TESLA MODEL 3 ELECTRIC LIFTGATE INSTALLATION GUIDE

V1.3

NOTE: Installation Precaution

1. It is recommended to have this product installed by a professional to avoid damage caused by improper installation.

2. Do not attempt to disassemble or modify any components included within the kit. Unapproved modifications or evidence of tampering will void any warranty included with the product.

3. Before installation, inspect the vehicle's controls and interior/exterior for any damage or malfunctioning components. Report any damage or non-conformities to the customer prior to installing the product.

4. Inspect the factory lift gate for proper operation and function of lights before installing this product. Improper opening or closing of the lift gate may interfere with the functionality of the Power Lift Gate System.

5. It is recommended to remove or cover any item of clothing (belt buckles, jeans rivets, buttons, etc.) prior to installation of this accessory to prevent damage incurred to the vehicle during the installation.

6. Interior panels that have been removed should be set aside somewhere safe during the installation process to avoid damage.

7. When routing and securing wiring harnesses, care should be exercised to avoid any hot, sharp, or moving objects in the vehicle such as steering column, pedals, dash bracing, HVAC components, etc.

8. Do not deviate from methods of installation in this document. Any damage caused by improper wire routing, incorrect connections, wiring, etc. is not covered under the warranty.

9. After installation, you must manually set the liftgate to the highest position and press the trunk button for 5 seconds until you hear a beep sound to initialize the system

Operation (As of Jul 2019)

	Tesla App	Key Fob (if purchased)	Added Trunk Button	Added Driver Seat Button	Touch Screen
Open	Yes	Yes	Not Applicable	Yes	Yes
Close	Yes	Yes	Yes	Yes	No (greyed out)

Height Setting

To set the height, set the liftgate to your desired height. Press and hold the added button for about 5 seconds, until you hear a beep (Make sure the buzzer is connected).

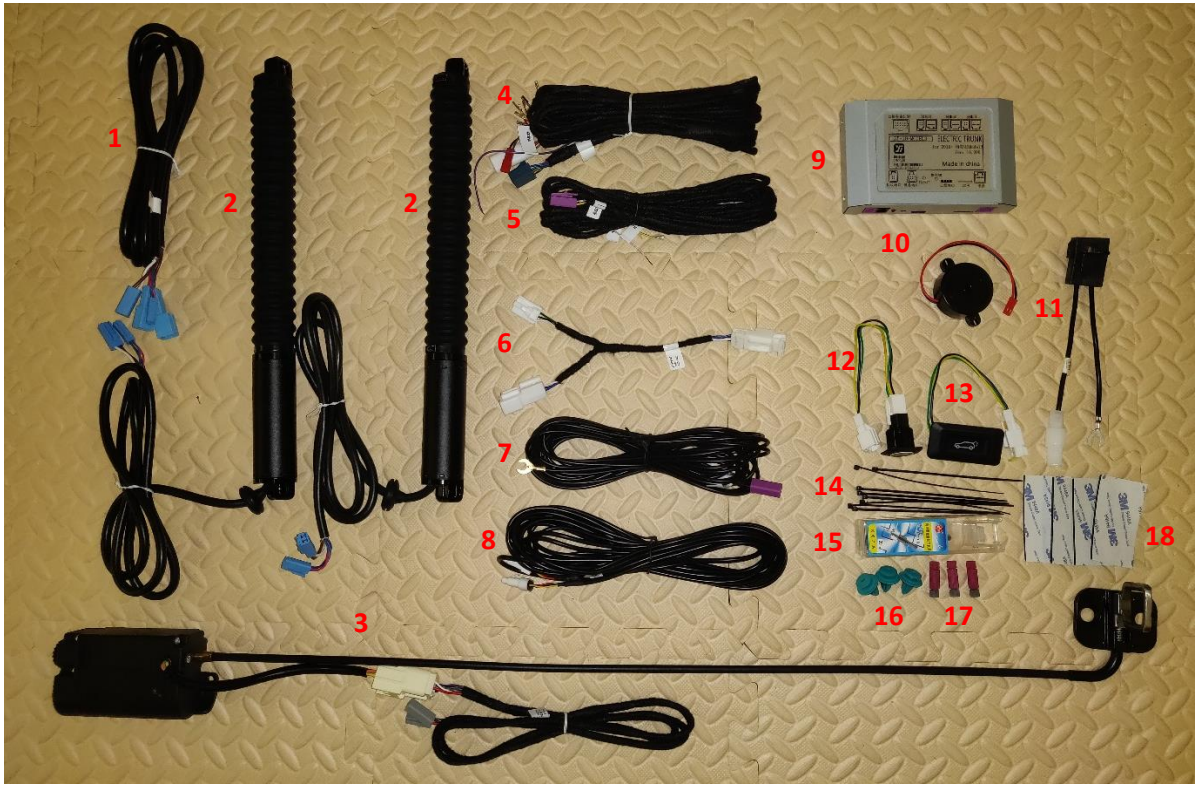
Adjust the opening and closing speed

When the liftgate is in open state, press and hold the added button. Keep on holding the button after you hear the first beep sound. You will eventually hear two long beeps (speed 2), three long beeps (speed 3), four long beeps (speed 4), up to six long beeps (speed 6). Release the button after you hear the speed you want to set. The slowest speed is speed 2 and the highest speed is speed 6. The factory default is at speed 4.

Packing List

#	Part	Qty
1	Extended Cable for Replacement Strut (left)	1
2	Replacement Struts	2
3	Lock Assembly with Latch Motor	1
4	Wire Connector	1
5	CAN Wires	1
6	Liftgate Control Splitter	1
7	Power Cable	1
8	Trunk Control Button (Driver Seat) Cable	1
9	Control Box	1

#	Part	Qty
10	Buzzer	1
11	20A Fuse Power Plug	1
12	Trunk Open/Close Button (driver seat)	1
13	Trunk Close Button (trunk)	1
14	String	10
15	Drill	1
16	Clip	3
17	Positap	3
18	3M tape	4



