Installation Manual

Compatible Model	CToyota CAlphard 30 (RHD)
Year	2018-2021

8-ETTY-5114-00-00

1. Points to note

● For safety and to ensure the proper use of product, please ask a professional technician to install. Do not disassemble and install it privately in case of damaging product and installation accidents.

● Please arrange each wiring harness according to the wiring method in this manual, be sure to tie each wiring harness to the vehicle's original wiring harness with cable ties. Make sure the wiring harnesses are not located at the fasteners or screw holes to avoid the wiring harnesses crushed by the vehicle interior trim panel fasteners and screws during the installation process.

● Because some of the wiring harness terminals (as shown in the red ellipses below) are not inserted into the wiring harness connectors during manufacture, please insert terminals into the wiring harness connector first to avoid short circuit between terminals after the wiring harnesses have been arranged, then connect other plugs of the wiring harnesses (as shown in the blue ellipses below) with the original plugs.

● Check the function display of instrument panel before installation, whether the button of the vehicle is working properly, whether the doors and windows work properly while opening and closing, whether there are scratches on the internal and external surfaces of the vehicle; and report to the customers in a timely manner if there are any problems.

● During the process of disassembly and assembly, do not carry metal ornaments and other hard objects with you to prevent damage to the paintwork, seats and interior. Be sure to place the removed trim components properly to avoid scratching them.

● All the pictures in this manual are for reference only, vehicle models with different configurations may have different pictures, but the installation methods are the same.

2. Installation tools

Threading tools

Quick release ratchet wrench set

Electric drill and drill bits

Other tools

3. Product list

No.	Name	QTY	Picture
①	Strut	2	
②	ECU	1 set	
③	Wiring harness	1 set	
④	Added front switch	1	
⑤	Added tailgate switch	1	
⑥	Other parts (screws, brackets, etc.)	1 set	Omitted

Remove

1. Remove the indicated driver's side trim panels and footstep.

Remove

2. Remove the rear right door footstep to allow wiring harnesses to pass through.

Remove

3. Remove the tailgate trim panels and the trim panel on the right side of the trunk.

Remove

4. Remove the original gas struts.

Left body bracket

5. Replace the left body bracket.

Right body bracket

6. Replace the right body bracket.

Replace the tailgate brackets

7. Replace the left and right tailgate brackets.

8. Install the electric struts, L on the left, R on the right (the first letter of the strut code), making sure the ends with wiring harnesses are on the vehicle body.
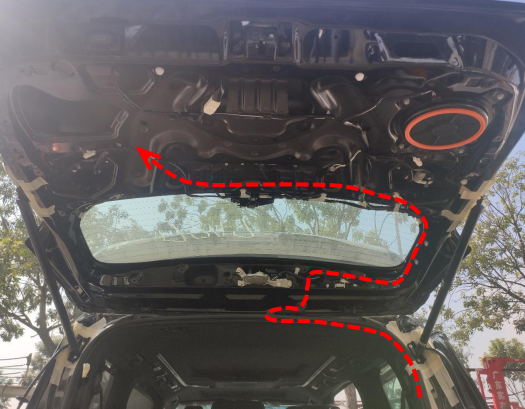
9. Thread the strut wiring harness into the tailgate through the circled hole, and then plug the hole with the hole plug. Both sides follow the same method.

10. Route the strut wiring harnesses.

11. Connect the lock signal harness with the plugs of the original tailgate switch. (Two pairs of plugs are reserved, choose the appropriate one according to the original plugs)

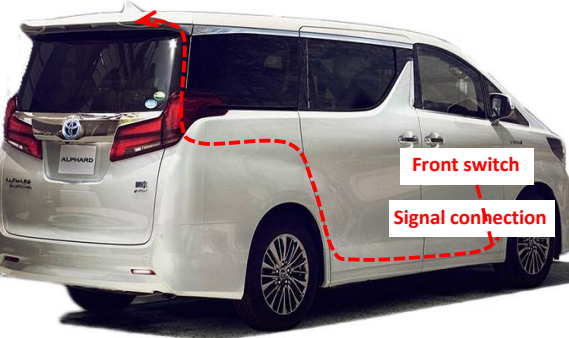12. Connect the lock signal harness to the plugs of the power latch.

