

Installation Manual

Compatible Model	Buick Regal
Year	2017-2022



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 wire harness according to the wiring method in this manual, be sure to tie each wire harness to the vehicle's original wire harness with cable ties. Make sure the wire harnesses are not located at the fasteners or screw holes to avoid the wire harnesses crushed by the vehicle interior trim panel buckles and screws during the installation process.
- Because some of the wire harness terminals (as indicated by the red ellipses below) are not plugged into the wire harness connectors during manufacture, please insert terminals into the wire harness connector first to avoid short circuit between terminals after the wire harnesses have been arranged, then connect other plugs of the wire harnesses (as indicated by the blue ellipses below) with the original plugs.



2. Installation tools


Threading tools


Quick release ratchet wrench set


Electric drill and drill bits


Other tools

3. Product list

No.	Name	QTY	Picture
①	Strut	2	
②	ECU	1 set	
③	Wire harness	1 set	
④	Lock actuator	1	
⑤	Added tailgate switch	1	
⑥	Other accessories (screws, brackets, etc.)	1 set	Omitted


Remove

1. Remove the indicated trim panels from the tailgate and hinges.


Remove

2. Remove the indicated trim panels and trunk floor mat from the trunk.


Remove this door sill panel

3. Remove the front left door sill panel and lift up the floor mat to find out the fuse box.


Remove

4. Remove the rear left door sill panel.


Remove the floor mat

5. Remove the floor mat from the front passenger's position.


Remove the original lock

6. Remove the original lock.


Connect the lock signal harness with the plugs of the lock actuator

7. Connect the lock signal harness with the plugs of the lock actuator.


Manually lock the latch

8. Install the lock actuator and manually lock the latch.


Connect the lock signal harness with the plug of the original tailgate switch

9. Connect the lock signal harness with the plug of the original tailgate switch.


Hide the emergency wires

10. Route the emergency wires from the trunk to the left side of rear seats and hide them under the door sill panel.


Remove the bump stops from the left and right hinge.

11. Remove the bump stops from the left and right hinge.


Install the right tailgate bracket

12. Install the right tailgate bracket. Install the provided bump stop to secure the bracket and then install the U-bolt.


Install the left tailgate bracket

13. Install the left tailgate bracket. Both sides follow the same method.


Lift up both ends

14. Remove the fasteners from the trim panel that connects to the trunk and lift up both ends of the panel to allow bolts and nuts to pass through.


Install the right body bracket

15. Use a bolt and nut (as indicated by the red circle) to secure the bracket first.


Thread the screws and nut from the back side

16. Thread the three bolts(indicated by the yellow circles) through the bracket from the back side, use nuts to secure them and use another nut to secure the countersunk screw.


Install the left body bracket

17. Use a bolt and nut (as indicated by the red circle) to secure the bracket first.


Thread the screws and nut from the back side

18. Thread the three bolts(indicated by the yellow circles) through the bracket from the back side, use nuts to secure them and use another nut to secure the countersunk screw.


