Vehicle-Specific Power Tailgate Lift System



Lexus RX

2016-2022

Part no. ARLXRX16

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 red ellipses 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 blue ellipses) 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.

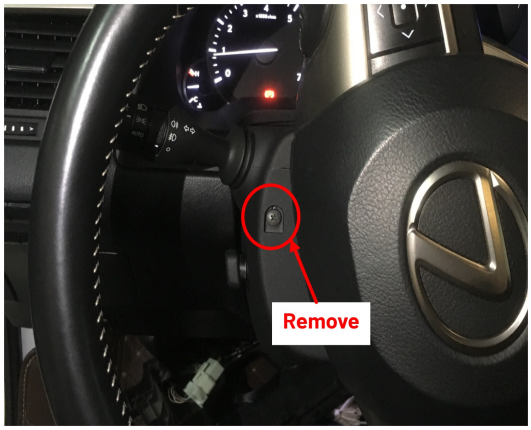
Use the correct tools during installation to prevent damage to the vehicle or the product. Please note that we cannot be held liable for any issues arising from improper installation.

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.

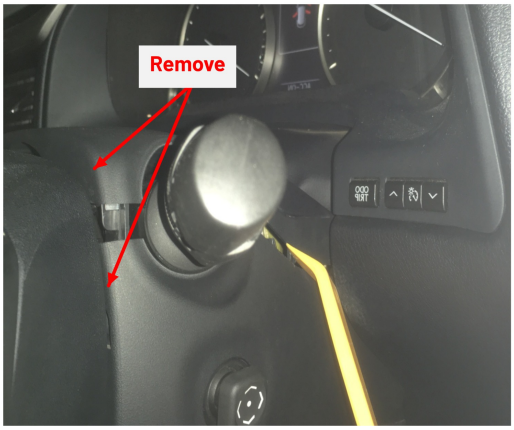
Installation



1 Remove the steering column trim panel.



2 Remove the screws on the left and right sides of the steering wheel.



3 Remove the upper and lower trim panels of the steering column.



4 Remove the driver side trim panels and door sill panel.



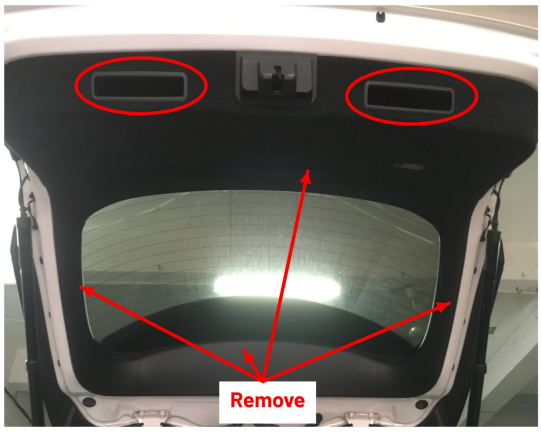
5 Remove the rear right side door sill panel and B-pillar trim panel.



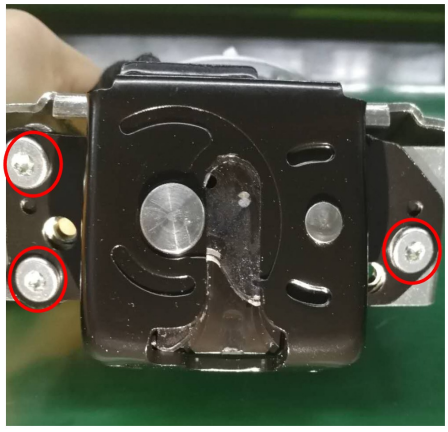
6 Take out the boot liner.



7 Remove the trim panel on the right side of the boot to allow wire harnesses to pass through.



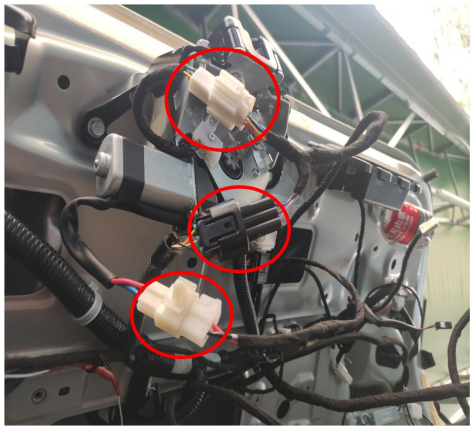
8 Remove the tailgate trim panels.



