66854

2013-2015 DODGE 3500 6” GAS OR DIESEL KIT

66854 2013-2015 Dodge 3500 6” Basic Kit W/ Coil Spacers

66854-4 Component Box 1
2) 6” Coil Spacers
1) 6”Left Radius Arm Drop Brackets
1) 6” Right Radius Arm Drop Brackets
1) Track Bar Drop Bracket
1) Left Sway Bar Drops
1) Right Sway Bar Drops

Hardware Bag 1
1) Pitman Arm Sleeve
1)1.375 Hardened Washer
3) ½” x 1 ½” Bolts
3) ½” Nut Inserts
3) ½” Washers
1) 18mm x 90mm Bolts
1) 18mm Nylock Nuts
2) 18mm Washers
9) 7/16” x 1 ¼” Bolt
9) 7/16” Nylock Nut
17) 7/16” Washers
1) 7/16” Large Dia. Washer

Hardware Bag 2
8) ½” x 1 ½” Bolts
8) ½” Nut Inserts
8) ½” Washers
2) 18mm x 130mm Bolts
2) 18mm Nylock Nuts
4) 18mm Washers

Hardware Bag 3
1) Left Brake Line Bracket
1) Right Brake Line Bracket
2) 5/16” x 1” Bolts
2) 5/16” Nylock Nuts
4) 5/16” Washers

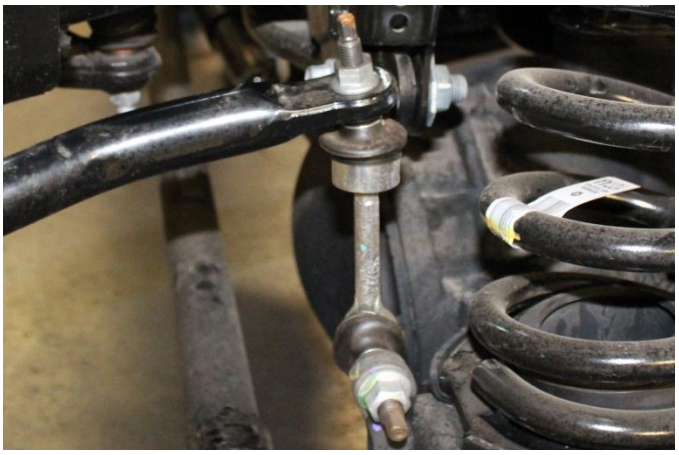
66854-2 3” Rear Block Kit
2) 3” Tall x 3” Wide x 5” Long Blocks
4) 9/16-18 x 4” x 15” U Bolts
8) 9/16-18 Nylock Nuts
8) 9/16” Washers
1) Brake Line Bracket
1) 5/16” x 1” Bolts
1) 5/16” Nylock Nuts
2) 5/16” Washers

1) Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. NEVER WORK UNDER AN UNSUPPORTED VEHICLE! Remove the front tires.

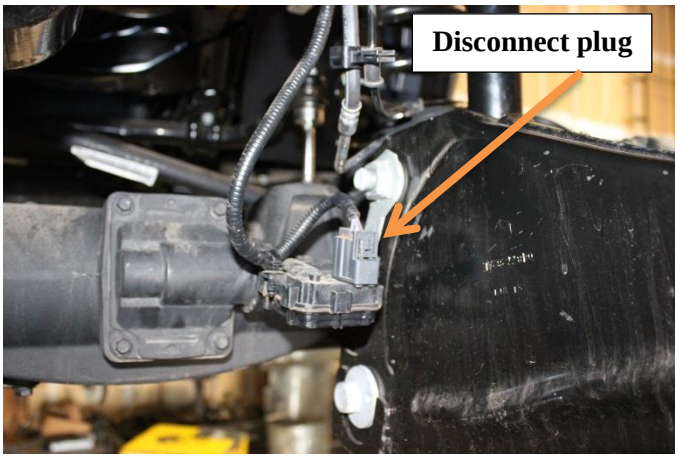
2) Support the front axle with 2 floor jacks.

3) Remove the bolts attaching the brake line tabs to the front axle.

4) Remove the front sway bar end links from the axle mount. Remove the bolts securing the sway bar mounts to the frame and set the sway bar aside, save all sway bar hardware. NOTE the orientation of the sway bar for installation.



5) Disconnect the front 4wd actuator from the axle housing.



6) Remove bolt holding the drive shaft to the front differential.

7) Disconnect the ABS wiring.

8) Using a crescent wrench loosen the jam nuts on the drag link.

9) Remove the hardware attaching the drag link to the pitman arm. Save the hardware.

10) Using a hammer, strike the pitman arm to dislodge the tie rod from the pitman arm.

11) Unscrew the tie rod end out of the coupler.

12) Using a die grinder or abrasive saw remove the flat portion of the tie rod.

13) Remove the nut securing the track bar to the frame and separate. Save the track bar hardware.

14) Remove the front upper nut and the lower bolts securing the shock to the axle. Save the lower Hardware. Remove shocks.

15) Leaving the front axle supported on the 2 jacks raise the truck enough to remove the coil springs. Save the upper rubber insulator, coil springs & shocks for Reassembly. USE EXTREME CARE WHEN WORKING WITH COILS THAT ARE UNDER LOAD!

