

## **Instructions for the Powerlift for the trunk for the Model 3**

Thank you for purchasing our Powerlift for the trunk for Tesla Model 3. We hope that you are satisfied with the product!

Please read these instructions before installing the product.

If you have any doubt doing this after reading these instructions, we recommend that you have the Powerlift for the trunk for Tesla Model 3 installed by a local professional. If you need to contact us, please use the information on our website, [www.tesland.com](http://www.tesland.com)

### **Precautions and general notes.**

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Tesland.com does not take any responsibilities if during the installations anything goes wrong. Sometimes some clips may break, they can be easily purchased and replaced.

Tesland.com can never be held responsible for replacement of any parts which will break during the installation, even when following these guidelines.

To use these instructions, we recommend that you will have a look online at [www.tesland.com](http://www.tesland.com). There you will find these instructions with many pictures and in the near future a video of the installation as well. Please watch these thoroughly, this helps a lot when installing the Powerlift for the trunk for Tesla Model 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 liftgate for proper operation and function of lights before installing this product. Improper opening or closing of the liftgate may interfere with the functionality of the Power Liftgate 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 of the buttons

	Tesla App	Key Fob (if purchased)	Trunk Button	Added Driver Seat Button	Touch Screen
<b>Open</b>	Yes	Yes	Not Applicable	Yes	Yes
<b>Close</b>	Yes	Yes	Yes	Yes	Yes

### Height Setting

To set the height, set the tailgate manual to your desired height. Press and hold the new trunk button for about 5 seconds, until you hear a beep (Make sure the buzzer is connected). This is now the new height to which the tailgate will open

### 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.

### Tools needed for the installation



### 1 : Pre-installation check required!



Due to the large tolerance deviation of the car body to trunk lid assembly, you must check the width of the gaps between the roof glass and the tailgate before installing this power lift kit. The deviation between the left and right sides must be less than or equal to 4.5mm, otherwise this kit can't be installed. Example, in the figures above, the left-side gap is 1.5mm, the right-side gap is 6mm, and the deviation is 4.5mm. The struts can be installed.

### 2. Disassembly of trunk interior panel

Open the tailgate and remove the tailgate trim panel. It is sufficient to just open the right side, but removing the whole trim panel will make work easier. If any clips break, get some new ones.



### 3 : Disassembly of trunk interior panels



#### 4 : Disassembly of trunk interior

The lower part can just be pulled up. Then pull the carpet on the left and right sides inboard, and remove the cable from the trunk flood lights.

