TRAIL FORTRESS

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Rough Country 71300 Installation Instructions

3.5-Inch Lift Kit for 2022–2025 Toyota Tundra 4WD, Part 71300

Part number: 71300

trailfortress.com/rough-country-3-5-inch-lift-kit-71300

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

TOYOTA 2022 Tundra 3.5” Lift Kit with Rear Air Bag

Thank you for choosing Rough Country for all your suspension needs.
Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle.

Please read instructions before beginning installation. Check the kit hardware against the parts list. Be sure you have all needed parts and know where they go. Also please review the tool list and make sure you have the necessary tools to install the kit.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is, the easier it will roll. We strongly recommend, because of rollover possibility, that seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur. Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

Rough Country makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered. We will be happy to answer any questions concerning the design, function, and correct use of our products.

This suspension system was developed to accommodate a **Maximum tire size of 35 x 12.50 on an 20x9” 0mm Offset. Larger tires or different wheel offsets will need to be verified prior to use.**

⚠NOTICE **NOTICE TO DEALER AND VEHICLE OWNER**

Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics. It is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service life.

⚠NOTICE Note to installer : Before installation begins we recommend that a test drive be performed. While driving check for uncommon sounds and/or vibrations . What you feel and hear during the test drive will only magnify once lift kit is installed. Advise you to discuss possible issues identified from drive with customer before proceeding to install this kit.

⚠NOTICE **Before performing any step on this instruction sheet, it is recommended to place the vehicle in the lowest rear suspension setting.**

Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

Kit Contents

70300991

Front
- *2 - Front Spacers*
- *1 - Dr Upper Control Arm*
- *1 - Pass Upper Control Arm*
- *1 - Dr Diff Mount*
- *1 - Pass Diff Mount*
- *1 - Dr Sway Bar Drop*
- *1 - Pass Sway Bar Drop*
- *1 - 70300BAG7 (Front Kit Bag)*
  - 2 - 1/2” Flat Washers (Ball Joint)
  - 8 - 10mm x 70mm Bolts
  - 8 - 10mm Nylock Nuts
  - 8 - 10mm Flat Washers
  - 2 - 1/4” Lock Nuts
  - 4 - 7/16” x 1.25” Bolts
  - 4 - 7/16” Flat Washers
  - 4 - 7/16” Lock Nuts
  - 2 - 5/16” x 3/4” Bolts
  - 2 - 5/16” Flat Washers
  - 2 - 5/16” Flange Lock Nuts
  - 3 - Brake Line Brackets
- *1 - 70300BAG2 (Diff Drop Bag)*
  - 4 - Bushings
  - 2 - 9/16” x 3/4” x 2.6” Sleeve
  - 2 - 9/16” Flat Washers
  - 3 - 16mm Nylock Nuts
  - 3 - 16mm Flat Washers
  - 2 - 14mm x 65mm Bolts
- 1 - QR Code Instruction Sheet

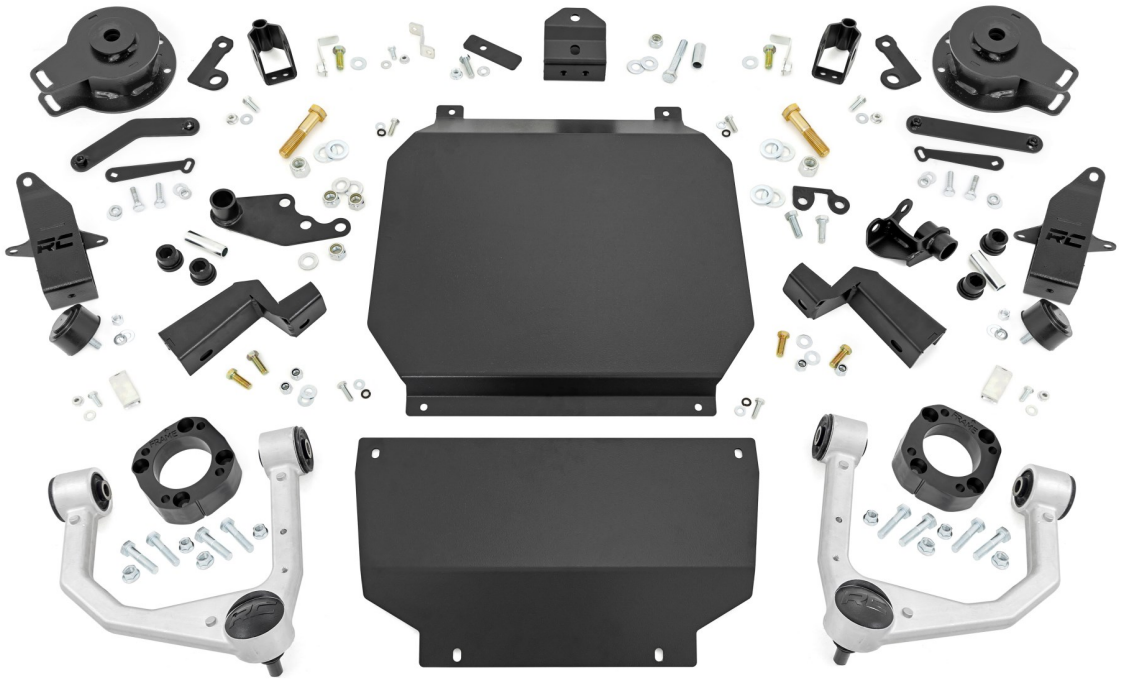
Rear
- 2 - Rear Airbag Spacers
- 1 - 71300BAG1 (Air Bag Kit Bag)
  - 1 - Dr Rear Flag Nut
  - 1 - Pass Rear Flag Nut
  - 2 - Air Bag Sensor Brackets
  - 4 - 3/8” x 1 1/4” Bolts
  - 4 - 3/8” Flat Washers
  - 4 - 3/8” Lock Washers
- *1 - 70300BAG3 (Rear Kit Bag)*
  - 2 - Flag Nuts
  - 2 - 1/2” x 1.25” Bolts
  - 2 - 1/2” Flat Washers
  - 2 - 3/4” x 3.5” Bolts
  - 2 - 3/4” Lock Nuts
  - 4 - 3/4” Flat Washers
  - 2 - 3/8” x 1” Bolts
  - 2 - 3/8” Flat Washers
  - 2 - 3/8” Flange Lock Nuts
  - 1 - 5/16” x 3/4” Bolt
  - 1 - 5/16” Flat Washer
  - 1 - 5/16” Flange Lock Nut
  - 1 - 10mm x 35mm Bolt
  - 1 - 10mm Flat Washer
  - 1 - 10mm Serrated Flange Nut
  - 1 - 9/16” x 13/16” x 1.6” Sleeve
  - 1 - 14mm x 80mm Bolt
  - 1 - 14mm Lock Nut
  - 2 - 9/16” Flat Washers
- *1 - Track Bar Bracket*
- *1 - Track Bar Bracket Shim*
- *2 - Shock Brackets*
- *1 - Dr Shock Bracket Brace*
- *1 - Pass Shock Bracket Brace*

70300BOX2

- *1 - 70300BAG4 (Skid Plate Bolts)*
  - 4 - 8mm x 25mm Bolts
  - 4 - 8mm Flat Washers
  - 4 - 8mm Lock Washers
- *1 - Front Skid Plate*
- *1 - Lower Skid Plate*

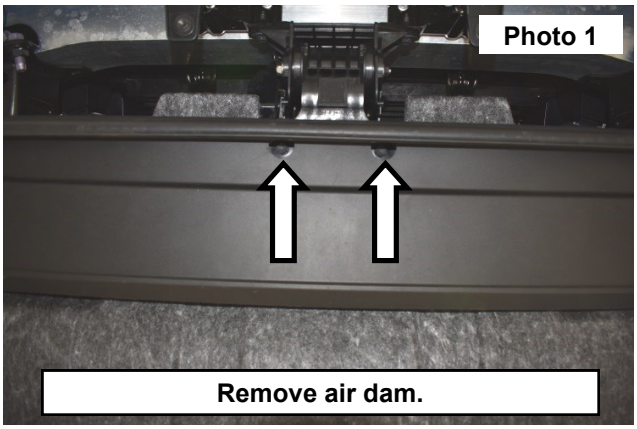
Tools Needed:

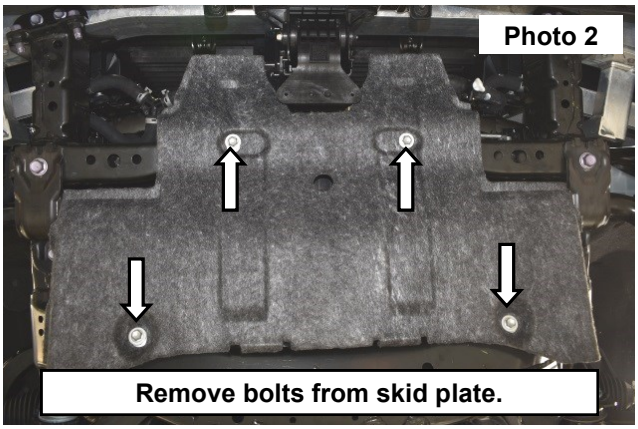
10mm Socket/Wrench
12mm Socket/Wrench
13mm Socket/Wrench
14mm Socket/Wrench
15mm Socket/Wrench
17mm Socket/Wrench
19mm Socket/Wrench
22mm Socket/Wrench
24mm Socket/Wrench
43mm Socket/Wrench
1/2” Socket/Wrench
9/16” Socket/Wrench
5/8” Socket/Wrench
3/4” Socket/Wrench
1-1/8” Socket/Wrench
Trim Remover Tool



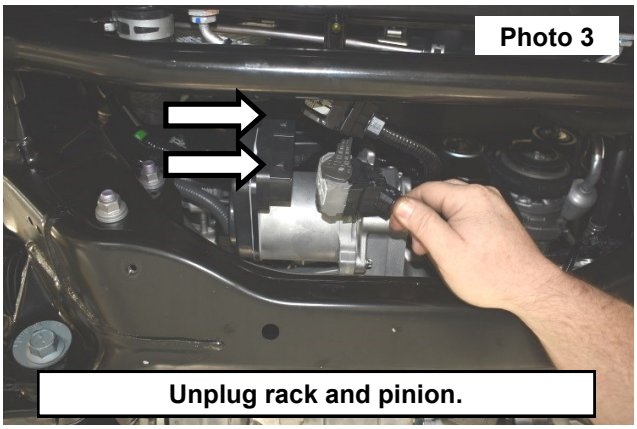
FRONT INSTALLATION INSTRUCTIONS

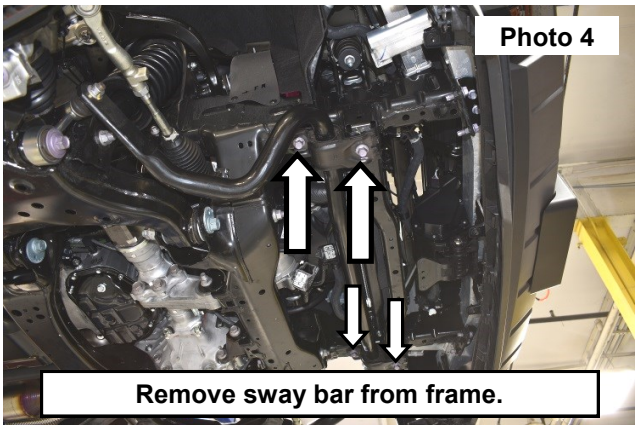
1. Lower the vehicle to the lowest ride height setting and disconnect the battery.
2. Jack up the front of the vehicle and place on jack stands. Remove the front wheels.
3. Remove 2 bolts from the center of the air dam using a 10mm socket/wrench to release the air dam. **See Photo 1**.
4. Remove the 4 bolts from the skit plate using a 12mm socket/wrench. **See Photo 2**.



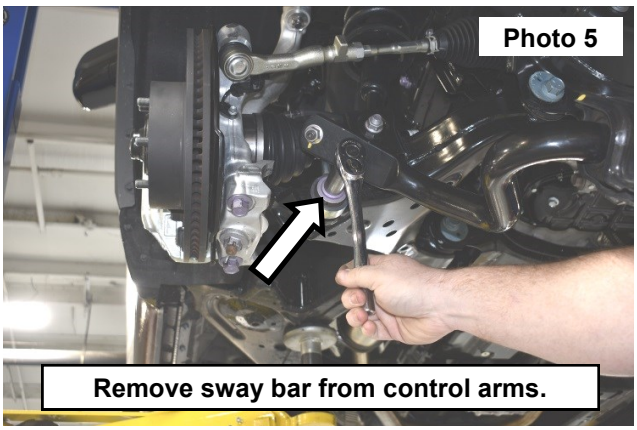


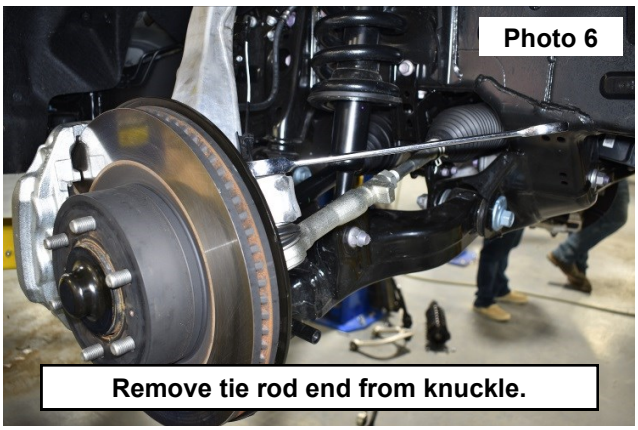
5. Unplug the rack and pinion. **See Photo 3**.
6. Remove the sway bar from the frame using a 17mm socket/wrench. **See Photo 4**.



