

VERTICAL DOORS, INC.

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CORVETTE "C7" 2014 ZLR DOOR

U.S. PATENTS

**#6,808,223; #6,845,547; #7,140,075; #7,059,655
PATENTS AGGRESSIVELY ENFORCED!**

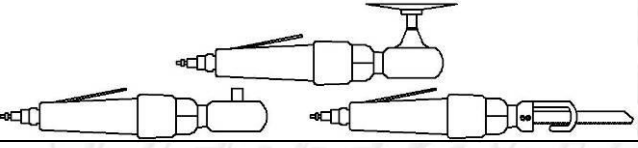
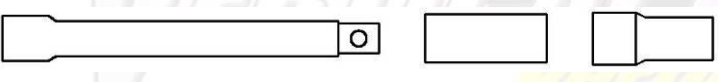
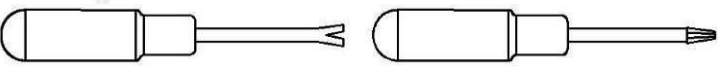


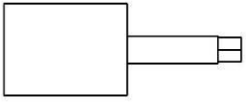
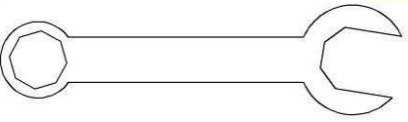
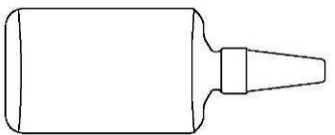
**PLEASE CAREFULLY READ ALL INSTRUCTIONS BEFORE
ATTEMPTING TO INSTALL THIS PRODUCT.**

**FOR QUESTIONS PLEASE
CONTACT US AT (951) 273-1069**

THIS KIT INCLUDES:

➤ 4 M8-1.25X60MM BOLTS WITH WASHERS	➤ 2 ZLR SHOCKS
➤ 10 M8-1.25X40MM BOLTS	➤ 2 FENDER BRACKETS W/ Washer ➤ 2 M8-1.25x20MM BOLTS WITH WASHERS
➤ RIGHT AND LEFT HINGE ASSEMBLY	➤ 2 M6-1.00X20MM WITH WASHERS ➤ 5 8" WIRES W/ CONNECTORS

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 & T15 TORX BIT
	➤ 9/16 WRENCH
	➤ LOCKTITE RED

OTHER TOOLS MAY BE NEEDED DEPENDING ON YOUR VEHICLE.

(Note: The pictures in this manual are for reference only they may not match your vehicle.)

Disconnect the battery.

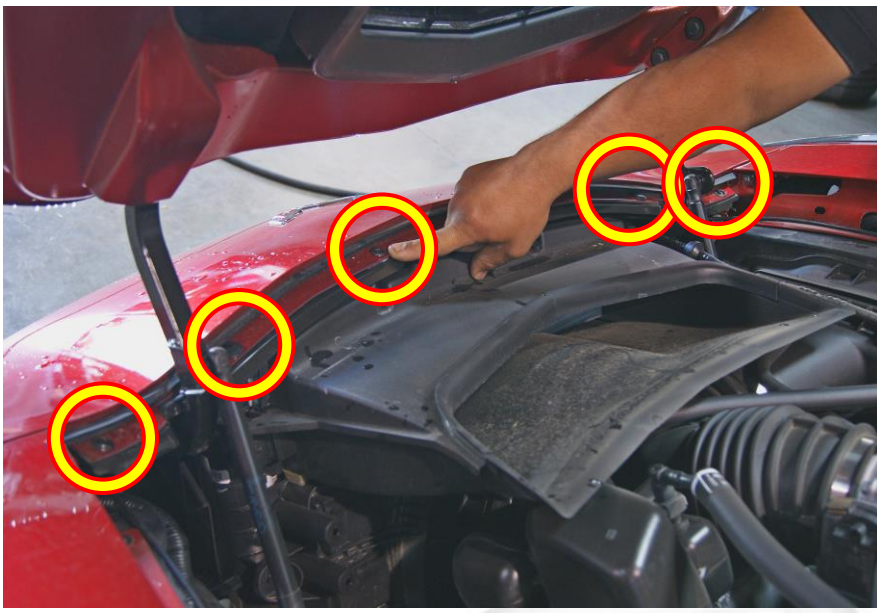
Pull the rubber cover over the door catch out from its location. Unbolt the door catch from the apron.



Remove the Front Bumper:

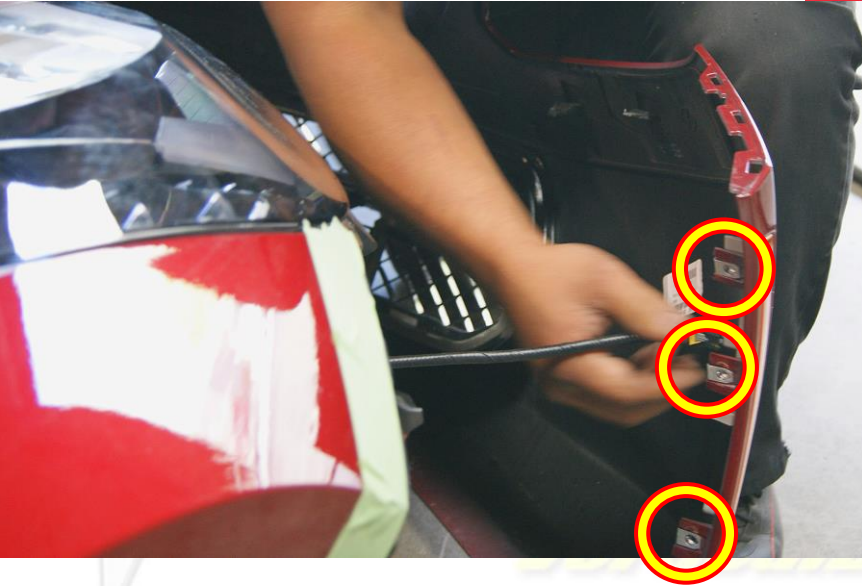
Remove the plastic covers along the top of the fender to reveal the fasteners securing the bumper and fender





Remove all the bolts and plastic clips securing the bumper to the body and fenders

Remove the 3 screws attaching the bumper at the front of the wheel well. Turn the steering wheel all the way for access.