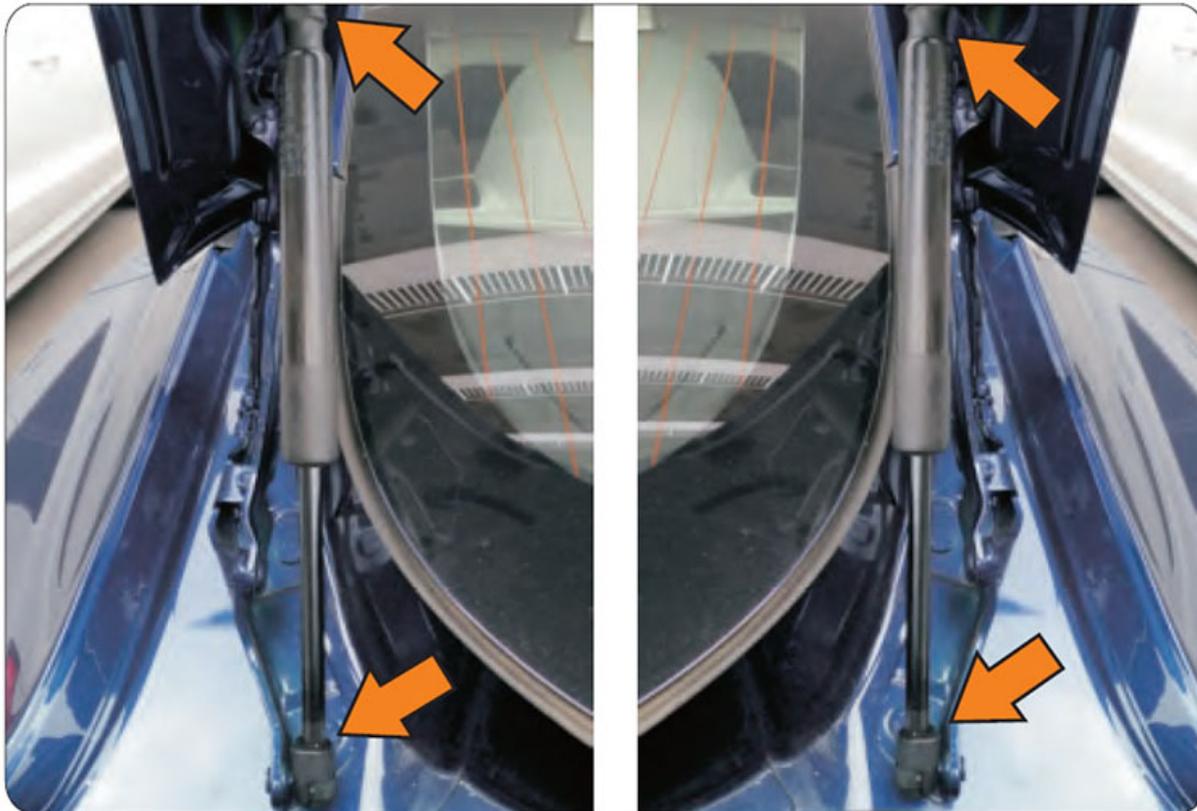


#### 5 : Removal of the tail light plug



Remove the decorative screws on the outside of the taillights. Pull out the nut and taillight plug on the inside of the taillight. (Use the same method on both sides)

#### 6 : Removal of the original trunk lift struts



Use a flat-blade screwdriver to pry open the ball retainer clips and remove the original left and right struts. NOTE-Be very careful to protect the glass near the strut as you remove each ball joint.

#### 7. Installing the Power Lift Struts



**Warning:**When removing the original strut and installing the power strut, you must use a towel to protect the glass to avoid breaking the glass.

Remove the buckle of the trunk trim panel (as indicated by the red arrow) and then pluck the trim panels on the left and right sides.