16) Install front shock extenders.

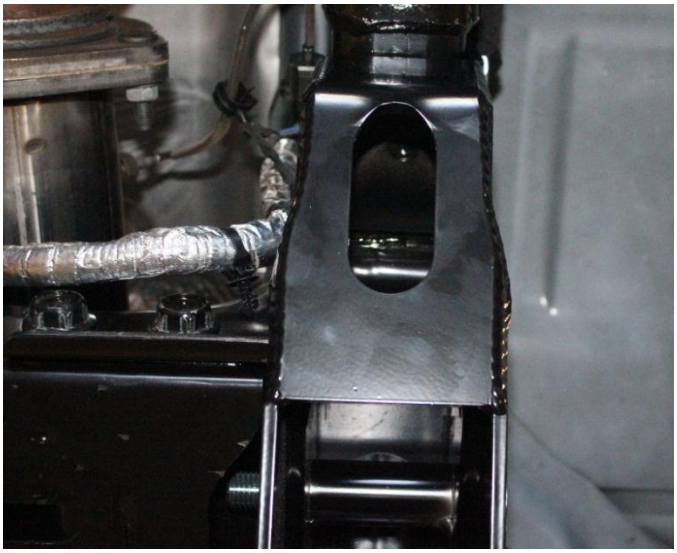
17) Install the shocks back into the truck to allow the front axle to hang from.

18) Loosen the bolts securing the link arms to the frame.

19) Remove the bolts attaching the link arms to frame.

20) Install the FTS radius arm drop bracket using the factory hardware.

21) Mark the hole on the bottom side of the frame.



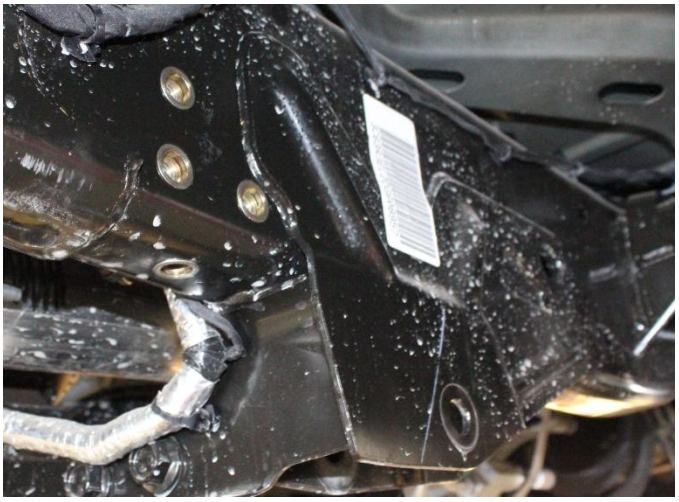
22) Mark the 3 holes on the side of the frame with a center punch.

23) Drill all 4 frame holes to 11/16”

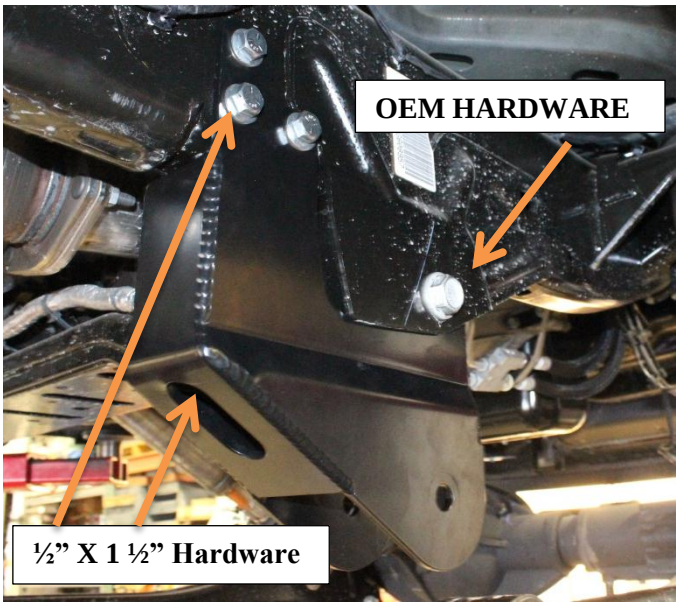
24) With holes enlarged install nut inserts using supplied spacer and tighten bolt till each nut insert crimps itself tight into the frame.

25) Use a3/8” impact to tighten the nut-serts into the frame as shown.

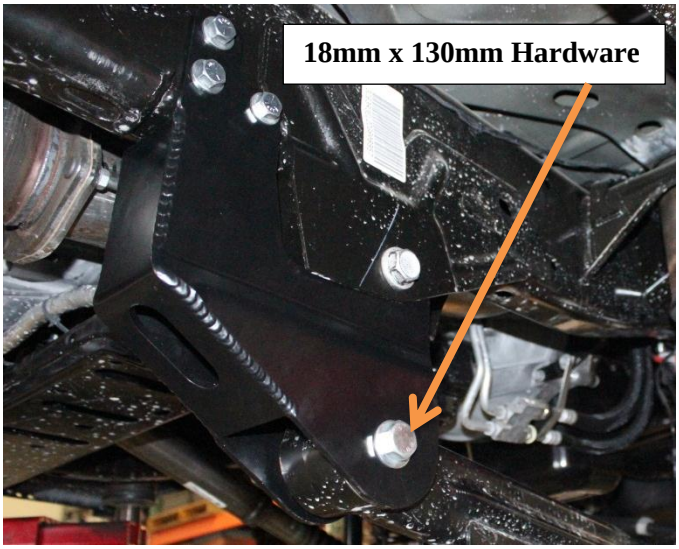
26) Shown below is the 4 nut-serts installed.



