Vehicle-Specific Power Tailgate Lift System



Hyundai Tucson

2022-2025

Part no. ARHTCS22

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.

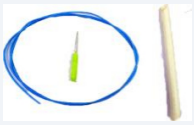
In the Box

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

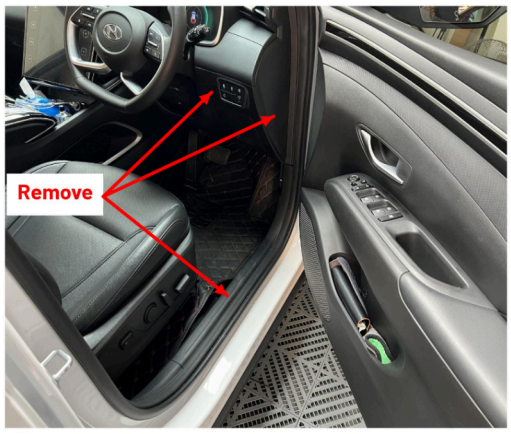
Notice

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



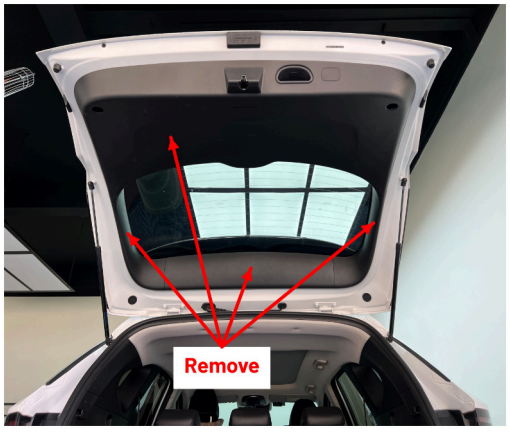
1 Remove the indicated driver's side trim panels and the door sill panel.



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



3 Remove the trim panels on the right side of the boot.



4 Remove the tailgate trim panels.



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



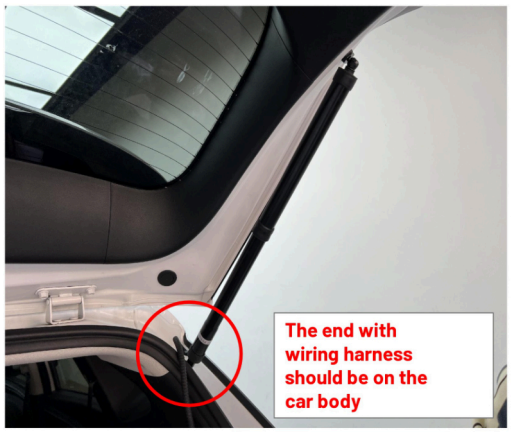
6 Replace the left body bracket, paying attention to its direction.



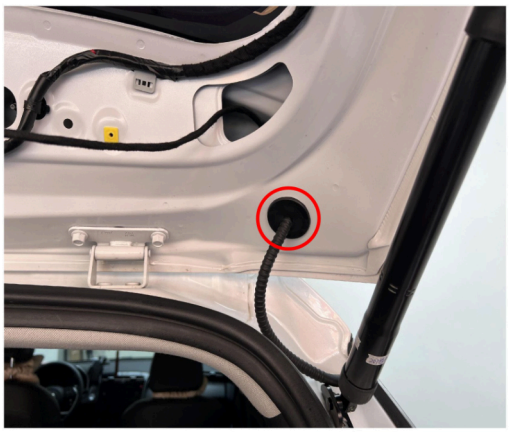
7 Replace the right body bracket, paying attention to its direction.



8 Replace the left and right tailgate ball studs.



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



10 Thread the strut wire harness through the indicated hole into the tailgate.



11 Route the strut wire harnesses as shown.



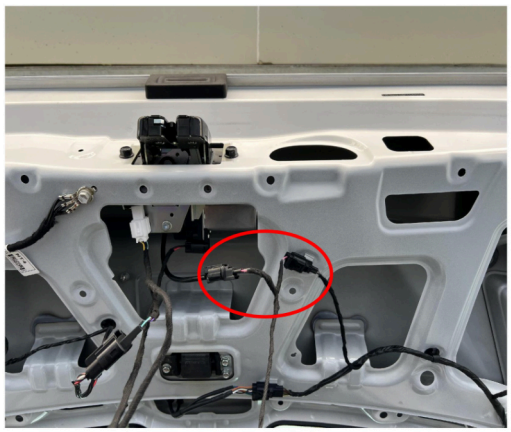
12 Remove the factory latch.