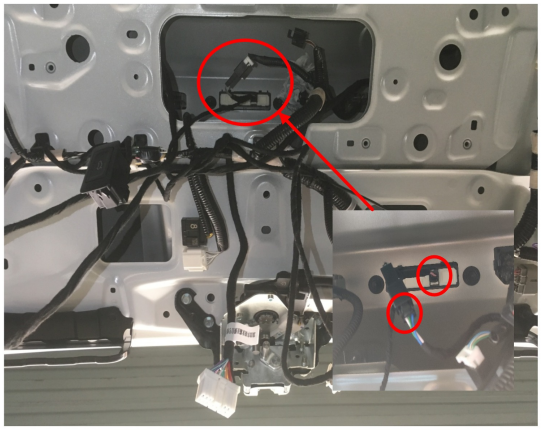
9 Remove the screws from the power latch.



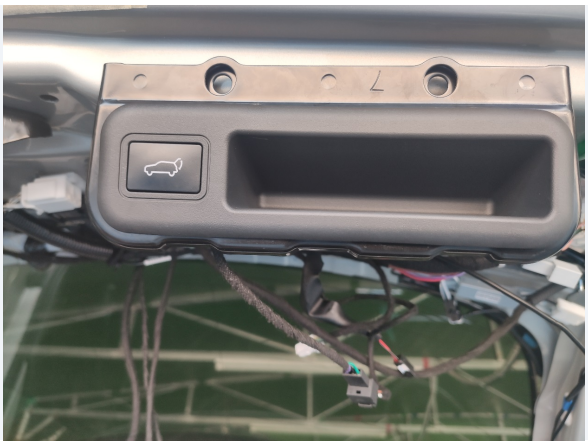
10 Remove the factory latch and install the power latch.



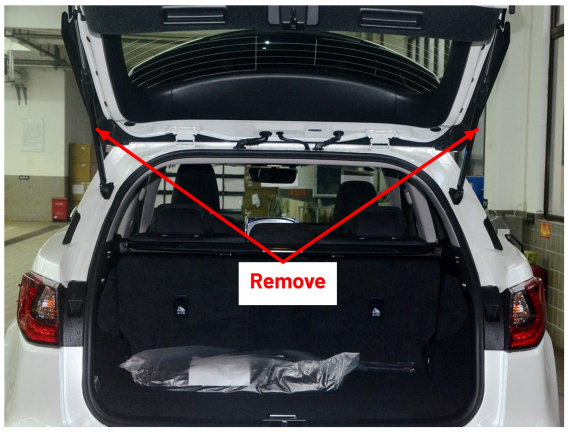
11 Connect the connectors of the lock signal harness to the power latch.



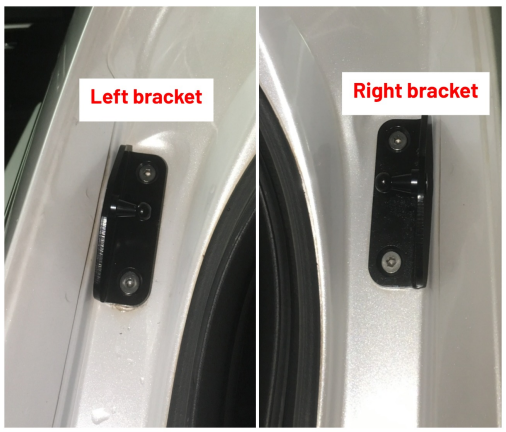
12 Connect the connectors of the lock signal harness to the factory tailgate switch.



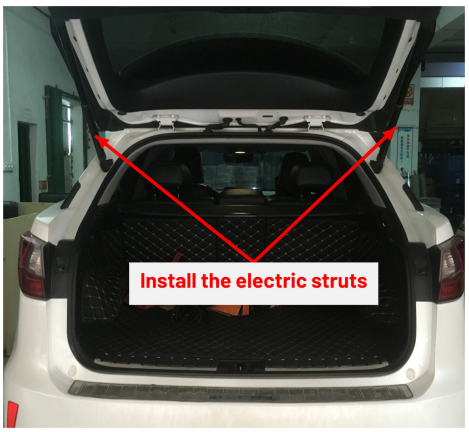
13 Install the new tailgate switch at the tailgate handle.



