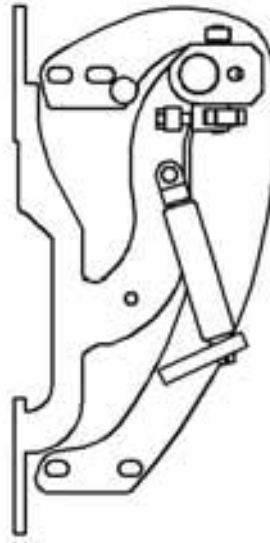




# **LINCOLN TOWN CAR INSTRUCTIONS**

*US PATENT #6,808,223 & #6,845,547*



**THIS KIT INCLUDES:**

- 16 M8-1.25X30MM BOLTS WITH WASHERS
- 2 SHOULDER BOLTS WITH WASHERS
- 2 PINS
- RIGHT AND LEFT HINGE ASSEMBLY
- 2 SHOCKS 710 PSI

**TOOLS REQUIRED FOR INSTALLATION:**

	<ul style="list-style-type: none"> <li>➤ AIR RACHET, GRINDER AND CUTTER.</li> </ul>
	<ul style="list-style-type: none"> <li>➤ 7MM, 8MM, 10MM, 11MM, 13MM, SOCKETS AND EXTENSION.</li> </ul>
	<ul style="list-style-type: none"> <li>➤ FORK AND PHILLIP'S SCREW DRIVERS</li> </ul>
	<ul style="list-style-type: none"> <li>➤ SPACERS FOR THE DOOR GAP.</li> </ul>
	<ul style="list-style-type: none"> <li>➤ 3/16 ALLEN WRENCH</li> </ul>
	<ul style="list-style-type: none"> <li>➤ 1/4 TORX BIT</li> </ul>
	<ul style="list-style-type: none"> <li>➤ 9/16 WRENCH</li> </ul>
	<ul style="list-style-type: none"> <li>➤ LOCKTITE RED</li> </ul>

***OTHER TOOLS MAY BE NEEDED DEPENDING ON YOUR VEHICLE.***

**(Note: The pictures on the manual are for reference only they may not match your vehicle.)**

1) Disconnect the battery.

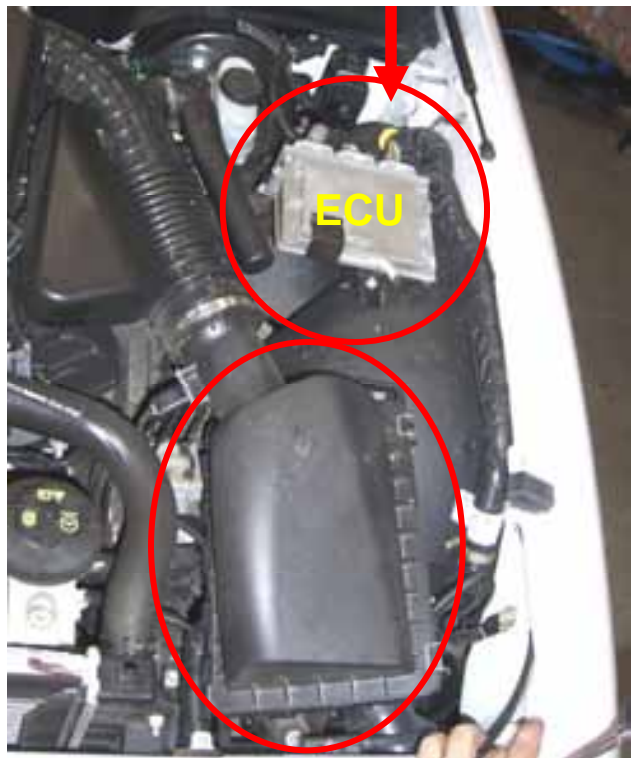
2) Remove the hood:

Open the hood and remove the two hood shocks and the (4) 13mm (2 on each side) bolts securing the hood.



3) Remove fender:

(Driver's side) You will have to loosen or remove the air filter housing and the ECU unit, to remove the bolts securing the fender to the body also note that there will be cables attached to the inner part of the fender you will have to remove all the wire clips from the fender.



(Passenger's side) You will have to loosen or remove the windshield water reservoir, fuse box, battery assembly and all the cables and houses attached to the inner fender body.





Remove all 10mm bolts from the wheel well.



