

# MODEL S QUICK GUIDE

- ► ROADSIDE ASSISTANCE
- ► SAFETY INFORMATION
- ► WARRANTY (NORTH AMERICA)



The full Owner's Manual and Warranty documents are on your Model S touchscreen (touch **Controls > Settings > Manual**). These digital versions will continuously update as the software on your car updates, ensuring that the latest features are properly documented long after your purchase.

More information about your Model S is available at **www.teslamotors.com/mytesla**.

To contact Tesla, 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 Model S 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.

#### **ERRORS OR OMISSIONS**

To communicate any inaccuracies or omissions in this document, please send an email to: ownersmanualfeedback@teslamotors.com.

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MODEL S

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# ROADSIDE ASSISTANCE

Tesla Roadside Assistance is available to you, 24 hours a day, 365 days a year, throughout the United States and Canada for the duration of your warranty period. To contact Roadside Assistance, call 1-877-79TESLA (1-877-798-3752).

Advise the representative of the vehicle identification number (VIN), license plate number, mileage, your location, and the nature of the problem. The VIN is on the upper dashboard on the driver's side of your vehicle and is visible through the windshield.

Roadside Assistance covers transportation of Model S for up to 50 miles in the event of a flat tire. However, owners are responsible for transportation expenses if the Battery is over-discharged. For a complete description of the terms and conditions of the Tesla Roadside Assistance Program, refer to the policy that was provided to you by Tesla when you purchased Model S.

It is your responsibility to provide vehicle transporters with instructions on how to transport Model S.

# INSTRUCTIONS FOR TRANSPORTERS

## Use a Flatbed Only

Use a flatbed trailer only, unless otherwise specified by Tesla. Do not transport Model S with the tires directly on the ground. To transport Model S, follow the instructions exactly as described. Damage caused by transporting Model S is not covered by the warranty.



# Disable Self-Leveling (air suspension vehicles only)

If Model S is equipped with Active Air Suspension, it automatically self-levels, even when power is off. To prevent damage, use the touchscreen to activate Jack mode, which disables self-leveling:

- 1. Touch **CONTROLS** on the bottom left of the touchscreen.
- 2. Press the brake pedal, then touch Controls > Driving > Very High to maximize height.
- Touch Jack.



When Jack mode is active, Model S displays this indicator light on the instrument panel, along with a message telling you that active suspension is disabled.

NOTE: Jack mode cancels when Model S is driven over 4.5 mph (7 km/h).



CAUTION: Failure to activate Jack mode on a Model S equipped with active air suspension can result in the vehicle becoming loose during transport, which may cause significant damage.

# **Activate Tow Mode**

Model S may automatically shift into Park when it detects the driver leaving the vehicle, even if it has previously been shifted into Neutral. To keep Model S in Neutral (which disengages the parking brake), you must use the touchscreen to activate Tow mode:

- 1. Shift into Park.
- Press the brake pedal, then on the touchscreen, touch Controls > E-Brake & Power Off > Tow Mode.



When Tow mode is active, Model S displays this indicator light on the instrument panel, along with a message telling you that Model S is free-rolling.

NOTE: Tow mode cancels when Model S is shifted into Park.

<u>!</u>

CAUTION: If the electrical system is not working, and you therefore cannot release the electric parking brake, attempt to quick start the 12V battery. For instructions, call the number noted on the previous page. If a situation occurs where you cannot disengage the parking brake, use

tire skids or transport Model S for the shortest possible distance using wheeled dollies. Before doing so, always check the dolly manufacturer's specifications and recommended load capacity.

# **ROADSIDE ASSISTANCE**

#### INSTRUCTIONS FOR TRANSPORTERS CONTINUED

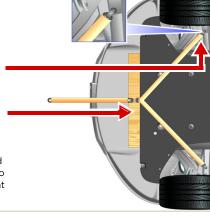
#### Connect the Tow Chain

The method used to connect the tow chain depends on whether Model S is equipped with a towing eye.

# **Lower Suspension Arms**

Attach the tow chains to the large hole on each of the rearmost lower suspension arms, underneath the front of the vehicle.

Place a 2" x 4" piece of wood between the tow chains and the underbody.





CAUTION: Before pulling, position the wood between the tow chain and the underbody to protect the underbody from any damage that could be caused by the tow chain.

# **Towing Eye (if equipped)**

Remove the nose cone by inserting a plastic pry tool into the top right corner, then gently prying the nose cone toward you. When the clip releases, pull the nose cone toward you, without twisting or bending it, to release the three remaining clips.



CAUTION: Do not use a metal object (such as a screwdriver). Doing so can damage the nose cone and the surrounding area.



Fully insert the towing eye (found in the front trunk) into the opening on the right side, then turn it counter-clockwise until securely fastened. When secure, attach the tow chain to the towing eye.



CAUTION: Before pulling, make sure the towing eye is securely tightened.



# **ROADSIDE ASSISTANCE**

#### INSTRUCTIONS FOR TRANSPORTERS CONTINUED

## Pull Onto the Trailer and Secure the Wheels

Secure wheels using chocks and tie-down straps.

Ensure any metal parts on the tie-down straps do not contact painted surfaces or the face of the wheels.

Do not place straps over body panels or through the wheels.



CAUTION: Attaching straps to the chassis, suspension or other parts of the vehicle body may cause damage.



CAUTION: To prevent damage, do not transport Model S with the tires directly on the ground.



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# SAFETY INFORMATION



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## 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 S experiences a force associated with hard acceleration, braking, cornering, or an impact in a collision.



The seat belt reminder on the instrument panel alerts you if a seat belt for an occupied front seat is not

fastened. If the belt remains unfastened, the reminder flashes and an intermittent chime sounds. If all occupants are buckled up and the reminder stays on, refasten 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.

#### To Fasten a Belt



- 1. Ensure correct positioning of the seat.
- 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.
- Insert the latch plate into the buckle and press together until you hear a "click" indicating it is locked in place.

- 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 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 an accident.

#### 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. 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 accident, 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.

- With the seat belt fastened, give the webbing nearest the buckle a quick pull.
   The buckle should remain securely locked.
- 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.

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.

#### 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 an accident occurs.

WARNING: Secure small children in a suitable child safety seat (see page 9). 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 an accident occurs (see page 6).

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 an accident 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

SAFETY INFORMATION

# Seat Belts

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.

# **Guidelines for Seating Children**

Your Model S seat belts in the front and second row seats are designed for adults and larger children. You must restrain infants and small children in the second row seats only, and you must use a suitable child safety seat appropriate for the child's age, weight, and size. Carefully follow the instructions provided by the manufacturer of the child safety seat. Never use child safety seats in the front row passenger seat.

If your Model S is equipped with Tesla built-in rear facing child seats, these seats are child safety seats and are designed only for children within a specific height and weight range (see page 14).

# Choosing a Child Safety Seat

All children age 12 and under should ride in the rear (second row) seats. Always use a child safety seat suitable for a young child's age and weight.

