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Rough Country 76931 Installation Instructions

3.5-Inch Lift Kit for 2025 Toyota 4Runner 4WD

Part number: 76931

trailfortress.com/rough-country-3-5-inch-lift-kit-76931

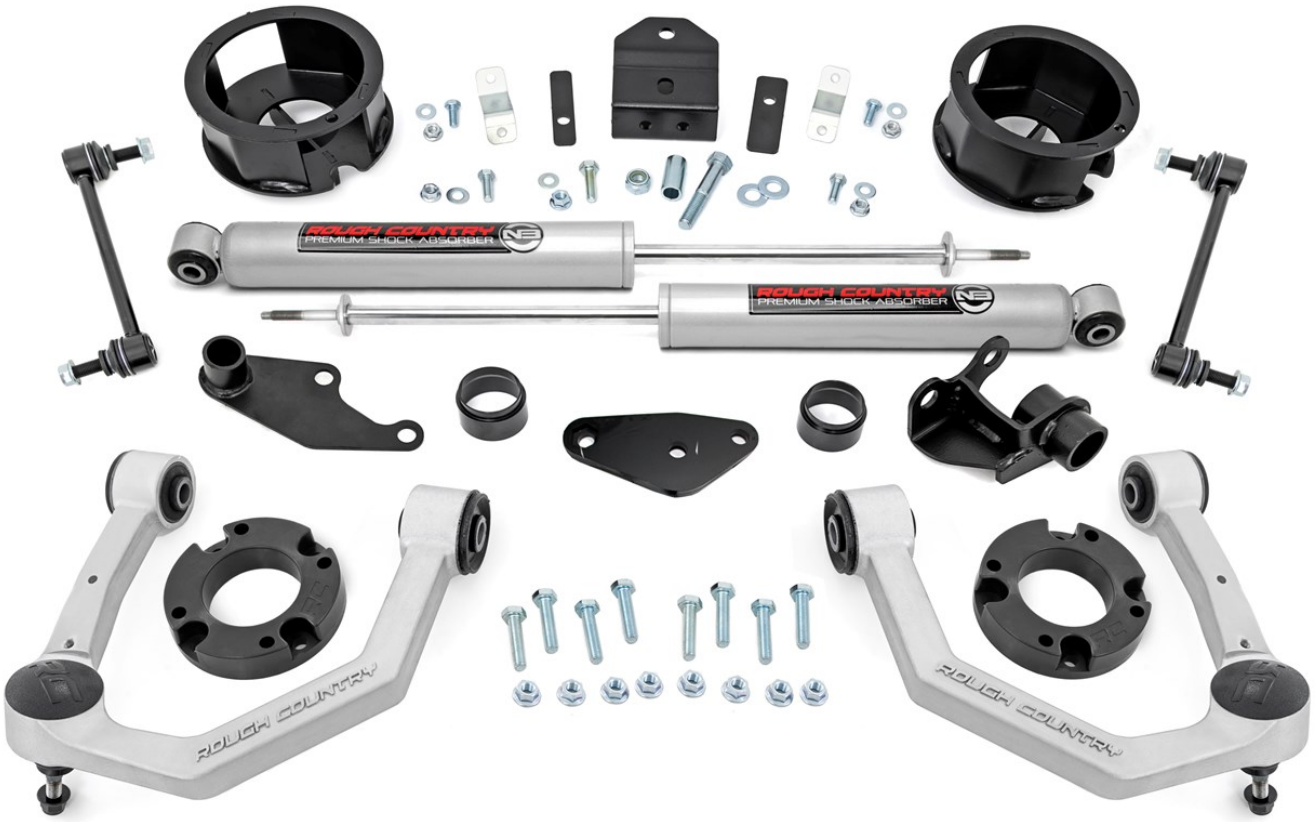
Scan for fitment, price and install help

921769310

TOYOTA 2025 4 Runner TRD Off Road 3.5in

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.



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:

Upper Strut Spacer x2
Strut Pre Load x2
Driver Side Sway Link x1
Pass Side Sway Link x1
Rear N3 Shocks x2
Rear Track Bar Bracket x1
Rear Spring Spacer x2
Rear Brake Line Bracket x1
Rear Track Bar Bracket Shim x1(Narrow)
Rear Track Bar Bracket Shim x1 (Wide)

Tools Needed:

Strut Compressor
Hammer
Pliers
Jack
Jack Stands
10mm Wrench or Socket
12mm Wrench or Socket
14mm Wrench or Socket
15mm Wrench or Socket
16mm Wrench or Socket
17mm Wrench or Socket
18mm Wrench or Socket
19mm Wrench or Socket
22mm Wrench or Socket
24mm Wrench or Socket
36mm Wrench or Socket

Hardware Included:

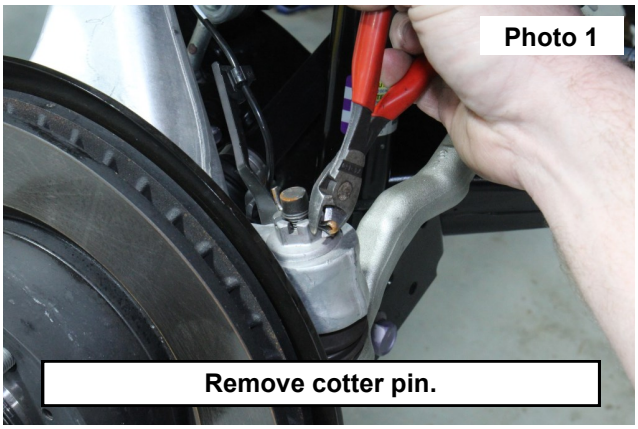
1/2” Flat Washer x2
3/8” x 1” Bolt x2
3/8” Flat Washer x4
5/16” Flat Washer x2
3/8” Flange Lock Nut x2
10mm x 35mm Bolt x1
10mm Flat Washer x1
Sleeve x1
14mm x 80mm Bolt x1
14mm Lock Nut x1
9/16” Flat Washer x2
12mm x 35mm Bolt x2
12mm Flat Washer x2
12mm Flange Lock Nut x2
3/8” Hex Nut x2
3/8” Lock Washer x2
5/16” x 3/4” Bolt x2
5/16” Flange Lock Nut x2

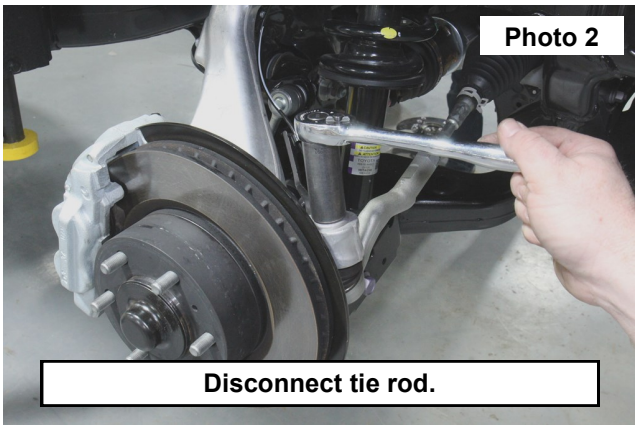
Diff Hardware

Bushings x4
Sleeve x2
14mm-1.25 x 60mm x2
.562 Flat washer x2
16mm-1.5 Lock Nut x2
16mm Flat Washer x2
Stem Bushings x2
12mm Lock Nut x2
12mm– 1.25 x35mm Bolt x1
12mm Flat Washer x2
12mm x 70mm Bolt x1
12mm x80mm Bolt x1
1/2” Flat Washer x1

