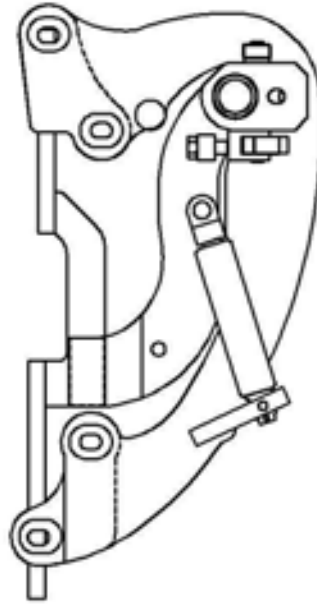
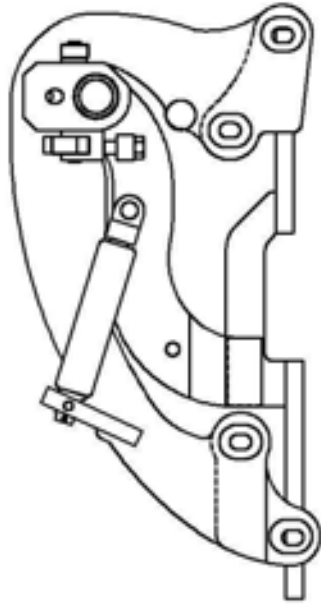




**2005-2006**

**INSTRUCTIONS**

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



**THIS KIT INCLUDES:**

<ul style="list-style-type: none"> <li>➤ 16 M8-1.25X30MM BOLTS WITH WASHERS</li> </ul>	<ul style="list-style-type: none"> <li>➤ RIGHT AND LEFT HINGE ASSEMBLY</li> </ul>
<ul style="list-style-type: none"> <li>➤ 2 SHOCKS 565 PSI</li> </ul>	<ul style="list-style-type: none"> <li>➤ 2 SHOULDER BOLTS</li> </ul>
<ul style="list-style-type: none"> <li>➤ 2 PINS</li> </ul>	

**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>➤ 10MM, 11MM, 13MM, 14MM, 15MM, 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>

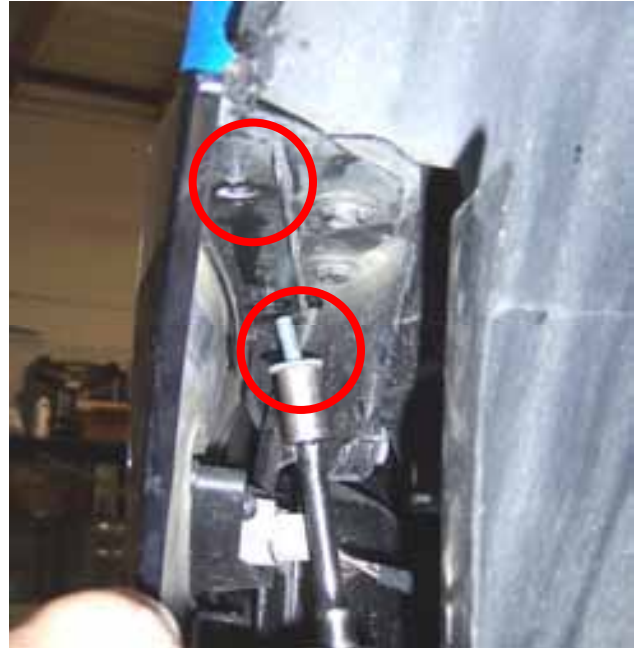
**(Note: The pictures on the manual are for reference only they may not match your vehicle.)**

1) Disconnect the battery.

2) Remove fender:

Remove all the fasteners around the wheel well.

After removing the fasteners around the wheel well go to the front (closest to the bumper) and pull on the wheel well this will allow you to remove (2) 10mm bolts securing the fender to the bumper.



Now pull on the bumper this will allow you to remove (2) 10mm bolts securing the fender to the body.



Use a Phillip's screwdriver to remove the (2) screws from the bottom of the skirt.



Open the door and remove the foot guard (PIC 1) and use the fork to **CAREFULLY** undue the first (2) plastic clips on the skirt (PIC 2).



Close the door and use the fork to **CAREFULLY** pull on the skirt to gain access to (2) 10mm bolts securing the fender to the body.



