Vehicle-Specific Power Tailgate Lift System



Toyota RAV4

2013-2019

Part no. ARTRAV15

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

Kick Sensor (Sold Separately)

This kit is compatible with the Aerpro Power Tailgate Kick Sensor (part no. ARTGKS), sold separately. Once fitted under the rear bumper, it lets you open and close the tailgate with a light kick of your foot.

More information: **aerpro.com/ARTGKS**

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 front left side trim panel and door sill panel.



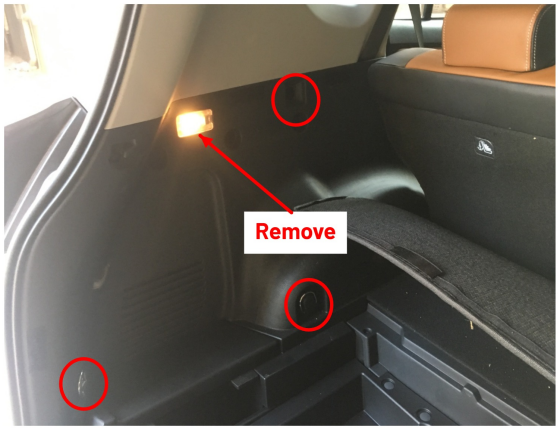
2 Remove the rear left side door sill panel.



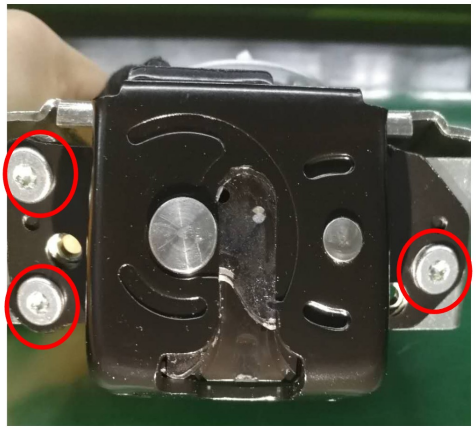
3 Remove the tailgate trim panels.



4 Take out the boot floor mat and foam storage box.



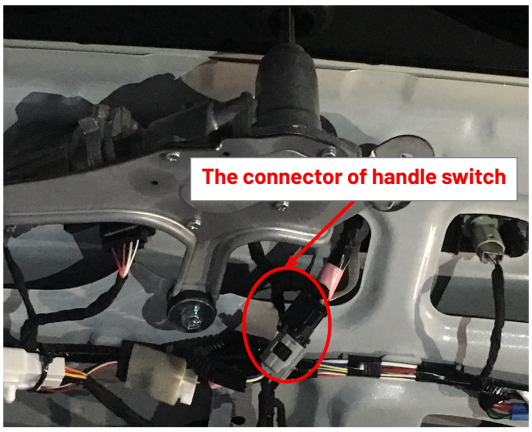
5 Remove the trim panel on the left side of the boot.



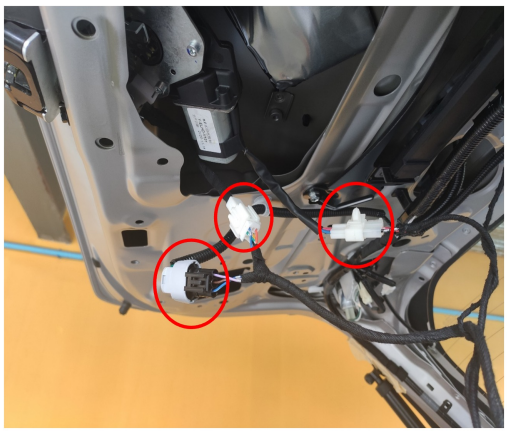
6 Remove the screws from our power latch.



7 Remove the original latch and install the power latch.



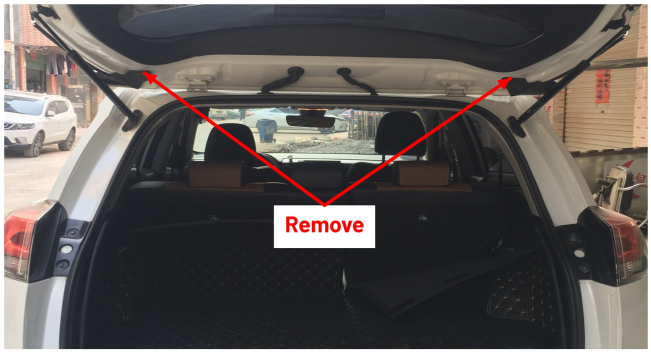
8 Connect the connectors of lock signal harness to the tailgate handle switch.



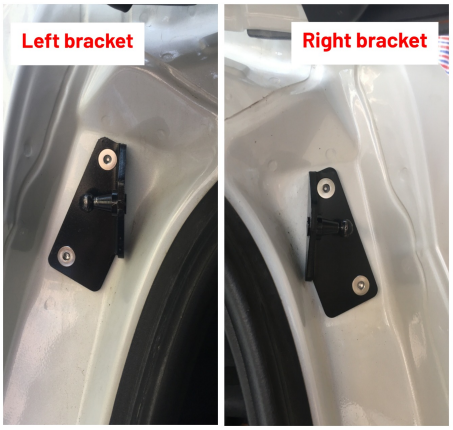
9 Connect the connectors of the lock signal harness to the power latch.