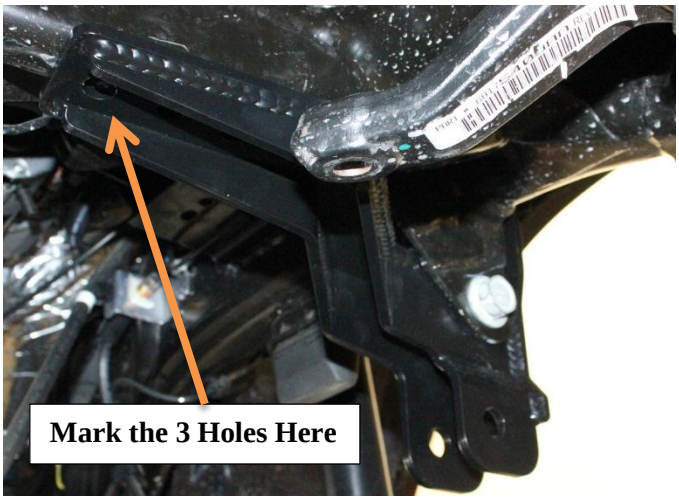
27) Once all nut inserts are installed, re-install the bracket using ½" x 1 ½" hardware.



28) Install the arm into the FTS drop bracket using the factory hardware

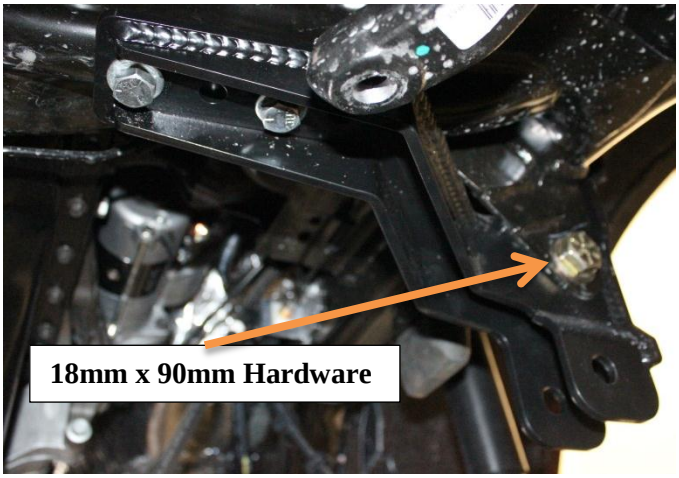


29) Install the track bar bracket as shown, Use the factory hardware threw the factory hole in the frame. Snug the bolt enough to hold the bracket in place. Mark the 3 holes on the bottom side of the frame using the track bar bracket as a guide.

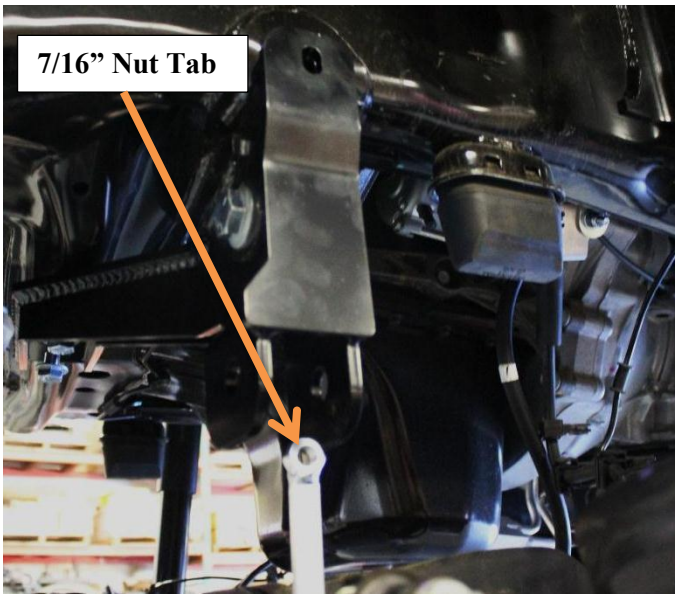


30) Remove bracket and drill hole to 11/16'". Install the nut-serts as shown.

