

## Sport Sway Bar Kit

22841

2014+ BMW M235i

2012+ BMW 335i

2014+ BMW 435i

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Please call us at 877 - 4NO - ROLL if you have any questions  
regarding the service or installation of your Hotchkis Performance products.*

IMPORTANT: PLEASE READ THE ENTIRE INSTRUCTION MANUAL BEFORE  
STARTING THIS INSTALLATION.

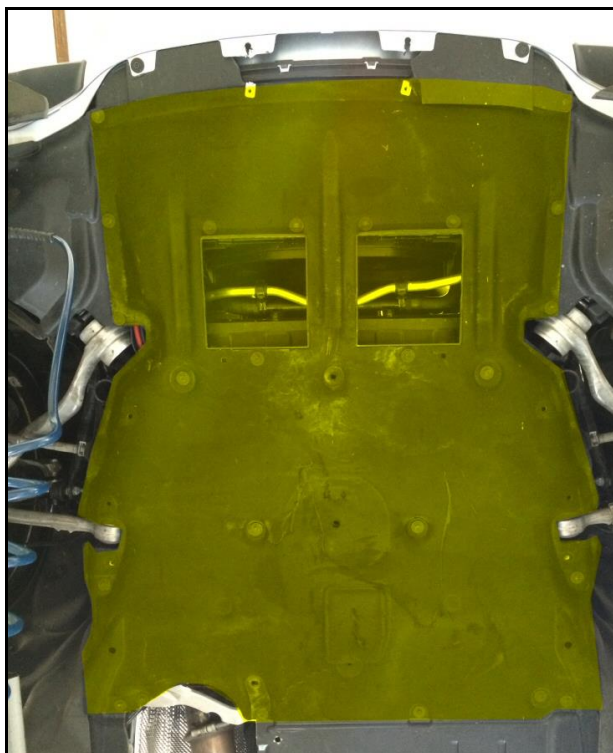
## Front Installation

- 1F We highly recommend using a drive-on lift for safety. Use a four post lift or alignment rack and raise the vehicle to access the undercarriage. Next raise the front of the vehicle with the bridge jacks at the OE jack points. Raise until just before the wheels lift off the rack. Chock the rear wheels to keep the car from rolling.



- 2F Remove most of the front covers and panels to expose the front subframe. See the specific steps below.

Remove the center large felt cover.



Remove the center plastic panel.





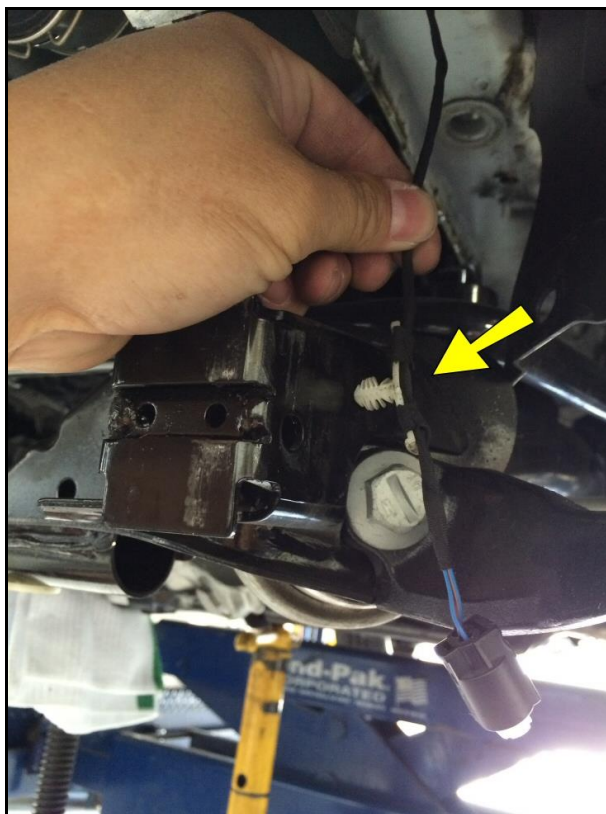
Remove the Corner plastic panels.



Disconnect this connector on the driver side panel.

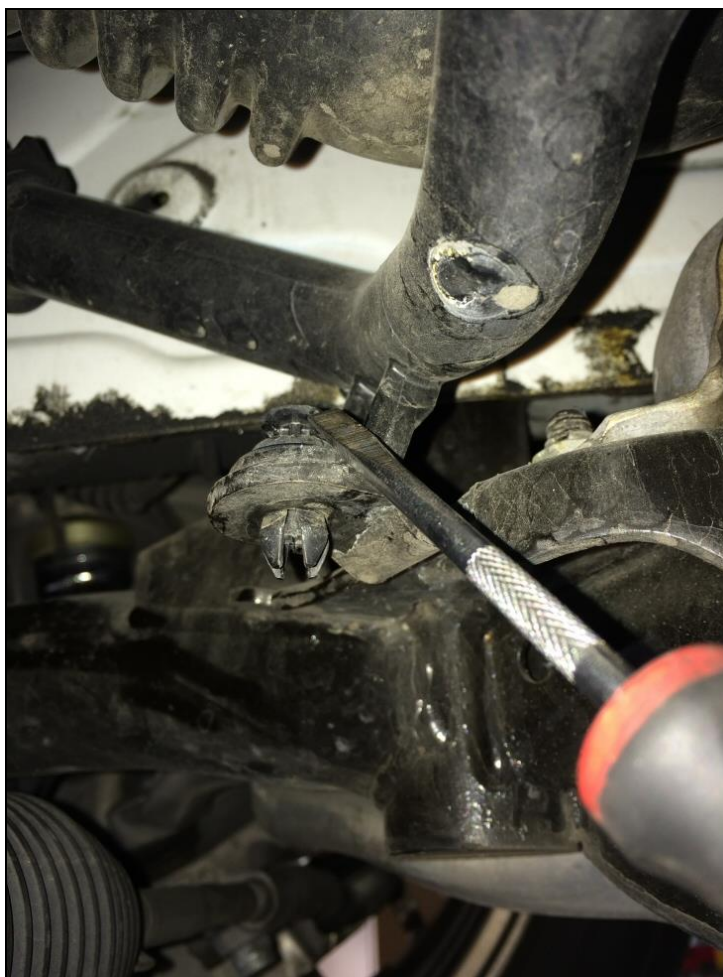
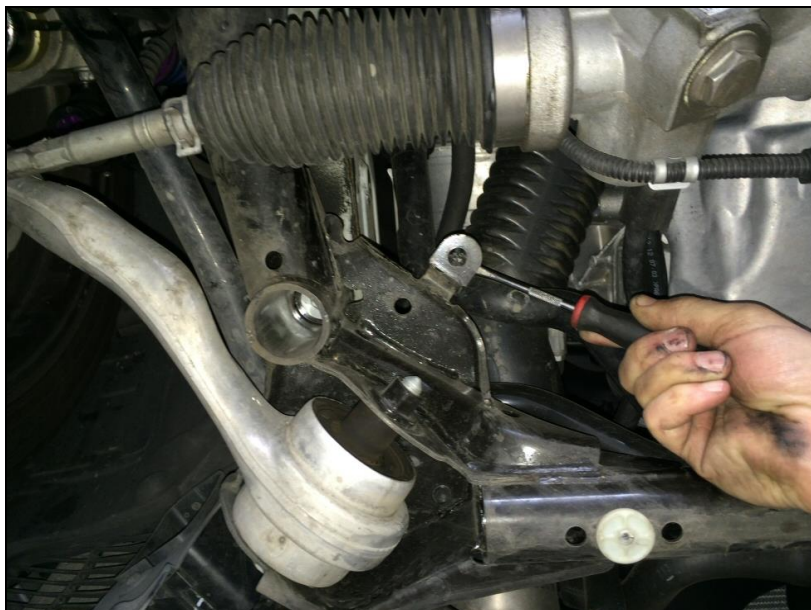


Pop the plastic push-in rivet holder from the subframe. (Note picture shows subframe already dropped for clarity.)