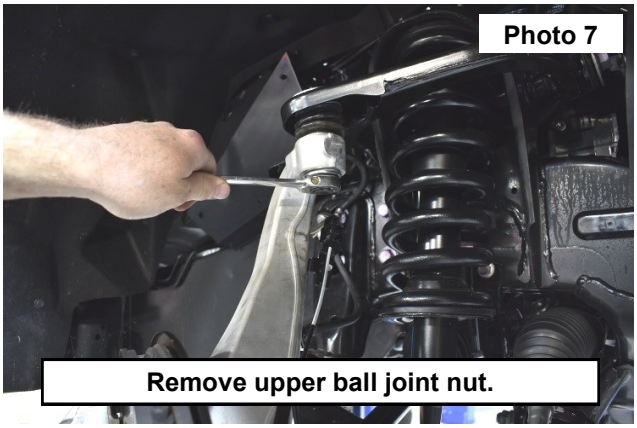


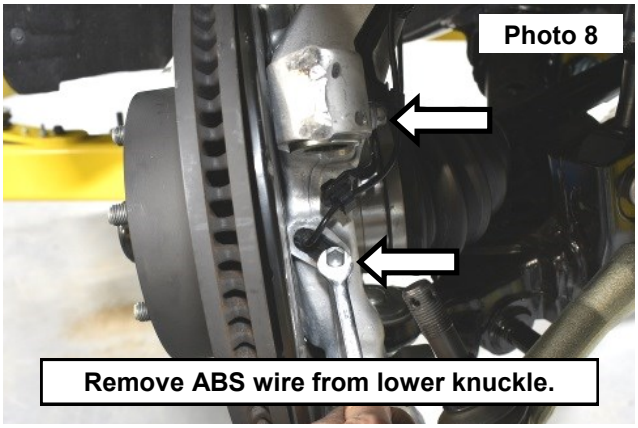
7. Remove the sway bar from the control arms using a 19mm socket/wrench. **See Photo 5**.
8. Remove the tie rod end from the knuckle using a 24mm socket/wrench. **See Photo 6**.



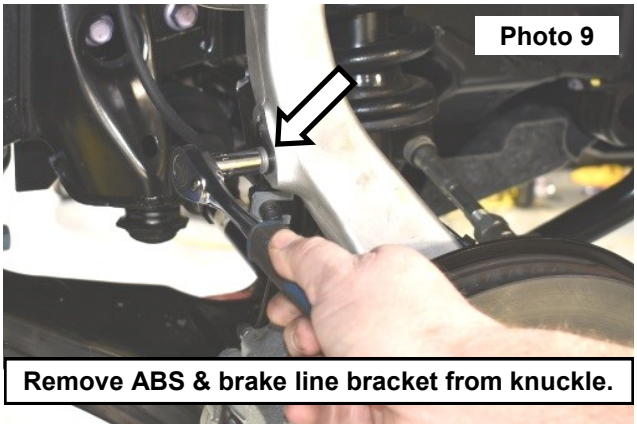


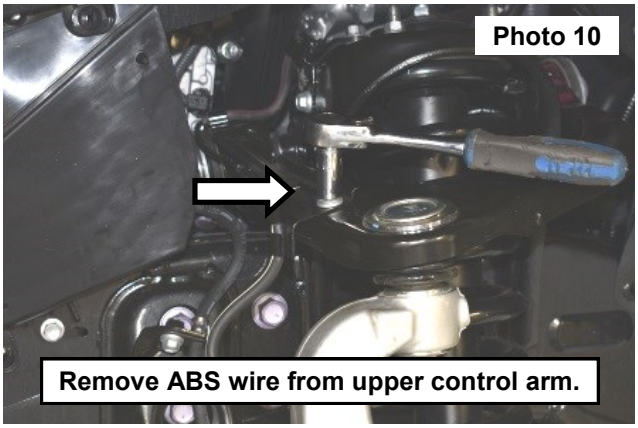
9. Remove the J-clip from the upper ball joint nut and remove the nut using a 19mm socket/wrench. **See Photo 7**.
10. Remove the ABS wire from the lower knuckle using a 10mm socket/wrench. **See Photo 8**.



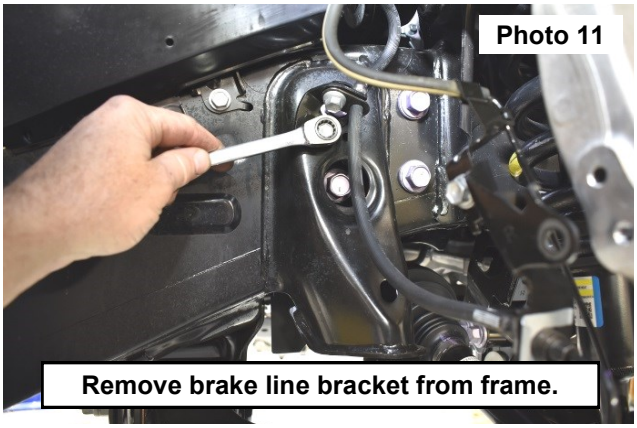


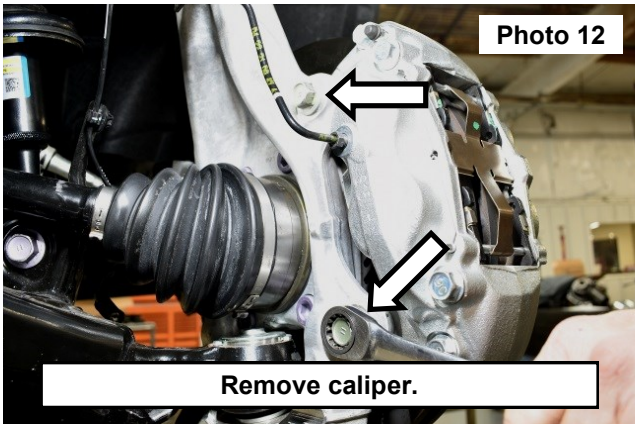
11. Remove the ABS wire and brake line bracket from the knuckle using a 10mm & 12mm socket/wrench. **See Photo 9**.
12. Remove the ABS wire from the upper control arm using a 10mm socket/wrench. **See Photo 10**.



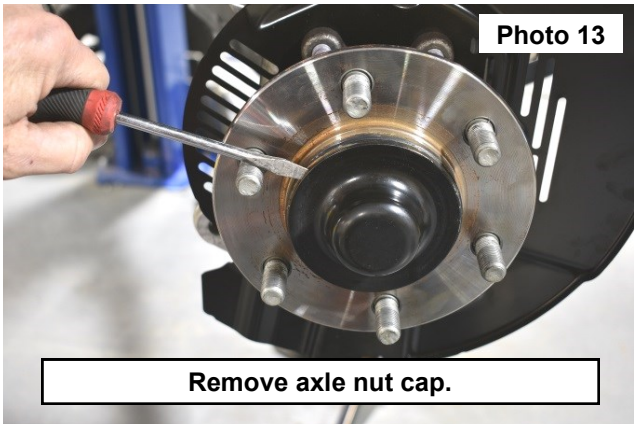


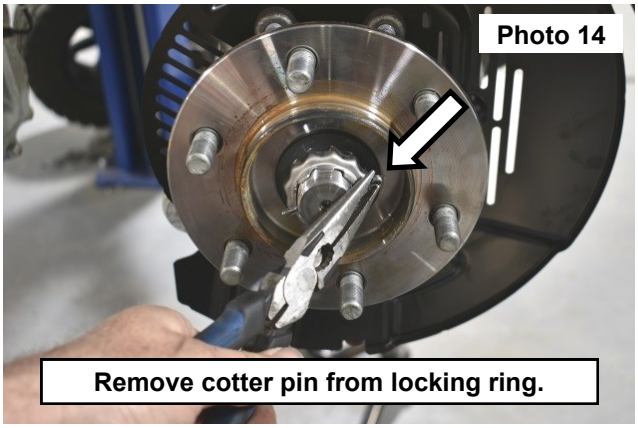
13. Remove the brake line bracket from the frame using a 12mm socket/wrench. **See Photo 11**.
14. Remove the brake caliper from the knuckle using a 19mm socket/wrench. **See Photo 12**.
    NOTE: After removing caliper, hang it using hooks or rest on a stand--do NOT hang it from the brake line.



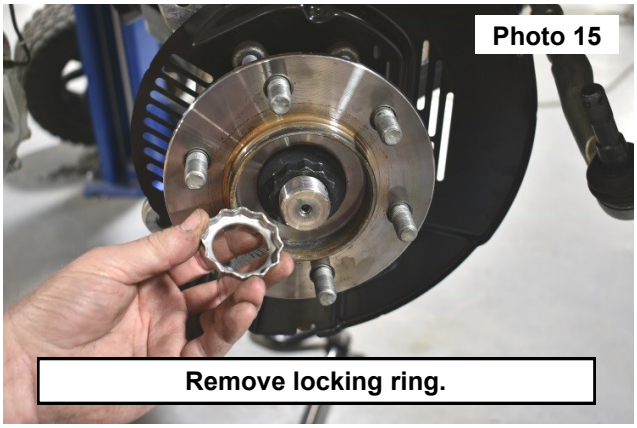


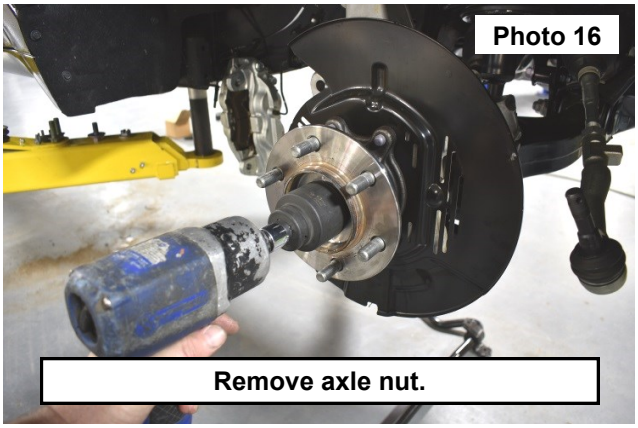
15. Remove the rotor, axle nut cup, and the cotter pin from the locking ring. **See Photo 13** and **Photo 14**.



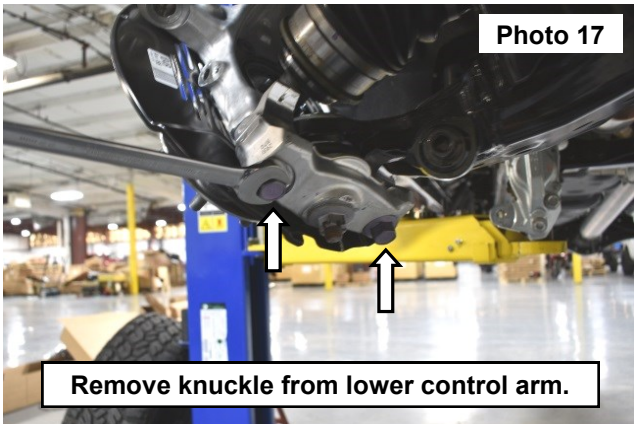


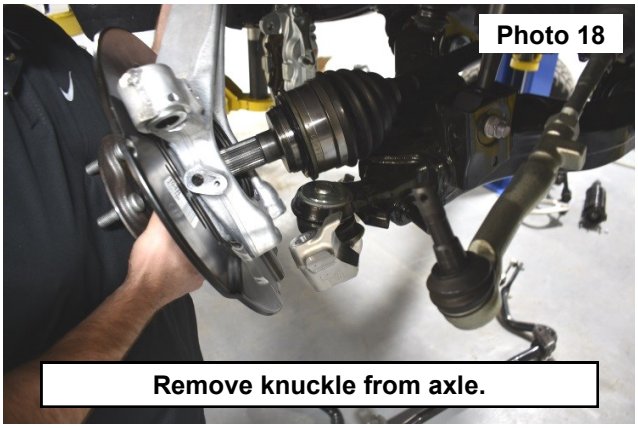
16. Remove the locking ring and remove the cotter pin using a 43mm socket. **See Photo 15** and **Photo 16**.



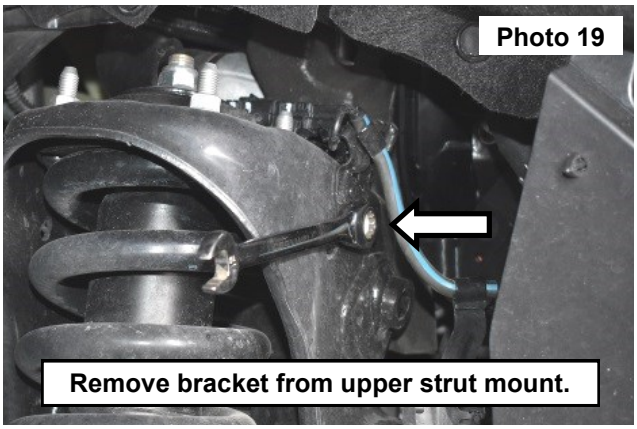


17. Remove the bolts for the knuckle from the lower control arm using a 22mm socket/wrench. **See Photo 17**.
18. Remove the knuckle from the axle. **See Photo 18**.