Wiring Details

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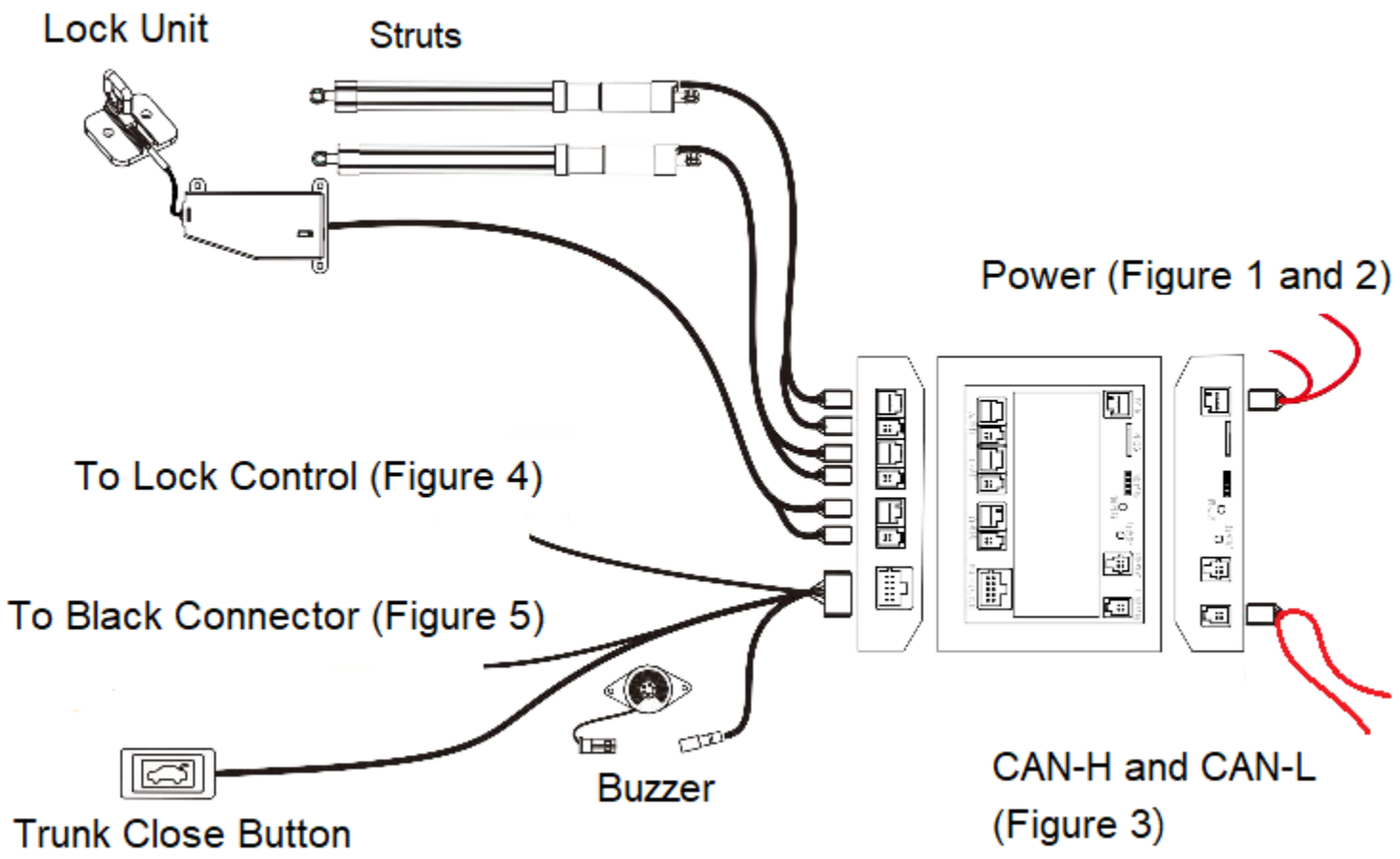
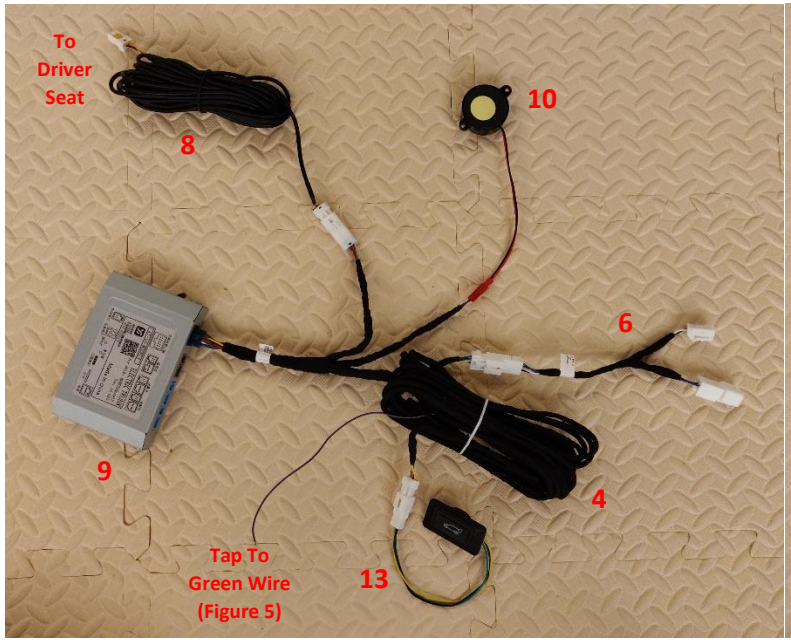
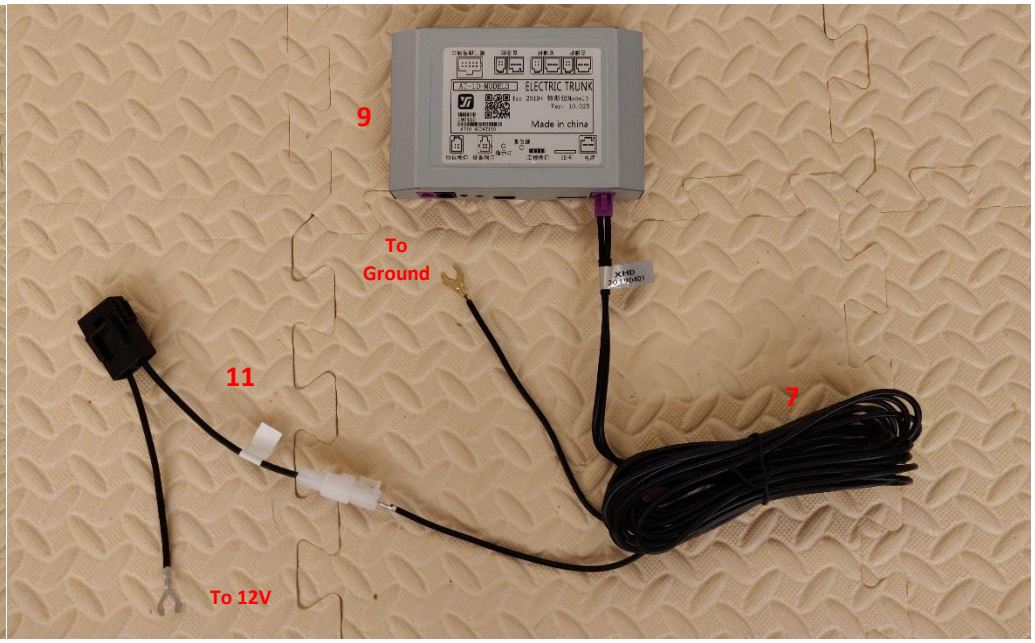
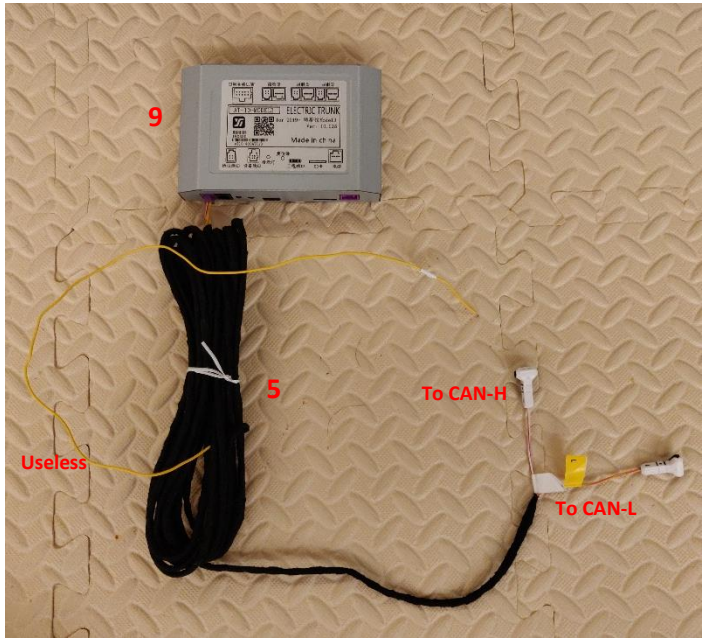
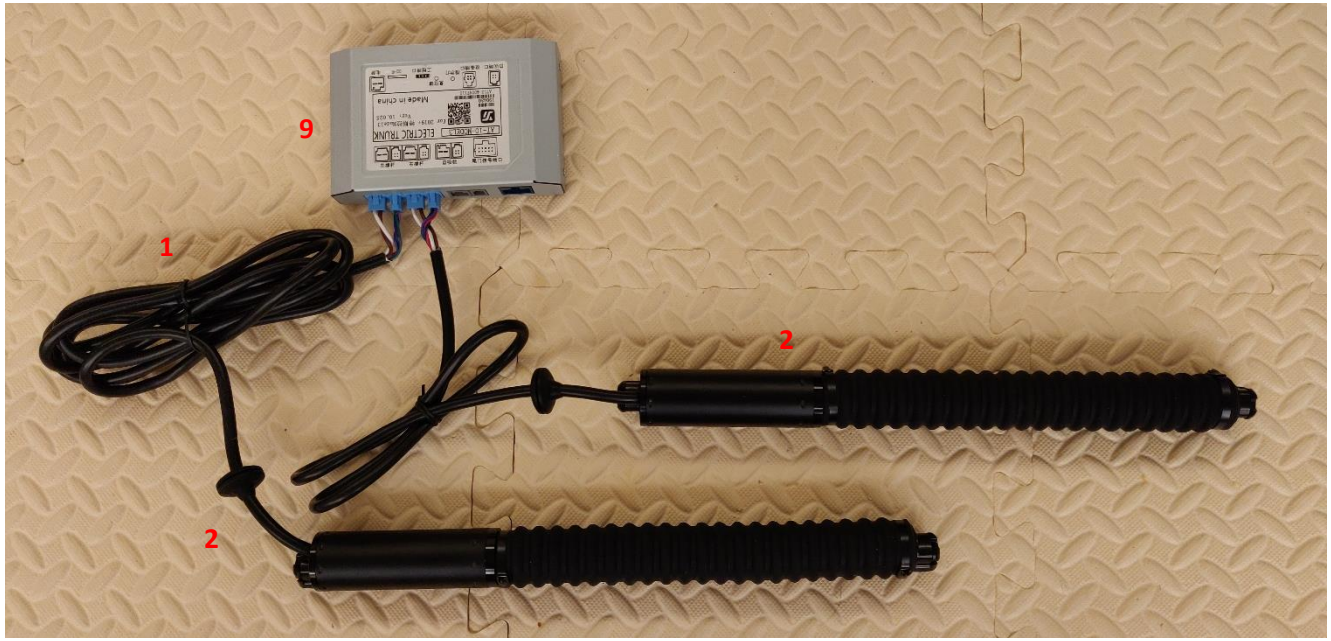