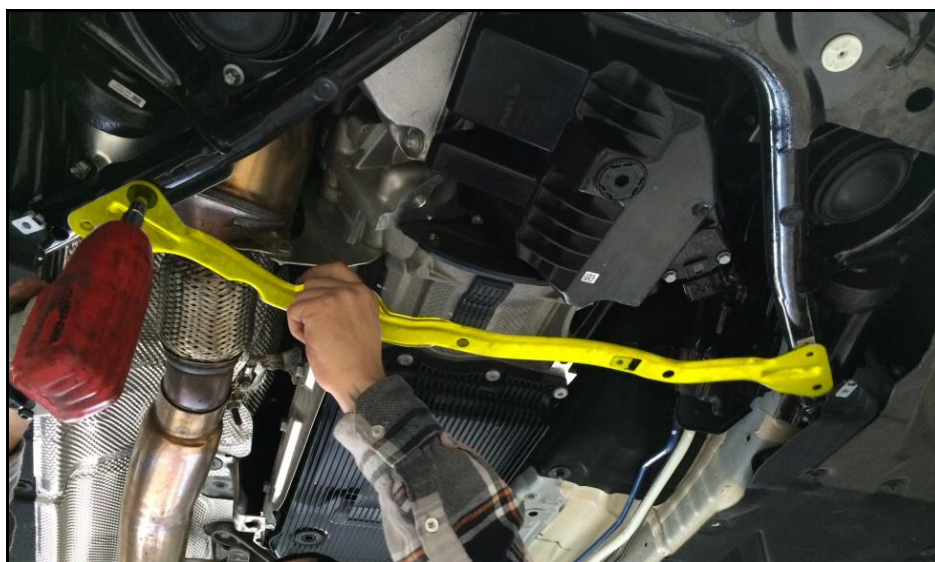
Pop this push-in rivet to release this line.



Remove the plastic center side panels. Both sides.



Remove the aluminum cross piece.

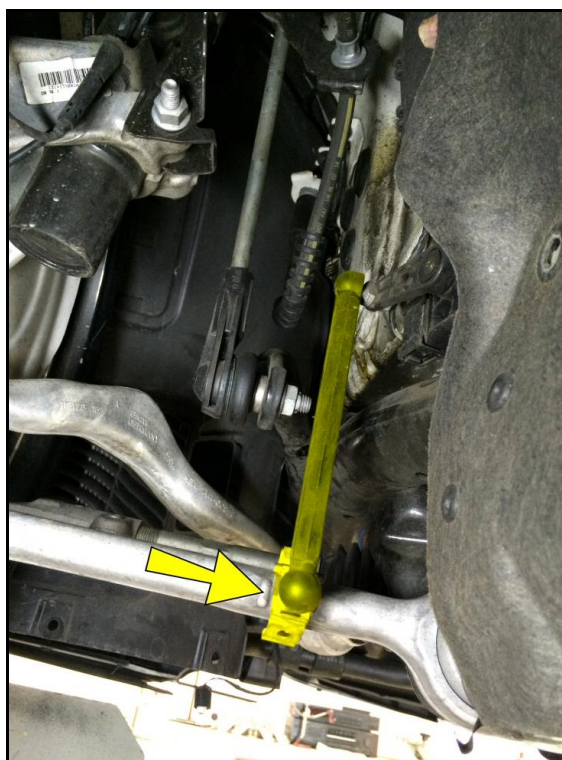




Remove the (1 per side) torx bolt located on the inner fender liner shown below.

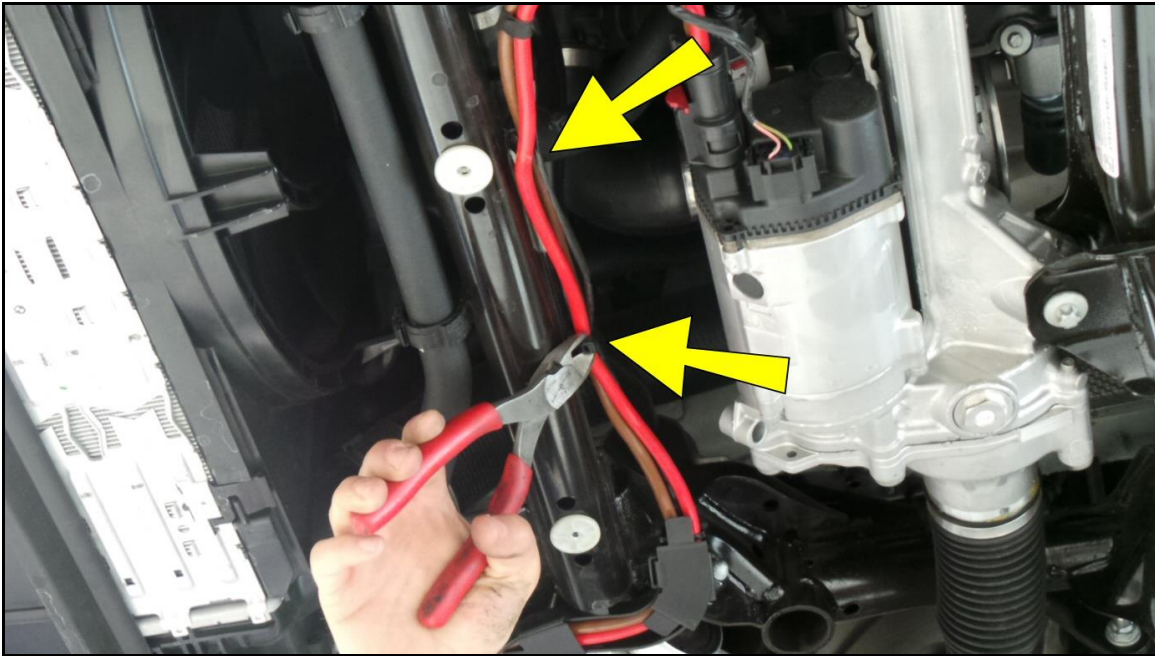


3F Unclip the ride height sensor.

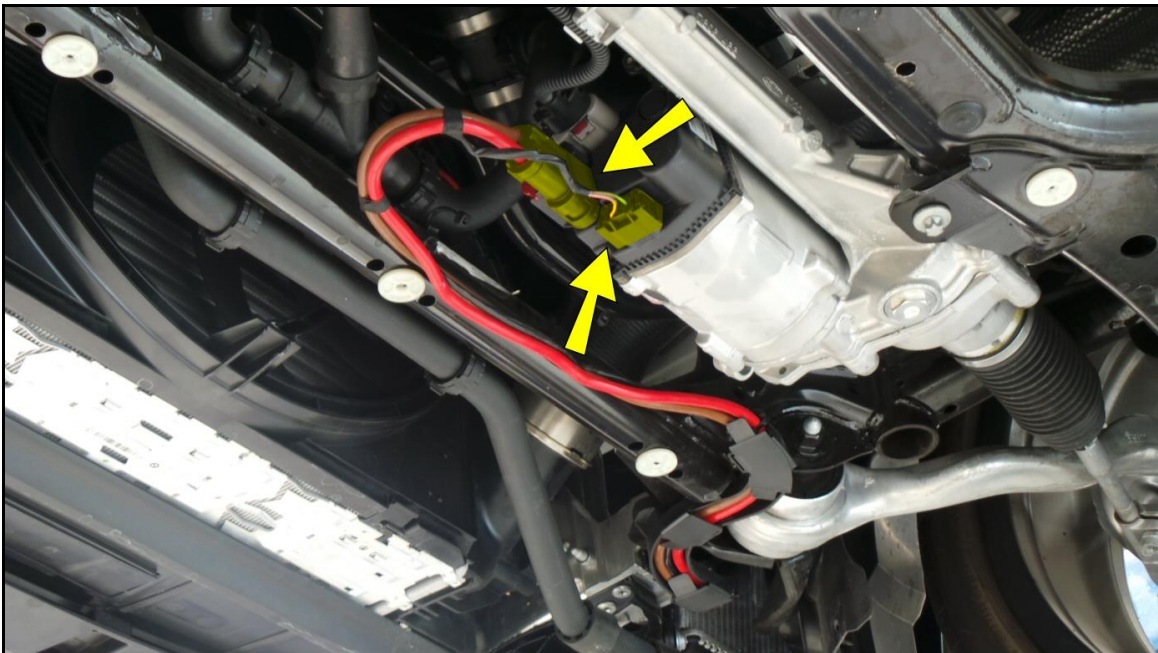


- 4F To allow the subframe to drop down, you will need to disconnect the power steering cables from the electric power steering unit.

