



2012 - 2013

## MODEL S

### EMERGENCY RESPONSE GUIDE

This guide is intended only for use by trained and certified rescuers and first responders. It assumes that readers have a comprehensive understanding of how safety systems work and have completed the appropriate training and certification required to safely handle rescue situations. Therefore, this guide provides only the specific information required to understand and safely handle the fully electric Model S in an emergency situation. It describes how to identify Model S, and provides the locations and descriptions of its high voltage components, airbags, inflation cylinders, seat belt pre-tensioners, and high strength materials used in its body structure. This guide includes the high voltage disabling procedure and any safety considerations specific to Model S. Failure to follow recommended practices or procedures can result in serious injury or death.

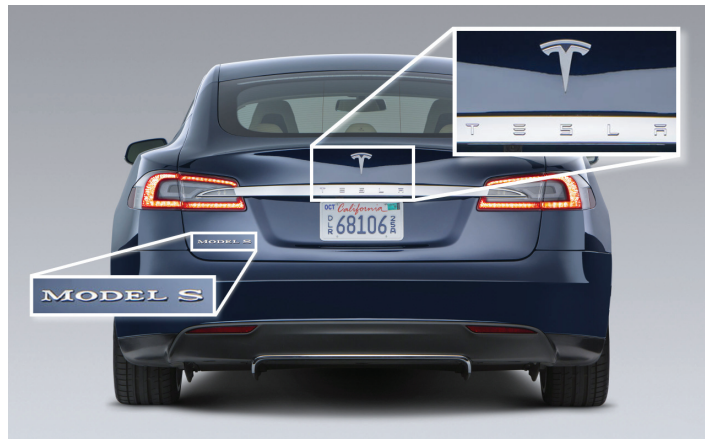
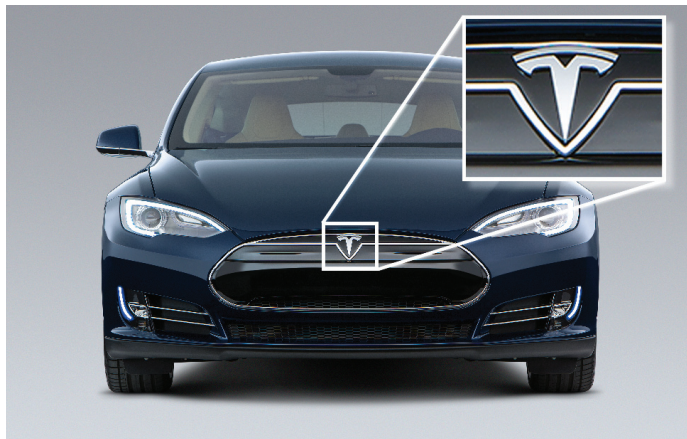
The high voltage battery is the main energy source. Model S does not have a traditional gasoline or diesel engine and therefore does not have a fuel tank.



IDENTIFYING MODEL S.....	1	LIFTING MODEL S .....	19
BADGING.....	1	OPENING MODEL S .....	20
LARGE SCREEN.....	2	USING THE KEY .....	20
CHARGE PORT.....	2	OPENING DOORS .....	20
HIGH VOLTAGE COMPONENTS .....	3	OPENING REAR DOORS WITH NO POWER.....	20
OVERVIEW OF HIGH VOLTAGE COMPONENTS.....	3	OPENING THE TRUNK.....	21
HIGH VOLTAGE BATTERY .....	4	OPENING THE HOOD (FRONT TRUNK) .....	21
DC-DC CONVERTER .....	5	HIGH VOLTAGE LABELS .....	22
HIGH VOLTAGE CABLING.....	6	INDEX .....	23
CHARGERS.....	7		
DRIVE UNIT.....	8		
LOW VOLTAGE SYSTEM .....	9		
12V BATTERY.....	9		
FIRST RESPONDER CUT LOOP .....	10		
FIRST RESPONDER CUT LOOP.....	10		
CUTTING THE FIRST RESPONDER LOOP.....	11		
STABILIZING MODEL S.....	12		
AIRBAGS AND SUPPLEMENTARY RESTRAINT SYSTEM (SRS) .....	13		
AIRBAGS.....	13		
AIRBAG INFLATION CYLINDERS.....	13		
SEAT BELT PRE-TENSIONERS .....	14		
HIGH STRENGTH STEEL .....	15		
NO-CUT ZONES.....	16		
RESCUE OPERATIONS .....	17		
FULLY OR PARTIALLY SUBMERGED VEHICLES .....	17		
PUSHING ON THE FLOOR PAN.....	17		
FIREFIGHTING .....	18		
HIGH VOLTAGE BATTERY - FIRE DAMAGE .....	18		

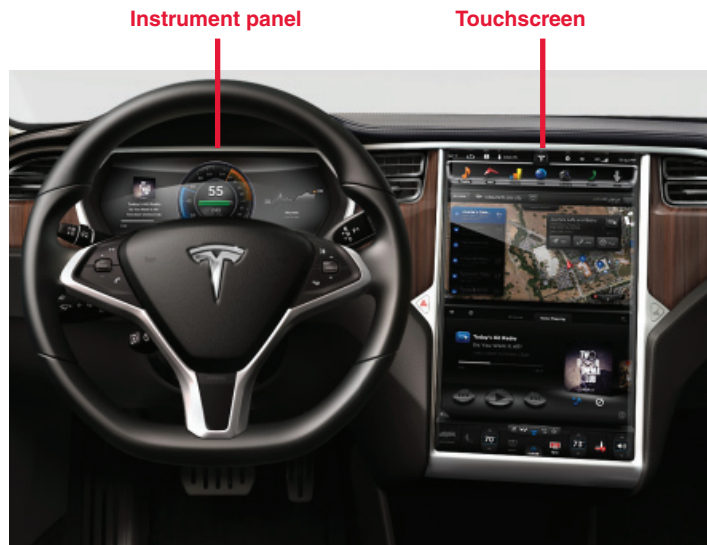
## BADGING

Model S has three main badges to distinguish it.



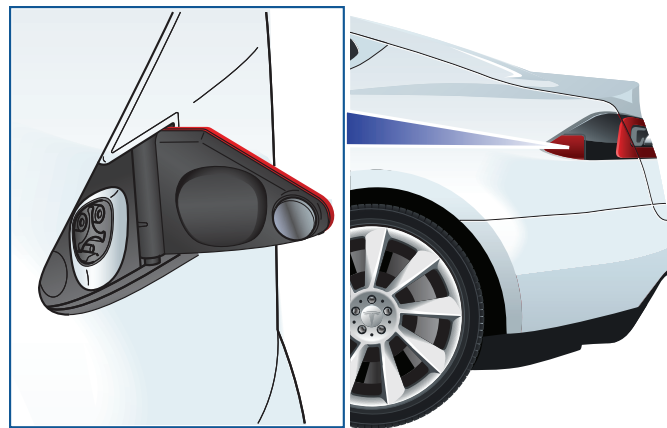
## LARGE SCREEN

Model S has a large 17" touchscreen.



