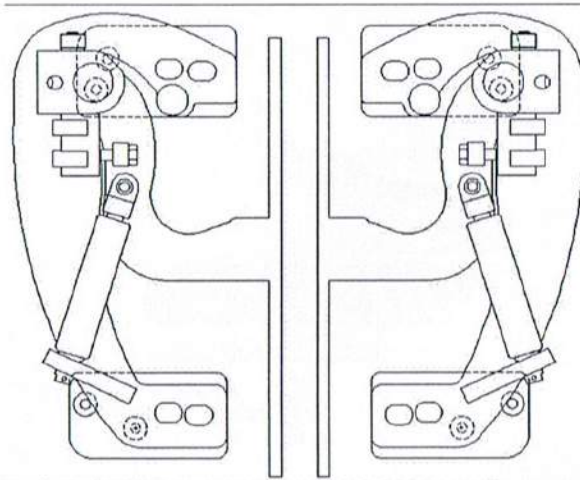


SMART MADNESS



Vertical Doors Installation Instructions



THIS KIT INCLUDES:

- 8 M8-1.25X30MM BOLTS WITH WASHERS
- 8 M8-1.25X20MM BOLTS WITH WASHERS
- 2 SHOULDER BOLTS WITH WASHERS
- 2 SHOCKS 520 PSI 2 PINS
- RIGHT AND LEFT HINGE ASSEMBLY
- 8M X 1.25 X 30 F.H.C.S. BLK./FINISH
- 2 "L" BRACKETS AND 2 U-STYLE NUT CLIP.
- ½ ELEC. CONDUIT CLAMP

TOOLS REQUIRED FOR INSTALLATION:

	➤ AIR RACHET, GRINDER AND CUTTER.
	➤ 7MM, 8MM, 10MM, 11MM, 13MM, SOCKETS AND EXTENSION.
	➤ FORK AND PHILLIP'S SCREW DRIVERS
	➤ SPACERS FOR THE DOOR GAP.
	➤ 3/16 ALLEN WRENCH
	➤ 1/4 TORX BIT
	➤ 9/16 WRENCH
	➤ LOCKTITE RED

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.)

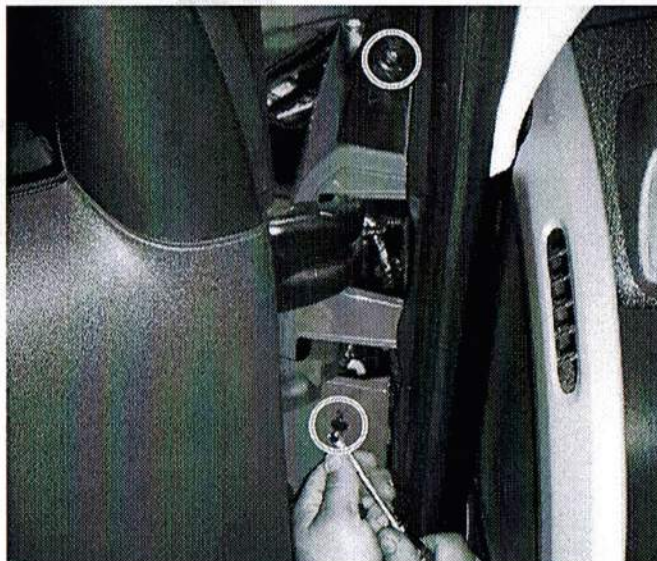
1) Disconnect the battery.

2) Remove fender:

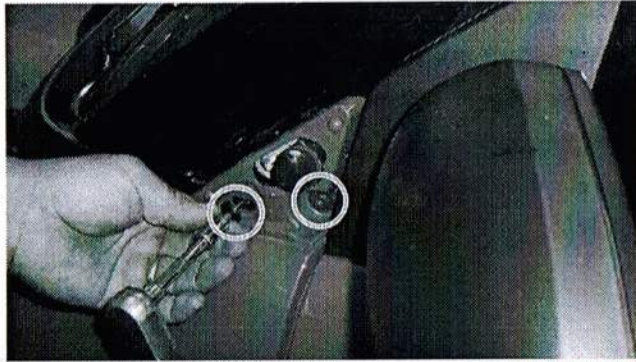
Remove all Phillip's screws or fasteners from the wheel well and the bolts and clips securing the fender to the body



