

INTELLIGENT ELECTRIC TAILGATE

Installation instructions

2020+ Audi Q5L

Double-pole, upper electric suction lock



Basic function description of electric tailgate

The intelligent electric tailgate is an assembly device that can electrically complete the opening, closing and locking of the luggage compartment door. It can trigger the opening and closing of the luggage compartment door through the remote control vehicle key, the opening key at the vehicle luggage compartment or the central control key of the luggage compartment door in the cab, foot sensing switch, sound control switch, etc. It has the characteristics of anti pinch and anti-collision, self setting of height adjustment, speed control, abnormal fault detection, nondestructive installation and so on.

Multiple control modes



The product provides a variety of selectable operation modes, such as the original vehicle key, the additional button on the tailgate, the original vehicle button / additional button / unlock key on the main driver's seat, etc.

Intelligent anti pinch and anti-collision



During the lifting process, the tailgate will stop lifting or run in the opposite direction when encountering obstacles, so as to try to ensure that it will not cause harm to human body.

Support setting the door opening height



Users can set their own tailgate height by adding buttons according to their height or usage habits.

Realization of optional function



Realize kick sensing switch.

Car photo comparison

Front view of vehicle body

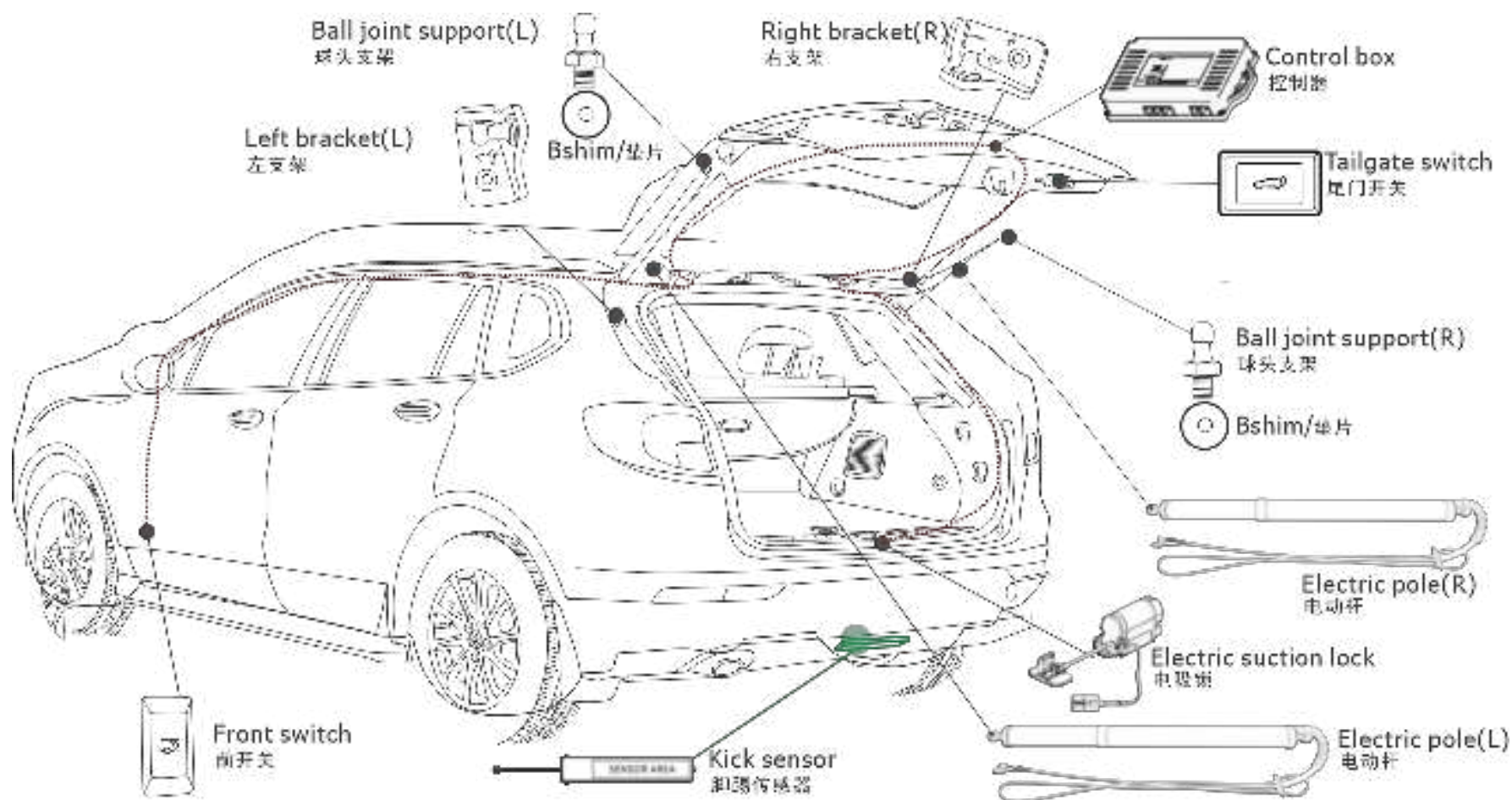


Rear view of vehicle body

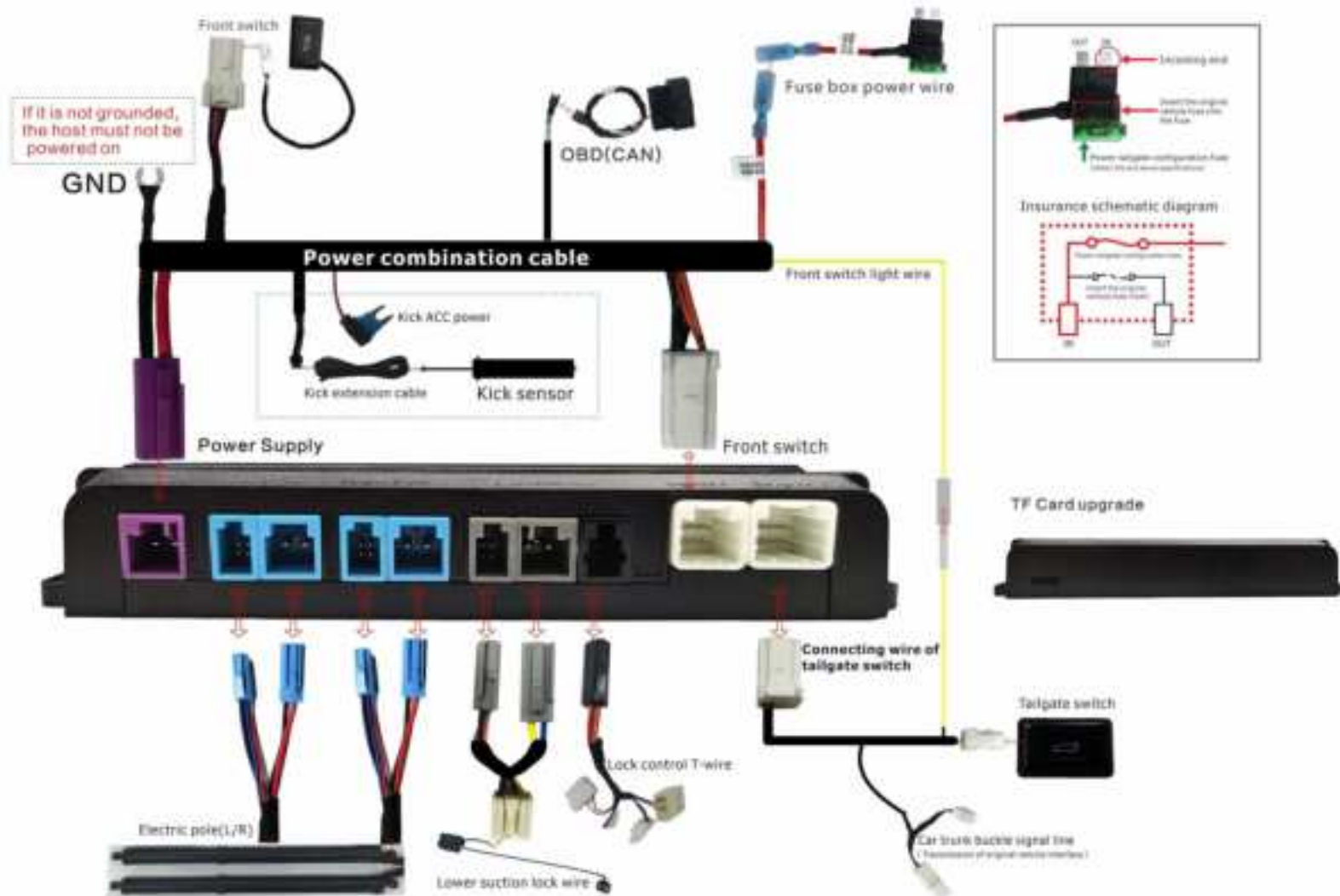


Brand : Audi Model : Q5L Year : 2020+

Installation diagram of product accessories



Product wiring diagram



P r e c a u t i o n s b e f o r e i n s t a l l a t i o n

