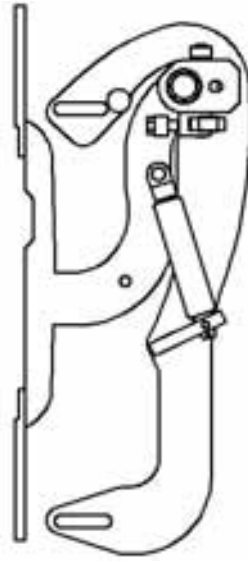
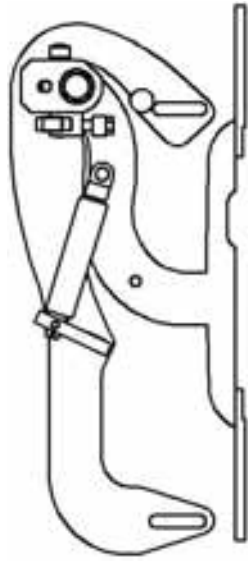




# **NISSAN TITAN 2006**

## **INSTRUCTIONS**

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



**THIS KIT INCLUDES:**

- 8 M8-1.25X30MM BOLTS WITH WASHERS
- 2 SHOULDER BOLTS WITH WASHERS
- 2 PINS
- RIGHT AND LEFT HINGE ASSEMBLY
- 2 SHOCKS 705 PSI
- 8 NUTS WITH WASHERS

**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.  
"Installers with experience recommended"**

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

1) Disconnect the battery.

2) Remove fender:

Remove all the screws from the wheel well.



Remove the guard cover and the bolts securing the fender to the chassis.



Once all the bolts have been removed from the wheel well, pull back on it and remove the bolt securing the fender to the bumper and body.





Use the fork to pry the fender from the headlight trim, this will allow you to pull them apart.



Use the fork to pull on the plastic cover at the bottom of the windshield. Remove (1) 10mm bolt securing the fender to the body.



Open the door and remove (1) 10mm bolt located by the factory hinge.



With the door open remove (1) 10mm bolt located at the bottom of the windshield pillar, securing the fender to the body.



Now remove the 10mm bolts at on top of the fender, including the 13mm bolt.

At this point you will be able to carefully remove the fender.



**3)** Remove the door catch:  
Open the door and remove bolts from the body and from the door.  
Push the door catch inside the door.

You will need to remove the door panel to retrieve the door catch.



Use the fork to remove all the covers and fasteners on the door panel. You will have to remove the control panel.

After removing the arm rest you will find one 10mm bolt securing the door panel to the door. Use the fork to disconnect all mechanical cables and electrical harnesses.



After removing the door panel, you will be able to remove the speaker and gain access to the door catch through the speaker hole. After removing the door catch, replace the speaker and door panel.



**4)** You will need to more wire slack:  
Disconnect the wire harnesses from the body and cut the wire boot in half.



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

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 about a 1/16 thicker than the factory gap.)*



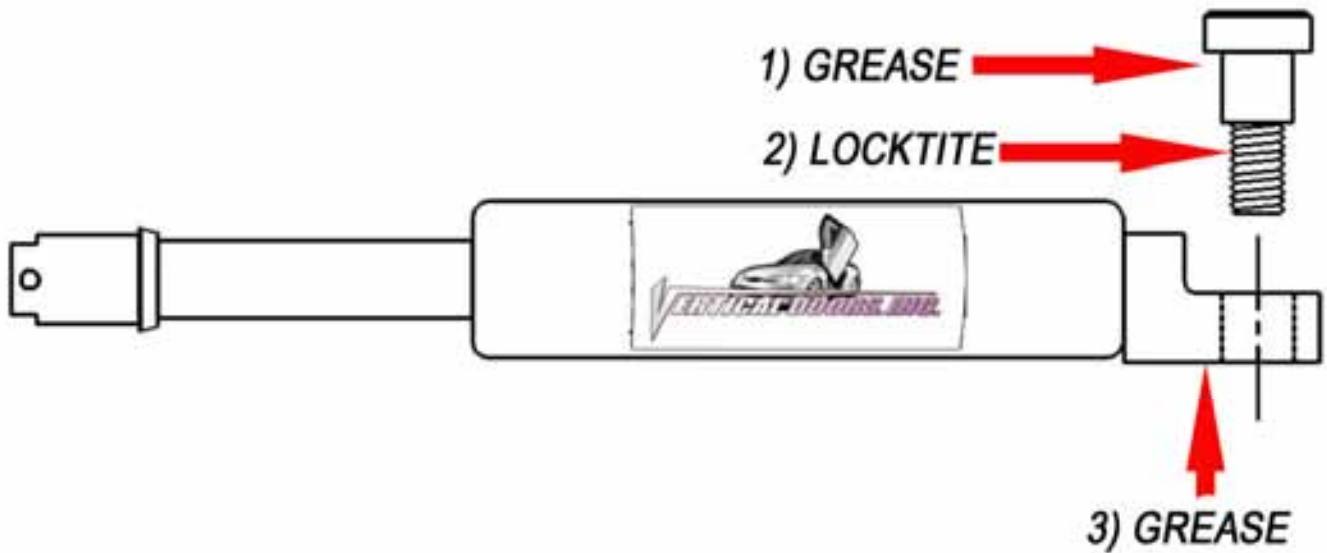
*Insert the spacers after removing the factory door hinges.*