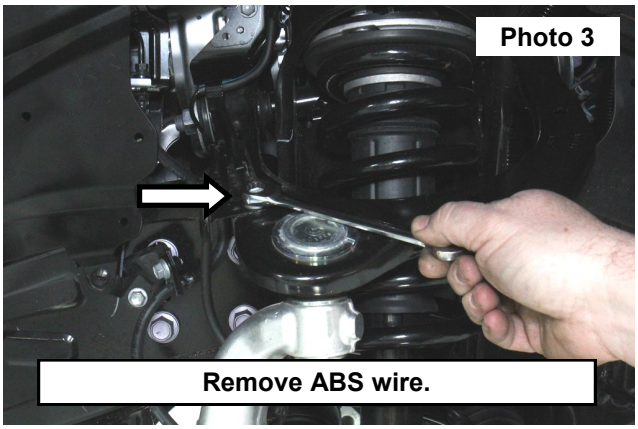
INSTALLATION INSTRUCTIONS

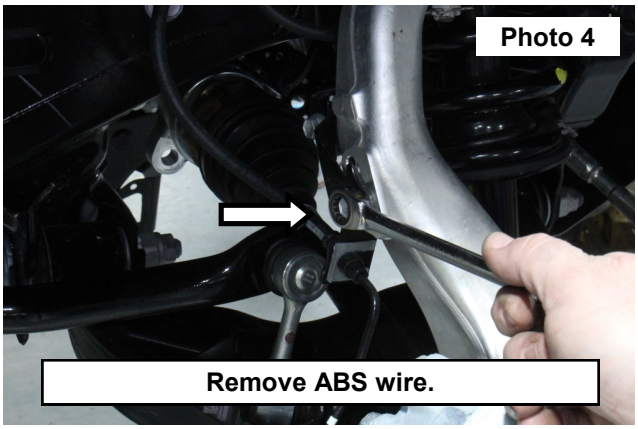
1. Jack up the front of the vehicle and support the vehicle with jack stands, so that the front wheels are off the ground
2. Remove the front tires/wheels using a 21mm deep well socket.
3. Remove the cotter pin from the tie-rod end with a pair of pliers. Retain hardware for reuse. **See Photo 1.**
4. Loosen, but do not fully remove the castle nut with a 24mm socket. Strike the steering knuckle where the tie-rod end is with a hammer to release the taper. Finish removing the castle nut. Retain hardware for reuse. **See Photo 2.**



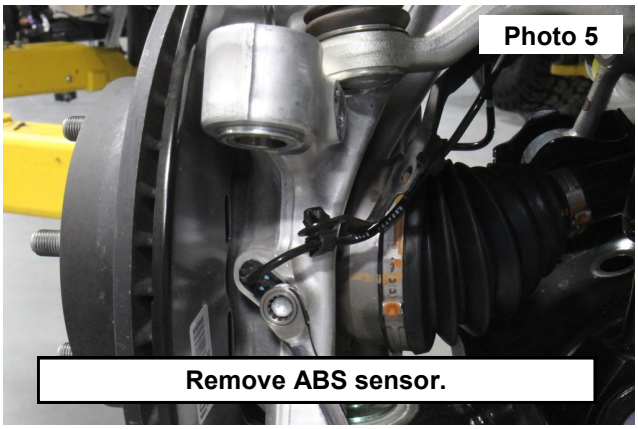


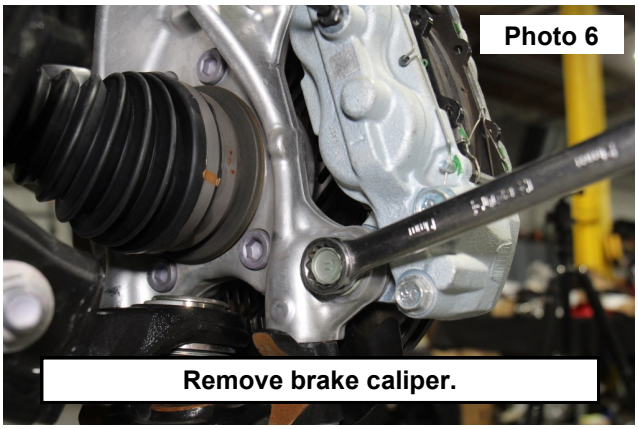
5. Remove the ABS wires from the upper control arm and steering knuckle using a 12mm wrench. Retain hardware for reuse. **See Photo 3 and Photo 4.**



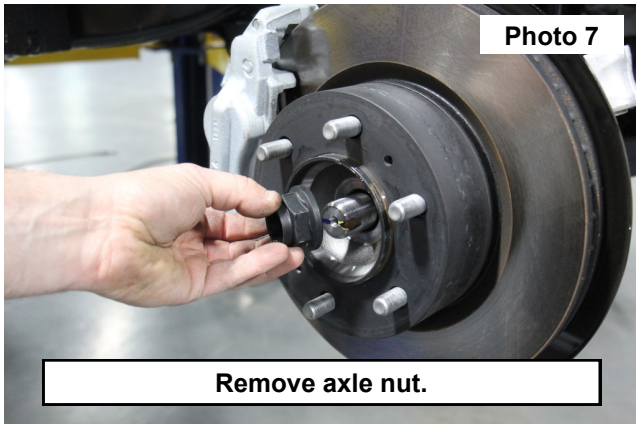


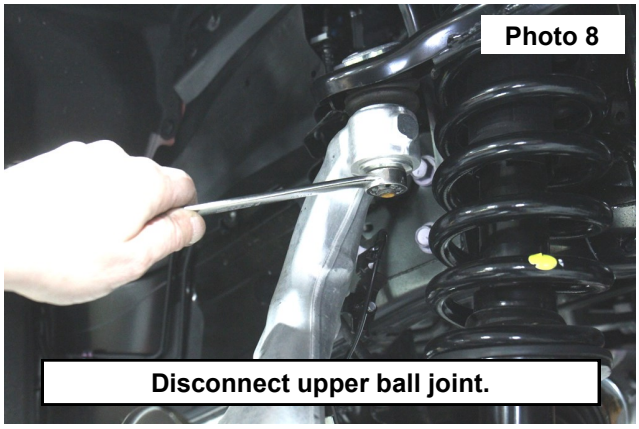
6. Remove ABS sensor from knuckle using a 10mm wrench. Retain hardware for reuse. **See Photo 5.**
7. Use a 19mm socket to remove the bolts holding the brake caliper to the knuckle. Hang brake caliper out of the way. Retain hardware for reuse. **See Photo 6.**



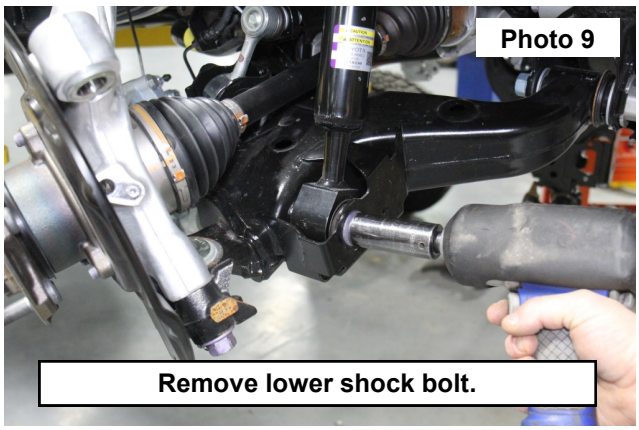


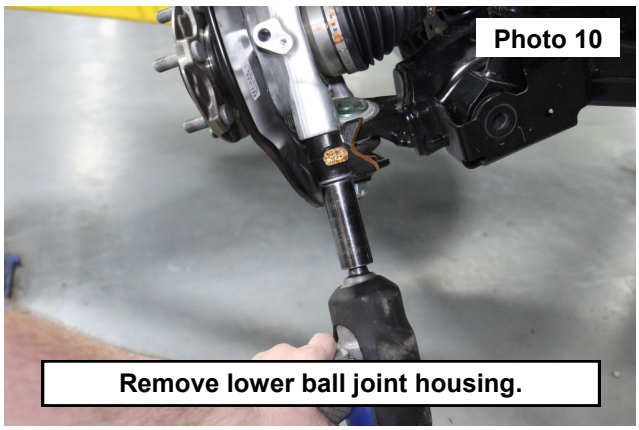
8. Remove the dust cover from the hub bearing with a pry tool and use a 36mm socket to remove the axle nut. Retain hardware for reuse. **See Photo 7.**
9. Remove the cotter pin from the upper ball joint nut and use a 19mm socket to loosen, but not remove the nut. Use a hammer to release the taper of the upper ball joint. Remove the nut. Retain hardware for reuse. **See Photo 8.**



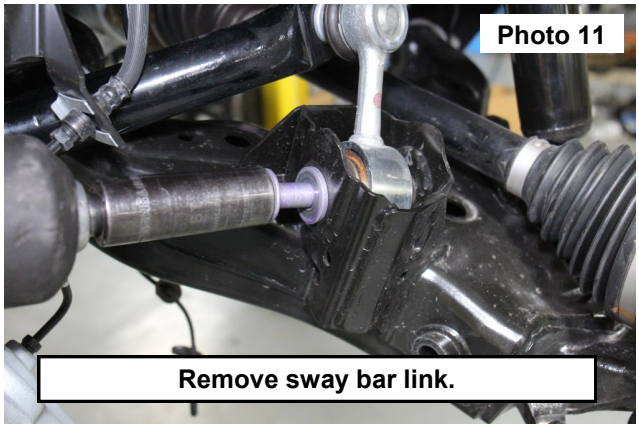


10. Remove lower strut bolt using a 22mm socket. Retain hardware for reuse. **See Photo 9.**
11. Use a 22mm socket to remove the factory bolts holding the lower ball joint housing to the steering knuckle. Retain hardware for reuse. **See Photo 10.**



