# Installation Instructions

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USA Tech Support 800-507-2338 ext. 114

## PRO-UTV: E85-212-016-03-22

CAN AM MAVERICK X3 MAX RS 4-SEATER

**Notes**

EQUIPPED WITH SHOWA SHOCKS

Stage 3 (EXTRA LOAD)

**Kit Contents**

| Description | Part Number | Quantity |
|---|---|---|
| FRONT SECONDARY SPRING | 1000.300.0300S | 2 |
| FRONT MAIN SPRING | 1600.300.0350S | 2 |
| REAR SECONDARY SPRING | 1000.300.0250S | 2 |
| REAR MAIN SPRING | 1800.300.0400S | 2 |

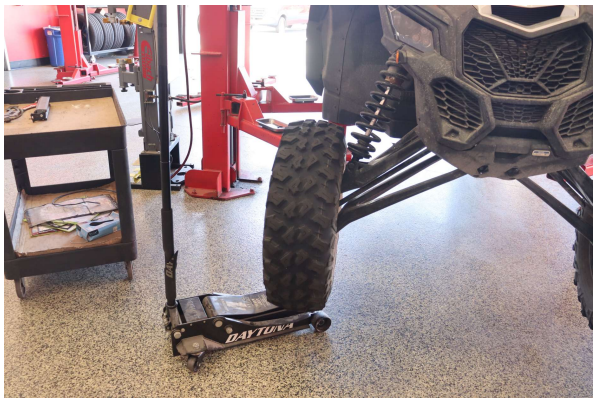
**Installation Notes**

### Read all instructions before beginning installation

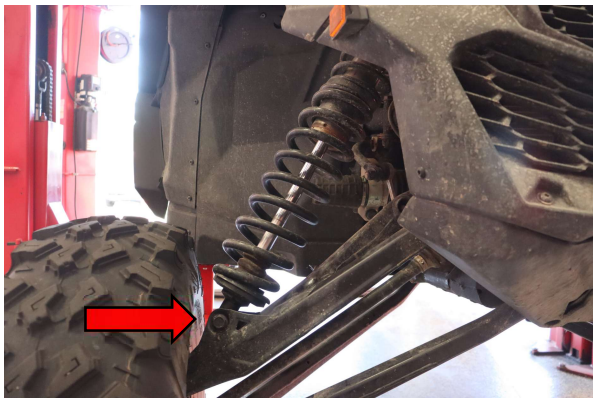
- Only qualified mechanics experienced in the installation and removal of suspension components should perform this installation.
- Use of a hoist and screw jack is highly recommended and will substantially reduce installation time.
- Never work on or under a vehicle unless it is properly supported by safety stands and wheels are blocked.
- Never use impact wrenches or impact guns to install or remove shock absorber piston components, shafts and Piston rod nuts.
- All Eibach springs should be installed with the Eibach logo right-side-up.
- After Installation, inspect and adjust the following: Wheel Alignment; tire/wheel fender clearance when using aftermarket wheels or tires; brake line clearance and attachments; anti-lock-brake system sensors.

# FRONT INSTALLATION

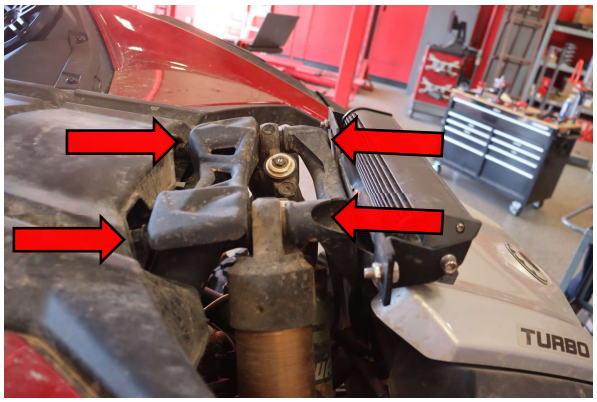
Step 1. Raise the front of the vehicle and support it with the proper safety equipment. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



Step 2. Use floor jack to support weight of wheel and tire.