## CHARGE PORT

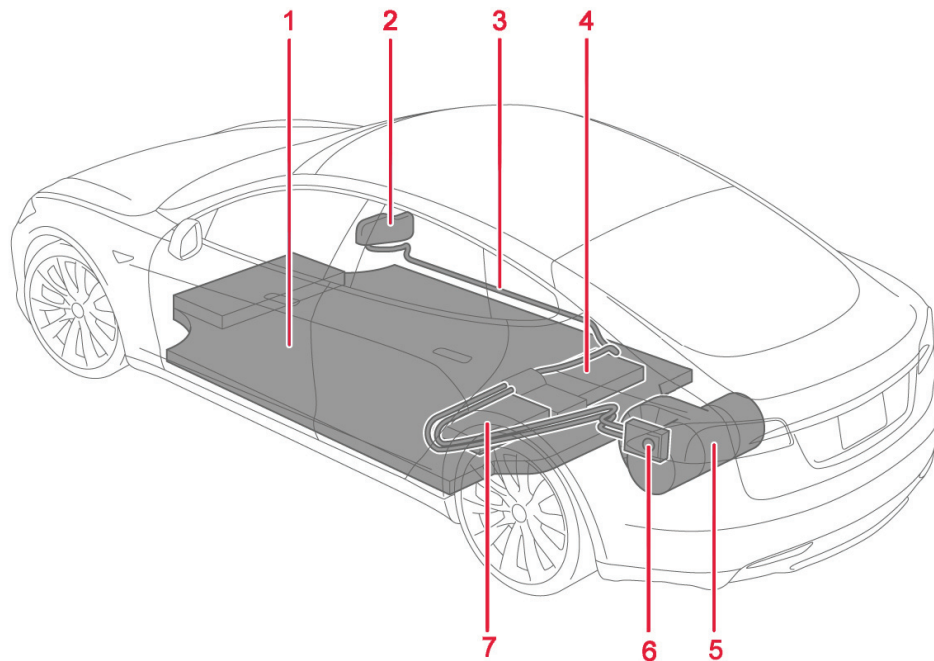
Model S has a charge port that is integrated into the taillight on the rear driver's side fender.





## OVERVIEW OF HIGH VOLTAGE COMPONENTS

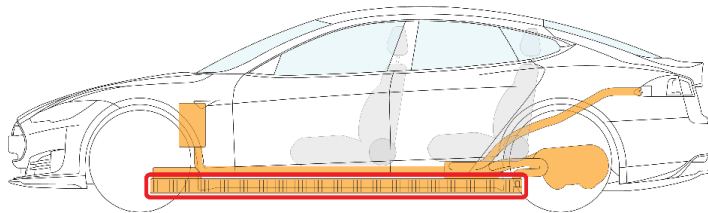
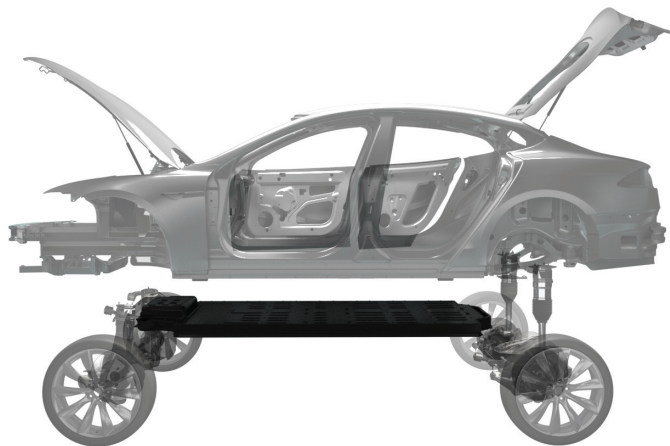
1. Battery
2. DC-DC converter
3. High voltage cabling (colored orange)
4. 10 kW on-board master charger
5. Drive unit
6. Charge port
7. OPTIONAL: 10 kW on-board slave charger



**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

## HIGH VOLTAGE BATTERY

Model S is equipped with a floor-mounted 400 volt lithium-ion high voltage battery. Never breach the high voltage battery when lifting from under the vehicle. When using rescue tools, also pay special attention to ensure that you do not breach the floor pan.



**High voltage battery is located below the floor**

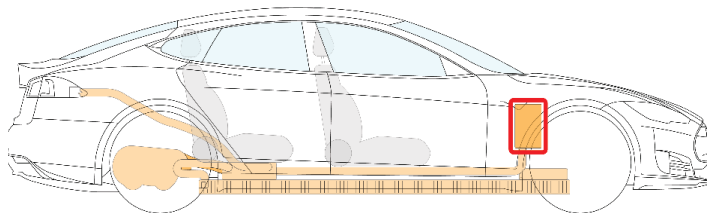


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## DC-DC CONVERTER

The DC-DC converter is located in the front right wheel well, on the passenger side of the firewall. It transforms the high voltage current from the 400 volt battery to low voltage to charge the Model S 12 volt battery. High voltage is present at the DC-DC converter. Use caution when cutting in this area during a dash lift (dash roll) procedure —use work-around techniques, if necessary.



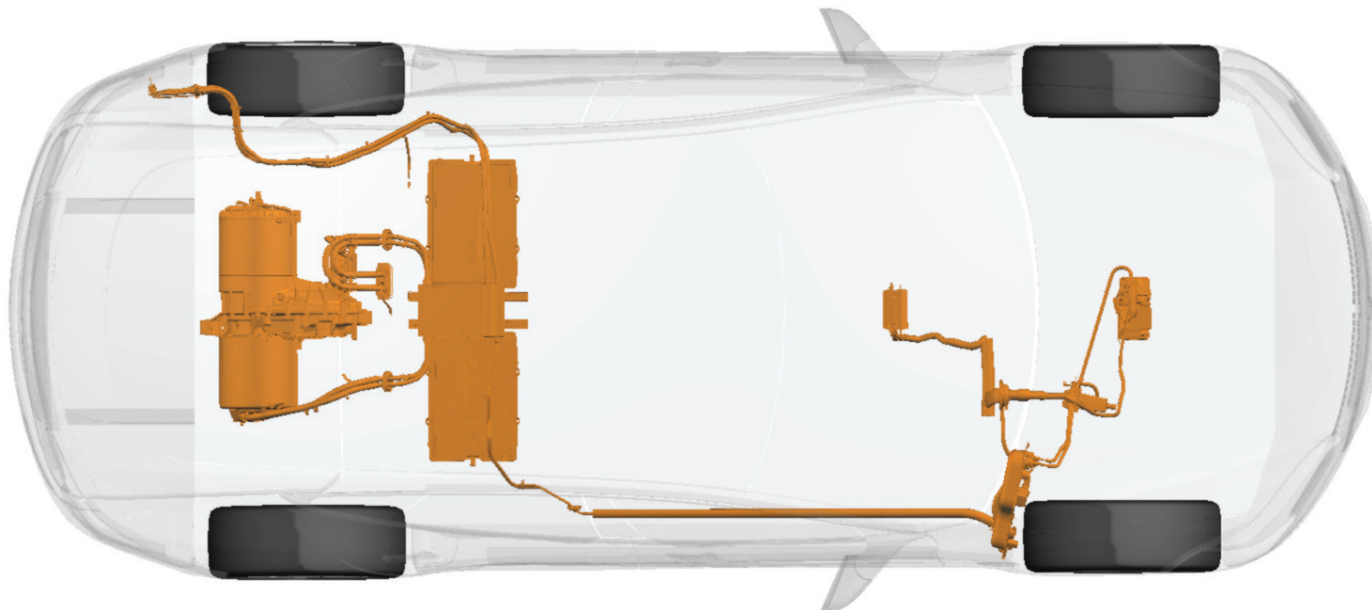
**DC-DC converter is located on the passenger side, towards the front**