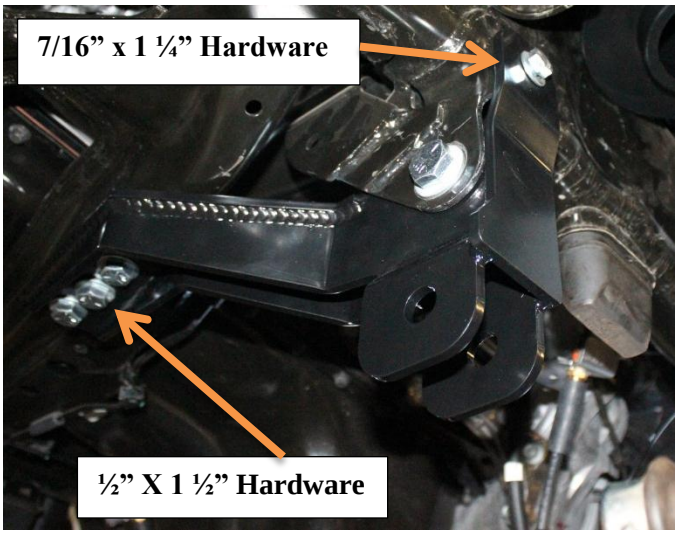
31) Reinstall bracket using the 18mm x 90mm hardware.



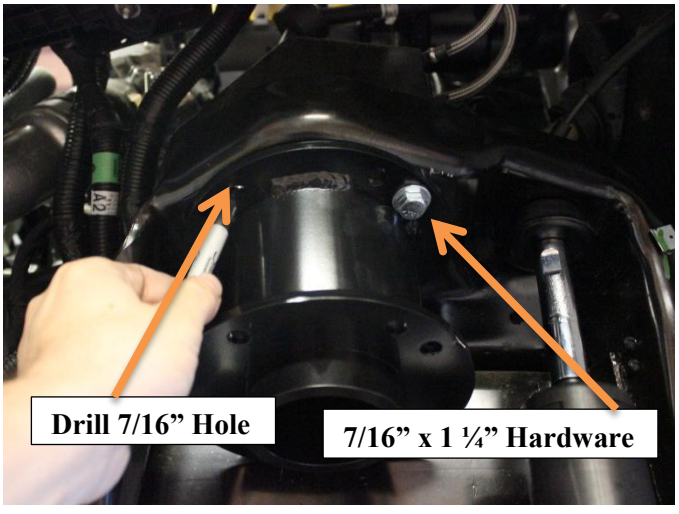
32) Install the nut tab and 7/16” x 1 ¼” hardware as shown.



33) Install the three ½” x 1 ½” hardware as shown.

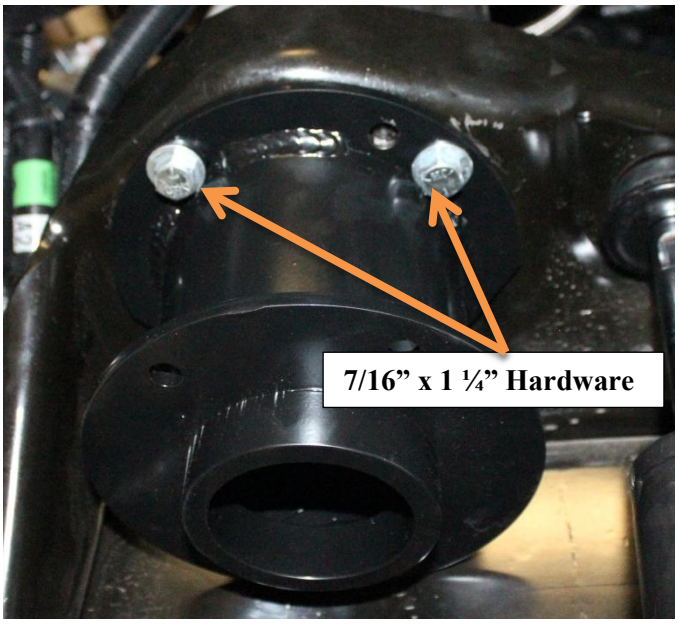


34) Install the coil spacers using 7/16”x 1 ¼” hardware. Mark the other hole.



35) Remove the coil spacer and drill and drill a 7/16” threw hole.

36) Coil spacer installed shown below.



37) Install the factory coil insulator as shown.

38) Remove the upper shock hardware and lower the axle down enough to install the coil springs. Re-attach the upper Shock Hardware.

39) Drill out the taper factory pitman arm using a 7/8” drill bit or reamer.