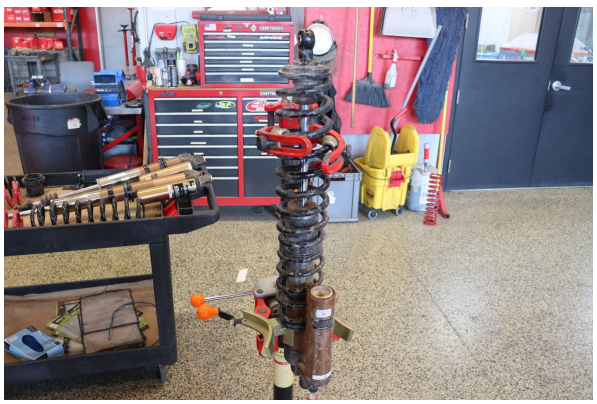


Step 3. Remove 18mm lower shock nut and bolt.




Step 4. Remove 18mm upper shock bolt and nut from both left and right front. (Allows slack in mounting bracket needed to lift shock through hood).

Step 5. Lift shock through the opening in the hood.

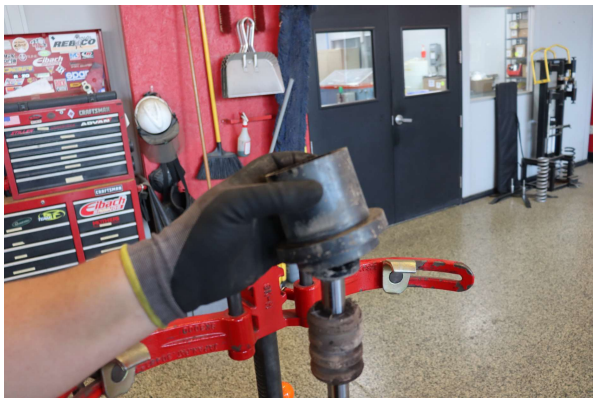


Step 6. Use spring compressor to compress shock assembly.

# FRONT INSTALLATION

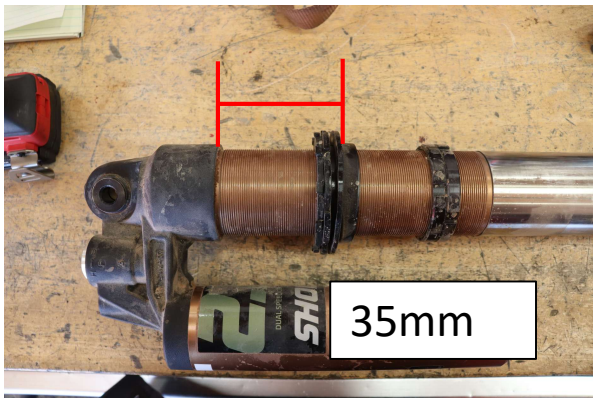
Step 7. Remove the lower spring retainer and decompress the spring.

Step 8. Remove OE front main spring.

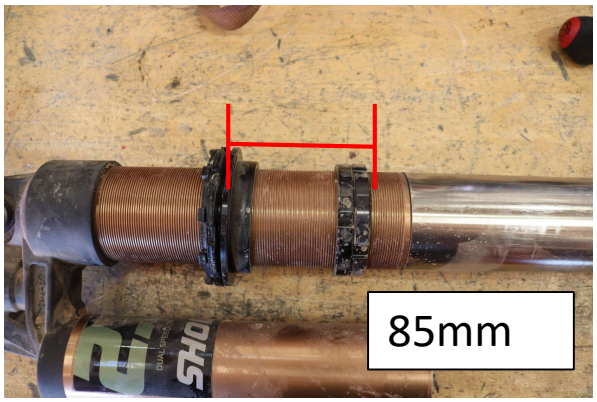


Step 9. Remove OE slider.

Step 10. Remove OE front secondary spring.