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## HIGH VOLTAGE CABLING

High voltage cabling is highlighted in dark orange in the following illustration.



**High voltage cabling is routed under the rear seats and inside the rocker panel on the passenger side front**

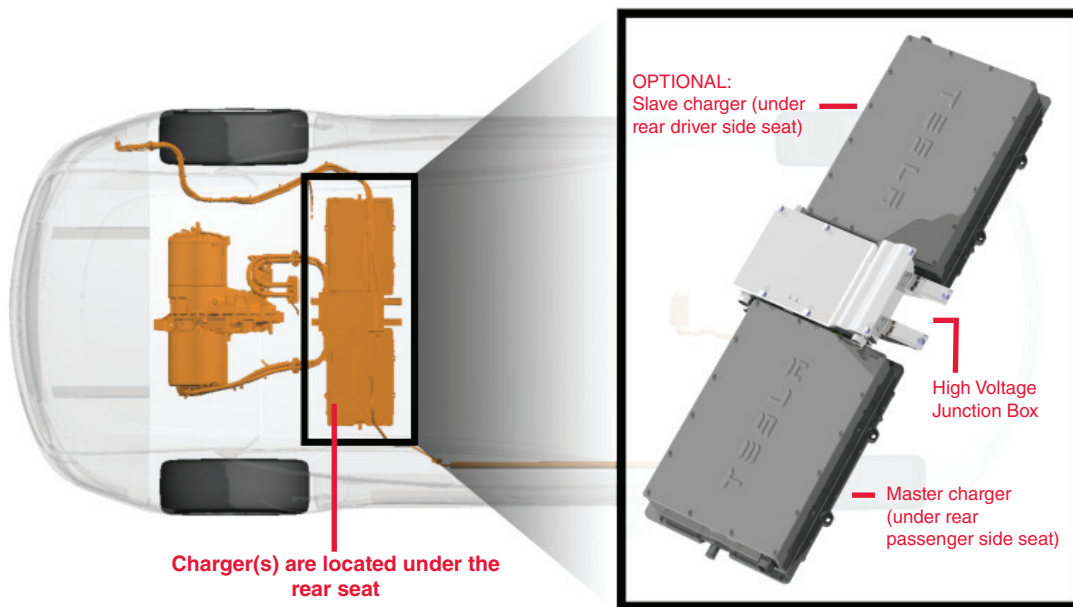


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## CHARGERS

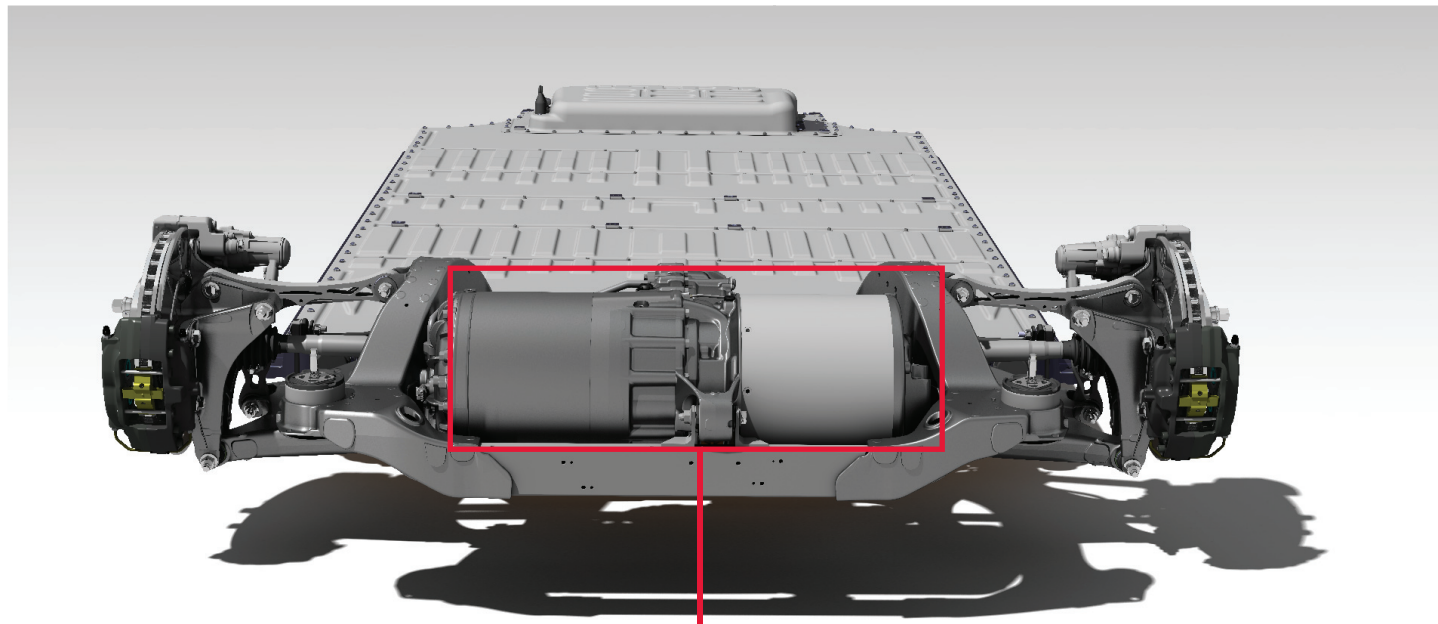
Model S has one (standard) or two (optional) chargers under the rear seat. These chargers convert the AC current from a charging station to DC for charging the high voltage battery. A High Voltage Junction Box, located between the chargers, routes any surplus energy from regenerative braking back to the battery.



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## DRIVE UNIT

The drive unit is located between the rear wheels under the floor pan of the Model S. It converts the DC current from the high voltage battery into the 3-phase AC current that the electric motor uses to power the wheels.