Pull on the wheel well to gain access to (2) 10mm bolts that secure the fender to the body. The bolts are in a bracket located next to the factory hinges, you will need to use an extension to reach them.



Remove all the bolts from the top of the fender.

Now you are ready to **CAREFULLY** remove the fender starting from the bottom by the skirt and then on the top by the windshield pillar, we recommend using a helper for this step.



**3)** Open the door and remove (1) screw from the bottom hinge. Close door and use painter's tape to secure the door in preparation for factory hinge removal.

Use a 13mm socket to remove the remaining bolts on the factory hinges.



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

Install the spacers after the factory hinges have been removed.

**4)** Cut the factory wire boot in half:



5) Install new Vertical Doors Inc. system:

Make sure the surface is completely flat.

*Hint\* Tighten the bolts on the door first then 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.**

ON FIGURE 5, make sure you put red Loctite, where the arrow is pointing, on thread of shoulder bolt.

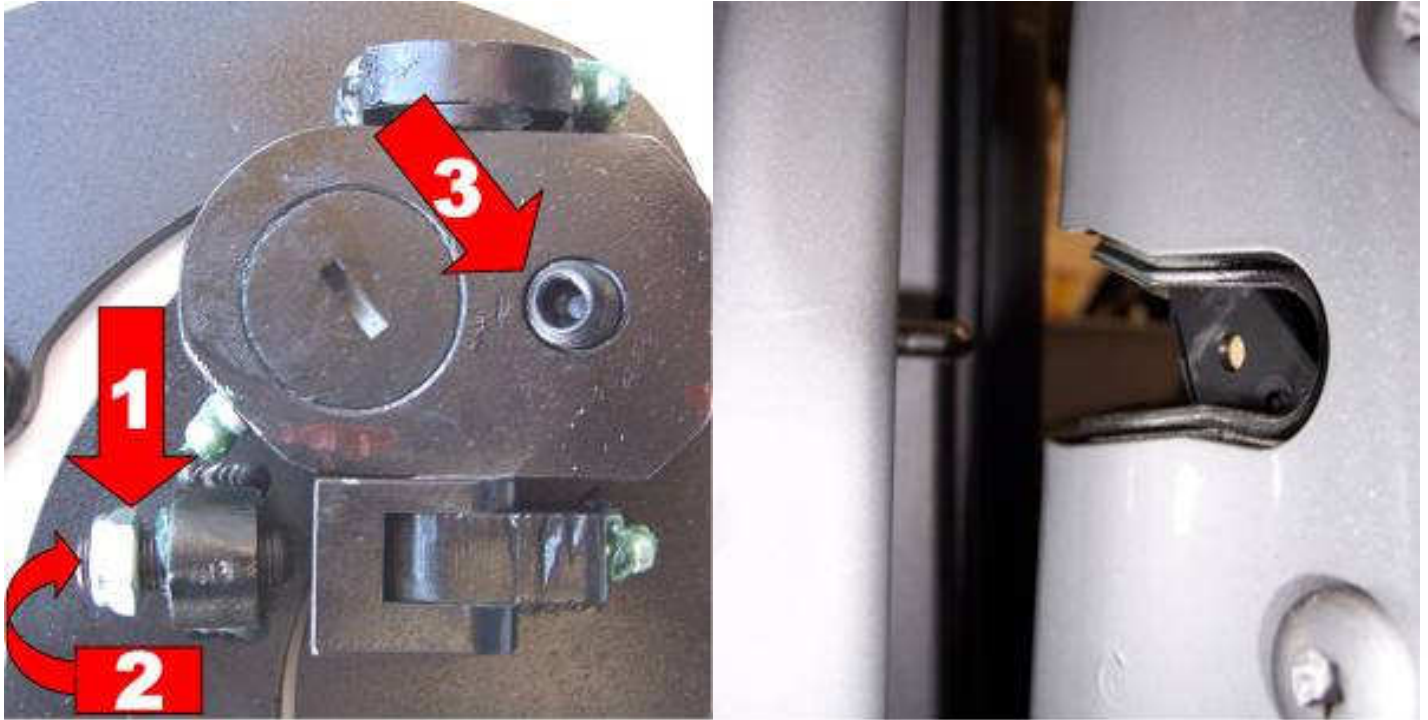
ON FIGURE 6, make sure you put grease on the body of shoulder bolt where the arrow is pointing.