To
Driver
Seat
8
10
6
9
4
Tap To
Green Wire
(Figure 5)
13


9
ELECTRIC TRUNK
Made in china
To
Ground
11
7
To 12V


9
ELECTRIC TRUNK
5
To CAN-H
Useless
To CAN-L


9
3


9
1
2
2

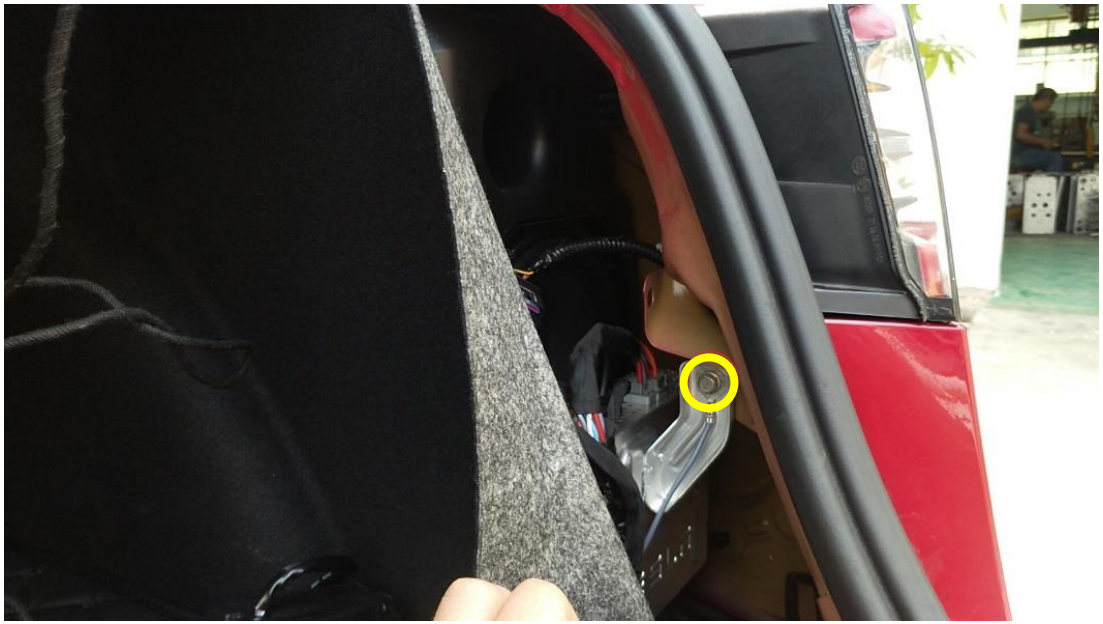


Figure 1 (Ground inside the trunk)

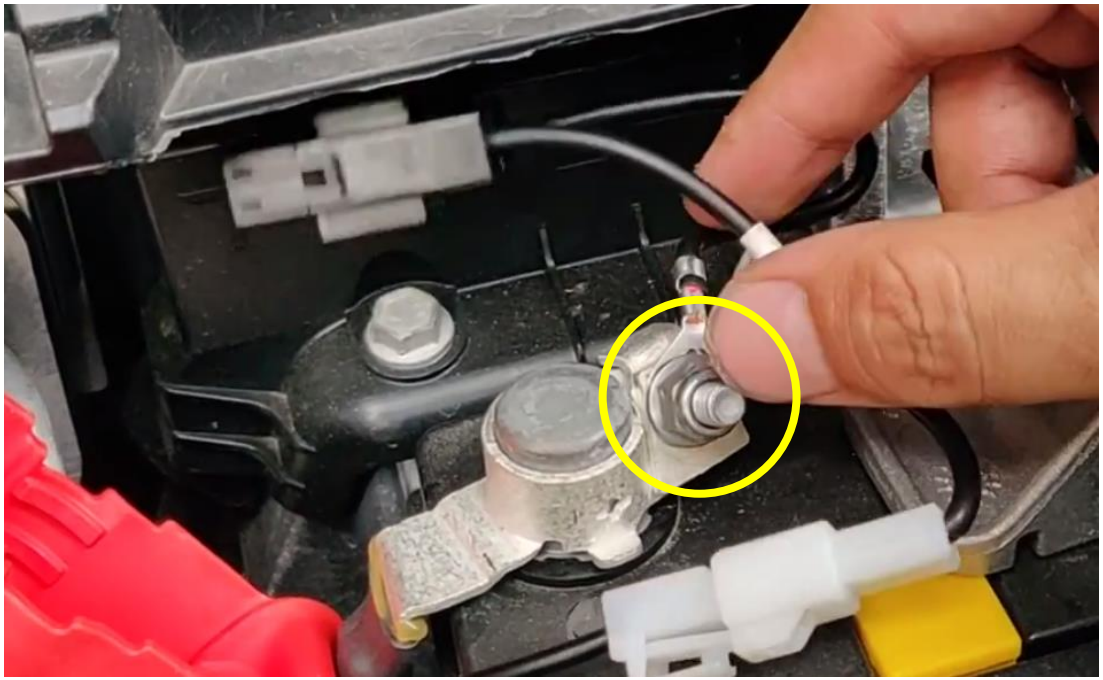


Figure 2 (12V+ in the Frunk, connect to 12V battery+)

