

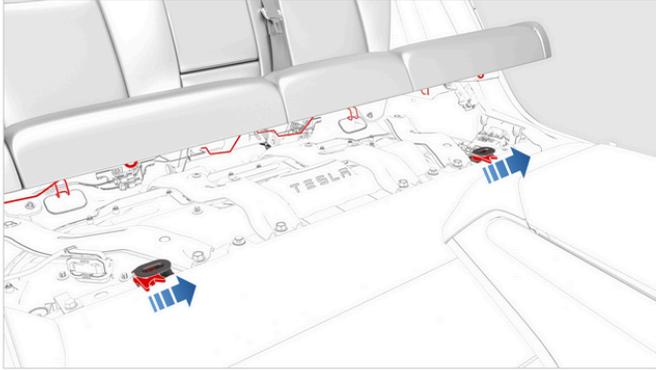
# Tesla Model 3 Sim Replacement Guide

## 1. Remove Rear Seat Cushion

- a. Video: <https://www.youtube.com/watch?v=GNQla0zTg1Q>

**SEAT CUSHION - LOWER - 2ND ROW (REMOVE AND REPLACE)**

**REMOVE**



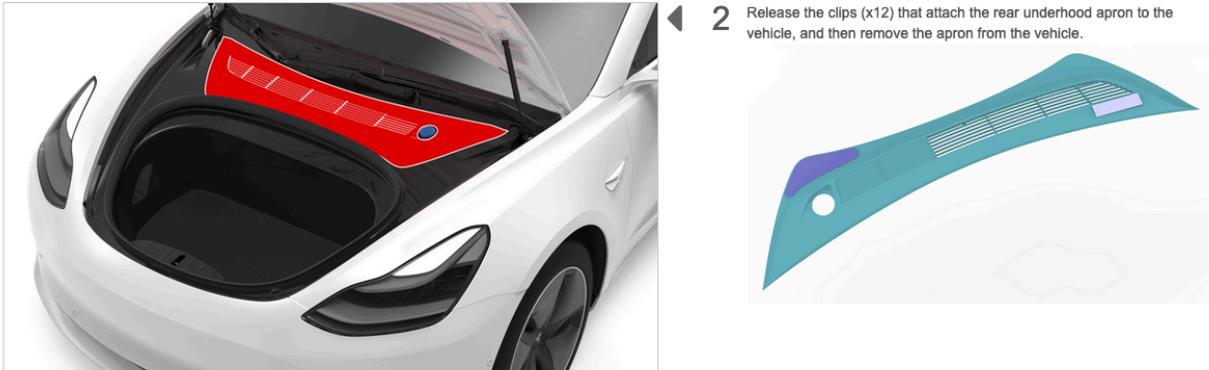
- 1 Move the driver seat and the front passenger seat fully forward.  
*Note: Note the position of the driver seat and the front passenger seat prior to movement so that both seats are restored to their original position during installation.*
- 2 While pressing the LH and RH tabs towards the LH side of the vehicle, lift the front edge of the seat cushion.
- 3 Disconnect the electrical connectors on each end of the seat cushion, and then remove the seat cushion from the vehicle.

## 2. Remove Under hood Apron

- a. Video: <https://youtu.be/ECBoNunl8z8?t=83>

**UNDERHOOD APRON - REAR (REMOVE AND REPLACE)**

**REMOVE**



- 1 Open the hood.
- 2 Release the clips (x12) that attach the rear underhood apron to the vehicle, and then remove the apron from the vehicle.

## 3. Disconnect 12V Power

- a. Video: <https://www.youtube.com/watch?v=F-cMdnFzvsA>

## 12V POWER (DISCONNECT AND CONNECT)

**⚠ Warning:** This procedure disables 12V power, but does not verify that high voltage power is no longer available to high voltage components (PTC heater, A/C compressor, inverters, etc). Perform [Vehicle Electrical Isolation Procedure](#) after this procedure, and before servicing high voltage components.



