be in Park (P) when the new software is installed.



When a software update is available, a yellow clock icon appears in the status bar. Once scheduled, the clock icon becomes white.

NOTES:

You can reschedule the installation any time before it begins by touching the clock icon in the touchscreen's status bar to display the software update window.

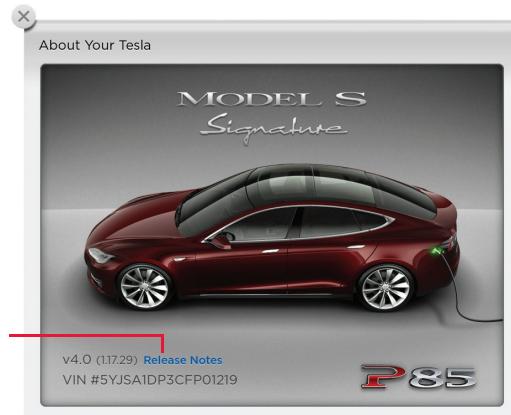
If Model S is charging when the software update begins, the charging process stops and resumes when the update is complete. If you are driving Model S when the update is scheduled, the update is cancelled.

If the touchscreen displays a message indicating that a software update was not completed, contact Tesla.

RELEASE NOTES

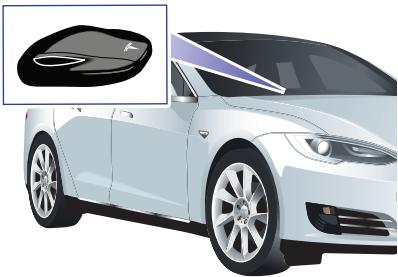
Immediately after a new version of software is installed, the touchscreen displays Release Notes describing the new or changed features.

You can display Release Notes any time by touching the Tesla "T" at the top center of the touchscreen, and then touching the Release Notes link.



OPENING EXTERIOR DOORS IF KEY DOESN'T WORK

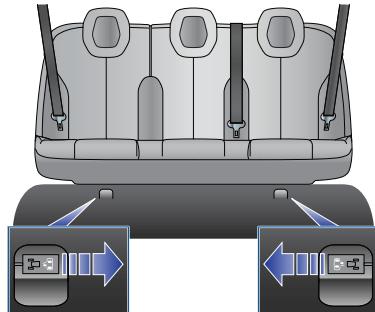
If the vehicle doesn't unlock when you walk up to it, or when you press the unlock button on your key, it is possible that the key's battery is dead. If this is the case, you can unlock the passenger door by positioning the key near the base of the passenger side windshield wiper, as shown. Then press the front passenger door handle to open Model S.



OPENING INTERIOR DOORS WITH NO POWER

If Model S has no electrical power, open doors as described here:

- Front doors open as usual by fully extending the interior door handles.
- To open rear doors, fold back the edge of the carpet below the rear seats to expose the mechanical release cable, as shown here. Pull the mechanical release cable toward the center.



OPENING TRUNKS WITH NO POWER

If Model S has no electrical power, open trunks as described here:

- To open the front trunk, pull the release lever located below the glove box.

Then push down on the secondary catch lever on the front trunk and lift to open. You may need to push the hood down slightly to release the pressure against the secondary catch.

- To open the rear liftgate, pull the cover from the mechanical release located on the underside of the liftgate, next to the trunk's interior light. Then pull the mechanical release.



JACKING OR LIFTING

Follow the steps below to lift Model S. Ensure that any non-Tesla repair facility is aware of these lifting points.

1. Position Model S centrally between the lift posts.
2. If Model S is equipped with Active Air Suspension, it automatically self-levels, even when power is off. YOU MUST use the touchscreen as follows to disable it:



- Touch CONTROLS on the bottom left corner of the touchscreen.
- Press the brake pedal, then touch VERY HIGH to raise the suspension to its maximum height.*
- Touch JACK** to disable self leveling.

* See page 32 for an illustration of the above suspension settings.

** JACK mode automatically cancels if you drive over 4.5 mph (7 km/h).

3. Position the lift arm pads under the body rails at the locations illustrated on this page. DO NOT position the lift arm pads under the Battery.
4. Adjust the height and position of the lift arm pads to ensure they are correctly located.
5. With assistance, raise the lift, ensuring the lift arm pads remain in their correct position.