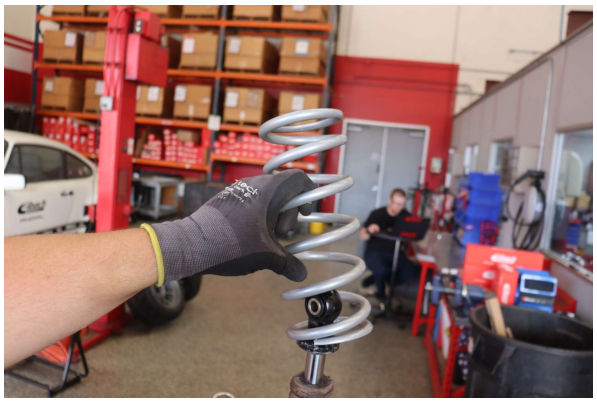



Step 11. Set pre-load spring seat to **35mm (1 3/8in.)** from bottom of seat to bottom of reservoir bridge.

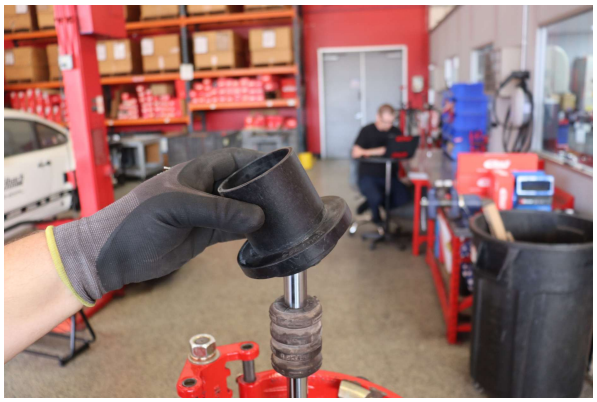



Step 12. Set crossover ring to **85mm (3 3/8in.)** from bottom of spring seat to bottom of crossover ring.

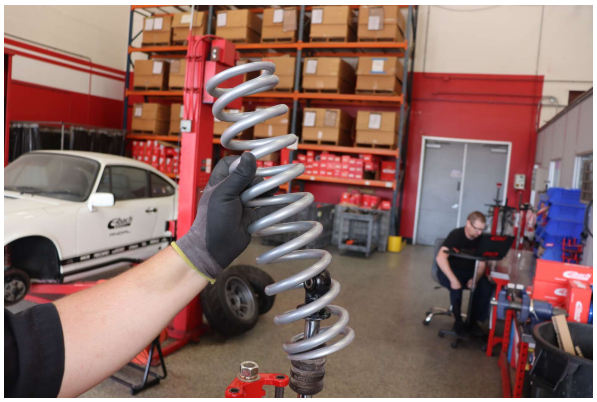
# FRONT INSTALLATION



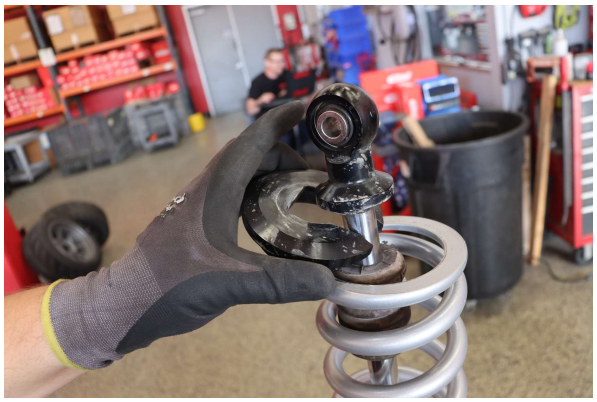
Step 13. Install Eibach front secondary spring.



Step 14. Install OE spring slider with larger face pointed away from secondary spring.

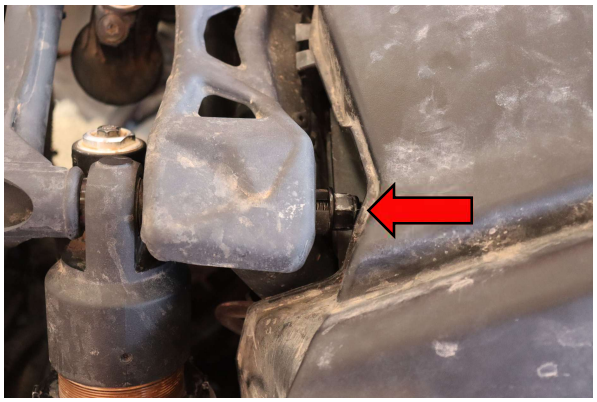


Step 15. Install Eibach front main spring.



