

AUTO EASE

POWER LIFTGATE MANUAL



For
Toyota 4Runner
2010-24

This power lift gate kit for Toyota 4Runner support automatic trunk open/close control by using 1) original remote control 2) dashboard/front button 3) tailgate/rear button 4) Foot sensor – optional

















NOTICE

1. Check parts & quantity in the accessories table. Must use the brackets/screws provided by us if not stated
2. Shut down engine before installation. Product must be installed by qualified installers
3. Strut assembly contains high pressure part, self-disassembling the strut is prohibited
4. Make protections on dashboard, plastic trims, and metal surfaces, to prevent scratches during installation
5. Secure all the cables/wires in vehicle to prevent connection getting loose in driving
6. Installation time depends on many factors, usually it will take around 3 hours, please follow manual patiently





ATTENTION

1. This liftgate kit is designed for standard factory rear door panel, modifications with extra weight may not be supported
2. Bench-test is forbidden, liftgate kit must be installed in vehicle before powered testing
3. Once power struts are installed, manually & gently lift rear door up/down to make sure they can be moved smoothly, and without interference with trunk & door panels
4. Do not insert power plug to control box until whole installation procedures are completed
5. Make sure there is backlight on our rear button once power is connected
6. Initialize system after installation - manually & gently lift tailgate to desired height, keep on pressing our rear button 4 second until a beep is heard, click our rear button to close, when door is fully closed with a beep, it means the system is initialized and ready for use

PART LIST

			
Power Strut x2	Control Box x1	Power Latch x1	Power Cable x1
			
Lock Assembly x1	Strut Cable Extension x2	Rear Button Cable x1	Fuse Power Plug x1
			
Front Button x1	Rear Button x1	Hinge Stiffener x2	Bracket x2
			
Ball Stud x2	Washer x2	Screw M8x20 x4	Drill Bit x1

TOOLS (not included)

			
Trim Remover x1	Spanner x1	Cable Route Puller x1	Electric Tape x1

REMARK

Pictures on above are for reference only, they may not up to date to show actual parts included. Autoease keep the right to update product appearance & designs without notification.

The installation steps are based on left hand drive.

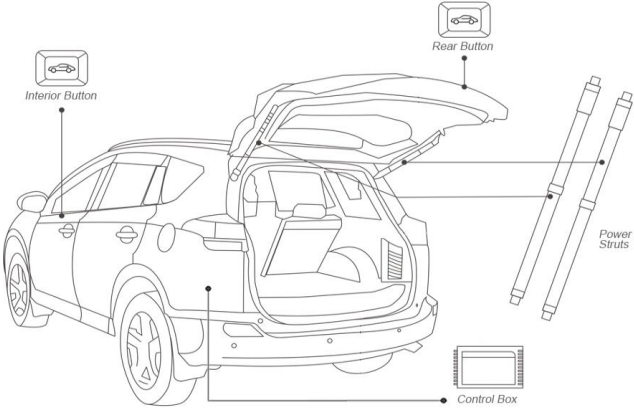
Micro-SD slot in control box is for firmware update purpose.

Make protections on dashboard, door panels, trunk panels and metal surfaces, to avoid scratches during installation.

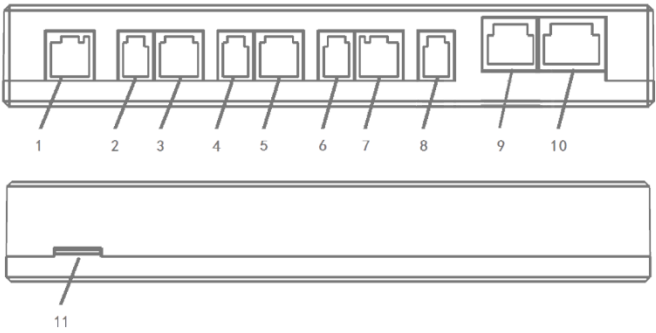
IGNORE our green unlock cable if your key fob has factory trunk button, otherwise connect it original unlock signal for remote control (3x unlock), please contact Autoease for support.