#### 8 : Wire route for strut motor



Route the strut motor wire down under the plastic trim, as shown by the arrow.

**9 : Power Strut wire path**



Remove the taillight assembly, then thread the strut motor wire down thru the taillight area to the inside of the rear bumper where it will then route into the car cabin thru an existing rubber grommet.

**10: Power Strut wire path cont.**



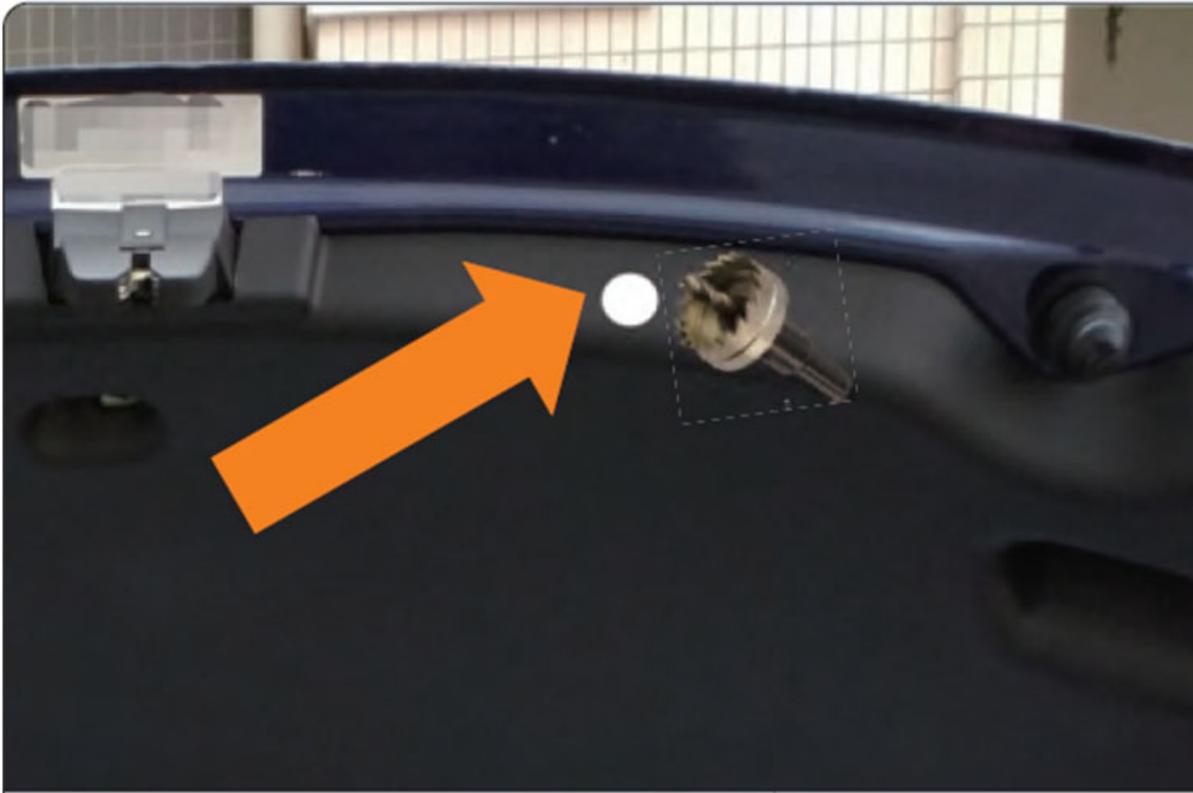
Cut a small hole in the original car's rubber gromit in this bumper area and pass the motor wire from the taillight area into the car. This will prevent any water from flowing into the car from the taillight area. (Use the same method on the left and right sides.)

