Vehicle-Specific Power Tailgate Lift System



Volvo XC40

2020-2025

Part no. ARVXC420

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		Lock latch and actuator	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 panel, switch panel and door sill panel and front passenger side door sill panel.



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



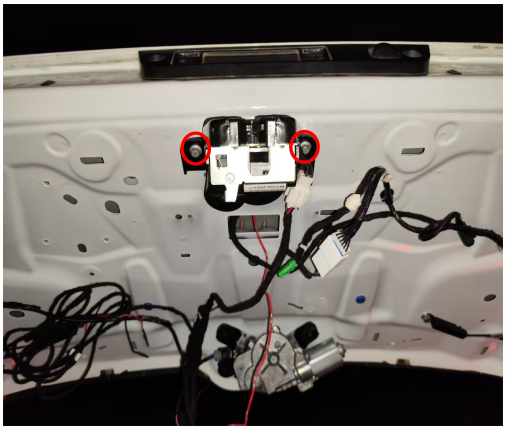
3 Remove the boot floor mat and the door sill panel.



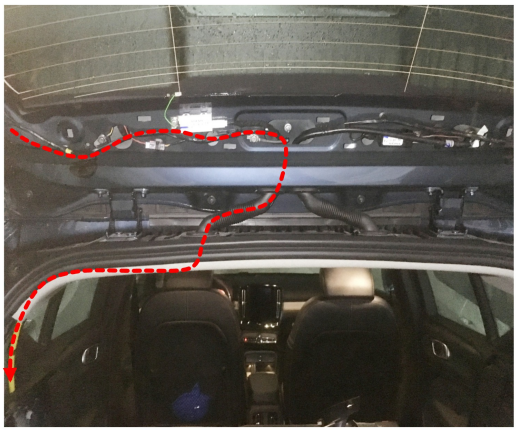
4 Remove the trim panel on the left side of the boot.



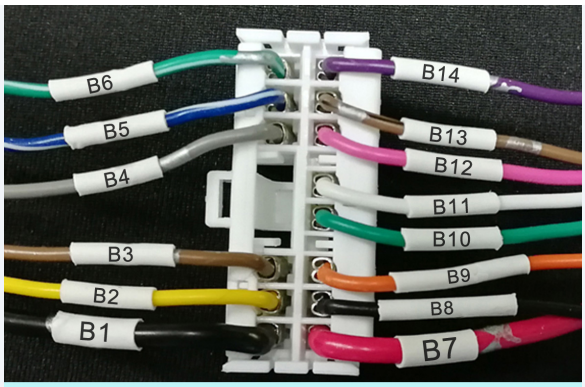
5 Remove the tailgate trim panels.



6 Remove the factory latch and install the new power latch.



7 Route the signal harness to the left side of the boot.



Note: For models with fewer than 14 wires, just insert them according to the corresponding label or color.

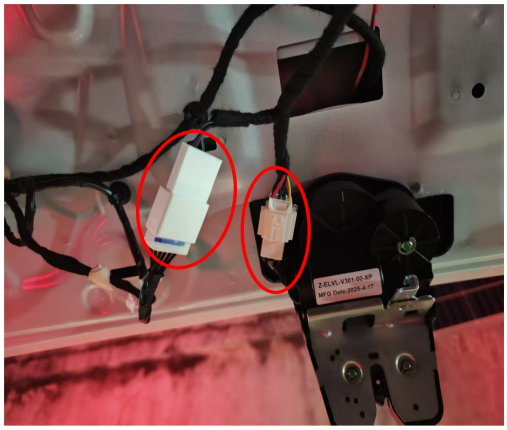
8 Insert the power harness terminals into the wire harness connector.