	Infants	Toddlers	Young children
Age	Birth to 1 year*	Over 1 year*	4 years and older, and less than 57" (145 cm) tall
Weight	Up to at least 20 lbs (9 kg)*	Over 20 lbs (9 kg) (minimum) and up to 40 lbs (18 kg)*	Over 40 lbs (18 kg)
Type of child safety seat	Rear facing (or convertible)	Forward facing (or convertible)*	Belt retained booster seat
Seat position	Rear facing only*	Forward facing*	Forward facing
Recommended attachment method	If combined weight of child and safety seat is up to 65 lbs (29 kg), attach the safety seat using either LATCH (lower anchor only) or the seat belt only.** If combined weight of child and safety seat is over 65 lbs (29 kg), attach the safety seat using the seat belt only.**	If combined weight of child and safety seat is up to 65 lbs (29 kg), attach the safety seat using either LATCH (both lower anchors and top tether anchor), or the seat belt and upper tether strap.** If combined weight of child and safety seat is over 65 lbs (29 kg), attach the safety seat using the seat belt and upper tether strap.**	Attach booster seats using the seat belt only.

<sup>\*</sup> Many child safety seats currently available allow children to ride rear-facing using the child safety seat's integrated 5-point harness for a longer period of time BASED UPON SPECIFIC HEIGHT AND WEIGHT LIMITS. Keep your child in a rear facing seat for as long as possible. CHECK THE CHILD SAFETY SEAT MANUFACTURER'S INSTRUCTIONS AND CAREFULLY FOLLOW ALL INSTRUCTIONS.

CAUTION: Laws that govern how and where children should be carried when traveling in a vehicle are subject to change. It is the driver's responsibility to keep up to date on, and comply with, all current regulations in the region(s) where Model S is driven. To check the child passenger safety laws for your state, go to: http://www.ghsa.org/html/stateinfo/laws/childsafety\_laws.html.

<sup>\*\*</sup>Subject to instructions provided by the child safety seat manufacturer.

# Seating Larger Children

If a child is too large to fit into a child safety seat, but too small to safely fit into the standard seat belts, use a booster seat appropriate for the child's age and size. Carefully follow the manufacturer's instructions to secure the booster seat using the seat belts. Do not use the LATCH system to secure booster seats, even in situations where the booster seat is equipped with the LATCH system.

# **Installing Child Safety Seats**

There are two general methods used to install child safety seats:

- Seat belt retained these seats are secured using the vehicle's seat belts (see page 10).
- LATCH\* retained these seats can attach to anchor bars built into the vehicle's rear seats (see page 11).

Check the child safety seat manufacturer's instructions and the table on page 9 to determine which installation method to use. Some child safety seats can be installed using either method. Always follow the child safety seat manufacturer's instructions.

\*LATCH - Lower Anchors and Tethers for Children

# Installing Seat Belt Retained Child Seats

First, make sure that the child falls into the correct weight range for the seat.

Avoid dressing the child in bulky clothing and do not place any objects between the child and the restraint system.

Adjust harnesses for every child, every trip.

Always follow the detailed instructions provided by the child safety seat manufacturer. General guidelines are provided below.

 Place the child safety seat in Model S, route the seat belt, and secure the buckle in accordance with the child safety seat manufacturer's instructions.



- Allow the seat belt to retract, and remove all slack in the seat belt while firmly pushing the child safety seat into the Model S seat.
- 3. If the seat belt retained child safety seat has an upper tether, attach it to the back of the seat (see page 12).

## **Installing LATCH Child Seats**

Lower LATCH anchor positions are provided in the second-row seats and are located between the seat's back rest and rear cushion. The exact location of each anchor is identified by a child safety seat identification button, illustrated below. The button is located on the seat back, directly above its associated anchor. Some Model S vehicles have two LATCH seating positions (outboard seating positions only), whereas others have three.

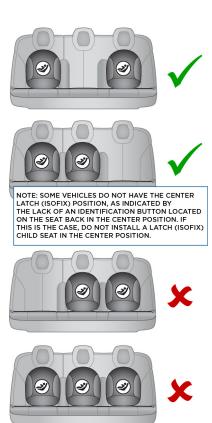




NOTE: SOME VEHICLES DO NOT HAVE THE CENTER LATCH (ISOFIX) POSITION, AS INDICATED BY THE LACK OF AN IDENTIFICATION BUTTON LOCATED ON THE SEAT BACK IN THE CENTER POSITION. IF THIS IS THE CASE, DO NOT INSTALL A LATCH (ISOFIX) CHILD SEAT IN THE CENTER POSITION.

On vehicles with the center LATCH position, you can install two LATCH seats adjacent to each other only if you install one of the seats on the right (passenger side) and the other in the center, as illustrated. To seat three children, use a seat belt retained seat in the center position.

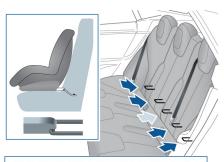
On vehicles without the center LATCH position, install LATCH seats in the outboard seating positions only, and always use a seat belt retained seat in the center position.



To install a LATCH retained child safety seat, slide the safety seat latches onto the anchor bars until they click into place. Carefully read and follow the instructions provided by the child safety seat manufacturer.

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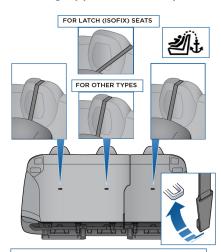
# Child Safety Seats



NOTE: SOME VEHICLES DO NOT HAVE THE CENTER LATCH (ISOFIX) POSITION, AS INDICATED BY THE LACK OF AN IDENTIFICATION BUTTON LOCATED ON THE SEAT BACK IN THE CENTER POSITION. IF THIS IS THE CASE, DO NOT INSTALL A LATCH (ISOFIX) CHILD SEAT IN THE CENTER POSITION.

Once installed, test the security of the installation before seating a child. Attempt to twist the child safety seat from side to side and try to pull it away from the seat, then check that the anchors are still securely in place.

# **Attaching Upper Tether Straps**



RUN THE TETHER STRAP OVER THE CENTER OF THE HEAD SUPPORT EXCEPT WHEN INSTALLING A LATCH (ISOFIX) RETAINED CHILD SAFETY SEAT IN THE CENTER POSITION.

If an upper tether strap is provided, attach its hook to the anchor point located on the back of the rear seats. Always position the strap so that it runs over the center of the Model S head support, except in cases where you are installing a LATCH retained child safety seat in the center position—in this case, run the strap over the left hand side of the head support, as shown. Tighten according to the child safety seat manufacturer's instructions.

NOTE: To prevent the strap from moving from side to side, the top of the head support deforms.

# Testing a Child Safety Seat

Before seating a child, always make sure the child safety seat is not loose:

- Hold the child safety seat by the belt path and try to slide the safety seat from side to side and front to back.
- If the seat moves more than one inch (2.5 cm), it is too loose. Tighten the belt or reconnect the LATCH retained child safety seat.
- If you are unable to reduce slack, try a different seat location or try another child safety seat.