Parent topic: [1701 - 12V Battery and Fuses](#)

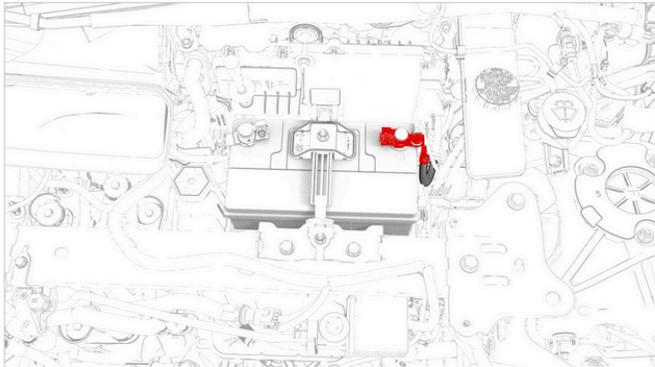
### DISCONNECT

**⚠ Warning:** Prepare for these conditions before disconnecting 12V power:

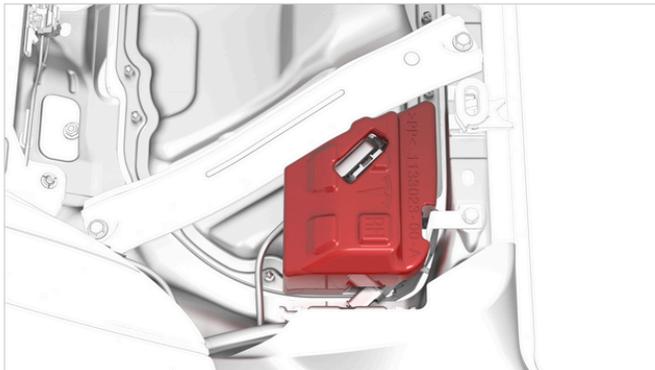
- Closed windows might shatter if the door is opened.
- Closed doors might cause a lockout condition.
- Airbags do not deploy.
- Systems, displays, and other controls are off.

- 1 Disconnect any charging cable.
- 2 On the touchscreen, power off the climate control system, and wait at least 30 seconds for the climate control system to completely shut down.
- 3 Make sure the vehicle is in Park.
- 4 Fully lower all door windows to avoid glass shatter and door lockout conditions.
- 5 Open the LH and RH rear doors, and then pass a shop towel halfway through each door striker to prevent the latch from securing.
- 6 Remove the 2nd row lower seat cushion. See [Seat Cushion - Lower - 2nd Row \(Remove and Replace\)](#).
- 7 Remove the rear underhood apron. See [Underhood Apron - Rear \(Remove and Replace\)](#).
- 8 On the touchscreen, touch **Controls > Safety & Security > Vehicle Power > Power Off**.

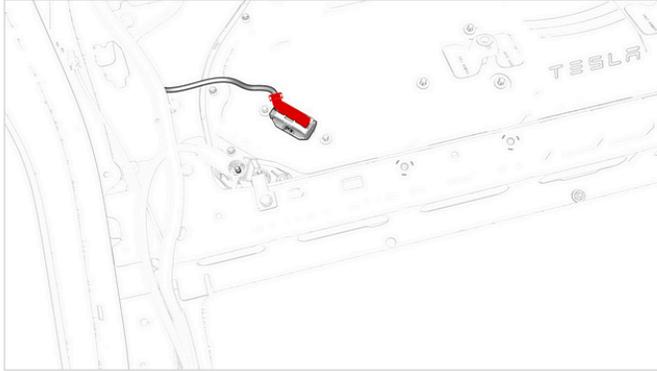
**⚠ Caution:** Do not proceed until the climate control system has been powered off for at least 30 seconds. Do not disconnect 12V power while the climate control system is operational.