IGNORE blue wire in rear button cable

SCHEME



CONTROL BOX



- 1 Power
- 2/3 Left Strut
- 4/5 Right Strut
- 6/7 Power Latch
- 8 Lock Adapter
- 9 Front Button
- 10 Rear Button
- 11 MicroSD Slot

WARNING!

Do NOT manually pull the door once power is connected, please use our buttons to open & close only. Manually pull the door could cause deformation of the door hinges.

MUST replace original door bracket and car body studs to ours, otherwise it will cause deformation to the hinges.

MUST install our hinge stiffener to reinforce factory door hinges!

Double check the wiring before initialize system, make sure the GND wire is grounded to a screw with good conductivity in left trunk.

ECU (control box) must be placed in left side of trunk for waterproof

Factory grommets in tailgate panel needed to be caulked properly after wires were passed through

MUST RESET HEIGHT if there are TWO BEEPS (NOT ONE) when door stopped opening: Long press our rear button 5 seconds until a beep is heard, short press our rear button to close door. When door is fully closed, done!

INSTALLATION STEPS

1. Remove dashboard panel, A pillar panel, step panel per arrows



Remove B pillar panel, passenger's step panel per arrows



2. Pry the trunk's left side panel for routing cable



Remove rear door panels



3. Use our hinge stiffener to reinforce original door hinge.

Tips: You will need assistance to HOLD THE DOOR when removing the gas springs, it is VERY HEAVY

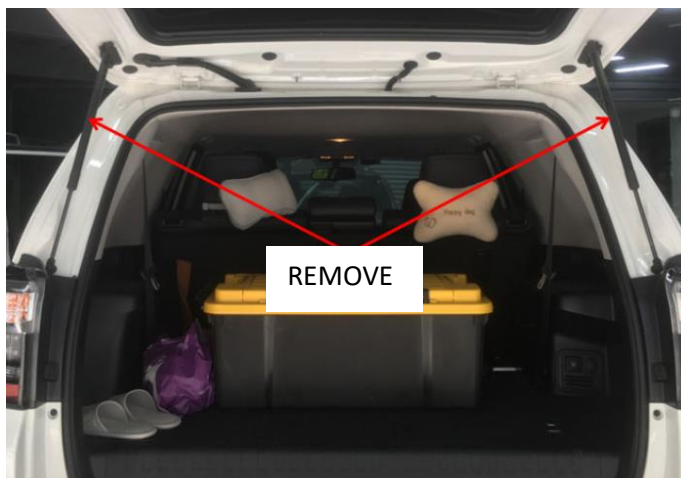
Tips: First remove the left screw, install our stiffener through left hole and secure it with the original screw, then remove the right screw to complete the installation. Do NOT remove all the screws at the same time.



4. Loosen original gas spring clips by using a screwdriver, pull the gas spring out gently. You will need assistance to HOLD THE DOOR when removing the gas springs, it is VERY HEAVY.

Picture for reference only





5. Use our door bracket to replace original one, fix with our screws



Replace original trunk stud & washer to ours



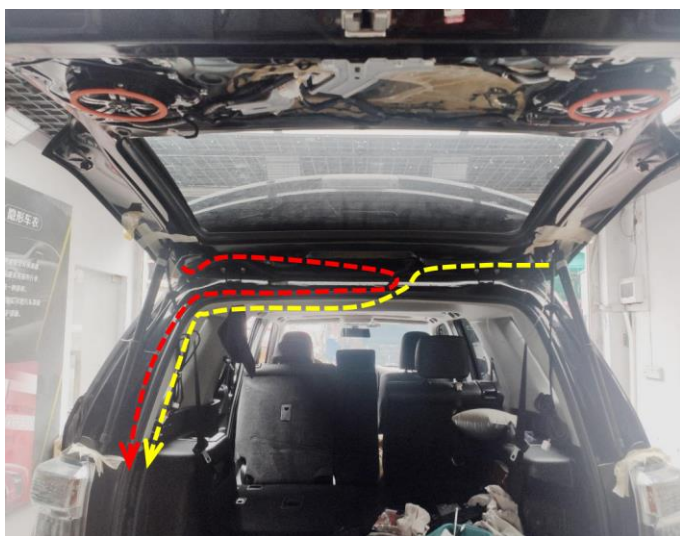
6. Install our power struts, cable end at tailgate