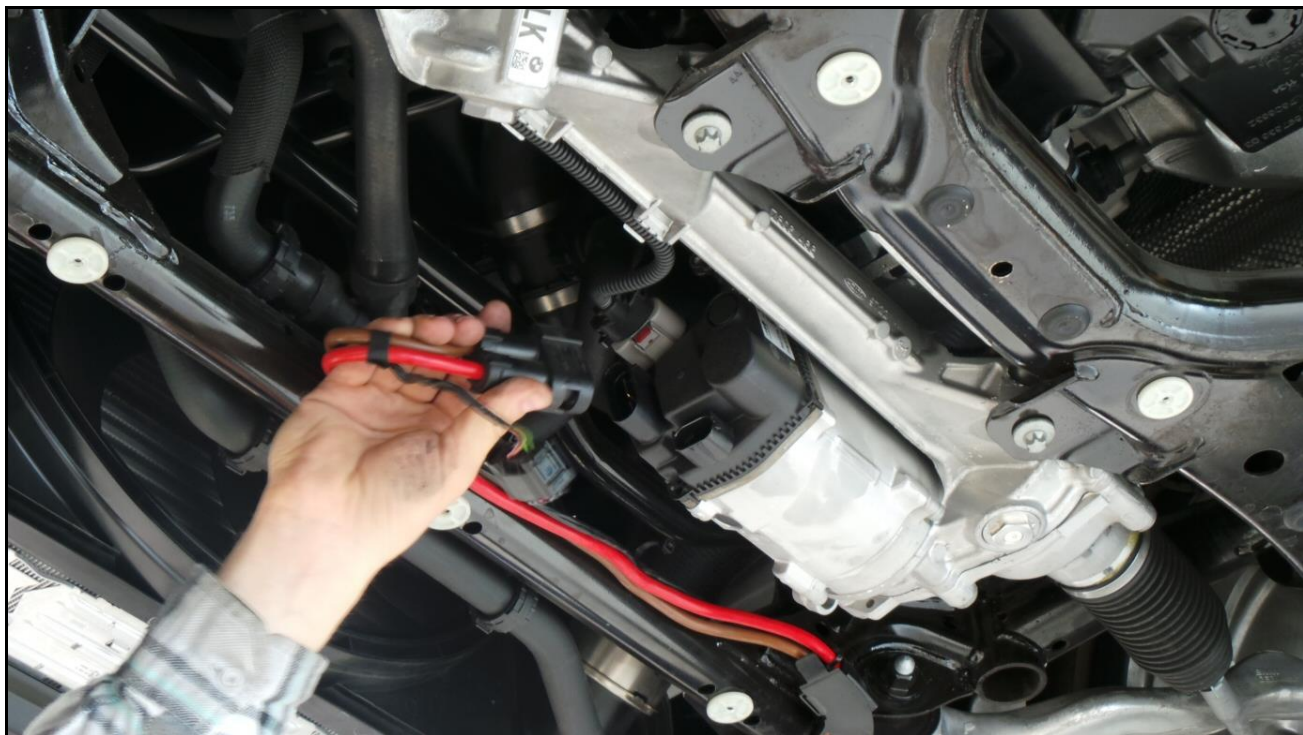
First cut the (2) zip ties that secure the cables to the subframe. Your Hotchkis kit includes new zip ties.



Next, disconnect the small connector and large connector from the power steering unit.







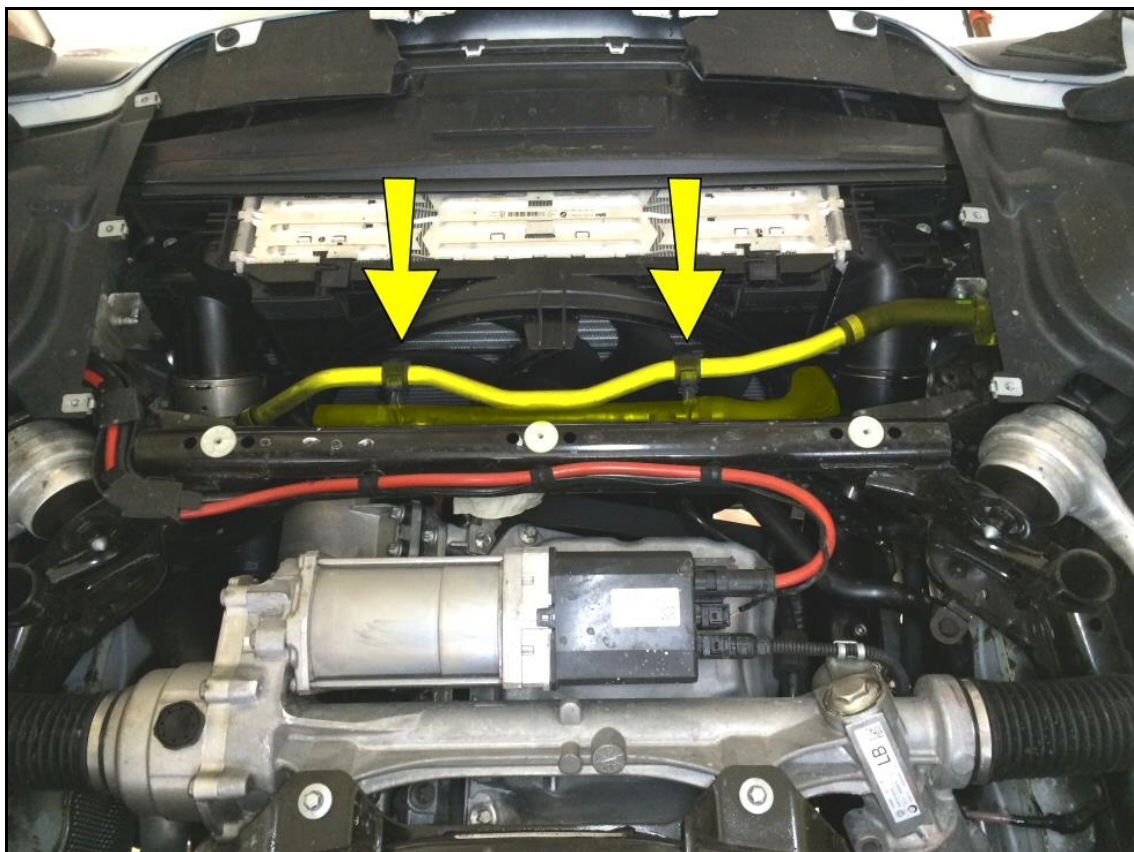
Pull the plastic wire carrier out of the way.