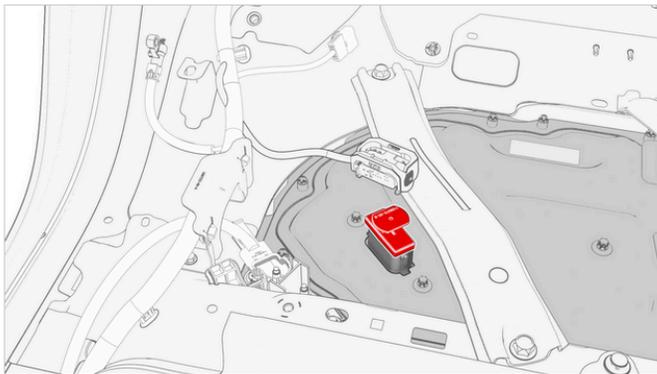
- 1 Loosen the nut that attaches the 12V battery negative cable to the battery, and then disconnect the cable from the battery.



- 2 Remove the foam cover from the RH side of the penthouse.



- 3 Disconnect the electrical harness from the high voltage controller connector.  
**Note:** The HV battery positive contactor and negative contactor open with a clunk sound.



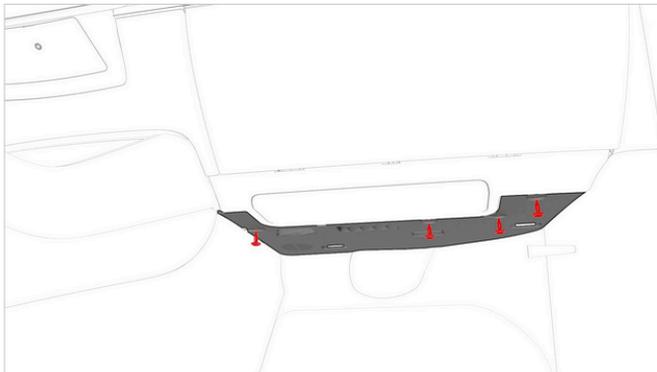
- 4 Install the logic connector cap onto the high voltage controller connector to prevent mistaken reconnection and protect the connector.

- 5 If you disconnected 12V power to service a high voltage component, verify that high voltage power is no longer available to that component. See [Vehicle Electrical Isolation Procedure](#).

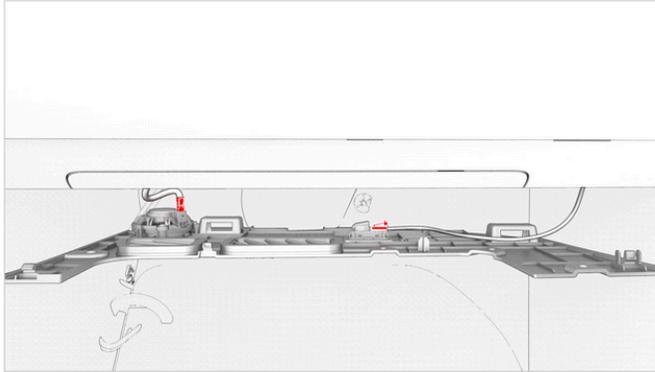
#### 4. Remove Passenger Side Footwell Cover

COVER - FOOTWELL - PASSENGER (LHD) (REMOVE AND REPLACE)

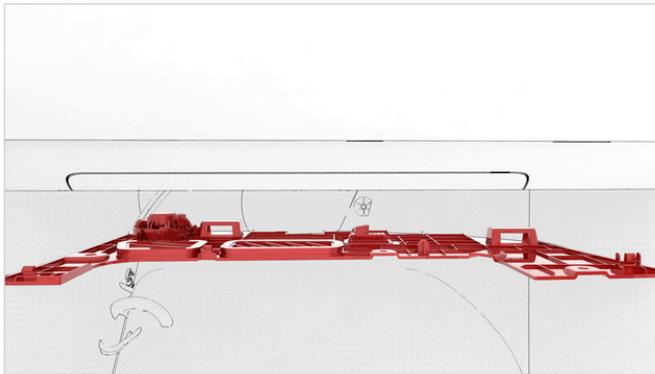
##### REMOVE



- 1 Release the clips that attach the passenger footwell cover to the vehicle.