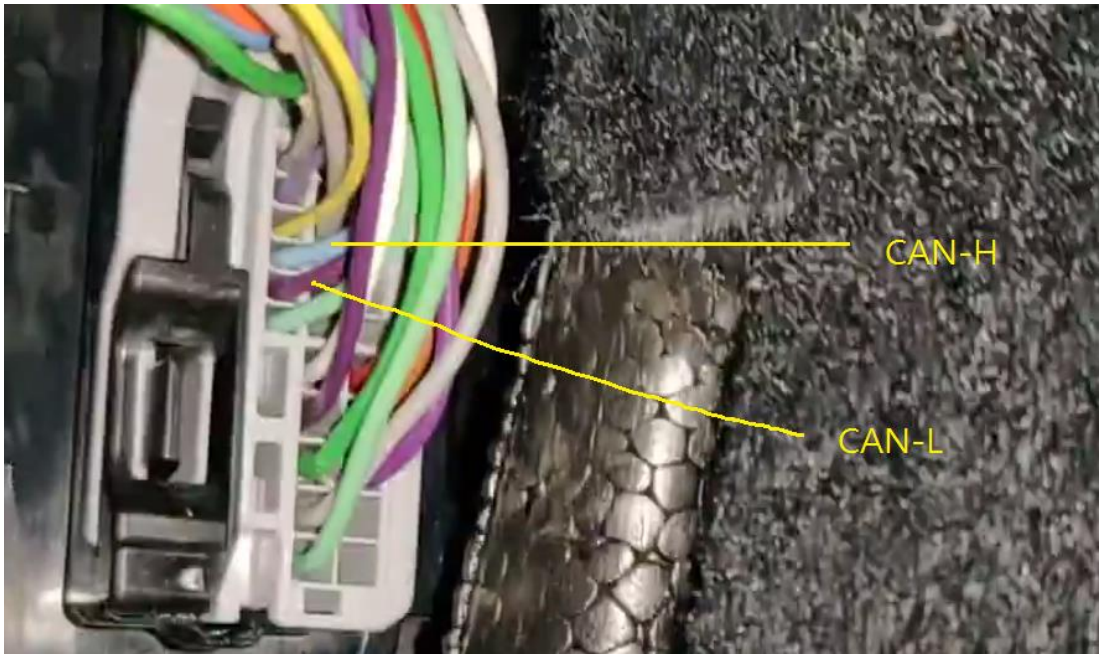


Figure 3 (CAN-H is light blue wire, CAN-L is purple wire*)


Figure 4 (Use the Y-connector to connect to the lock control)

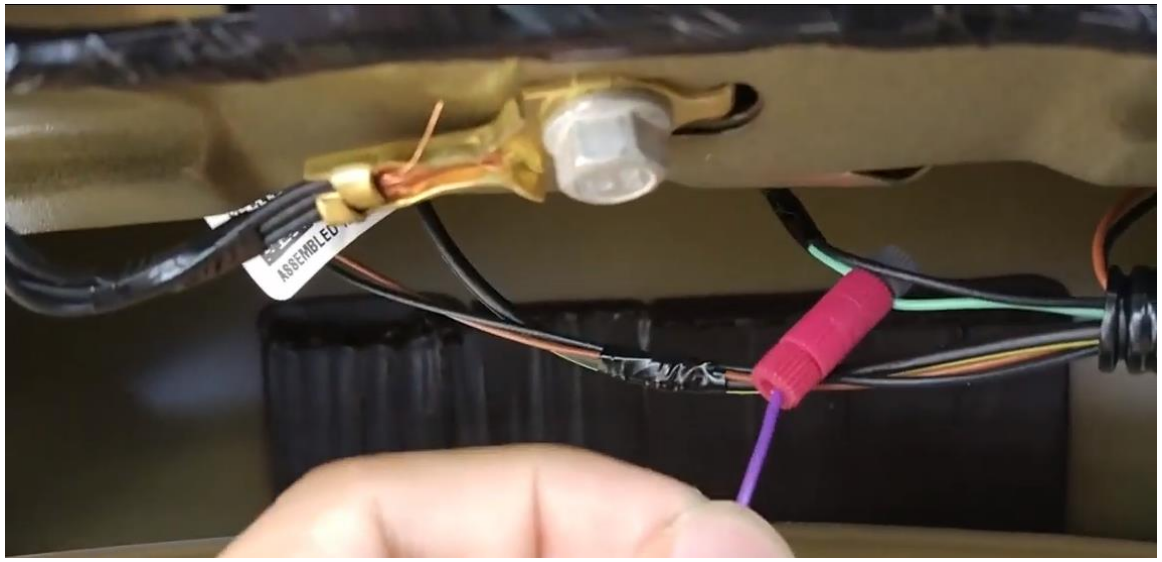


Figure 5 (Tap the purple wire into the green wire)

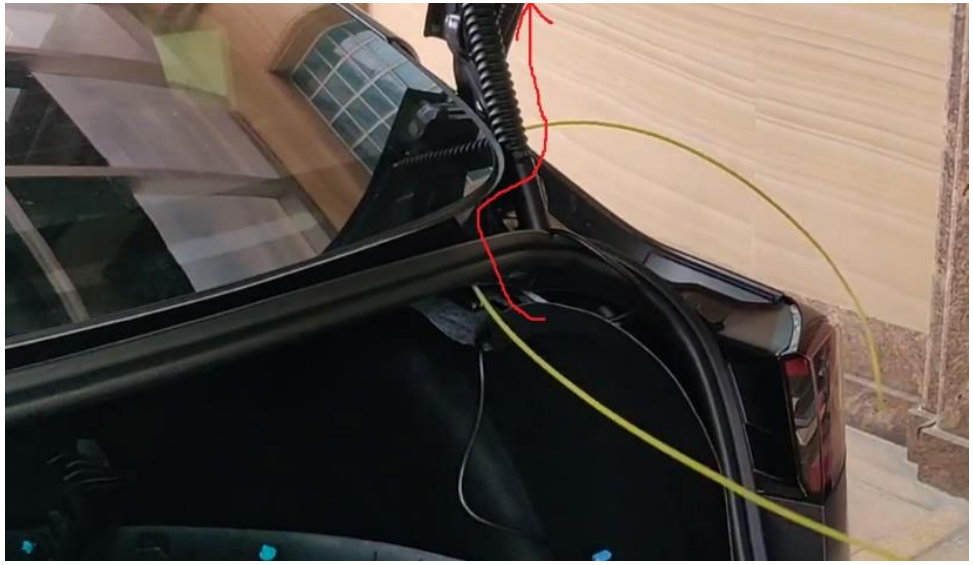
*The color of the wire might change, please compare your wire location with the figure

Installation

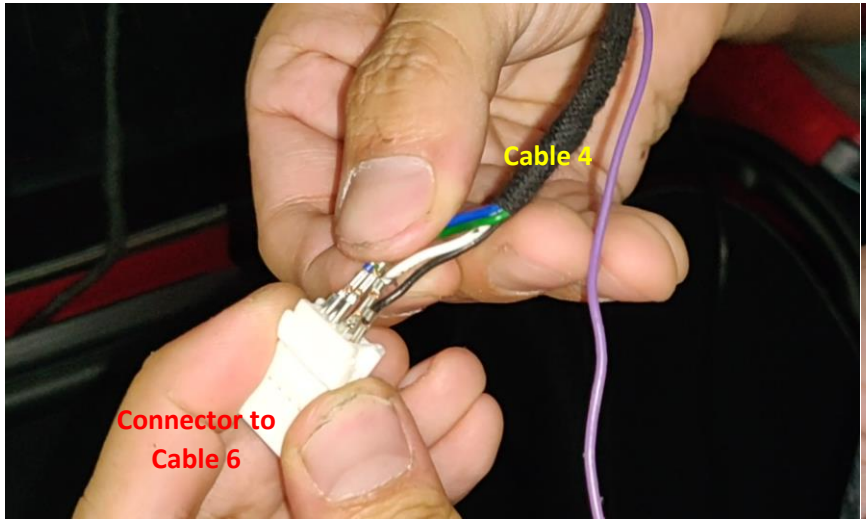
1. Open the liftgate and remove the liftgate trim piece.