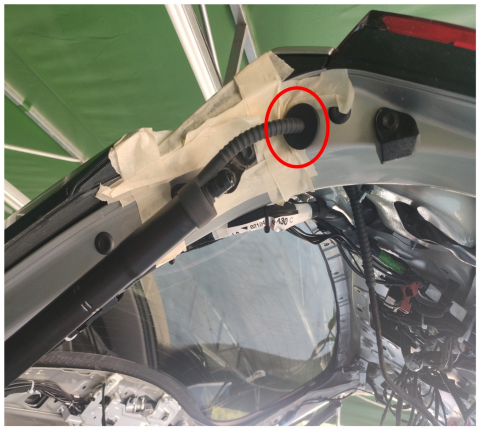
14 Remove the gas struts. To do this safely, remove and replace one strut at a time.



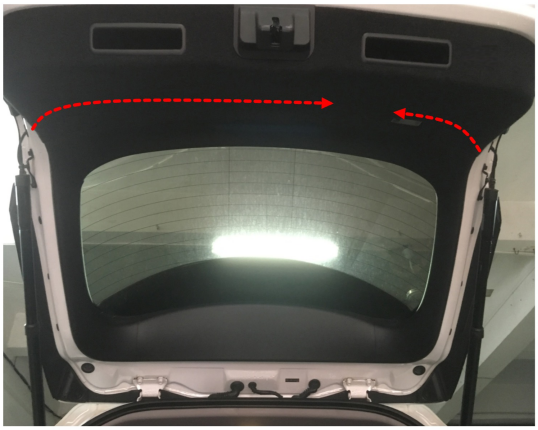
15 Replace the body brackets.



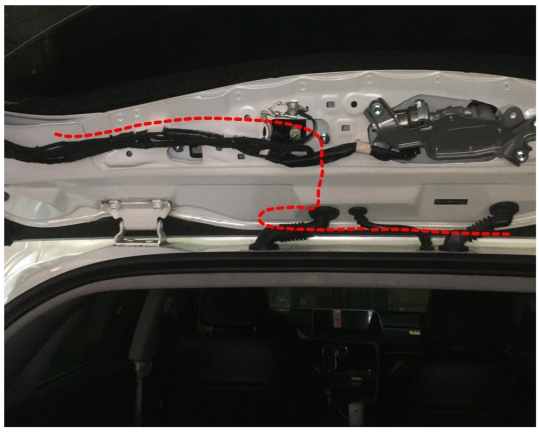
16 Install the electric struts, L on the left and R on the right (the first letter of the strut code).



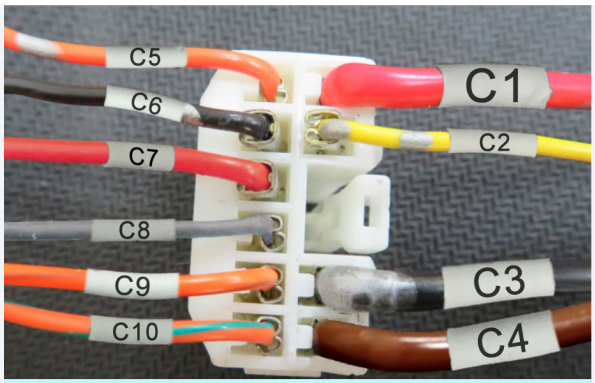
17 Pass the strut wire harness through the factory square hole, then plug the hole. The process is the same on both sides.



18 Route the strut wire harnesses.



19 Route the power harness to the tailgate; do not connect it yet.



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

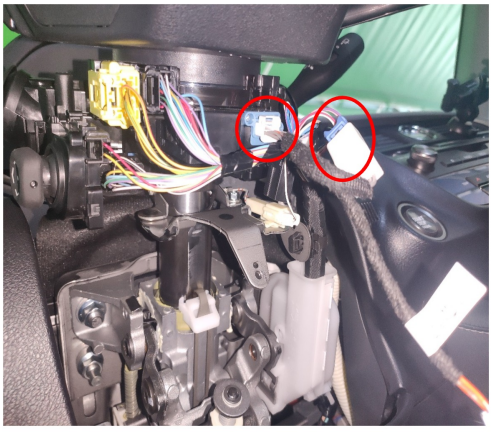
20 Insert the power harness terminals into the wire harness connector as shown above.