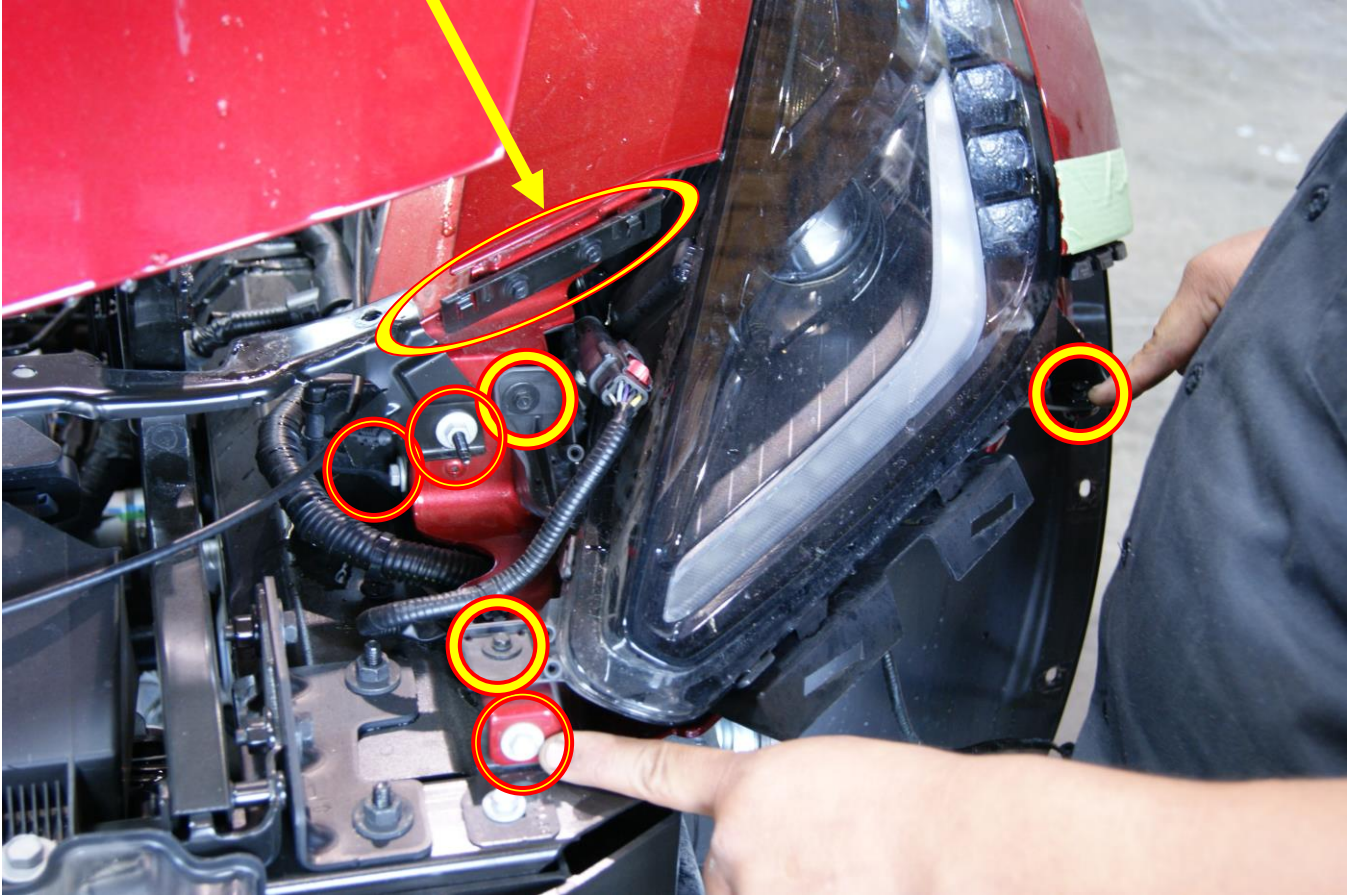



You will need to remove the fasteners under the front bumper to be able to release it. When removing the bumper, carefully unplug all wire harnesses that may be attached to it.



Remove the Headlights:

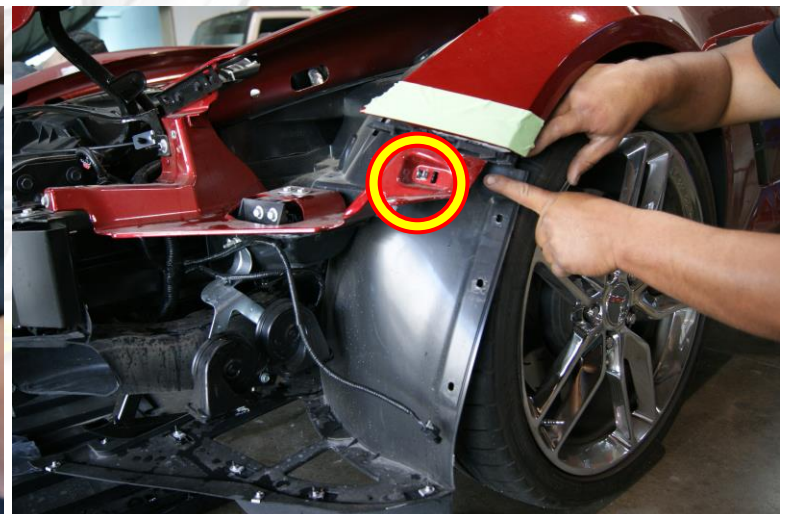
Unplug the wire harness and remove the rectangular bracket just above the headlight.



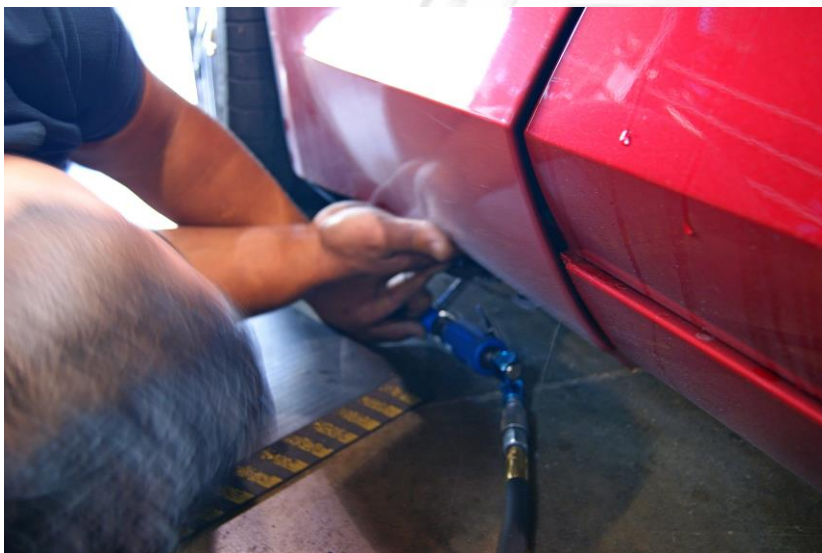
Remove all the bolts securing the headlight to the body. Marked by  circle. After removing the bolts pull forward on the headlight to remove it

Remove the Fender:

Remove all the bolts and fasteners from the fender. You will have to remove a couple of weather strip brackets to get access to the bolts that are hidden by them.

