Vehicle-Specific Power Tailgate Lift System

Toyota Landcruiser 300

2021-2023

Part no. ARTLC321



Points to Note

- For safety and to ensure proper product use, we recommend professional installation. Do not attempt to disassemble or install the system yourself, as this may result in product damage or personal injury.
- Route each wire harness according to the instructions in this manual, securing them to the vehicle's factory harnesses with cable ties. Ensure the wiring is kept clear of fasteners and screw holes to prevent the harnesses from being crushed or pinched by trim panel clips and screws during reassembly.
- Some wire harness terminals (indicated by the small ovals below) are left disconnected during manufacturing. Please insert these terminals into their corresponding connectors before routing the harnesses to prevent short circuits. Once routed, connect the remaining harness plugs (indicated by the large ovals) to the vehicle's factory plugs.



- Before beginning installation, inspect the vehicle's instrument panel display, verify that all buttons, doors, and windows operate correctly, and check for any pre-existing scratches on the interior or exterior. Report any issues to the customer immediately.

Installation Precautions

- Remove any metal accessories or hard objects from your person during installation to prevent damaging the vehicle's paint, seats, or interior. Carefully store all removed trim components in a safe location to avoid scratches.
- The illustrations in this manual are for reference only. While specific vehicle configurations may vary slightly from the pictures, the general installation methods remain the same.

In the Box

1		Strut	Qty 2
2		Tailgate ECU	Qty 1 set
3		Wire harness	Qty 1 set
4		Power latch	Qty 1
5		Tailgate switch	Qty 1

Other Accessories

Screws, brackets

Recommended Tools



Threading tools



Quick release ratchet wrench set



Electric drill and drill bits



Other tools

Notice

This vehicle-specific kit converts the manual tailgate on the vehicle listed in this manual to power operation. Installation requires a good level of technical knowledge. Please read this manual in its entirety before you start.

Use the correct tools during installation to prevent damage to the vehicle or the product. Please note that we cannot be held liable for any issues arising from improper installation.

Before starting the installation, disconnect the negative battery terminal and make sure the ignition is off and the key is removed or kept away from the vehicle.

Installation



1 Remove the indicated driver side trim panels and door sill panel.



2 Remove the rear right B-pillar trim panel and door sill panel.



3 Remove the tailgate trim panels.



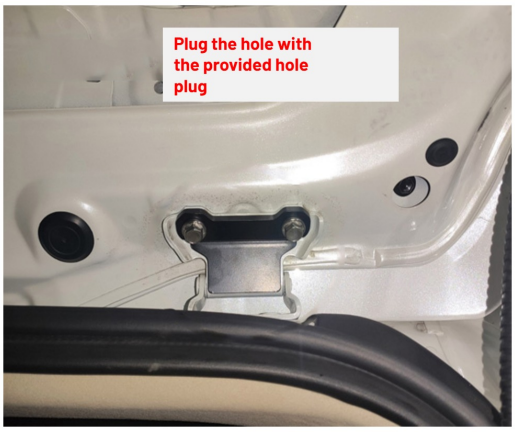
4 Separate the trim panel from the right side of the boot.



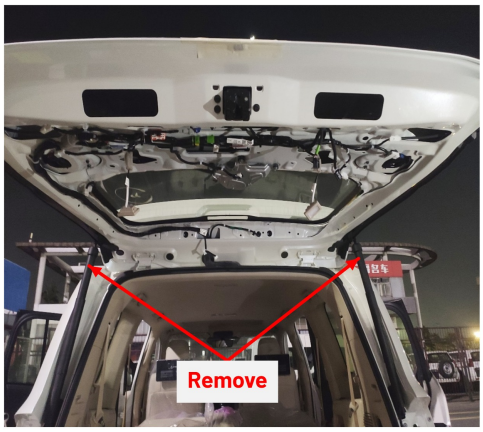
5 Remove the indicated rubber pad to allow the strut wire harness to pass through. Both sides are the same.



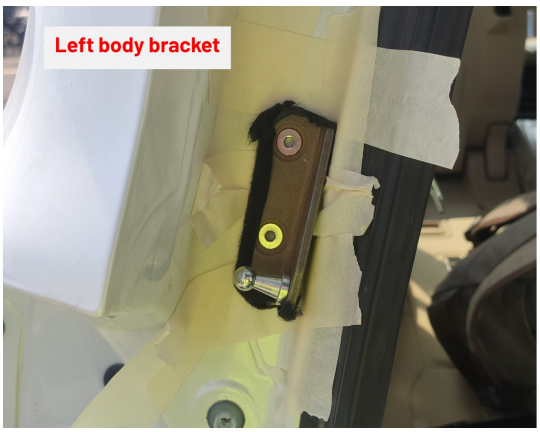
6 Add a washer to the hinges on both sides of the tailgate and secure them with the provided screws.