# Warnings - Child Safety Seats

WARNING: Extreme hazard! Do not seat a child on the front passenger seat even if you are using a child safety seat. This seat has an airbag in front of it. Even though Model S disables this airbag when it detects a lightweight passenger, do not rely on this technology to protect your child.

WARNING: Do not use a forward facing child safety seat until your child weighs over 20 lbs (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 safety seat at all times.

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

WARNING: Children should ride in a rear facing child safety seat using the seat's integrated 5-point harness for as long as possible.

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 safety seats to one anchor point. In a collision, one anchor point may not be strong enough to secure both seats.

WARNING: Child safety seat anchors can withstand loads resulting only from correctly fitted child safety seats. Do not use these anchors for any other purpose.



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

WARNING: Never leave a child unattended in Model S, even if the child is secured in a child safety seat.

WARNING: Never use a child safety seat that has been involved in an accident. Have the seat inspected or replaced as a described in the child safety seat manufacturer's instructions.

# **Usage Restrictions**

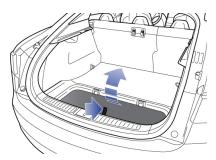
The Tesla built-in rear facing child seats are child restraint systems and must only be used for children over 37" (94 cm) tall and weighing between 35 and 77 lbs (16.2 to 35.2 kg).

Always ensure the top of the child's head cannot contact the vehicle and that the child is seated comfortably with the seat belts positioned and latched correctly. The child's pelvis must be held securely in place by the lap belt. Follow all instructions provided and do not use supplemental child safety seats in these seats.

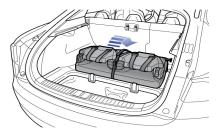
NOTE: Whenever a child is seated in the Tesla built-in rear facing child seats, it is recommended that you set the climate control system to draw outside air into Model S instead of recirculating the air. This draws more air into the rear seating areas.

# Opening

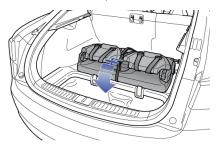
 Remove the cover from the trunk floor and pull the strap attached to the seat to lift the seat assembly upward.



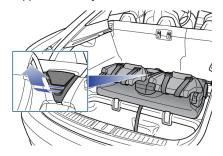
2. Push the seat assembly into position.



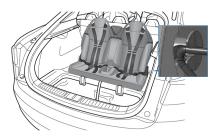
3. Undo the Velcro strap.



 Pull the handle to release the head supports from the seat back, then pull the head supports toward you to unfold them.



Raise the seat back to the upright position and push until it locks into position. Visually check to ensure that the retaining catches are engaged.



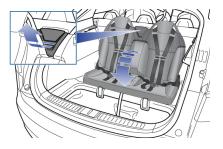
**6.** Check that the seat back and seat base are securely retained in the upright position by trying to pull the seat back toward you.

# Storing

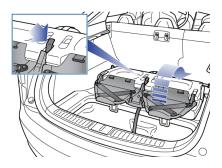


CAUTION: Before folding the seats, fasten the seat belts to prevent them from getting trapped in the seat mechanism and being damaged.

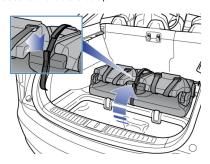
 Pull the handle to release the seat back and pull the seat back fully forward.



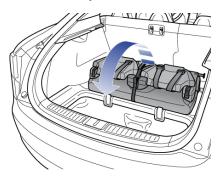
Push the lever to release the head supports from the seat back, then fold back onto the seat.



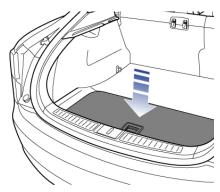
3. Secure the Velcro strap.



**4.** Pull the strap at the rear of the seat to fold the seat assembly into the trunk floor.



5. Replace the cover on the trunk floor.



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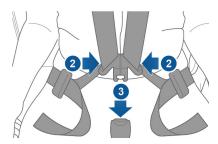
# Seating a Child

The Tesla built-in rear facing child seats are child restraint systems and must only be used for children over 37" (94 cm) tall and weighing between 35 and 77 lbs (16.2 to 35.2 kg).

Always ensure the top of the child's head cannot contact the vehicle and that the child is seated comfortably with the seat belts positioned and latched correctly. The child's pelvis must be held securely in place by the lap belt. Follow all instructions provided and do not use supplemental child safety seats in these seats

NOTE: Whenever a child is seated in the Tesla built-in rear facing child seats, it is recommended that you set the climate control system to draw outside air into Model S instead of recirculating the air. This draws more air into the rear seating areas.

- 1. Position the child in the seat with arms through the loops of the seat belts.
- 2. Connect the two halves of the seat belt tongue.
- **3.** Insert the seat belt tongue into the buckle and ensure it is securely fastened.



- Adjust the shoulder belts so they run over the top of the child's shoulders and away from the face.
- Connect the chest clip and adjust it to be as high as possible without causing the shoulder belts to touch the child's neck.

**6.** Pull the lower straps until the child is securely held in the seat.



Slide the shoulder clips into place to ensure the upper portion of the belts remain positioned over the child's shoulders.



To release, press the button on the buckle, release the chest clip, and separate the two halves of the seat restraint

# Warnings - Tesla Child Seats

WARNING: The Tesla built-in rear facing seats are child restraint systems and must only be used for children over 37" (94 cm) tall and weighing between 35 and 77 lbs (16.2 to 35.2 kg).

WARNING: Do not use supplemental child restraint systems, including booster seats, in the Tesla built-in rear facing child seats.

WARNING: Always ensure that the top of the child's head cannot touch the vehicle's headliner and that the child is seated comfortably with the seat belts correctly fastened.

WARNING: Follow all instructions and heed all warnings related to the rear facing child seats. Failure to do so can compromise occupant safety.

WARNING: Read all safety warnings and labels attached to the seats.

WARNING: Do not leave children unattended in Model S, even if the child is secured in a child safety seat or a Tesla built-in rear facing child seat. In hot weather, the interior temperature can reach dangerous levels that can result in dehydration, serious injury or death.

WARNING: Do not remove or replace the fabric on a Tesla built-in rear facing child seat. The covers are an integral part of the restraint's performance and should not be removed or replaced with any other type than those supplied by Tesla.

WARNING: If the Tesla built-in rear facing child seats have been used in an accident, they must be inspected or replaced by Tesla, even if damage is not obvious.

WARNING: Before allowing a child to ride in the Tesla built-in rear facing child seats, check that the seat is securely held in the upright position by trying to pull the seat back toward you.

WARNING: Do not remove the built-in rear facing child seats for any reason, including cleaning. To ensure safety of occupants, removal and installation must be performed by qualified Tesla service technicians.

WARNING: Do not make modifications or additions that can interfere with the operation of the Tesla built-in rear facing child seats.

WARNING: To prevent injury, ensure all loose items (bags, luggage, etc.) are secured. In an accident, or during hard braking and sharp turns, loose items could cause injury.