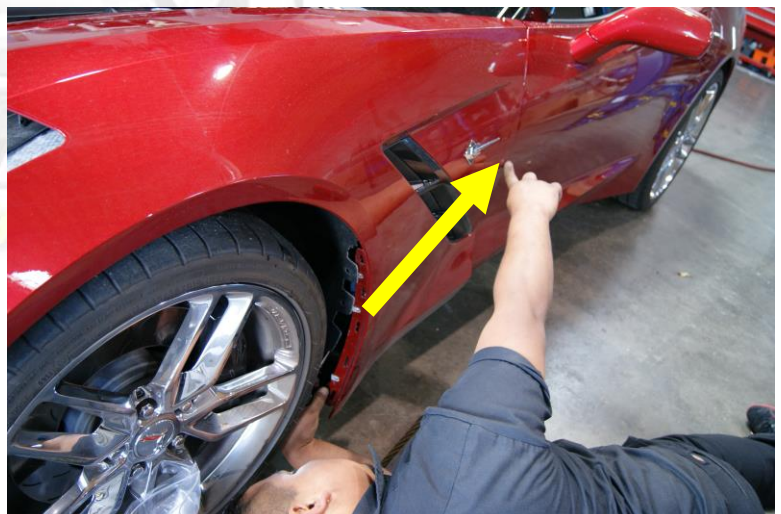


You will need to un-clip the splash guard by pulling on it towards the front of the car. Then you can Remove all the screws from around the wheel well.



Remove the bolts at the bottom of the fender.

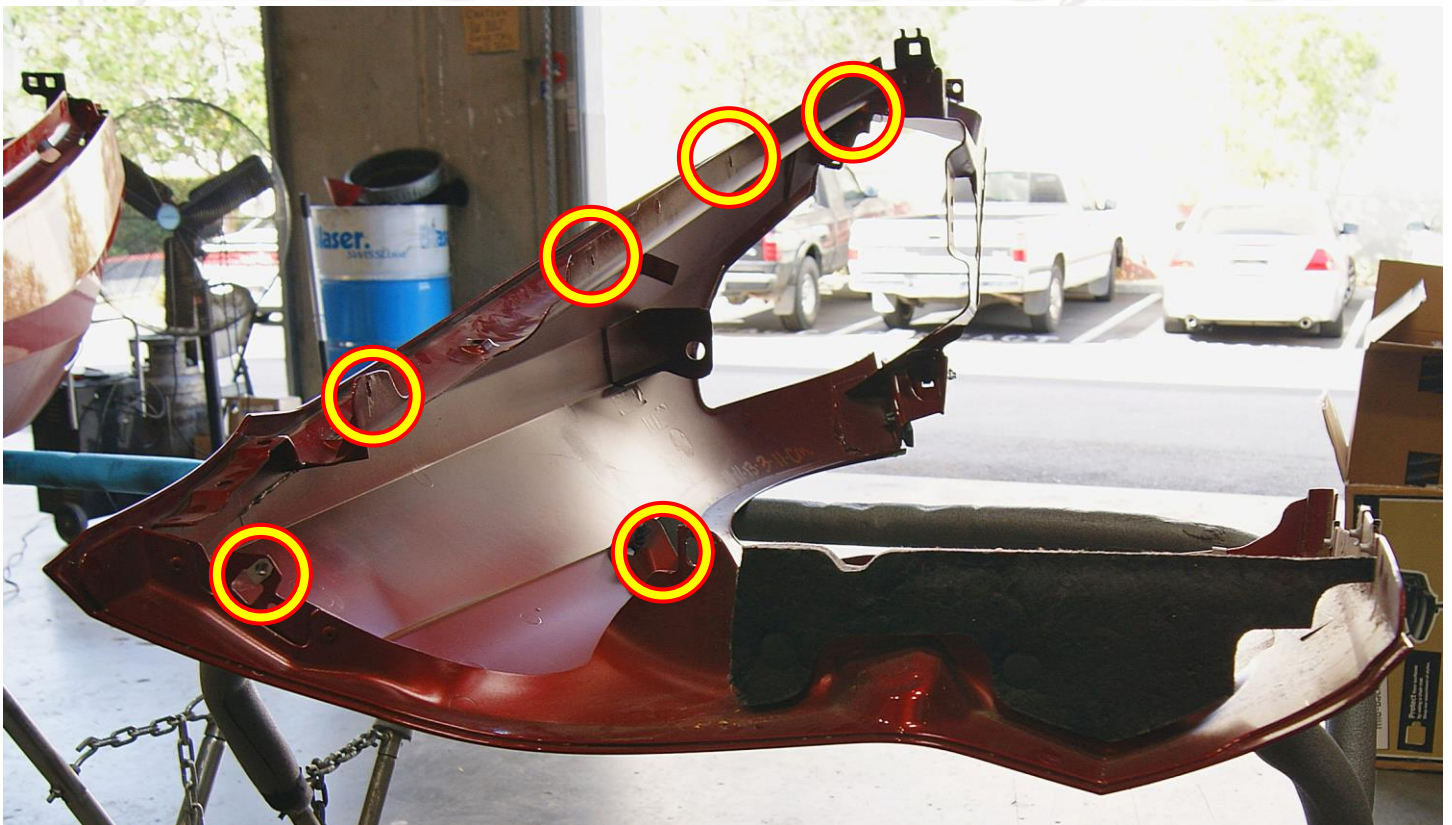
Pull on the bottom of the fender as shown and use an extension to remove the bolt securing the fender from the inside.



Open the door and remove the bolt securing the fender to the body as show.



Remove all the plastic brackets and the rest of the bolts securing the fender to the body.

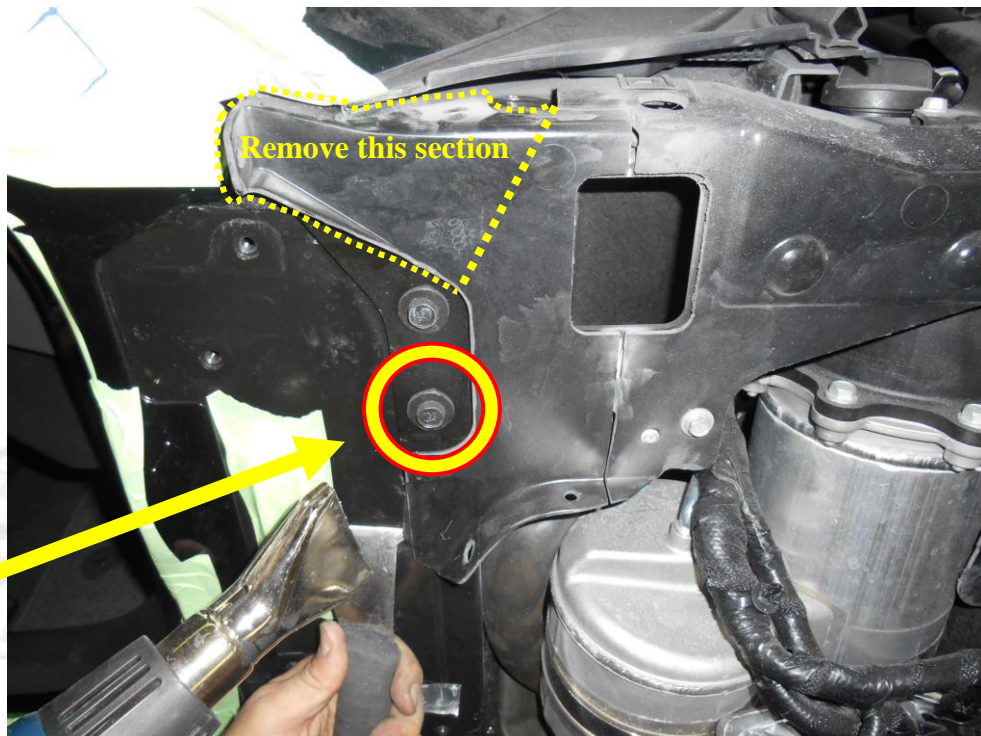


Now you should be able to carefully remove the fender.

