

Tesla Model S Power Frunk Installation Instruction

Pre-installation precautions :

Disclaimer:

Any problems and damage caused by improper installation and improper use are not covered by our company's warranty.

1. After the installation is completed, please do not close the frunk, you must first perform the following test step: Before closing the frunk, use a screwdriver to close the lock, and then press the front button to confirm if the lock can be unlocked. (The above step need to performed twice and confirmed clearly). If you can not unlock the lock please check the wire and the plug are connected and plugged in. Meanwhile, do not close the frunk until you pass the test step.
2. In unlock status, push the front cover to the highest position, click the frunk button, the frunk will close automatically, and the frunk will be locked by the electric suction lock. (If the electric suction does not lock well at this time, please push the front cover to close it by hand.)
3. After the frunk is closed, double-click the car key or press the central control screen frunk button, the frunk will be opened, after the frunk opened completely, push the front cover to your ideal height, long-press the frunk button to set the frunk height, then click the button to close the frunk, and the electric suction lock will automatically lock the frunk, to complete the frunk height set.



Power trunk installation Video QR Code

1 Removal of the front trim panel



Open the trunk and take the trunk waterproof seal first. Next, remove the panel as shown.

2 Removal of the front trim panel



Remove the remaining trims in order, firstly remove the two side panel rubber screws, then remove 2 side trim, after removing the trim.

3 Removal of the front trim panel



Remove the lock block trim and remove the front box flannel trim.

4 Remove air conditioning cover



First, remove the drain tube on both sides of the air conditioner cover (remember to plug it back when restoring). The buckles on the left and right sides of the air conditioner cover can be removed after pulling the buckles (as shown)

5 Remove the panel board and take off the front trunk button



Please remove the air conditioning intake pipe and do it carefully.

6 Remove front trunk



Remove the front box, four screws on the left and right sides, and two screws on the inside.

7 Remove the panel board and take off the front trunk button



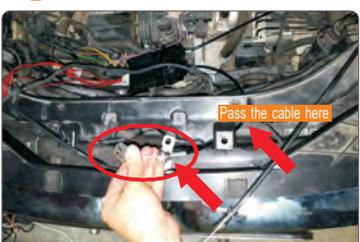
Use a screwdriver to lift the steel sheet back of the ball head and remove the support strut. Replace it to our electric struts. (The figure shows the installation process on the right side). Strut wire should be on the bottom.

8 Remove original strut install power strut



Mark the lock block installation position first, then remove the original car lock block plug and the pull rope. Use a wrench to loosen the lock block screws and remove the lock block.

9 Install electric suction lock



Passed the electric suction lock with the bracket part out from the bottom to another side.

10 Install electric suction lock



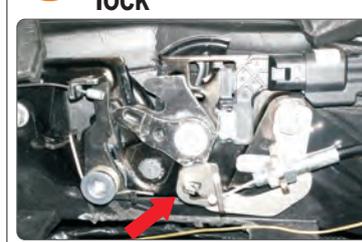
Remove the original car lock block spring.

11 Install electric suction lock



Mount the bracket hook of the electric suction lock to the original car lock hook hole, install the bracket to the screw on the right side as shown.

12 Install electric suction lock



Hang the square hole of the pull cord into the hook (position of the spring hook).

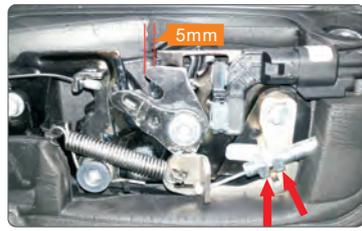
Tesla Model S Power Frunk Installation Instruction

13 Install electric suction lock



Hang our spring to the original spring position.

14 Install electric suction lock



After finish the installation, please try to make the electric suction work several times. If the lock hook does not hang the door lock ring and fails to suck the door down or the door lock ring is closed and hits the lock hook. Please adjust the two nuts shown in the figure, make the hook move about 5mm left from central, to make the latch can go into the hook easily when closing.

15 Install electric suction lock



The electric suction lock must be affixed under the original car lock block (behind the front bumper) and secured with a tie to prevent water ingress.