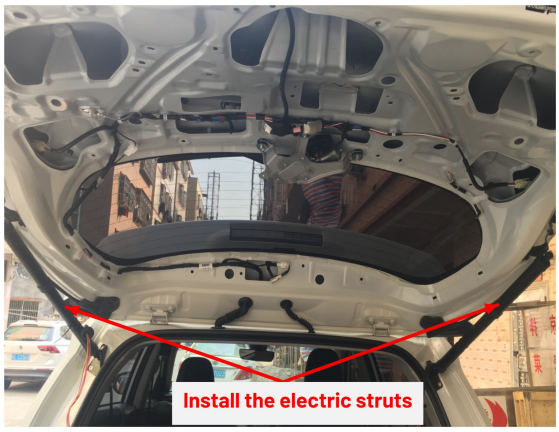
10 Connect the connector of the lock signal harness to the new tailgate switch.



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



12 Replace the left and right body brackets.



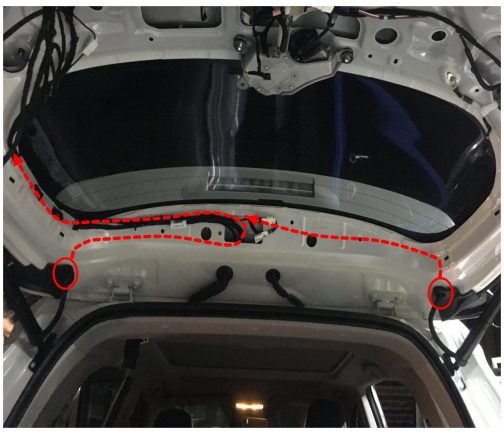
13 Install the electric struts (L for the left side, R for the right side, as indicated by the first letter of the strut code).



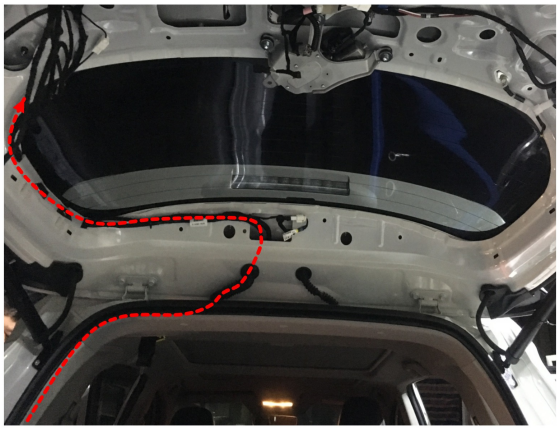
14 Thread the motor wire of the strut wire harness through the hole into the tailgate. Repeat on both sides.



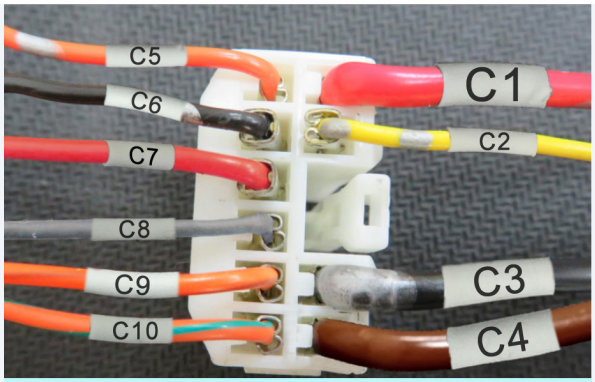
15 Leave enough rubber tubing outside so it can bend at the top of the sink. Route the wire harness as indicated to prevent it from being squeezed when the tailgate closes.



16 Route the strut wire harnesses as indicated.

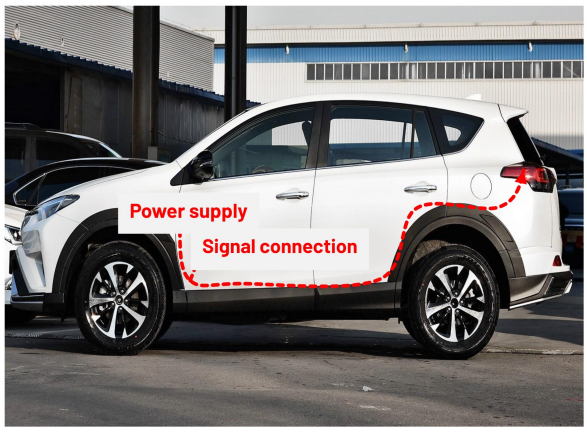


17 Thread the power harness into the tailgate. Do not connect it until the terminals have been inserted into the wire harness connector.