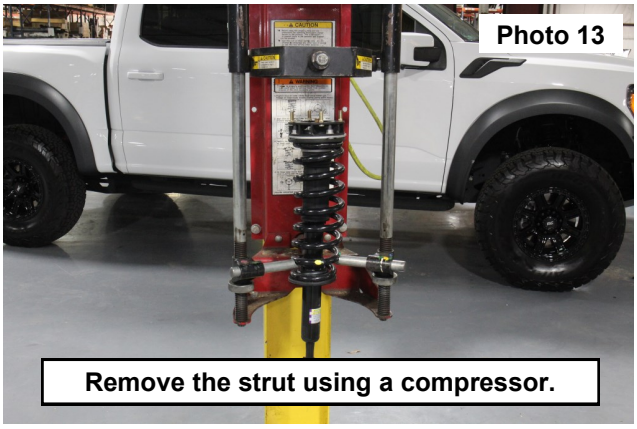


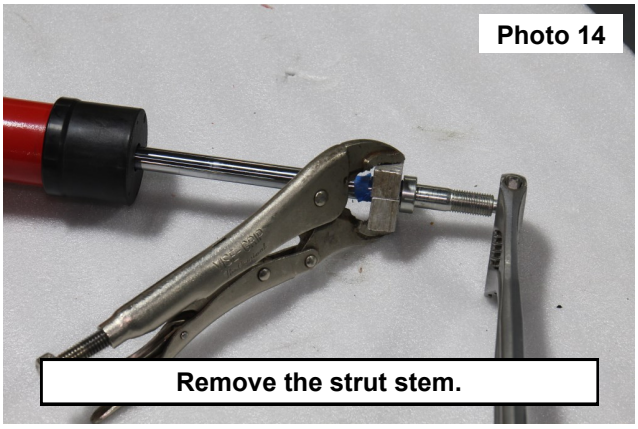
12. Remove sway bar link from the lower control arm with a 19mm socket. Retain hardware for reuse. **See Photo 11.**
13. Loosen, but do not remove, the lower control arm bolts using a 24mm wrench. Swing lower control arm out of the way.
14. Remove upper strut nuts using a 14mm wrench. Retain hardware for reuse. **See Photo 12.**
15. Remove strut from vehicle.





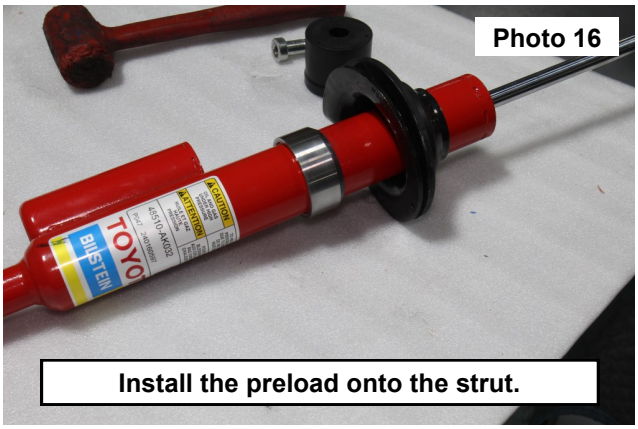
16. Place strut in a strut compressor and mark the placement of the lower spring seat in relation to the shock with a paint pen. Compress the strut and use a 19mm socket to remove the top strut hat. Disassemble strut. **See Photo 13.**
17. Remove the upper strut stem from the shaft of the strut. Wrap tape or small pieces of aluminum can be clamped on-to the shaft of the strut to hold wile removing the stem. **See Photo 14.**



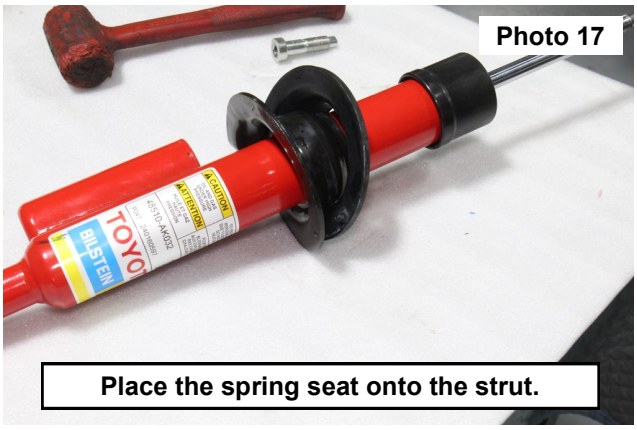


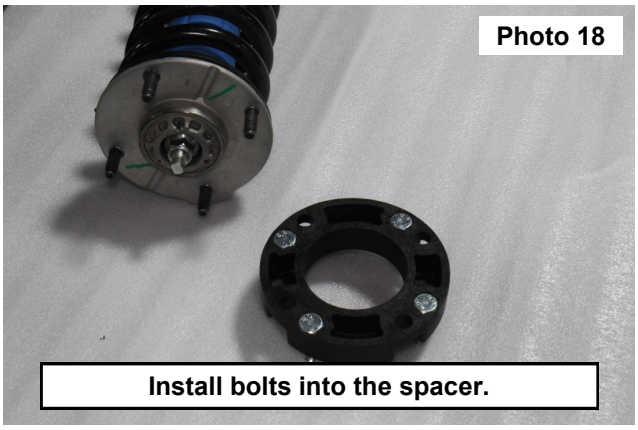
18. Remove the upper dust cap from the strut using a rubber mallet and the coil spring seat. **See Photo 15.**
19. Install the front preload spacer onto the strut body with the wider part of the spacer going towards the lower strut mount. **See Photo 16.**



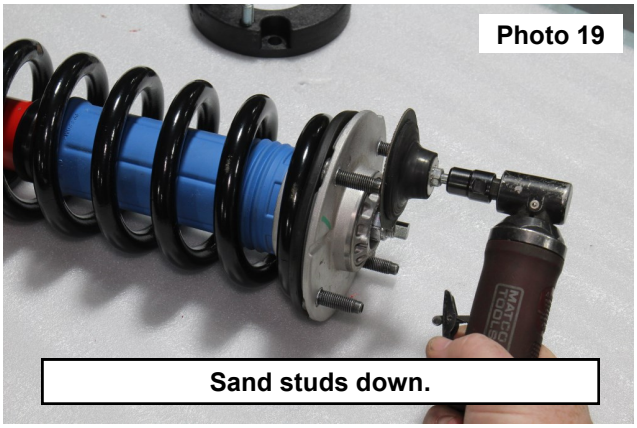


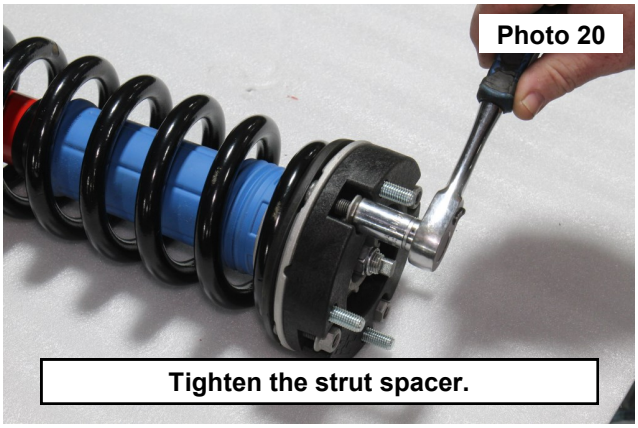
20. Rest the spring seat and spring isolator on the preload spacer. Install the dust shield and the strut stem onto the strut. Reassemble the strut using a strut compressor and 19mm socket. Be sure to keep the previous paint marks aligned. **See Photo 17.**
21. Place the bolts into the new strut spacer. **See Photo 18.**