19. Remove the bracket from the upper strut mount using a 12mm socket/wrench. **See Photo 19**.
20. Remove the adaptive ride wiring cover using a small flat head screw driver to press down on the clips. **See Photo 20 -21**.

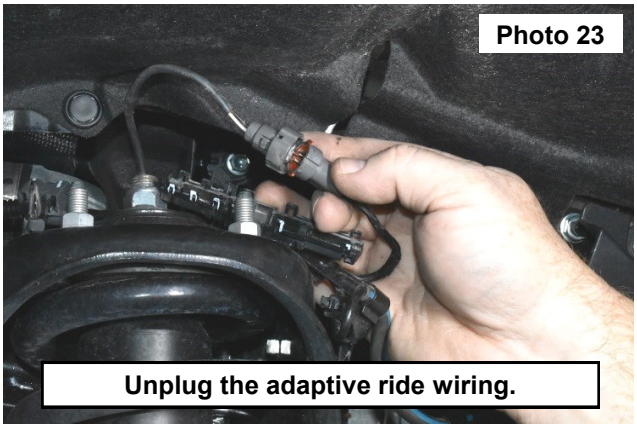


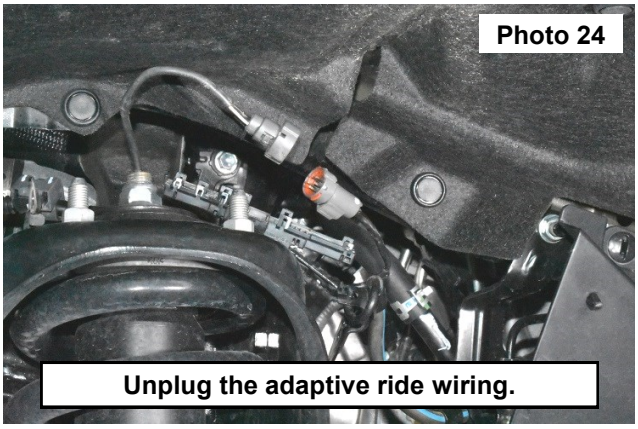


21. Unplug the adaptive ride wiring using a small flat head to release the plug. **See Photo 22-24**.

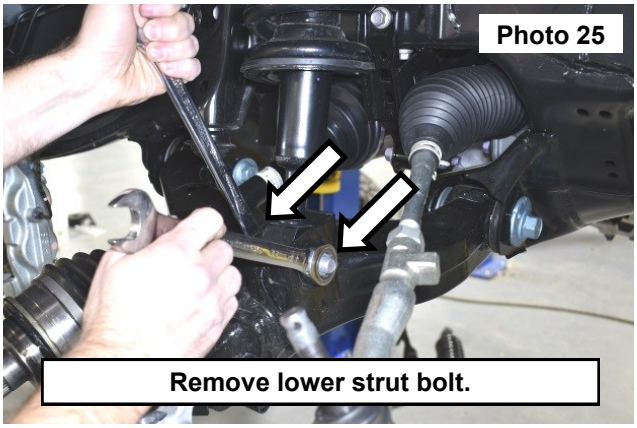


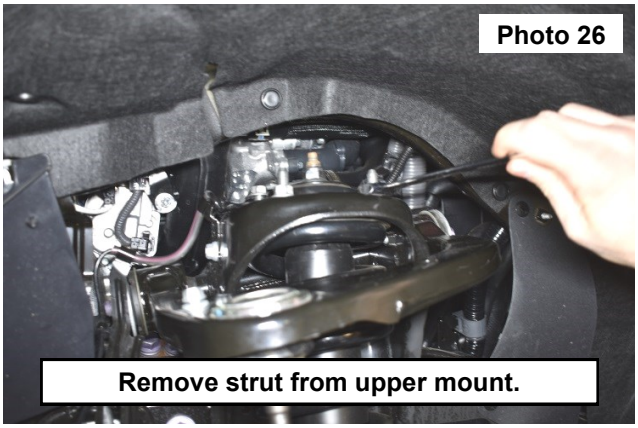




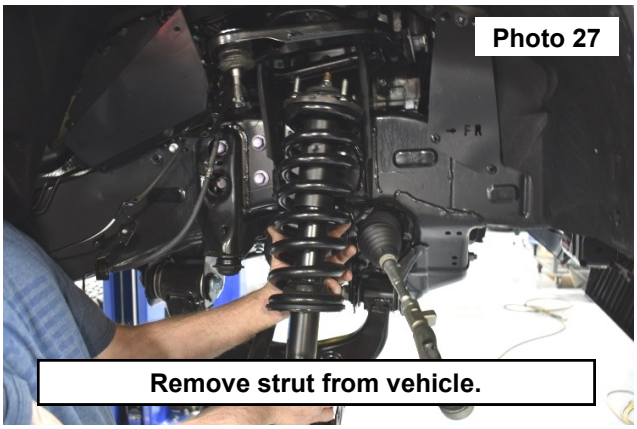


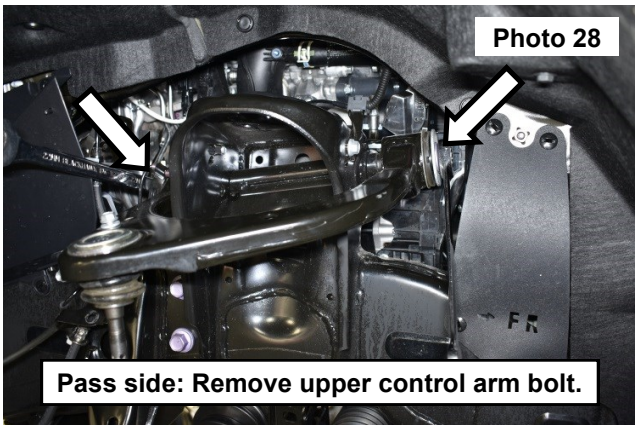
22. Remove lower strut bolt from the control arm using two 22mm wrenches. **See Photo 25**.
23. Remove the nuts from the upper strut mount using a 14mm wrench. **See Photo 26**.



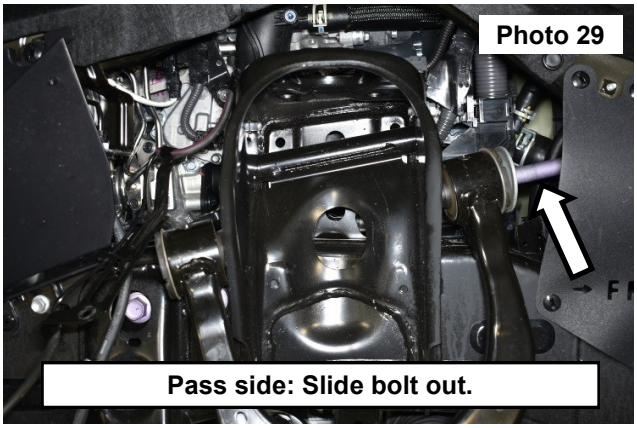


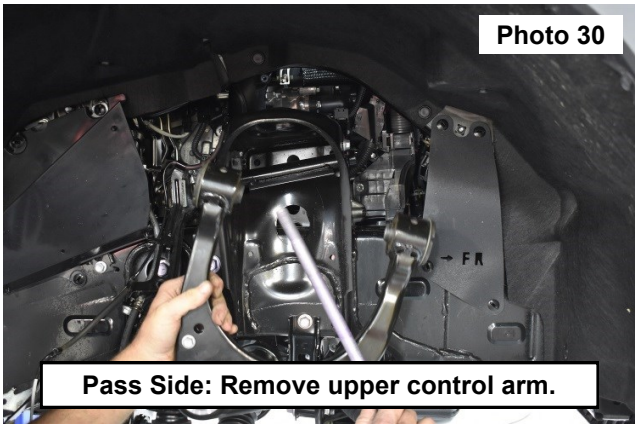
24. Loosen lower control arm cam bolts using two 24mm sockets/wrenches to allow the lower control arm to drop and remove the strut from the vehicle. **See Photo 27**.
25. **Passenger side**: Remove the upper control arm bolt using two 22mm wrenches. **See Photo 28**.



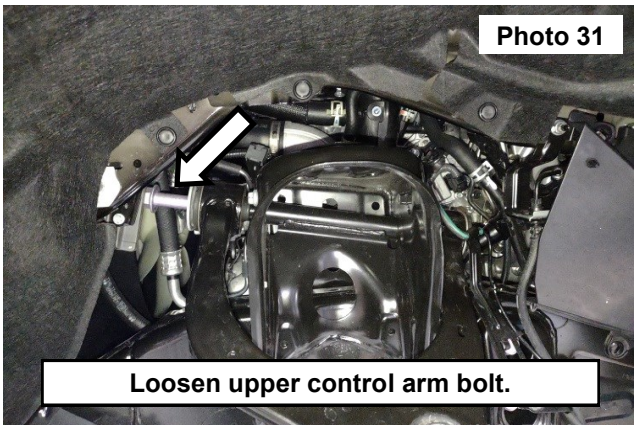


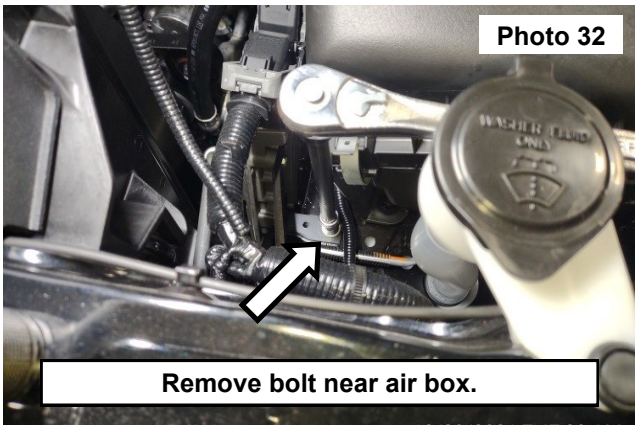
26. Slide the bolt out to remove the upper control arm. **See Photo 29**.
27. Remove the upper control arm. **See Photo 30**.



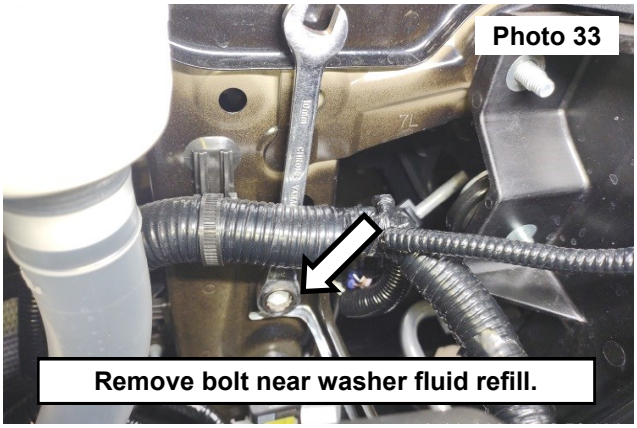


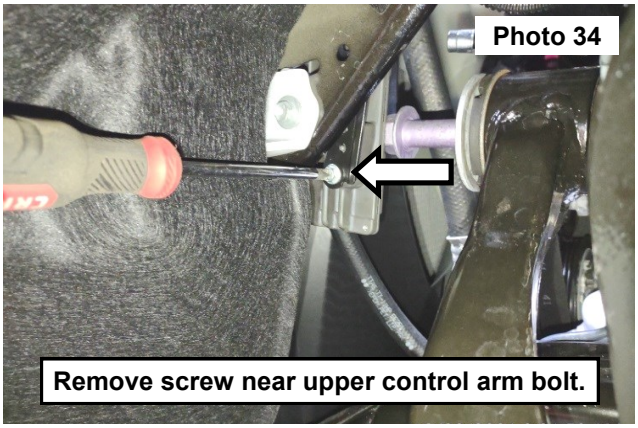
28. **Driver side**: Loosen upper control arm bolt using two 22mm wrenches. **See Photo 31**.
29. Open the hood and remove the bolt near the air box using a 10mm socket. **See Photo 32**.