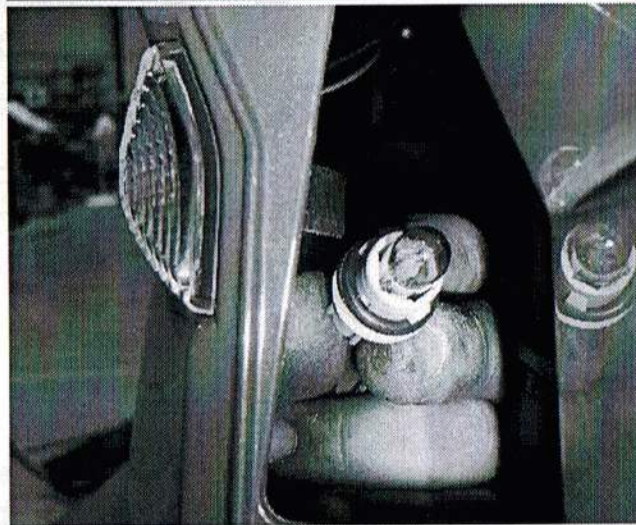
Open the door and remove the antenna. Remove the two clips, one from the fender and one from the antenna cover and close the door.



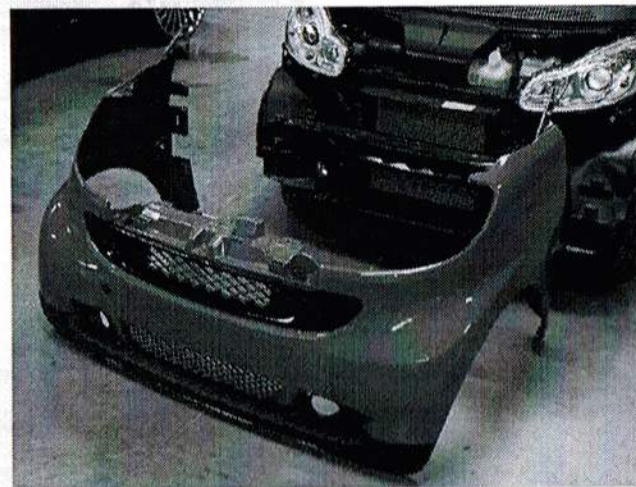
Remove the antenna cover and the two screws behind the antenna cover.



Pull back the wheel well cover reach in and disconnect the fender marker light.



At this point you should be able to remove the fender by pulling it forward.



3. Factory door location.

Before removing the factory hinges make sure to mark up the factory location on the vertical and horizontal planes as shown on the "pics 1 & 2" also measure the distance of the edge of the door to the apron of the car at the top and bottom as shown on the "pics 3 & 4".



4) Door removal.

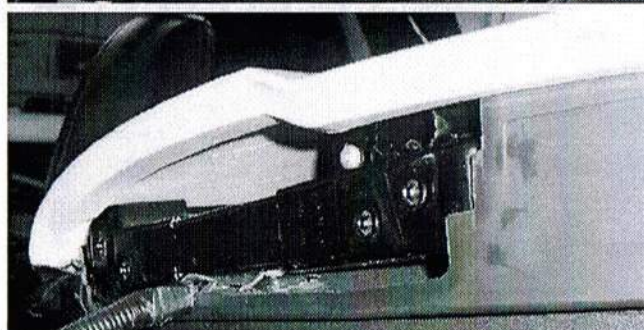
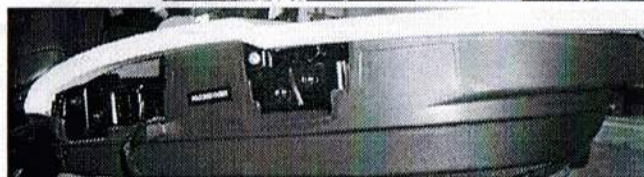
Now that you have marked the factory location of the door you can remove the factory hinges.

Hint: secure the door to the body with painters tape this will make it easier to

remove the door.

Remove the door from the body and place it on a solid surface as shown.

You will need to cut out the plastic cover between the top and bottom hinge as shown.



5) Wire modification.