- ◀ 2 Disconnect the electrical wiring harness connectors from the puddle light and emergency speaker.



- ◀ 3 Remove the footwell cover from the vehicle.

## 5. Remove Passenger Side Knee Airbag

### AIRBAG - KNEE - FRONT PASSENGER (REMOVE AND REPLACE)

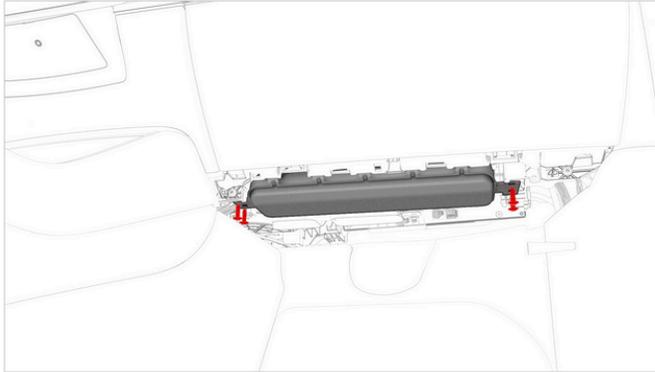
#### REMOVE



- 1 Remove the 2nd row lower seat cushion. See [Seat Cushion - Lower - 2nd Row \(Remove and Replace\)](#).
- 2 Remove the rear underhood apron. See [Underhood Apron - Rear \(Remove and Replace\)](#).
- 3 Disconnect 12V power. See [12V Power \(Disconnect and Connect\)](#).
- 4 Remove the passenger footwell cover. See [Cover - Footwell - Passenger \(LHD\) \(Remove and Replace\)](#).
- ◀ 5 Remove the bolts (x2) that attach the front passenger knee airbag to the instrument panel.



Torque 2 Nm

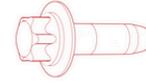


- ◀ **6** While supporting the front passenger knee airbag, remove and discard the bolts (x4) that attach the front passenger knee airbag to the instrument panel.

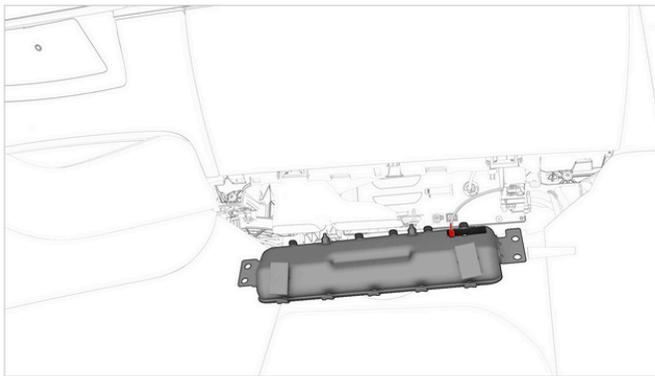


**Torque 8 Nm**

or



**Torque 8 Nm**

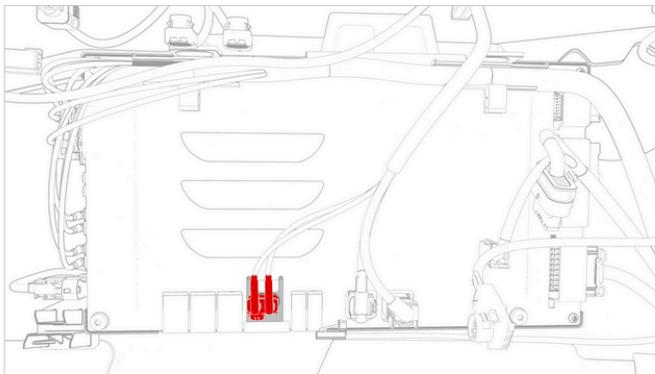


- ◀ **7** Disconnect the electrical connector from the front passenger knee airbag.