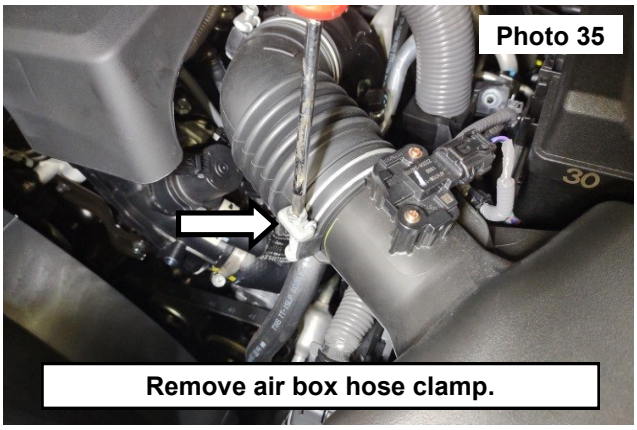


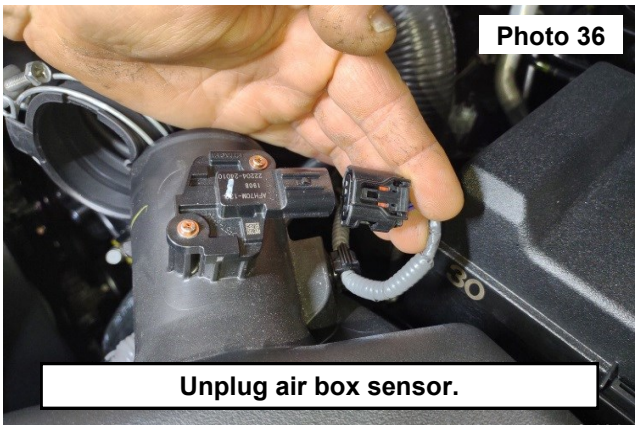
30. Remove the bolt near the washer fluid refill using a 10mm wrench. **See Photo 33**.
31. Remove the screw next to the upper control arm bolt using a screw driver. **See Photo 34**.



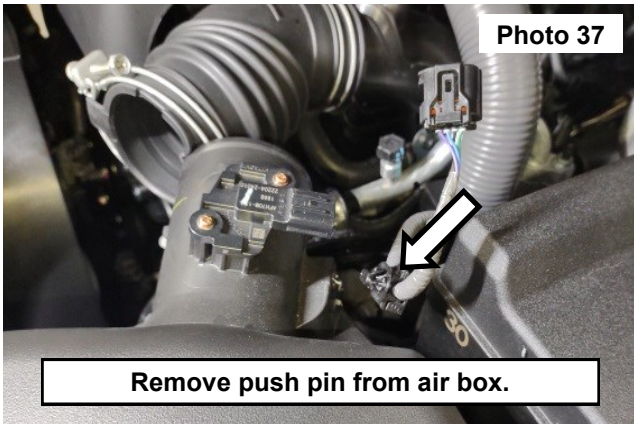


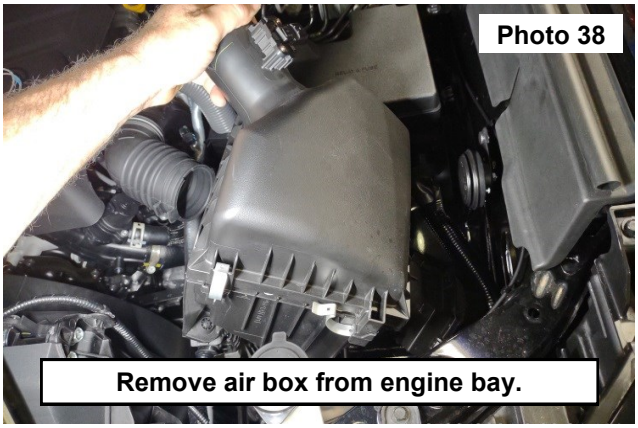
32. Unscrew the air box hose clamp using a screw driver. **See Photo 35**.
33. Unplug the air box sensor. **See Photo 36**.





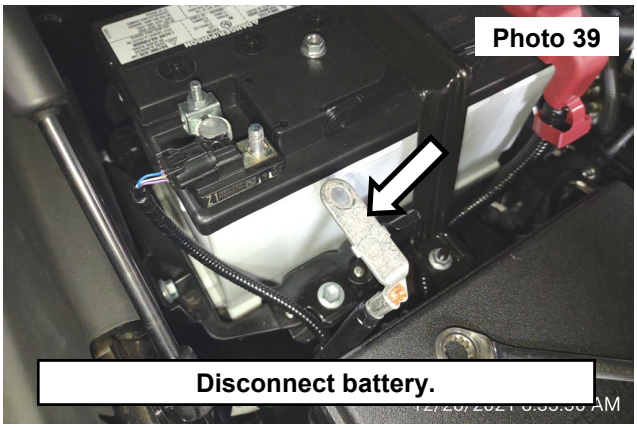
34. Remove the push pin from the air box. **See Photo 37**.
35. Remove the air box from the engine bay. **See Photo 38**.

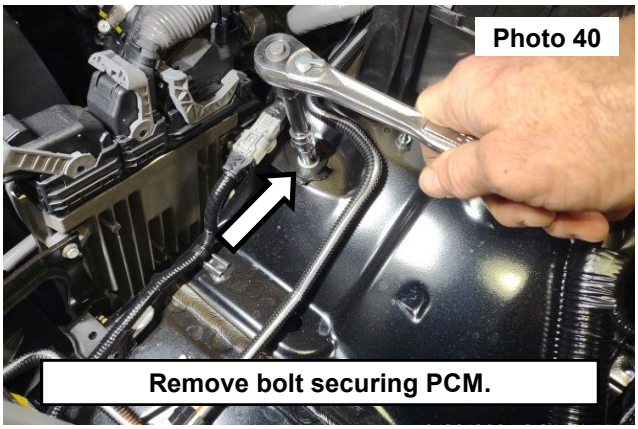




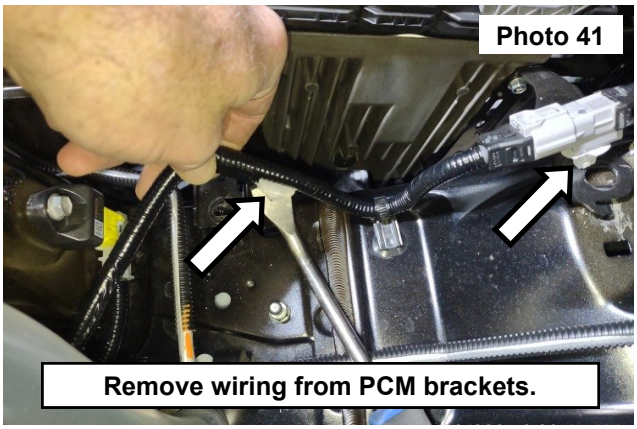
NOTICE

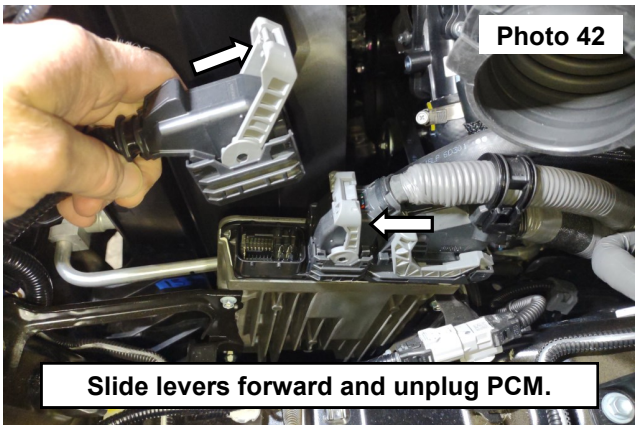
36. Disconnect the battery using a 12mm wrench. **See Photo 39**.
37. Remove the bolt securing the PCM using a 10mm socket/wrench. **See Photo 40**.



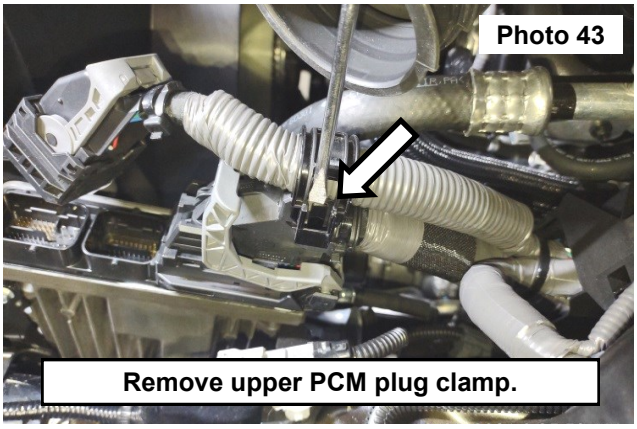


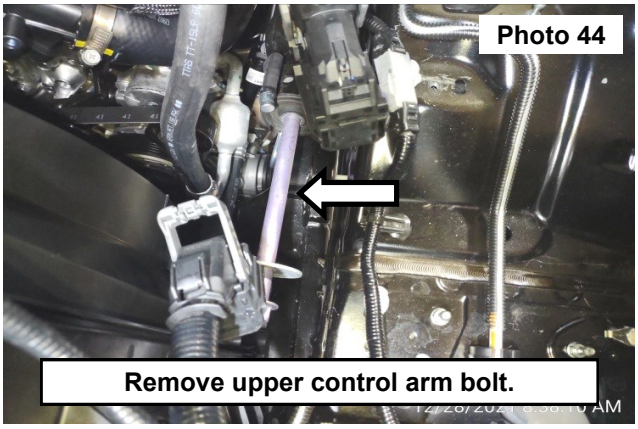
38. Use a trim remover tool to remove the wiring from the PCM brackets. **See Photo 41**.
39. Slide the levers forward to unlock and unplug the PCM. **See Photo 42**.



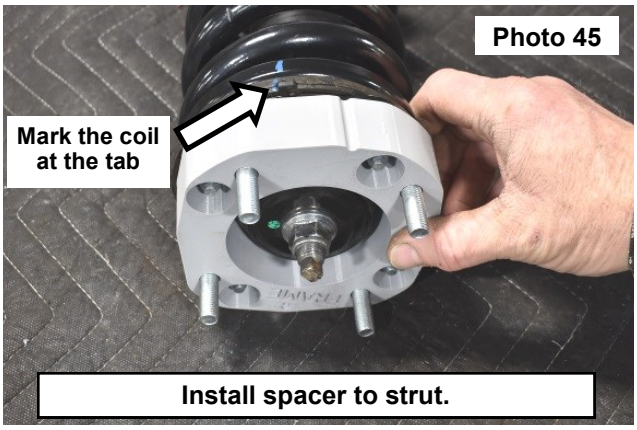


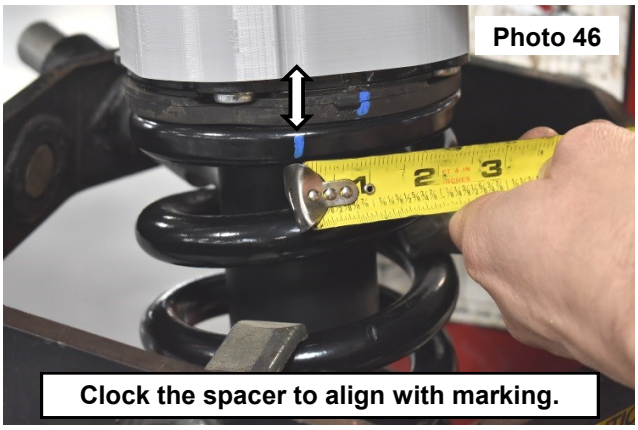
40. Remove the upper PCM plug clamp using a flat head and unplug the last PCM plug and remove the PCM from the engine bay. **See Photo 43**.
41. Remove the Dr side upper control arm bolt and remove the upper control arm. Finally! **See Photo 44**.
NOTE: After installing the upper control arm, reinstall PCM and air box in reverse order of tear down.



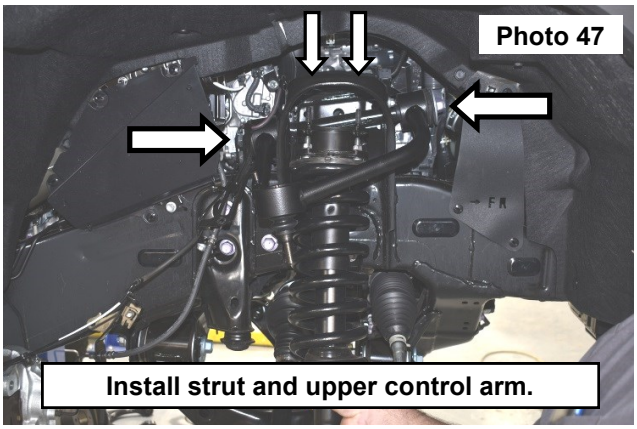


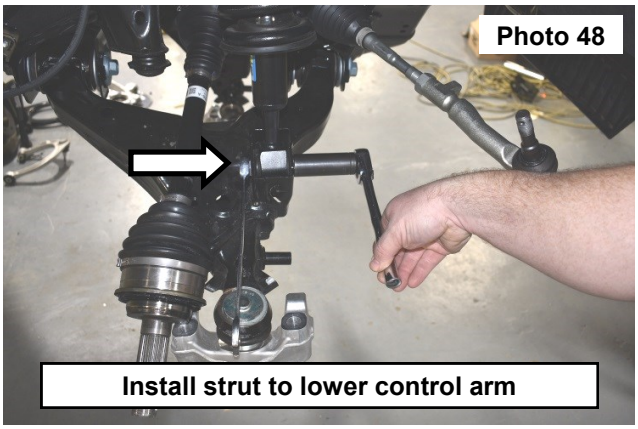
42. Install the supplied 10mm x 65mm bolts through the spacer and then install the spacer to the strut using the stock hardware. Use a paint pen to mark the coil and the top hat at the rubber tab. **See Photo 45**.
43. Place the strut in a strut compressor and clock the spacer about 1” until the notch in the spacer aligns with the mark on the coil. **See Photo 46**.