Remove the front plastic cover that is covering the headlights.

Remove the (3) 10mm bolts securing the headlight to the body and disconnect the wire harnesses.



*Hint: For easier installation remove the front bumper.*

Remove all the bolts securing the fender to the bumper and the body.



Remove the (2) 10mm bolts located at the bottom of the door, securing the fender to the chassis.



Note: one of the bolts securing the fender to the body goes through the body you will need to remove the foot trim and the kick plate to gain access to the 10mm nut securing the fender.



Remove all the bolts from the top of the fender including the (1) 10mm bolt located under the plastic cover at the bottom of the windshield.



Carefully remove the fender making sure that there is nothing attached to the fender.

**4)** You will need to more wire slack:  
You will need to remove the door panel to gain extra wire slack.

Remove the covers and screws located under the covers.



Pull on the door panel and carefully disconnect all the wire harnesses.



After removing the door panel, pull on the bottom of the protective film and undue (3) plastic wire clips as shown.



These will give you the extra wire slack necessary for the new VDI system to open.

**5)** Close door and use painter's tape to secure the door in preparation for factory hinge removal.

You will need to remove the factory wire boot from the body of the car, cut in half and remove the half that goes to the body.

Use a 13mm socket to remove the factory hinges.



*Hint\* (You can make your spacer out of paint sticks and about 8-10 turns of blue painters tape)*

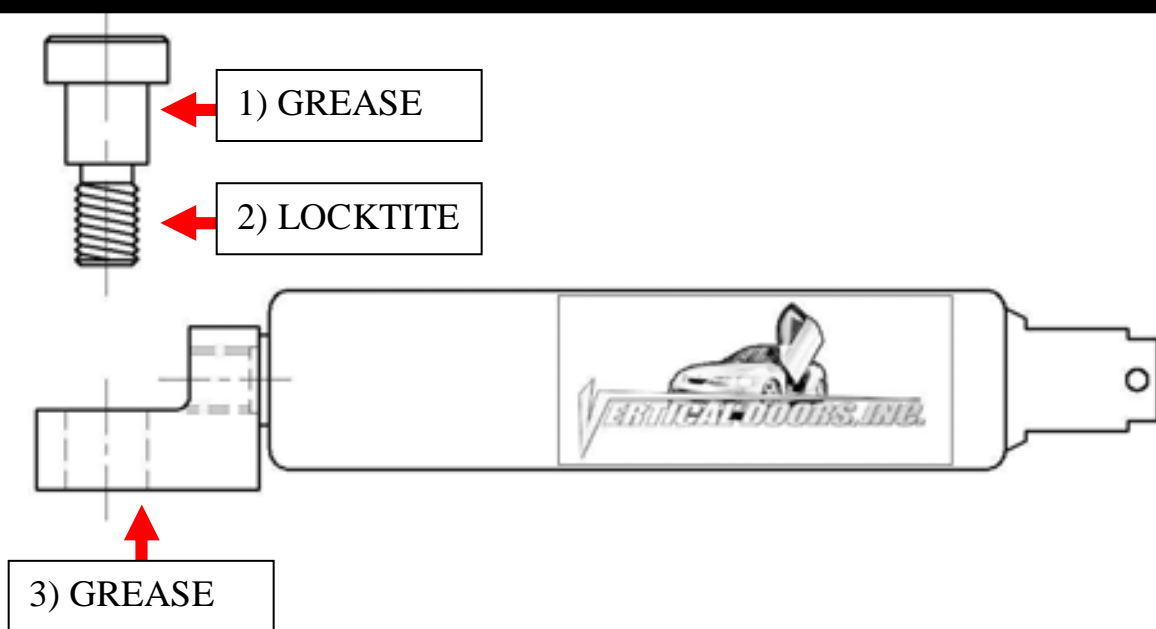
**6)** Install new Vertical Doors Inc. system:

The new Vertical Doors Inc. system should sit flat against apron to work properly.

*Hint\* Tighten the bolts on the door first and then install the bolts on the body.*







**\*IMPORTANT STEP: DO NOT SKIP THIS STEP. THIS STEP IS CRUCIAL IN YOUR INSTALLATION PROCESS, IF THIS STEP IS NOT COMPLETED WHEN INSTALLING THE VERTICAL DOOR KIT; ALL WARRANTIES ARE VOIDED, AND MAY CAUSE FUTURE PROBLEMS WITH YOUR VERTICAL DOOR SYSTEM.**

1<sup>ST</sup>, make sure you put grease on the body of shoulder bolt where the arrow is pointing.