**Drive unit is located between the rear wheels**

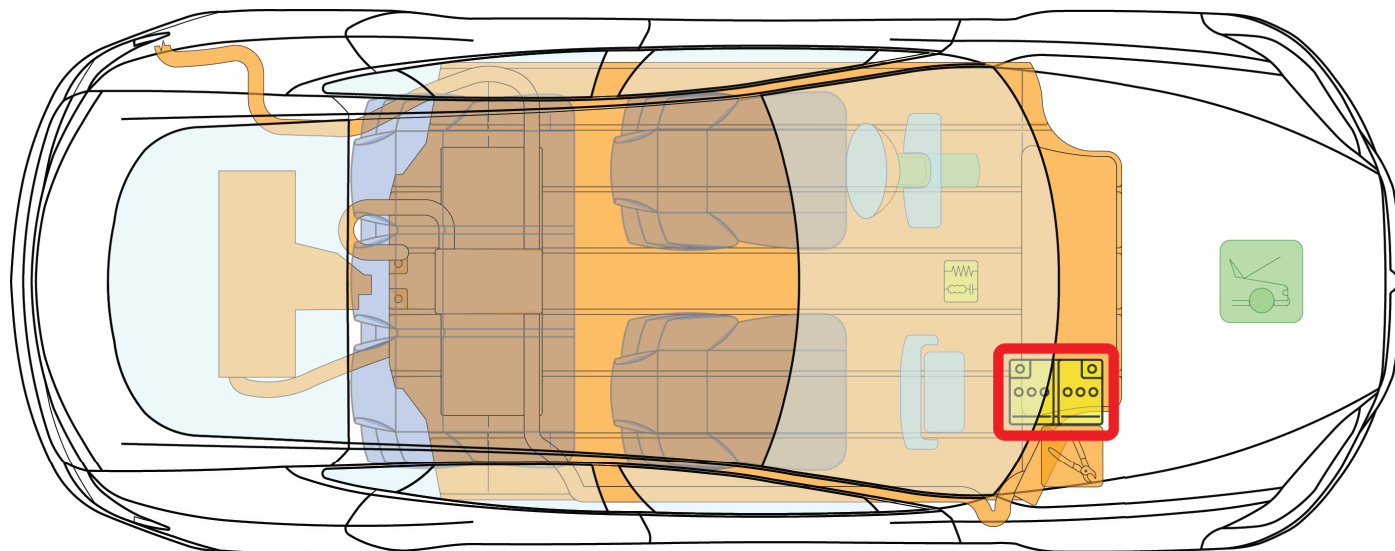


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## 12V BATTERY

In addition to the high voltage system, Model S has a low voltage system, powered by a traditional 12 volt battery. The low voltage system operates the same electrical components found in conventional vehicles, including the supplementary restraint system (SRS), airbags, ignition, touchscreen, and interior and exterior lights.

The low voltage system interacts with the high voltage system. The DC-DC converter supplies the 12V battery with power to support low voltage functions, and the 12V battery supplies power to the high voltage contacts to allow power to flow out of the high voltage battery.



**12V battery is located on the passenger side,  
under the hood and the plastic access panel**

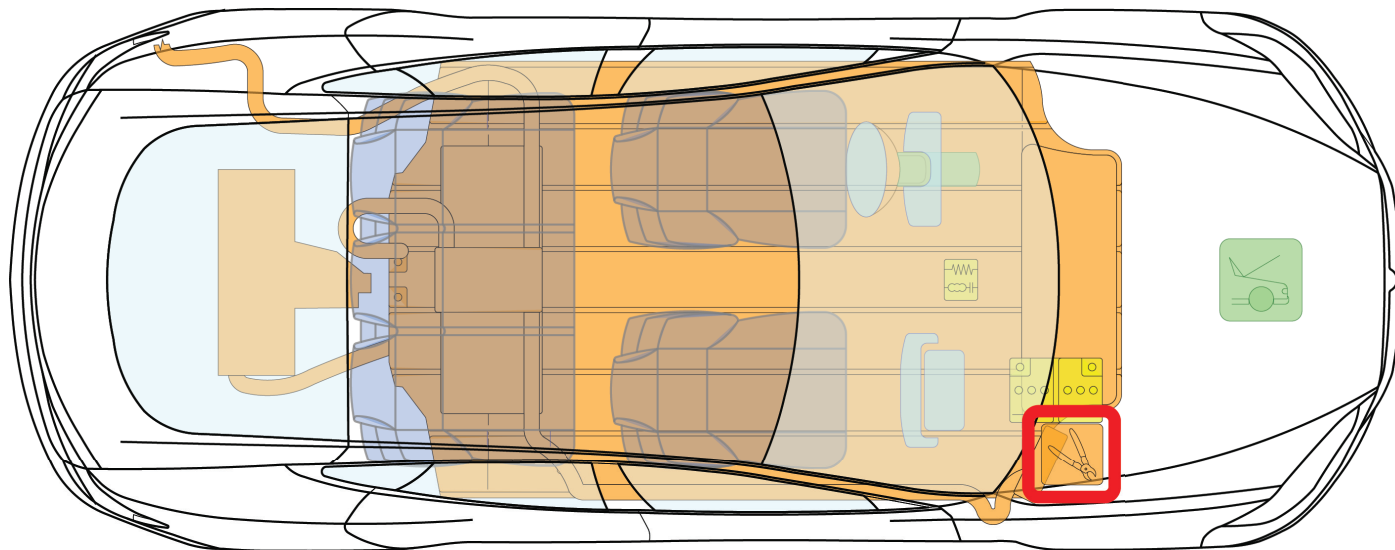


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## FIRST RESPONDER CUT LOOP

The first responder cut loop consists of low voltage wires. Cutting this loop shuts down the high voltage system and disables the SRS and airbag components. See cut instructions on page 11.

**NOTE:** When cutting the loop, double cut to remove an entire section. This eliminates the risk of the cut wires accidentally reconnecting.



**Cut loop is located on the passenger side, under the hood and the plastic access panel**



**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

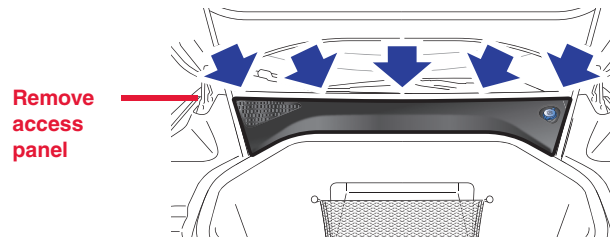
## CUTTING THE FIRST RESPONDER LOOP

**STEP 1:** Open the hood (also known as the Front Trunk). See page 21 for details.

The cut loop is located on the passenger side. Its label protrudes from under the plastic access panel.



**STEP 2:** Remove the access panel by pulling its rear edge upward to release the five clips that hold it in place. Maneuver it toward the windshield to remove.



**STEP 3: DOUBLE CUT** the loop to remove an entire section.

Removing an entire section of the cut loop eliminates the risk of the wires accidentally touching (reconnecting).