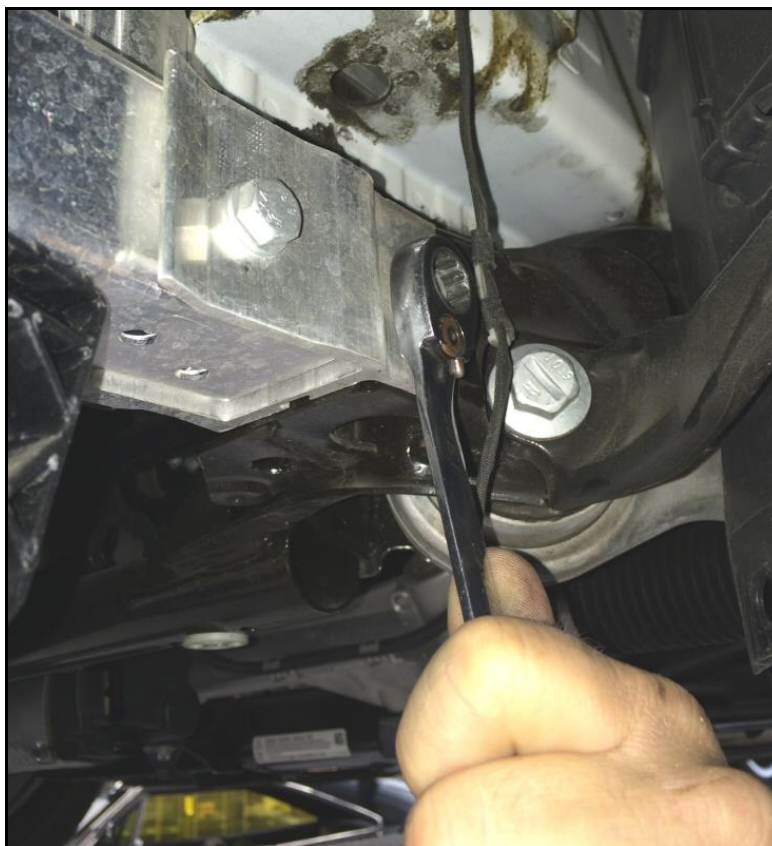
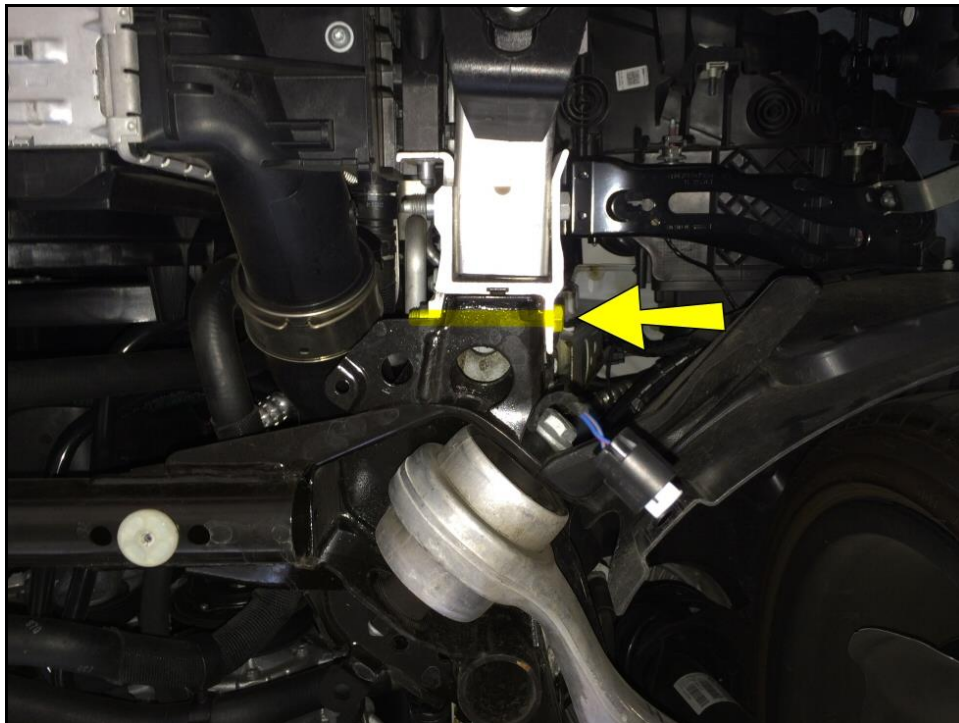




5F Unclip this coupled lines from the subframe.

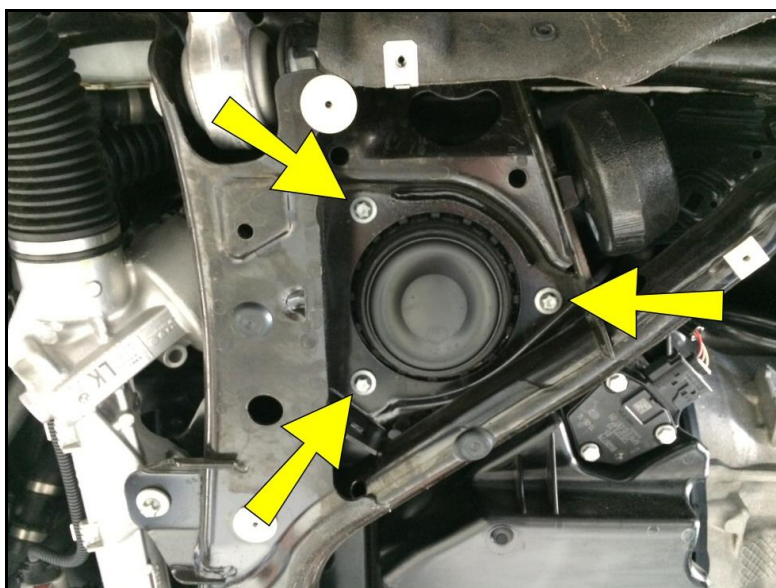
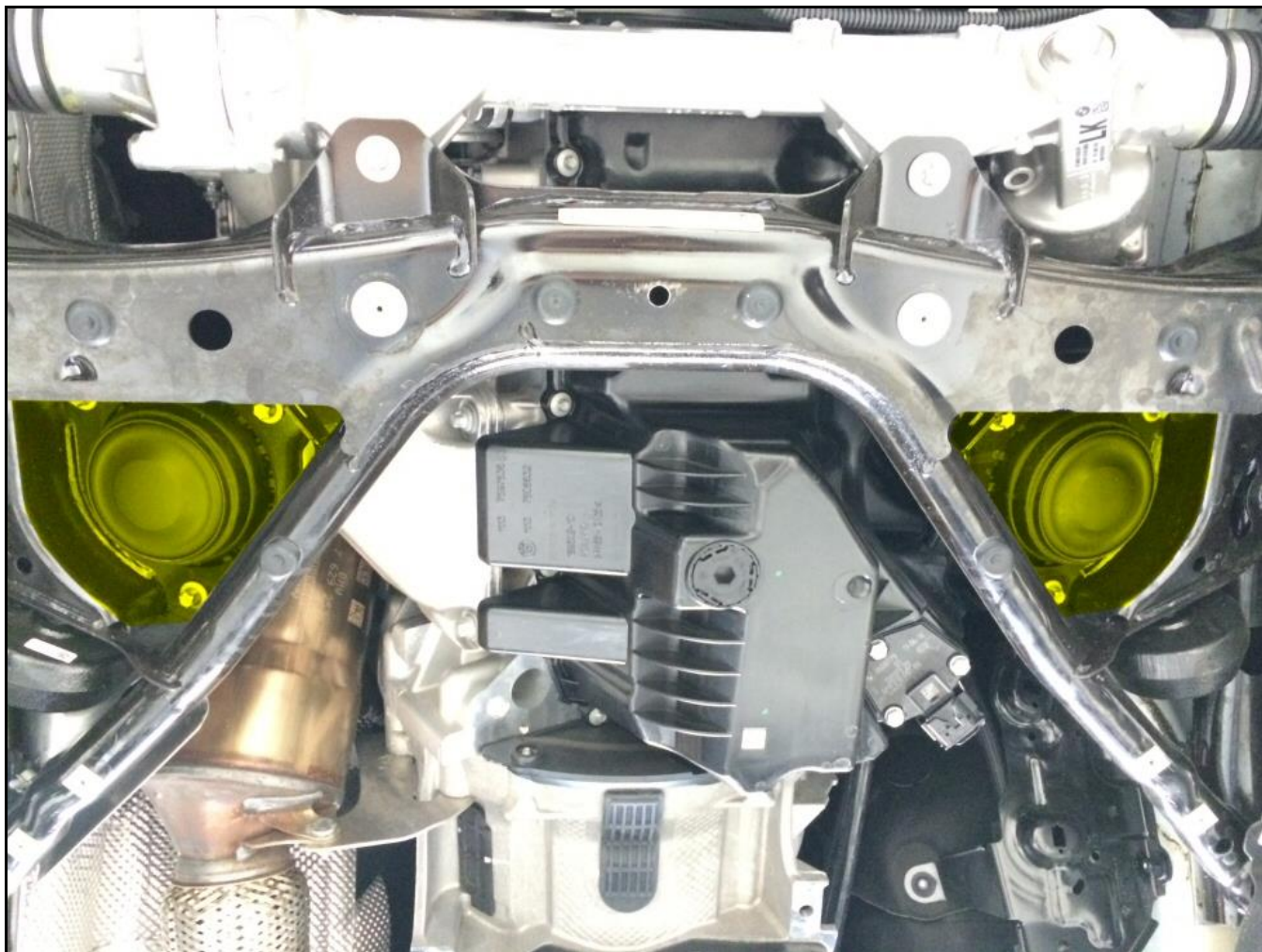


- 6F Remove the (1) bolt attaching the subframe rail to the aluminum radiator support. (1) bolt per side.