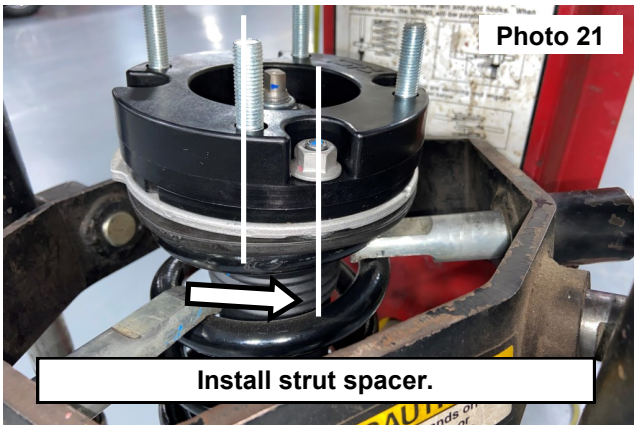


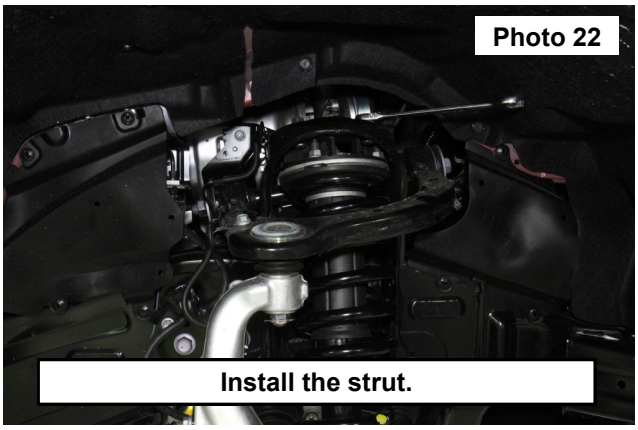
22. Install the strut spacer onto the strut. Check the clearance from the top of the OE studs. Mark the studs and remove the spacer, then use a sander to sand the studs down. **See Photo 19.**
23. Once the studs are fully clearance from the top of the strut secure the spacer. Use the factory strut nuts to secure spacer to strut. Tighten with a 14mm socket. Place the strut spacer on top of the strut. Use the factory top strut hardware to secure the spacer to the strut. Tighten with a 14mm wrench. **See Photo 20.**





24. Place strut back into a strut compressor. Compress strut enough so the top hat can spin. Clock the top hat so the stud in the strut spacer is in the same location as the factory stud was. **See Photo 21.**
25. Reinstall the strut using the supplied 10mm flange nuts. Tighten with a 15mm wrench. Torque to 45ft-lbs. **See Photo 22.**

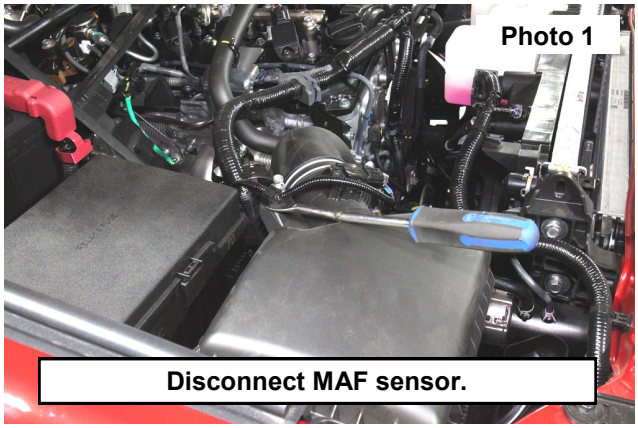




26. Repeat for other side of vehicle.
27. Reinstall factory lower strut hardware using a 22mm socket and wrench. Torque to 61ft-lbs
28. Reinstall the lower ball joint housing to the knuckle using the factory hardware. Tighten with a 22mm socket. Torque to 118ft-lbs.

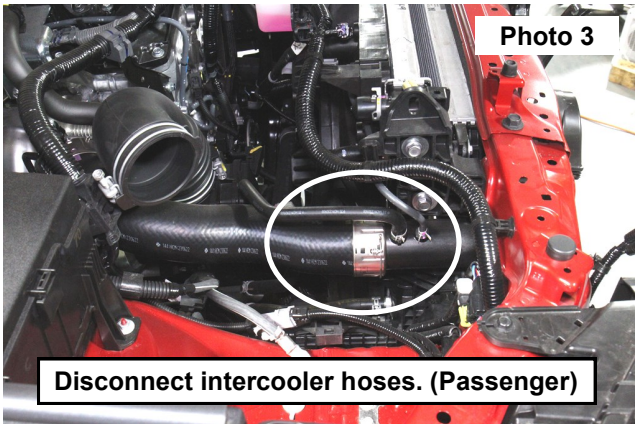
UCA INSTALLATION

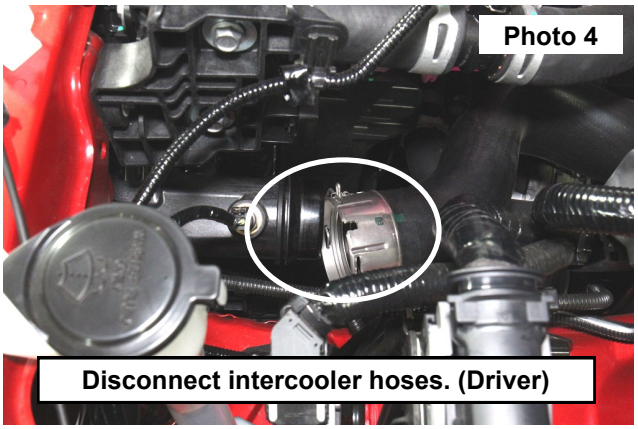
1. Unplug the mass airflow sensor and disconnect the wire from the air box. **See Photo 1.**
2. Use a 10mm wrench to loosen the clamp of the air intake hose. Remove air intake hose from air box. **See Photo 2.**



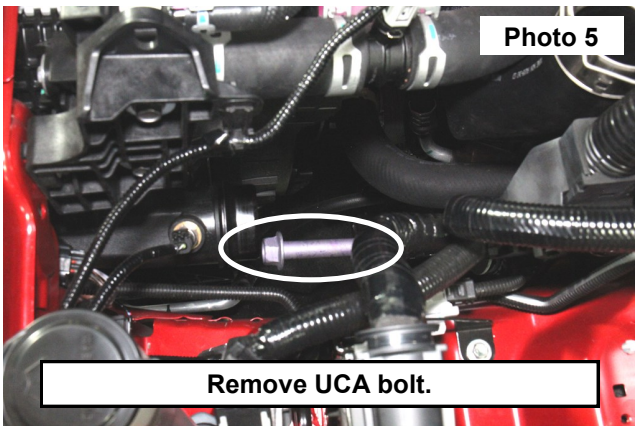


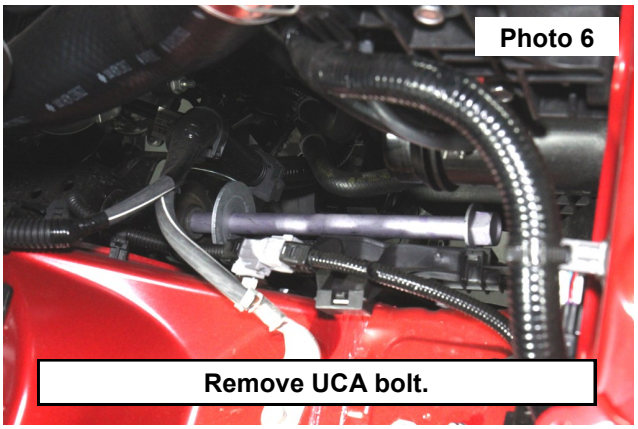
3. Undo the metal retaining clips for the intercooler hose. Do this for both sides. **NOTE:** Photo 3 has air box removed for better visualization. **See Photo 3 and Photo 4.**



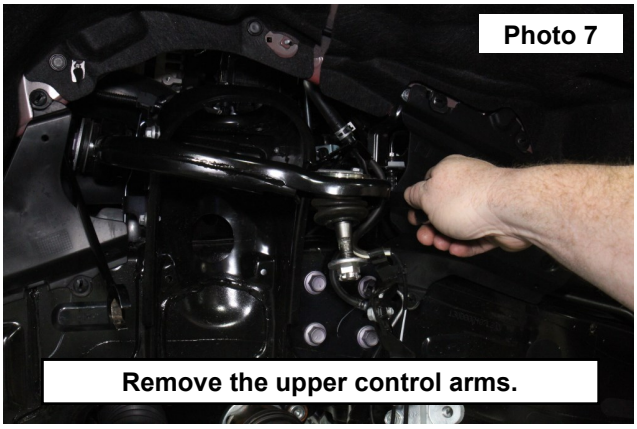


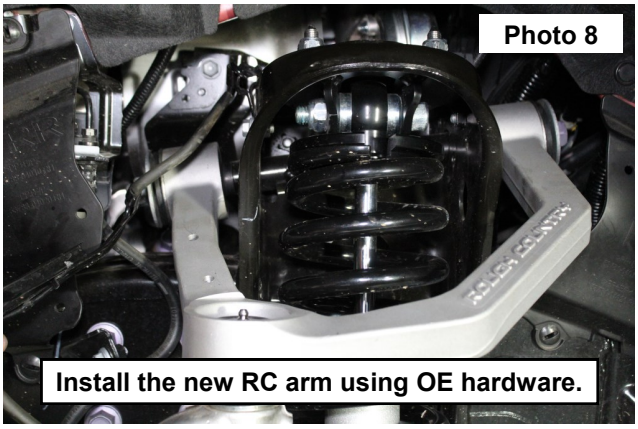
4. Carefully move the intercooler hoses out of the way.
5. Using a 22mm wrench remove driver side upper control arm bolt. **See Photo 5.**
6. Install the driver side upper control arm using the factory hardware. Tighten with a 22mm wrench.
7. On the passenger side, push the wiring harness out of the way and remove the factory upper control arm bolt with a 22mm wrench. **See Photo 6.**