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## STABILIZING MODEL S

### CHOCK ALL FOUR WHEELS

Drivers can choose a setting that determines whether or not Model S will “creep” when a driving gear is selected. If this setting is off, Model S does not move unless the accelerator is pressed, even if shifted into Drive or Reverse. Therefore, never assume that Model S will not move. Always chock the wheels.



### SHIFT INTO PARK

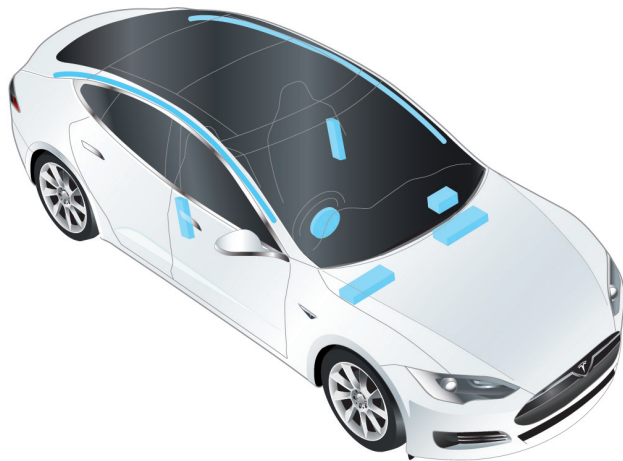
Model S is silent so never assume it is powered off. Pressing the accelerator pedal even slightly can cause Model S to move quickly if the currently active gear is Drive or Reverse. To ensure that the parking brake is engaged, press the button on the end of the gear selector to shift into Park. Whenever Model S is in Park, the parking brake is automatically engaged.



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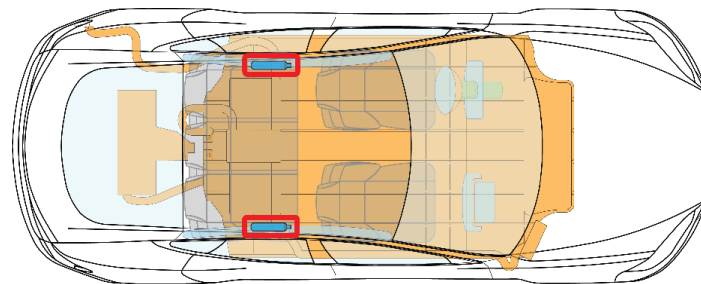
## AIRBAGS

Model S is equipped with eight airbags. Responders should de-energize the airbags by cutting the First Responder Cut Loop (see page 11). Airbags are shown below in blue.



## AIRBAG INFLATION CYLINDERS

Airbag (stored gas) inflation cylinders are located toward the rear of the vehicle, as shown below in red.



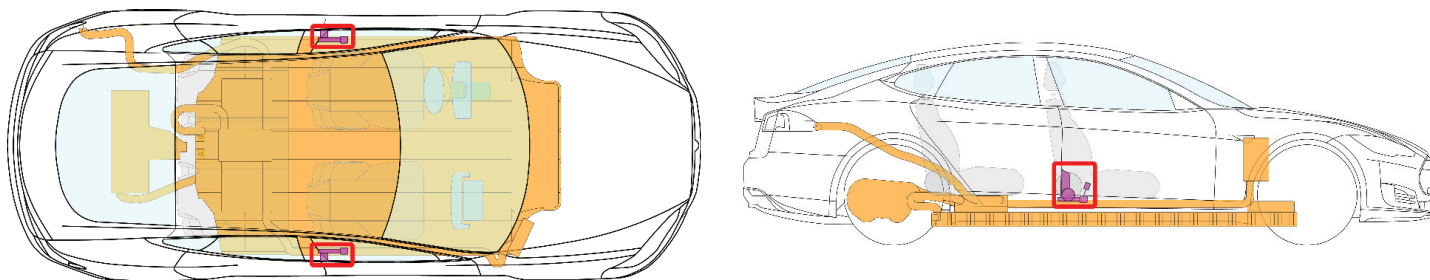
**Airbag inflation cylinders are located toward the rear**



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## SEAT BELT PRE-TENSIONERS

Seat belt pre-tensioners are located by the B-pillars, as shown below in red.



**Seat belt pre-tensioners are located by the B-pillars**



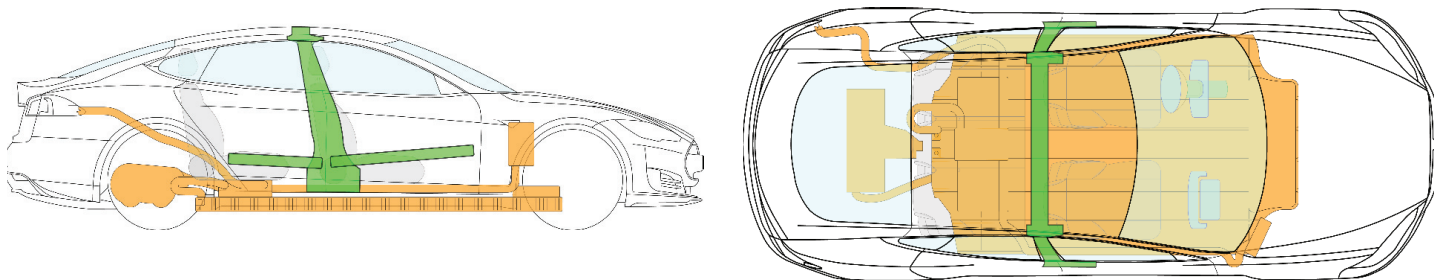
**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.



## LOCATION OF REINFORCEMENTS AND HIGH STRENGTH STEEL

Model S is reinforced to protect occupants in a collision. Reinforcements are shown below in green.

Only the B-pillars are reinforced with high strength steel. Depending on the tools used, high strength steel can be challenging or impossible to cut. If necessary, use workaround techniques.