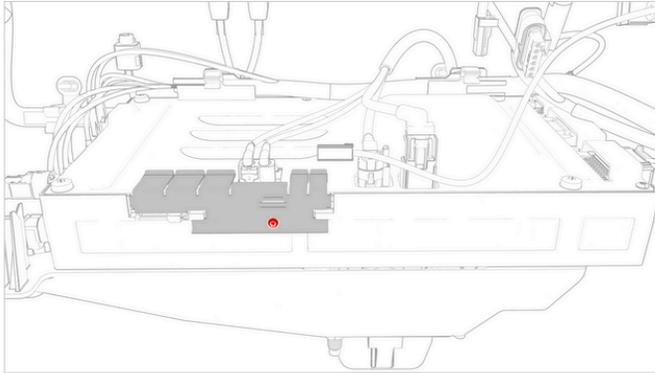
## 6. Remove Car Connectivity Board

### CONNECTIVITY BOARD - CAR COMPUTER (REMOVE AND REPLACE)

#### REMOVE



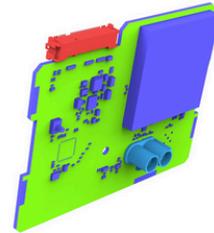
- 1** Remove the front passenger knee airbag. See [Airbag - Knee - Front Passenger \(Remove and Replace\)](#). 
- ◀ **2** Disconnect the electrical connector from the connectivity board.



- 3 Remove the bolt that attaches the connectivity board to the car computer.

- 4 Carefully slide the connectivity board downwards, and then remove the board from the car computer.

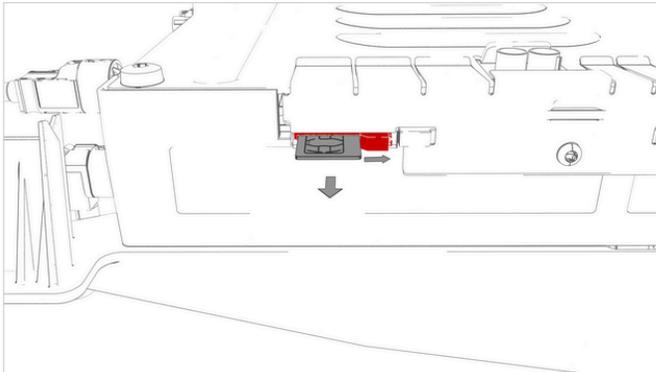
**⚠ Caution:** Do not pull on the double Fakra electrical connector.  
Push on the outer tabs to release the board from the car computer.



## 7. Install new SIM Card

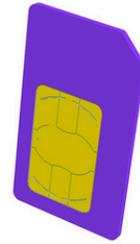
### SIM CARD - CAR COMPUTER (REMOVE AND REPLACE)

#### REMOVE



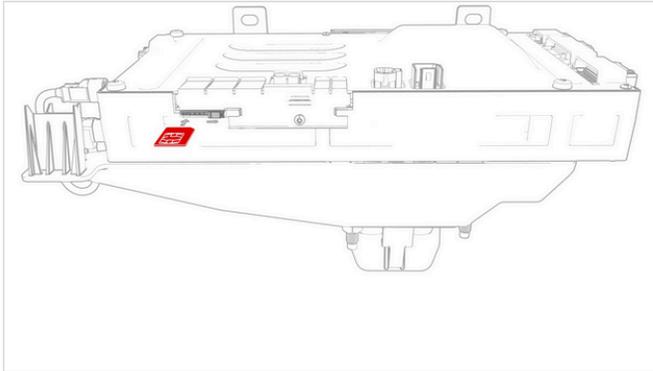
- 1 Remove the car computer connectivity board. See [Connectivity Board - Car Computer \(Remove and Replace\)](#).
- 2 Use a trim tool to move the catch to the right, and release the SIM card from the slot in the car computer.

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- 3 Remove the SIM card from the car computer.