7 Plug the holes on both sides with the provided hole plugs.



8 Remove the original gas struts. To do this safely, remove and replace one strut at a time.



9 Install the bracket on the left side of the vehicle body.



10 Install the bracket on the right side of the vehicle body.



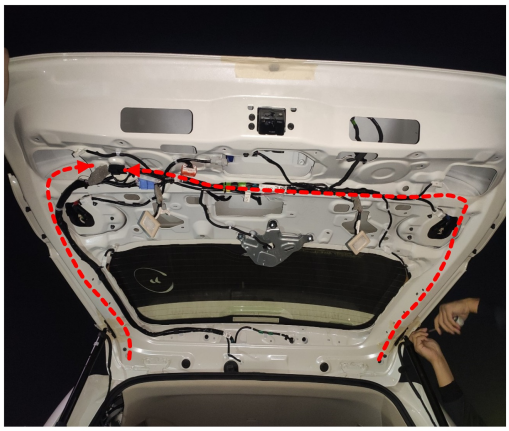
11 Install the bracket on the left side of the tailgate.



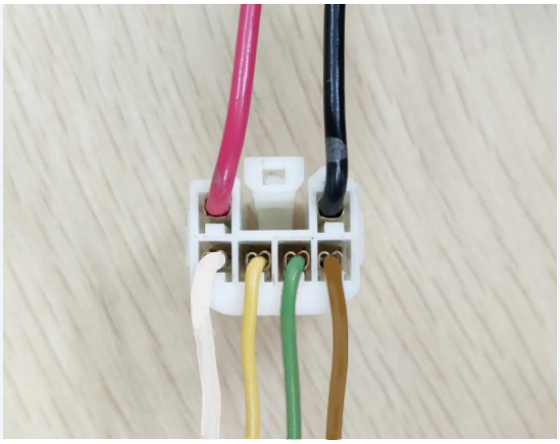
12 Install the bracket on the right side of the tailgate.



13 Install the electric struts (L for the left side, R for the right side, as indicated by the first letter of the strut code), ensuring the ends with wire harnesses face the tailgate.



14 Pass the strut wire harnesses through the factory holes and route them to the tailgate.



15 Insert the strut wire harness terminals into the wire harness connector as shown above.



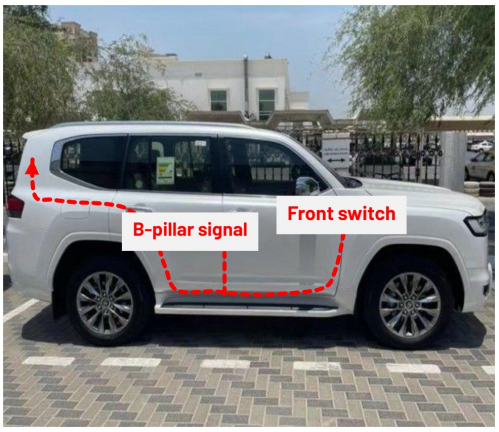
16 Remove the factory latch and install the power latch.



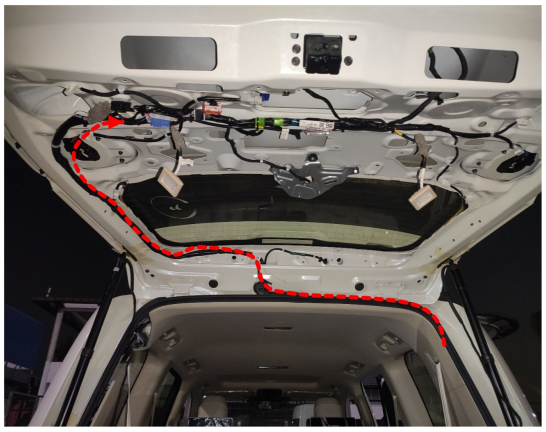
17 Connect the lock signal harness plugs to the power latch.



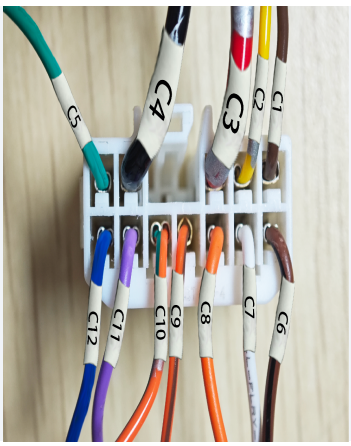
18 Connect the tailgate switch signal: connect the lock signal harness plugs to the factory tailgate switch.



