



DODGE CHALLENGER

U.S. PATENTS

#6,808,223; #6,845,547; #7,140,075; #7,059,655

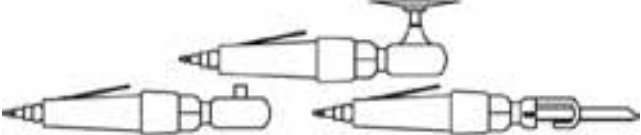
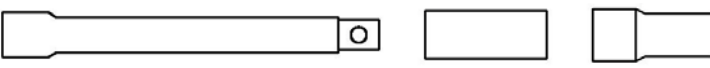



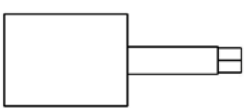

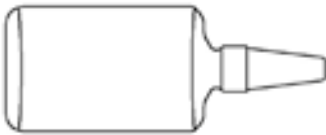
PATENTS AGGRESSIVELY ENFORCED!

**PLEASE CAREFULLY READ ALL INSTRUCTIONS BEFORE
ATTEMPTING TO INSTALL THIS PRODUCT.**

THIS KIT INCLUDES:

- 2 PINS
- RIGHT AND LEFT HINGE ASSEMBLY
- 2 SHOCKS 680L PSI
- 2 SHOULDER BOLTS WITH WASHERS

TOOLS REQUIRED FOR INSTALLATION:

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

OTHER TOOLS MAY BE NEEDED DEPENDING ON YOUR VEHICLE

Disconnect the battery.

Remove the fender by removing all Plastic clips around the wheel well including the ones securing the bumper and side skirts.

Remove all the bolts securing the fender to the body. Note there are bolts located by the headlights and also in between the fender and the door; you will need to open the door to get to them.

Disconnect the wire harness and cut the wire boot in half.

Remove the upper fender support
Do not remove the bottom one.

Note: surface must be completely flat before installing the New Vertical Doors hinge.

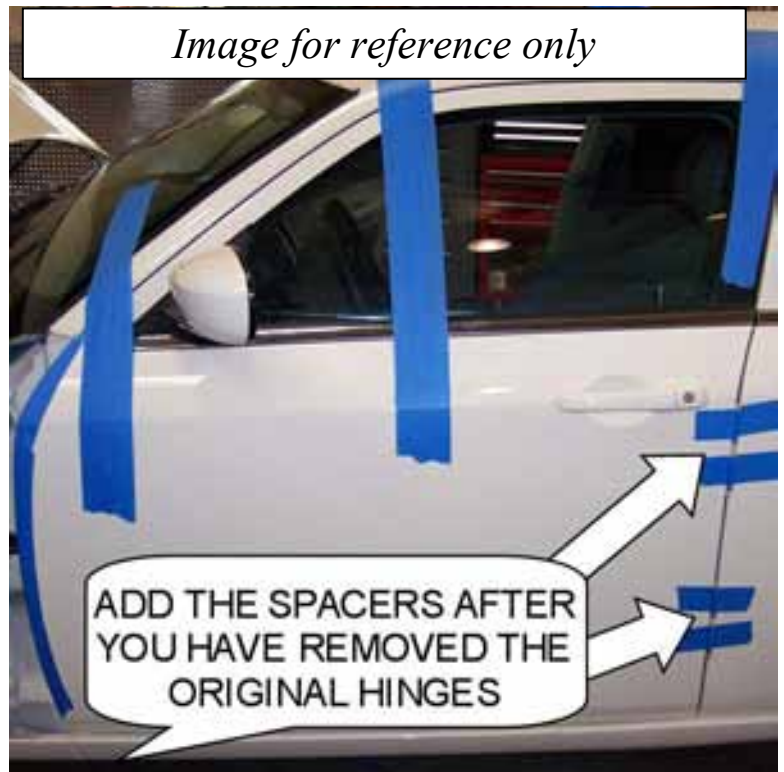


Before you remove the factory hinges you need to mark your door's factory location on the horizontal and vertical planes, you also need to measure the distance between the apron and front edge of the door by the top and bottom hinge. This will make the alignment of the reinstall much easier.

DO NOT REMOVE THE DOOR FROM VEHICLE.

Use painter's tape to secure the door to the body as shown

Remove original door hinges and Install the New Vertical Doors Inc. System as shown.



You will need to modify the wire layout to gain extra wire slack.