2<sup>ND</sup>, make sure you put red Locktite, where the arrow is pointing, on thread of shoulder bolt.

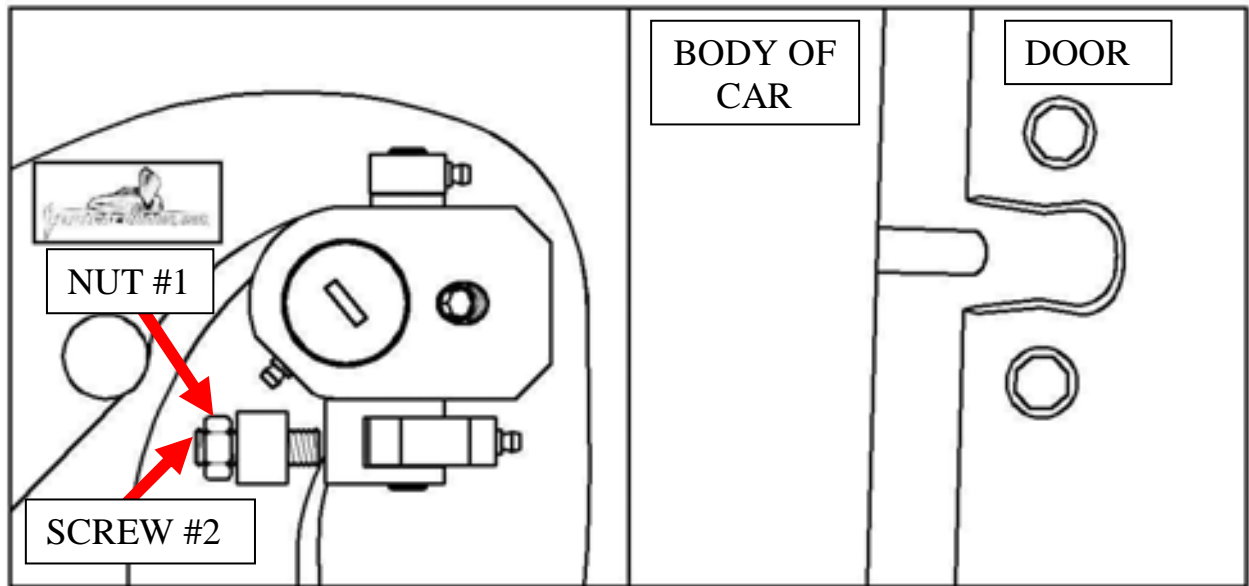
3<sup>RD</sup>, make sure you put grease on the bottom side of the shock end.



**WARNING! THE USE OF ANY TYPE PLYERS, PAINT OR FOREING MATERIALS ON THE SHOCK'S BODY OR SHAFT WILL VOID THE WARRANTY.**

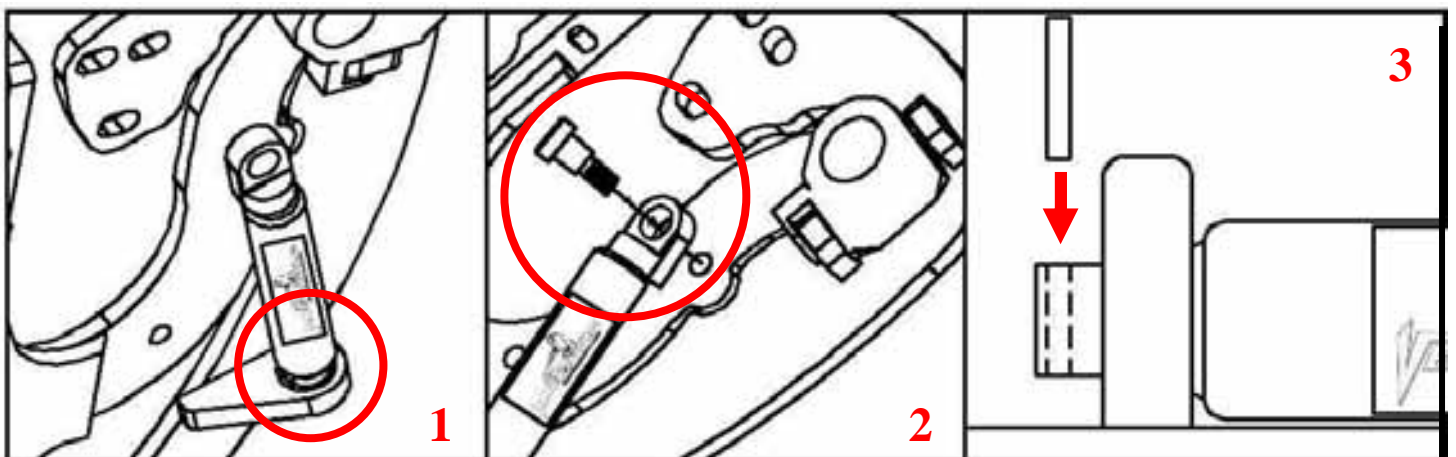
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7) Once hinge is locked in place, break nut #1 then turn Allen set screw #2 on fig until it hits the block then open the door and continue to adjust until the door matches with the striker, open and close door making sure it closes like factory.