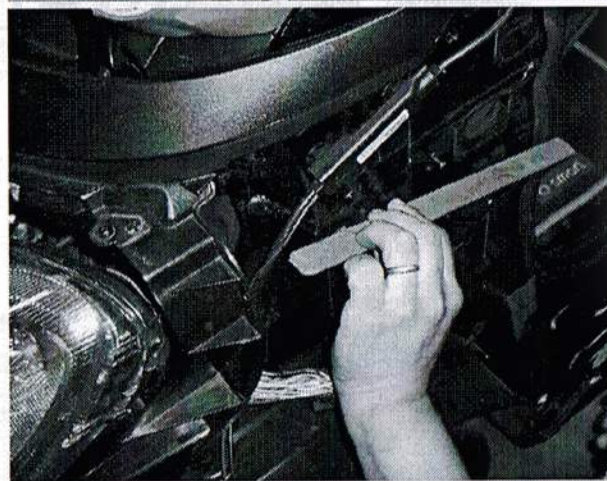
Remove the factory wire cover and replace it with the enclosed wire loom. Use high quality black electrical tape to create a tight factory look over the wire loom.



6. Apron modification.

You will have to grind down about a 1/4" off two screws extruding from the body.

Use a ruler as shown and only grind down just enough to clear the ruler.

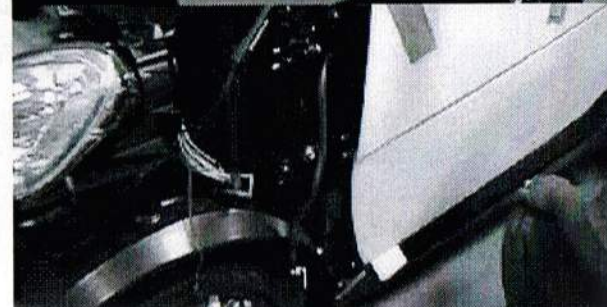


7) Replace the door.

Use painters tape to secure the door to the body, and match up the marks as close as possible.

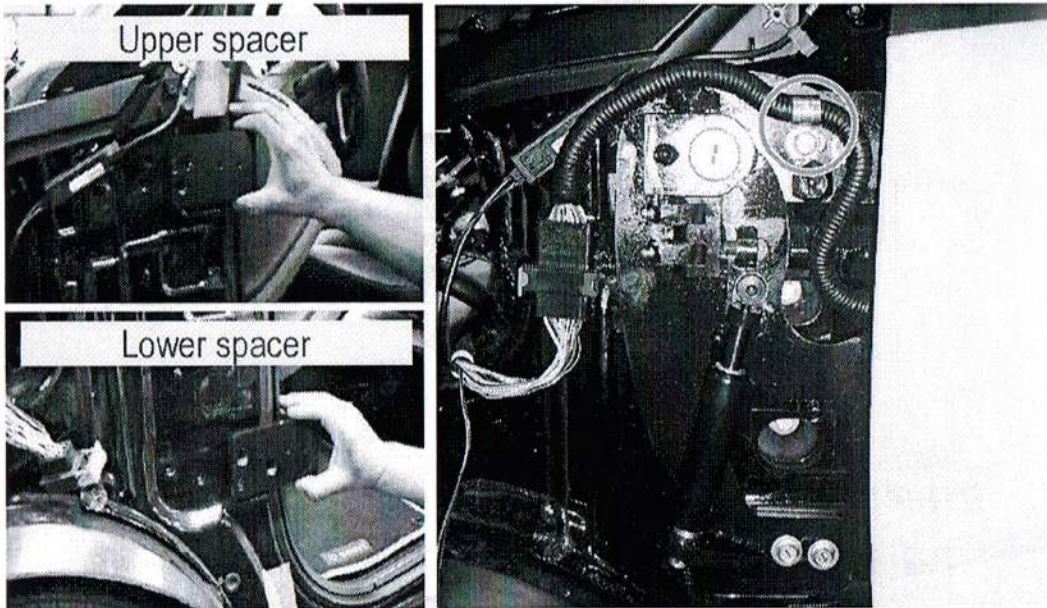


Hint: you may need to use a spacer at the bottom of the door to raise the door so that the marks you made line up.