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

Make sure the new VDI system sit flat against apron.

*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.**

*1ST, make sure you put grease on the body of shoulder bolt where the arrow is pointing.*

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

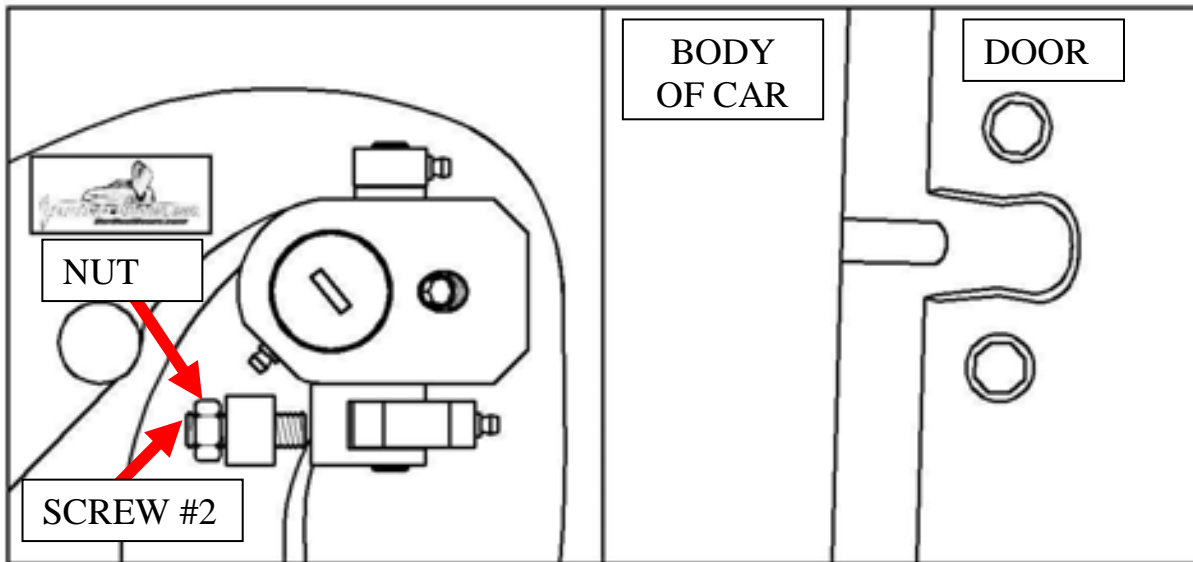
*3RD, make sure you put grease on the bottom side of the shock end.*