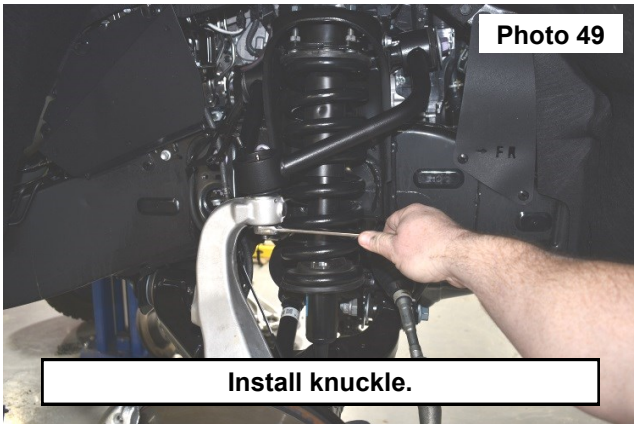


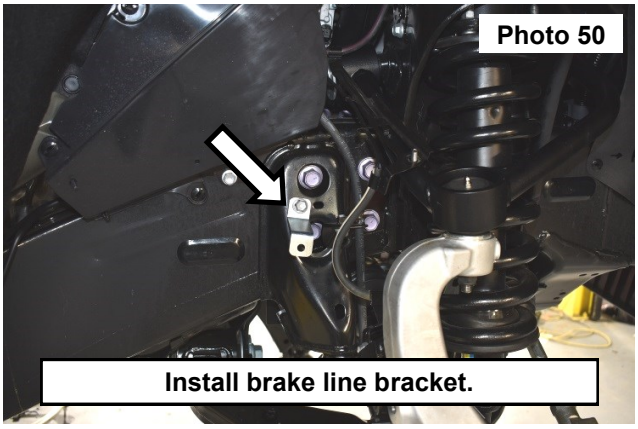
44. Install the strut into the vehicle with the supplied 10mm flange nuts using a 16mm wrench and install the new upper control arm using the stock hardware. **See Photo 47**.
45. Pull the lower control arm back up and install the strut to the lower control arm using stock hardware. **See Photo 48**.



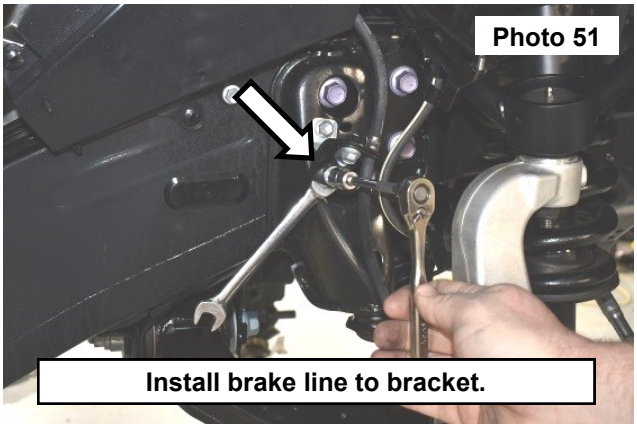


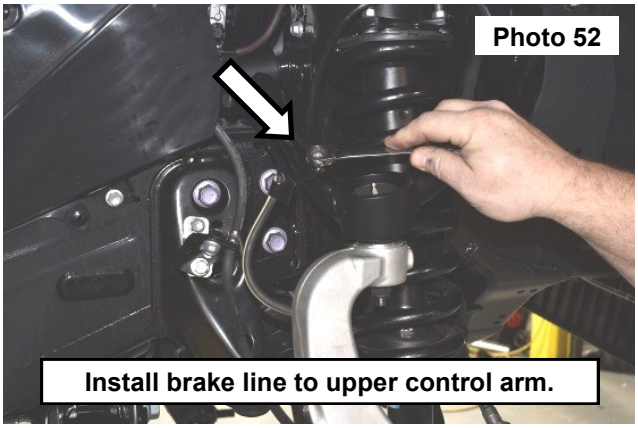
46. Reinstall the knuckle to the lower control arm using stock hardware and attach the knuckle to the upper control arm using the supplied 1/2” flat washer (70300BAG7) and lock nut (RCK6540P3BAG), tighten using an 18mm wrench. **See Photo 49**.
47. Install the brake line bracket using the stock hardware. **See Photo 50**.



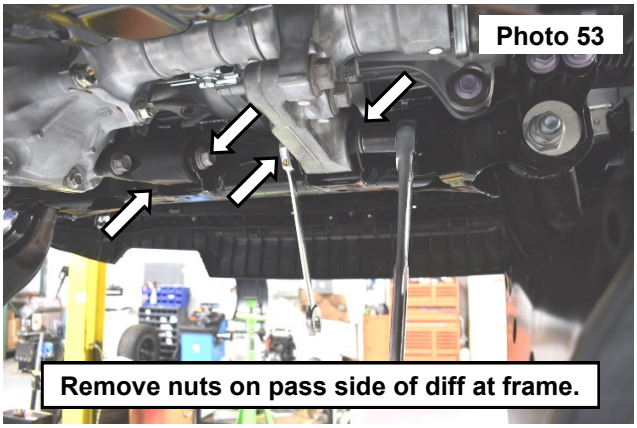


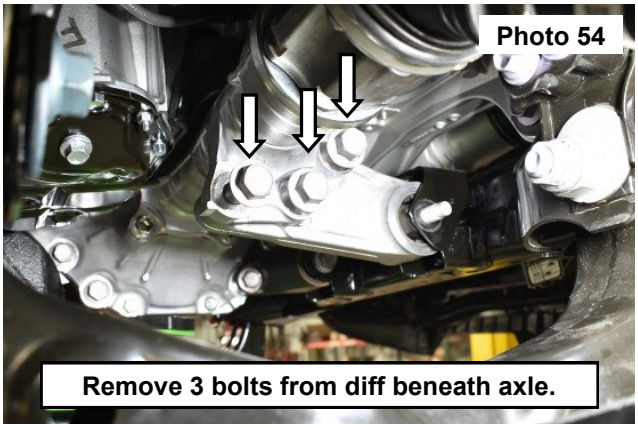
48. Install the brake line to the brake line bracket using the supplied 5/16” x 3/4” bolts, washer, and flange nut. Tighten using a 12mm and 13mm socket/wrench. **See Photo 51**.
49. Install the brake line to the upper control arm using the stock hardware. **See Photo 52**.



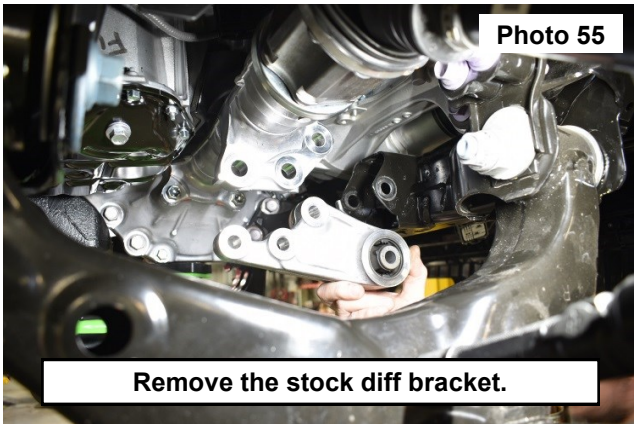


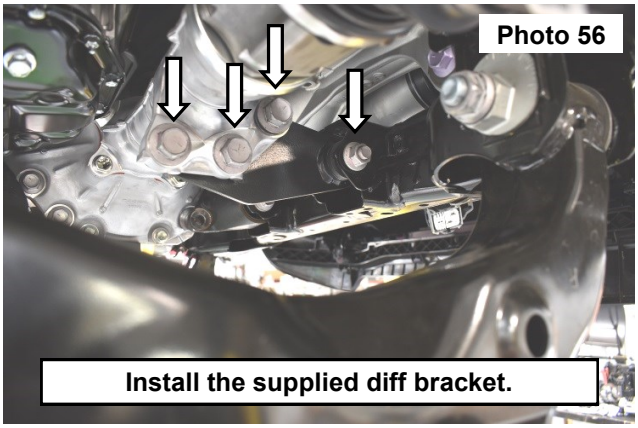
50. Support the differential with a jack stand and remove the nuts on the pass side of the diff that attach the diff bracket to the frame using two 19mm sockets/wrenches. **See Photo 53**.
51. Remove the 3 bolts from the diff bracket beneath the axle using two 22mm socket/wrenches. **See Photo 54**.



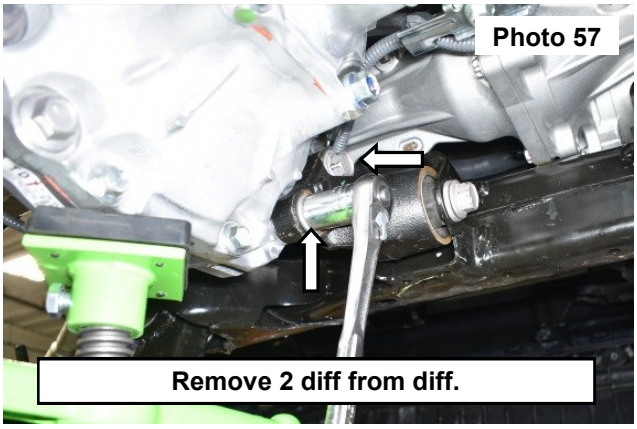


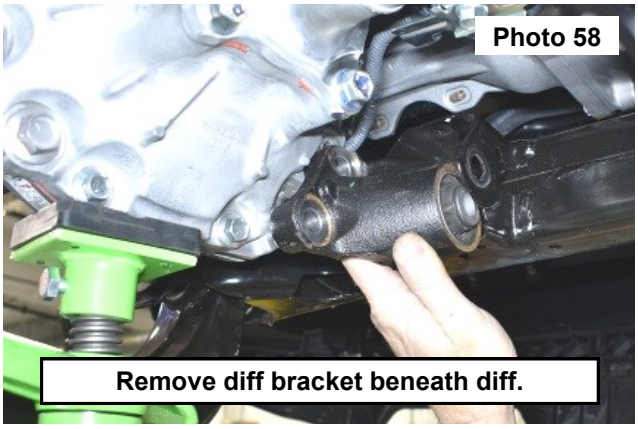
52. Remove the stock diff bracket beneath the axle. **See Photo 55**.
53. Install the supplied diff bracket beneath the axle using the stock bolts and (3) of the supplied 16mm flat washers and (3) lock nuts. **See Photo 56**.



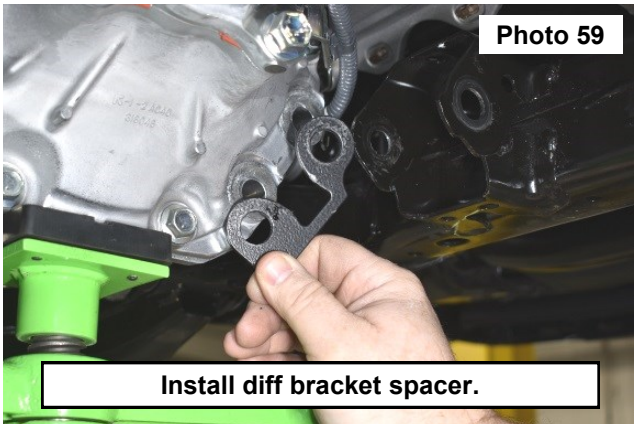


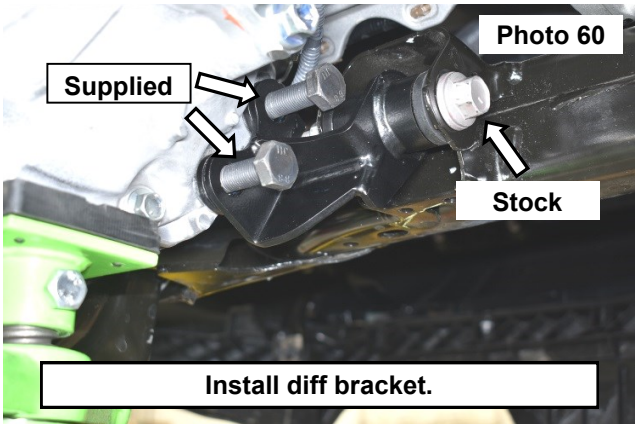
54. Remove the 2 bolts from the diff bracket beneath the diff using a 22mm socket/wrench. **See Photo 57**.
55. Remove the stock diff bracket beneath the diff. **See Photo 58**.