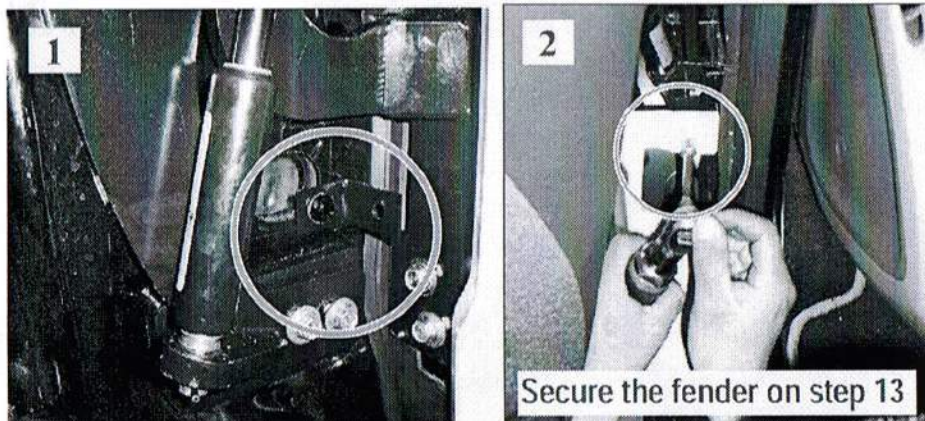


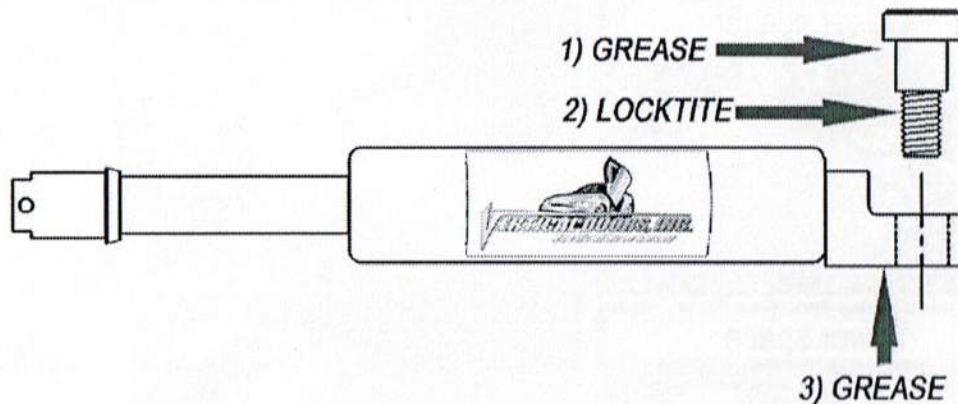
8) Installing the new Vertical Door Kit.

Install the Upper and Lower spacers and then install the swing arm assembly. You will have to relocate the antenna amplifier as shown. Use the provided bracket to secure the wire loom to the top hole in the swing assembly as shown.



Install the provided "L" bracket; the front of the bracket should be line up with the front edge of the bottom spacer. This will give you a place to secure the fender to.



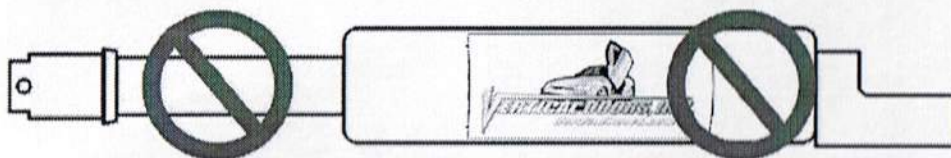


***IMPORTANT STEP: DO NOT SKIP THIS STEP. THIS STEP IS CRUCIAL IN YOUR INSTALLATION PROCESS, IF THIS STEP IS NOT COMPLETED WHEN INSTALLING THE VERTICAL DOOR KIT; ALL WARRANTIES ARE VOIDED, AND MAY CAUSE FUTURE PROBLEMS WITH YOUR VERTICAL DOOR SYSTEM.**