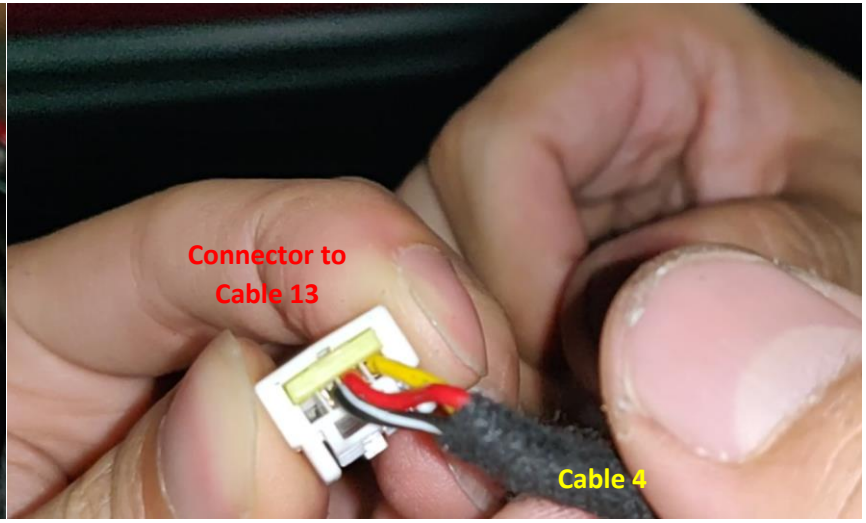
2. Remove the indicated trim pieces. (The right picture indicates the trim piece in the upper trunk.)

3. Run the liftgate wire (the purple wire, trunk button wire and Y-connector wire) from the trunk area to the liftgate door, using the rubber tube on the right side.

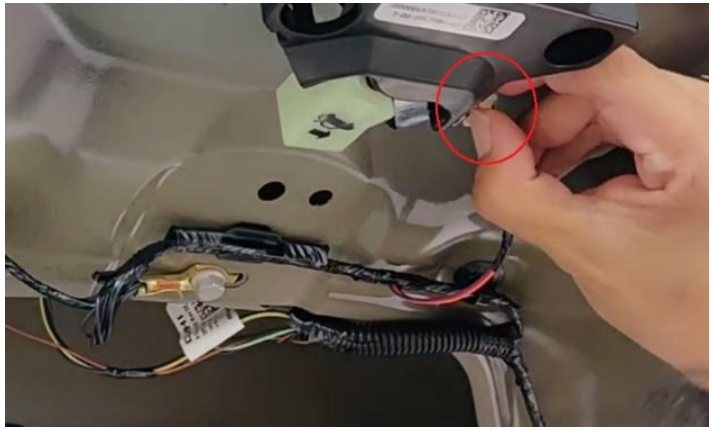


For the cables with connector disconnected, please do not connect them before running the wires. This can ease your installation time significantly.

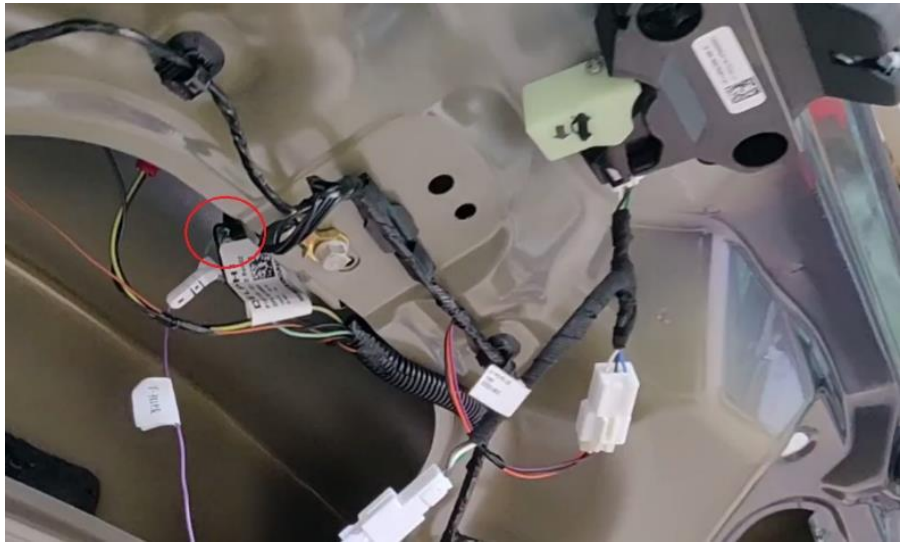




4. Disconnect the existing connector and connect the Y-connectors to the lock control. Connect the Y-Connectors to the main wire.



5. Tap the purple wire into the green wire that connect to the black connector.

6. Using a flathead screwdriver, pull out the existing struts. And install the new replacement struts.

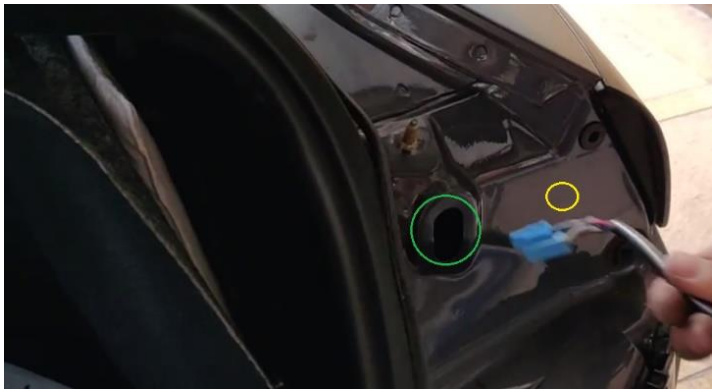

7. Running the pole wires back into the trunk area:

   (METHOD 1, MODERATE)

   This method involves removing the rear brake lights. First, remove the top screw on the brake light (circled in green), disconnect the brake light connector in the trunk (circled in yellow), and unscrew the two 8mm bolt (circled in red). After unscrewing, pull out the light. Do this on both sides.



   You can either run the pole wire to the big hole marked in green (we tested it can still fit the connector head, make sure you run the wire near the trunk side), or drill a small hole marked in yellow.



(METHOD 2, TIME CONSUMING)

The third method involves removing the rear bumper. This method is more labor intensive, and is recommended to be used if you also plan to install the foot sensor, because the foot sensor is placed inside the bumper. There's a detail video on removing the bumper in this link: https://www.youtube.com/watch?v=Oi2HkHD0Jqg

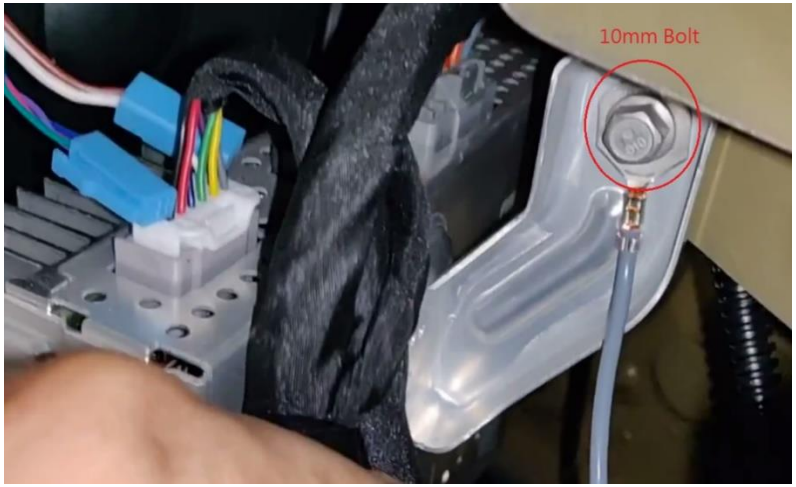
To remove the bumper, start by removing the tail lights by following method 2. After removing the tail lights, remove the 3 clips on both side behind the wheels, as indicated.