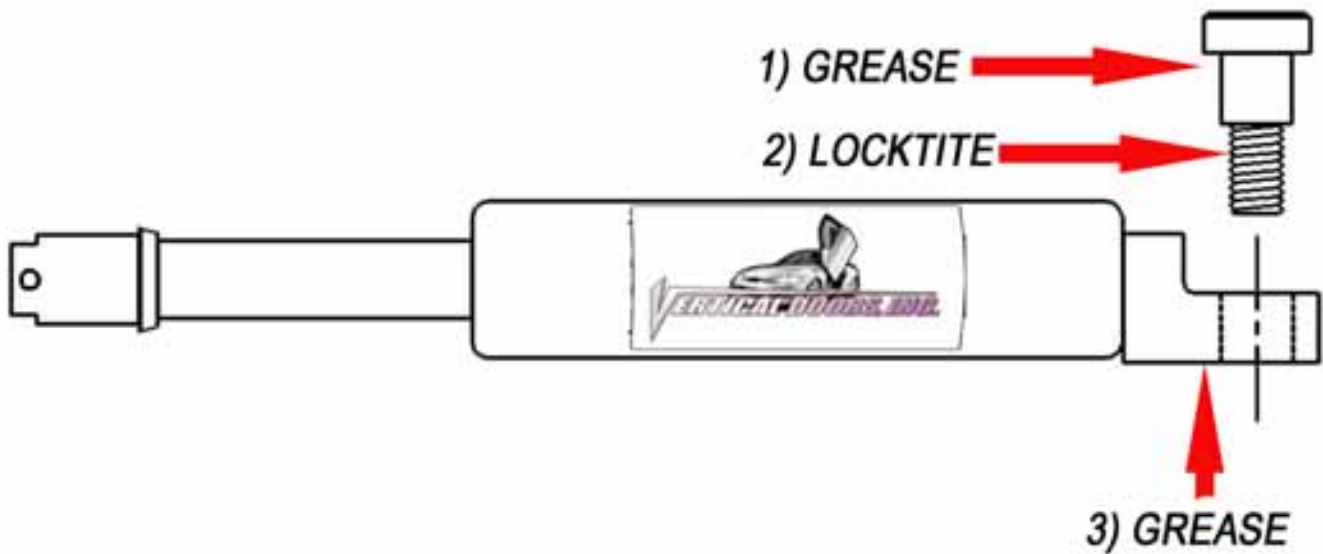


Remove the kick plate and remove the clips securing the wires to the body.



This will give you the necessary wire slack needed to make the kit work properly.





***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.

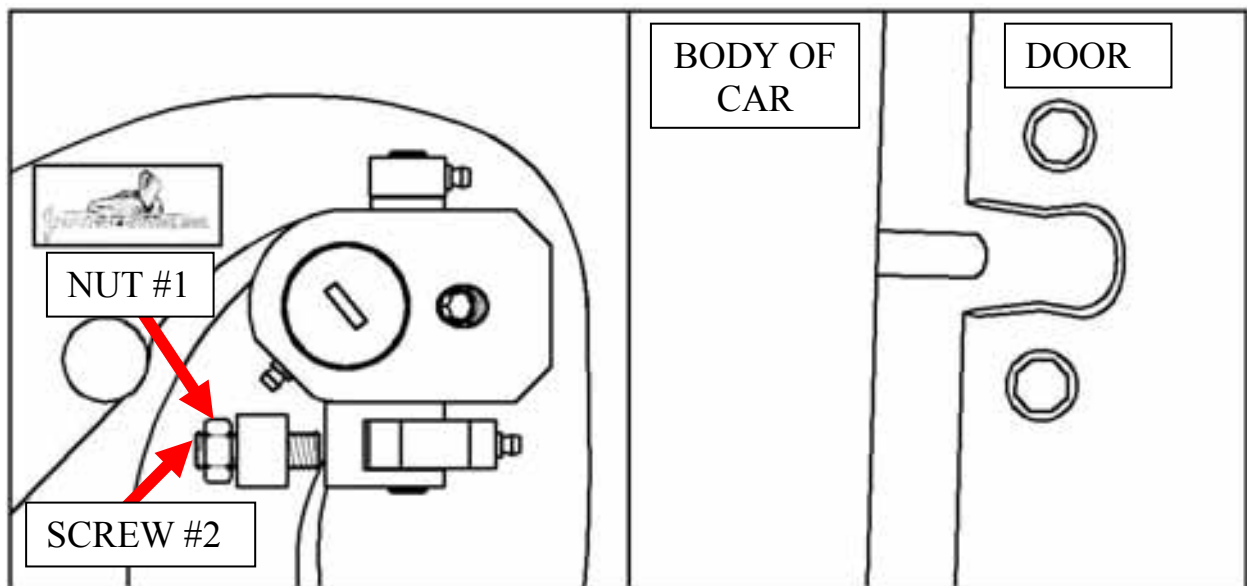
2ND, make sure you put red Loctite, where the arrow is pointing, on thread of shoulder bolt.