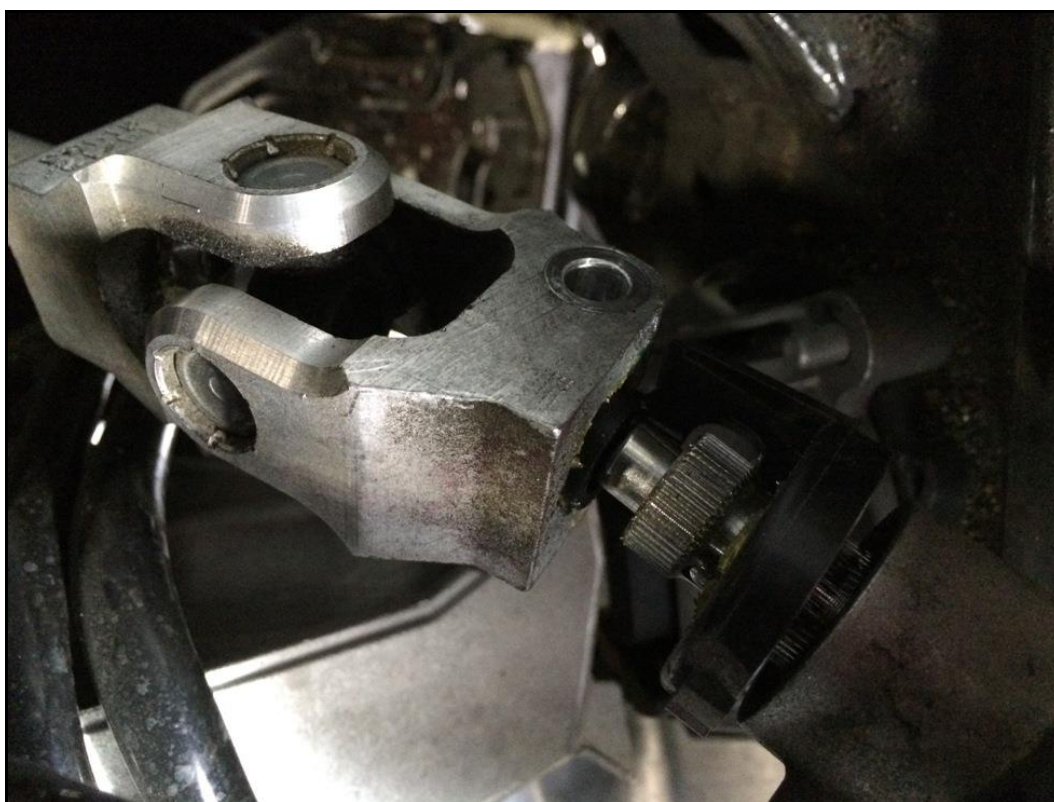
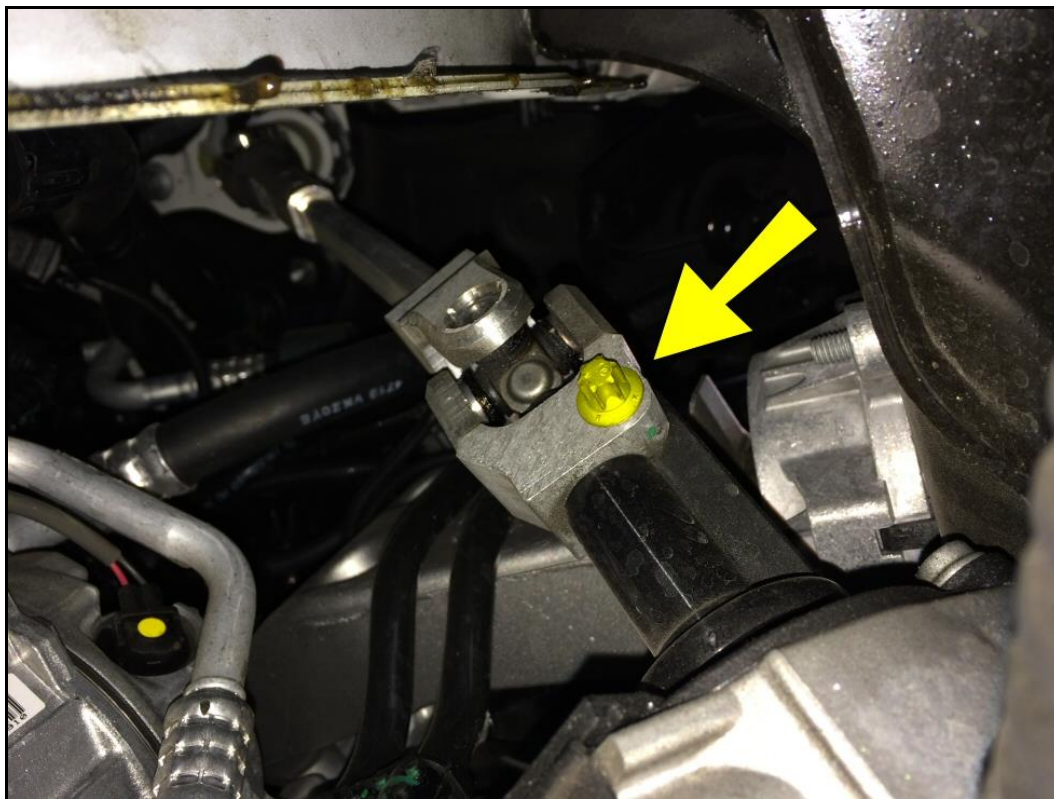




7F Remove the (3) bolts per motor mount.



- 8F Disconnect the steering column from the steering rack by loosening the e-torx bolt.

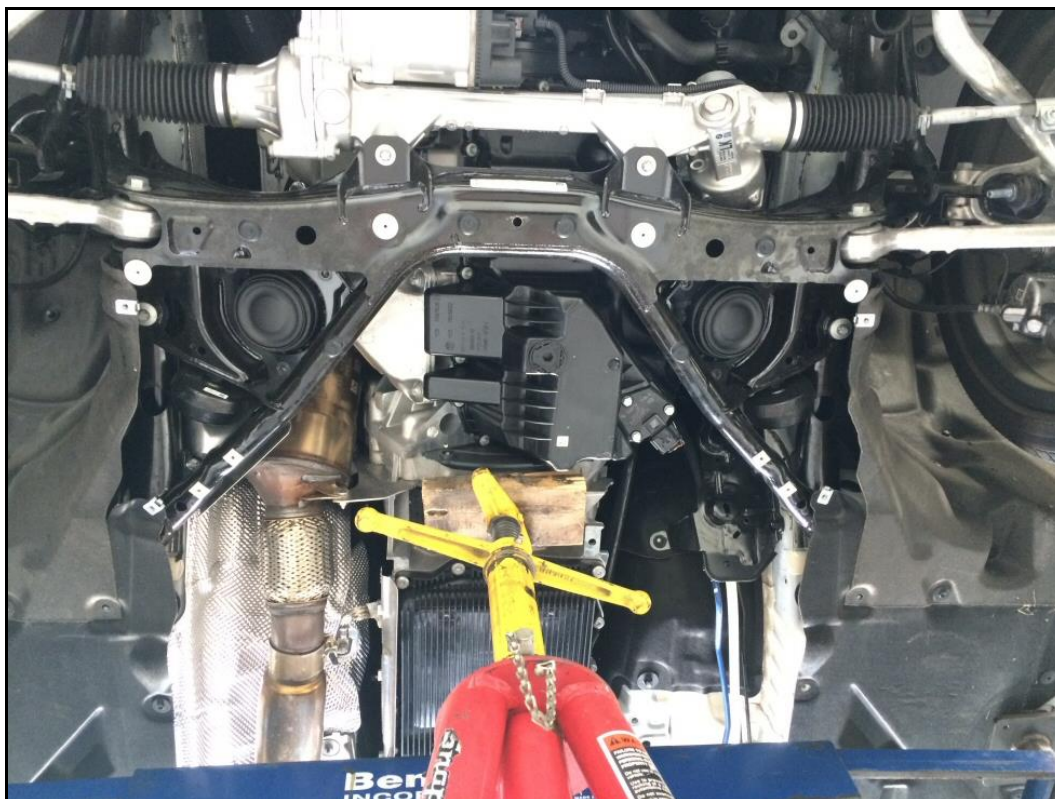




- 9F Disconnect the end links from the front sway bar.