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

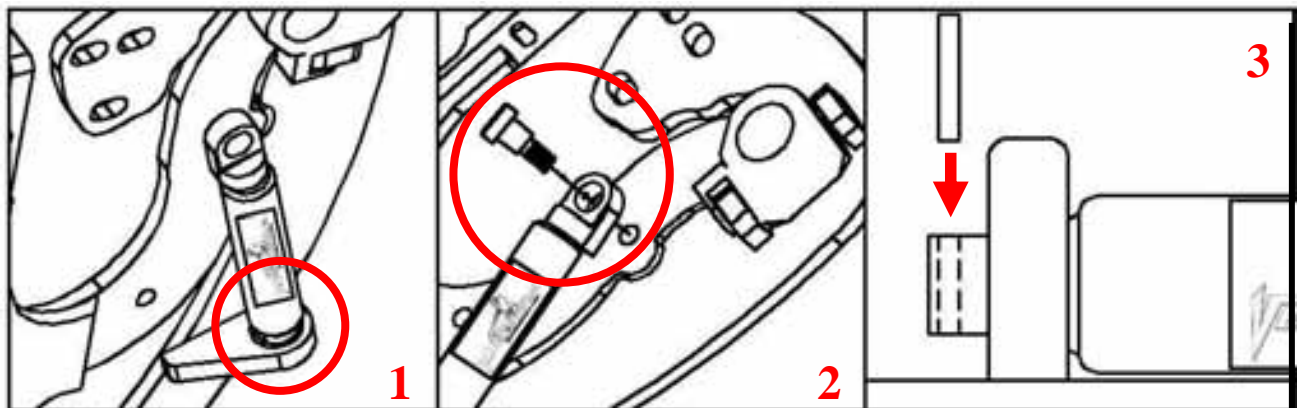
7) Once hinge is locked in place, break nut #1 then turn Allen set screw #2 on fig until it hits the block then open the door and continue to adjust until the door matches with the striker, open and close door making sure it closes like factory.

*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.

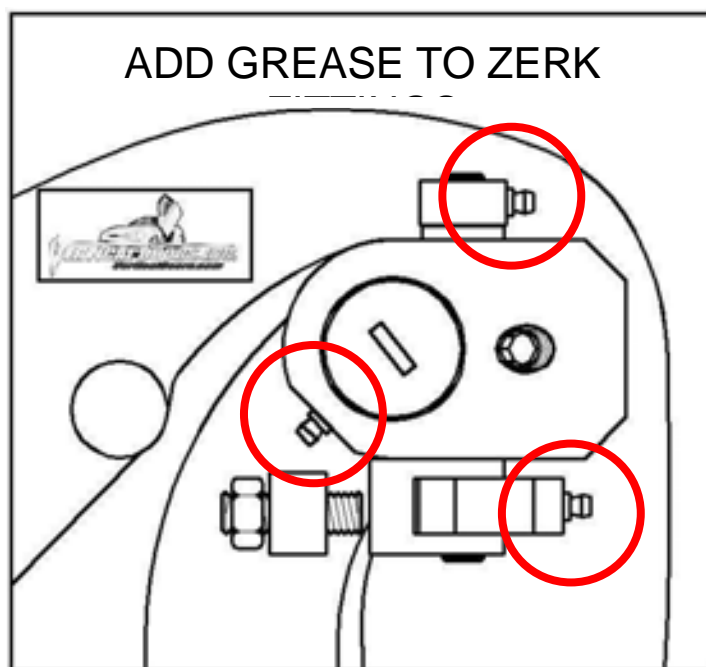
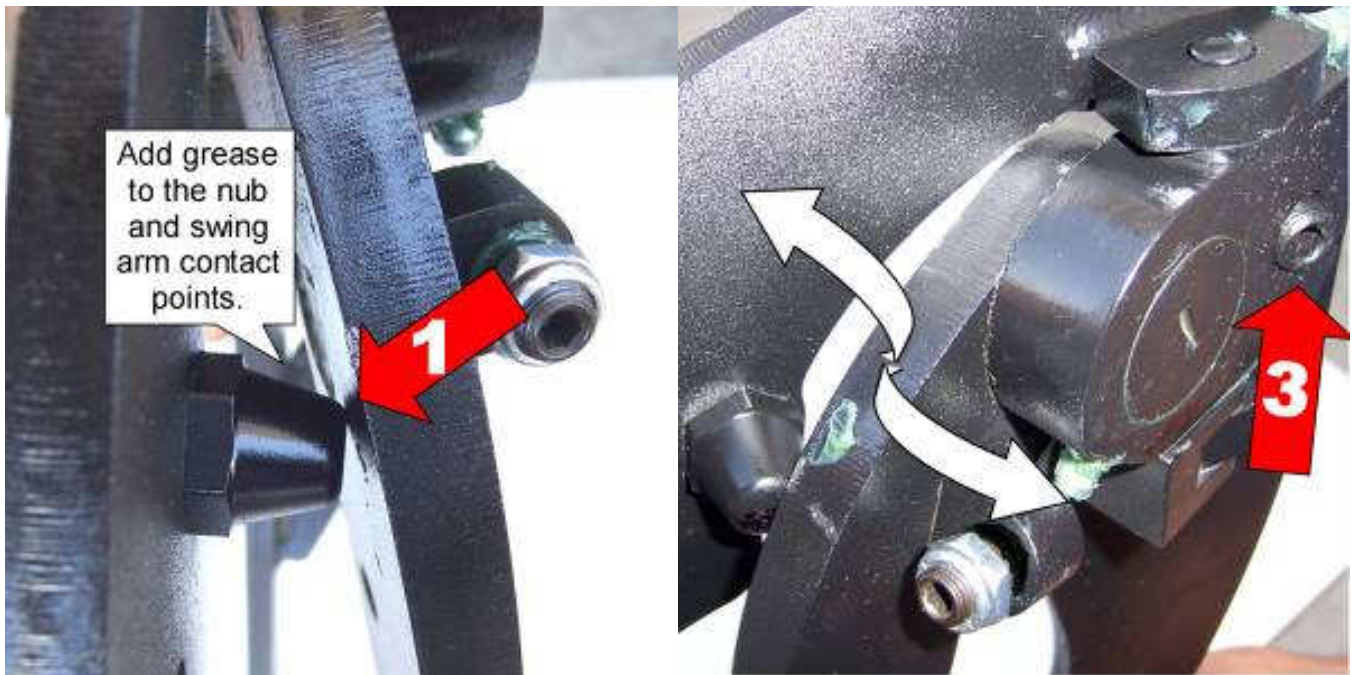