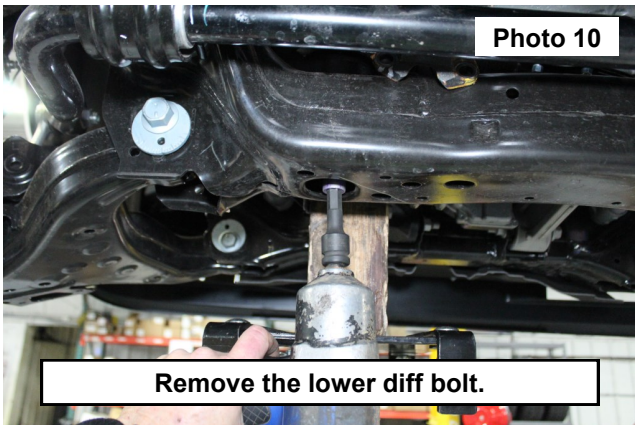
8. Remove the upper control arms. **See Photo 7.**
9. Install passenger side upper control arm using the factory hardware. **See Photo 8.**



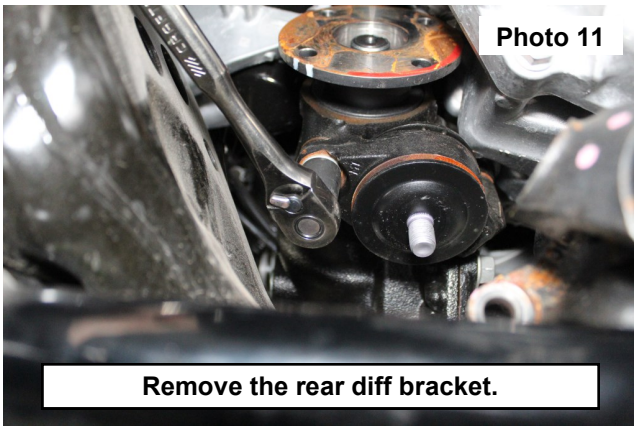


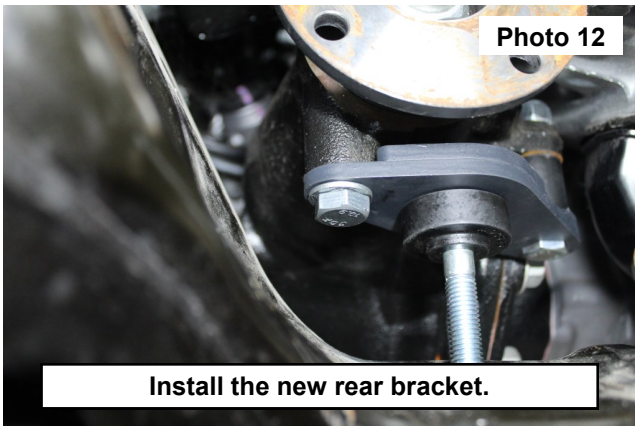
10. Reverse steps 1-6 to secure the intercooler hoses and air box.
11. Support the front diff. Mark the drive shaft and remove front drive shaft from diff 14mm socket and wrench. **See Photos 9.**
12. Remove the lower diff bolt from the cross member using a 12mm Allen wrench. **See Photo 10.**



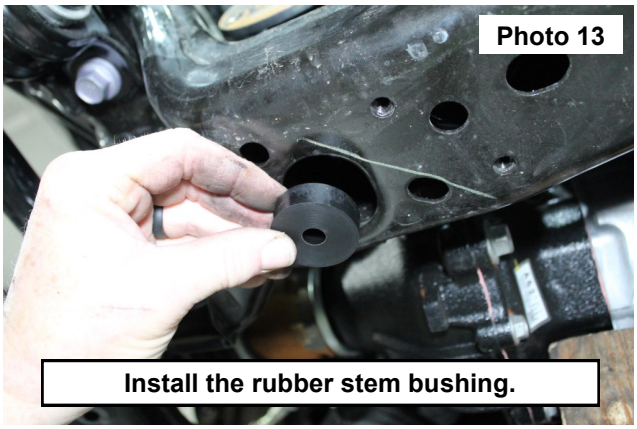


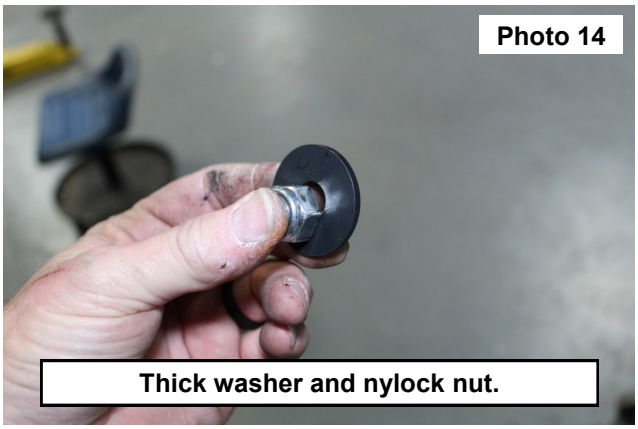
13. Remove the (2) rear diff mount bolts using a 17mm socket. Then remove the bracket. **See Photo 11.**
14. Install the new diff bracket using the supplied hardware. (1) 12mm x 70mm center rear diff bolt, uses (2) 12mm flat washers and (1) 12mm lock nut. (1) sleeve. (1) Flat bracket. 14mm x 60mm diff bolt. And 1) 12mm x 80mm diff bolt, uses (2) 12mm flat washers and (1) 12mm lock nut. Placing (1) rubber stem bushing on the center bolt. Tighten using a 19mm socket. **See Photo 12.**



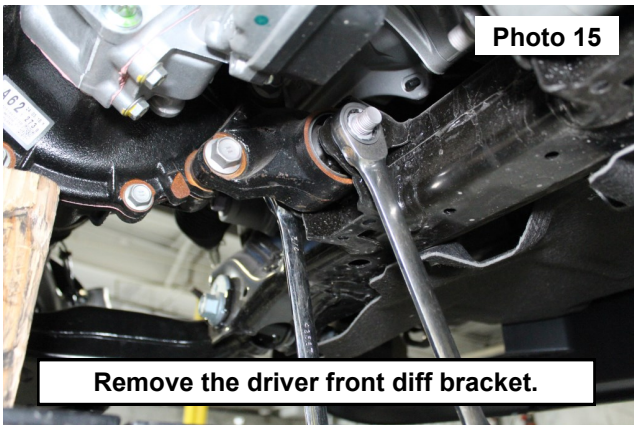


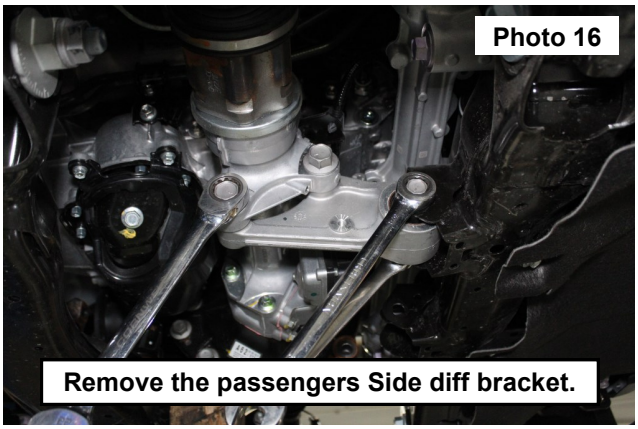
15. Lower the rear diff into the rear crossmember. Secure using (1) thick 12mm washer (1) stem bushing and (1) 12mm nylock nut. **See Photos 13 and 14.**