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

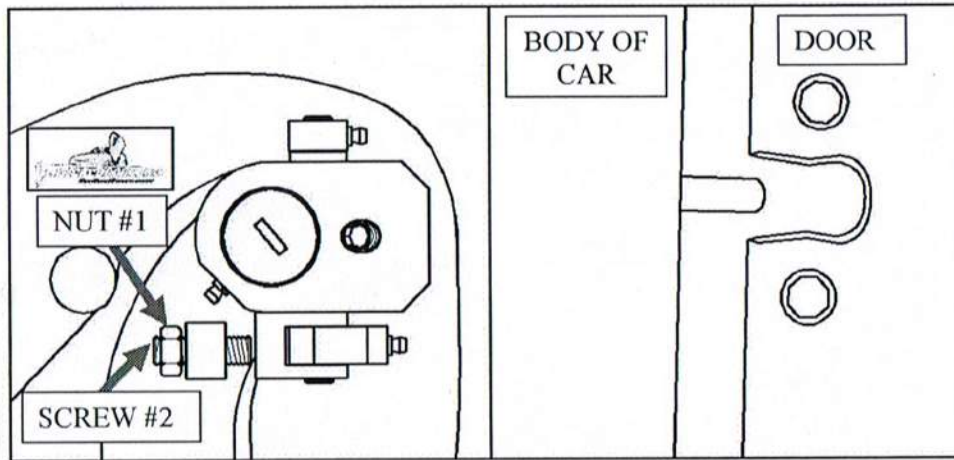
2ND, make sure you put red Locktite, where the arrow is pointing, on thread of shoulder bolt.

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



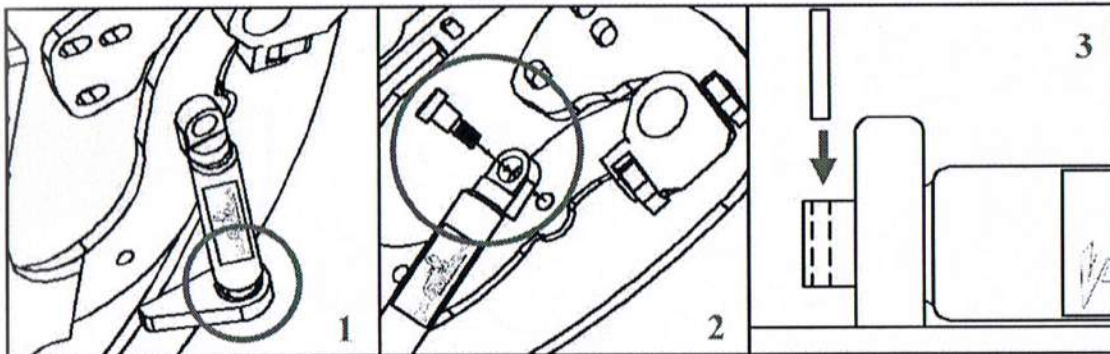
WARNING! THE USE OF ANY TYPE PLIERS, PAINT OR FOREIGN MATERIALS ON THE SHOCK'S BODY OR SHAFT WILL VOID THE WARRANTY.