**Only the B-pillars are reinforced  
with high strength steel**



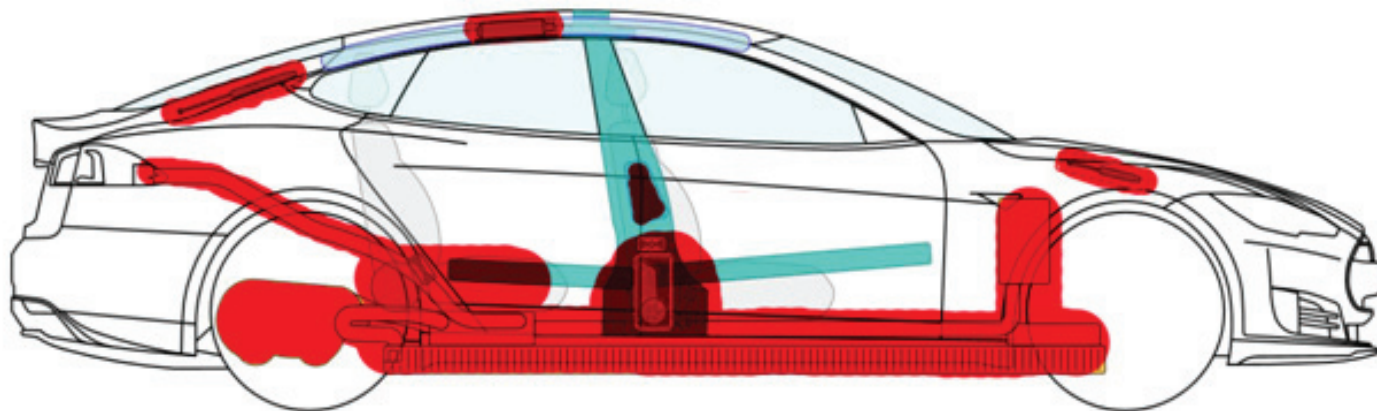
**WARNING:** Always use appropriate tools (such as a hydraulic cutter), and always wear appropriate Personal Protective Equipment (PPE) when cutting Model S. Failure to follow these instructions can result in serious injury or death.



**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

## NO-CUT ZONES

Model S has areas that are defined as “no-cut zones” due to high voltage, gas struts, and SRS or airbag hazards. Never cut or crush these areas—doing so can result in serious injury or death.



**Do not cut through areas shown in red**

**!** **WARNING:** Always use appropriate tools (such as a hydraulic cutter), and always wear appropriate Personal Protective Equipment (PPE) when cutting Model S. Failure to follow these instructions can result in serious injury or death.

**!** **WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

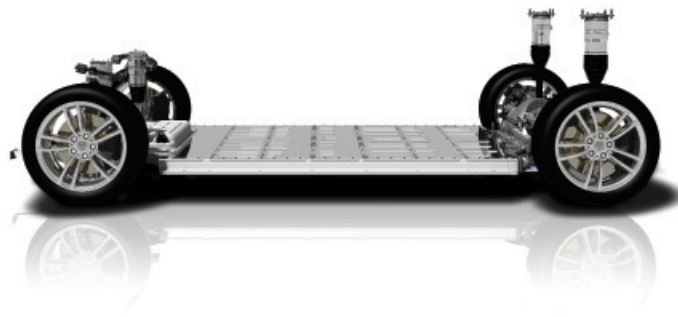
## FULLY OR PARTIALLY SUBMERGED VEHICLES

Treat a submerged Model S like any other vehicle. The body of the vehicle does not present a risk of shock in water. Remove the vehicle from the water and continue with normal high voltage disabling.



## PUSHING ON THE FLOOR PAN

The high voltage battery is located below the floor pan. Never push down on the floor pan from inside Model S. Doing so can breach the high voltage battery, which can cause serious injury or death.



**WARNING:** Failure to handle a submerged vehicle without appropriate PPE can result in serious injury or death.



**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

## FIREFIGHTING

Extinguish small fires, that do not involve the high voltage battery, using a CO<sub>2</sub> or ABC extinguisher.

During overhaul, do not make contact with any high voltage component. Always use insulated tools for overhaul.

Stored gas inflation cylinders, gas struts, and other components can BLEVE (Boiling Liquid Expanding Vapor Explosion) in extreme temperatures. Perform an adequate “knock down” on the fire before entering the incident’s “hot zone.”

If the high voltage battery becomes involved in fire or is bent, twisted, damaged, or breached in any way, or if you suspect that the battery is heating, use large amounts of water to cool the battery. DO NOT extinguish fire with a small amount of water. Always establish or request an additional water supply.

Battery fires can take up to 24 hours to fully extinguish. Consider allowing the vehicle to burn while protecting exposures.

Use a thermal imaging camera to ensure the high voltage battery is completely cooled before leaving the incident. If a thermal imaging camera is not available, you must monitor the battery for re-ignition. Smoke indicates that the battery is still heating. Do not release the vehicle to second responders until there has been no sign of smoke from the battery for at least one hour.

Always advise second responders (law enforcement, tow personnel) that there is a risk of the battery re-igniting. After a Model S has been involved in a submersion, fire, or a collision that has compromised the high voltage battery, always store it in an open area with no exposures within 50 feet.



**WARNING:** When fire is involved, consider the entire vehicle energized and DO NOT TOUCH any part of the vehicle. Always wear full PPE (Personal Protective Equipment), including SCBA (Self-Contained Breathing Apparatus).



**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.

## HIGH VOLTAGE BATTERY - FIRE DAMAGE

A burning or heating battery releases toxic vapors. These vapors include H<sub>2</sub>SO<sub>4</sub>, oxides of carbon, nickel, aluminum, lithium, copper, and cobalt. Responders should wear full PPE, including SCBA, and take appropriate measures to protect civilians downwind from the incident. Use fog streams or PPV (Positive Pressure Ventilation) fans to direct vapors.

The high voltage battery consists of lithium-ion cells. These are considered dry cell batteries. If damaged, only a small amount of battery fluid can leak. Lithium-ion battery fluid is clear in color.

The high voltage battery, the drive unit, the charge controllers, and the DC-DC converter are liquid cooled with typical glycol-based coolant. If damaged, blue fluid can leak out of the battery.

A damaged high voltage battery can cause rapid heating of the battery cells. If you notice smoke coming from the battery area, assume the battery is heating and take appropriate action as described under the heading “FIREFIGHTING” on this page.

## LIFT AREAS

The high voltage battery is located below the floor, under a floor pan. A large section of the undercarriage houses this battery. When lifting Model S, do not push on the high voltage battery. When lifting or jacking, use only the designated lifting areas.