(On both side), there's one torx screw to remove behind the wheel, pull out the cover behind the wheel and unscrew the screw, make sure you don't lose the metal clip that hold the screw.

Now there are more 10mm bolts to remove.

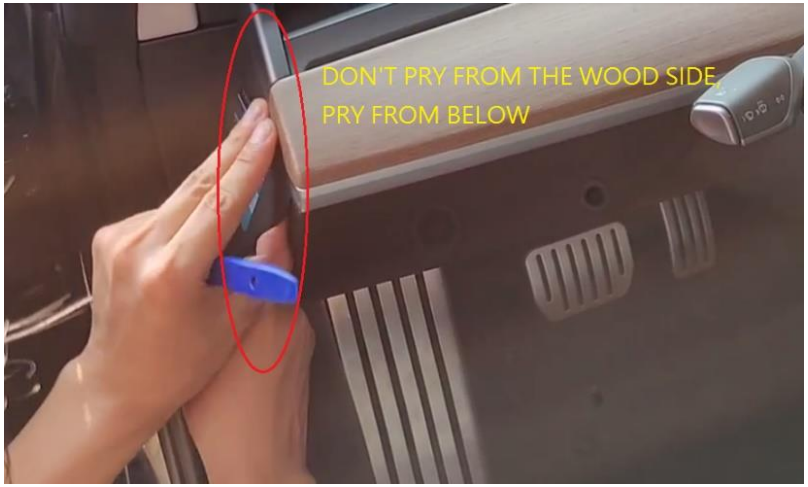
After removing the bolts, you can now remove the rear bumper. You can run the wire to the indicated location:

8. Connect the ground in the right trunk area (if you have foot sensor, also connect the ground of the foot sensor wire in the same spot)

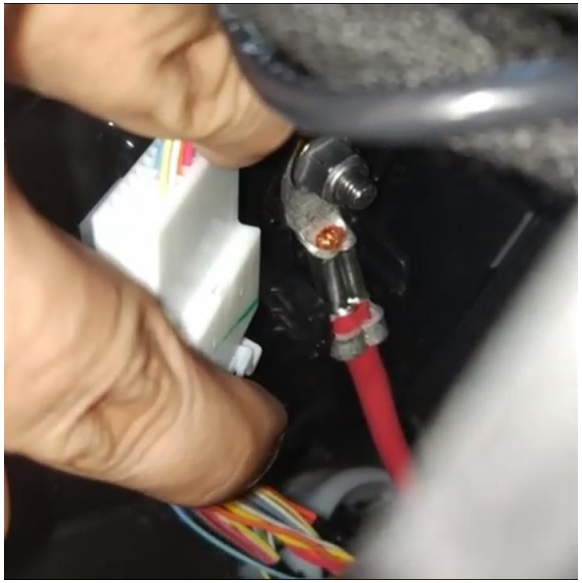


9. Run 12V Power Wire (#7), CAN Wires(#5) and Trunk Control Button (Driver Seat) Cable (#8) to the driver seat area.

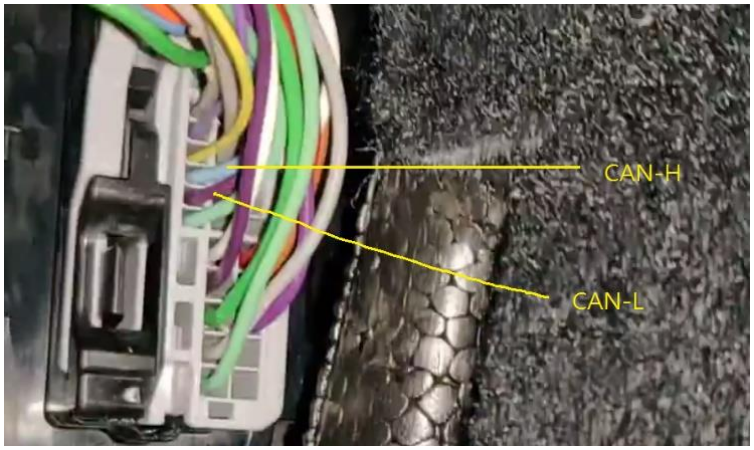
10.Remove the three plastic trims in the driver door side.



11. Connect the 12V to the screw with power.

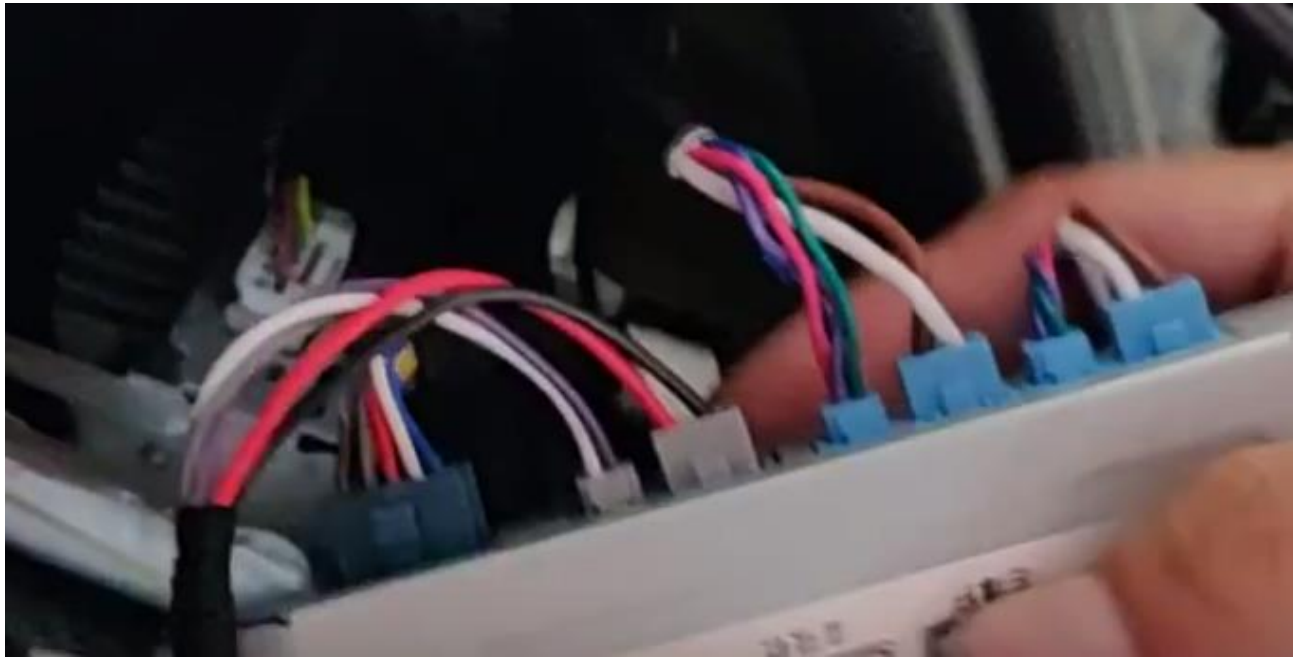


12. Now, locate the innermost connector, and tap the light blue wire (CAN-H) and the dark purple wire (CAN-L).



13. Now, replace the lock unit. Using Torx 45 screwdriver, unscrew the two screws and replace the lock unit.

14. Connect all the wires to the control box, and place the control box and the lock unit inside the trunk area



15. Drill a hole in the indicated spot (marked in red) to install the trunk close button. Connect the button.

16. Test run the system. Manually lift the door to your desired height, long press the added trunk button for 5 seconds until you hear a beep sound (This is also how you adjust the liftgate height). Now you can try to press the button again to close the trunk. Reinstall all the trim pieces and enjoy the system.