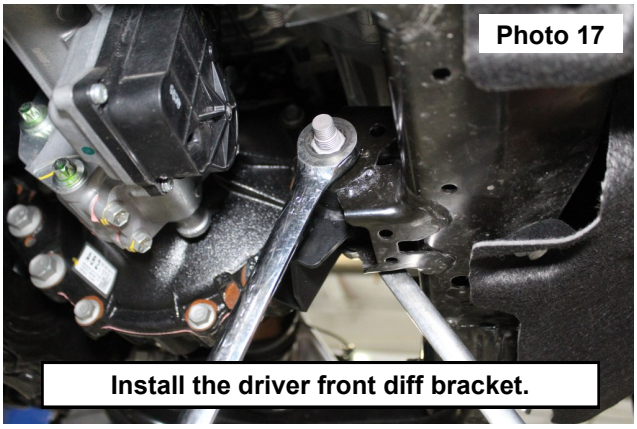


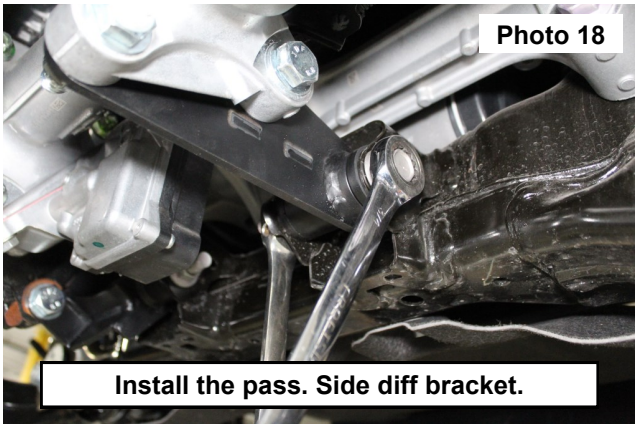
16. Remove the driver and passengers sides front diff brackets. Using 19mm and 22mm wrenches. **See Photo. 15 and 16.**



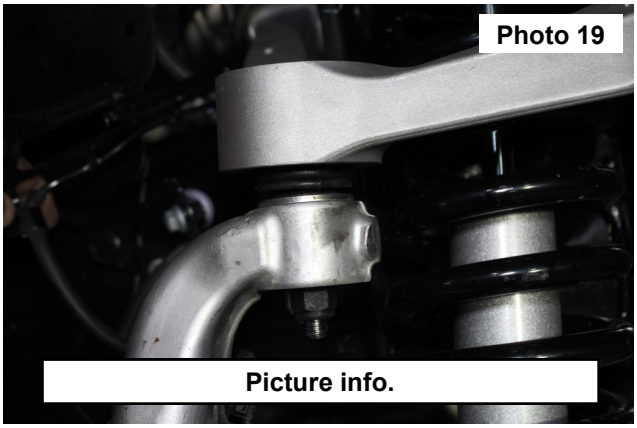


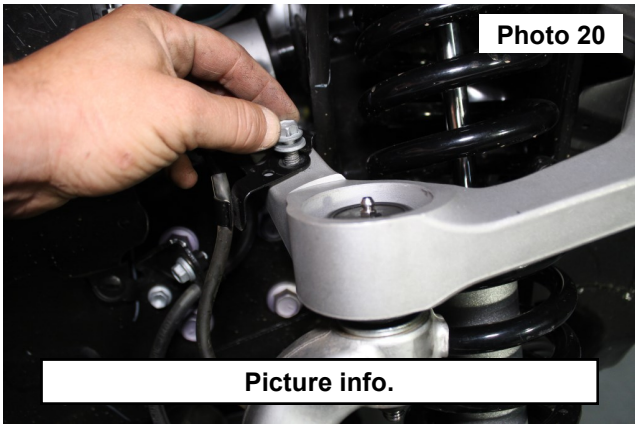
17. Install the bushings and sleeve into the bracket then install the drivers side diff bracket using (1) 16mm bolt (2) washers and (1) 16mm nylock nut. (2) 12mm bolts and (2) 12mm washers. **See Photo 17.**
18. Install the bushings and sleeve into the bracket then install the Passengers side diff bracket using (1) 16mm bolt (2) washers and (1) 16mm nylock nut. (2) 12mm bolts and (2) 12mm washers and (1) 12mm nuts. **See Photo 18.**
19. Tighten using 19 and 22mm wrenches.





20. Connect the upper control arm to the knuckle using the supplied nut. Tighten. **See Photo 19.**
21. Secure the ABS line using the OE bolt to the upper control arm. Tighten. **See Photo 20.**

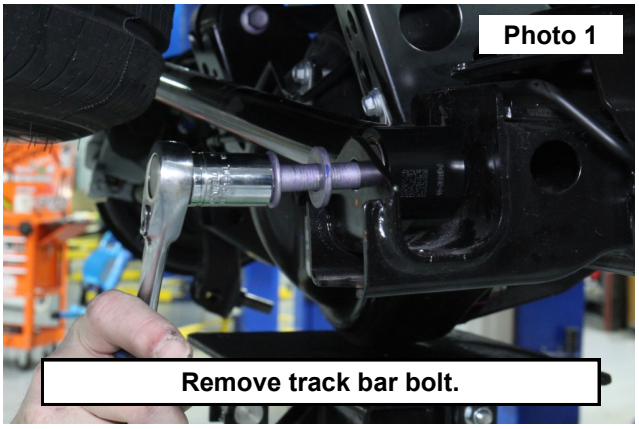


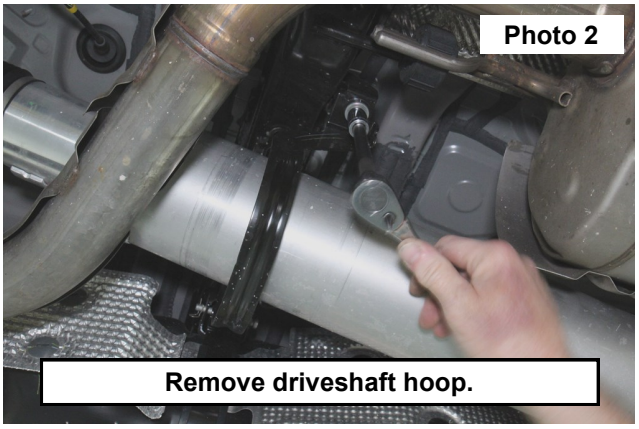


22. Reinstall lower sway bar link with factory hardware once the vehicle is on the ground. Tighten with a 19mm wrench. Torque to 52ft-lbs.
23. Connect the tie rod end. Tighten.
24. Retighten lower control arm bolts with a 24mm wrench. Torque to 100ft-lbs
25. Reinstall wheels and tires and lower vehicle to the ground. Torque to 83ft-lbs

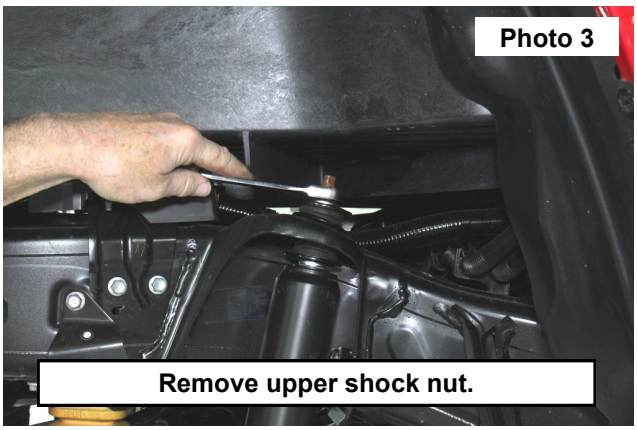
REAR INSTALLATION

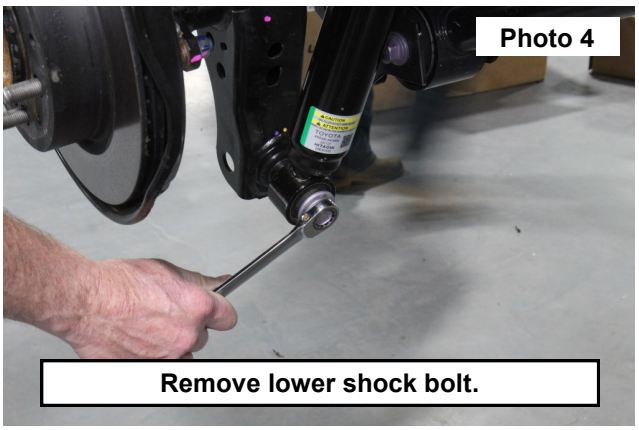
1. Jack up the rear of the vehicle and support the vehicle with jack stands, so that the rear wheels are off the ground
2. Remove the rear tires/wheels using a 21mm deep well socket.
3. Remove the rear track bar bolt with a 19mm socket. Retain hardware for reuse. **See Photo 1.**
4. Use a 14mm socket to remove the rear driveshaft hoop. Retain hardware for reuse. **See Photo 2.**