1. In order to ensure the safety and normal use of the product, please hand it over to the professional staff selling the product for installation. Do not disassemble the machine without permission, so as to avoid machine damage and accidents.
2. Before loading, the first step is to consult the owner whether the tailgate has been modified or repaired, and inform the customer that it is possible to drill and route in the installation process, start the engine, check whether the vehicle instrument has fault code display, verify whether the door side switch, sunroof switch and remote key button in the vehicle are normal, check whether the internal and external surfaces of the vehicle are scratched, the size of the left and right gaps of the original tailgate and the flatness of high ground, This is a key parameter for reference and comparison after installing the electric tailgate. If there is any abnormality, please inform the customer in time.
3. Ensure that the car battery has enough power to ensure the normal operation of the electric tailgate. If the power is insufficient, please start the engine for a period of time to avoid affecting the normal operation of the electric tailgate and the start of the car.
4. Before disassembly and assembly, the installation personnel shall first remove the metal objects and other hard objects carried by them to prevent damage to the car interior in the process of disassembly and assembly.
5. During the installation process, pay attention to the use of masking paper and towels to protect the car interior from scratching. The removed car components should be placed properly. The sundries left during wiring and wiring should be handled in time and should not be left in the car. The joint must be insulated to prevent short circuit.
6. When installing the body bracket, if it is equipped with a special bracket, please replace the special bracket. Pay attention to distinguish the direction and do not install it reversely, otherwise the rod will fall off or the tailgate will not be closed in place, and even the paint surface of the original vehicle will be scratched (refer to the installation process for details).