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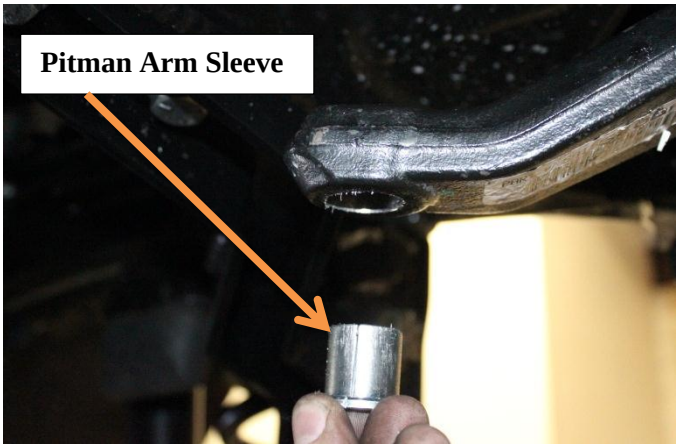
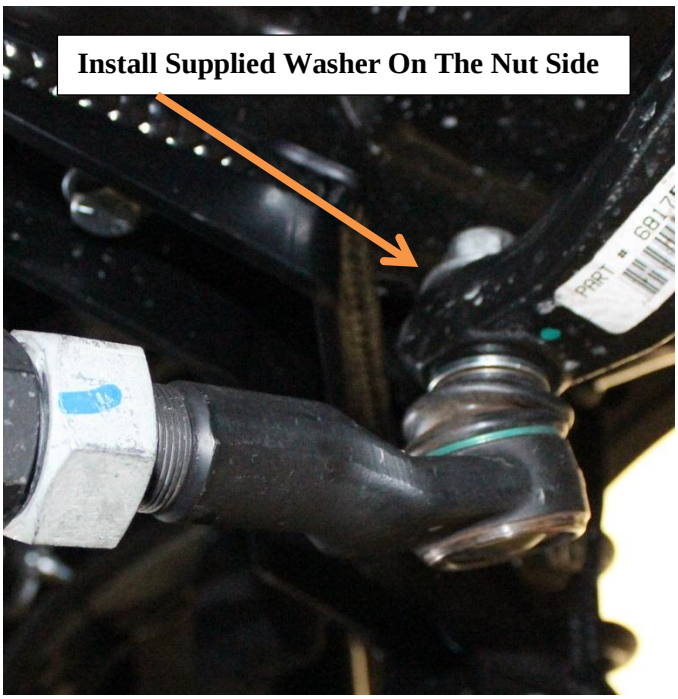
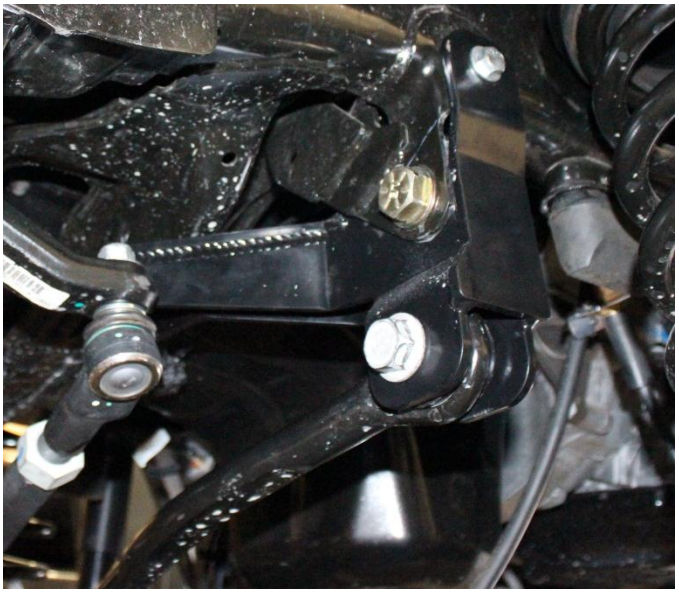
40) Note that the sleeve will be installed from the bottom of the pitman arm. Now reconnect the factory tie rod to the pitman arm making sure it now goes from the bottom facing up as shown in the picture. Install supplied hardened flat washer and factory nut .Torque the original nut to 45 ft-lbs.



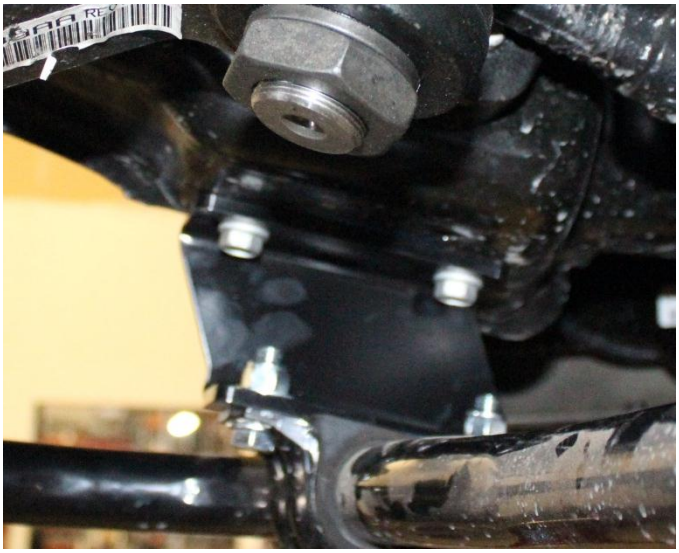
41) install the tie rod into the pitman arm from the bottom side.