*Hint\*(leave #1 nut loose until shock is installed Allen set screw will have to be re-adjusted after shock is installed.*

8) Install the shock.

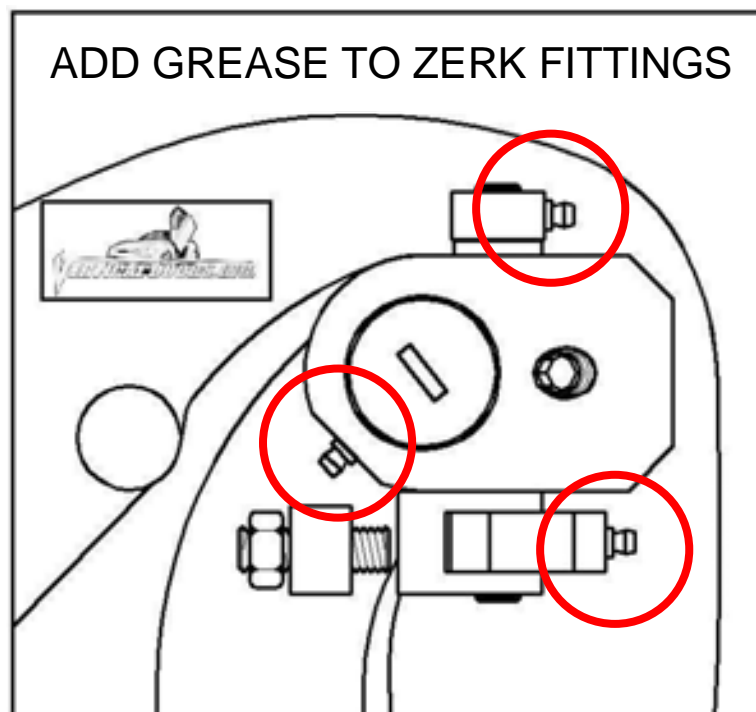
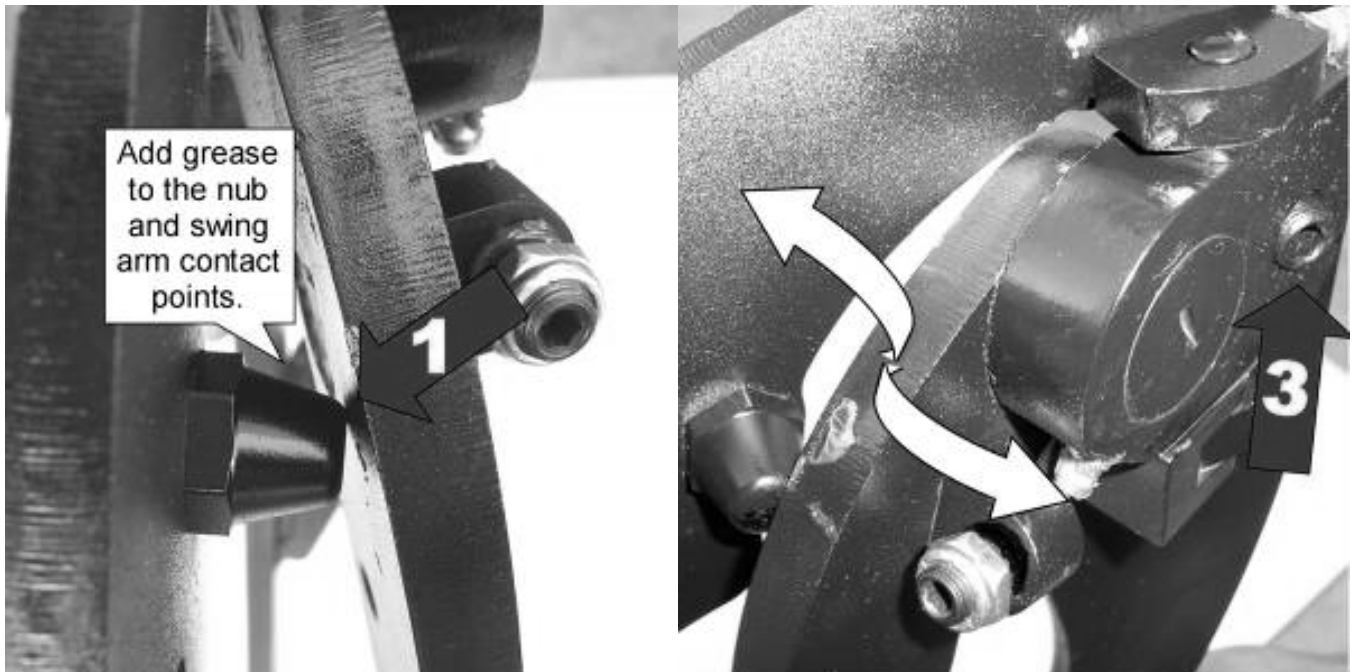