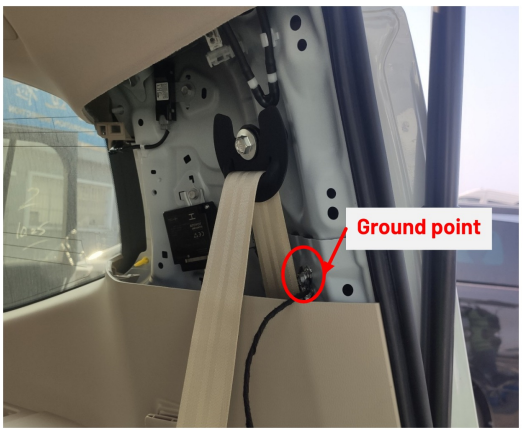
19 Route the power harness along the right side of the vehicle.



20 Thread the power harness to the tailgate. Insert the terminals into the wire harness connector before connecting the plugs.



21 Insert the power harness terminals into the wire harness connector as shown above.



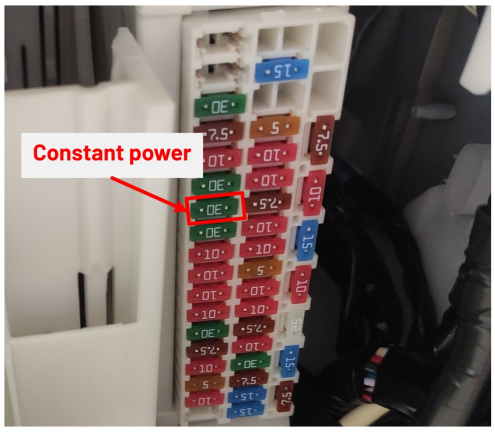
22 Secure the ground wire connector to the factory grounding point on the right side of the boot.



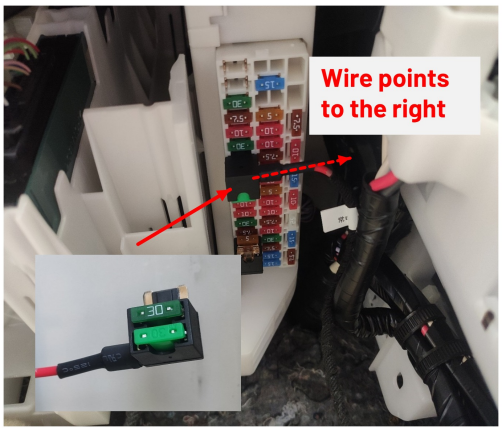
23 Connect the B-pillar signal harness at the rear right B-pillar.



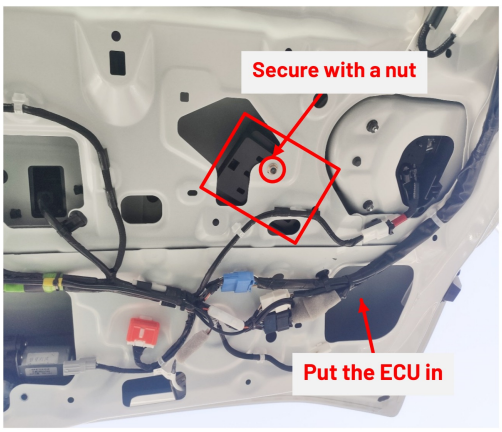
24 Remove the blank button from the switch panel. Install the front switch and connect the adjacent plugs so the button lights up.



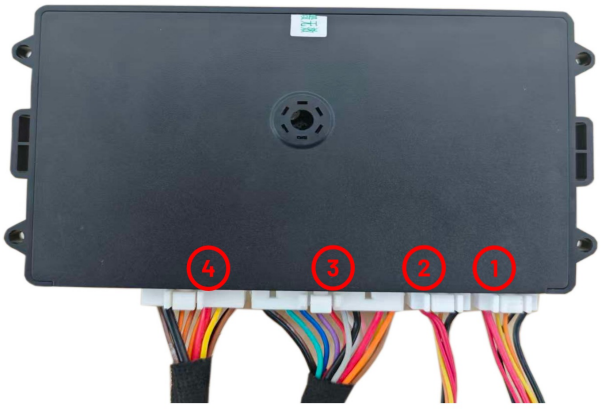
25 The fuse box is located on the right side of the front passenger's seat. The fuse slot for the power supply is indicated above.



26 Remove the factory fuse from the fuse box, fit it to the fuse tap, then plug the fuse tap into the fuse box. Pay attention to the direction.