SAFETY INFORMATION

# **Maintaining Tire Pressures**

Keep tires inflated to the pressures shown on the 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 indicator light on the instrument panel 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 mph (40 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 S, a fault with the Tire Pressure Monitoring System (TPMS) is detected (see page 21).

#### Checking and Adjusting Tire Pressures

Follow these steps when tires are cold and Model S has been stationary for over three hours:

- 1. Remove the valve cap.
- 2. Firmly press an accurate tire pressure gauge onto the valve to measure pressure.

- **3.** If required, add air to reach the recommended pressure.
- **4.** Recheck pressure by removing and reattaching the tire gauge.
- If you added too much air, release air by pressing the metal stem in the center of the valve
- **6.** Recheck the pressure with the tire gauge and adjust if necessary.
- Replace the valve cap to prevent dirt from entering. Periodically check the valve for damage and leaks.

WARNING: Under-inflation is the most common cause of tire failures. It 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 Battery range and tire tread life.

WARNING: Check tire pressures using an accurate pressure gauge when tires are cold. It takes only one mile 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 S did not include a tire repair kit, you can purchase one from Tesla Motors.

# Inspecting and Maintaining Tires

Regularly inspect the tread and side walls for any sign of distortion (bulges), cuts or wear.

WARNING: Do not drive Model S 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

Model S is originally fitted with tires that have wear indicators molded into the tread pattern. When the tread has been worn down to 1/16" (1.6 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.

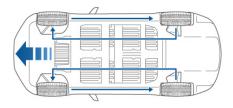
Replace a tire as soon as an indicator band becomes visible or the tread depth reaches the minimum permitted by law.

WARNING: Defective tires are dangerous. Do not drive if a tire is damaged, excessively worn, or is inflated to an incorrect pressure. The safety of the vehicle and occupants can be adversely affected. Check tires regularly for wear and to ensure there are no cuts, bulges or exposure of the ply/cord structure.

# Tire Rotation, Balance, and Wheel Alignment

Tesla recommends rotating the tires every 5000 miles (8000 km). After rotating, always check and adjust tire pressures.

NOTE: Do not rotate tires on the Performance Plus models



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.

#### **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. Do not drive with a punctured tire, even if the puncture has not caused the tire to deflate. A punctured tire can deflate suddenly at any time.

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 S transported to a Tesla service center, or to a nearby tire repair center.

In some cases, you can temporarily repair small tire punctures (under 1/4"/6 mm) using an optional tire repair kit available from Tesla. This allows you to slowly drive Model S to a Tesla service center or to a nearby tire repair facility.

WARNING: Do not drive Model S with a punctured tire. Even if the punctured tire has not deflated, it can suddenly deflate at any time.

#### Flat Spots

If Model S is stationary for a long period in high temperatures, tires can form flat spots. When Model S is driven, these flat spots cause a vibration which gradually disappears as the tires warm up and regain their original shape.

To minimize the 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.

#### **Driving in Low Ambient 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 miles until the tires warm up. Contact Tesla for winter tire recommendations.

#### Improving Tire Mileage

To improve the mileage you get from your tires, maintain tires at the recommended tire pressures (see page 18), 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.

Wheel rims 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 page 22) 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 (both front or both rear). When replacing tires, always rebalance and check the alignment of wheels.

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 Tire Pressure Monitoring System (TPMS).

#### **Asymmetric Tires**

Model S 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.

#### Winter Tires

In snowy and icy conditions, consider installing winter tires. Winter tires must be the same size, brand, construction and tread pattern on all four wheels. For recommendations on winter tires, contact Tesla.

WARNING: On dry roads, winter tires could have less traction than the originally installed tires.

#### Using Tire Chains

Tesla has tested and approved Security Chain Company (SCC) Model Z-563 chains for use on the rear wheels. These chains must only be used if your Model S has 245/45R19 rear tires installed. Do not use chains on 21" tires.

When installing tire chains, follow the instructions provided by the tire chain manufacturer. Mount them as tightly as possible.

When using tire chains:

- Drive slowly—do not exceed 30 mph (48 km/h).
- Avoid heavily loading Model S (heavy loads can reduce the clearance between the tires and the body).
- 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 is not covered by the warranty.

CAUTION: Ensure that tire chains cannot touch suspension components or brake lines. If you hear the chains making

unusual noises that would indicate contact with Model S. stop and investigate immediately.

# 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 page 18). 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 tire pressure monitoring system (TPMS) that displays a low tire pressure telltale (Tire Pressure Warning) on the instrument panel when one or more of your tires is significantly under-inflated. Accordingly. when the Tire Pressure indicator light displays on the instrument panel alerting you of low tire pressure, stop and check your tires as soon as possible, and inflate them to the proper pressure (see page 18). Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.



If Model S detects a fault with the Tire Pressure Monitoring System (TPMS). this indicator flashes for one minute whenever you power on Model S.

NOTE: Installing accessories that are not approved by Tesla can interfere with the TPMS system.

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-inflation has not reached the level for the TPMS to trigger the Tire Pressure Warning on the instrument panel.

#### **TPMS Malfunction**

Model S 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 low tire pressure indicator light. When the system detects a malfunction, the indicator light flashes for approximately one minute after Model S powers on, and 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 low tire pressure as intended. TPMS malfunctions can occur for a variety of reasons, including installing replacement or alternate tires or wheels on the vehicle 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 or alternate tires and 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.

#### Replacing a Tire Sensor

If the Tire Pressure warning indicator displays frequently, contact Tesla to determine if a tire sensor needs to be replaced. Tire sensors must be replaced by a Tesla service technician who can perform a brief setup procedure. If a non-Tesla service center repairs or replaces a tire, the tire sensor will not work until Tesla performs the setup procedure.

# **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. It also provides the tire identification number (TIN) for safety standard certification and in case of a recall.



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).
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.

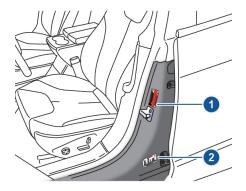
# Wheels and Tires Glossary

Accessory Weight	The combined weight (in excess of those items replaced) of items available as factory installed equipment.
Bead	The inner edge of a tire that is shaped to fit to the rim and form an air tight seal. The bead is constructed of steel wires which are wrapped, or reinforced, by the ply cords.
Cold Tire Pressure	The air pressure in a tire that has been standing in excess of three hours, or driven for less than one mile.
Curb Weight	The weight of a standard vehicle, including any optional equipment fitted, and with the correct fluid levels.
Gross Vehicle Weight	The maximum permissible weight of a vehicle with driver, passengers, load, luggage, and equipment.
kPa (kilo pascal)	A metric unit used to measure pressure. One kilo pascal equals approximately 0.145 psi.
Maximum Inflation Pressure	The maximum pressure to which the tire should be inflated. This pressure is given on the tire side wall in psi (lbf/in²).  CAUTION: This pressure marked on the tire is the maximum allowed by the tire manufacturer. It is not the pressure Tesla recommends using for Model S.
Maximum Loaded Vehicle Weight	The sum of curb weight, accessory weight, vehicle capacity weight, and production options weight.
Production Options Weight	The combined weight of options installed which weigh in excess of 3 lb more than the standard items that they replaced, and are not already considered in curb or accessory weights.
PSI (lbf/in²)	Pounds per square inch (the unit used to measure tire pressure).
Recommended Tire Inflation Pressure	Tire inflation pressure, established by Tesla, which is based on the type of tires that are mounted on the vehicle at the factory. This information can be found on the Tire and Loading Information label located on the driver's side door pillar.
Rim	The metal support for a tire, or tire and tube, upon which the tire beads are seated.
Vehicle Capacity Weight	The number of seats multiplied by 150 lb plus the rated amount of load/luggage.