**11: Install new powered soft-close mechanism.**



Remove the original car lock block and install our soft-close lock block (see figure above). Note: Mark the center position of the original car lock block loop before installation so that the lid lock will be aligned with this new lock block.

**12: Install new trunk “close” button**



Position the new button as shown above, using the supplied 20mm drill, install the tailgate “close” button into the trunk lid plastic panel.

**13 Pass the wire to the tube**



Pass the tailgate button wire through the tube (passing it from bottom to top). If you do not want to pass the tailgate button wire through the tube, you can install the tailgate button on the right side trunk trim.  
**14. Tailgate signal plug location**



Put the rear seat down, the plug is under the trim as shown in the picture.

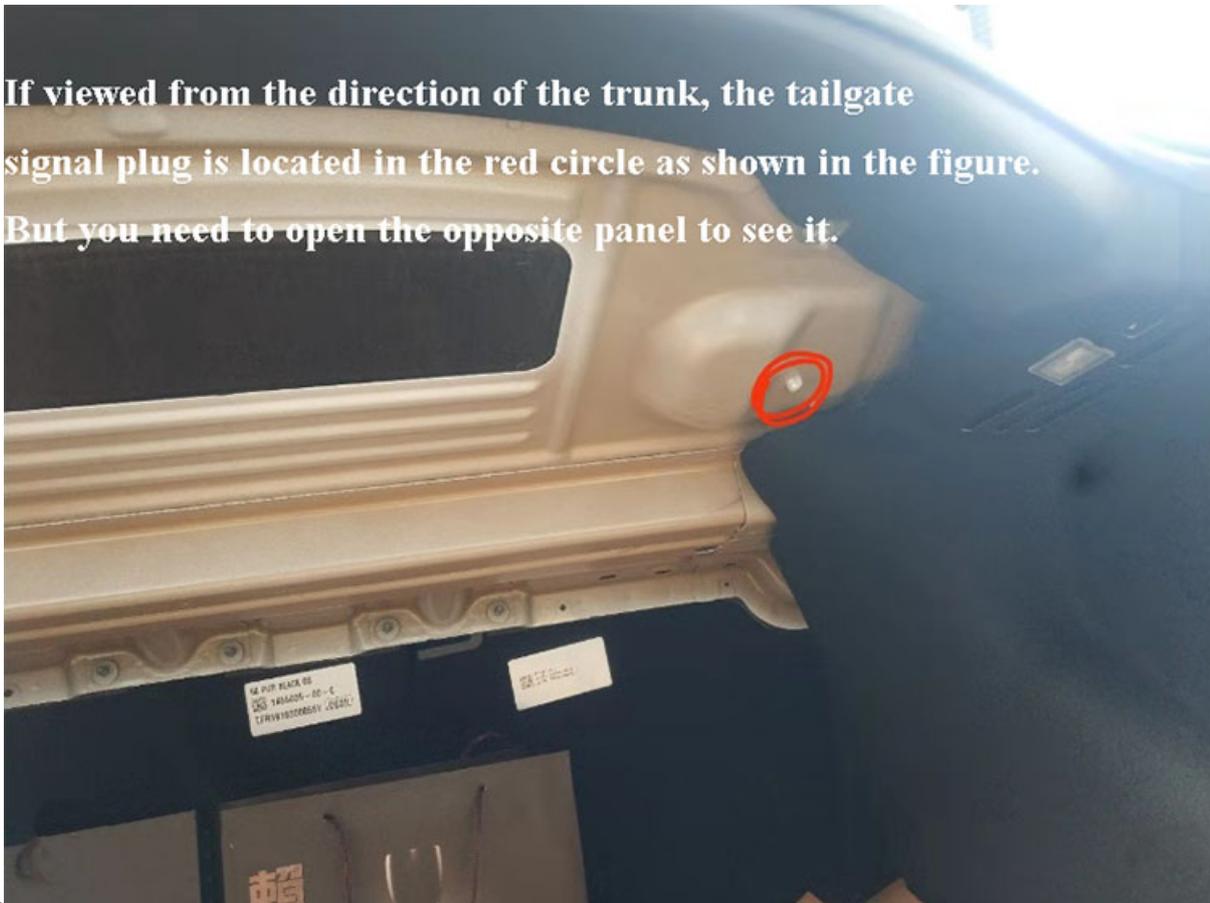
#### 15. Tailgate signal plug location



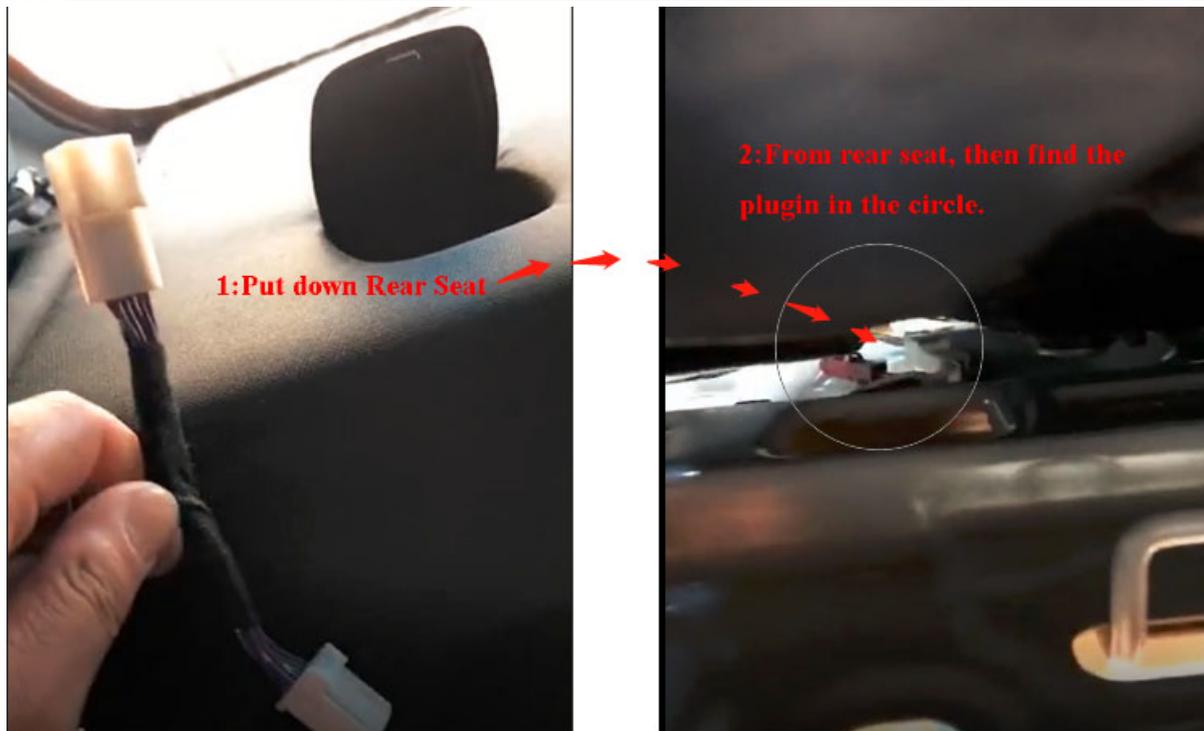
Put the seat down, remove both the left and right side 2 trims as shown. (Remember do the same thing on the right side).