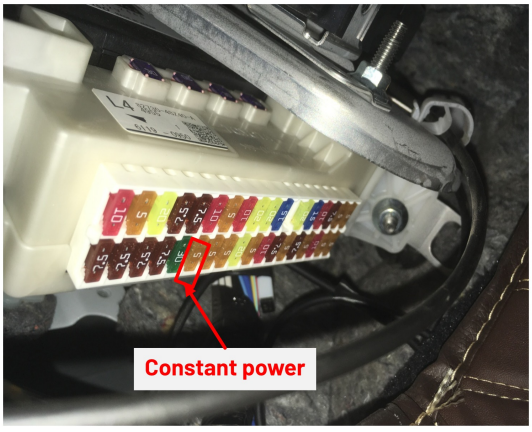
21 Route the power harness.



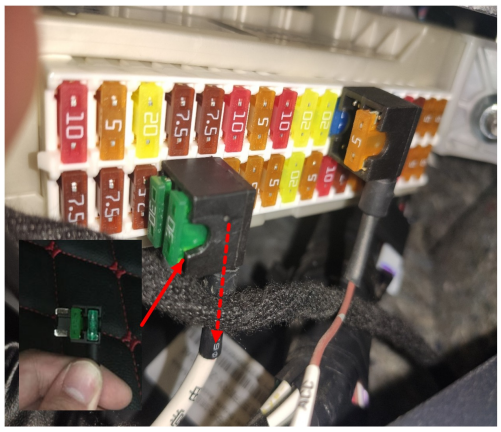
22 Secure the ground wire connector to the factory grounding point at the tailgate.



23 Connect the blue signal plug to its socket near the steering column.



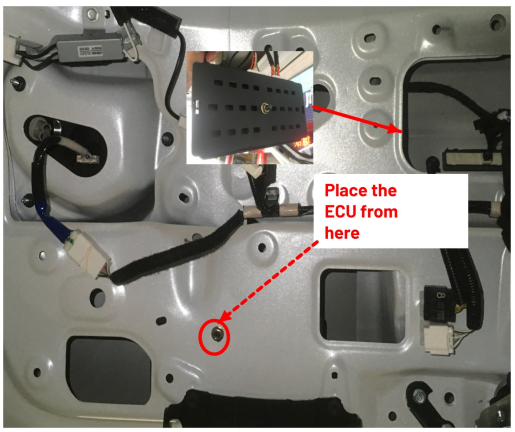
24 Connect to the constant power fuse slot (fifth in the second row).



25 Move the factory fuse from the fuse box into the fuse tap, then plug the fuse tap into the fuse box. Pay attention to the orientation.



26 Insert the strut wire harnesses ①②, lock signal harness ③, and power harness ④ into the tailgate ECU in sequence, then mount it onto its bracket.



27 Secure the tailgate ECU at the indicated hole.



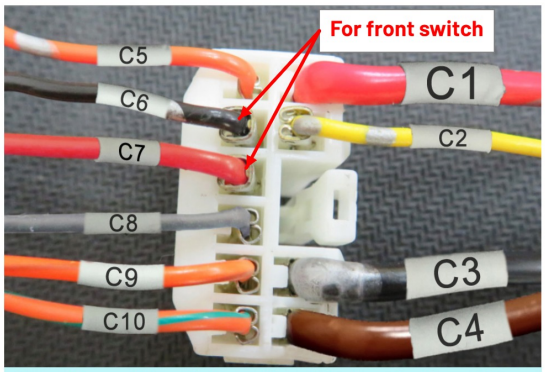
28 Initialise the system once, then test each function of the electric tailgate.



29 Reinstall all the trim panels.



(Optional) Drill a 21mm hole using the provided hole saw and fit the front switch.



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

Insert the two terminals of the front switch extension wire into the power harness connector, matching the wire labels.

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 near the driver's seat three times.
   - Press the tailgate handle switch.
   - Press the newly installed tailgate switch.
   - Press the front switch: press and hold for 4 seconds to open, or press briefly to close the tailgate.

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.

3. **Memorising the Height:**

   Open the tailgate to the desired height. Press and hold the newly installed tailgate switch, then release it when you hear a long beep. The height is now memorised.

   Tip: While the tailgate is moving, pause it, then manually push it to the ideal height.

Buzzer Sound Indicators

One Beep: The tailgate has received an open, close, or pause signal and will respond immediately.

"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 Beep: The height memory is complete.

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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