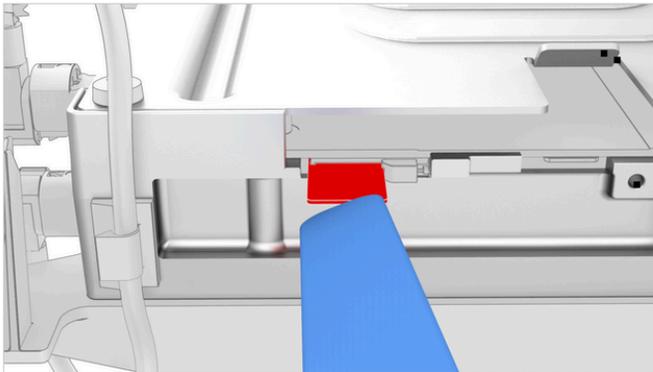
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## INSTALL



- 1 Install the SIM card into the car computer slot with the notch up and the gold pads facing away from the bulkhead.

**⚠ Caution:** Make sure that the SIM card goes into the slot, before releasing your grip of the SIM card.



- 2 Carefully press the SIM card fully into the slot, so that the catch engages.

**⚠ Caution:** If using a thin tool to press the SIM card in, use the tool as shown.

- 3 Install the car computer connectivity board. See [Connectivity Board - Car Computer \(Remove and Replace\)](#). 

## 8. Re-connect Car Connectivity Board

#### CONNECTIVITY BOARD - CAR COMPUTER (REMOVE AND REPLACE)

- 1 Locate the connectivity board into the car computer aperture.  
**Note:** Use the top cover and car computer frame for initial guidance.
- 2 Carefully press the front face of the connectivity board into the car computer.
- 3 Confirm that the connectivity board is fully inserted; slide the connectivity board about 80% inward, and then slightly press the double Fakra connector until the connectivity board is fully seated.  
**Note:** The LTE cassette must be sub-flush of the car computer frame before continuing to the next step.
- 4 Install the bolt that attaches the connectivity board to the car computer.  
  
**Torque 1 Nm**
- 5 Connect the electrical connector to the connectivity board.
- 6 Install the front passenger knee airbag. See [Airbag - Knee - Front Passenger \(Remove and Replace\)](#).
- 7 Use Toolbox to update the vehicle firmware.
- 8 Perform a functional check of the LTE service.

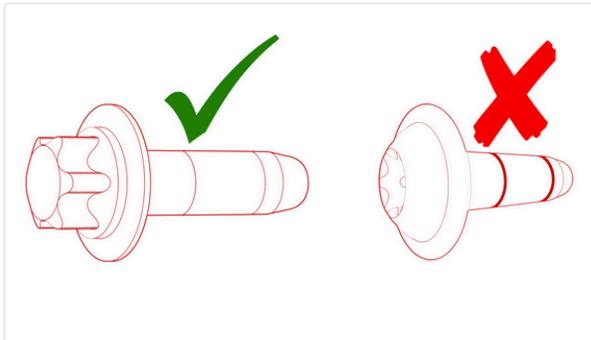
### 9. Re-Install Passenger Side Knee Airbag

#### AIRBAG - KNEE - FRONT PASSENGER (REMOVE AND REPLACE)

##### INSTALL

Installation procedure is the reverse of removal, except for the following:

**Note:** Install new Torx External E10 bolts (x4) on the front passenger knee air bag. Do not use Torx T30 bolts (pictured).



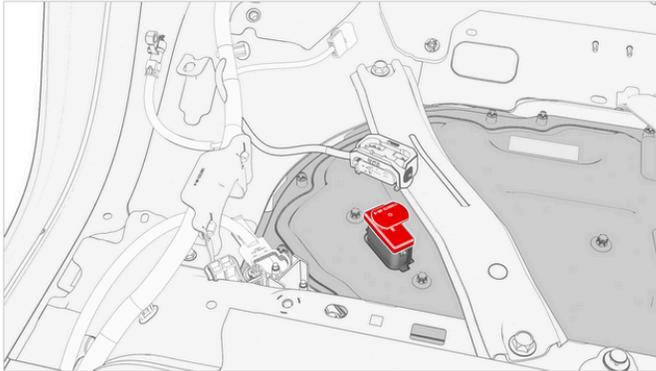
Replace all patchbolts.