# Load Capacity Labeling

It is important to understand how much weight your Model S 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 S since it was manufactured.

There are two labels attached to Model S that state how much weight it can safely carry. These labels are located on the center door post and are visible when the driver's door is open:



- 1. Tire and Loading Information label
- 2. Vehicle Certification label

WARNING: Overloading Model S has an adverse effect on braking and handling, which can compromise your safety or damage Model S.

CAUTION: Never load more than 300 lbs (136 kg) in the front trunk. Doing so can cause damage.

CAUTION: Never store large amounts of liquid in Model S. Significant spillage of liquids can cause electrical components to malfunction.

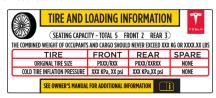
#### Tire and Loading Information Label

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.

#### United States:



#### Canada:



Never change this label, even if you use different tires in the future.

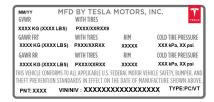
If Model S is loaded to its full capacity, double check all tires to ensure they are inflated to their recommended pressure levels.

#### **Vehicle Certification Label**

The Vehicle Certification label provides:

- GVWR Gross Vehicle Weight Rating. The maximum allowable total mass of Model S.
   This is calculated as the weight of Model S, all passengers, fluids, and cargo.
- GAWR FRT and GAWR RR Gross Axle
  Weight Rating for the front and rear axles.
  The GAWR is the maximum distributed
  weight that each axle can support.

#### United States:



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#### Canada:



CAUTION: To prevent damage, never load Model S so that it is heavier than GVWR or exceeds the individual GAWR weights.

# **Calculating Load Limits**

- Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs" on your vehicle's "Tire and Loading Information" label.
- Determine the combined weight of the driver and passengers that will be riding in the vehicle.
- Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs (see Step 1).
- 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs (635 kg) and there will be five 150 lb (68 kg) passengers in the vehicle, the amount of available cargo and luggage capacity is 650 lbs (1400 750 (5 x 150) = 650 lbs) or 294 kg (635 340 (5 x 68) = 294 kg.
- Determine the combined weight of cargo and luggage being loaded on the vehicle. That weight must not exceed the available cargo and luggage load capacity calculated in Step 4.

WARNING: The front and rear trunks are the preferred places to carry objects. In an accident, or during hard braking and sharp turns, loose items in the cabin could injure occupants.

#### **Example Load Limit Calculations**

How much cargo you can carry in Model S depends on the number and weight of passengers. The following are typical examples of calculated load limits. These examples assume passengers weighing 150 lbs (68 kg). If the passengers weigh more or less, the available cargo and luggage load capacity decreases or increases respectively.

Example 1: Driver and one passenger

Description	Total
Vehicle capacity weight	954 lbs (433 kg)
Subtract occupant weight (2 x 150 lbs/68 kg)	300 lbs (136 kg)
Available cargo weight	654 lbs (297 kg)

Example 2: Driver and four passengers

Description	Total
Vehicle capacity weight	954 lbs (433 kg)
Subtract occupant weight (5 x 150 lbs/68 kg)	750 lbs (340 kg)
Available cargo weight	204 lbs (93 kg)

The available cargo or luggage weight should then be distributed between the front and rear trunks.

CAUTION: Do not exceed the maximum front trunk load weight of 300 lbs (136 kg).

#### Towing a Trailer

WARNING: Do not tow a trailer. Model S does not support a trailer hitch. Installing one could damage Model S and increase the risk of an accident.

# Vehicle Telematics/Data Recorders

This vehicle is equipped with electronic modules that monitor and record data from various vehicle systems, including the motor, 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; and as otherwise may be required by law. In servicing your vehicle, we can potentially resolve issues remotely simply by reviewing vour vehicle's data log.

Tesla's telematics system wirelessly transmits vehicle information to Tesla on a periodic basis. The data is used as described above and helps ensure the proper maintenance of your vehicle. Additional Model S 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 in a lawsuit.
- · 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.

In addition, Tesla does not disclose the data recorded to an owner unless it pertains to a non-warranty repair service and in this case, will disclose only the data that is related to the repair.

# **Quality Control**

You might notice a few miles/kms on the odometer when you take delivery of your Model S. This is a result of a comprehensive testing process that ensures the quality of your Model S.

The testing process includes extensive inspections during and after production. The final inspection takes place at Tesla Motors and includes a road test conducted by a Tesla technician.

# California Proposition 65

WARNING: Certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WARNING: Certain components of this vehicle such as airbag modules and seat belt pre-tensioners may contain Perchlorate Material. Special handling may be required for service or vehicle end of life disposal. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

SAFETY INFORMATION

#### **Key and Passive Unlocking System**

#### **FCC Certification**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

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

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

#### IC Certification

IC: 10176A-002 Model: 002

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

# **Tire Pressure Monitoring System**

The tire pressure monitoring system (TPMS) complies with Part 15 of the FCC rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions:

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

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

# **HomeLink**

This device complies with Part 15 of the FCC rules and IC-RSS-210 Industry Canada. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications to the device not expressly approved by the manufacturer or Tesla Motors could void the user's 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 quarantee 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, the user is encouraged to 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 for help.

# **Contacting Tesla**

For detailed information about your Model S, go to www.teslamotors.com, click the MYTESLA link, then enter your login credentials (or sign up to get these credentials).

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

## Reporting Safety Defects - US

If you believe that Model S has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Tesla Motors.

If NHTSA receives similar complaints, it may open an investigation. If it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Tesla Motors.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, National Highway Traffic Safety, 1200 New Jersey Avenue SE., Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

# Reporting Safety Defects - Canada

If you believe that your Model S has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada, in addition to notifying Tesla. To contact Transport Canada, call their toll-free number: 1-800-333-0510.

SAFETY INFORMATION

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# WARRANTY (NORTH AMERICA)



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WARRANTY 31

#### **General Warranty Provisions**

Tesla Motors, Inc. ("Tesla") will provide repairs to a Model S vehicle during the applicable warranty period in accordance with the terms, conditions and limitations defined in this New Vehicle Limited Warranty.