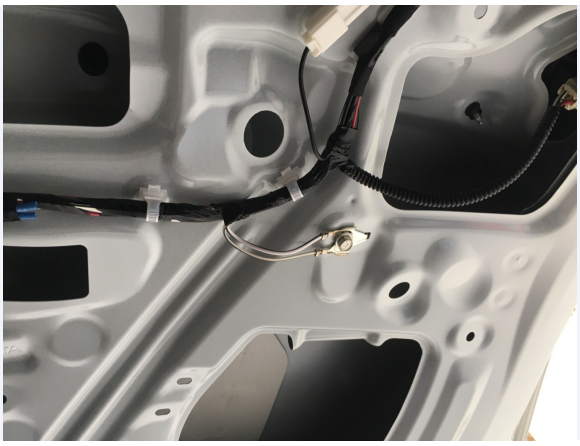


Note: For models with fewer than 10 wires, just insert them according to the corresponding label or color.

18 Insert the power harness terminals into the wire harness connector according to the diagram.



19 Route the power harness.



20 Secure the ground wire connector to the indicated grounding point on the left side of the tailgate.



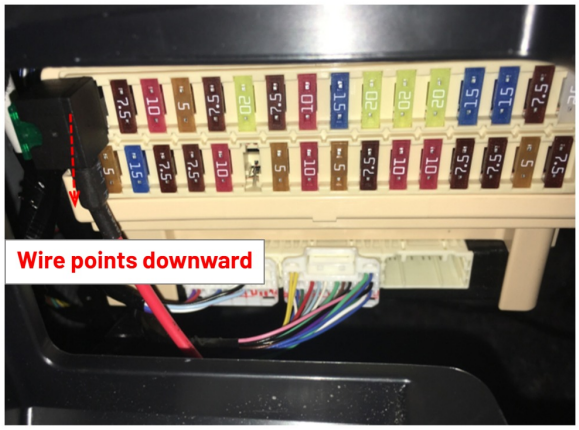
21 Connect the power harness connectors to the signal plug and socket beside the pedals.



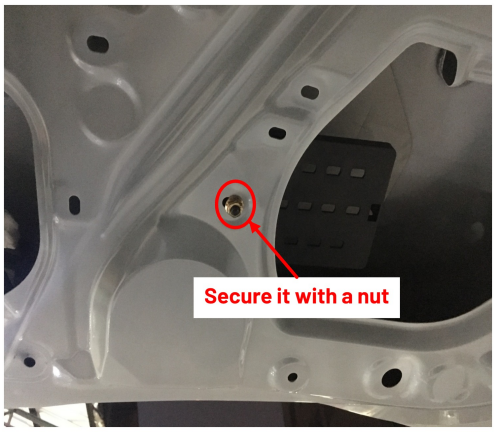
22 Install the supplied switch on the switch panel, connecting the backlight connectors behind the panel.



23 Locate the constant power fuse slot (first in the first row).



24 Move the factory fuse from the fuse box to the fuse tap, then plug the fuse tap into the fuse box. Pay attention to the wire's orientation.



25 Secure the tailgate ECU bracket at the indicated hole on the left side of tailgate.



26 Insert the strut wire harnesses①②, lock signal harness③, and power harness④ into the tailgate ECU in sequence, and then mount the tailgate ECU onto its bracket.



27 Press the new tailgate switch to open and close the tailgate once. The system will complete initialisation. Then test each function of the electric tailgate.



28 Reinstall all the trim panels.

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 in the driver's area 3 times.
   - Press the factory tailgate switch.
   - Press the newly installed tailgate switch.
   - Press the front switch: press and hold for 4 seconds to open, or press briefly to close.
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 Adjusting Closing Speed (5 Levels)

1. Press and hold the switch until you hear a single short beep.
2. Release the button; a short beep confirms the new closing speed is set.
3. Repeat this process to increase the speed by one level.

2 Adjusting Opening Speed (5 Levels)

1. Press and hold the switch until you hear two short beeps.
2. Release the button; two short beeps confirm the new opening speed is set.
3. Repeat this process to increase the speed by one level.

3 Voice Module Configuration

1. Press and hold the switch until you hear three short beeps.
2. Release the button; three short beeps confirm the voice module has entered configuration mode. (For details, see the voice module operation manual.)

4 Muting the Voice Module

1. Press and hold the switch until you hear four short beeps.
2. Release the button; four short beeps confirm the voice module is muted.

5 Setting the Maximum Opening Height

1. Press and hold the switch until you hear five short beeps.
2. Release the button; a long beep confirms the height setting is set.

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

1. Press and hold the switch until you hear the sixth short beep.
2. Release the button; a long beep followed by a short beep confirms the switch between quick and slow presses of the unlock button.

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

1. Press and hold the switch until you hear the seventh short beep.
2. Release the button; a long beep followed by two short beeps confirms the switch between double-press and triple-press of the unlock button.

8 Adjusting Braking Force (5 Levels)

1. Press and hold the switch until you hear the eighth short beep.
2. After releasing the button, you will hear a long beep sound and three short beeps indicating that the switch between pressing the unlock button twice/three times has taken effect.
3. Repeat this process to increase the braking force by one level.

9 Factory Reset

1. Press and hold the switch until you hear the ninth short beep.
2. Release the button; a long beep followed by four short beeps confirms the factory settings have been restored.

Buzzer Sound Indicators

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

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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