That the three panels are required to be removed to lift up the rear flat panel to reach the signal wire, which is right next to the rear passenger speaker. The top longer panel (where the side airbag is) was difficult to remove due to its method of attachment. If you look from inside the trunk, you'll see the white plastic clip next to the speaker that the wire is attached to and it can be unlatched and pushed up so it's easier to reach from the rear passenger

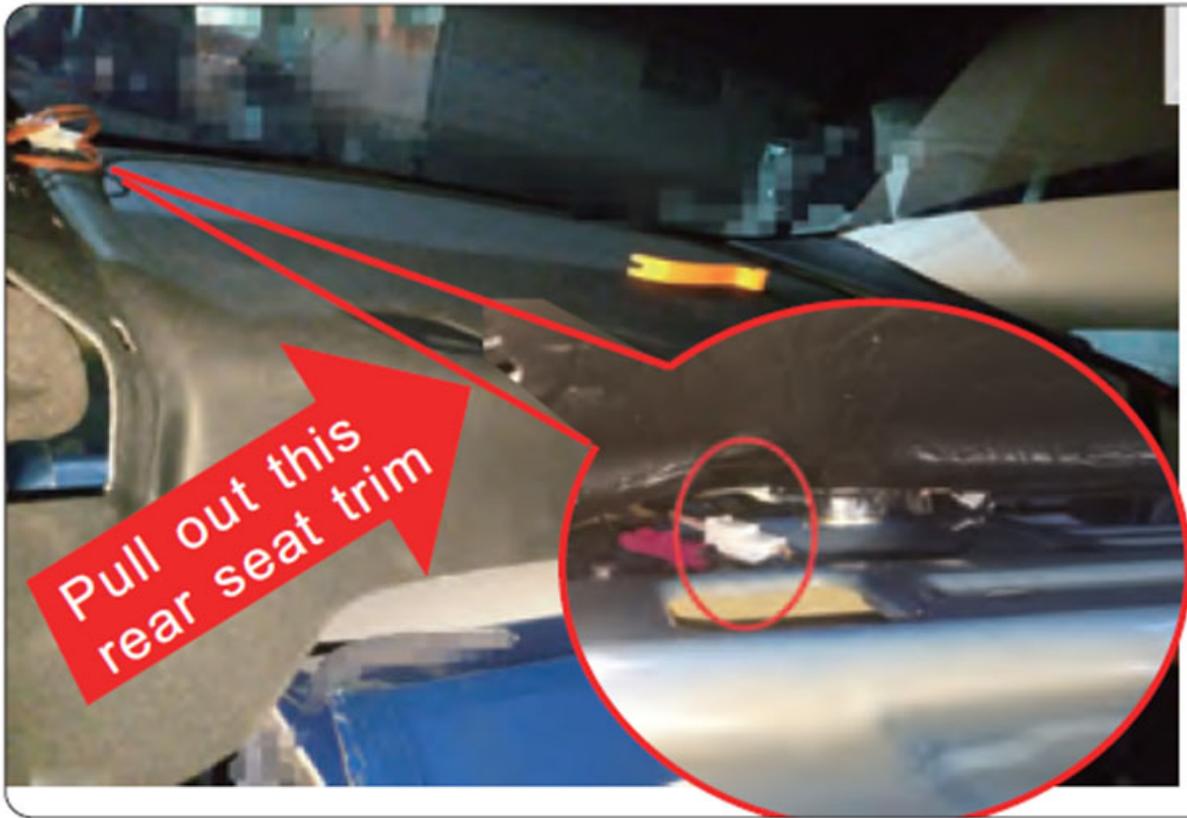
If viewed from the direction of the trunk, the tailgate signal plug is located in the red circle as shown in the figure. But you need to open the opposite panel to see it.



seat.