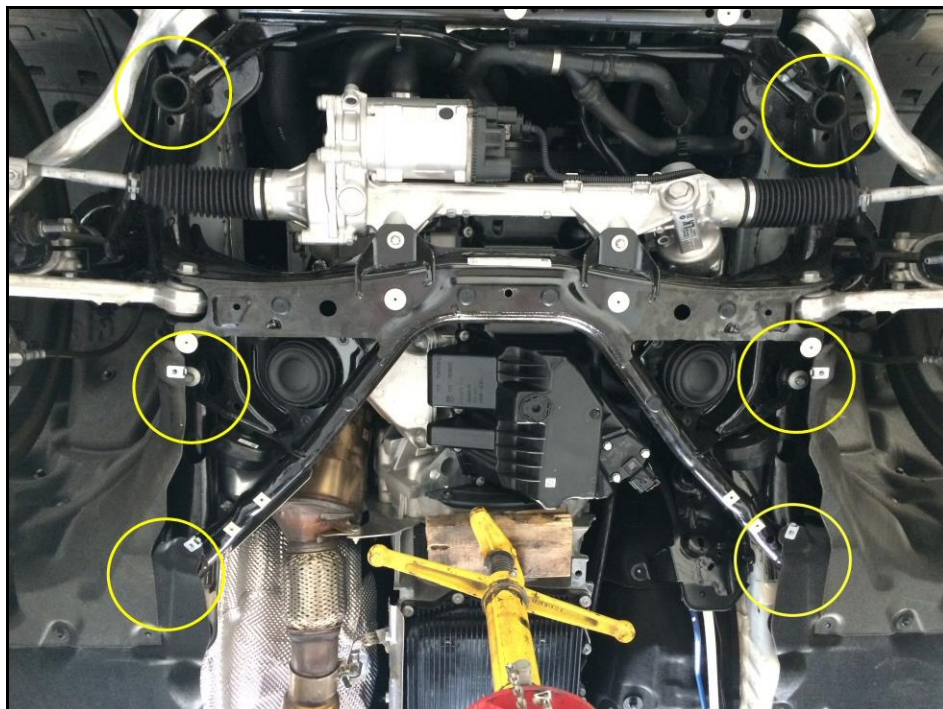
- 10F Use a screw jack and support the engine/trans at the point shown below.



11F Use another screw jack and support the front subframe.



12F Unbolt the (6) mounting bolts securing the subframe to the chassis. Lower the subframe to access the front sway bar.





Active Hybrid ONLY:  
Unbolt this bracket on both sides.



- 13F Unbolt the bushing bracket nuts. (2) nuts per bracket. Retain these nuts for later use.



Remove the bar from the vehicle.





- 14F Place the Hotchkis bar next to the OE bar to compare. Grab the Hotchkis front bushings (larger pair) and grease the inner surface with the provided lube.



15F Install the bushings onto the bar as shown below.

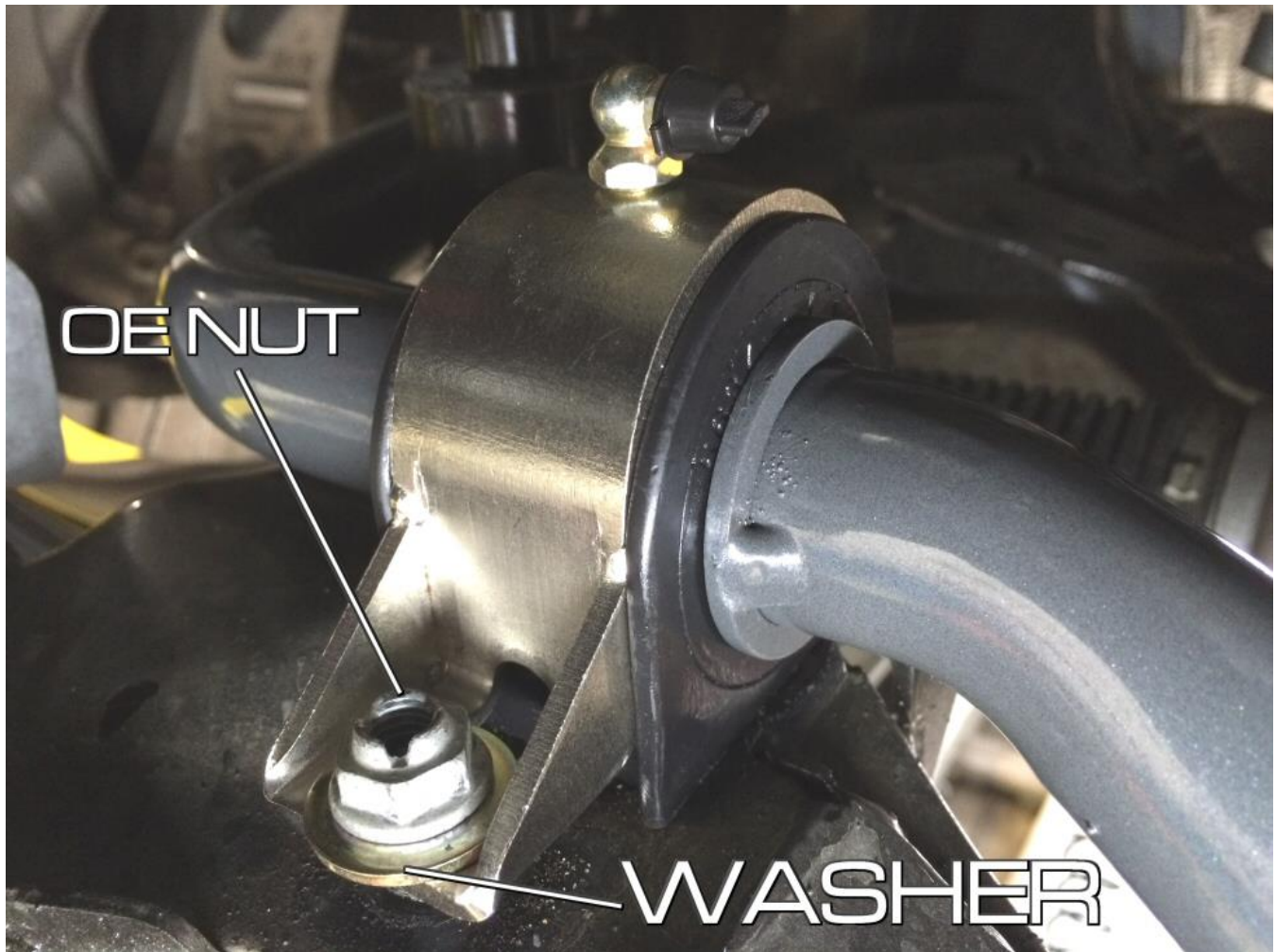


Reinstall the Hotchkis sway bar in the same manner as removal.





- 16F Grab the Hotchkis bushing brackets (larger pair) and install them onto the bushings. Use the provided (4 of 8) washers for the (4) OE bushing bracket nuts. Have the grease fittings pointing inboard.



- 17F You can now reverse steps 1-12F to return the subframe back on to the car.

- 18F When bolting up the end link back onto the front sway bar, you have (2) hole choices. The soft hole will be the closest to the end and the stiff hole is the furthest. Make sure to use the same hole for both sides. Do not use the soft hole on one side and the stiff hole on the other.



You are finished with the front sway bar installation.