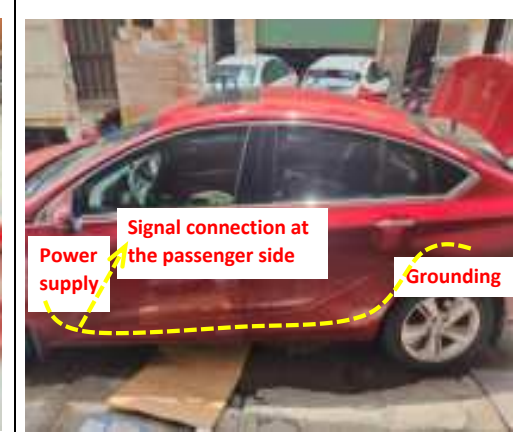




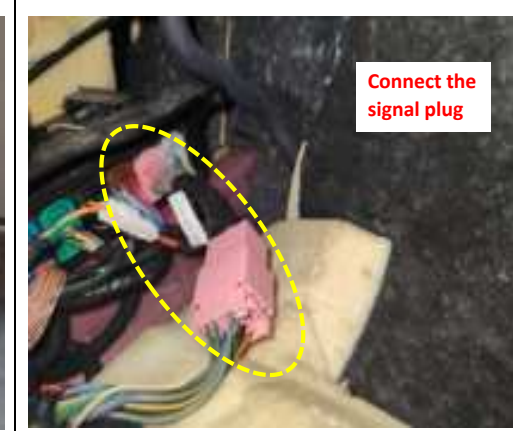
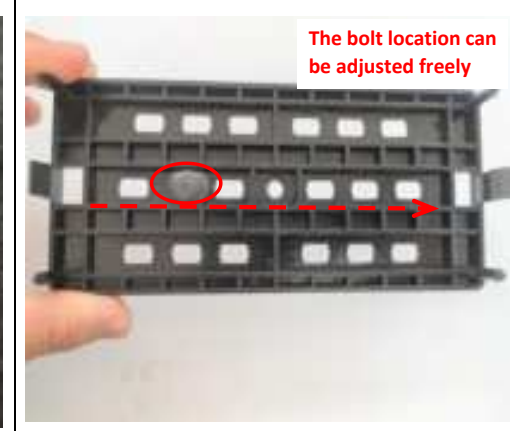
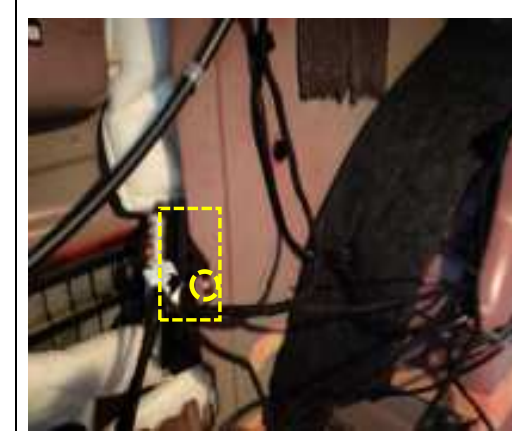