#### Who is the Warrantor?



#### What Vehicles are Covered?

This New Vehicle Limited Warranty applies to a Model S vehicle sold by Tesla in the Tesla North America Warranty Region. For purposes of this New Vehicle Limited Warranty, the Tesla North America Warranty Region is defined as all 50 states of the United States of America, the District of Columbia, and all 13 provinces and territories of Canada, provided that you return to the North America Warranty Region in order to receive warranty service. Any subsequent purchaser or transferee must return to the North America Warranty Region in order to obtain warranty service regardless of the country in which such purchaser or transferee may have purchased the vehicle.

#### **Multiple Warranty Conditions**

This New Vehicle Limited Warranty contains warranty terms and conditions that may vary depending on the part or system covered. A warranty for specific parts or systems is governed by the coverage set forth in that warranty section as well as other provisions in this New Vehicle Limited Warranty.

#### Limitations and Disclaimers

This NEW VEHICLE LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY MADE IN CONNECTION WITH YOUR TESLA VEHICLE. Implied and express warranties and conditions arising under applicable state or provincial laws or federal statute or otherwise in law or in equity, if any, including, but not limited to, implied warranties and conditions of merchantability or merchantable quality, fitness for a particular purpose, durability, or those arising by a course of dealing or usage of trade, are disclaimed to the fullest extent allowable by law, or limited in duration to the term of this New Vehicle Limited Warranty. Some states or provinces do not allow limitations on implied warranties or conditions and/or how long an implied warranty or condition lasts, so the above limitations may not apply to you.

THE PERFORMANCE OF NECESSARY REPAIRS AND PARTS REPLACEMENT BY TESLA IS THE EXCLUSIVE REMEDY UNDER THIS NEW VEHICLE LIMITED WARRANTY OR ANY IMPLIED WARRANTIES. Tesla does not authorize any person or entity to create for it any other obligations or liability in connection with this New Vehicle Limited Warranty. The decision of whether to repair or replace a part or to use a new or remanufactured part will be made by Tesla, in its sole discretion.

#### Your Rights Under State Law

This New Vehicle Limited Warranty gives you specific legal rights. You may also have other rights that vary from state to state.

#### Ownership Transfer

This New Vehicle Limited Warranty is transferable at no cost to any person(s) who subsequently and lawfully assume(s) ownership of the vehicle after the first retail purchaser within the described limitations of this New Vehicle Limited Warranty ("subsequent purchaser").

#### Who Can Enforce this New Vehicle Limited Warranty?

The first retail purchaser, or subsequent purchaser, of a new Model S vehicle sold in the Tesla North America Warranty Region, titled or registered in the name of the first retail purchaser, or subsequent purchaser, according to the laws of the 50 states of the United States of America, the District of Columbia, or Canada, can enforce this New Vehicle Limited Warranty, subject to the terms of this New Vehicle Limited Warranty.

#### When Does the Warranty Period Begin and End?

This New Vehicle Limited Warranty begins on the first day a new vehicle is put into use by delivery to the first retail purchaser(s), or by leasing or registering as a company car or demonstrator, whichever is earlier, and provides coverage for the period based on the specified warranty as described in the section "WARRANTY COVERAGE." Parts repaired or replaced, including replacement of the vehicle, under this New Vehicle Limited Warranty are covered only until the applicable warranty period of this New Vehicle Limited Warranty ends, or as otherwise provided by applicable law.

## Warranty Coverage

This New Vehicle Limited Warranty includes the Basic Vehicle Limited Warranty, the Supplemental Restraint System ("SRS") Limited Warranty, and the Battery Limited Warranty, each as described below.

The exclusive remedy available to you under this New Vehicle Limited Warranty is the repair or replacement of new or remanufactured parts by Tesla for the covered defects. Subject to the exclusions and limitations described in this New Vehicle Limited Warranty, such repair or parts replacement will be performed without cost to you by Tesla when Tesla is notified of the covered defect within the applicable warranty period. Repairs will be performed using new or remanufactured parts at the sole discretion of Tesla. All replaced parts or other components are the exclusive property of Tesla unless otherwise provided under applicable law.

#### **Basic Vehicle Limited Warranty**

Subject to separate coverage for certain parts and the exclusions and limitations described in this New Vehicle Limited Warranty, the Basic Vehicle Limited Warranty covers the repair or replacement necessary to correct defects in the materials or workmanship of any parts manufactured or supplied by Tesla that occur under normal use for a period of 4 years or 50,000 miles (80,000 km), whichever comes first

#### Supplemental Restraint System Limited Warranty

Subject to the exclusions and limitations described in this New Vehicle Limited Warranty, the SRS Limited Warranty covers the repair or replacement necessary to correct defects in the materials or workmanship of the vehicle's seat belts or air bag system manufactured or supplied by Tesla that occur under normal use for a period of 5 years or 60,000 miles (100,000 km), whichever comes first.

#### **Battery Limited Warranty**

The Model S lithium-ion battery (the "Battery") is an extremely sophisticated powertrain component designed to withstand extreme driving conditions. You can rest easy knowing that Tesla's state-of-the-art Battery is backed by this Battery Limited Warranty, which covers the repair or replacement of any malfunctioning or defective Battery, subject to the limitations described below.

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If your Battery requires warranty service, Tesla will repair the unit, or replace it with a factory reconditioned unit that has an energy capacity at least equal to that of the original Battery before the failure occurred. To provide you with even more assurance, this Battery Limited Warranty will also cover damage to your vehicle from a Battery fire even if it is the result of driver error. (Coverage will not extend to damage that had already been sustained before a Battery fire occurred, or to any damage if the Battery fire occurred after your vehicle had already been totaled.) Your vehicle's Battery is covered under this Battery Limited Warranty for a period of 8 years or for the number of miles/km specified below for your Battery configuration, whichever comes first:

- 60 kWh 125.000 miles (200.000 km)
- 85 kWh unlimited miles/km

Despite the breadth of this warranty, damage resulting from intentional actions (including intentionally abusing or destroying your vehicle, or ignoring active vehicle warnings), a collision or accident (excluding from Battery fires as specified above), or the servicing or opening of the Battery by non-Tesla personnel, is not covered under this Battery Limited Warranty.

In addition, damage resulting from the following activities is not covered under this Battery Limited Warranty:

- Exposing the vehicle to ambient temperatures above 140°F (60°C) or below -22°F (-30°C) for more than 24 hours at a time;
- Physically damaging the Battery, or intentionally attempting, either by physical means, programming, or other methods, to extend (other than as specified in your owner documentation) or reduce the life of the Battery;
- Exposing the Battery to direct flame (excluding from Battery fires as specified above); or,
- · Flooding of the Battery.

The Battery, like all lithium-ion batteries, will experience gradual energy or power loss with time and use. Loss of Battery energy or power over time or due to or resulting from Battery usage, is NOT covered under this Battery Limited Warranty. See your owner documentation for important information on how to maximize the life and capacity of the Battery.