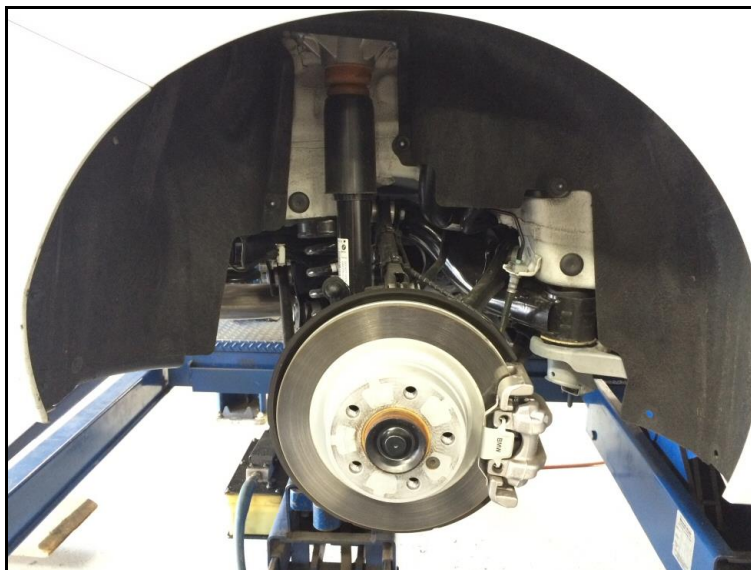
## Rear Installation

- 1R Raise the vehicle to gain access to the undercarriage by using a 4 post lift. Securely block the front wheels of the vehicle.

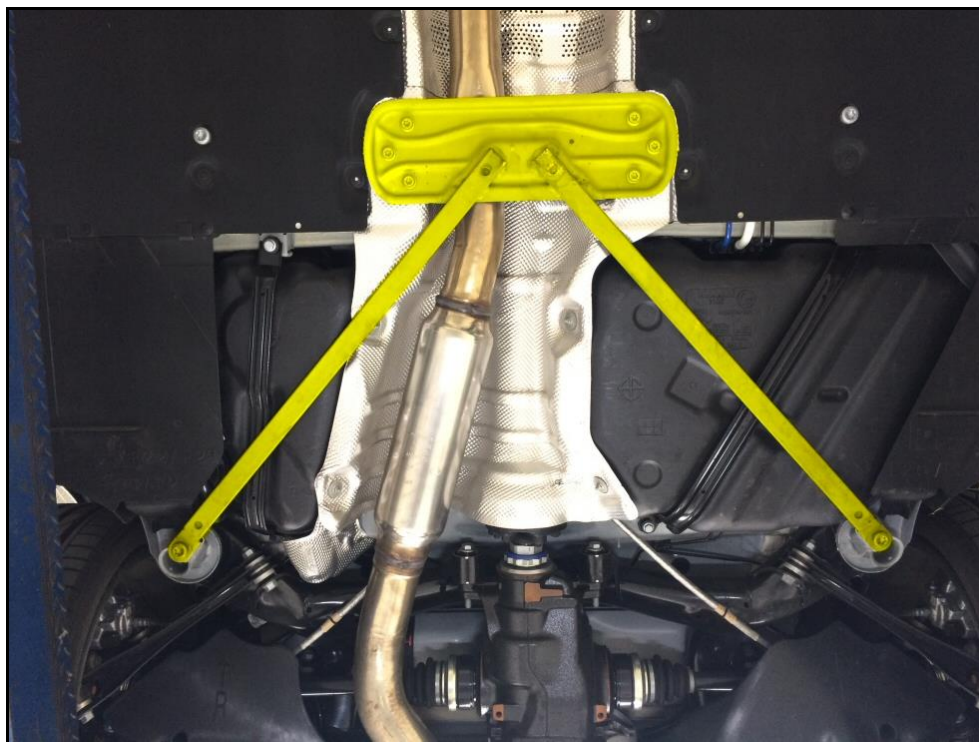
Use the bridge jack and lift the rear section of the car at the OE jack points. (Note: Most 4-post or alignment racks have (2) bridge jacks. Roll the rearward bridge jack all the way to the back and use the forward bridge jack to lift the vehicle. The rearward bridge jack will be used to support the rear-end and subframe later in the install.)



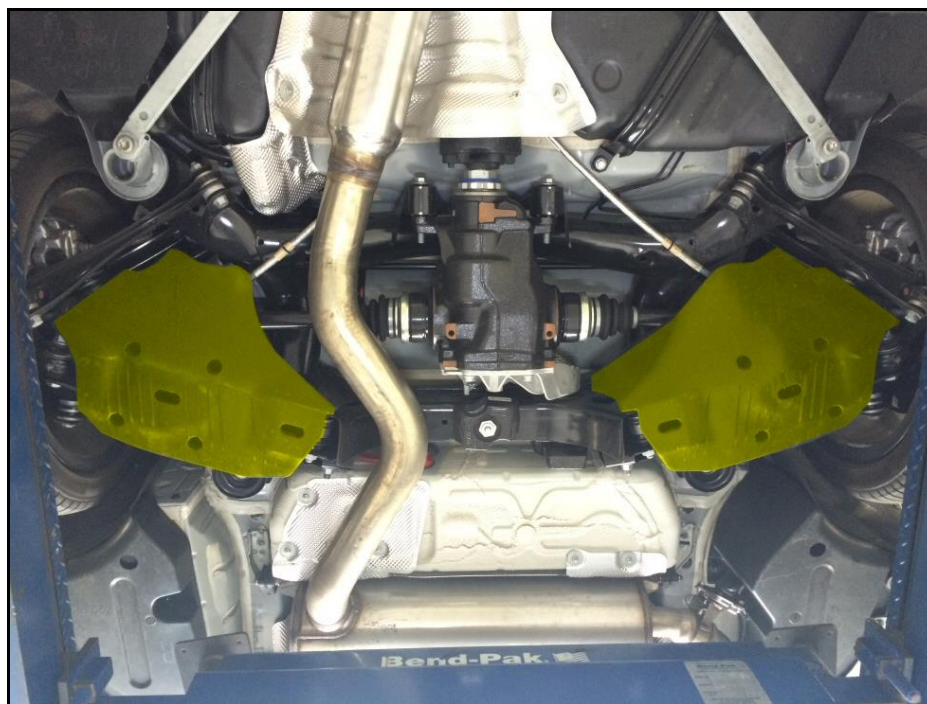
Remove the rear wheels



- 2R Remove the under chassis brace (if equipped) to allow the exhaust to drop down. Some vehicles will have just the bridge plate. In any case you will need to remove it to allow the exhaust to be dropped later in this install.



- 3R Remove the aero guard from the lower control arms.







- 4R Next remove the plastic panels in front of the rear wheels. Do so by first removing the (2) push-in rivets in the fender well.

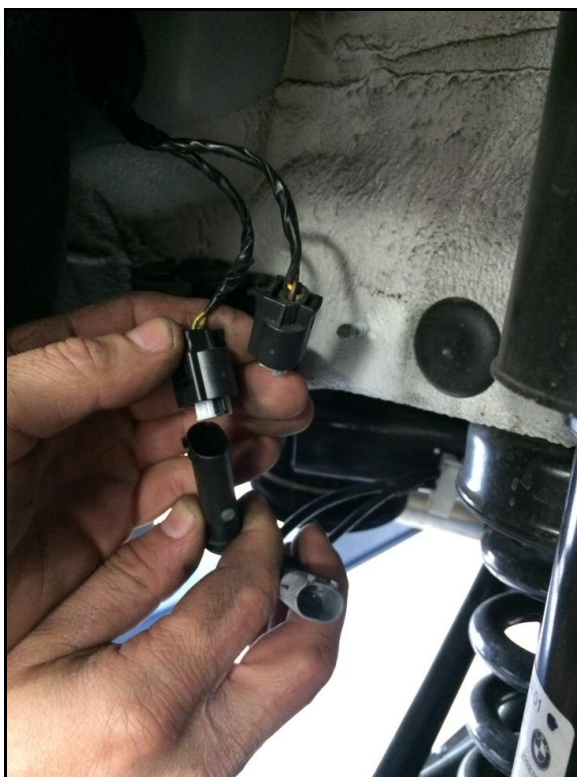


Next, remove the push-in rivets that secure plastic panel itself. This exposes the front support brackets for the subframe.