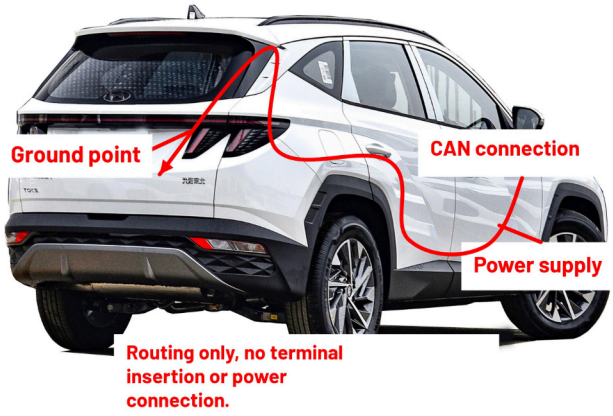
13 Connect the lock signal harness connectors to the power latch.



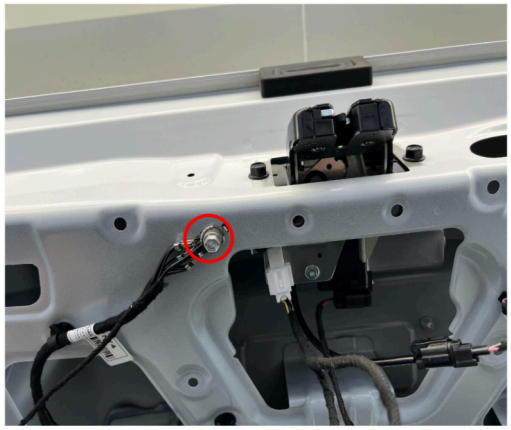
14 Install the power latch.



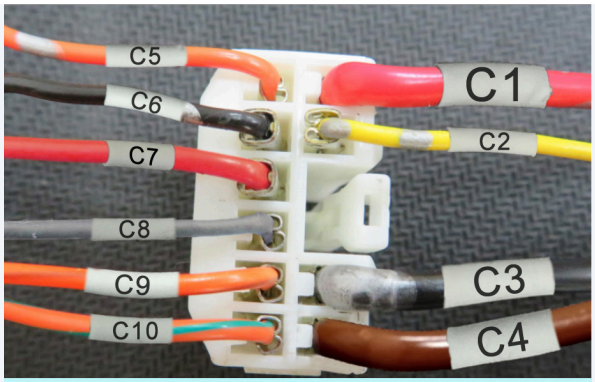
15 Connect the lock signal harness connectors to the factory tailgate switch.



16 Route the power harness as shown.

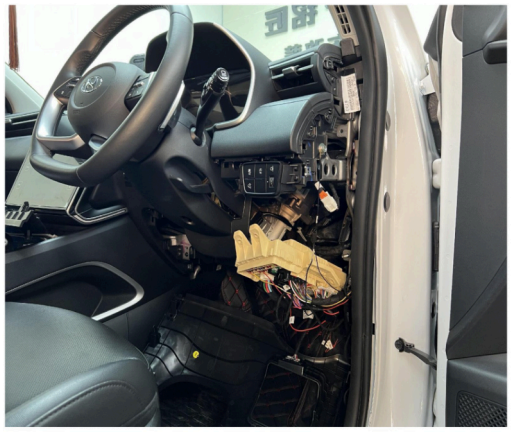


17 Secure the ground wire to the indicated grounding point on the left side of the power latch.

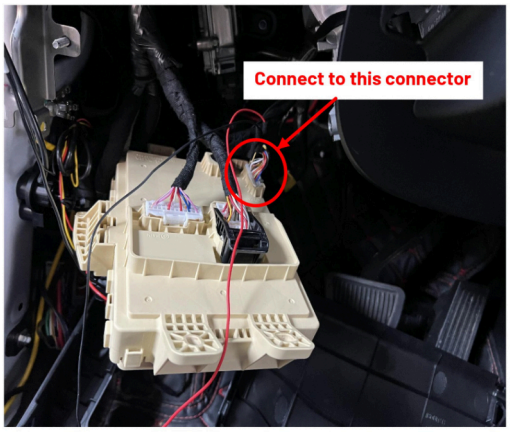


Note: For models with fewer than 10 wires, just insert them according to the corresponding label or color.