Preparing the car for the New ZLR Door Hinge:

You will have to do some minor trimming so that the hinge can sit flat against the body. Trim the pieces outlined by dashed lines

Remove This Bolt

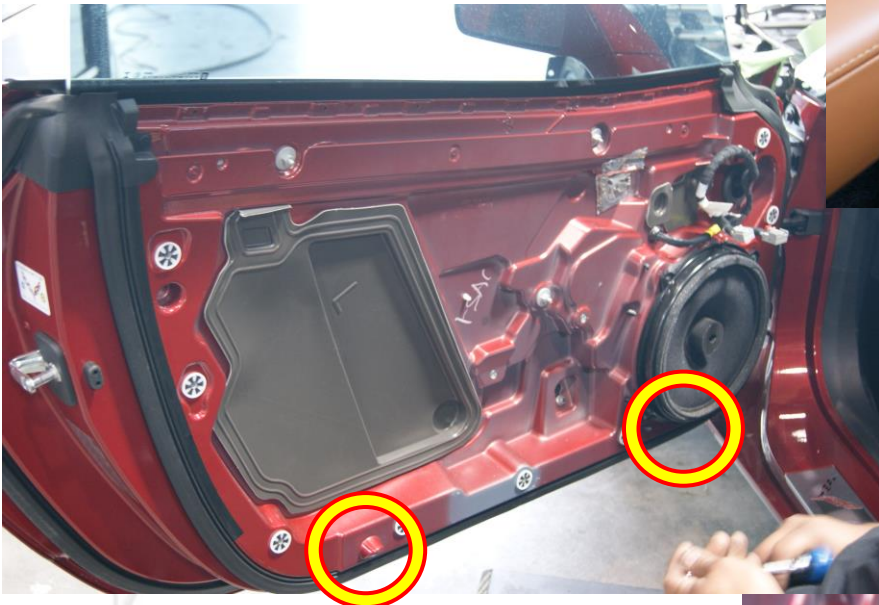


On the passenger's side you will want to remove the ECU to give you more room to work before you trim the fender bracket and install the new VDI Lambo Door hinge.

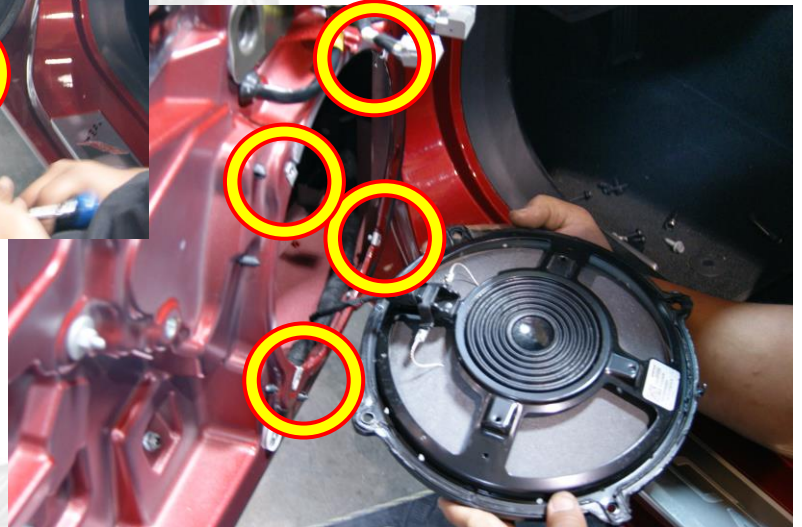


You will need to remove the door panel and the speaker to be able to remove the door catch and gain the extra slack in the wires. Two nuts secure the door catch from the door jamb side.

Remove the exit button and the bolt cover to gain access to hidden bolts by prying it out



