

# Installation Manual

Compatible Model	CVolvo CS90
Year	2018-2023



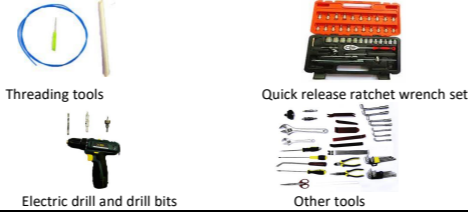
## 1. Points to note

- For safety and to ensure the proper use of product, please ask a professional technician to install. Do not disassemble and install it privately in case of damaging product and installation accidents.
- Please arrange each wiring harness according to the wiring method in this manual, be sure to tie each wiring harness to the vehicle's original wiring harness with cable ties. Make sure the wiring harnesses are not located at the fasteners or screw holes to avoid the wiring harnesses crushed by the vehicle interior trim panel buckles and screws during the installation process.
- Because some of the wiring harness terminals (as indicated by the red ellipses below) are not plugged into the wiring harness connectors during manufacture, please insert terminals into the wiring harness connector first to avoid short circuit between terminals after the wiring harnesses have been arranged, then connect other plugs of the wiring harnesses (as indicated by the blue ellipses below) with the original plugs.



- Check the function display of instrument panel before installation, whether the button of the vehicle is working properly, whether the doors and windows work properly while opening and closing, whether there are scratches on the vehicle internal and exterior surfaces; and report to the customers in a timely manner if there are any problems.
- During the process of disassembly and assembly, do not carry metal ornaments and other hard objects with you to prevent damage to the paintwork, seats and interior. Be sure to place the removed trim components properly to avoid scratching them.
- All the pictures in this manual are for reference only, vehicle models with different configurations may have different pictures, but the installation methods are the same.

## 2. Installation tools



## 3. Product list

No.	Name	QTY	Picture
①	Strut	2	
②	ECU	1 set	
③	Wiring harness	1 set	
④	Power latch	1	
⑤	Added tailgate switch	1	
⑥	Other parts (screws, brackets, etc.)	1 set	Omitted



1. Remove the indicated trim panels, door sill panel and the tailgate switch button.



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



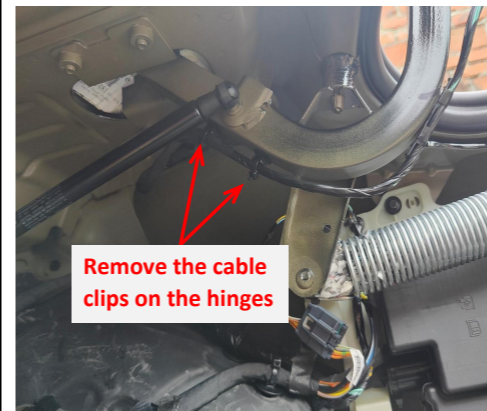
3. Remove the tailgate and hinge trim panels.



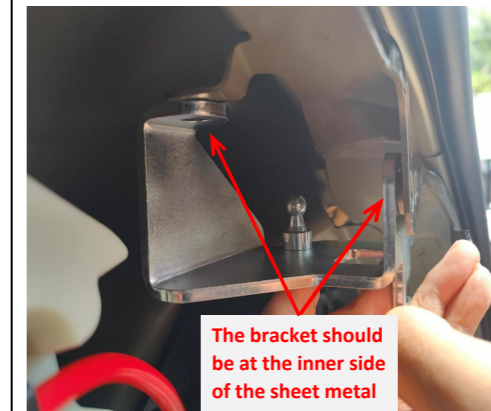
4. Remove the trunk trim panels.



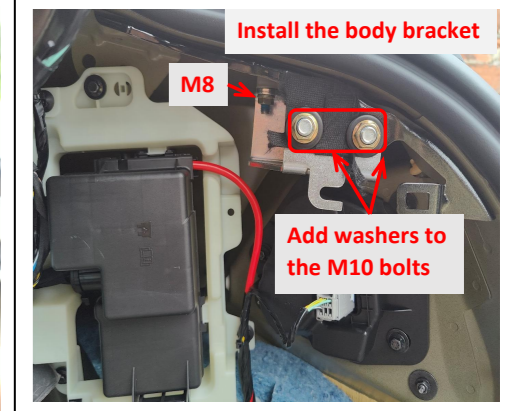
5. Remove the springs and bump stops on both sides.