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



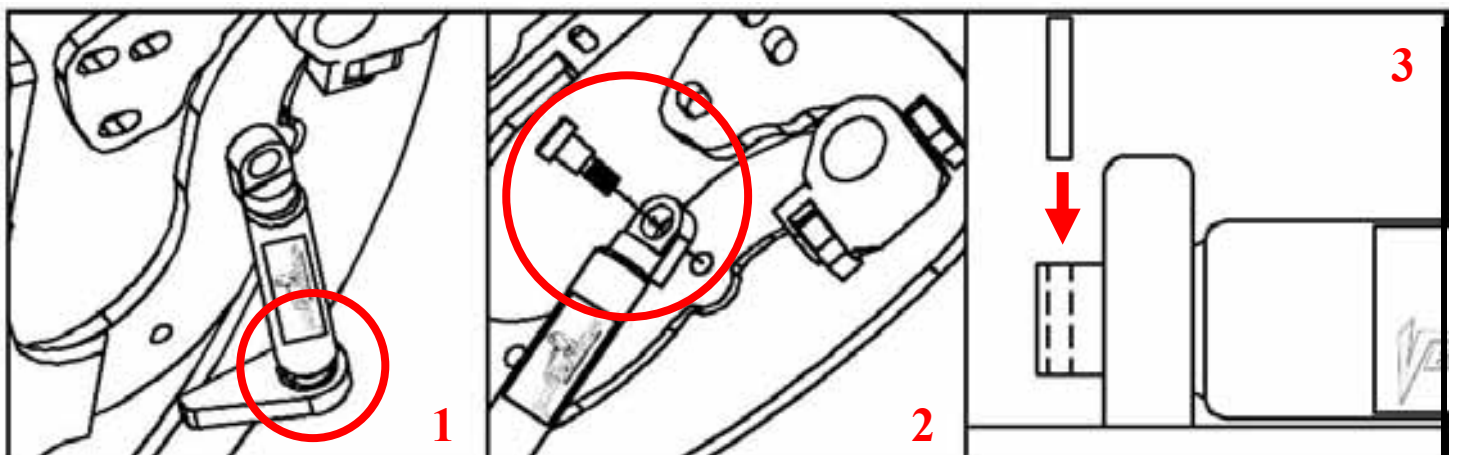
WARNING! THE USE OF ANY TYPE PLYERS, PAINT OR FOREING MATERIALS ON THE SHOCK'S BODY OR SHAFT WILL VOID THE WARRANTY.

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.