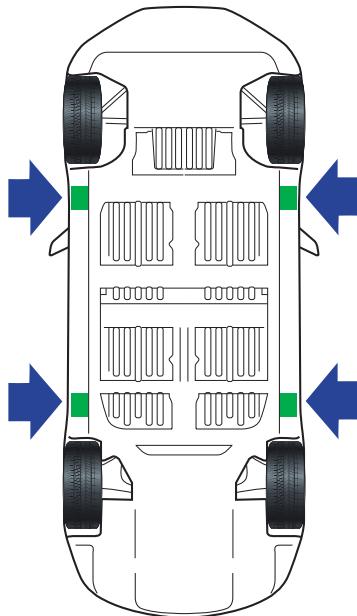


WARNINGS:

If your Model S has Active Air Suspension, it automatically self-levels even when power is off. You MUST disable this system by engaging JACK mode before lifting. If you do not disable Active Air Suspension, Model S can attempt to self-level, causing serious damage, bodily injury, or death.

Never raise Model S when the charging cable is connected, even if charging is not in progress.

Do not work on an incorrectly supported vehicle. Doing so can cause serious damage, bodily injury, or death.



DO NOT LIFT FROM UNDER THE BATTERY!
DOING SO CAN CAUSE DAMAGE.



CAUTIONS:

Place the lift pads under the body rails—DO NOT lift from under the Battery. The locations illustrated are the only approved lifting points for Model S. Lifting at any other points can cause damage not covered by the warranty.

Use a suitable rubber or wood pad to protect the body from surface damage.

TRANSPORTING MODEL S

Use a flatbed trailer only. Do not TOW! To avoid damage, follow instructions exactly as described.



Prepare Model S for pulling

1. Press the brake pedal and shift into Neutral (N). This disengages the parking brake (be sure to follow step 3 to keep Model S in Neutral).
2. If your Model S is equipped with Active Air Suspension, it automatically self-levels, even when power is off. YOU MUST press the brake pedal, then use the touchscreen to set the suspension as follows:



Touch **CONTROLS** on the bottom left corner of the touchscreen.

The screenshot shows the Tesla touchscreen interface with the following details:

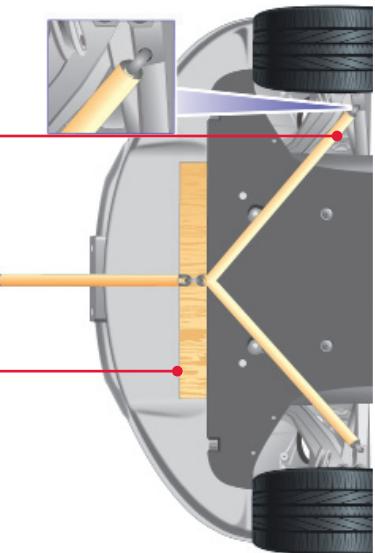
- SUSPENSION:** A dropdown menu is open for "Driving". The "VERY HIGH" option is highlighted with a red arrow. Other options include HIGH, STANDARD, and LOW.
- E-Brake & Power Off:** A button labeled "JACK" is highlighted with a red arrow.
- DOORS & LOCKS:** Buttons for FRONT TRUNK, LOCK, UNLOCK, CHARGE PORT, and TRUNK.
- LIGHTS:** Buttons for DOME, AMBIENT, HEADLIGHTS, DRL, FOG, OFF, PARKING, ON, and AUTO.
- REGENERATIVE BRAKING:** Buttons for STANDARD and LOW.
- CREEP:** Buttons for OFF and ON.
- STEERING MODE:** Buttons for COMFORT, STANDARD, and SPORT.
- TRACTION CONTROL:** Buttons for OFF and ON.
- CHARGING:** A small icon in the top right corner indicates "CHARGING".

3. To keep the gear in Neutral, power Model S off manually by touching **CONTROLS > E-BRAKE & POWER OFF > POWER OFF**. If you don't power off manually, Model S automatically shifts into Park when you open the door.



Connect the tow chain

Attach the tow chains using the large hole on each of the rear lower suspension arms.



Place a 2 inch x 4 inch piece of wood between the tow chains and the underbody as illustrated. Adjust the location of this wood as necessary to protect the underbody.

Pull onto the trailer and secure the wheels

Secure wheels using chocks and tie-down straps:

- Ensure metal parts on tie-down straps don't contact painted surfaces or the face of the wheels.
- Don't place straps over body panels or through wheels.



CAUTIONS:

You must transport Model S using a flatbed trailer or transporter. NEVER TOW!

Follow procedures exactly as described. Serious damage can occur if you don't. Any damage caused by transporting is not covered by the warranty.

If the electrical system isn't working, you can't put Model S into Neutral and the parking brake won't disengage. If this is the case, use wheeled dollies or skid pads under the rear wheels.

Active Air Suspension automatically levels Model S, even when power is off. If you don't put Model S in JACK mode, Active Air Suspension automatically attempts to self-level, which may cause Model S to become loose during transport, resulting in damage or injury.

Before pulling, make sure the wood is secure and properly positioned between the underbody and the tow chain to reduce pressure from the chain.