*Hint\* (You will need a helper to raise the door). (Slip the spherical rod mount into the spherical ball bearing (1). Using a 1/4 Allen wrench, tighten the screw into the swing arm (2). After the shock is installed secure it by installing the pin in the bottom shock end (3).*

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.*

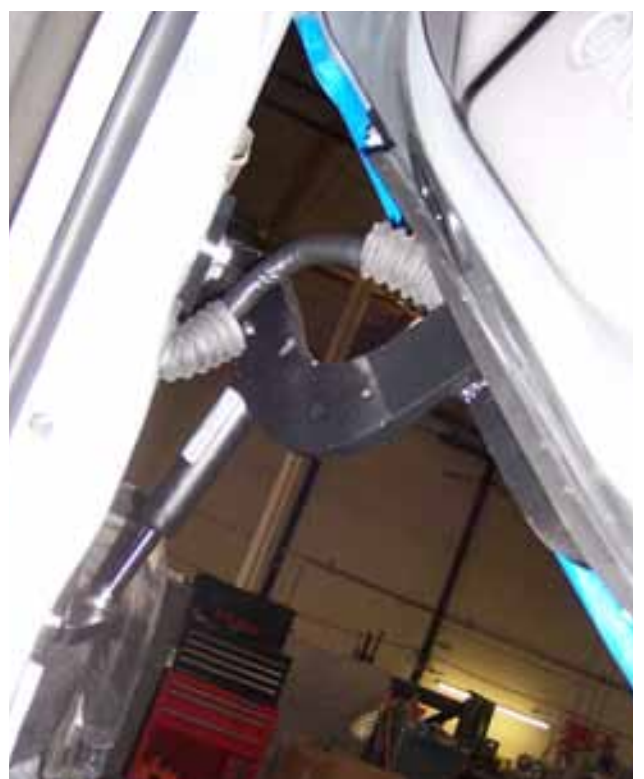




**Note: Do not install fender until the adjustment of the door is accurate, and the set screw is tightly secure. Also make sure everything is tight, adjustment is set and everything is Locktite.**

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

Your wires should look like the picture on the right.



**11)** 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.



*Use the dotted lines as reference.*

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

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

**13)** For the other side just follow steps 2-3.