### 10. Re-Install Passenger Side Footwell Cover

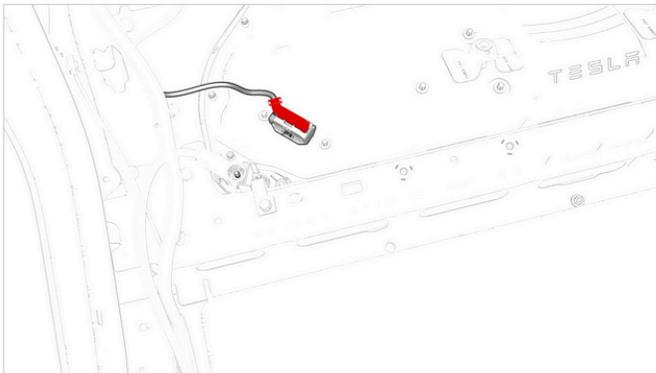
- a. Same as removal but in reverse

### 11. Re-Connect 12V Power

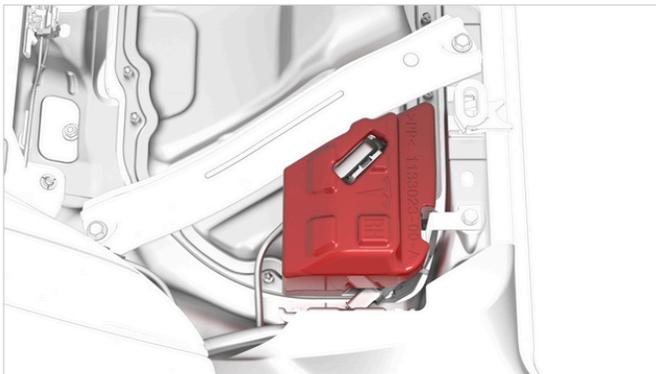
## CONNECT



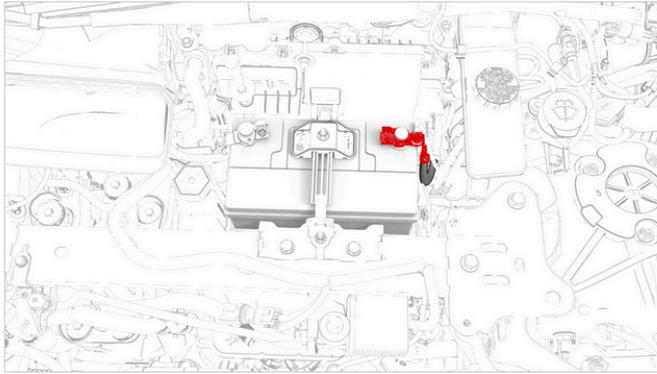
- 1 Remove the logic connector cap from the high voltage controller connector.



- 2 Connect the electrical harness to the high voltage controller connector.

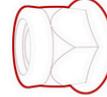


- 3 Install the foam cover to the RH side of the penthouse.



4 Install the 2nd row lower seat cushion. See [Seat Cushion - Lower - 2nd Row \(Remove and Replace\)](#). 

5 Connect the 12V battery negative cable to the battery, and then tighten the nut which secures the terminal clamp around the battery post. Ensure that the terminal clamp is fully seated down on the battery post before tightening.



Torque 6 Nm

6 Install the rear underhood apron. See [Underhood Apron - Rear \(Remove and Replace\)](#). 

7 Press the brake pedal to turn on vehicle power.

8 Remove the shop towels from the rear door strikers.

9 Close the rear doors.

10 Return the windows, seats, climate control, audio, and charging to the state before service.

12. Re-Install Under hood Apron

a. Same as removal but in reverse

13. Re-Install Rear Seat Cushion

a. Same as removal but in reverse