Route strut cable through factory reserved hole in tailgate panel to left side of trunk, make sure the cables are oriented to the holes in the door for easy routing through



Route strut cable to left side of trunk, use extension cable in case the cable with strut is not long enough



7. Disconnect original tailgate latch/lock connector. Replace original tailgate latch to ours for soft close, use original screws to fix.

Tips: When installing power latch, do NOT fix left two screws too tight. Screw-in a little then you have room to move power

latch around to fix the third screw, finally fasten all screws tightly.

Tips: Once power latch is installed, please manually & gently lift tailgate up & down (open/closed), make sure latch and striker are align in center



8. Route our power latch/lock cable and our rear button cable from tailgate panel to left side of trunk



Tips: Route cables on the left side of tailgate panel, along with the same path of the existing wires outside of the sliding

window track. Do NOT route on the right side as limited space is available, make sure that the wires are not caught in the sliding window track.

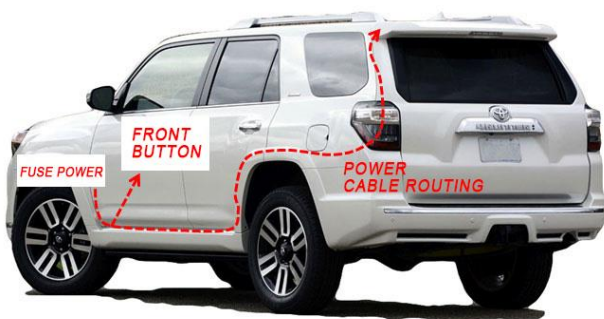
Tips: Factory grommets in tailgate panel needed to be caulked properly after wires were passed through.



9. Connect our lock harness to original lock connector



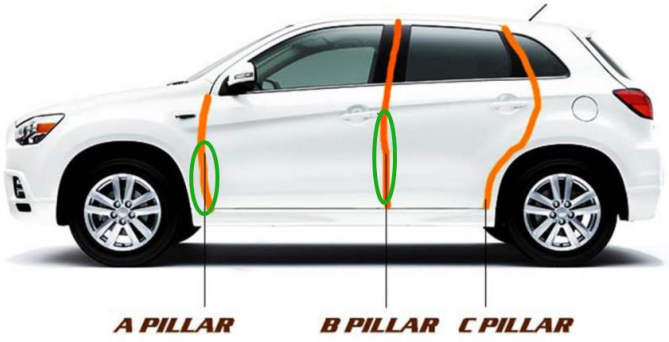
10. Route power cable & GND to left trunk. Please aware ECU is placed in left side trunk for waterproof (NOT tailgate panel)



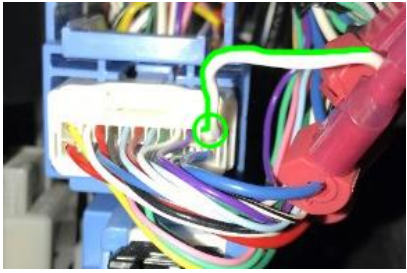
11. Fix GND wire to a factory ground screw in left side of trunk per picture



12. Connect our green wire to original unlock signal in A pillar (left side of kick panel) for remote control (3x unlock button)



For 2010-19 4Runner, connect our green wire to original white wire per picture



For 2020-24 4Runner, connect our green wire to original green wire per picture



13. Replace factory button holder (unused button) to our front button, connect our loose red wire to factory existing button's power for backlight, picture for reference