#### **Exclusions and Limitations**

This New Vehicle Limited Warranty does not cover any vehicle damage or malfunction directly or indirectly caused by, due to or resulting from normal wear or deterioration, abuse, misuse, negligence, accident, improper maintenance, operation, storage or transport, including, but not limited to, any of the following:

- Failure to take the vehicle to a Tesla Service Center or Tesla authorized repair facility upon discovery of a defect covered by this New Vehicle Limited Warranty;
- · Accidents, collisions, or objects striking the vehicle;
- Any repair, alteration or modification of the vehicle, or the installation or use of fluids, parts or accessories, made by a person or facility not authorized or certified to do so;
- Improper repair or maintenance, including use of fluids, parts or accessories other than those specified in your owner documentation;
- · Towing the vehicle;
- Improper winch procedures:
- · Theft. vandalism. or riot:
- · Fire, explosion, earthquake, windstorm, lightning, hail, flood, or deep water;
- Driving the vehicle off-road, over uneven, rough, damaged or hazardous surfaces, including but not limited to, curbs, potholes, unfinished roads, debris, or other obstacles, or in competition, racing or autocross or for any other purposes for which the vehicle is not designed;

- · Overloading the vehicle;
- · Using the vehicle as a stationary power source; and

The environment or an act of God, including, but not limited to, exposure to sunlight, airborne chemicals, tree sap, animal or insect droppings, road debris (including stone chips), industry fallout, rail dust, salt, hail, floods, wind storms, acid rain, fire, water, contamination, lightning and other environmental conditions

#### Additional Limitations and Exclusions

In addition to the above exclusions and limitations, this New Vehicle Limited Warranty does not cover any of the following:

- Any corrosion or paint defects including, but not limited to, the following:
  - Corrosion from defects in non-Tesla manufactured or supplied materials or workmanship causing perforation (holes) in body panels or the chassis from the inside out;
  - Surface or cosmetic corrosion causing perforation in body panels or the chassis from the outside in, such as stone chips or scratches; and
  - Corrosion and paint defects caused by, due to or resulting from accidents, paint matching, abuse, neglect, improper maintenance or operation of the vehicle, installation of an accessory, exposure to chemical substances, or damages resulting from an act of God or nature, fire, or improper storage;
- Non-genuine Tesla parts or accessories or their installation, or any damage directly or indirectly
  caused by, due to or resulting from the installation or use of non-genuine Tesla parts or
  accessories:
- Certain individual items associated with the vehicle, including, but not limited to the tires, Mobile
  Connector, High Power Wall Connector, any future connectors, and related charging adapters,
  which have separate warranties subject to their own terms and conditions;
- Windshield or window glass that is broken, chipped, scratched, or cracked, other than as a result
  of a defect in material or workmanship of a Tesla manufactured or supplied windshield or
  window glass:
- General appearance or normal noise and vibration, including, but not limited to, brake squeal, general knocks, creaks, rattles, and wind and road vibration; and
- Maintenance services, including, but not limited to, the following:
  - Standard 12 month or 12,500 mile service and diagnostics checks;
  - · Wheel alignment or balancing;
  - Appearance care (such as cleaning and polishing); and
  - Expendable maintenance items (such as wiper blades/inserts, brake pads/linings, filters, etc.).

#### Voided Warranty

You are responsible for the proper operation of the vehicle and for receiving and maintaining detailed and accurate records of your vehicle's maintenance, including the 17-digit Vehicle Identification Number ("VIN"), servicing center name and address, mileage, date of service or maintenance and description of service or maintenance items, which should be transferred to each subsequent purchaser. You may void this New Vehicle Limited Warranty if you do not follow the specific instructions and recommendations regarding the use and operation of the vehicle provided in your Model S owner documentation, including, but not limited to:

- · Complying with any recall advisories;
- Carrying passengers and cargo within specified load limits; and
- · Making all repairs.

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Although Tesla does not require you to perform all service or repairs at a Tesla Service Center or Tesla authorized repair facility, this New Vehicle Limited Warranty may be voided or coverage may be excluded due to improper maintenance, service or repairs. Tesla Service Centers and Tesla authorized repair facilities have special training, expertise, tools and supplies with respect to your vehicle and, in certain cases, may employ the only persons or be the only facilities authorized or certified to work on certain parts of your vehicle. Tesla strongly recommends that you have all maintenance, service and repairs done at a Tesla Service Center or Tesla authorized repair facility in order to avoid voiding, or having coverage excluded under, this New Vehicle Limited Warranty.

The following will also void this New Vehicle Limited Warranty:

- Vehicles that have had the VIN defaced or altered or the odometer or other related system disconnected, altered or rendered inoperative so that it is difficult to determine the VIN number or actual mileage;
- Vehicles that have been labeled or branded as dismantled, fire-damaged, flood-damaged, junk, rebuilt, salvage, reconstructed, irreparable or a total loss; and
- Vehicles that have been determined to be a total loss by an insurance company.

#### **Damages**

Tesla hereby disclaims any and all indirect, incidental, special and consequential damages arising out of or relating to your vehicle, including, but not limited to, transportation to and from a Tesla Service Center, loss of vehicle value, loss of time, loss of income, loss of use, loss of personal or commercial property, inconvenience or aggravation, emotional distress or harm, commercial loss (including but not limited to lost profits or earnings), towing charges, bus fares, vehicle rental, service call charges, gasoline expenses, lodging expenses, damage to tow vehicle, and incidental charges such as telephone calls, facsimile transmissions, and mailing expenses.

Tesla shall not be liable for any direct damages in an amount that exceeds the fair market value of the vehicle at the time of the claim.

The above limitations and exclusions shall apply whether your claim is in contract, tort (including negligence and gross negligence), breach of warranty or condition, misrepresentation (whether negligent or otherwise) or otherwise at law or in equity, even if Tesla is advised of the possibility of such damages or such damages are reasonably foreseeable. Some states or provinces do not allow the exclusion or limitation of indirect, direct, special, incidental or consequential damages, so the above limitations or exclusions may not apply to you.

#### **Obtaining Warranty Service**

To obtain warranty service, you must notify Tesla within the applicable warranty period, and deliver the vehicle, at your expense, during regular business hours to a Tesla Service Center, or such other repair facility designated by Tesla in the Tesla North America Warranty Region. The location of the nearest Tesla Service Center may be obtained by visiting www.teslamotors.com. The location of Tesla Service Centers is subject to change at any time and without prior notice.

Please be prepared to provide the VIN, which is located on the upper dashboard on the driver's side of the vehicle and visible through the windshield and is also available on the vehicle registration and title documentation, vehicle delivery date, current mileage and a description of the defect when you contact Tesla.

In the event of a change of your address, please contact Tesla at the address or phone number specified in the section of this New Vehicle Limited Warranty titled "Who is the Warrantor?".

#### Payment of Tax for Repairs

Some jurisdictions and/or local governments may require that tax be collected on warranty repairs. Where applicable law allows, you are responsible for payment of these taxes.