ON FIGURE 7, 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.**



6) 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.*

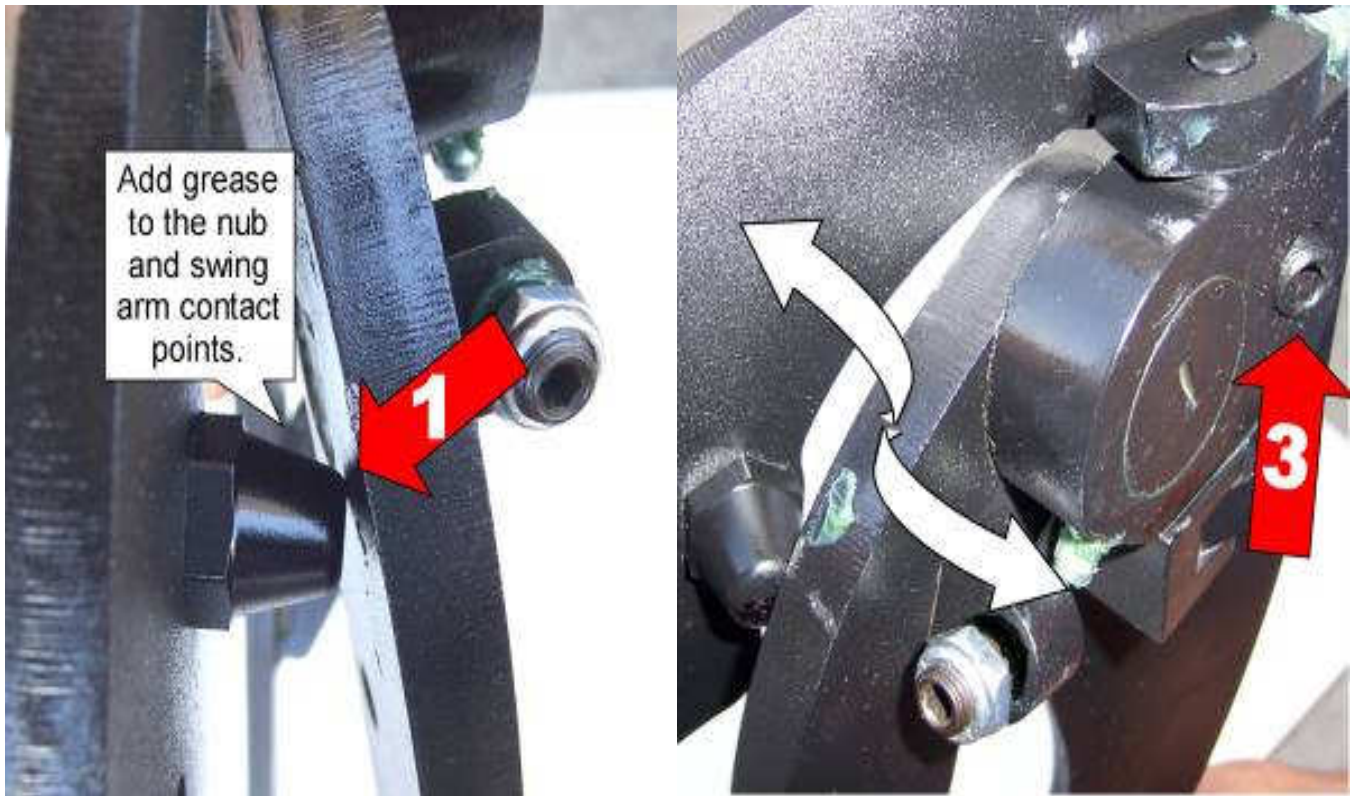
7) Install the shock.



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



**8)** 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 set screw (#2) to realigned sticker with door. After the door is aligned, 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.

**9) Modify factory wire loom.**

You will have to open and raise the door and add included wire loom to protect exposed wires.

Your wires should look like the picture on the right.



**10) 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 take out any sharp edges, use black door trim to give it a finish look.**



**11) 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)*

**12)** For the other side follow steps 2-11, with a few different steps.

1<sup>st</sup> you will need to gain more wire slack to do this you will have to pull on the floor carpet and remove the kick plate and remove (3) plastic clips



2<sup>nd</sup> you will have to remove the right front tire and the windshield water reservoir In order to remove the fender. After the new VDI system has been install use the included clamp to secure the water reservoir to the hinge. You will have to modify the hole where the water house connects to the reservoir.