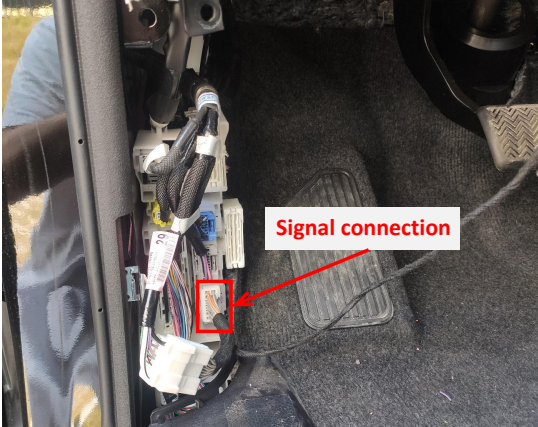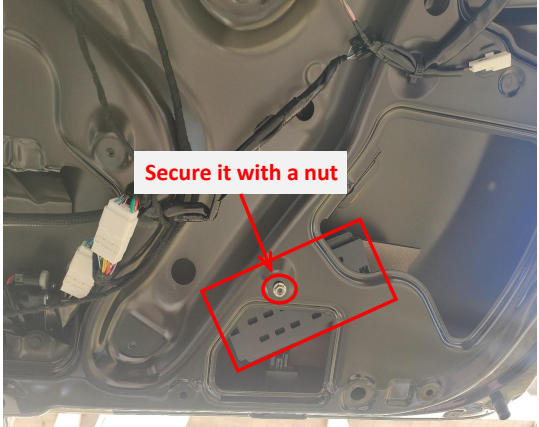13. Connect the lock signal harness to the added tailgate switch.
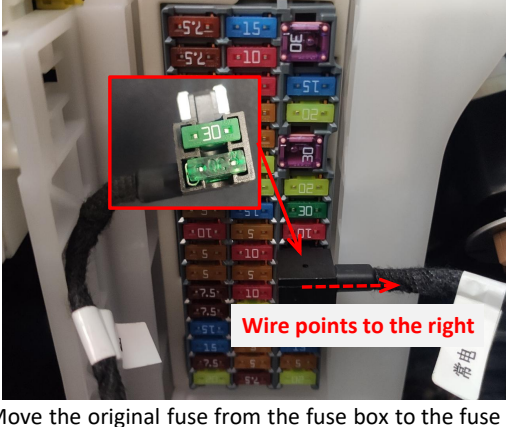
14. Route the power harness to the tailgate (do not connect power before inserting terminals into wiring harness connector).

C5
C6
C7
C8
C9
C10
C1
C2
C3
C4

Note: For models with fewer than 10 wires, just insert them according to the corresponding label or color.

15. Insert the power harness terminals into the wiring harness connector as shown above.

Front switch

Signal connection

16. Route the power harness (the power supply is on the passenger side).

Grounding 17. Ground at the indicated position on the tailgate.	**Signal connection** 18. Connect the power harness to the signal plug and its socket beside the pedals.	**Install the front switch** 19. Remove the blank button from the switch panel and install the added front switch. (connect the plugs for backlight behind the switch panel)	**Constant power** 20. The location of the fuse slot for power supply is indicated in the diagram.	**Wire points to the right** 21. Move the original fuse from the fuse box to the fuse tap and then plug the fuse tap into the fuse box. Pay attention to the direction.
Secure it with a nut 22. Secure the ECU bracket at the indicated hole.	23. Insert the strut wiring harnesses ①②, lock signal harness ③, and power harness④ into the ECU in sequence, and fit the ECU into its bracket.	24. Press the added tailgate switch to initialize the system once, and then test the functions of the electric tailgate.	25. Reinstall all the trim panels and install the added tailgate switch.	**5. System initialization method** 1. Press the added tailgate switch button to make the tailgate close automatically; 2. Press the switch button outside the tailgate to open the tailgate and it will make a long sound of "beep". 3. The system initialization is complete. **6. Instructions for the electric tailgate** 1. Methods to open and close the tailgate: ●Press the unlock button on the remote key 3 times; ●Press the unlock button at the driver's area 3 times; ●Press the original tailgate switch button to open; ●Press the added tailgate switch button to close; ●Press the added front switch button: press and hold for 4s to open and press once to close.
2. Method to pause the tailgate: During the operation of the tailgate, press the button with any of the above methods, and the tailgate will be paused. Press again, and the tailgate will move in reverse. 3. Method to memorize the height: Open the tailgate to the height you want to set, long press the added tailgate switch, and release the switch after hearing a long "beep ----" . The height memory is complete. Tip: During the operation of the tailgate, pause the tailgate, and then push the tailgate to the ideal height with your hand. 4. Meanings of the buzzer sound: "Beep" once: Receiving an open/close or pause signal, the tailgate will immediately open/close or pause; "Beep" twice: The tailgate has been fully opened or closed; "Beep" three times：The resistance during opening or closing the tailgate is too large, and the intelligent anti-pinch has been turned on; Long sound of "beep": The height memory is complete.				