16. Tailgate signal plug location



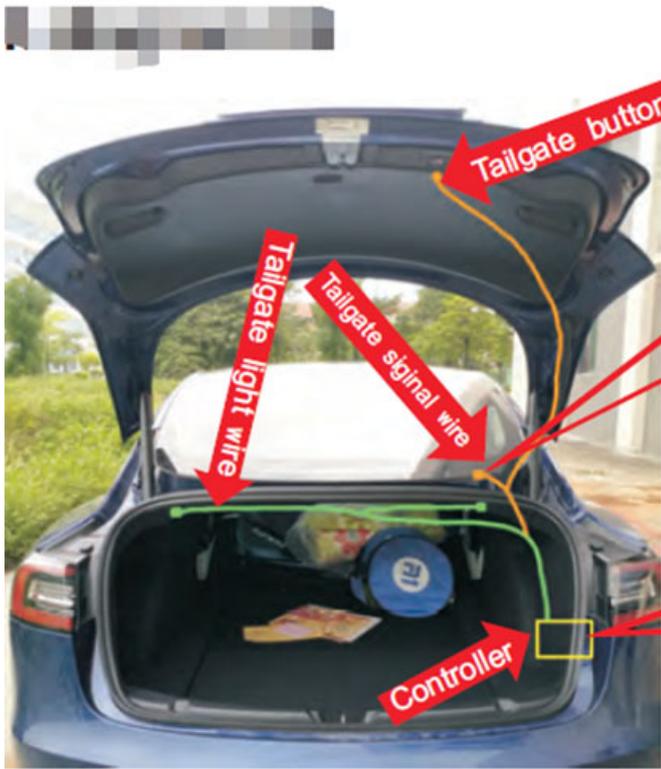
Pull out this rear seat trim, you will find the related mating plug.  
**17. Wire path diagram 01**



18.Wire path diagram 02



19.Wire path diagram 03



Under the trim of rear seat



Put the controller under the right side trunk trim

20. Wire path diagram 04



21. Wire path diagram 05



Put control box behind the right side interior lining of the trunk



GND screw location under the tail light



Power wire B+ front passenger seat under interior lining

### ***Optional tailgate button install position***



You can install the power tailgate button here if you don't want to wire the tailgate button through the tube.

#### **height adjustment**

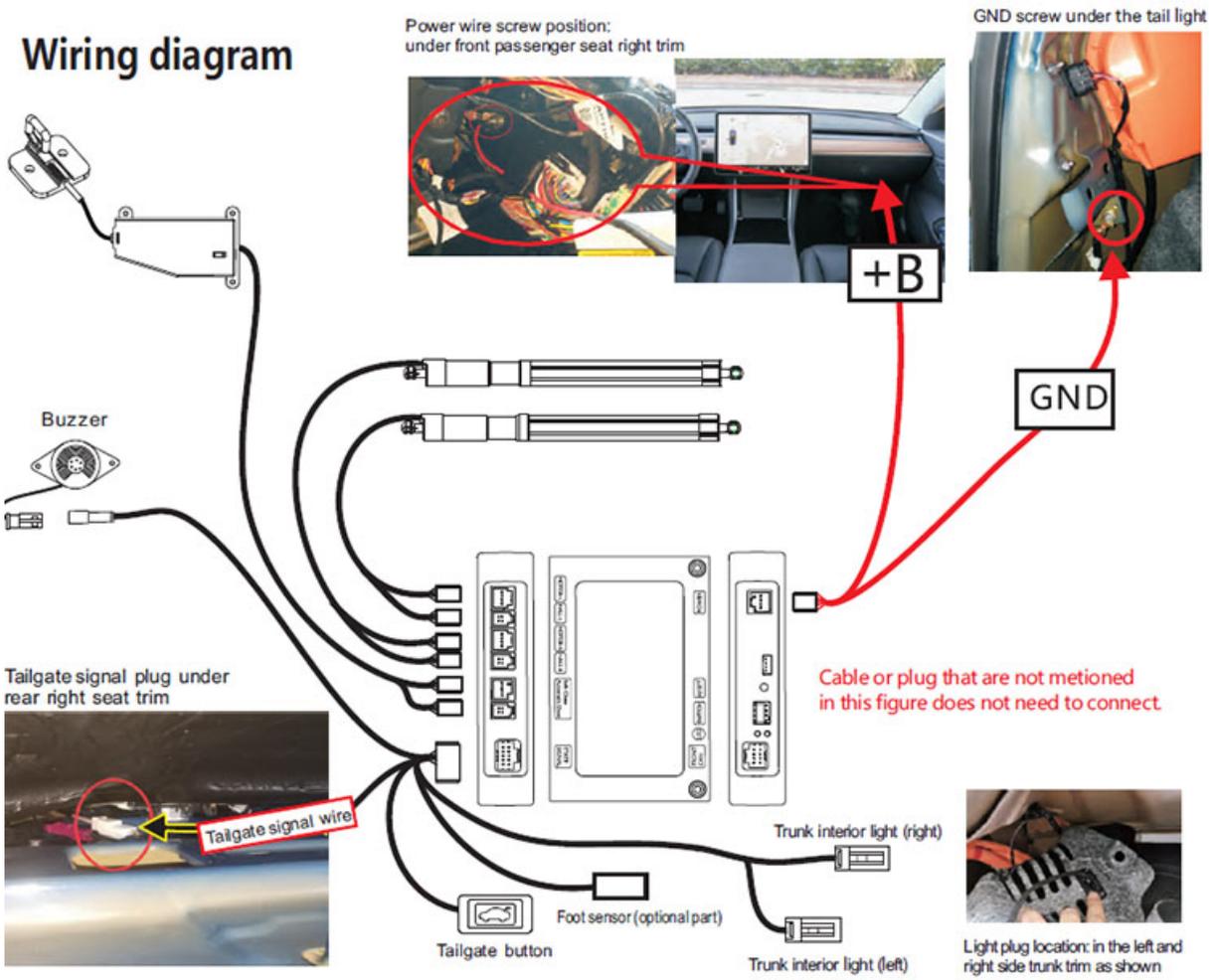
Adjust the tailgate to the appropriate height, press and hold the tailgate button for 5 seconds, and hear a long beep that indicates the height setting is successful.