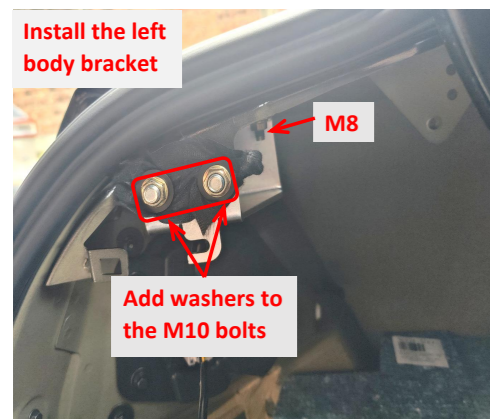
6. Remove the cable clips on the left and right hinges.



7. The bracket should be at the inner side of the sheet metal. Secure the inner side of the bracket with the M8 handle bolt first, then secure the outer side.



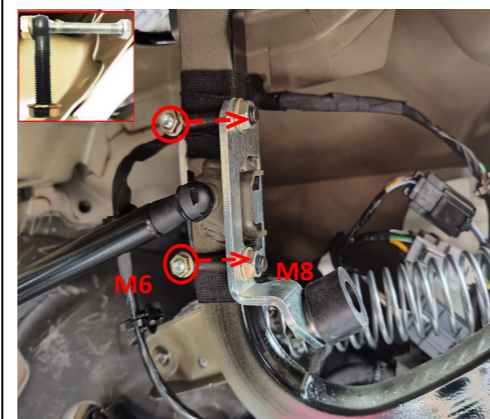
8. Install the right body bracket. Secure the M8 bolt first, then secure the M10 bolts with washers.



9. Install the left body bracket in the the way.



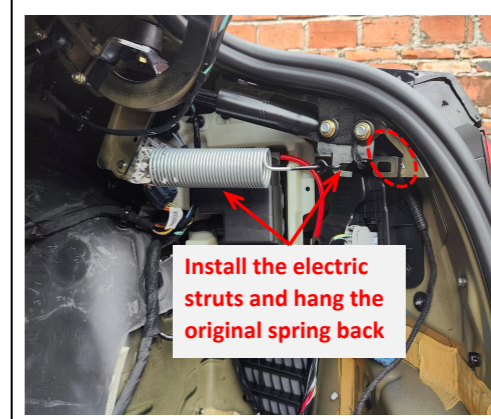
10. Install the right tailgate bracket. Secure the rubber cylinder head screw at the bump stop position and thread the M6 bolts from the inner side to the other side.



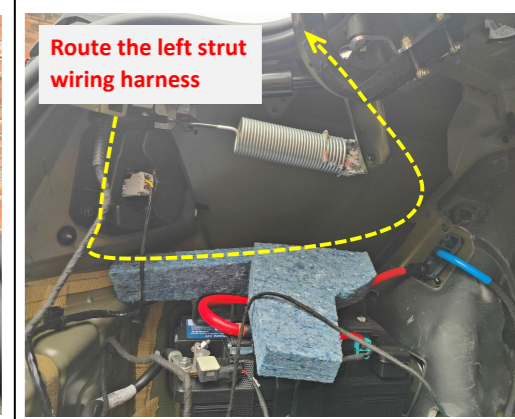
11. Insert the M6 bolt through the eye-bolt, insert the eye bolt through the bracket hole and secure them with M6 nut and M8 nut.



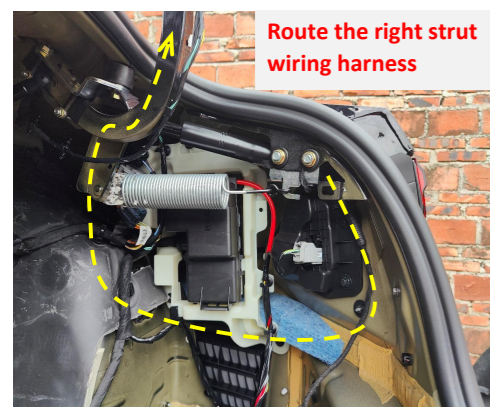
12. Install the left tailgate bracket in the same way.



13. Install the electric struts, L on the left and R on the right (the first letter of the strut code) and hang the springs back.



14. Route the left strut wiring harness to the tailgate.



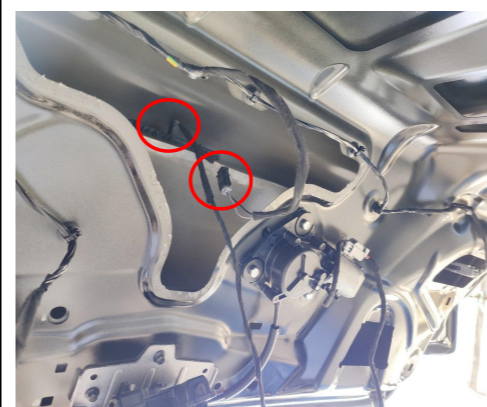
15. Route the right strut wiring harness.