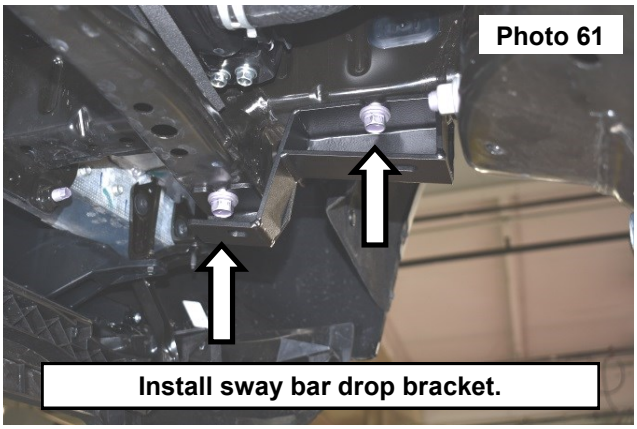


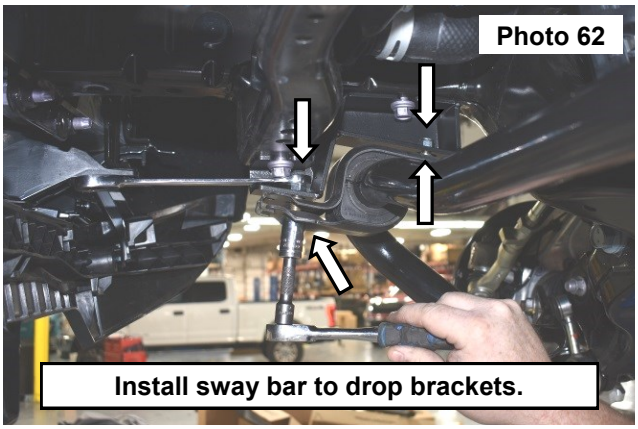
56. Install the diff bracket spacer and diff bracket beneath the diff using stock hardware at the frame and supplied 14mm x 65mm bolts and (2) 14mm flat washers in diff using a 22mm socket/wrench. **See Photo 59** and **Photo 60**.



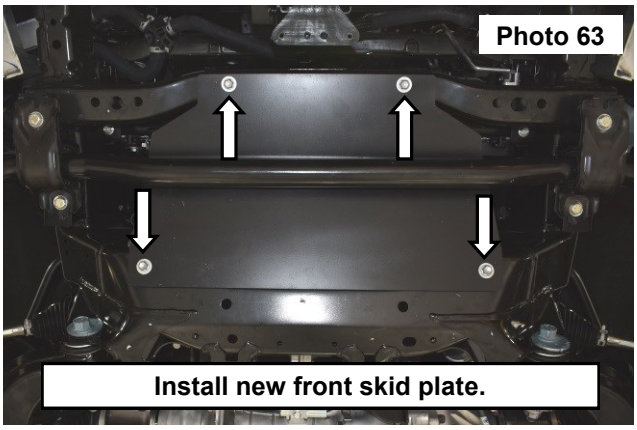


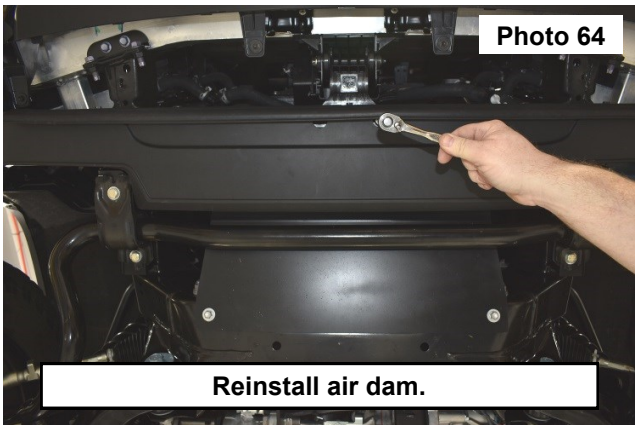
57. Install the Dr and Pass side sway bar drop brackets using the stock sway bar hardware. **See Photo 61**.
58. Install the sway bar to the lower control arms using stock hardware and swing it up and attach to the drop brackets using the supplied 7/16” x 1.25” bolts, nuts, and washers. Tighten using two 5/8” socket/wrenches. **See Photo 62**.



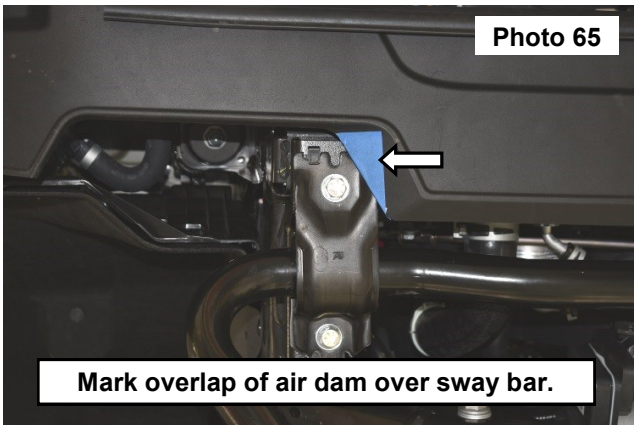


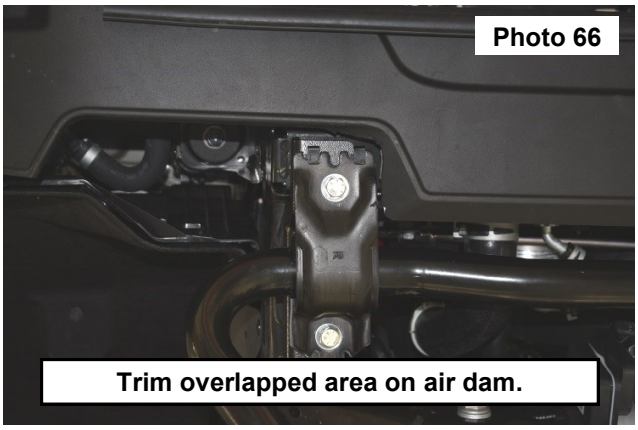
59. **Reconnect the rack and pinion plugs**.
60. Install the new front skid plate using stock hardware. **See Photo 63**.
61. Reinstall the air dam. **See Photo 64**.



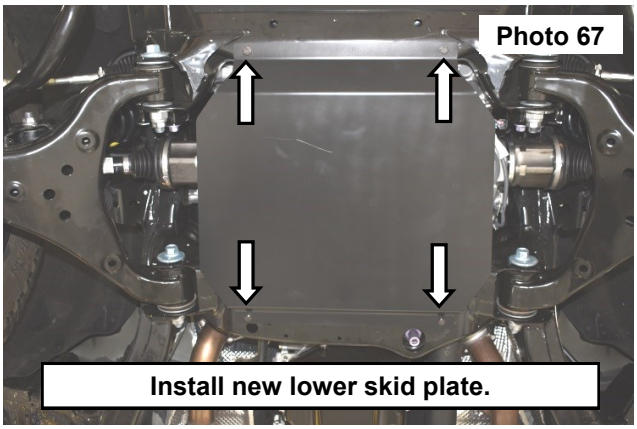


62. Mark the overlap of the air dam over the sway bar bracket. **See Photo 65**.
63. Trim the overlapped area on the air dam. **See Photo 66**.





64. Install the new lower skid plate with the supplied 8mm x 25mm bolts, flat washers, and lock washers using a 13mm socket/wrench. **See Photo 67**.



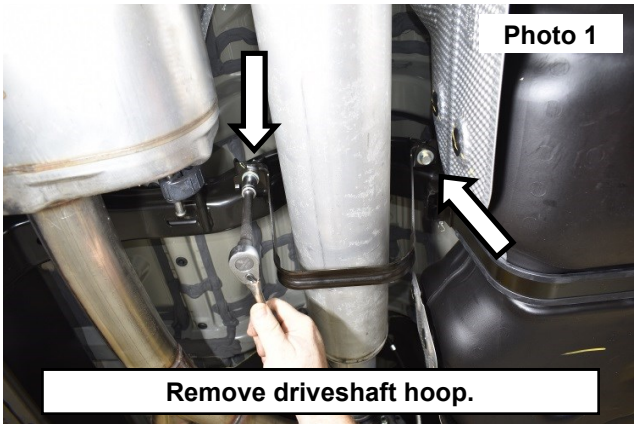
65. Reinstall the remaining components in reverse order of assembly.
66. Put on wheels and lower.

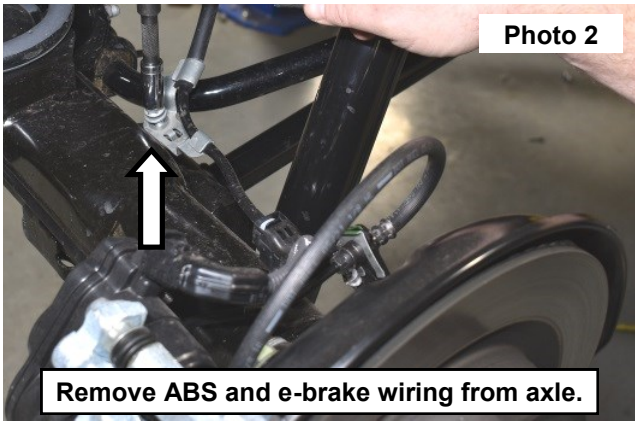


REAR INSTALLATION INSTRUCTIONS

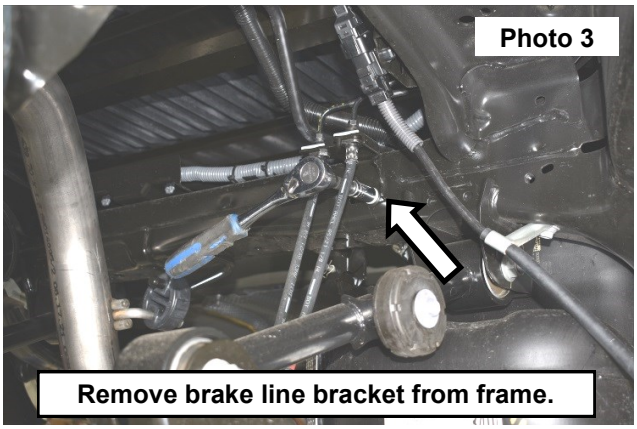
⚠NOTICE Before performing any step on this instruction sheet, it is recommended to place the vehicle in the lowest rear suspension setting.

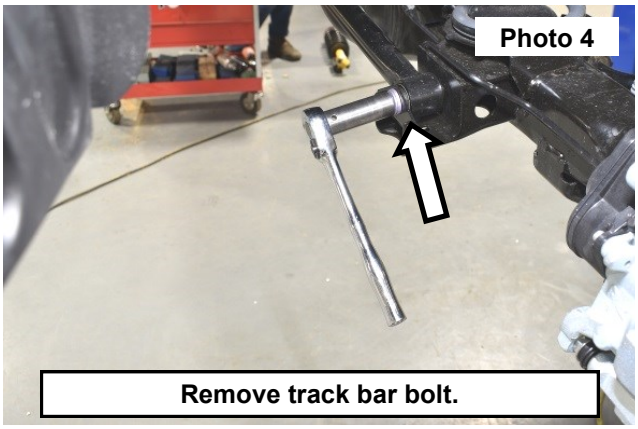
1. Jack up the rear of the vehicle and place on jack stands. Remove the rear wheels.
   NOTE: Support the axle before beginning tear down.
2. Remove the driveshaft hoop using a 14mm socket/wrench. **See Photo 1**.
3. Remove the ABS and e-brake wiring harness from the axle on the Dr and Pass sides using a 12mm socket/wrench. **See Photo 2**.



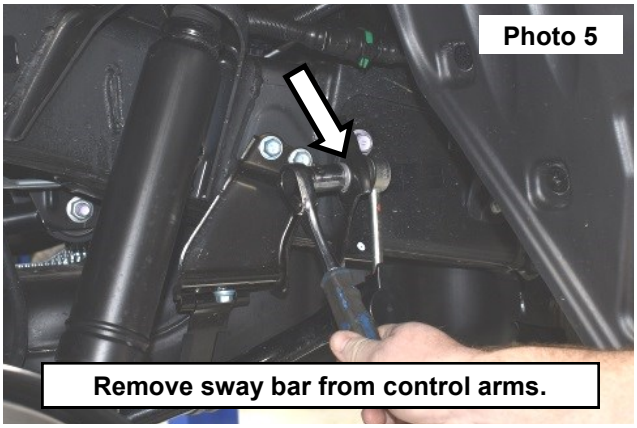


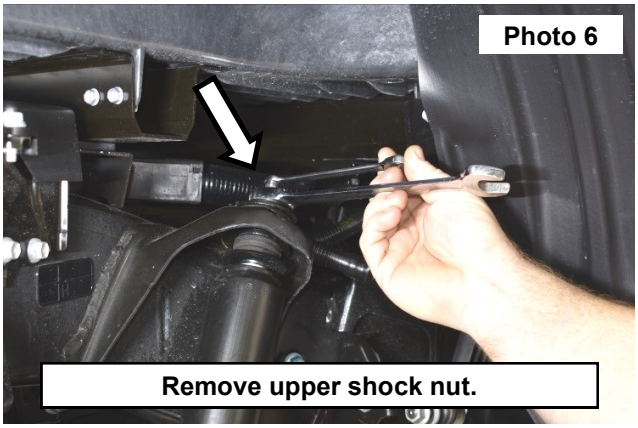
4. Remove the brake line bracket from the frame using a 12mm socket/wrench. **See Photo 3**.
5. Remove the track bar bolt using a 19mm socket/wrench. **See Photo 4**.