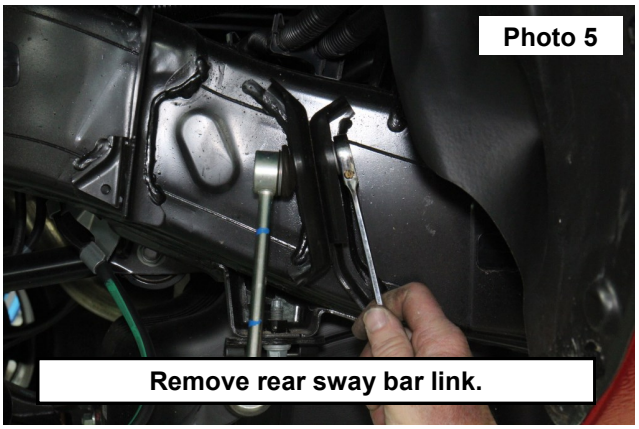


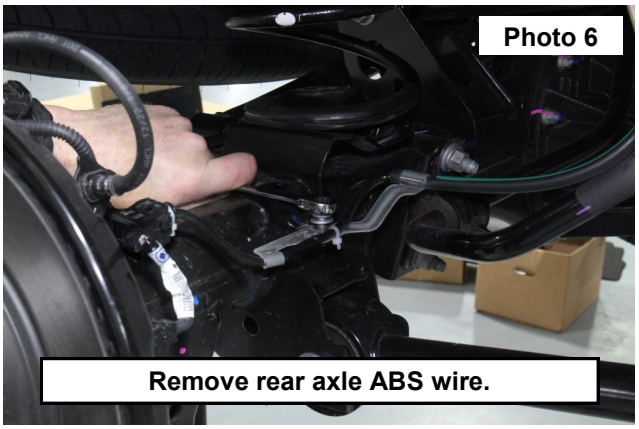
5. Use a pair of pliers to prevent the rear shock from turning. Remove the upper shock nut with a 19mm wrench. **See Photo 3.**
6. Remove the lower shock bolt using a 17mm wrench. **See Photo 4.**



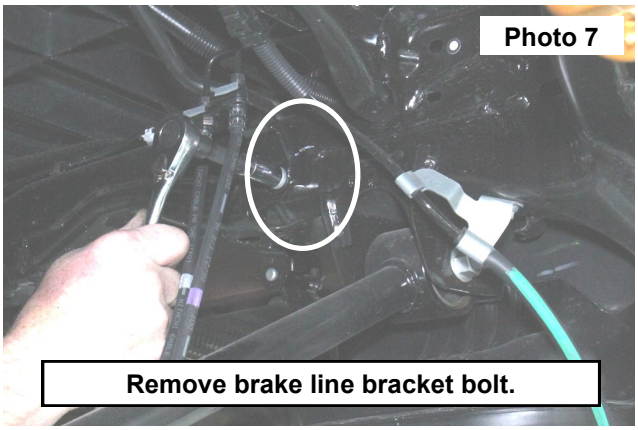


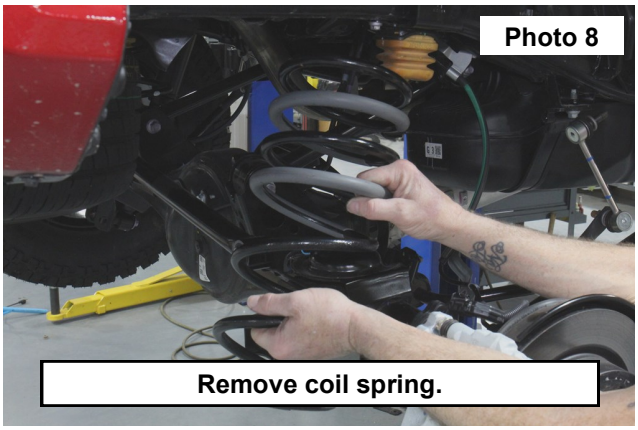
7. Remove rear sway bar link from the frame with a 17mm wrench. Retain hardware for reuse. **See Photo 5.**
8. Remove the ABS wire hardware from the rear axle using a 12mm wrench. Retain hardware for reuse. **See Photo 6.**



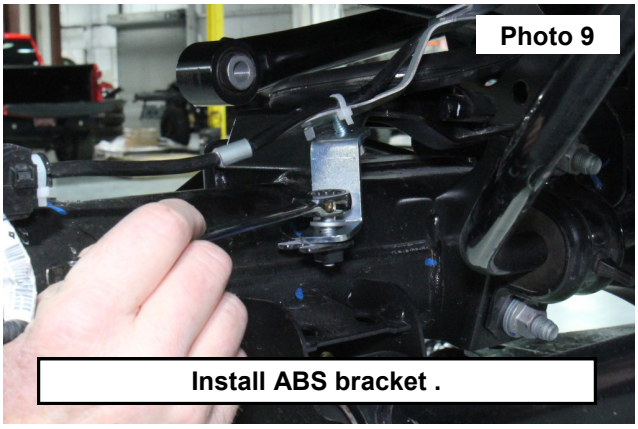


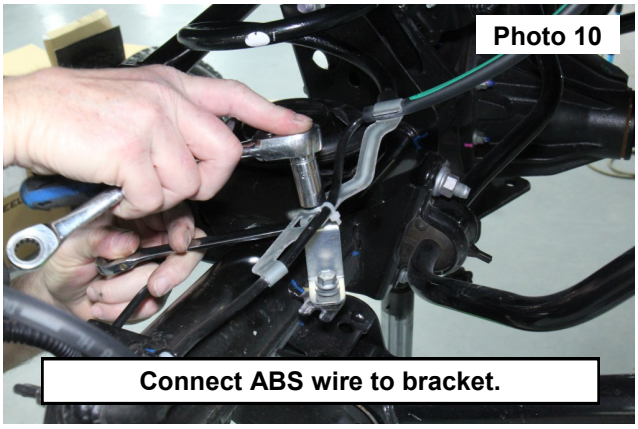
9. Remove the bolt holding the two flexible brake lines to the frame with a 12mm socket. Retain hardware for reuse. **See Photo 7.**
10. Lower the axle and remove the rear coil spring. **See Photo 8.**



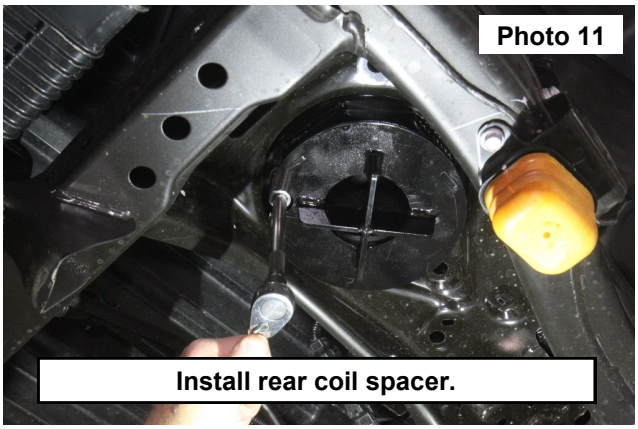


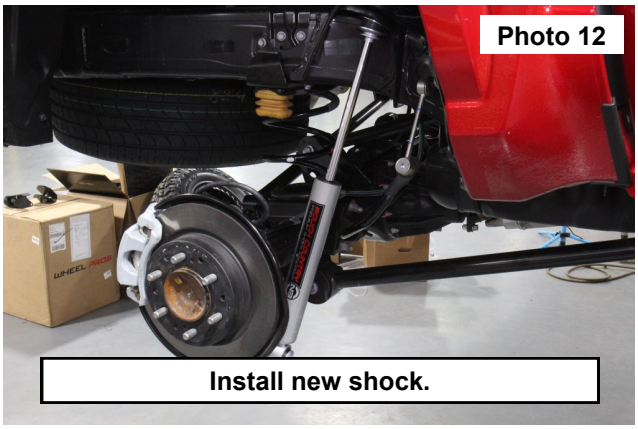
11. Install supplied ABS bracket **(K)** onto the axle using the factory hardware. Tighten with a 12mm wrench. **See Photo 9.**
12. Connect the ABS wire mount to the previously installed ABS bracket using the supplied 5/16” x 3/4” bolt **(AG)**, 5/16” flat washer **(T)**, and 5/16” flange lock nut **(AH)**. Tighten with a 1/2” wrench and socket. Repeat for other side. **See Photo 10.**