#### **speed adjustment**

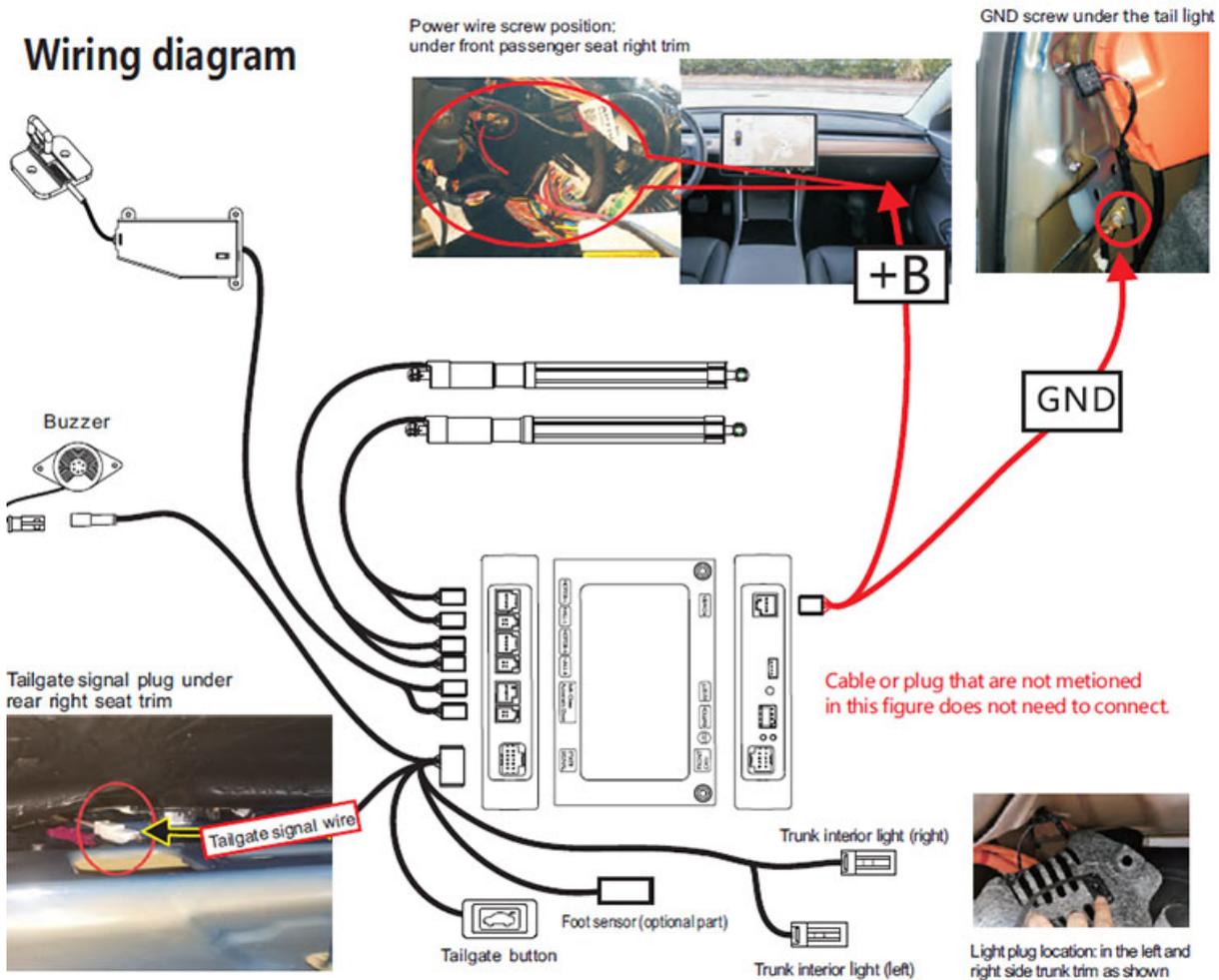
The tailgate switch speed is divided into 5 speeds, the default is 4, the lowest is 2, and the fastest is 6. Press and hold the tailgate button. When the buzzer sounds 2 consecutive beeps, it means that the speed setting 2 is successful. When the buzzer is heard for 3 consecutive beeps, the speed setting 3 is successful, and so on.