Foot Sensor (Optional)

Packing List

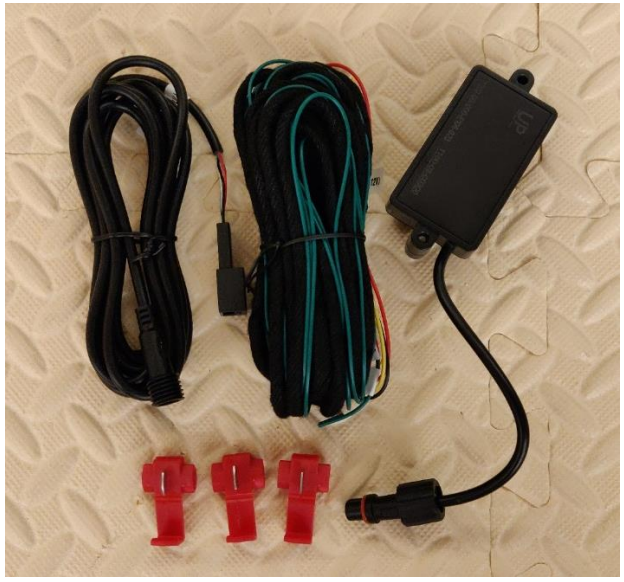
#	Part	Qty
1	Foot Sensor Connector	1
2	Power Cable (V1/3 only)	1

#	Part	Qty
3	Foot Sensor	1
4	18-22 AWG Wire Tap / Posi Tap	2-3

As we have updated our foot sensor several times, please refer to the below table for the accurate connection:

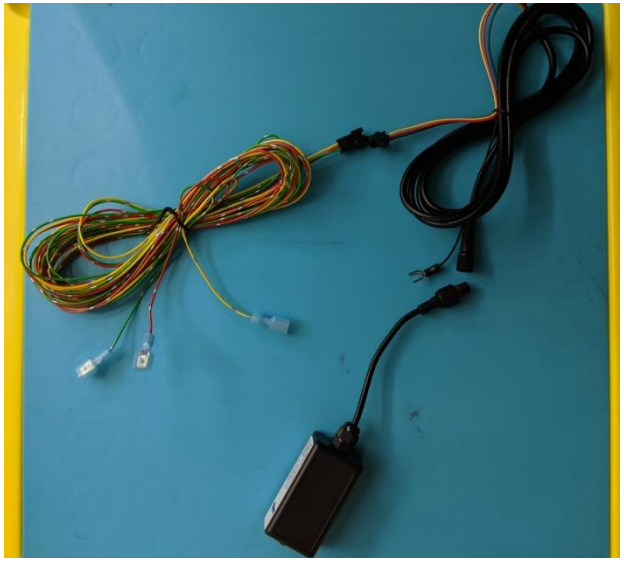
	Signal	12V	Ground	ACC
V1	**Green**	**Yellow**	**Black**	**Red**
V2		**Red**		**White**
V3		**Red**		**Yellow**