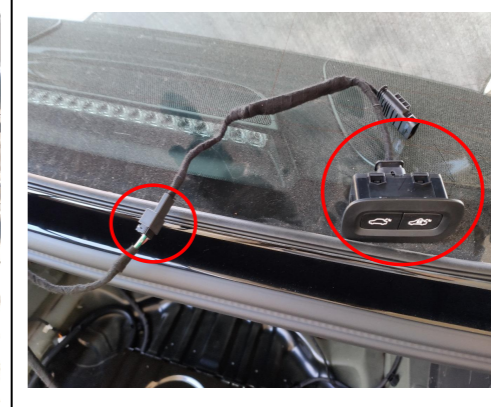
16. Replace the original latch with power latch and adjust it to the locked state.



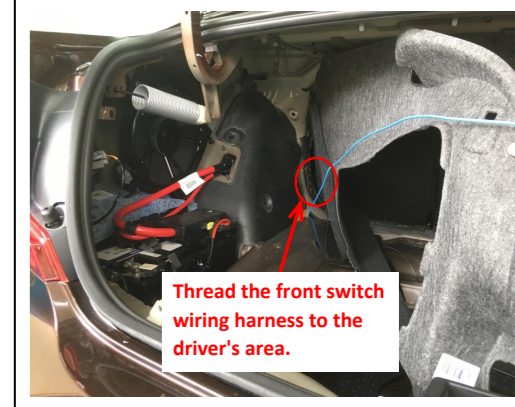
17. Connect the plugs of the lock signal harness to the plugs of the power latch.






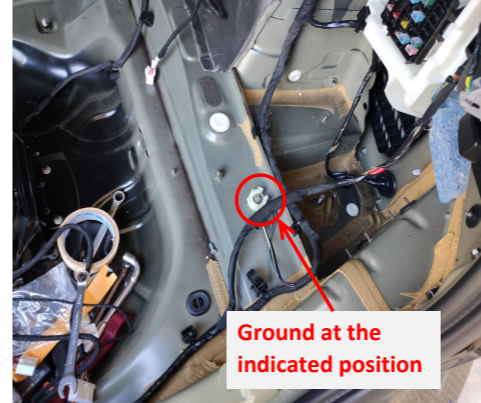
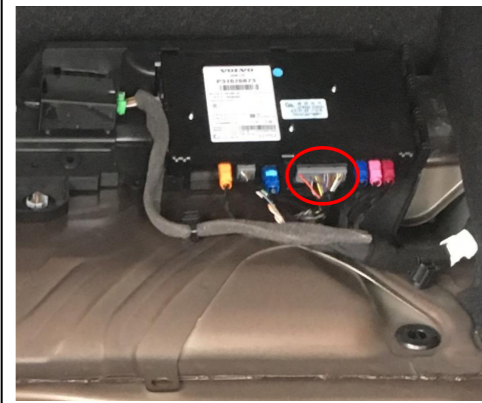


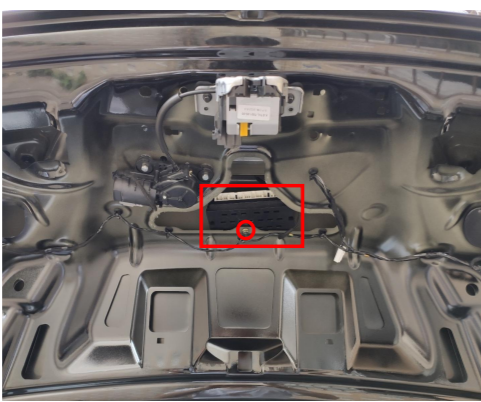

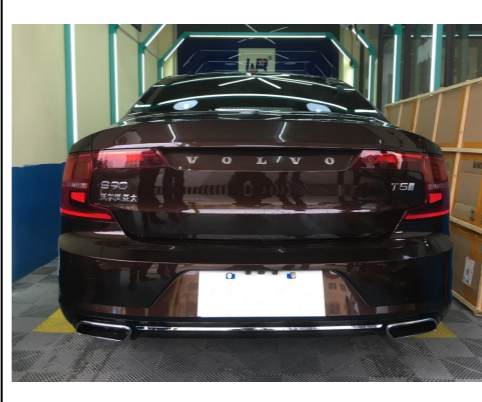


18. Connect the plugs of the lock signal harness to the plugs of original tailgate switch.



19. If there is a tailgate switch as shown above, connect it to the plug of lock signal harness. If there is no such tailgate switch, connect the provided tailgate switch to the plug of lock signal harness.