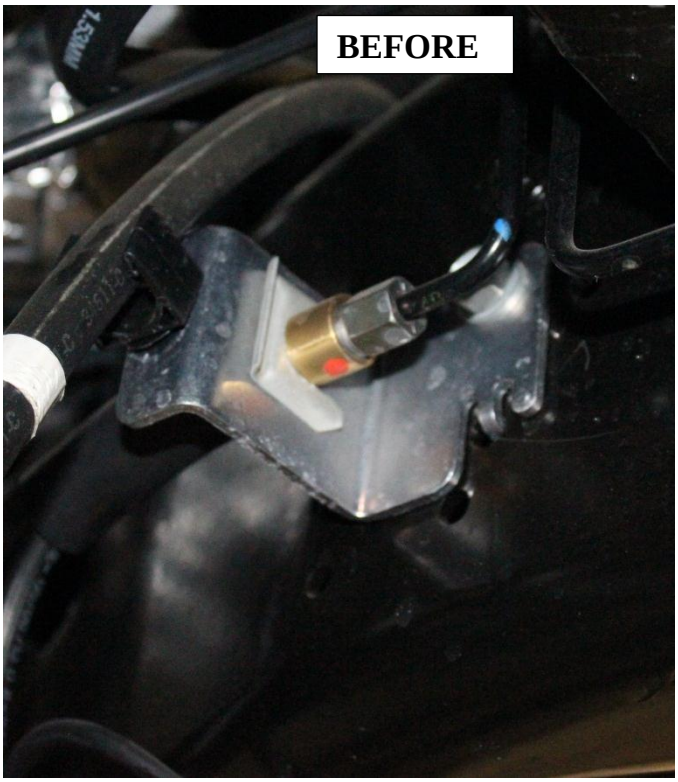
42) Re-attach the track bar to the track bar drop using the factory hardware.

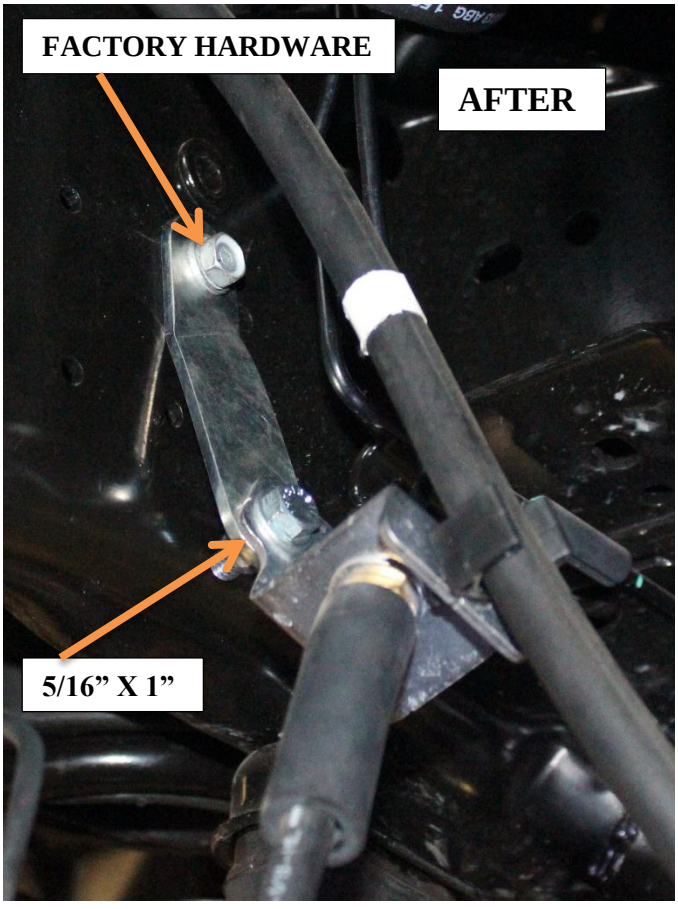


43) Install the sway bar brackets as shown using the factory hardware attaching the bracket to the frame, Use the 7/16” x 1 ¼’ hardware to attach the sway bar to the drop brackets. Reconnect the sway bar end link to the axle using the factory hardware.