27 Place the tailgate ECU at the indicated position and secure it with a nut.



28 Connect the left and right strut wire harnesses ①②, lock signal harness ③, and power harness ④ to the tailgate ECU in sequence.



29 Press the tailgate switch buttons to open and close the tailgate once, the system completes initialisation, then test each function of the electric tailgate.



30 Reinstall all trim panels and install the new tailgate switch.

System Initialisation

1. Press the newly installed tailgate switch to close the tailgate automatically.
2. Press the exterior tailgate switch to open it; you will hear a long beep.
3. System initialisation is now complete.

Operating Instructions

1. **Opening and Closing 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 factory tailgate switch.
   - Press the newly installed tailgate switch to close the tailgate.
   - Press and hold the front switch for 4 seconds to open the tailgate, or press it briefly to close it.
2. **Pausing the Tailgate:**

   While the tailgate is in motion, press any of the control buttons to pause it. Pressing a button again will reverse the tailgate's direction.

Configuring the Tailgate Switch Settings

1 Setting the Maximum Opening Height

Press and hold the switch button on the tailgate. Release it after hearing one long beep - the height has been successfully memorised.

Tip: While the tailgate is in motion, pause it, then manually push it up to the desired height.

2 Adjusting Closing Speed

Press and hold the switch button on the tailgate. Release it after hearing two short beeps - the closing speed-up function has taken effect.

There are five speed levels. Repeat this process to increase the speed by one level.

3 Adjusting Opening Speed

Press and hold the switch button on the tailgate. Release it after hearing three short beeps - the opening speed-up function has taken effect.

There are five speed levels. Repeat this process to increase the speed by one level.

4 Adjusting Braking Force

Press and hold the switch button on the tailgate. Release it after hearing one long beep and one short beep - the braking force has been increased.

There are five levels. Repeat this process to increase the level by one.

5 Switch Reminder Sound Toggle

Press and hold the switch button on the tailgate. Release it after hearing one long beep and two short beeps - the switch reminder sound toggle has taken effect. (Default is silent. Repeat the setting to cycle through the options.)

6 Entering the Voice Wake-Up Word and Command Word Modification Menu

Press and hold the switch button on the tailgate. Release it after hearing one long beep and three short beeps - the voice wake word and command word modification menu entered.

7 Voice Switch Power-Off Toggle Between 72 Hours and 0.5 Hours

Press and hold the switch button on the tailgate. Release it after hearing two long beeps and one short beep - the voice switch power-off toggle between 72 hours and 0.5 hours has taken effect.

8 Voice Switch On and Off

Press and hold the switch button on the tailgate. Release it after hearing two long beeps and two short beeps - the voice switch ON/OFF toggle has taken effect. (Default is ON. Repeat this step to cycle through the options.)

9 Kick Sensor On and Off

Press and hold the switch button on the tailgate. Release it after hearing two long beeps and three short beeps - the kick sensor ON/OFF toggle has taken effect. (Default is ON. Repeat the setting to cycle through the options.)

10 Remote Key Activation (Double-Press vs. Triple-Press)

Press and hold the switch button on the tailgate. Release the switch after hearing three long beeps and one short beep - the toggle between double and triple tapping has taken effect. (Default is triple tapping. Repeat this step to cycle through the options.)

11 Tap Sensor On and Off

Press and hold the switch button on the tailgate. Release the switch after hearing three long beeps and two short beeps - the tap sensor ON/OFF toggle has taken effect. (Default is ON. Repeat this step to cycle through the options.)

12 Toggle Between 2-Press and 3-Press of the Unlock Button On Remote Key

Press and hold the switch button on the tailgate. Release the switch after hearing three long beeps and three short beeps - the toggle between 2-press and 3-press has taken effect. (Default is 3-press. Repeat this step to cycle through the options.)

13 Remote Key Unlock Button Sensitivity (Quick/Slow Press)

Press and hold the switch button on the tailgate. Release the switch after hearing four long beeps and one short beep - the toggle between quick press and slow press has taken effect. (Default is quick press. Repeat this step to cycle through the options.)

14 Factory Reset

Press and hold the switch button on the tailgate. Release the switch after hearing five long beeps. The factory reset has taken effect.

Buzzer Sound Indicators

One Beep: The tailgate immediately opens, closes, or pauses in response to an open, close, or pause signal.

Two Beeps: The tailgate is fully opened or fully closed.

Three Beeps: The tailgate encountered excess resistance; the intelligent anti-pinch safety feature has been activated.

Technical Support

If you need help setting up or using your Aerpro product, now or in the future, call Aerpro Support Australia on 03 8587 8889, Monday to Friday, 9am to 5pm AEST.

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