Remove the 4 screws holding the speaker

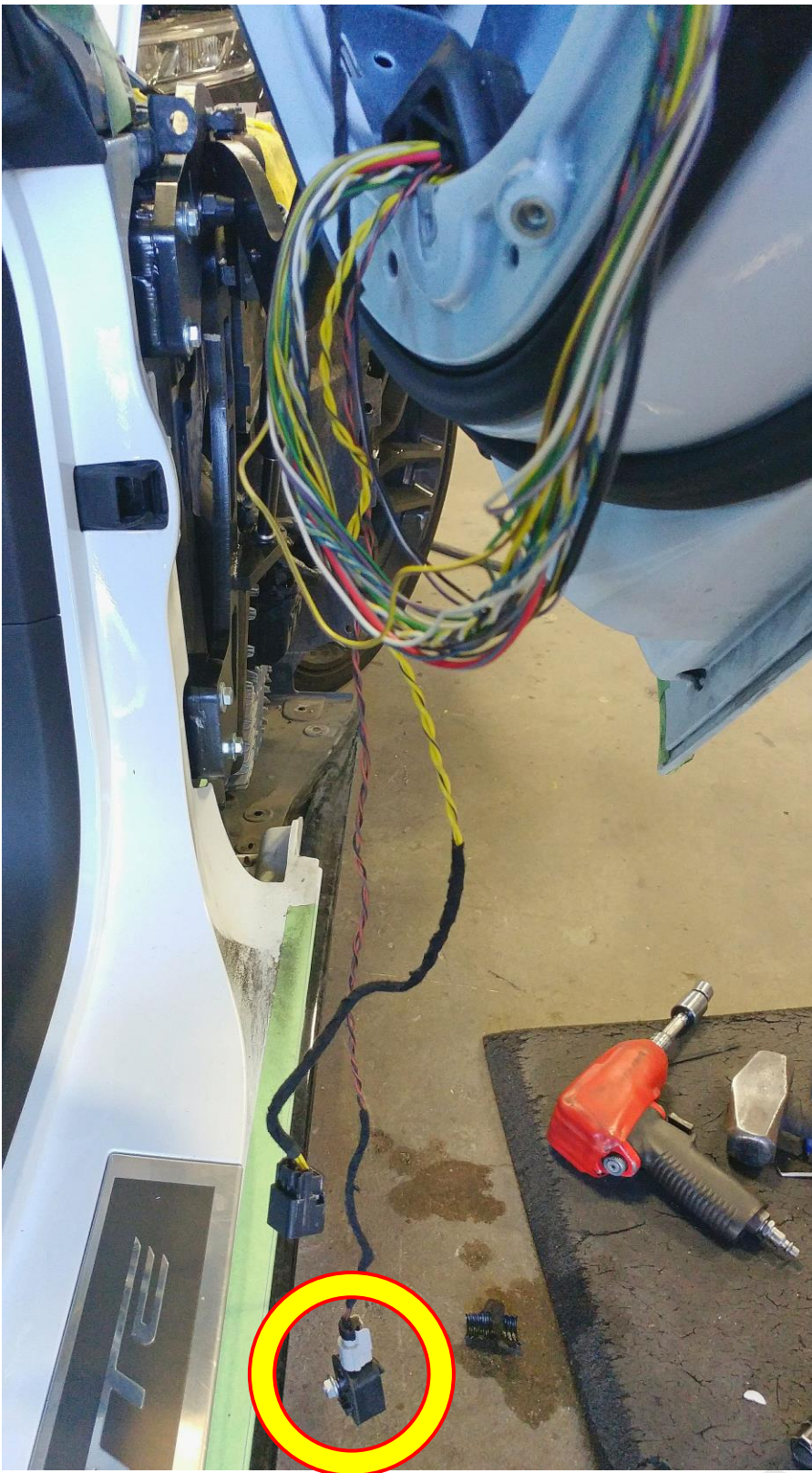


Remove all Screws holding the door panel around the edge

Pull on the door panel to release the plastic retainers

Remove the door catch: Two nuts secure the door catch to the door from the door jamb side





Gain Extra Slack in the Wiring:

After removing the door panel, you will have access to the wire harness. You must undo the hold downs securing the wiring and remove the tape covering the wires. There is one wire in the top of the door that runs all the way to the back of the door (Door release switch) You must release this wire. You may also need to extend it in some cases. Use duct tape or another means to secure this wire to the inside of the door (Outer door skin) so that it will not interfere with the window.

You will have to extend the wires that lead to the AirBag sensor in each door. 2 in the driver's side and 2 in the passenger's side.

You will also have to extend the speaker wires about 6" or you can turn the speaker



In the image we have removed the sensor to show how to extend the wires but you do not have to remove the sensor, just unplug it.

(Kit comes with butt connectors but we recommend you use solder and heat shrink)

Cut the rubber wire boot in half as shown.



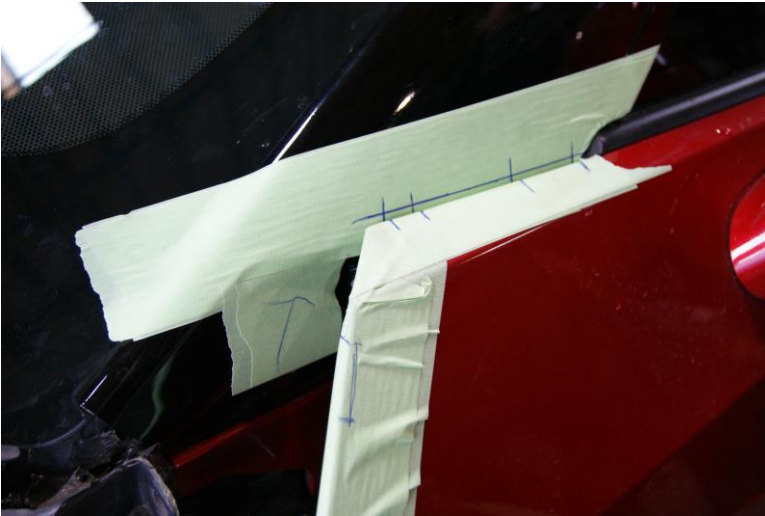
Use friction tape / cloth wire loom tape to protect the exposed wires. If you use regular electrical tape, the wires will not retain their shape and will end up getting pinched between the door and the fender. If you use wire loom it must be stretched tight over the wires and be sure to use the smallest diameter possible.



Secure each end of the boot around the wires with a zip-tie so that it is watertight as shown to the right.

Prepare to Remove the factory hinges.

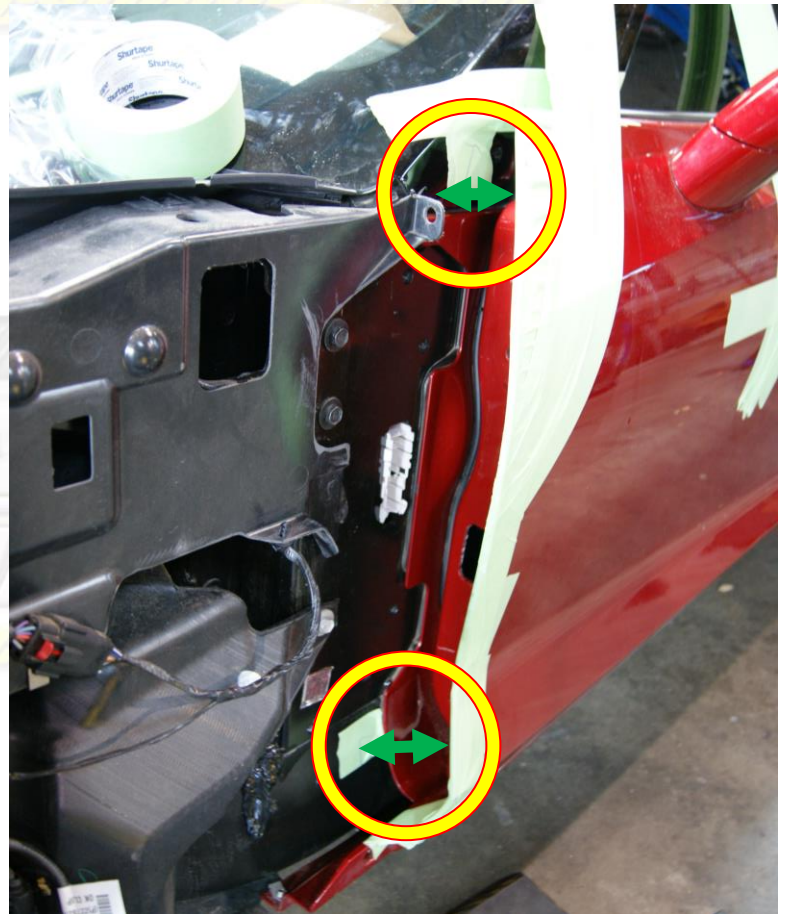
Before removing the factory hinges, use painters' tape to mark the factory door location on the car.