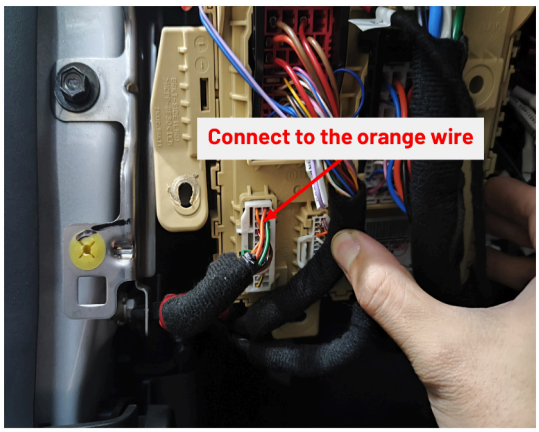
18 Insert the power harness terminals into the connector according to the diagram.



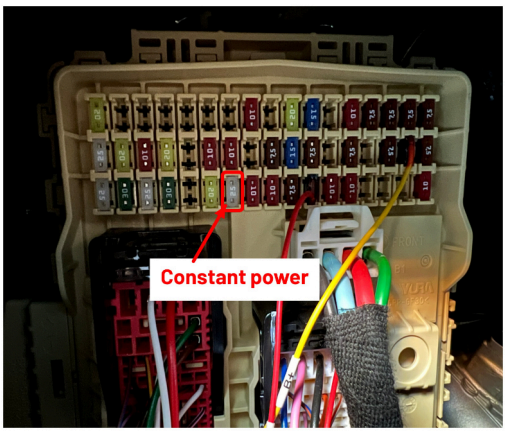
19 Remove the fuse box.



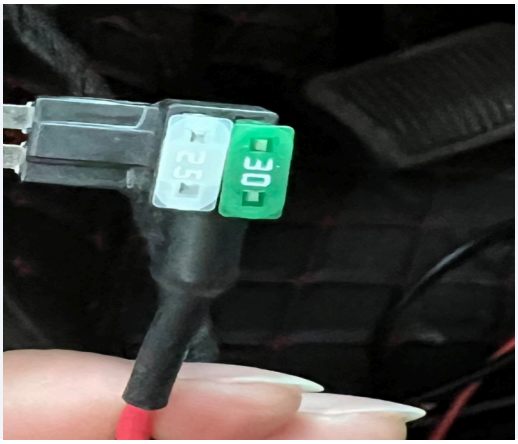
20 Connect the CAN signal connectors to the indicated connector and its socket.



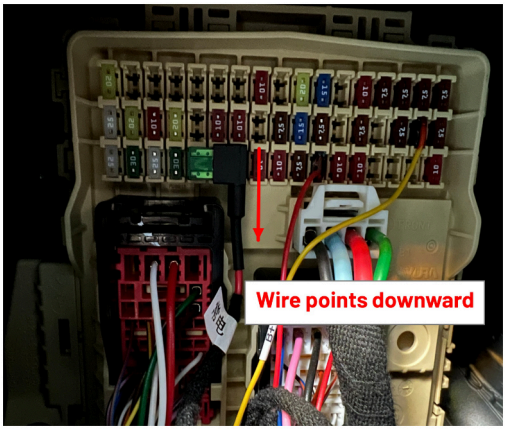
20.1 If you choose not to connect the CAN signal, connect the orange wire of the power harness to the indicated orange wire.



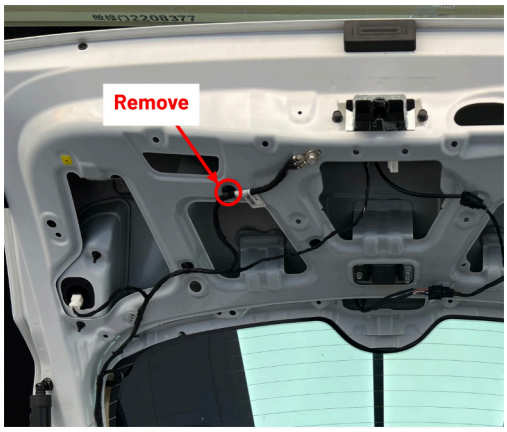
21 Refit the fuse box. The fuse slot for the power supply is shown above.