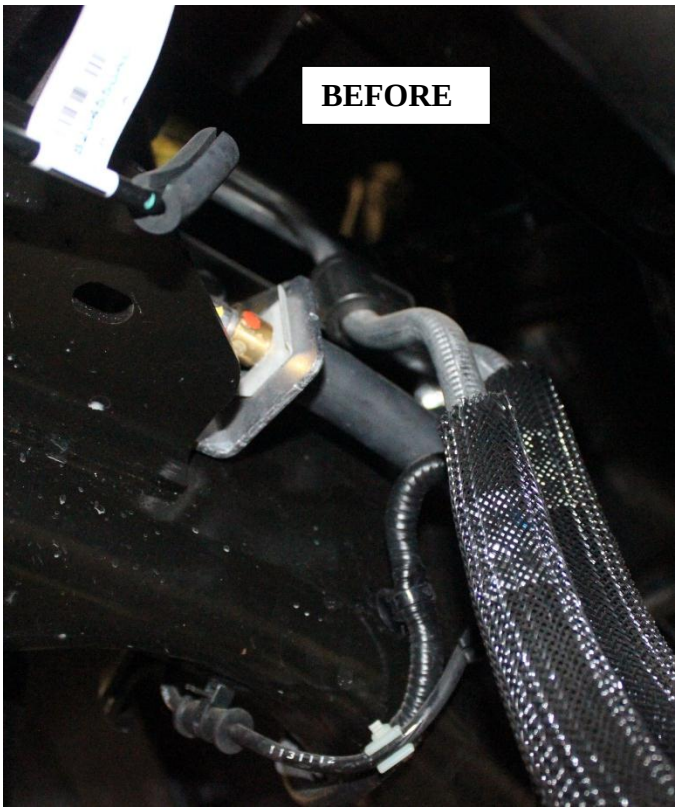


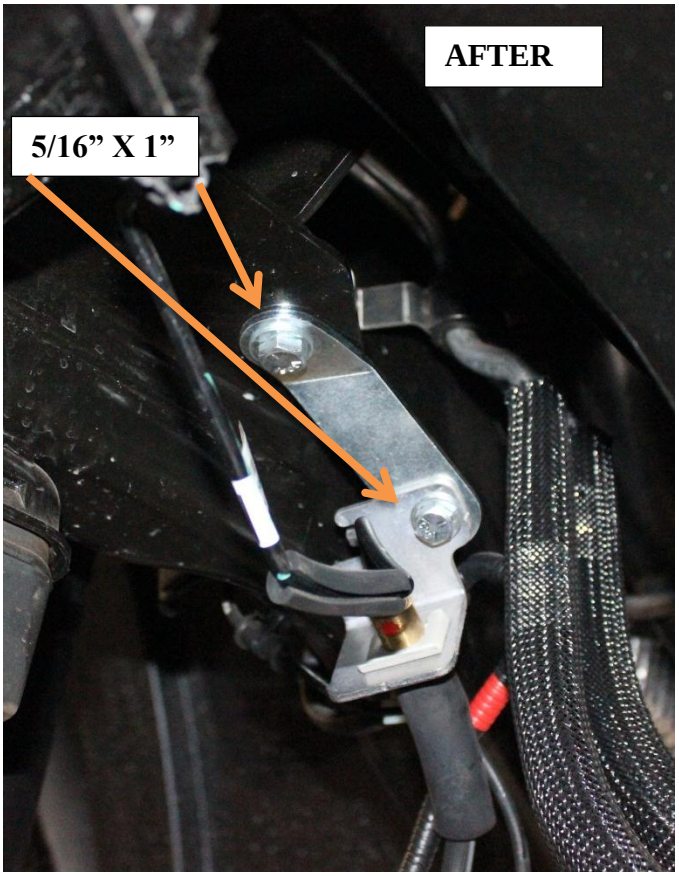
44) Install the supplied DRIVER upper brake line drop bracket using the factory hardware to attach the bracket to the frame and the supplied 5/16” x 1” hardware to attach the bracket to the brake line hardline bracket.



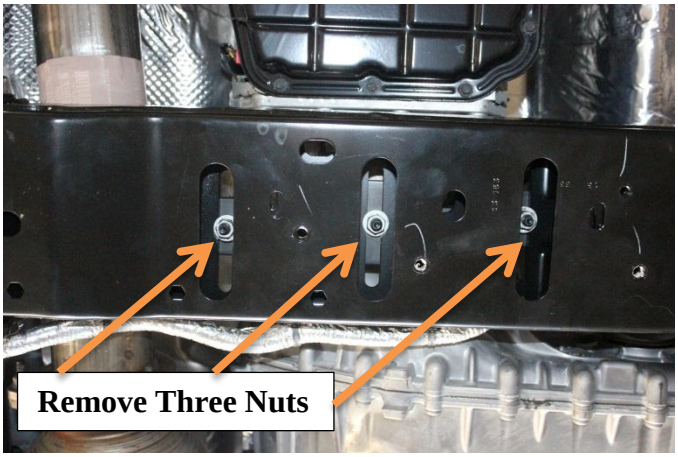


45) Install the supplied PASSENGER upper brake line drop bracket using 5/16” x 1”hardware to attach the bracket to the frame and the supplied 5/16” x 1” hardware to attach the bracket to the brake line hardline bracket.

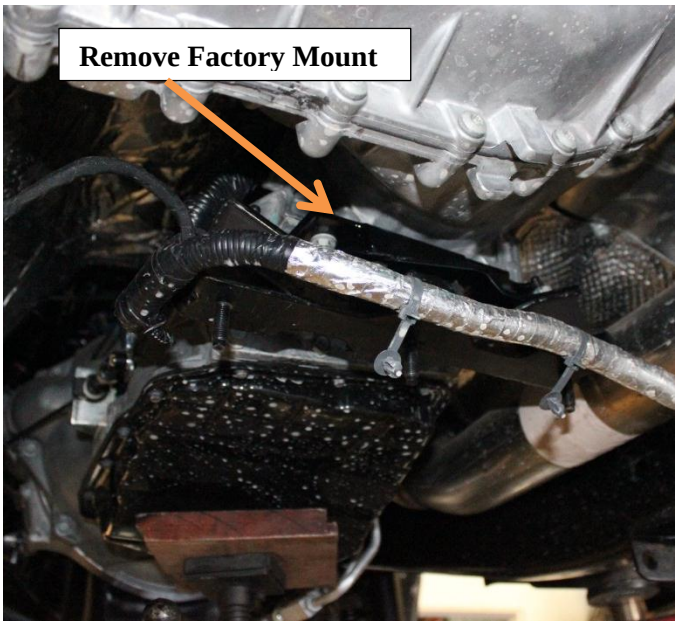




46) Support the transmission using a transmission jack or tri pod stand. Remove the transmission cross member.