7. The direction and position of the brace shall be determined before installation to avoid damage caused by disassembly or deformation and looseness of the circlip. After installing the ball head, pay attention to press the circlip on the ball head in place, otherwise the rod will fall off (it is best to pull the brace outward with a little force to see whether the brace is loose. If there is looseness, it means that the circlip is not stuck in place)
8. When using the power take-off device to take power, be sure to take power from the fuse box B + high current fuse position, which shall not be lower than the fuse position of more than 20a, and shall not affect the use of other functions on the vehicle. Pay attention to the position of the ground wire and ensure a good circuit
9. If the connecting wire of the walking brace needs to be perforated, it must be perforated according to the marking position of the drilling guide of our company, and the door shall be properly pulled down to ensure that the drill bit is perpendicular to the drilling position, so as not to cause the deviation of the drill bit and scratch other places
10. When arranging the can line / power line / front key line / electric suction box connecting line, bind all lines and plugs to the threading device with the minimum area (the large plug is tied in the front, and the small plug and binding wire are tied in the back). Spray surface wax in the threading pipe of the original vehicle to facilitate threading (please refer to the installation flow guide diagram for specific layout position)
11. Do not plug and unplug the connected leads and accessories under the power on state, so as to avoid damaging the host or accessories during plugging and unplugging.