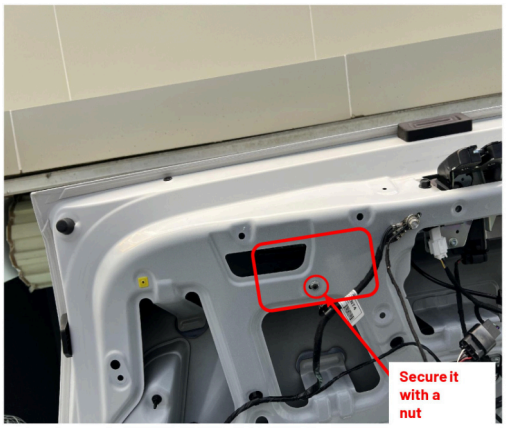
22 Move that fuse from the fuse box into the fuse tap.



23 Plug the fuse tap into the fuse box, paying attention to the direction of the wire.



24 Remove the indicated cable clip.



25 Place the tailgate ECU in the indicated location and secure it with a nut.



26 Insert the left and right strut wire harnesses ①②, the lock signal harness ③ and the power harness ④ into the tailgate ECU in sequence.



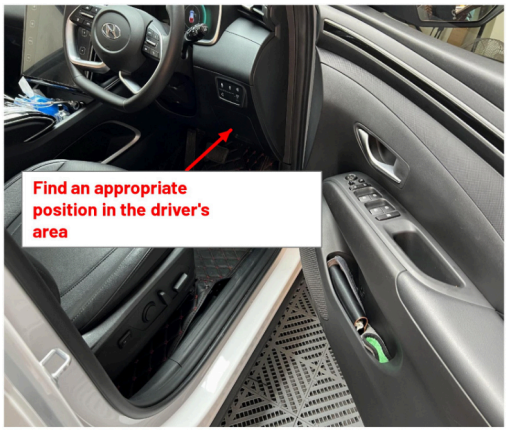
27 Press the newly installed tailgate switch once to close the tailgate and complete the system initialisation, then test each function of the electric tailgate.



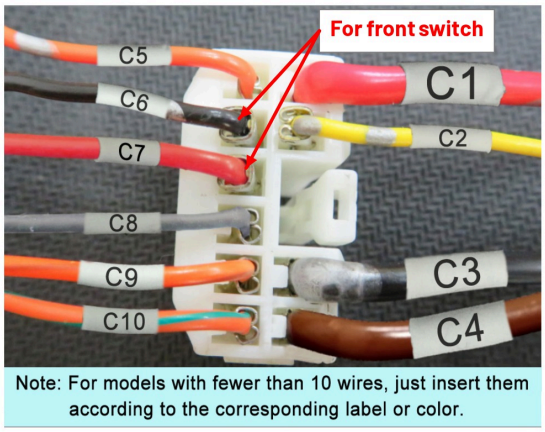
28 Remove the indicated small panel.



29 Install the new tailgate switch and reinstall all trim panels.



(Optional) Find a suitable position in the driver's area to fit the front switch.



Insert the two terminals of the front switch extension wire into the power harness connector, following 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 and hold the tailgate button on the remote key.
   - 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. (Refer to the voice module manual for details.)

4 Muting the Voice Module

1. Press and hold the switch until you hear four beeps.
2. Release the button; four 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 new height is saved.

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

1. Press and hold the switch until you hear six short beeps.
2. Release the button; a long beep followed by a short beep confirms the sensitivity has been toggled.

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

1. Press and hold the switch until you hear seven short beeps.
2. Release the button; a long beep followed by two short beeps confirms the activation sequence has been toggled.

8 Adjusting Braking Force (5 Levels)

1. Press and hold the switch until you hear eight short beeps.
2. Release the button; a long beep followed by three short beeps confirms the new braking force is set.
3. Repeat this process to increase the force by one level.

9 Factory Reset

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

Buzzer Sound Indicators

One Beep: The system has received an open, close, or pause command, and the tailgate will react 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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