*Hint\* (You will need a helper to raise the door). (Slip the spherical rod mount into the spherical ball bearing (1). Using a 1/4 Allen wrench, tighten the screw into the swing arm (2). After the shock is installed secure it by installing the pin in the bottom shock end (3).*



9) After shock is installed re-install door panel and lift the door. Adjust door opening screw #3 clockwise until distance between nub and swing arm is enough so that the swing arm moves up and down freely.

*Hint\* (Fine tune the Allen Adjustment screw (#2) to realigned striker with door. After the door is align test door by opening and closing, lifting and lowering door several times.*

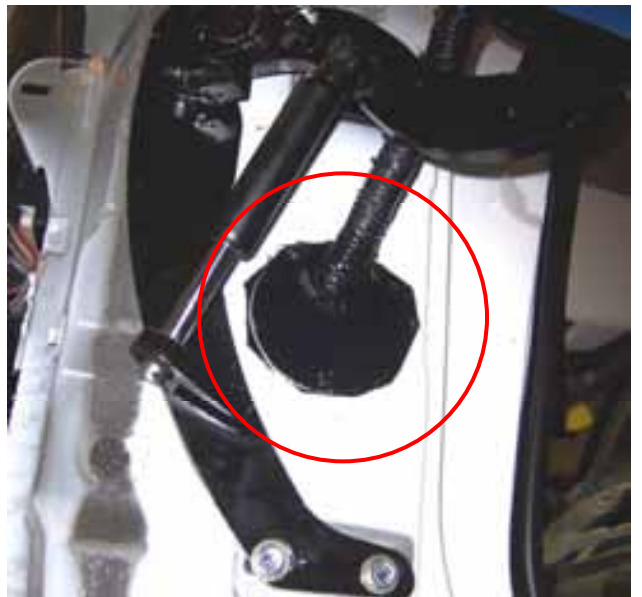


**Note: Do not install fender until the adjustment of the door is accurate, and the set screw is tightly secure. Also make sure everything is tight, adjustment is set and everything is Locktite.**

**10)** Modify factory wire loom:  
After cutting the boot in half raise the door and add wire loom to protect the exposed wires.



**11)** Use the Included cap to cover the hole.



**12)** Cut the inner lip of your fender to make room for the new Vertical Doors hinge. Note: After you have cut the fender use a sander or grinder and make sure the surface is completely flat.



**13)** Close the door and replace the fender by reversing step 3 and 2.

**14)** You will have to trim the bottom edge of the door from the middle door trim down. Just grind it little by little until the door clears the fender.



**15)** For the other side just follow steps 2-14.

*Hint\*(Make sure the electrical wires don't get pinched enough to damage wires)*