Step 16. Compress shock assembly enough to install lower spring retainer. Decompress shock and ensure spring and retainer sit flush on lower mount.

Step 17. Install shock in vehicle through the opening in the hood.



Step 18. Install upper shock bolt and nut. Tighten to manufacturer specification using 18mm socket.

Step 19. Install lower shock bolt and nut. Tighten to manufacturer specifications using a 18mm socket.

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Step 20. Install wheels and tires with lug nuts snug, lower vehicle and torque lug nuts to manufacturer specification. Measure from the ground to the center of the front lower control arm bolt. The recommended preload measurement in **Step 11** will get the vehicle close to the recommended ride height but each vehicle may vary some. As reference, skid plate measurement at recommended preload should be **406mm (16in.)**. We recommend setting the ride height at **480mm (18 7/8in.)** measuring from the ground to the center of the lower control arm bolt. **Note: If you have larger than stock wheels and tires, the ride height will be increased.**

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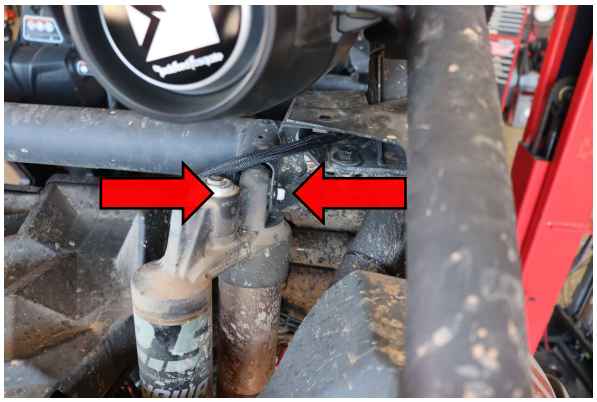
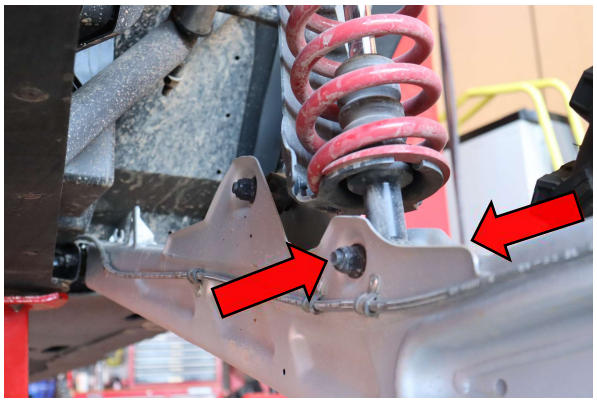
# REAR INSTALLATION

Step 1.  Raise the rear of the vehicle and support it with the proper safety equipment.

Step 2. Support weight of wheel and tire with floor jack.



Step 3. Remove 18mm upper shock mount nut and bolt with 18mm socket and wrench.

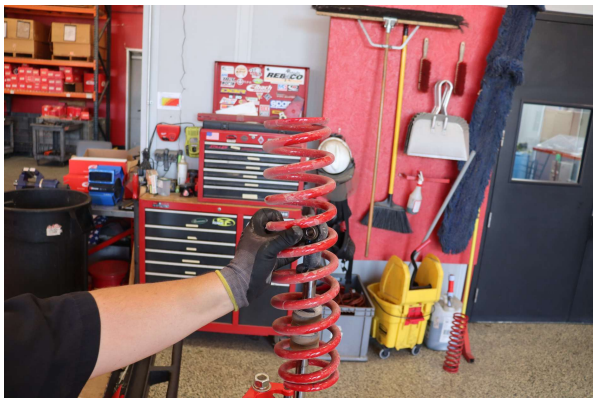


Step 4. Remove 18mm lower shock nut and bolt.