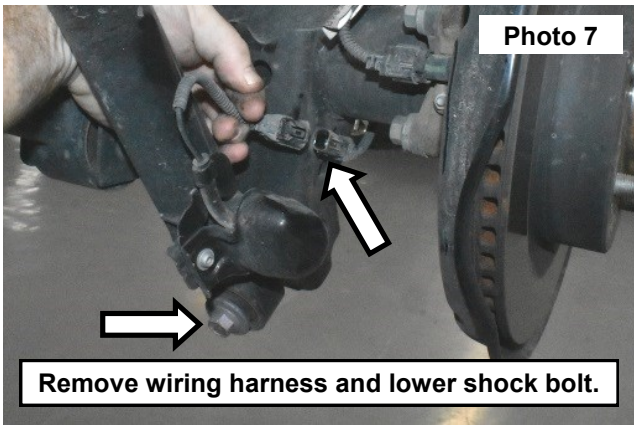


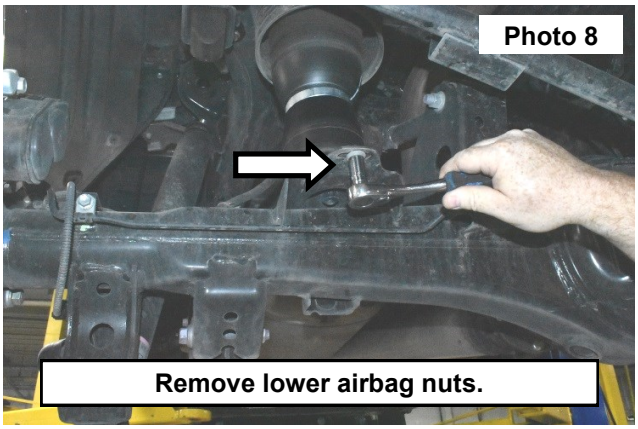
6. Remove the sway bar link nut on Dr and Pass sides using a 17mm socket/wrench. **See Photo 5**.
7. Remove the upper shock nut using a 19mm wrench and 8mm wrench to hold the stem. **See Photo 6**.



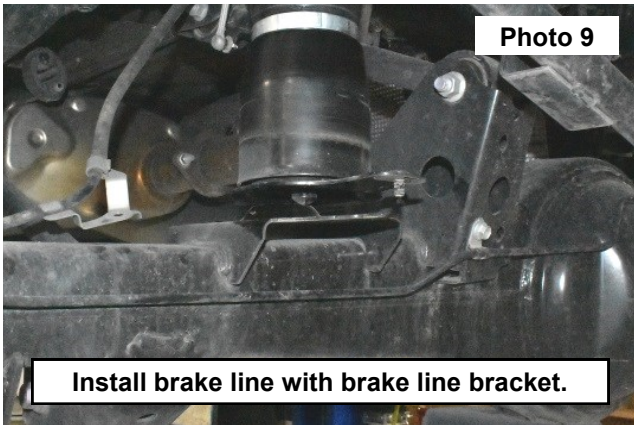


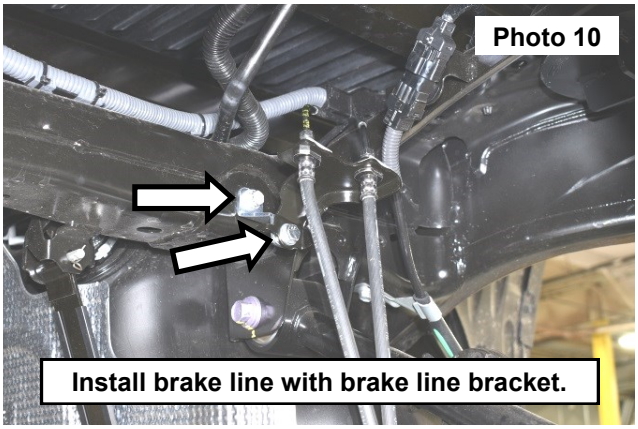
8. Remove the rear adaptive shock wiring harness and remove the lower shock bolt using a 17mm socket/wrench. **See Photo 7**.
9. Deflate the airbag to the lowest setting and remove the lower nuts using a 12mm socket/wrench. **See Photo 8**.



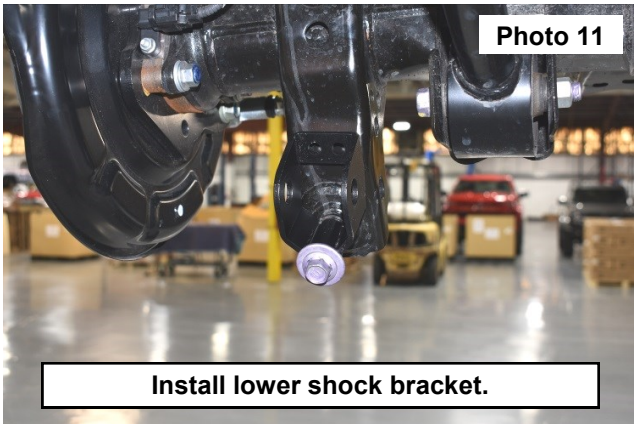


10. Raise the truck up or lower the axle to allow for the airbag spacer to fit. **See Photo 9**.
11. Install the brake line with brake line bracket to the frame using the stock bolt at the frame and the supplied 5/16” x 3/4” bolts, washer, and nut using 1/2” socket/wrench. **See Photo 10**.
NOTE: Make sure brake lines do not rub against the top of the frame by bending away from frame slightly.



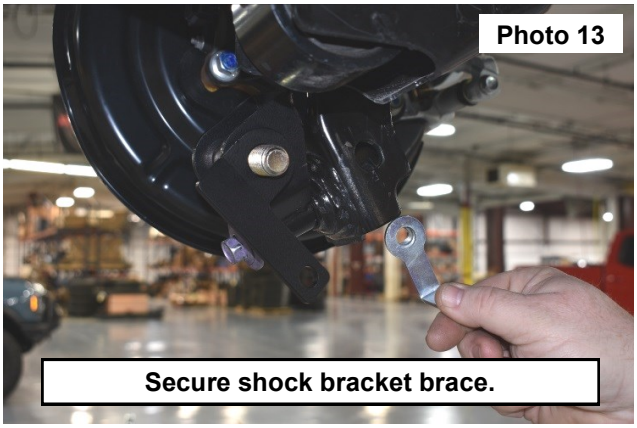


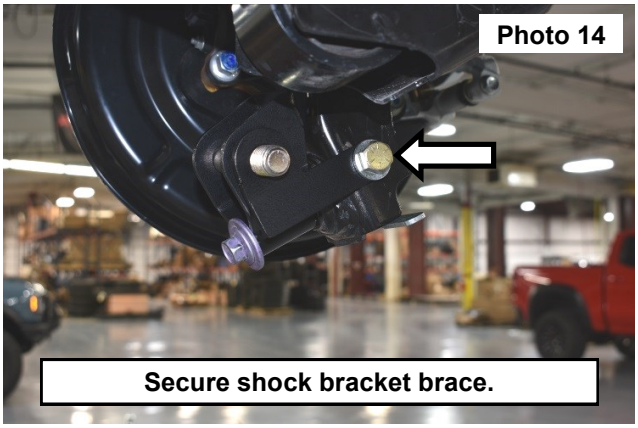
12. Install the lower shock bracket using stock hardware. Do not fully tighten. **See Photo 11**.
13. Insert the 3/4” x 3.5” bolt through lower shock bracket and hang the shock bracket brace on bolt. **See Photo 12**.



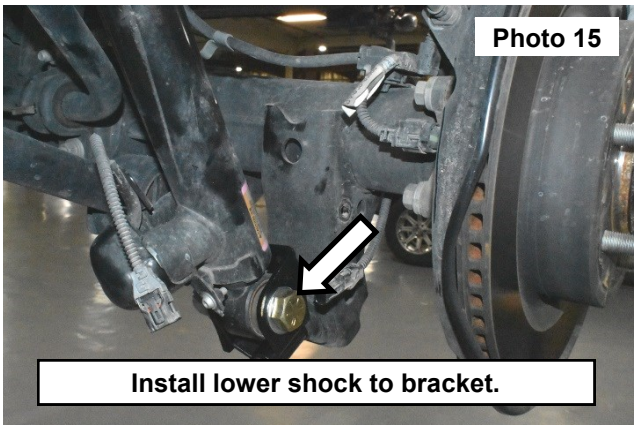


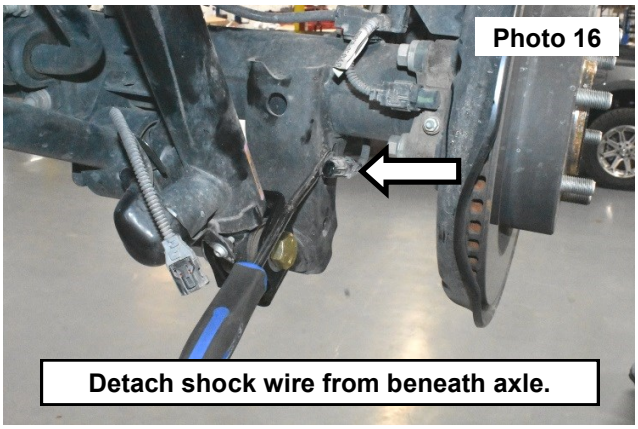
14. Secure the shock bracket brace with the supplied flag nut and 1/2” x 1.25” bolt using a 3/4” socket/wrench. **See Photo 13** and **Photo 14**.



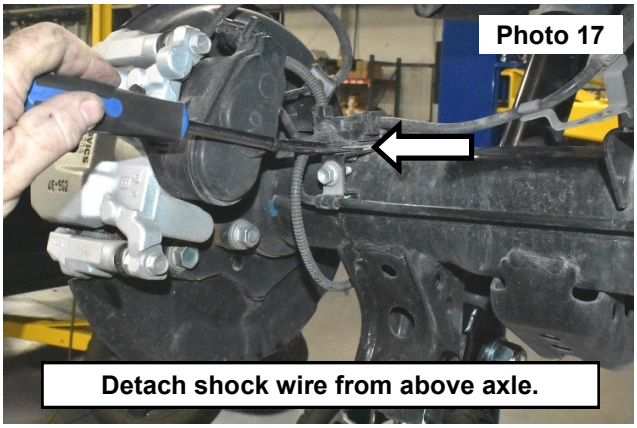


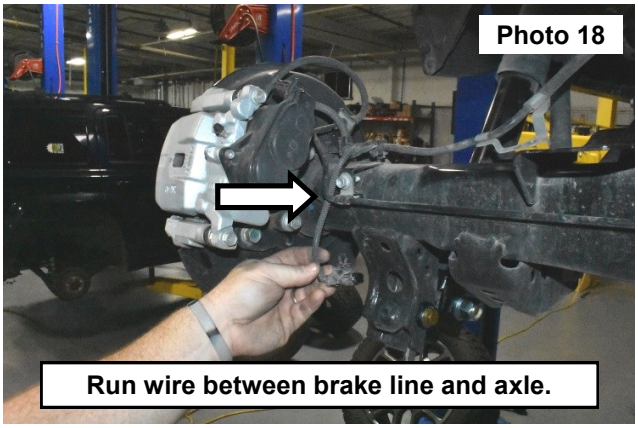
15. Install the shock to the lower shock extension with the 3/4” bolt, nut and washer using two 1-1/8” sockets/wrenches. **See Photo 15**.
16. Detach the shock wire from beneath the axle using a trim remover tool. **See Photo 16**.



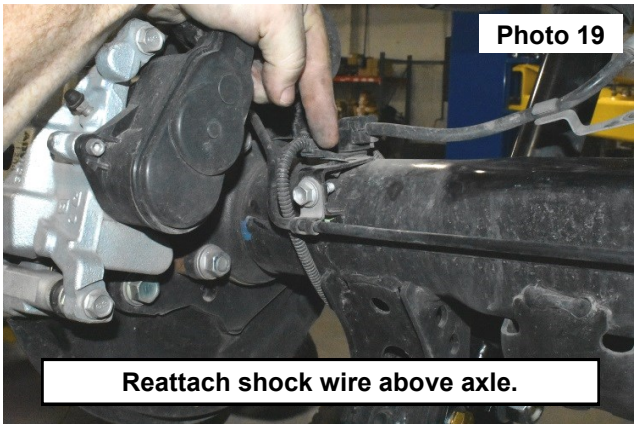


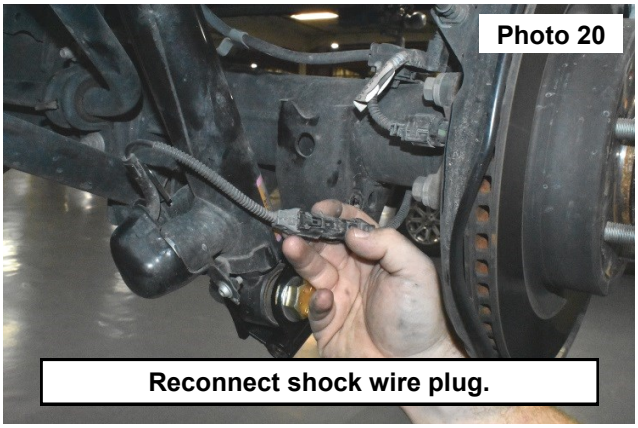
17. Detach the shock wire from above the axle using a trim remover tool. **See Photo 17**.
18. Run the shock wire between the brake line and axle to give some more slack. **See Photo 18**.