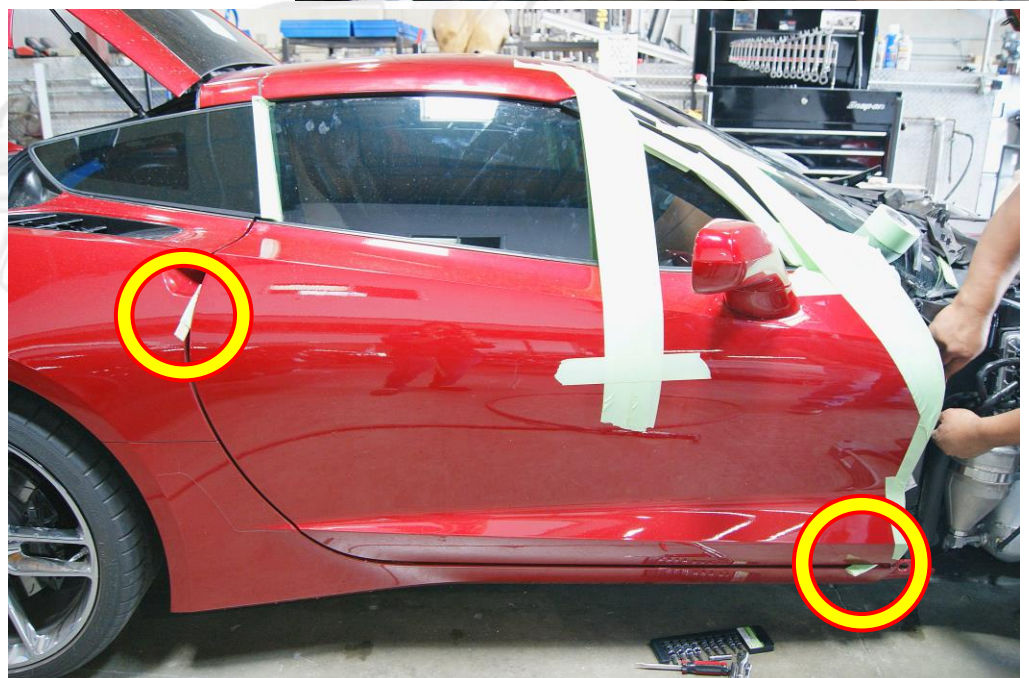
Make sure to measure and mark the distance between the body and the outer door skin at the front of the door by the bottom and top hinge as shown to the right.

***It is very important you mark the exact location of the door before you remove the factory hinges. This will make the install and alignment a lot easier.*

After making sure you have the factory location marked use several strips of 2" painters' tape to secure the door to the vehicle.

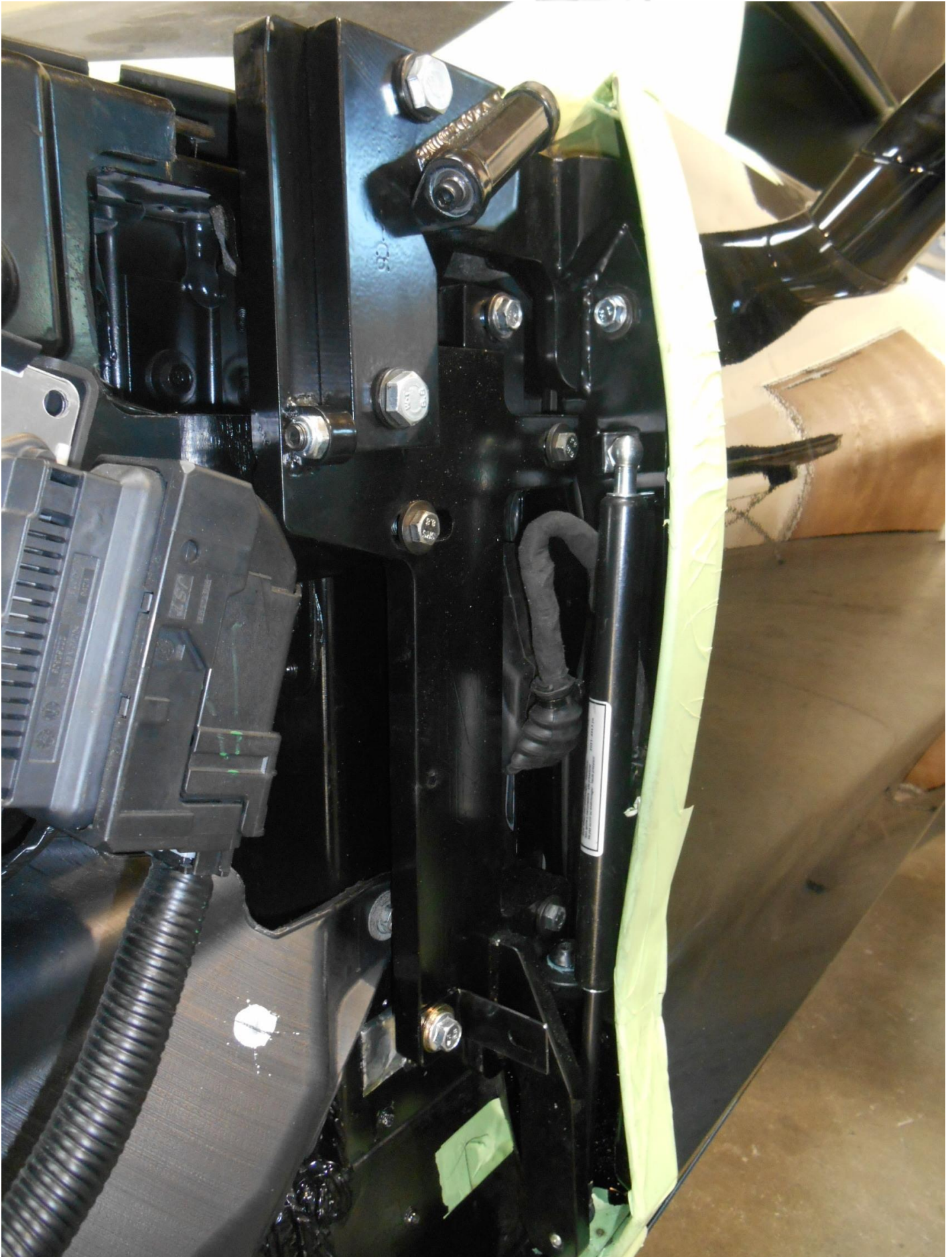


Use paint sticks wrapped with painters' tape as shims so the door does not move (circled to the right)