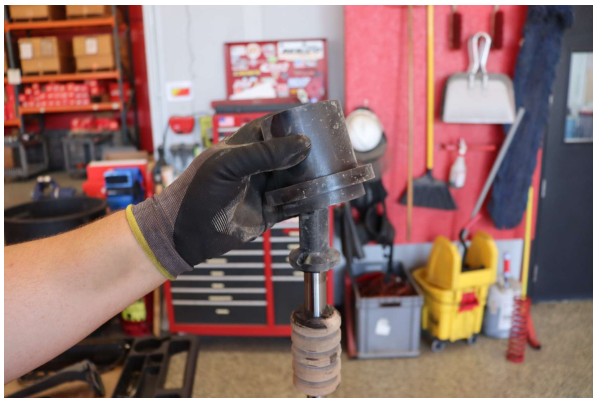
Step 5. Lift and remove the shock assembly from the bottom out.

Step 6. Use a spring compressor to compress spring assembly. Remove lower spring retainer and decompress the spring.

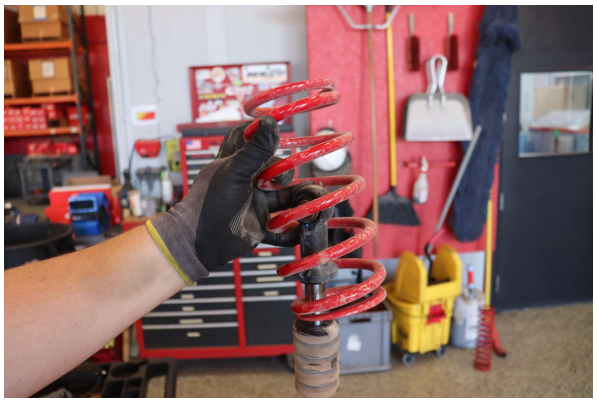
# REAR INSTALLATION



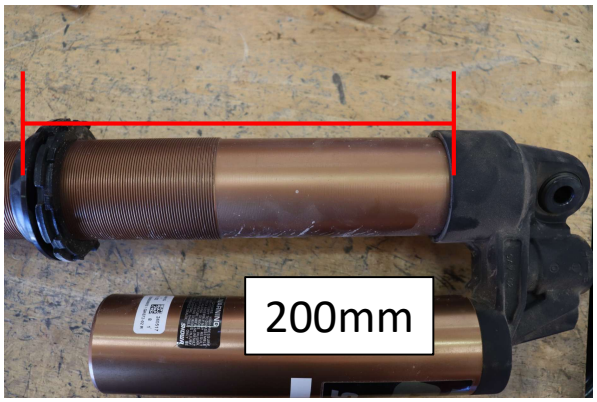
Step 7. Remove OE main spring.



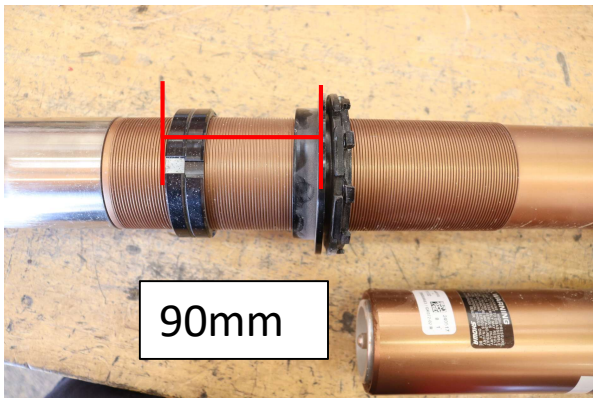
Step 8. Remove OE spring slider.



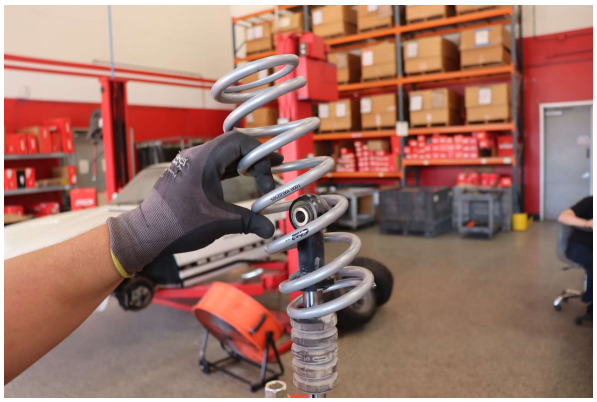
Step 9. Remove OE secondary spring.