After the installation is completed, the controller needs to be matched when the power is plugged in: the electric tailgate is adjusted to the highest position, and the tail button is pressed for 5 seconds. After a long beep, the button is released, indicating that the matching operation is completed. (If the power off requires a rematch operation).

# Wiring diagram



## Wiring diagram



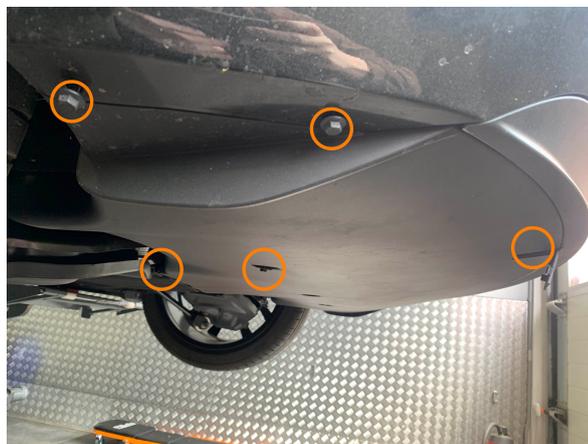
### Installation of foot sensor:

If you have under the bumper the cover for the tow hook, you are lucky. You can release this cover by opening the 2 plastic screws. This give access to the area behind the bumper to install the footsensor.

If not you need to remove the complete bumper. To do this behind the rear wheels on both sides removed 3 clips.



Then under the car remove ten 10mm bolts (2 behind flaps). Here are pictured the 5 on 1 side.



Two 10mm bolts which are located under the tail lights they need to be removed. Also on the forward side on the inside of the bumper there is a small torx screw hidden behind the trim. Remove these two as well. Then remove the bumper with 2 people. Start with pulling the forward sides outward.



The bumper is hold in position with clips. When lowering the bumper you will see a plug for the bumper sensor. If you will not pull the bumper away from the car, leave this one in.

Install the kicksensor on the inside of the bumper. Drill to small holes in the cover behind the bumper and install the sensor with the 2 screws. The white pad must be facing down. That is the real sensor. Route the cable to the inside of the car via the whole in the rear of the car. There is a blue plug which can be removed. Make a hole in this blue plug to lead the cable in, and use some silicon to close it off.

Now connect the ground to the same position of the powerlift. Connect the yellow + cable with the fuse to the power cable of the powerlift. Install the green sensor cable to the purple cable of lift gate harness.

Install everything back together.

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