9 Remove the tailgate handle switch.



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



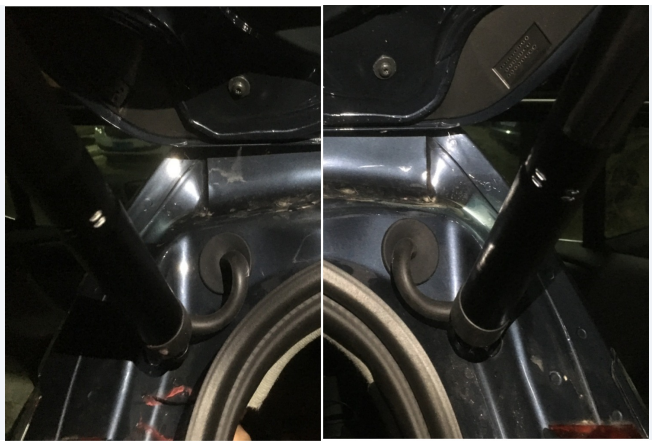
11 Connect the connector of the lock signal harness to the power latch.



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



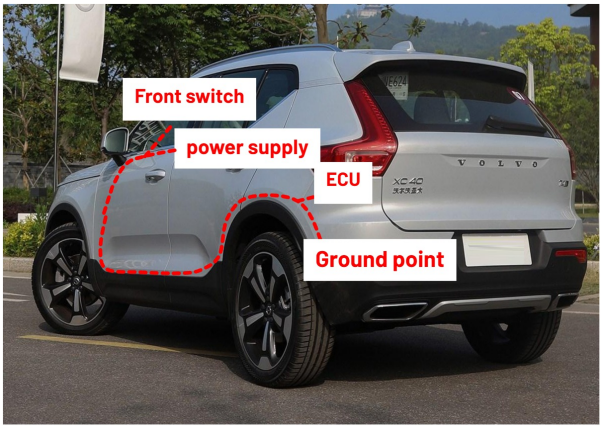
13 Install the electric struts (L for the left side, R for the right side, as indicated by the first letter of the strut code).



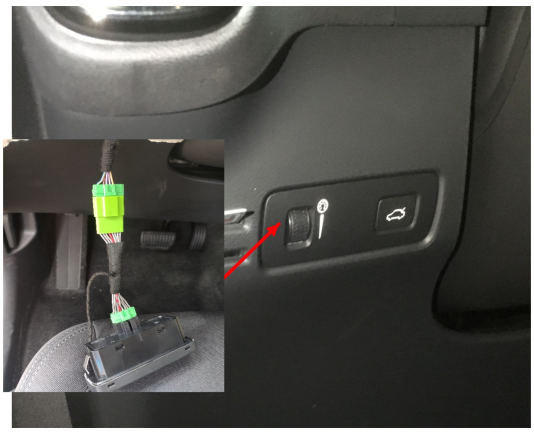
14 Thread the strut wire harnesses through the reserved holes into the vehicle body.



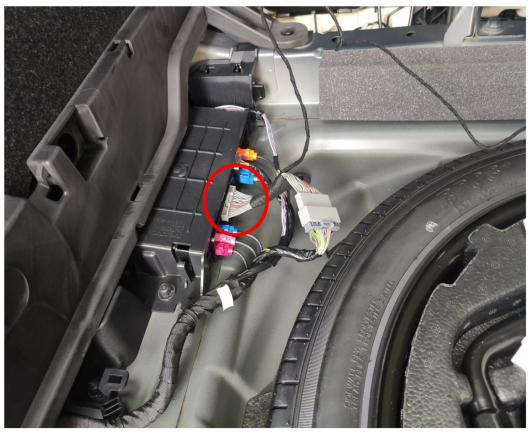
15 Route the strut wire harnesses as indicated.



16 Route the power harness to the driver's area and the left side of the boot.



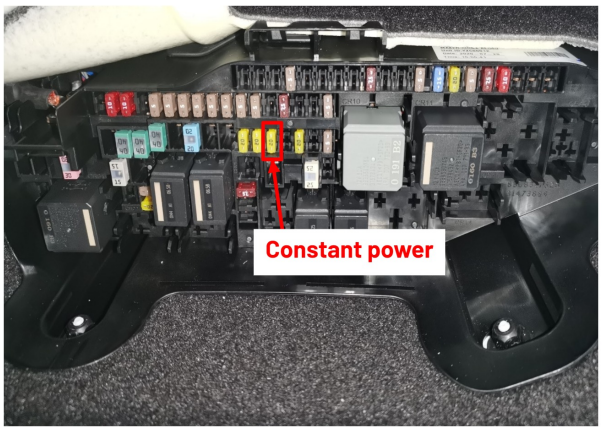
17 Connect the connectors of the power harness to the front switch.