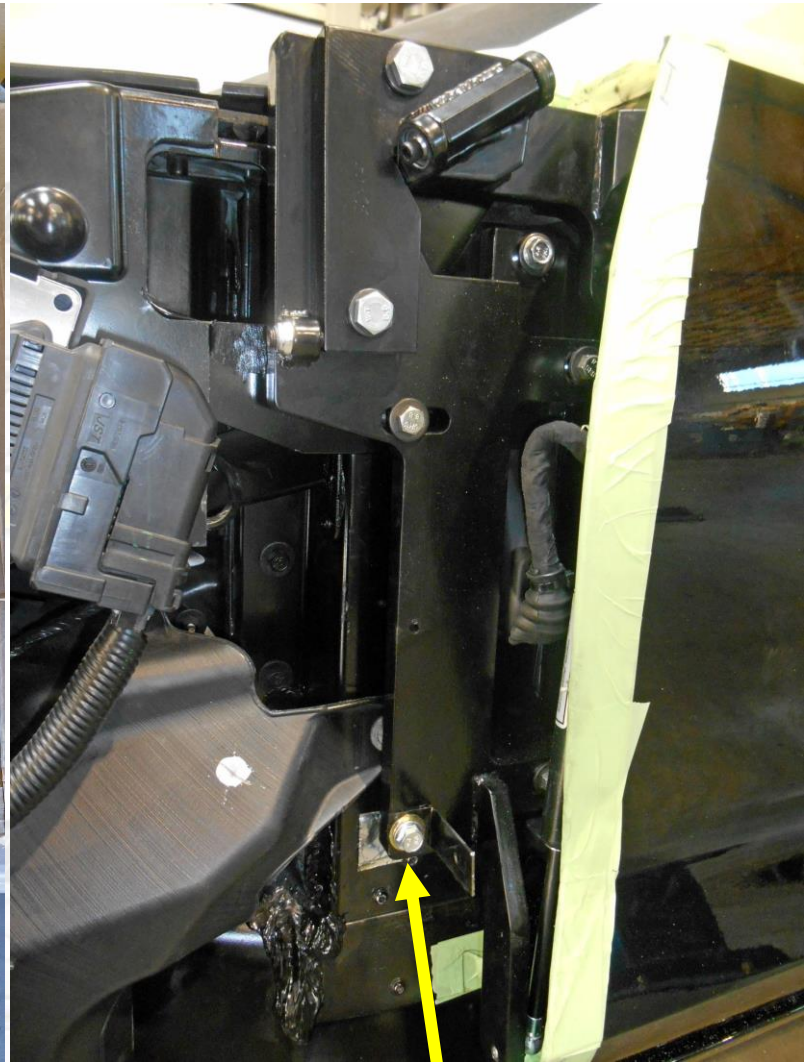
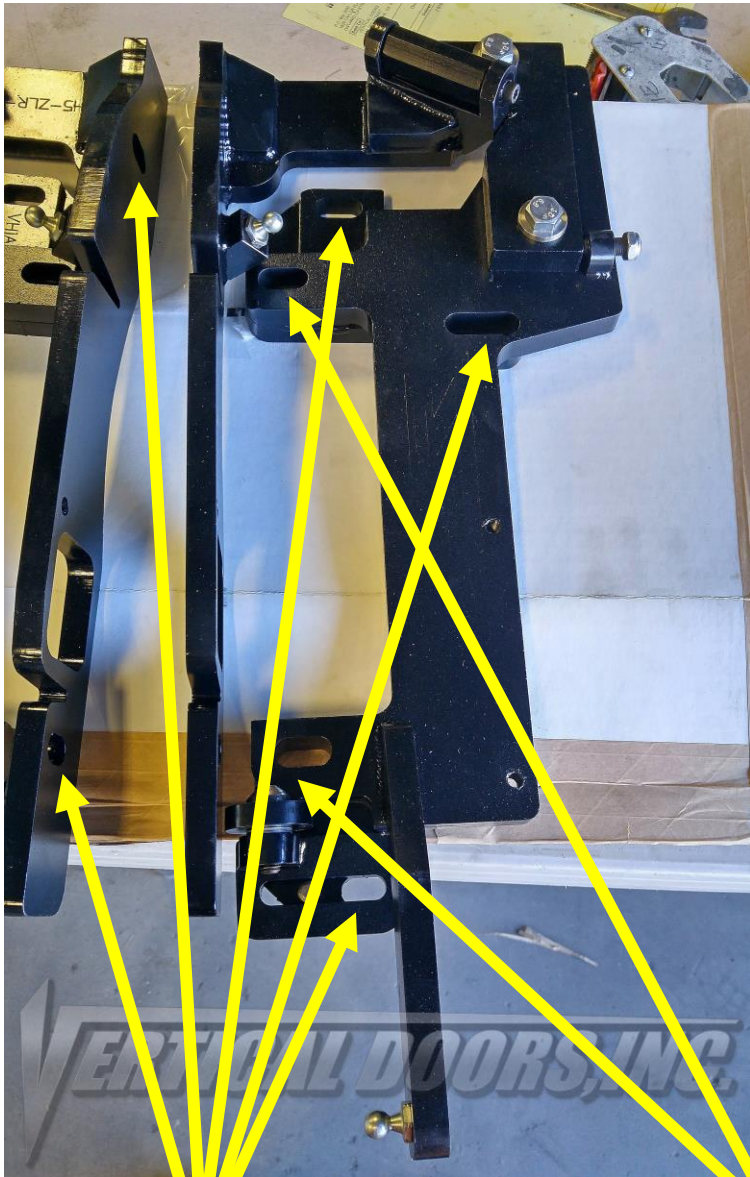


After you have marked the door location, secured the door to the body, and installed the shims, you can then remove the factory hinges and install the VDI Hinge.

For the passenger's side do not replace the CPU until after the new hinges have been fully install.



Now you can remove the factory hinges and install the new ZLR Door kit



5 Shorter bolts (M8-1.25x40MM) go to door

2 Longer Bolts (M8-1.25X60MM) go to body

1 short bolt (M8-1.25X20MM) Hold fender bracket to hinge



Install the shocks:

You will need a helper to raise the door. Remove the safety clip from the ball end and pop it onto the stud end. Use the safety clip to secure the shock to the hinge.



Do the same for the top



Adjust the Hinge: Use an Allen wrench and open-end wrench to make the first adjustment. First loosen the jam nut then turn the Allen wrench. Once adjusted properly, hold the Allen wrench and tighten the nut. This will allow you to make the striker close like factory by moving the back of the door up or down as needed.