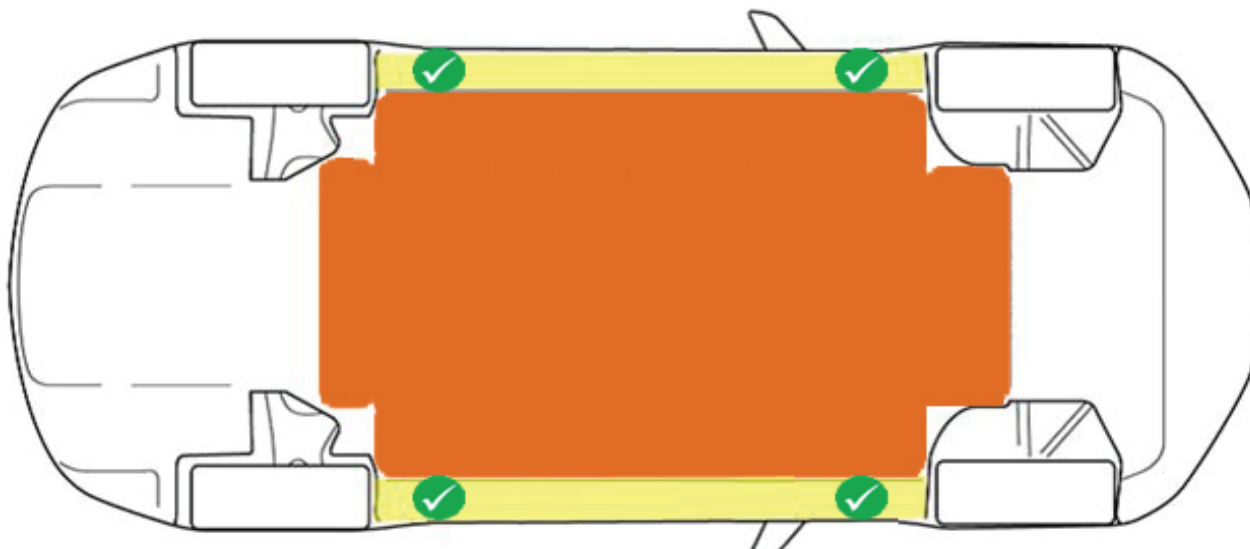
Appropriate lifting locations

**Yellow**

Safe stabilization points for a side-resting Model S

**Orange**

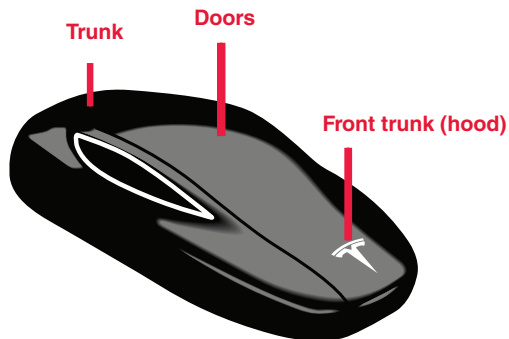
High voltage battery. **DO NOT USE THIS AREA TO LIFT OR STABILIZE MODEL S!**



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## USING THE KEY

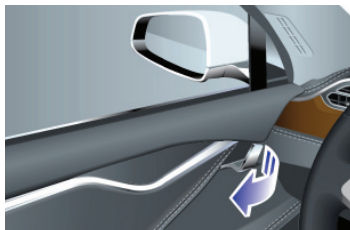
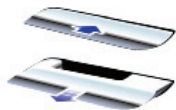
Use the key's buttons as shown below.



## OPENING DOORS

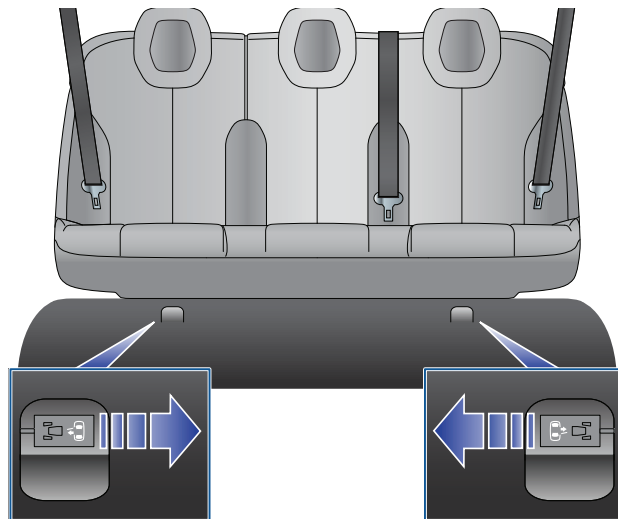
Model S has unique door handles. Under normal conditions, when you press a handle, it extends\* to allow you to open the door.

If door handles do not function, open the door manually by reaching inside the window and using the interior handle.



## OPENING REAR DOORS WITH NO POWER

Open rear doors from inside by folding back the edge of the carpet below the rear seats to access the mechanical release cable. Pull the mechanical release cable toward the center.

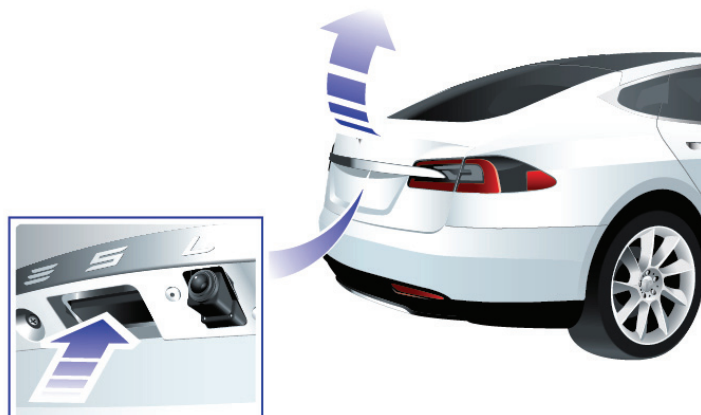
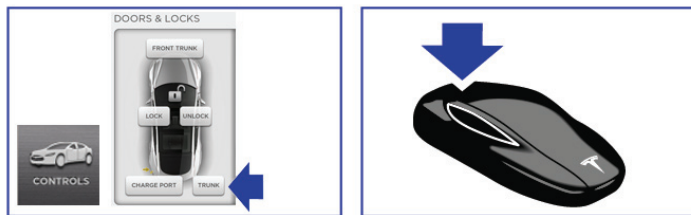


*\*NOTE: When an airbag inflates, Model S unlocks all doors, unlocks the trunk, and extends all door handles.*

## OPENING THE TRUNK

Use one of the following methods:

- Press the switch located under the handle.
- Touch Trunk on the touchscreen CONTROLS window.
- Double-click the trunk button on the key.

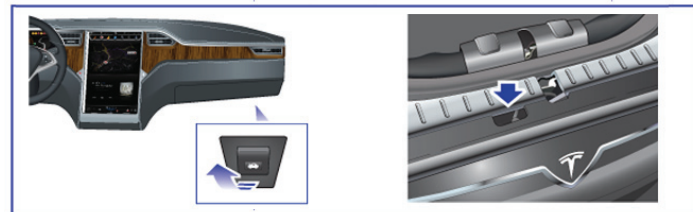
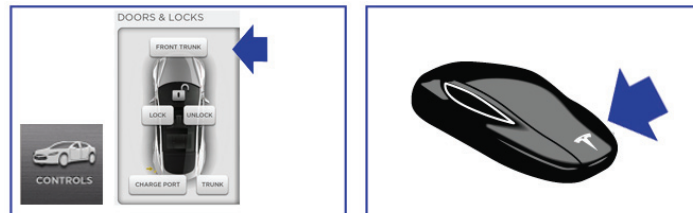


## OPENING THE HOOD (FRONT TRUNK)

Model S does not have a traditional engine. Therefore, the area that would normally house the engine is used as additional storage space. Tesla calls this area the “Front Trunk” or “Frunk.”