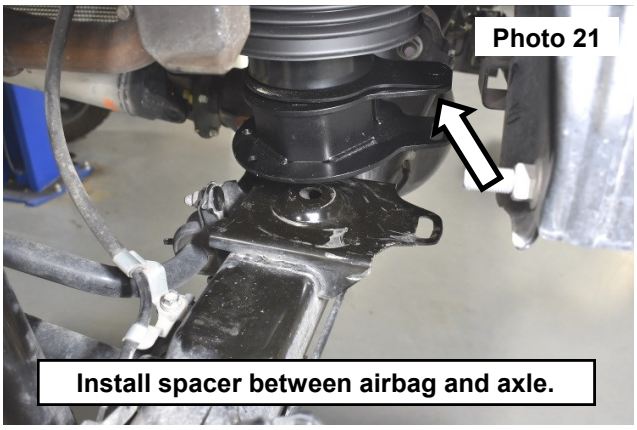


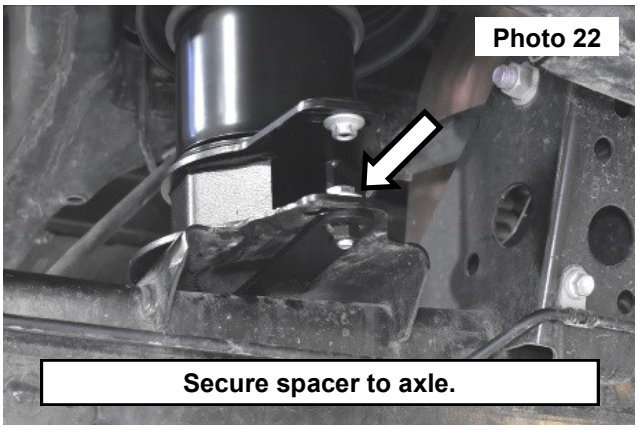
19. Reattach the shock wire above the axle. **See Photo 19**.
20. Reconnect the shock wire plug. **See Photo 20**.



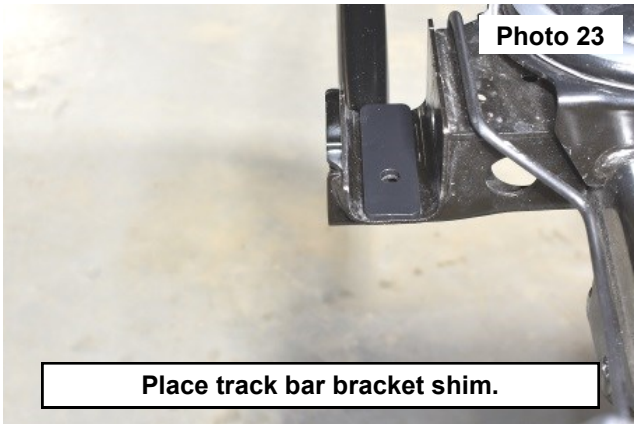


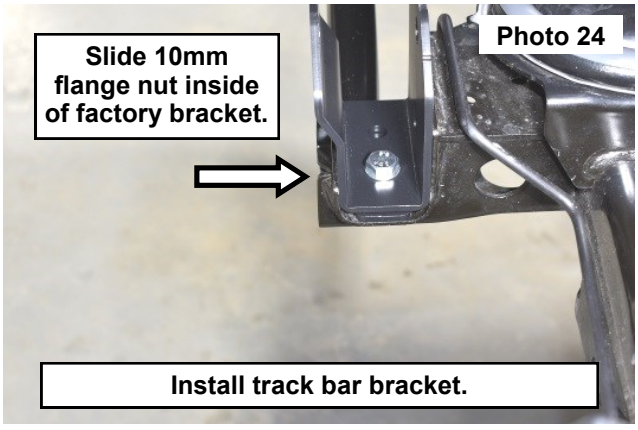
21. Install the airbag spacer between the airbag and axle using the stock nut. **See Photo 21**.
22. Secure the airbag spacer to the axle with the supplied 3/8" x 1-1/4" bolts, flat washer, lock washer, and flag nut using a 9/16" socket/wrench. **See Photo 22**.
    NOTE: The straight flag nut is the Dr side and the curved flag nut is the Pass side.



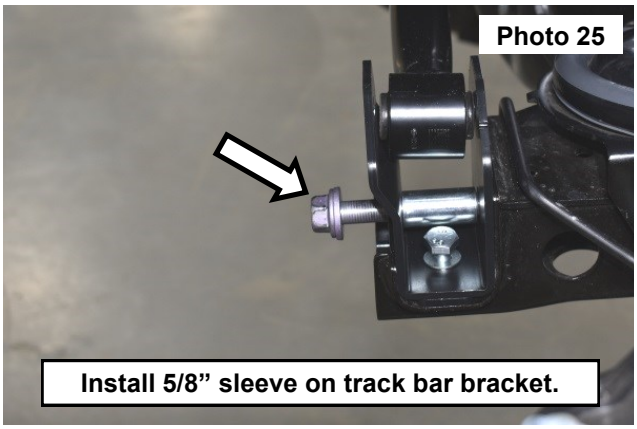


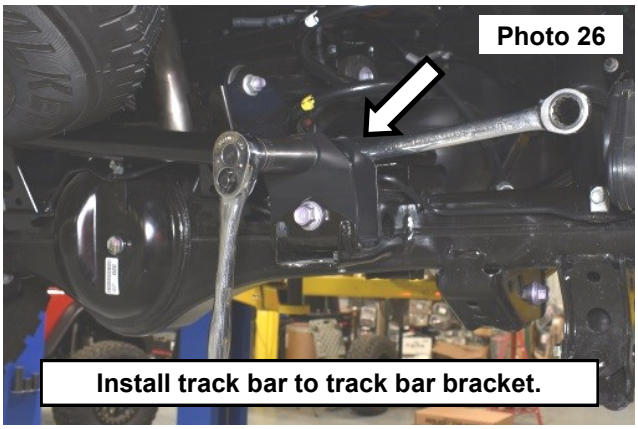
23. Place track bar bracket shim on the stock track bar bracket location with hole toward Pass side. **See Photo 23**.
24. Install the track bar bracket with the supplied 10mm x 35mm bolt, washer, and flange nut using a 15mm and 17mm socket/wrench. Slide the supplied 10mm flange nut inside of the factory track bar bracket. **See Photo 24**.



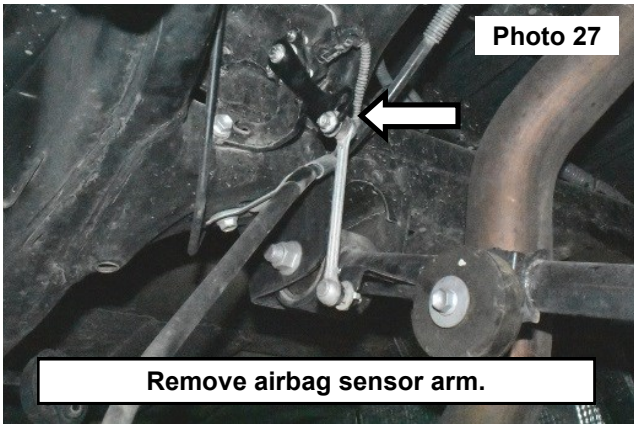


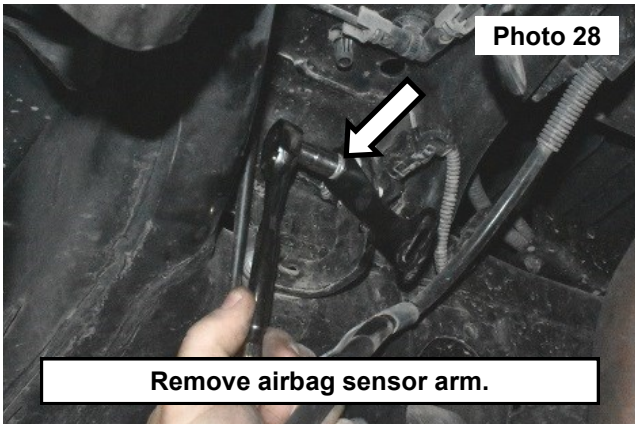
25. Install the 5/8” sleeve in the track bar bracket using the stock hardware. **See Photo 25**.
26. Install the track bar to the track bar bracket using the supplied 14mm x 80mm bolt and nut using two 22mm sockets/ wrenches. **See Photo 26**.



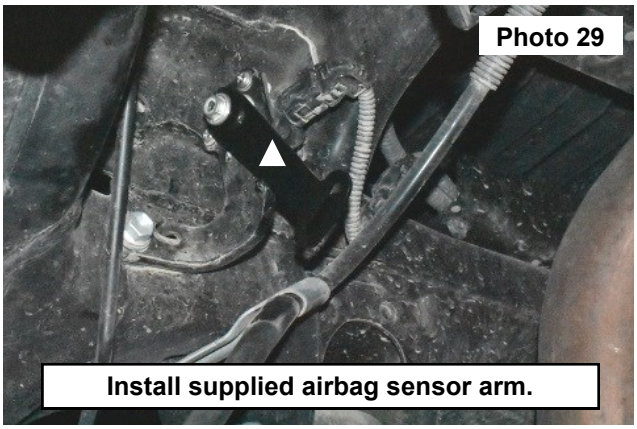


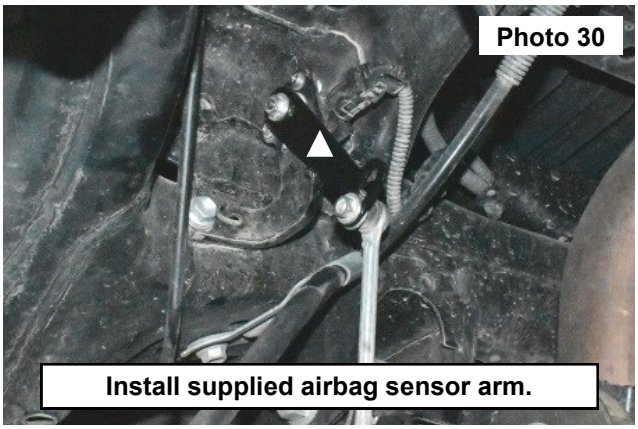
27. Remove the airbag sensor bracket using a 10mm socket/wrench. **See Photo 27** and **Photo 28**.



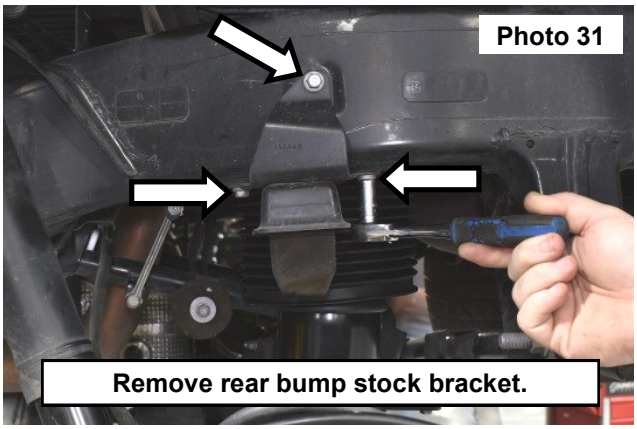


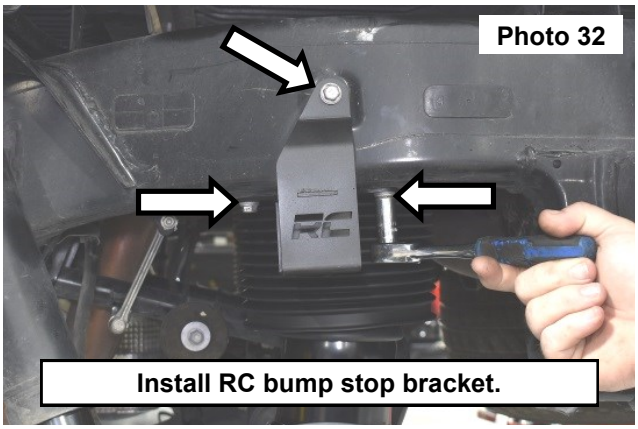
28. Install the supplied airbag sensor bracket with the arrow pointing up using the stock hardware.
See Photo 29 and **Photo 30**.
NOTE: Install the arm in the center of the grooved slot and test lift height. If the rear needs to be lowered, move the arm towards the bottom of the slot and if the rear needs to be raised, move the arm towards the top of the slot.





29. Remove the rear bump stop brackets from the Dr/Pass sides using a 12mm socket/wrench. **See Photo 31**.
30. Install the supplied RC bump stop brackets on the Dr/Pass sides using the stock hardware. **See Photo 32**.





31. Install the supplied bump stop to the RC bracket using the supplied hardware. **See Photo 33** and **Photo 34**.





32. Reinstall the remainder of the components in reverse order of tear down.
33. Reconnect the battery.
34. Put on wheels and lower.



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