1. Remove the left and right struts of the original car, and remove the fixing brackets of the upper and lower struts.



2. Install the left and right supports of our tail door as shown.



3. Install the left and right supports of the body of our company, install the left and right electric struts of our company, and the outlet end faces down.



4. Remove the original rear door lock machine, install our electric lock machine, plug in the electric plug and lock control plug.



5. Remove the original rear door lock hook and install our standard lock hook.



6. Route the power cable to the main driver, and connect the ground cable to the ground screw inside the triangle plate on the side of the main driver.



7. Remove the left pedal trim plate of the main drive to find the safety position of the original car, as shown in the figure, unplug the 30A normal electric safety adapter of the original car and plug the Electrical reclaimer to get power.



8. The front is controlled by the front button of the original car on the main driving door.



9. Drill holes on the right side of the tail door trim panel and install our special rear buttons.

Description of electric tailgate control of this model

Original car	Original vehicle key	Press 3 times the unlock button
	Trunk handle	Press once
retrofitting	Tailgate switch	Click once
	Driver's seat front switch	Press and hold for more than 1 second
	Kick sensing (power tailgate option)	The sensing area raises the foot for 1 second and then retracts the foot

Common commissioning operations of electric tailgate

Height memory setting	Gently push the tailgate to the appropriate height, press and hold the button of adding tailgate for 3 seconds, and the sound of Di indicates that the height is set successfully. If it is opened again, it will rise to this height automatically.
Didi prompt tone setting	In the process of opening and closing the trunk, there is no prompt tone by default, and it can be opened and closed manually. Method: press the tailgate button twice in a row: release it every 3S, and then repeat the second operation to open or close the prompt tone.
Eighth gear acceleration and deceleration setting	The default is three gears, with a total of eight gears. The closing speed can be adjusted by changing gears to avoid the problem that the door needs to be closed repeatedly or cannot be closed due to vehicle differences, or the customer complains that it is too fast and too slow.
Controller sleep recovery	If the controller does not work and does not light up, it is not the controller that is broken. It may be that the controller will sleep due to improper installation and wiring. Pull out the power cord and wait for 5 minutes to recover, or discharge the two pins in the power socket and resume work in advance.

Setting method of eighth gear acceleration and deceleration: when opening the door, manually take the screwdriver to quickly turn the tailgate lock to the full lock state. Within 10 seconds, press the tailgate key briefly (the controller will emit didi sound), and the number of times to determine the closing speed (default 3, maximum 8, minimum 1, and the minimum closing speed will increase by 50% for each gear increase in the speed level). After setting the desired speed, quickly open the tailgate lock in any way (tailgate handle, tailgate switch, key, front switch of driving position), and the closing speed setting takes effect.

Common troubleshooting of electric tailgate

classification	Number of alarm sounds	Cause analysis / solution
Troubleshooting according to the number of alarm sounds of the host	① 2 alarm sounds, anti pinch function alarm	1. Check whether there is any foreign matter blocking during the lowering of the tailgate; 2. Check whether the tailgate rises to the highest position beyond the travel of the strut, gently press the tailgate down a little and press the key switch for 3 seconds to remember the height; 3. Check whether the waterproof rubber strip ring of the original tailgate is restored during disassembly
	② The alarm sounds 5 times, and the electric suction lock is not opened or closed in place	1. Check whether the electric suction control line is connected correctly and whether the connector of the electric suction control line is damaged; 2. Check whether there is abnormal noise when the electric suction works. If so, replace the electric suction lock machine
	③ The alarm sounds 10 times, and the door opening and closing timeout alarm	1. Check whether the tailgate is blocked by foreign matters; 2. Check whether the tailgate is deformed, resulting in poor opening and closing; 3. Check whether there is abnormal noise when the brace is running; 4. Check whether the battery voltage is normal
	④ The alarm sounds 15 times and the lock fails to open	1. Check whether the door lock works normally; 2. Check whether the door lock control line link is correct;
	⑤ The alarm sounds 20 times, and the current of pole motor exceeds the limit	Manually closing the door or restarting the electric tailgate controller can be restored. If it cannot be restored, please replace the controller
	⑥ The alarm sound is 25, and the driving circuit of electric pole motor is faulty	1. Check whether the strut control line and electric lock control line are short circuited; 2. Check whether the stay rod or electric suction lock operates normally; 3. Replace the power tailgate brace
	⑦ 30 alarm sounds, double bar balance alarm	1. Check whether the ball head of the stay rod is out; 2. Measure whether the left and right brace strokes are consistent; 3. Check whether the door is deformed; 4. Check whether the left and right brace wires are connected normally and whether the brace control wire connector is damaged; 5. Replace the brace; 6. Replace the power tailgate controller