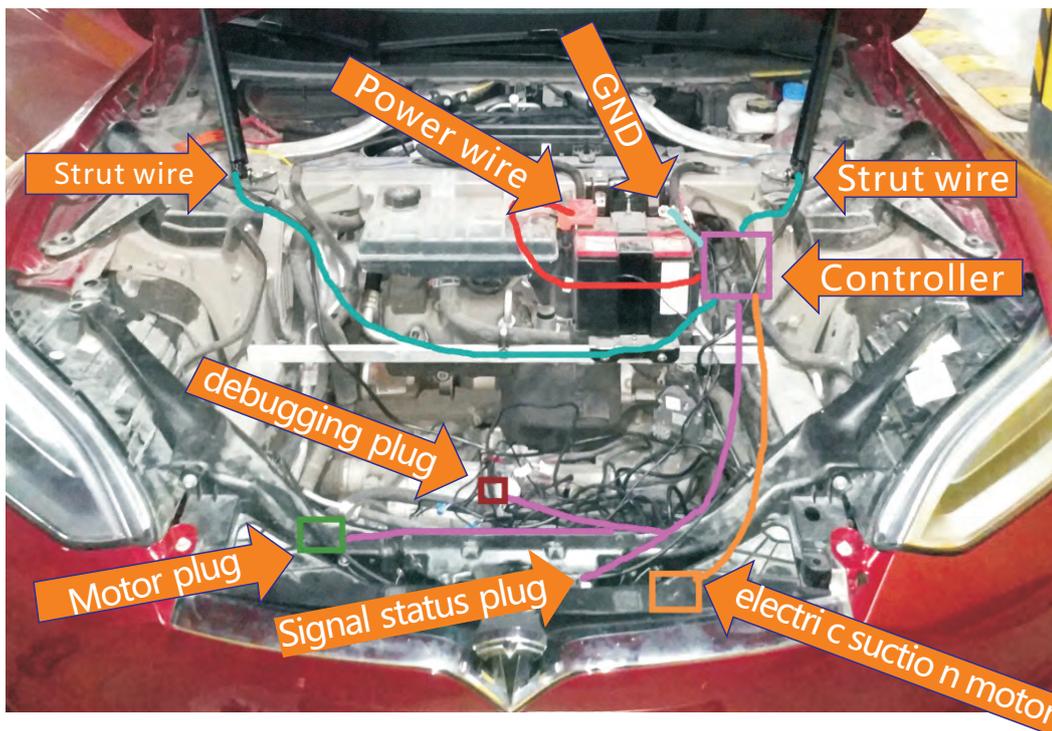
16 Install electric suction lock



Take the emergency pull cord of the actuator of the electric suction lock to the vicinity of the through-hole at the bottom of the right side of the figure, and fasten it with the cable tie to keep the tension pull ring in the loose reset status.

17

Wiring diagram 01



18 Wiring diagram 02.

Note: After all the plugs of the control box are plugged in, Put the control box and buzzer in our anti-static bag, tie all the harness with a tie, and tie the mouth of the anti-static bag. Place it next to the battery as shown in the illustration.



19 Wiring diagram 03



Find the Motor plug



Motor IN wire connect red wire

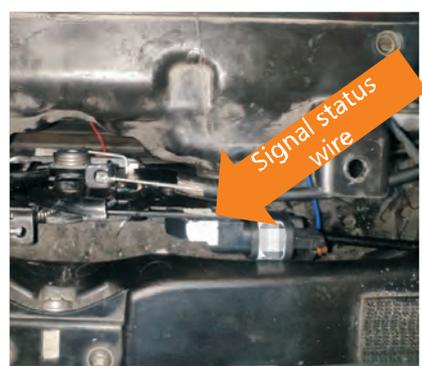
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Wiring diagram 04



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Wiring diagram 05



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Wiring diagram 06



Tesla Model S Power Frunk Installation Instruction

Electric tailgate strength adjustment method

Press and hold for 3 seconds, then press for another second to increase the strength of the electric tailgate a total of 5 intensity adjustment.



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 gears, the default is 4 gears, the lowest 2 gears, and the highest 6 gears. Press and hold the tailgate button. When the buzzer sounds 2 consecutive sounds, it means that the speed setting 2 is successful. When the buzzer is heard for 3 consecutive sounds, 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).

	Original front button	Key remote	Mobile APP control	Central control LCD screen control
Open the tailgate	Press once	Double press	Click on the frunk icon	Touch screen frunk button
Close the tailgate	Press once	Double press	Click on the frunk icon	Touch screen frunk button

Note: The installation instructions may differ slightly from the actual operation. If there are any differences, please follow the actual situation or contact us.

Frunk strength adjustment:

Adjustment When the door cannot be opened or the door cannot be closed: Adjust position: The small black button of the control box (decoder).

Tuning method:

First, the door can not be opened (the door opening is not good):

1. Press and hold the small black point switch on the control box to adjust the strength of the opening tailgate. Clicking the black dot 3 seconds, Then, Press and hold the switch, the buzzer will beep 1 to 5 times, 1 sound is the smallest strength, 5 sound is the strongest, and the factory default is 1 sound;

Second, the door can not be closed (the door closing strength is not good):

1. First, use a screwdriver turn the tailgate lock to close status. (equivalent to closing the door, you must make the tailgate lock in lock status when adjusting the closing force), and then press and hold the small black point switch on the control box to adjust the closing strength. The strength, long press the switch buzzer will ring from 1 to 5 times, 1 sound is the smallest, 5 sound is the strongest, the factory default 1 sound, generally adjusted to 3 sounds, test the closing strength, if still feel not good, try other strength;

Tailgate speed adjustment:

The speed is divided into 5 levels, and the default is 4 level. The lowest 2 level, the highest 6 level. Press and hold the tailgate button over 5 seconds. When you hear 2 beeps, the speed of the 2nd level is set successfully. Press and hold the tailgate button. When you hear 3 beeps, the speed of the 3rd level is set successfully. Press and hold the tailgate button. When you hear 4 beeps, the speed of the 4th level is set successfully. And so on.

Tesla Model S Power Frunk Installation Instruction

Wiring diagram



1. control box
2. Strut-L
3. Sturt-R
4. Soft-close electric suction motor
5. Spring
6. Battery wire 12V
7. GND
8. Buzzer
9. debugging plug
10. Strut power plug and Hall plug-L
11. Strut power plug and Hall plug-R
12. Cable tie and Double-sided tape
13. trunk plug not applicable in frunk
14. Lock bracket
15. steel wire
16. Emergency lock wire
17. Signal status plug
18. Motor IN wire (yellow wire)
19. Soft-close electric suction motor plug
20. Power fuse wire
21. Status signal plug
22. Buzzer plug
23. Light plug, useless in Model S

Wiring diagram