Attaching straps to the chassis, suspension, or other parts of the body can cause damage.

INDEX

A

ABS warning 5
accessories, connecting 18
active air suspension. *See air suspension*
airbag
 warning light 5
air circulation 7
air conditioning 7
air distribution 7
air suspension
 JACK mode 8
 warning lights 5
alarm 9
app, displaying 6
audio files
 playing 20
auto-present handles
 how they work 2
 setting for 9
auto-tilt mirrors
 enabling 9
 how they work 12

B

Battery
 care of 25
 coolant 24
 range 7
 temperature limits 25
battery icon 17
brakes
 fluid 24
brake warning 5

C

cabin temperature 7
carpets, cleaning 23
car washes 22

charging

 charge port 16
 charge port door, opening 10, 16
 connectors 16
 current 17
 settings 17
 status 17

child protection locks 10

cleaning

 exterior 22
 interior 23

climate controls 7

creep 8

cruise control 15

current 17

customizing 9

D

defrosting 7

destinations, entering 21

doors

 emergency unlocking 30
 locking and unlocking 10
 mechanical release, interior 30
 warning light 5

drive-away locking 3

driving

 energy consumed when 14
 how to 3
 to maximize range 14

E

e-brake 3

emergency flashers 18

energy consumption 14

energy used, displaying 17

exterior cleaning 22

F

fan speed, setting 7

favorites, adding and removing 20

flashers 18

front trunk

 opening manually 30
 unlocking using key 2
 unlocking using touchscreen 10

fuses

 accessing 26
 list of 27

G

garage doors, opening 9, 28

gears, selecting 3

glove box, opening 18

H

hazard lights 18

headlights

 after exit, setting 9
 controlling 13
 indicator light 5

heating 7

High Power Wall Connector 16

HomeLink 28

I

indicator lights 4, 5

instrument panel 4

 cleaning 23

interior cleaning 23

J

jacking 31

JACK mode 32

K

keep displays powered
 setting for 9

key

 not detected 3
 using 2

L

leather, cleaning 23

liftgate

 opening and closing 10
 setting height of 11

lifting 31

lights

 controlling 13

 exterior 13

 interior 13

locking

 drive-away 3

 using key 2

 walk-away 3

M

maintenance 24

maps 21

max range charge 17

mirrors

 adjustments 12
 auto-tilt setting 9

mobile apps 9

Mobile Connector 16

N

navigating 21

Neutral gear, staying in 32

P

parking 3

 brake warning light 5
 parking brake 3

phone 19

 Bluetooth connection 19
 connecting 19
 using 19

plugging in 16

power consumption 14

powered liftgate 10

power meter 4

power off 3

power on 3
power socket 18
preferences 9
pressure washer 22
pulling 32
push brake message 3

R

radio
over the internet 20
using Media Player 20
XM, setting up 20
radio station presets 20
rain sensor 18
range
climate control, effect on 7
maximizing 14
max range charge setting 17
range mode, setting 9
rear windows
disabling switches 11
heating 7
regenerative braking
how it works 14
releasing notes, displaying 29
remote access, setting 9

S

seat
adjustment for drivers 12
lumbar support 12
seat belt warning 5
seat heaters 7
settings, vehicle 9
software updates 29
speedometer 4
spoken commands 19
standard charge 17
starting 3
steering wheel
adjust position of 12
buttons 4
sunroof controls 11

suspension
JACK mode 32
SYNC temperature 7

T

temperature, adjusting 7
temperature, units 9
time, format of 9
tire pressures
label for 26
warning light 5, 26
touchscreen
brightness 6
cleaning 23
controls window 8
overview of 6
settings window 9
tow chain, connecting 33
towing 32
traction control
message when turned on 4
warning light 5
transporting 32
trunk
opening and closing 10
using the key 2
won't close 10

U

units 9
unlocking
doors 10
trunks 10
using key 2
using touchscreen 10
when key doesn't work 30
USB
connecting devices 18
playing audio files 20
using touchscreen 10

V

ventilation 7
voice commands 19
volume control 6

W

walk-away locking
how it works 3
setting for 9
warning flashers 18
warning lights 5
washer fluid, topping up 24
washers 18
washing
exterior 22
interior 23
windows
controlling 11
disabling rear switches 11
sunroof controls 11
windshield washers 18
windshield wipers 18
wipers 18
replacing blades 24

X

XM radio setup 20

SEE ALSO

For printed information describing Model S safety features and considerations (including airbags, seat belts, child safety seats, rear facing child seats, tires, wheels, loading, and consumer information), see the document titled "OWNER SAFETY INFORMATION," included in your owner documentation package.

TESLA

3500 Deer Creek Road
Palo Alto, CA 94304