Common troubleshooting of electric tailgate

parts	Installation and after-sales FAQs	Cause analysis	resolvent
Lower electric suction lock	① After installation, the left and right gaps are uneven or the door cannot be closed	The fixed position of the electric suction lock was not adjusted properly during installation	Adjust the fixed position of the electric suction lock, and the upper, lower, left and right positions should be centered
	② The electric absorption effect is not obvious after the door is closed after installation	The electric suction stroke is not adjusted properly	Adjust the electric suction stroke and try not to bend the pull rope too much
	③ The pull lock spring force is attenuated or broken	Quality problems of electric lock	Replace the new electric suction lock
	④ The electric locking machine is burnt and locked and does not work	There may be a change in the lock signal, or there may be a problem with the electric locking machine	Check and measure the change of the original lock signal. If there is no problem, replace the electric suction lock
	⑤ The electric suction lock machine disengages and idles, making abnormal noise, and the electric suction has no effect	Quality problems of electric lock	Replace the new electric suction lock
Bracket or electric lever	① When the installation is completed, the door cannot be closed, and the door cannot be closed	① When the installation is completed, the door is only half closed and stops, and the alarm sound or the door cannot be closed	Check whether the harness plug of brace is connected normally; Check whether the upper, lower, left and right supports are installed correctly; Measure the stroke of electric rods on both sides
	② When the door rises to the highest point, it will automatically fall down a section	The power lever is not strong enough to support the tailgate or the software does not match	Replace the electric lever or re match it by refreshing the software
	③ The electric lever of door switch falls off	The pole is not clamped tightly; The clamp spring of the electric pole is deformed or loose; Support deformation	Check whether the electric rod is fastened; Check whether the clamping spring on the electric rod is loose or deformed; Check whether the support is deformed during operation, resulting in the falling off of the strut ball joint
wire rod	① Abnormal door closing caused by incorrect lock signal	The lock signal adapter line may be in poor contact or the line definition line sequence may be incorrect	Check whether the lock transfer signal line is connected normally and whether the line definition and line sequence are correct. If there is an error, it can be corrected manually
	② Key control does not work	Central locking signal wire wiring error, or can signal wiring error	Check whether the central locking signal is correct and whether there is poor contact; Check whether the can signal wiring is correct; If you make a mistake, please correct it
	③ After installation, the trunk cannot be locked / the door is closed abnormally / the power is not available	There may be a poor ground connection or a problem with the grounding position	Check whether the ground wire is in poor contact and ensure that the ground wire is OK; It is recommended that the ground wire be connected to the original vehicle grounding screw
	④ After installation, the electric tailgate does not respond and does not work	The power supply is not powered on or the power supply is incorrect	Check whether the tail door key light is always on. Take off the normal fuse of the original vehicle and insert it into the fuse configured for the electric tail door to ensure the double fuse
ECU controller	① Normally, the door cannot be opened after it is locked	Cut off the power supply of the control box and test whether the door can be opened	If possible, first check whether the ground wire is correct, replace the position of the ground wire, and then replace the control box
	② After installation, the door cannot be closed or the speed is too slow	Check whether there is any foreign matter blocking; Check whether the current reaches the value and start the vehicle	Check and eliminate the installation problems first, and adjust the speed according to the plus or minus gear tutorial to achieve the appropriate effect