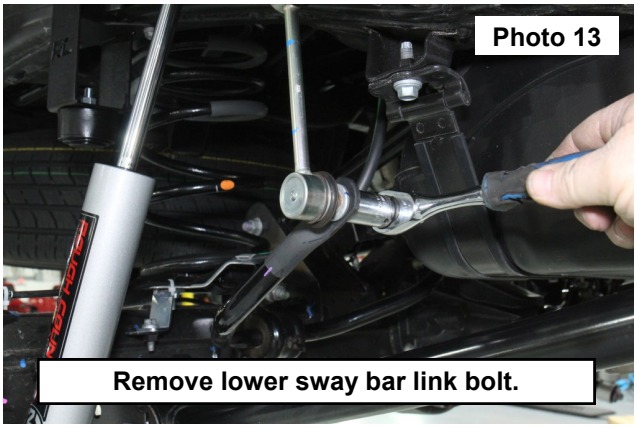


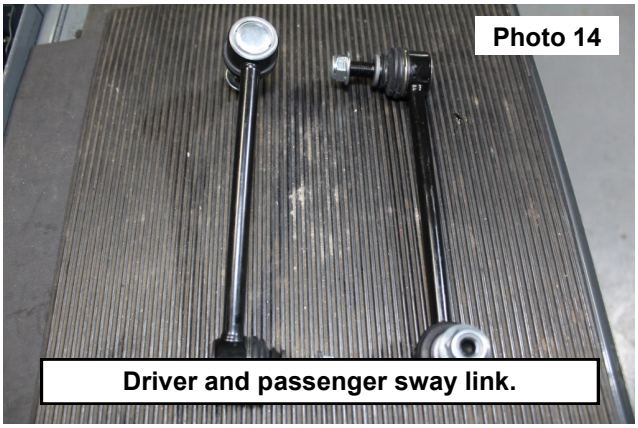
13. Install the supplied 3/8” x 1” bolt **(R)** and 3/8” washer **(S)** into the small hole in the frame where the coil spring was. Align the rear coil spring spacer with the bolt that was previously installed and secure the spacer with the supplied 3/8” flanged lock nut **(U)**. Tighten with a 9/16” wrench and socket. **See Photo 11.**
14. Reinstall factory coil spring.
15. Install the supplied rear shocks using the hardware supplied in the shock box. Use an 18mm wrench to tighten the upper shock bolt and a 17mm wrench to tighten the lower shock bolt. **See Photo 12.**



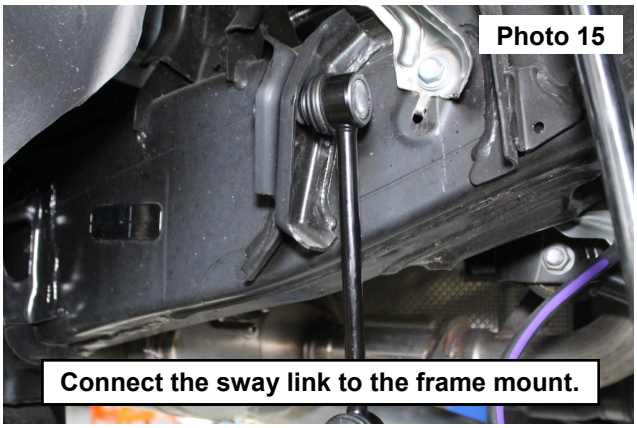


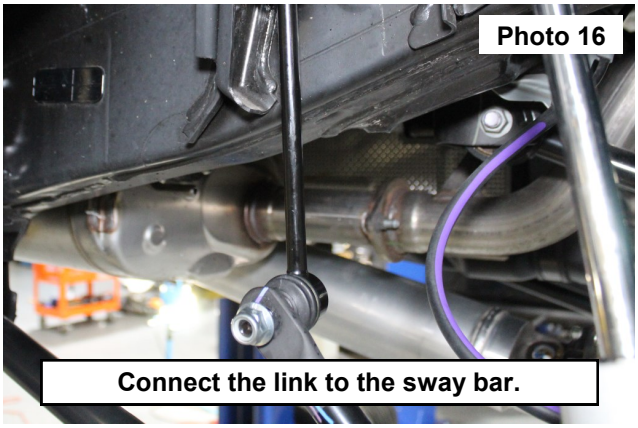
16. Remove lower sway bar link from the rear sway bar using a 17mm socket. Retain hardware for reuse. **See Photo 13.**
17. Locate the new rear Drive and Passenger sway links. **See Photo 14.**



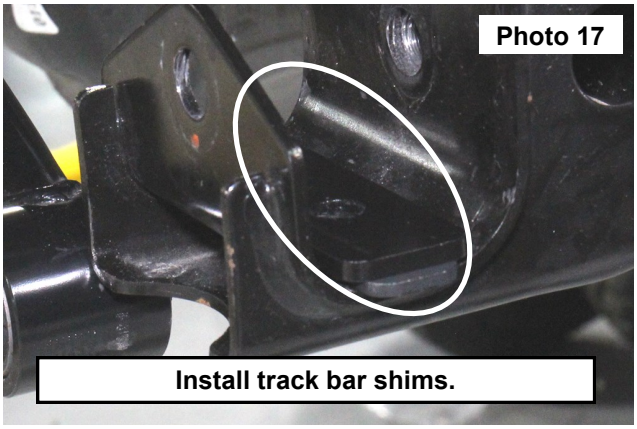


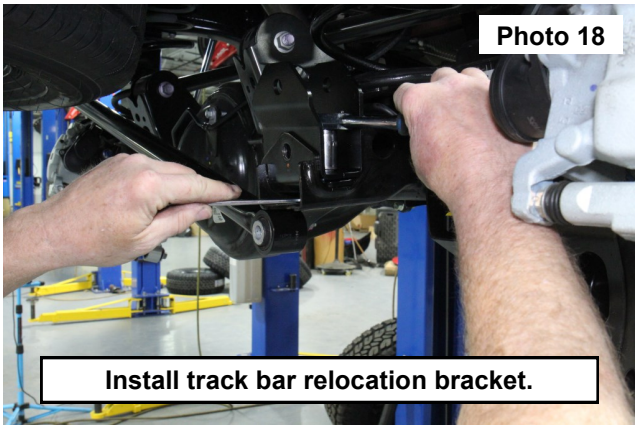
18. Connect sway bar link to the frame using the supplied hardware. Tighten with a 17mm wrench. Torque to 52ft-lbs. **See Photo 15.**
19. Connect sway bar link to the sway bar using the supplied hardware. Tighten with a 17mm wrench. Torque to 52ft-lbs. **See Photo 16.**



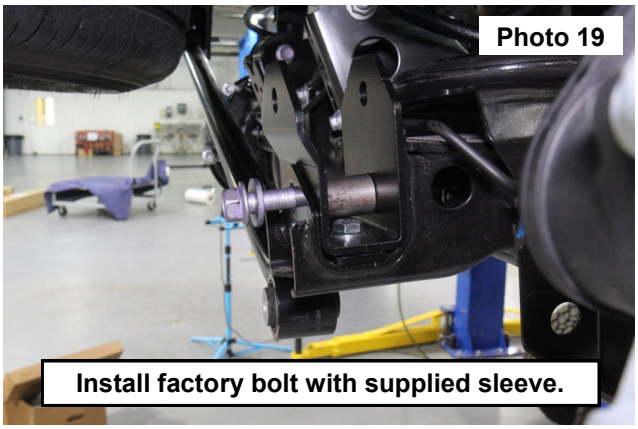


20. Place the two track bar shims in the factory track bar mount. The narrow shim will be placed underneath the wider shim. **See Photo 17.**
21. Place track bar relocation bracket on top of the two shims. Slide supplied 10mm flange nut underneath the bracket. Place supplied 10mm flat washer on top of the relocation bracket. Slide the supplied 10mm x 35mm bolt through the relocation bracket and two shims and tighten the hardware with a 16mm wrench and socket. **See Photo 18.**





22. Install supplied sleeve with the factory track bar bolt in the factory bolt location. Tighten with a 19mm socket. **See Photo 19.**
23. Install the rear track bar into the relocation bracket using the supplied 14mm x 80mm bolt, (2) 9/16” Flat washer and 14mm lock nut. Tighten with a 22mm wrench. **See Photo 20.**





24. Reinstall the factory bolt holding the two flexible brake lines to the frame with a 12mm socket.
25. Reconnect the trailing arm sensor using the factory hardware. Tighten with a 10mm wrench.
26. Reinstall wheels and lower vehicle to the ground. Torque to 83ft-lbs

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