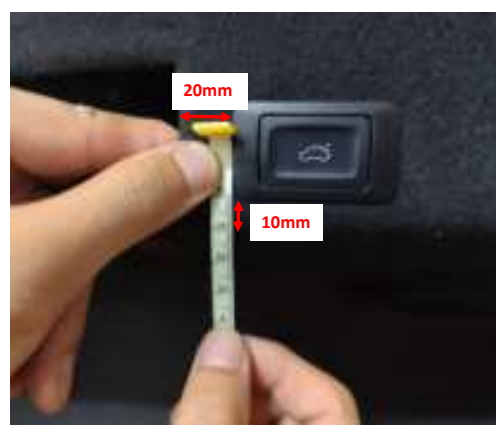




Install the right electric strut

19. Install the right electric strut (the first letter of the strut number shows the left and right) .


Install the left electric strut

20. Install the right electric strut (the first letter of the strut number shows the left and right) .

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 <p>Route the strut wire harnesses</p>	 <p>Signal connection at the passenger side</p> <p>Power supply</p> <p>Grounding</p>	 <p>Grounding</p>	 <p>The fuse slot for power supply is indicated above.</p>	 <p>Wire points downward</p>	 <p>Thread the signal wire to the passenger side</p>
21. Route the left and right strut wire harnesses to the left side of the trunk along with the original wires.	22. Route the power harness.	23. Ground at the indicated location.	24. The fuse slot for power supply is indicated above.	25. Plug the fuse tap into the fuse box and pay attention to the direction.	26. Thread the signal wire of the power harness to the passenger side.
	 <p>Connect the signal plug</p>	 <p>The bolt location can be adjusted freely</p>			 <p>Stick the hole template to the indicated location and open a hole</p>
27. Lift up the floor mat and find out the indicated box.	28. Remove the original pink plug and plug our signal plug into its socket.	29. Put a screw on the bracket and fit the ECU into its bracket.	30. Secure the ECU at the indicate location on the left side of the trunk.	31. Insert the left and right strut wire harnesses ①②, lock signal harness ③, and power harness④ into the ECU in sequence.	32. Stick the hole template to the indicated location and open a hole.
 <p>20mm</p> <p>10mm</p>	 <p>Install the panel back on the right side of the trunk, and properly cut off part of the panel</p>	 <p>Install the panel back on the right side of the trunk, and properly cut off part of the panel</p>		<p>5. System initialization method</p> <p>1. Press the added tailgate switch button, and the tailgate will close automatically;</p> <p>2. Press the tailgate switch button outside the tailgate to open the tailgate and it will make a long sound of "beep".</p> <p>3. The system initialization is complete.</p> <p>6. Instructions for the electric tailgate</p> <p>1. Methods to open and close the tailgate:</p> <ul style="list-style-type: none">●Press the unlock button on the remote key 3 times;●Press the unlock button at the driver's area 3 times;●Press the original tailgate switch button;●Press the added tailgate switch button. <p>2. Method to pause the tailgate:</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>①Closing speed acceleration (5 Settings)</p> <p>1.Press and hold the switch button until hearing the first short beep sound</p> <p>2.After releasing the button, you will hear a short beep, indicating that the closing speed acceleration has taken effect.</p> <p>3.Repeat this step once to increase by one setting.</p> <p>②Opening speed acceleration (5 Settings)</p> <p>1.Press and hold the switch button until hearing the second short beep sound</p> <p>2. After releasing the button, you will hear two short beeps, indicating that the opening speed acceleration has taken effect.</p> <p>3. Repeat this step once to increase by one setting.</p> <p>③Settings of the voice module</p> <p>1.Press and hold the switch button until hearing the third short beep sound.</p> <p>2.After releasing the button, you will hear three short beeps, indicating that the voice module has entered configuration mode. (For details, see the voice module operation manual)</p> <p>④Block the voice module</p> <p>1.Press and hold the switch button until hearing the fourth beep sound.</p>
33. Connect the plug of the lock signal harness with the added tailgate switch after it is fit into the hole.	34. Install the panel back on the right side of the trunk, and properly cut off part of the panel that interfere with the operation of the strut.	35. Install the panel back on the right side of the trunk, and properly cut off part of the panel that interfere with the operation of the strut.	36. Install all trim panels back, open and close the tailgate once to initialize the system and then test each function of the electric tailgate.		
<p>2.After releasing the button, you will hear four short beeps indicating that the voice module has been blocked.</p> <p>⑤Height setting</p> <p>1.Press and hold the switch button until hearing the fifth short beep sound.</p> <p>2.After releasing the button, you will hear a long beep sound indicating that the height setting has taken effect.</p> <p>⑥Switch between quick/slow press of the unlock button on remote key</p> <p>1.Press and hold the added tailgate switch button until hearing the sixth short beep sound.</p> <p>2.After releasing the button, you will hear a long beep sound and a short beep sound indicating that the switch between quick press and slow press of the unlock button has taken effect.</p> <p>⑦Switch between pressing the unlock button twice/three times</p> <p>1.Press and hold the switch button until hearing the seventh short beep sound.</p> <p>2.After releasing the button, you will hear a long beep sound and two short beeps indicating that the switch between pressing the unlock button twice/three times has taken effect.</p>	<p>⑧Braking force increase (5 Settings)</p> <p>1.Press and hold the switch button until hearing the eighth short beep sound.</p> <p>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.</p> <p>⑨Restore to factory settings</p> <p>1.Press and hold the switch button until hearing the ninth short beep sound.</p> <p>2.After releasing the button, you will hear a long beep sound and four short beeps indicating that the restoration to the factory setting has taken effect.</p> <p>4. Meanings of the buzzer sound:</p> <p>"Beep" once: Receiving an open/close or pause signal, the tailgate will immediately open/close or pause;</p> <p>"Beep" twice: The tailgate has been fully opened or closed;</p> <p>"Beep" three times: The resistance during opening or closing the tailgate is too large, and the intelligent anti-pinch has been turned on.</p>				