V1

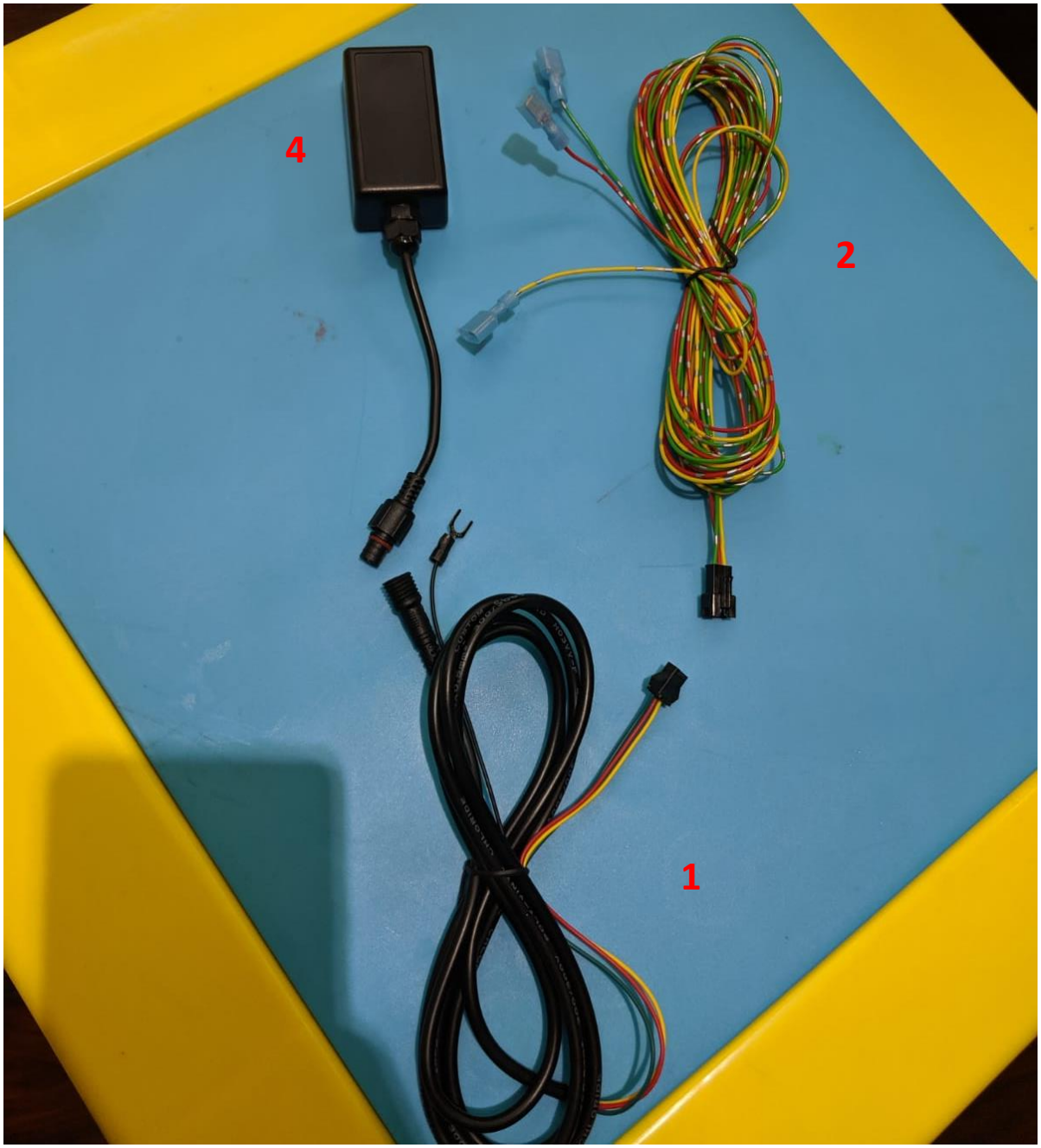


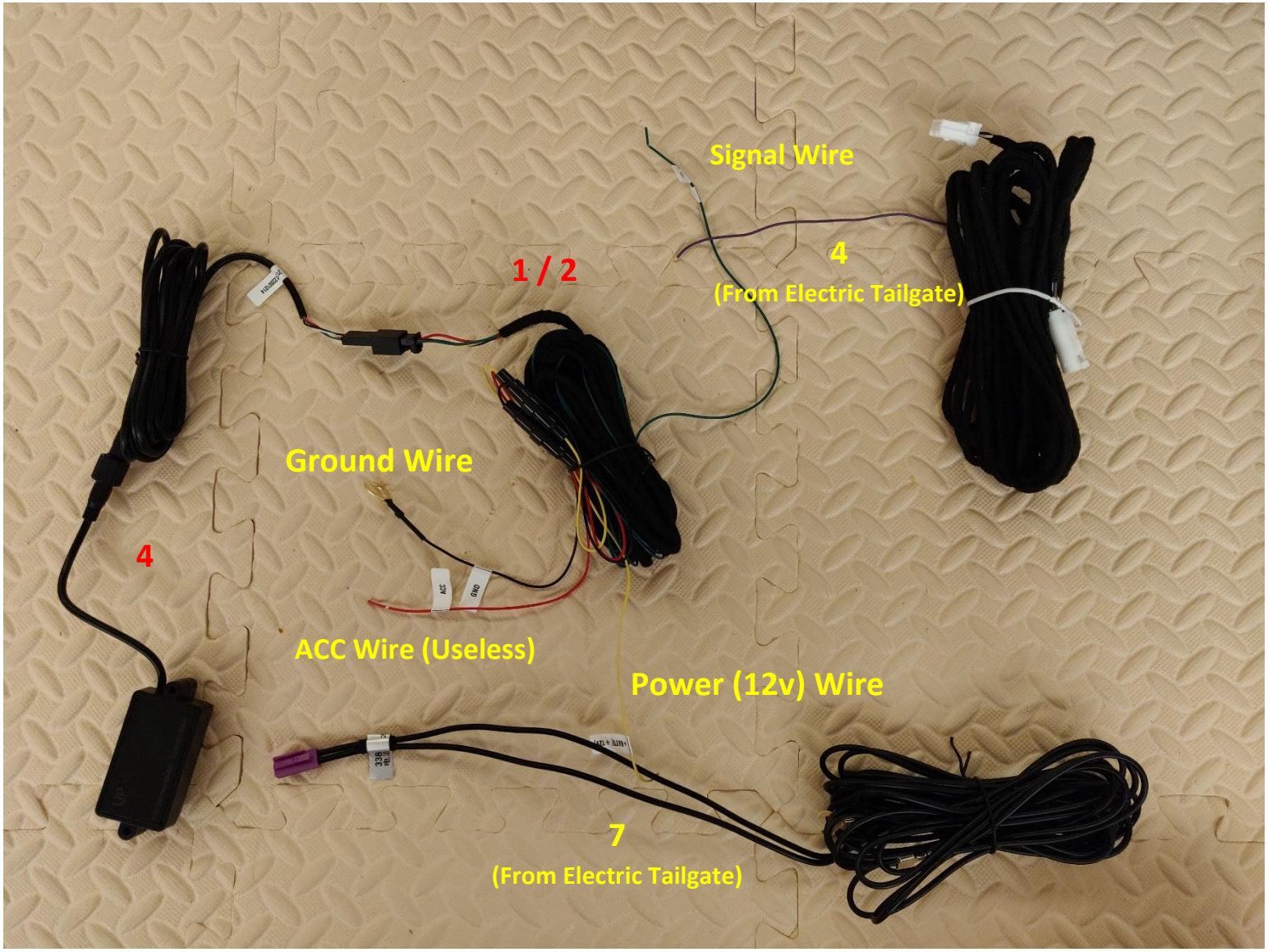
V2

V3



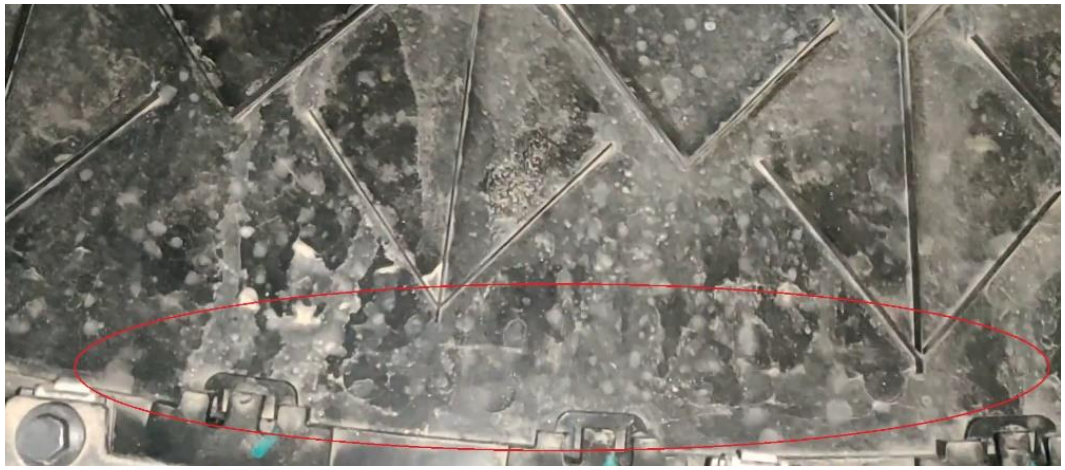
Wiring Details



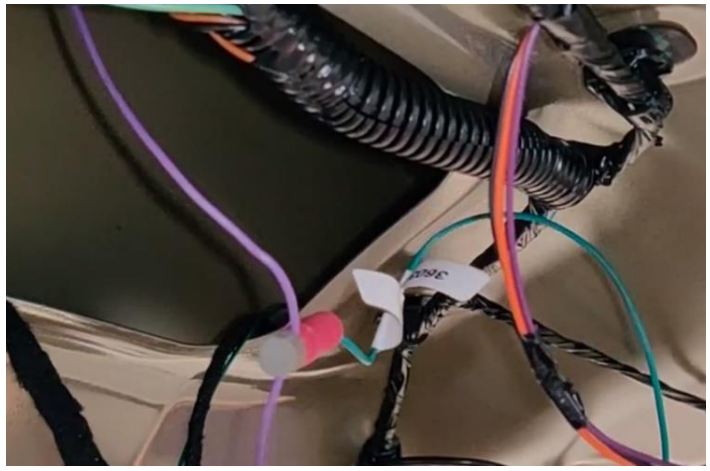

Signal Wire
4
(From Electric Tailgate)
1 / 2
Ground Wire
4
ACC Wire (Useless)
Power (12v) Wire
7
(From Electric Tailgate)

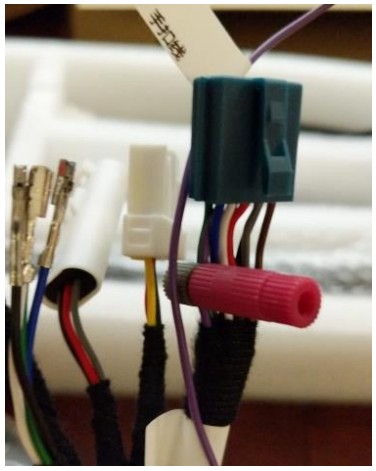
Installation

If you plan to install the foot sensor, using the double-sided tape, place the sensor (white side down) to your desired location inside the bumper (clean the surface). Please note, if you installed carbon fiber body kit, the foot sensor won't work as the carbon fiber would block the signal.



Connect the supplied wire to the sensor and run the wire back into the trunk area. Tap the signal wire to the purple wire of the electric tailgate to **either** 1 locations:





Connect to the power wire from the electric tailgate.

Connect the ground wire to the group location at the right-hand side of the trunk (near the amplifier if you are having Long Range / Performance Model 3).