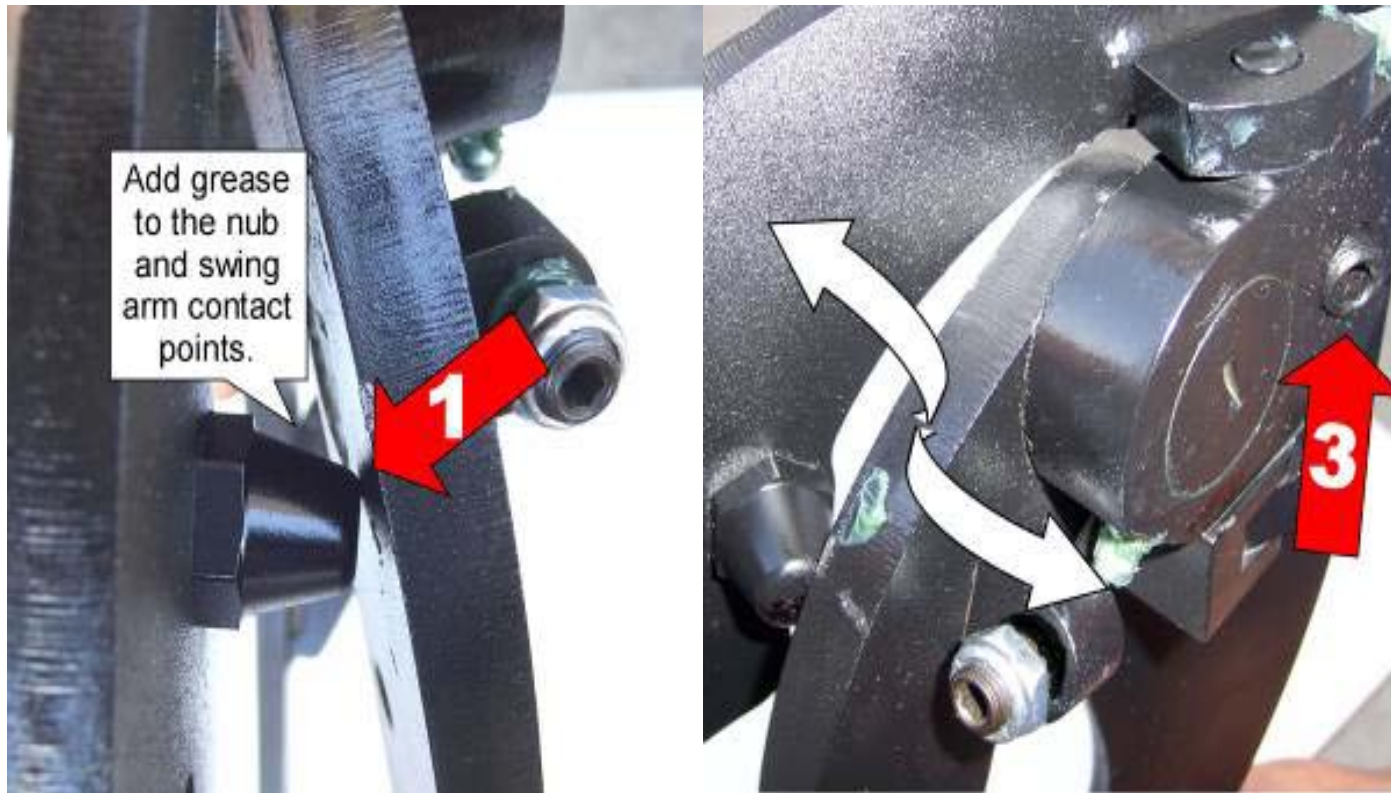
Hint(leave #1 nut loose until shock is installed Allen set screw will have to be re-adjusted after shock is installed.*

Install the shock.

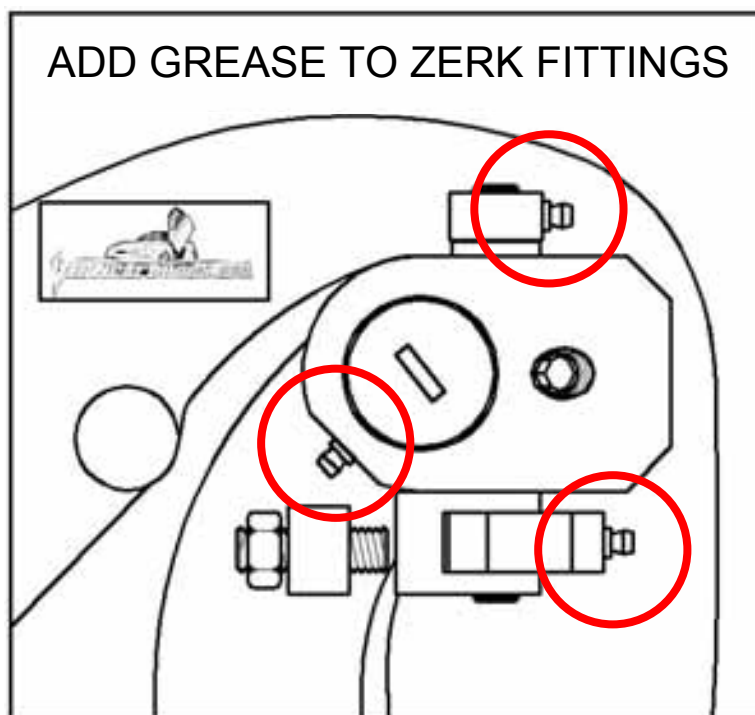


Hint (You will need a helper to raise the door). (Slip the spherical rod mount into the spherical ball bearing (1). Using a 1/4 Allen wrench, tighten the screw into the swing arm (2). After the shock is installed secure it by installing the pin in the bottom shock end (3).*

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 striker 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 Loctite.

Once the shock is installed connect the wire harness and use zip ties to secure the wire boot to the factory wire loom.



Cut the inner lip of your fender to make room for the new Vertical Doors hinge.



Close the door and Replace the fender

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

Follow the same steps for the other side.