20. Thread the front switch wiring harness to the driver's area.

 <p>Thread the emergency wires to the rear left seat</p>	 <p>Front switch connection &amp; Signal Connection</p> <p>Routing only, no plugs or power connection</p>	 <p>Connect the plugs to the front switch.</p>	 <p>Ground at the indicated position</p>	 <p>Connect the signal plugs to the indicated plug and its socket. If there is no signal, thread the signal wire to the driver's area and connect to the CAN signal.</p>	 <p>Route the power harness to the tailgate.</p>
 <p>Connect to the connector for power supply</p>	 <p>Secure the ECU bracket at the indicated position.</p>	 <p>Insert the left and right strut wiring harnesses ① ②, lock signal harness ③, and power harness ④ into the ECU in sequence and mount the into its bracket.</p>	<p>1. Check if all the plugs are properly connected.  2. Manually adjust the latch to the locked state;  3. Manually close the tailgate to the position where the latch touches the lock striker;  4. Press the original tailgate switch button to open the tailgate and check whether the tailgate can be opened normally and the latch can be unlocked normally;  5. Confirm that the latch and the electric struts function well before continuing to install.</p> <p>30. Check if the power latch and the struts function well.</p>	 <p>Test each function of the electric tailgate.</p>	 <p>Stick the hole template to the indicated position and open a hole for the added tailgate switch.</p>
 <p>Fit the added tailgate switch in and reinstall all trim panels.</p>	<p><b>5. System initialization method</b></p> <ol style="list-style-type: none"> <li>Press the added tailgate switch button, and the tailgate will close automatically;</li> <li>Press the tailgate switch button outside the tailgate to open the tailgate and it will make a long sound of "beep".</li> <li>The system initialization is complete.</li> </ol> <p><b>6. Instructions for the electric tailgate</b></p> <p>1. Methods to open and close the tailgate:</p> <ul style="list-style-type: none"> <li>Press and hold the tailgate button on the remote key (open only)</li> <li>Press the unlock button on the remote key 3 times;</li> <li>Press and hold front switch button: press and hold to open and press twice to close (press for 1s, release for 1s and press again for 1s).</li> <li>Press the original tailgate switch button;</li> <li>Press the added tailgate switch button.</li> </ul> <p><b>2. Method to pause the tailgate:</b></p> <p>During the operation of the tailgate, press the button with any of the above methods, and the tailgate will be paused. Press again, and the tailgate will move in reverse.</p>	<p>3. Instructions for the added tailgate switch</p> <p>① Closing speed acceleration  Press and hold the added switch button on tailgate until hearing a beep sound. When the tailgate makes a short beep sound again, the close speed acceleration is complete. (There are five speed settings. Repeat this step once to increase by one setting.)</p> <p>② Opening speed acceleration  Press and hold the added switch button on tailgate until hearing two beep sounds. When the tailgate makes two short beep sounds again, the open speed acceleration is complete. (There are five speed settings. Repeat this step once to increase by one setting.)</p> <p>③ Height setting  Press and hold the added switch button on tailgate until hearing three beep sounds. When the tailgate makes three short beep sounds again, the height setting is complete. Tip: During the operation of the tailgate, pause the tailgate, and then push the tailgate to the ideal height.</p> <p>④ Switch between quick/slow press of the button on remote key  Press and hold the added switch button on tailgate until hearing four beep sounds. When the tailgate makes four short beep sounds again, the switch of pressing way is complete.</p>	<p>⑤ Switch between pressing the button on remote key 2/3 times  Press and hold the added switch button on tailgate until hearing five beep sounds. When the tailgate makes a long beep sound, the switch of pressing times is complete.</p> <p>⑥ Braking force increase (Retention force for open)  Press and hold the added switch button on tailgate until hearing six beep sounds. When the tailgate makes two long beep sounds, the braking force increase is complete. (There are five speed settings. Repeat this step once to increase by one setting.)</p> <p>⑦ Restore to factory settings  Press and hold the added switch button on tailgate until hearing seven beep sounds. When the tailgate makes three long beep sounds, the reset is complete.</p> <p>4. Meanings of the buzzer sound:  "Beep" once: Receiving an open/close or pause signal, the tailgate will immediately open/close or pause;  "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 sound of "beep": The height memory is complete.</p>		