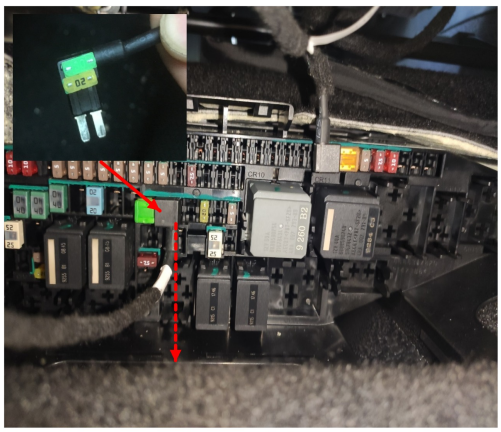
18 Connect the power harness connectors to the indicated CAN plug and its matching socket.



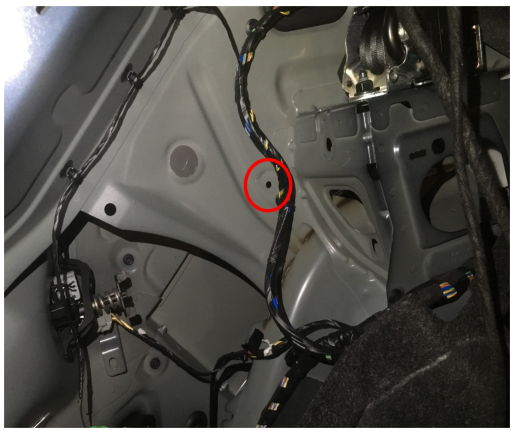
19 Secure the ground wire connector to the factory grounding point on the left side of the boot.



20 The fuse box is located under the driver's seat. The power supply fuse slot is indicated in the diagram.



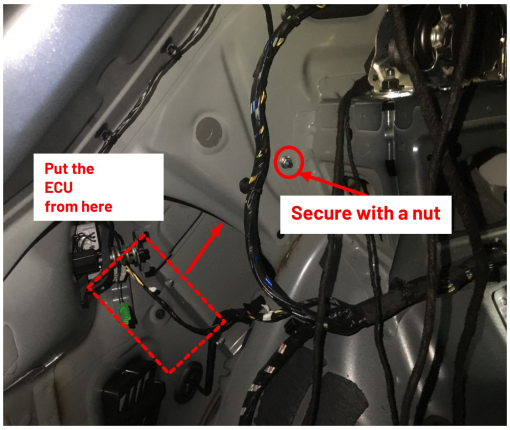
21 Remove the factory fuse from the fuse box, insert it into the fuse tap, then plug the fuse tap into the fuse box.



22 Remove the cable clip from the indicated position to make room for the tailgate ECU bracket.



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



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



25 Initialise the system, then test the tailgate's functions.



26 Reinstall all trim panels, then 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 tailgate handle switch;
   - Press the newly installed tailgate switch;
   - Press the front tailgate switch button: press 2 times (press for 1s first, release and wait for 1s, and press again for 1s).

Configuring the Tailgate Switch Settings

1 Adjusting Closing Speed (5 Levels)

1. Press and hold the switch button until hearing the first short beep sound.
2. Release the button; a short beep confirms the closing speed acceleration has taken effect.
3. Repeat this process to increase the speed by one level.

2 Adjusting Opening Speed (5 Levels)

1. Press and hold the switch button until hearing the second short beep sound
2. Release the button; two short beeps confirm the opening speed acceleration has taken effect.
3. Repeat this process to increase the speed by one level.

3 Voice Module Configuration

1. Press and hold the switch button until hearing the third short beep sound.
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 newly installed tailgate 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 button until hearing the fifth short beep sound.
2. Release the button; a long beep confirms the height setting has taken effect.

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 toggle between quick and slow presses of the unlock button has taken effect.

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 toggle between double-press and triple-press of the unlock button has taken effect.

8 Adjusting Braking Force (5 Levels)

1. Press and hold the unlock button 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 unlock button 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: An open, close, or pause signal has been received; the tailgate 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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