47) Remove the stock transmission mount.



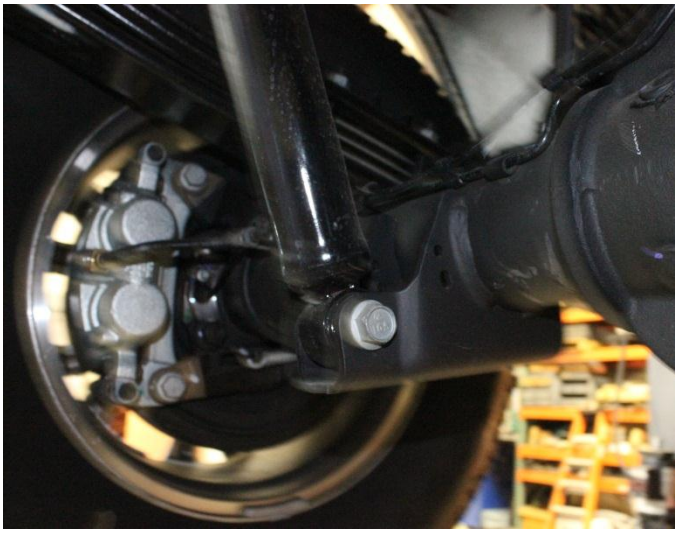
48) Reinstall the transmission mount into the truck using the factory hardware.

49) Reinstall the transmission cross member into the truck using the factory hardware.

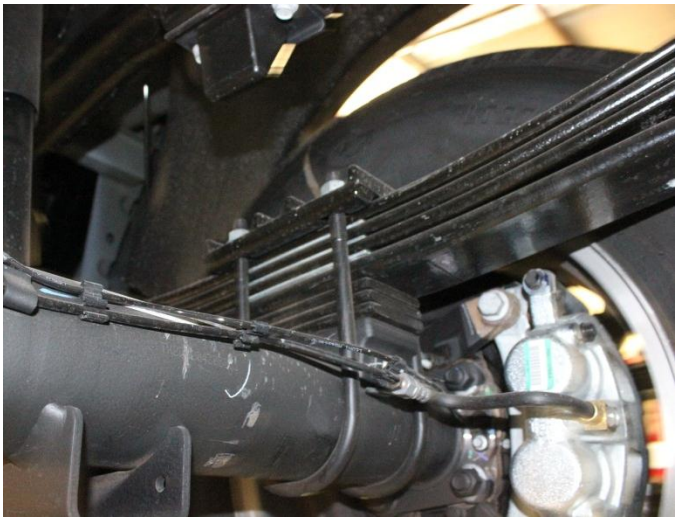
REAR INSTRUCTIONS

1) Jack up the rear end of the vehicle and support the frame.

2) Remove upper and lower shock hardware.



3) Supporting the rear differential remove and discard the rear U-bolts. Lower the axle down slowly.



4) Install the new FTS supplied block, jack the axle back up to where the blocks are touching the leaf springs .

IF YOU ARE INSTALLING TRACTION BARS FOLLOW STEPS 5 THRU 18 IF NOT SKIP THIS PART

4) Install the new upper plate on top of the spring over leaf spring center pins

5) Using the supplied ¾ x 3.25x 18" u bolts Install them front the top side down.

6) Install the new FTS lower traction bar axle saddle using the ¾ washers and high nuts supplied and torque to 150ft lbs

7) Now you are ready to set the truck on the ground, you will need to bounce the rear of the truck to settle the leaf spring before installing the traction bars

8) Install the supplied bushing into the traction bars

9) Install the supplied sleeve in both ends of the traction bar. NOTE use grease on the surfaces of the bushings and sleeves before installing.

10) Mount the frame bracket to the other end of the traction bar and push it up as a guide of where to drill the holes

11) Mark all 4 of the holes in the frame with a scribe.

12) Using a ¼ drill bit as a pilot hole. Then drill the holes to 11/16 only through the front side and the bottom side of the frame

13) Using the supplied nut serts press them into all 4 holes.

14) Using a ½ x 3 bolt and a sleeve with a ½ hole in it you will grab the sleeve with vise grips or channel locks , insert the ½ bolt threw the sleeve and tighten the bolt with a impact gun till it collapse the nut sert . Be sure you are holding the vise grips tightly

15) Install the traction bar frame bracket with the ½ x 1 ½ bolts and washers and tighten to 65 ft.- lbs.

16) Install the FTS traction bars with the 9/16 x 4 ½ bolts supplied and tight to 95 ft.- lbs.

17) Install shocks

NON TRACTION BAR U BOLT INSTALLATION REAR INSTRUCTIONS

1) Jack up the rear end of the vehicle and support the frame rails with jack stands.

2) Supporting the rear differential remove and discard the rear shocks and U-bolts. Lower the axle down slowly.

3) Install the new FTS supplied block, jack the axle back up to where the blocks are touching the leaf springs .

4) Use the 9/16" X 4 X 16", slide the over the axle from the bottom up and thru the factory upper plates torque to 100 ft.- lbs.

5) Install shocks

Thank You for choosing Full Throttle Suspension

Tech support 559-271-8685 or send email to fts.dwgs@gmail.com