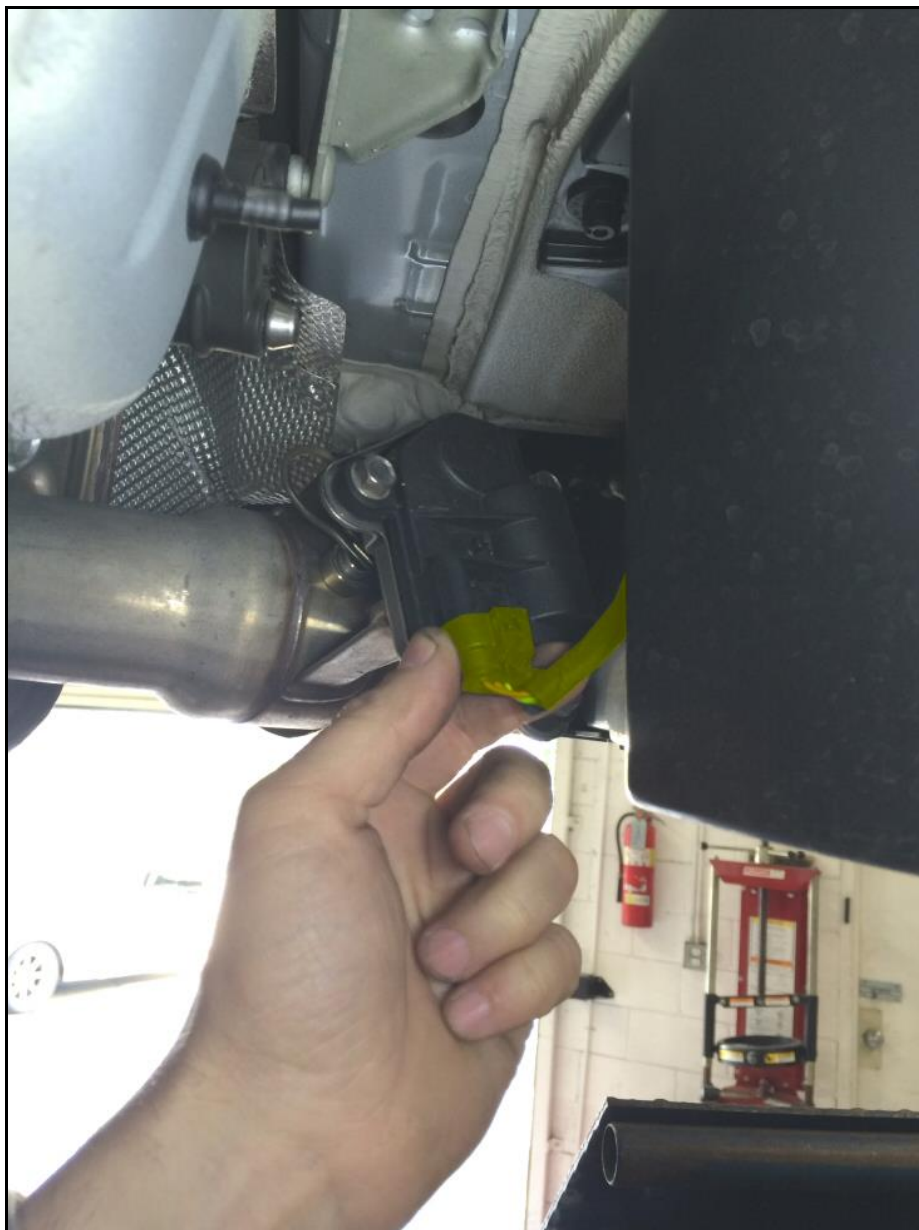




5R Undo the sensor connectors on each side.



Disconnect the exhaust harness.

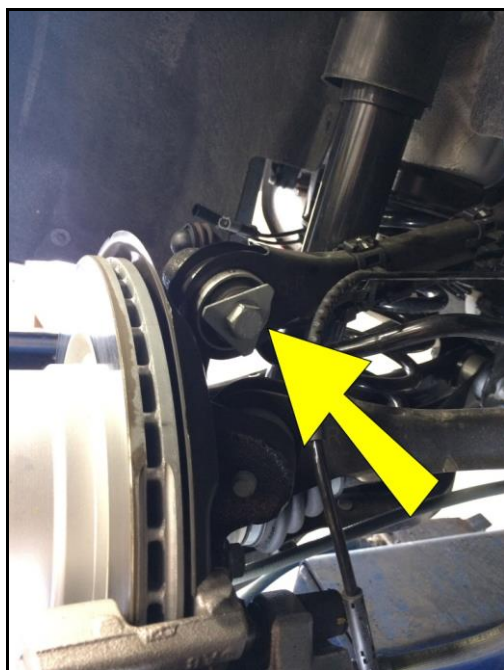




6R Unclip the wires attached to the upper link.



Unbolt the upper link at the outboard side near the upright.



7R Unbolt the end links from the sway bar.

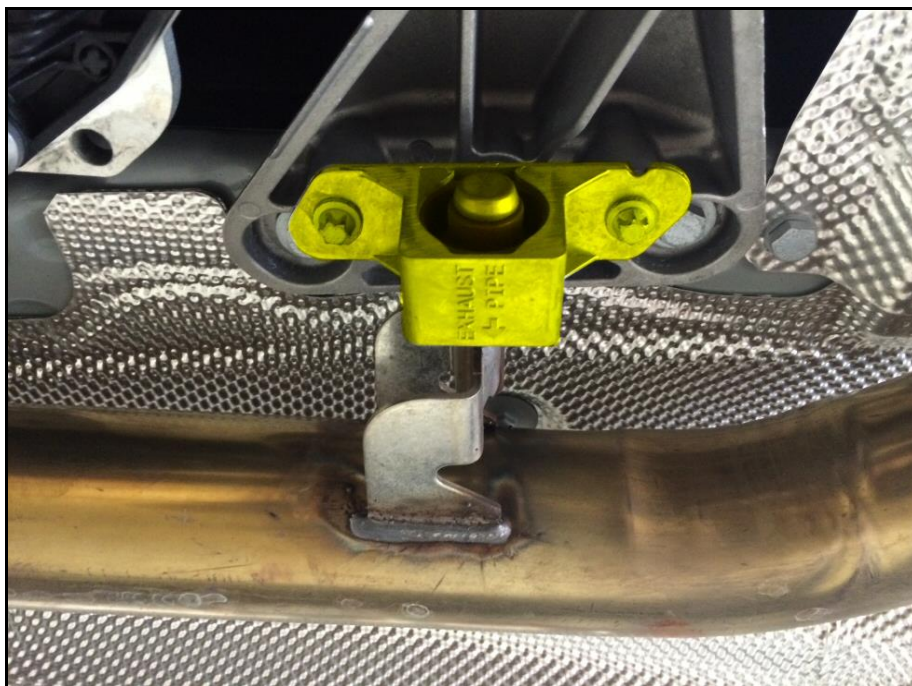


8R Remove the lower shock mount bolt.





9R Disconnect the (3) exhaust hangers to drop the exhaust.



Allow the exhaust to droop down slightly.



10R Unbolt the differential ground strap either from the car or from the diff.





- 10R Using the rearward bridge jack or screw jack and tall blocks of wood, support the rear-end.



- 11R Unbolt the subframe from the vehicle. There are (2) support brackets holding up the front and (2) subframe bolts securing the back.

Undo the (3) bolts per support brackets in the front.





Unbolt the (2) rear subframe bolts



- 12R Slowly lower the bridge jack holding the rear-end/subframe. Make sure all of the wires or lines are disconnected and not in tension while lowering.



- 13R With the subframe lowered you are now able to undo the (2) bolts per bushing bracket on each side. Retain these bolts for reinstallation.





- 14R Fish the rear sway bar out from the vehicle. Take note of the orientation of the bar as you remove it.



- 15R Place the OE bar next to the Hotchkis Bar to orientate the new bar.



Grease the inner bushing surface with the provided lube.



16R Reinstall the Hotchkis sway bar in the same manner as removal.





17R Install the Hotchkis polyurethane bushings onto the sway bar. Install the bushing bracket with the 90° grease fittings pointing outward.

Use the provided remaining washers and OE bolts and fasten the bushing brackets down. Fully tighten these bolts at this time.



18R Repeat steps 1-12R in reverse order.

You are now finished with the rear sway bar installation.

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Mooresville, NC 28117

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