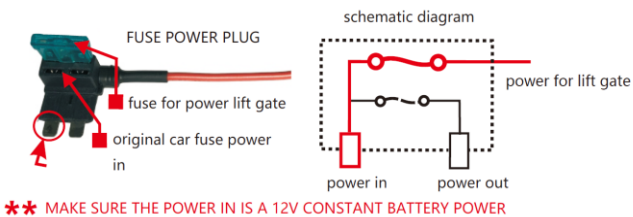
a) button in dash panel



b) button under a/c control panel



14. Locate factory fuse box under driver's dashboard (left hand drive), remove original 30A in fuse box, insert original 30A fuse back to our fuse power plug, finally insert our fuse power plug into original 30A fuse port. Please aware the power in must have 12v constant power



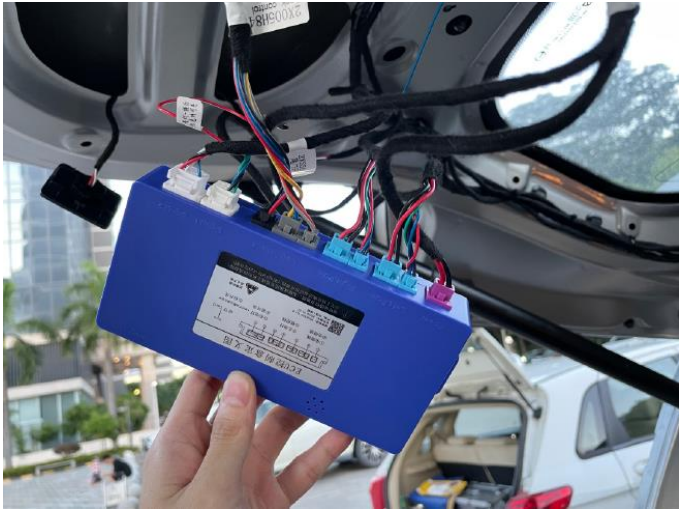
Please aware fuse plug cord direction per arrow



15. Fix our control box in left side of trunk with sticker or strings tightly



16. Insert all plugs to the control box, leave power plug as the last one, you will hear a beep once power is connected



17. Drill a hole in door panel to install our rear button, picture for reference. Ignore loose blue wire in rear button cable

a) Button in tailgate panel



b) Button in tailgate handle



18. Restore original plastic door panels, installation completed.

MUST RESET HEIGHT if there are TWO BEEPS (NOT ONE) when door stopped opening: Long press our rear button 5 seconds until a beep is heard, short press our rear button to close door. When door is fully closed, done!

FREQUENTLY ASKED QUESTIONS

1. How to operate the liftgate?

There are four methods as below:

- 1) Use original remote – 3x unlock
- 2) Use our rear button – 1x
- 3) Use our front button – long press
- 4) Use foot sensor – Sold separately

2. How to setup tailgate height?

Manually lift door to a desired height, long press our rear button until you hear a beep, done.

3. Why there are two beeps when door closing?

- 1) two beep means anti-pinch, check if anything is preventing strut/door movement
- 2) inspect power supply, include positive 12-16v, negative connects, and fuse box

4. Tailgate cannot be closed to the end and not locked

- 1) slightly adjust latch striker position i.e., increase/lower height
- 2) reverse left and right strut plugs in control box
- 3) check control box wiring
- 4) must using our screws in the box
- 5) remove rubber lock buffer block in the latch

5. Tailgate can only open to half of the height

- 1) reverse left and right strut plug in control box
- 2) reset tailgate height

6. Original remote/fob does not work

- 1) check our yellow wire connection to original unlock signal
- 2) check OBD connection if kit has a decoder box
- 3) adjust click rhythm
- 4) check OEM vehicle's system settings about unlock signal

7. Front button can open but not close the gate

- 1) check front button wires connection
- 2) check lock adapter (status) signal
- 3) update firmware