9) 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).*

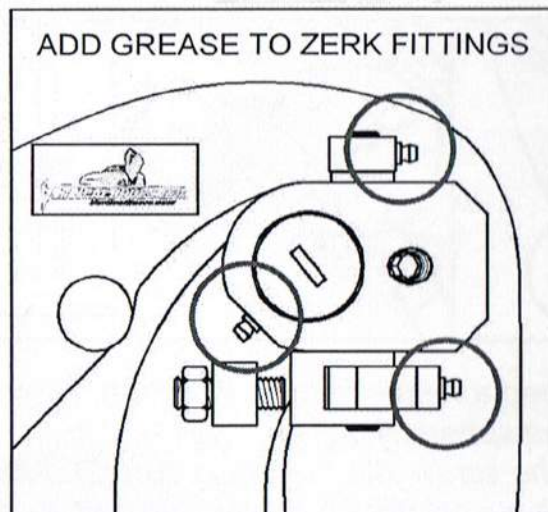
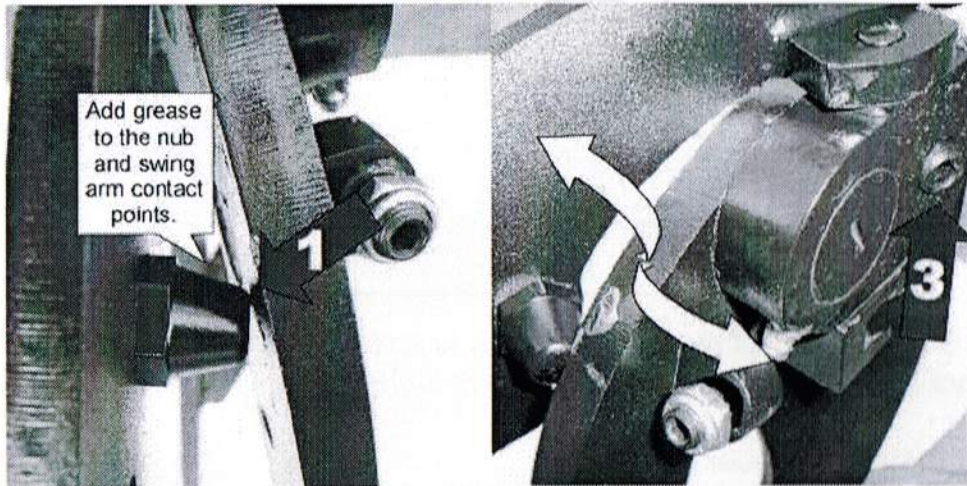
10) Install the shock.



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).*

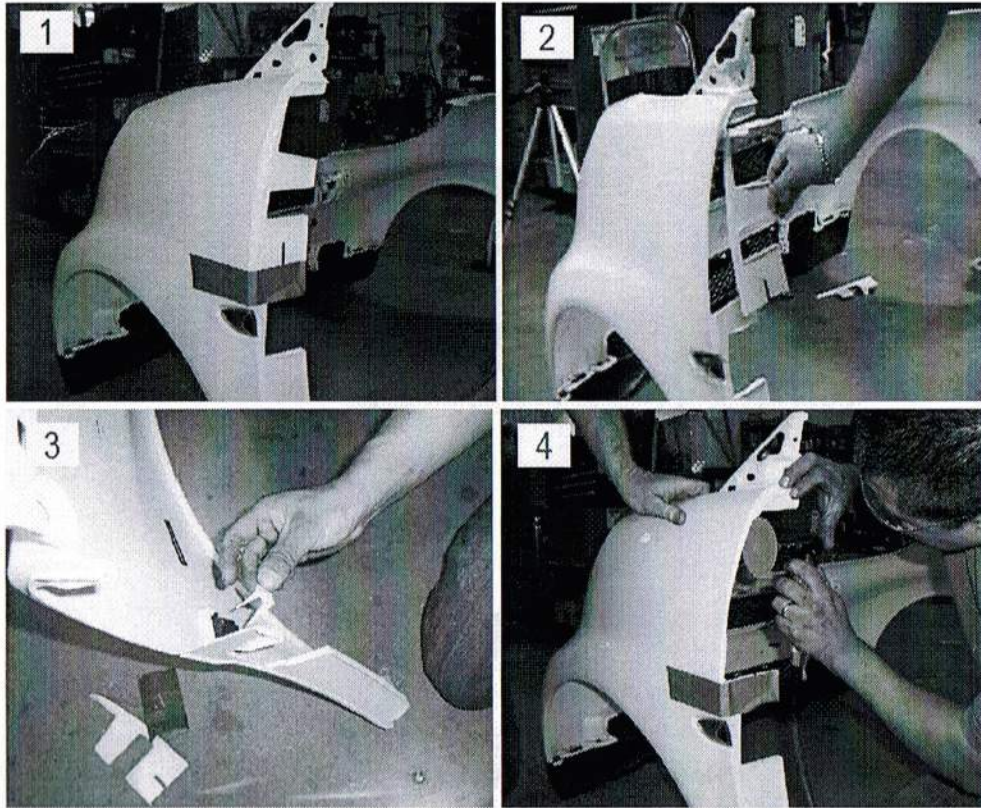
11) After shock is installed re-install door panel and lift the door. Adjust door opening screw #3 clockwise until distance between nub and swing arm is enough so that the swing arm moves up and down freely.

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.

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. Use the “L” bracket you installed earlier to secure the inner fender as shown.