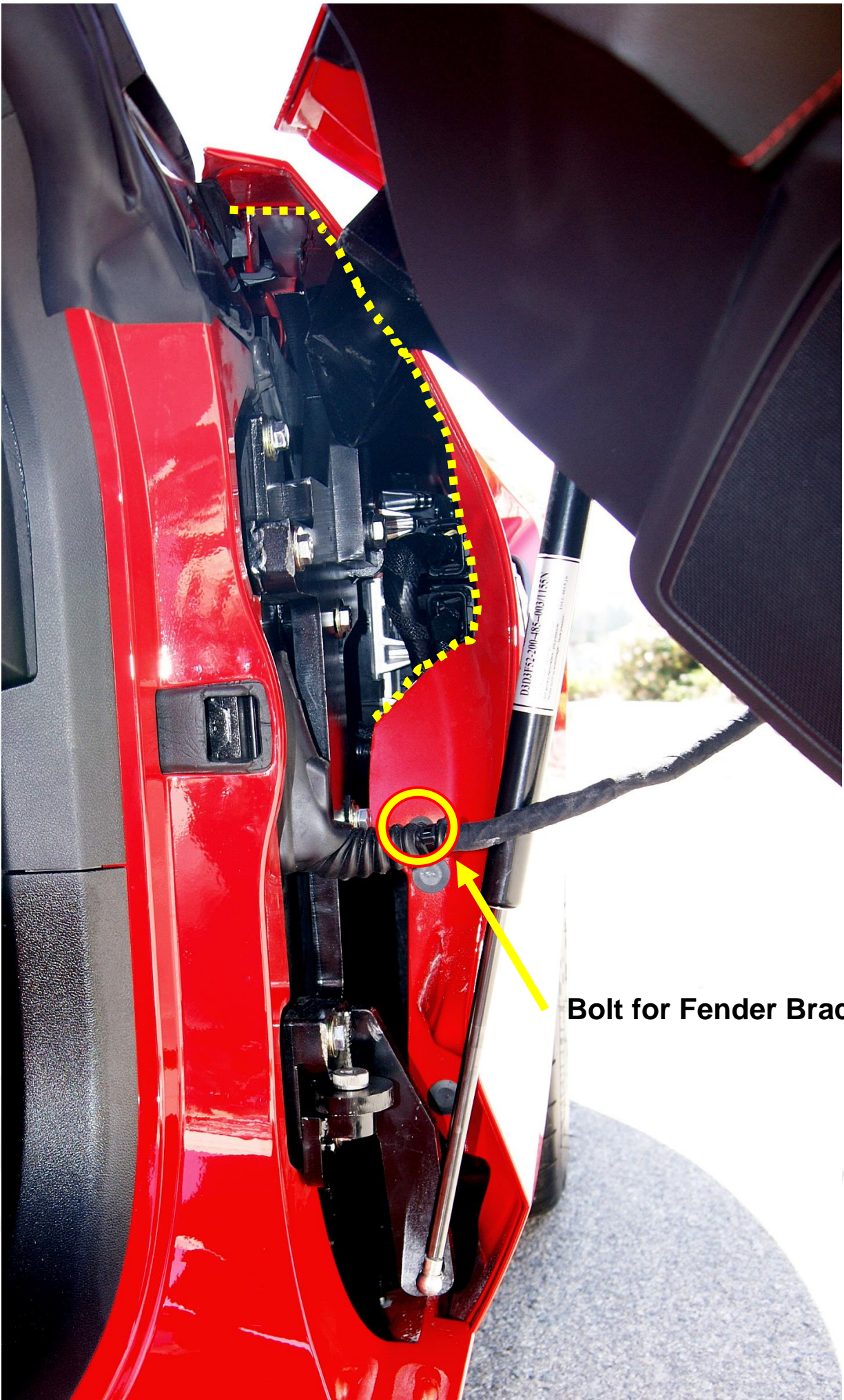


Adjustment #2:



With the door closed, Loosen the bolt and slide the adjuster forward/back so that the wheel is about 1/16" from the hinge.

Cut the inner lip of your fender to make room for the new ZLR Door kit. View the dotted line on the photo below. All you need to cut is just enough for the kit to move freely.



Bolt for Fender Bracket

Drill new hole for support bracket...use the M6x1.00 bolt and threaded clip

Use a power cutter and grinder to cut and take any sharp edges off. touch it up with paint to give it a finish look.

Lift the door and Replace the fender

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

For the other side just follow the same steps.

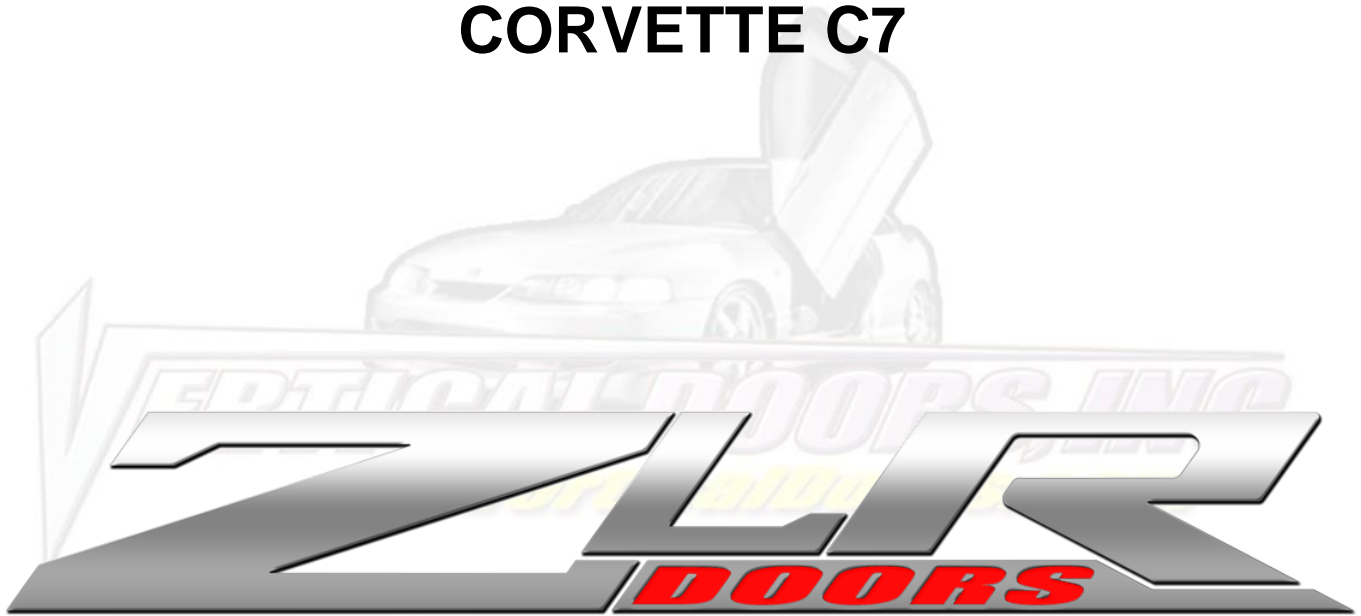
Note: Do not install fender until the adjustment of the door is accurate, and the set screw is tightly secure. Also make sure everything is tight, adjustment is set and everything is Loctite.

How to reset your Window Sensor:

Make sure both plugs are connected. Close both doors with the car on. Roll both windows up and hold the window switch up for 10 sec and roll down and hold for 10 sec. this should reset the window sensor. For more details contact your local Chevrolet dealer.



**Thank you for your purchase of the
ZLR DOOR KIT FOR YOUR
CORVETTE C7**



BY



NOTE:

Vertical Doors Inc. assumes no responsibility for any damages caused by improper installation.