#### Reasonable Time for Repairs

You must allow Tesla a reasonable time for completion of repairs and/or service. Upon notification by Tesla of the completion of the vehicle repairs and/or service, you are responsible for immediately picking up the vehicle, at your own expense.

#### Roadside Assistance (North America)

Tesla provides complimentary roadside assistance emergency services, including towing services to the nearest Tesla Service Center or your home provided they are within 50 miles (80 km) of your vehicle, for 4 years or 50,000 miles (80,000 km), whichever comes first, for vehicles covered by this New Vehicle Limited Warranty at the time of the occurrence, subject to the exclusions and limitations described in your Roadside Assistance documentation. You are responsible for any roadside assistance emergency services for vehicles or repairs not covered by this New Vehicle Limited Warranty, which will have a minimum charge of US\$300 or CAD\$300, as applicable depending upon the location of the vehicle, and for any charges for transportation beyond the first 50 miles (80 km). Roadside assistance is not provided under this New Vehicle Limited Warranty but is a service intended to minimize inconvenience when your Tesla vehicle is inoperable. Please refer to your Roadside Assistance documentation for details.

#### Modifications and Waivers

No person or entity, including, but not limited to, a Tesla employee or authorized representative, can modify or waive any part of this New Vehicle Limited Warranty. Tesla may occasionally offer to pay a portion or all of the cost of certain repairs that are no longer covered by this New Vehicle Limited Warranty for specific vehicle models, which some states may refer to as "adjustment programs." In such circumstances, Tesla will notify all known registered owners of affected vehicles. You may also inquire to Tesla directly regarding the applicability of such programs, if any, to your vehicle. Tesla may also occasionally offer to pay a portion or all of the cost of certain vehicle repairs that are no longer covered by this New Vehicle Limited Warranty on an ad hoc case-by-case basis. Tesla reserves the right to do the above and to make changes to vehicles manufactured or sold by Tesla and the applicable warranties, at any time, without incurring any obligation to make the same or similar payment or changes for vehicles Tesla previously manufactured or sold, or applicable warranties including this New Vehicle Limited Warranty. Nothing herein shall imply that any Tesla vehicle is free of defects

## Warranty Enforcement Laws and Dispute Resolution

The Magnuson-Moss Warranty Act is the federal law which governs this New Vehicle Limited Warranty. Many jurisdictions have laws, commonly called "Lemon Laws," that provide you with certain rights if you have problems with your new vehicle. These laws vary depending on the state, province or territory. Your new vehicle and its safety items comply with applicable provincial and territorial motor vehicle laws.

To the fullest extent allowed by the law of your jurisdiction, Tesla requires that you first provide Tesla, during the applicable warranty period specified in this New Vehicle Limited Warranty, with written notification of any defects you have experienced within a reasonable time to allow Tesla an opportunity to make any needed repairs, and to submit to our dispute settlement program, before you pursue any remedy under these laws.

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Please send your written notification to:



Tesla Motors, Inc. 3500 Deer Creek Road Palo Alto, California 94304 Attention: Vehicle Service

1-877-79-TESLA (1-877-798-3752)

#### Vehicles registered in Canada:

Tesla Motors Canada, Inc. 7175 Tranmere Road, Unit #2 Mississauga, Ontario L5S 1N4 Attention: Vehicle Service 1-877-79-TESLA (1-877-798-3752)

Please include the following information:

- Your name and contact information;
- VIN:
- Name and location of the Tesla Store and/or Tesla Service Center nearest you:
- · Vehicle delivery date:
- · Current mileage;
- · Description of the defect: and

History of the attempts you have made with a Tesla Store or a Tesla representative to resolve the concern, or of any repairs or services that were not performed by a Tesla Service Center or Tesla authorized repair facility.

In the event any disputes, differences or controversies arise between you and Tesla related to this New Vehicle Limited Warranty, Tesla will explore all possibilities for an amicable settlement. In case an amicable settlement is not reached, Tesla offers a dispute settlement program through:

NATIONAL CENTER FOR DISPUTE SETTLEMENT ("NCDS")

PO Box 526

Mt. Clemens, MI 48046

1-866-629-3204

Tesla requires that you submit your dispute to our dispute settlement program and wait for a decision to be issued prior to pursuing any remedy under federal or state laws (including 15 U.S.C. Section 2310 or California Civil Code Section 1793.22(b)), although you may be entitled to pursue a remedy without submitting under certain state laws or if you pursue any rights or remedies not created by these laws. This dispute settlement program administered by NCDS is free of charge to you and is conducted by local NCDS professionals who are trained and experienced in mediation and arbitration.

NCDS resolves disputes involving this New Vehicle Limited Warranty which arise during the applicable warranty period specified in this New Vehicle Limited Warranty. However, NCDS will not arbitrate claims involving a vehicle used primarily for commercial purposes unless the "Lemon Law" of your state covers (1) vehicles used for commercial purposes or (2) claims that an air bag failed to deploy or deployed when it should not have. You must file a request for arbitration with NCDS within 60 days (or 6 months in certain jurisdictions) of the expiration of the applicable warranty period, provided you sent written notice to Tesla, as specified above, of the alleged defect during the applicable warranty period.

To initiate arbitration, you must contact NCDS at 1-866-629-3204 or P.O. Box 526, Mt. Clemens, MI 48046, and complete an NCDS customer claim form and mail it to NCDS. Please also provide a copy of your written notification sent to Tesla and/or all information required in such notification specified above, your desired resolution, and all receipts if requesting reimbursement. Upon receipt of your request, NCDS will contact you regarding the status of your case and provide you with additional details about the program.

When NCDS receives your request, it will be forwarded to Tesla for response. After analyzing all information pertaining to your case, NCDS will schedule a technical evaluation if applicable. If you request it, an oral hearing will be held prior to a decision being rendered. At this hearing, all evidence is admissible. After considering all testimony and documents, the arbitrator will review the applicable legal standards and render a decision. A settlement satisfactory to all parties may be negotiated at any time, including prior to or after the arbitrator's decision.

NCDS's decision is binding on Tesla but not on you. If you accept NCDS's decision, Tesla will comply with the decision in a reasonable time not to exceed 30 days after Tesla receives notice of your acceptance. Remedies include but are not limited to repairs; reimbursement for repairs and incidental expenses, such as transporting costs; and repurchase or replacement of your vehicle. NCDS decisions do not include attorney fees or punitive, multiple, or consequential damages, except incidental damages as required by applicable law.

If you are not satisfied with the arbitrator's decision or Tesla's compliance, you may pursue any other legal remedies available to you. NCDS findings and decisions are admissible as evidence in any legal proceedings concerning your vehicle.

The description provided above is only a brief summary of the dispute settlement program administered by NCDS. Customers with vehicles registered in Canada will be referred by NCDS to the Canadian Motor Vehicle Arbitration Program ("CAMVAP") and subject to CAMVAP procedures and remedies, which will differ from those described above. The dispute settlement program may be changed at any time without prior notice. Contact NCDS at the above listed address or phone number for the most current information concerning the dispute settlement program.

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