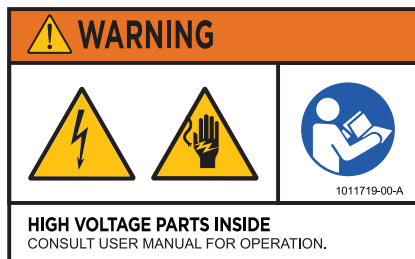
To open, use one of the following methods:

- Touch Front Trunk on the touchscreen.
- Double-click the Front Trunk (hood) button on the key.
- Pull the release handle located under the glove box, then push down on the secondary catch lever. To release the pressure against the secondary catch, you may need to push the hood down slightly.



## HIGH VOLTAGE LABELS

Examples of labels located on high voltage components are shown below.



**⚠ DANGER**

<p><b>HIGH VOLTAGE COMPONENTS</b> KEEP OUT OF REACH OF CHILDREN</p> <ul style="list-style-type: none"> <li>NEVER ATTEMPT TO REMOVE, DISASSEMBLE, OR MODIFY THIS UNIT OR USE IT FOR OTHER THAN ITS INTENDED PURPOSE. (PLEASE HAVE YOUR TESLA SERVICE CENTER OR A QUALIFIED TECHNICIAN HANDLE THE BATTERY.)</li> <li>DO NOT DISPOSE OF THIS UNIT. PLEASE CONTACT YOUR TESLA SERVICE CENTER FOR RECYCLING OR DISPOSAL OF THE BATTERY UNIT.</li> <li>DO NOT SUBJECT THIS UNIT TO PHYSICAL IMPACT THAT MAY CAUSE DAMAGE.</li> <li>KEEP THIS UNIT AWAY FROM FIRE.</li> <li>TRANSPORT THIS UNIT IN ACCORDANCE WITH ALL APPLICABLE LAWS.</li> </ul>	<p><b>TO QUALIFIED ELECTRIC VEHICLE TECHNICIANS</b> BE SURE TO READ THE SERVICE MANUAL WHEN SERVICING OR REPLACING THIS UNIT.</p> <p><b>TO HAULERS AND DISMANTLERS</b> PLEASE CONSULT WITH YOUR LOCAL TESLA SERVICE CENTER WHEN HAULING OR DISMANTLING THIS UNIT.</p> <p><b>HIGH VOLTAGE BATTERY RECYCLING INFORMATION</b> PLEASE CONTACT YOUR LOCAL TESLA SERVICE CENTER FOR RECYCLING OR DISPOSAL OF THIS BATTERY UNIT.</p>	
FAILURE TO OBSERVE THE ABOVE MAY RESULT IN ELECTRICAL SHOCK, FIRE, OR SERIOUS INJURY.		
<p><b>COMPOSANTS HAUTE TENSION</b> TENIR HORS DE PORTEE DES ENFANTS</p> <ul style="list-style-type: none"> <li>NE TENTEZ JAMAIS D'ENLEVER, DE DÉMONTÉ OU DE MODIFIER CETTE BATTERIE, OU DE L'UTILISER POUR TOUT AUTRE USAGE QUE SON UTILISATION PRÉVUE. (TOUTE OPÉRATION SUR LA BATTERIE DOIT ÊTRE RÉALISÉE PAR UN CENTRE DE SERVICES TESLA OU UN TECHNICIEN QUALIFIÉ.)</li> <li>NE PAS JETER. CONTACTEZ VOTRE CENTRE DE SERVICES TESLA EN VUE DU RECYCLAGE DE CETTE BATTERIE OU DE SON ÉLIMINATION.</li> <li>NE PAS SOUMETTRE CETTE BATTERIE À TOUT CHOC OU CONTACT SUSCEPTIBLE DE L'ENDOMMAGER.</li> <li>TENIR ÉLOIGNÉ DE TOUT FLAMME.</li> <li>LE TRANSPORT DE CETTE BATTERIE DOIT SE CONFORMER À TOUTE RÉGLEMENTATION APPLICABLE.</li> </ul>	<p><b>À L'ATTENTION DES TECHNICIENS QUALIFIÉS VÉHICULES ÉLECTRIQUES</b> SE REPORTER AU MANUEL D'ENTRETIEN LORS DE TOUTE OPÉRATION DE MAINTENANCE OU DE REMPLACEMENT DE CETTE BATTERIE.</p> <p><b>À L'ATTENTION DES TRANSPORTEURS ET DÉMANTELEURS</b> VEUILLEZ CONTACTER LE CENTRE DE SERVICES TESLA LOCAL POUR TOUTE OPÉRATION DE TRANSPORT OU DE DÉMANTELLEMENT DE CETTE BATTERIE.</p> <p><b>INFORMATIONS CONCERNANT LE RECYCLAGE DES BATTERIES HAUTE TENSION</b> VEUILLEZ CONTACTER LE CENTRE DE SERVICES TESLA POUR TOUTE OPÉRATION DE RECYCLAGE OU D'ÉLIMINATION DE CETTE BATTERIE.</p>	
<p><b>TOUT MANÈGE AU RESPECT DES CONSIGNES CI-DESSUS PEUT EXPOSER À DES RISQUES DE CHOC ÉLECTRIQUE, D'INCENDIE OU DE BLESSURE GRAVE.</b></p>		
<p>For Service and Recycling in US: 1-877-79TESLA (1-877-798-3752) For Global Tesla Service Contact: <a href="http://www.teslamotors.com/about/contact">http://www.teslamotors.com/about/contact</a></p>		

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**WARNING:** Regardless of the disabling procedure you use, ALWAYS ASSUME THAT ALL HIGH VOLTAGE COMPONENTS ARE ENERGIZED! Cutting, crushing or touching high voltage components can result in serious injury or death.





## A

airbags 13

## B

badging 1

battery

12V 9

fires 18

fluid 18

high voltage 4

body components 15

## C

cabling, high voltage 6

charge controllers, high voltage 7

charge port 2

cut loop for first responders 10

## D

dash lift caution 5

DC-DC converter 5

door, opening 20

drive inverter, high voltage 8

## F

fires 18

fluids 18

## H

high voltage components

battery 4

battery fires 18

cabling 6

charge controllers 7

DC-DC converter 5

drive inverter 8

labels 22

overview of 3

hood, opening 21

## I

identifying Model S

badging 1

charge port 2

large screen 2

instrument panel 2

## J

jacking Model S 19

## K

key, using 20

## L

labels, high voltage 22

lifting Model S 19

lithium-ion cells 18

locking, using key 20

low voltage system 9

## P

PARK gear 12

pre-tensioners, seat belt 14

## R

reinforcements, location of 15

rescue operations

firefighting 18

floor pan 17

submerged vehicles 17

## S

seat belt pre-tensioners 14

second responders 18

side-resting vehicles 19

smoke 18

stabilization points (jacking) 19

stabilizing Model S 12

steel, high strength 15

submerged vehicles 17

## T

touchscreen 2

toxic vapors 18

trunk, opening 21

## U

unlocking, using key 20

## V

vapors 18

## W


wheels, chocking 12



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