Step 10. Set pre-load to **200mm (7 7/8 in.)** from bottom of spring seat to bottom of furthest point on reservoir bridge.

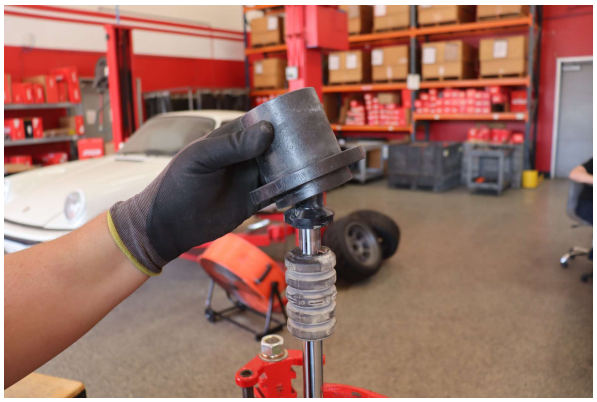



Step 11. Set crossover ring to **90mm (3 9/16in.)** from bottom of spring seat to bottom of crossover ring.



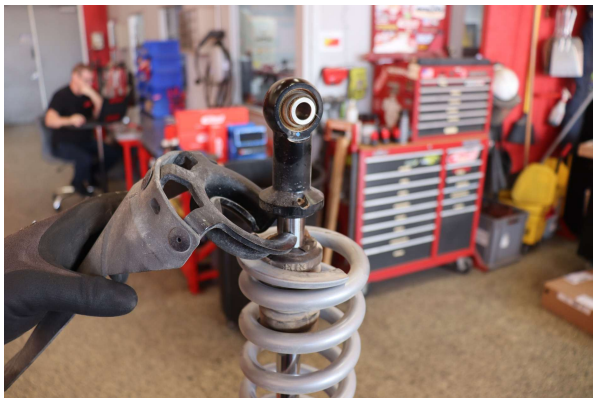
Step 12. Install Eibach secondary spring.

# REAR INSTALLATION

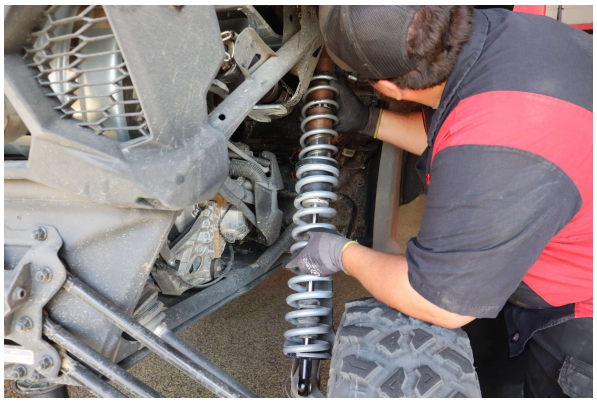


Step 13. Reinstall OE spring slider.

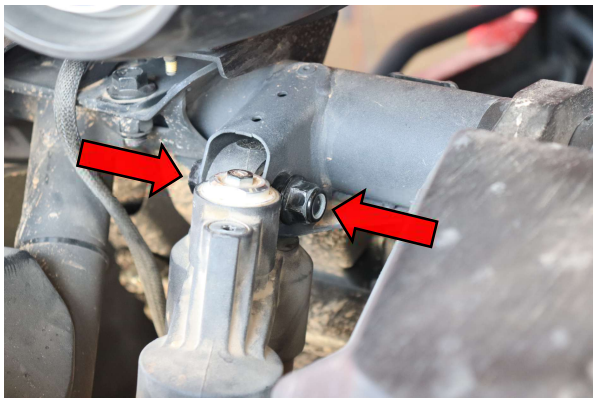
Step 14. Install Eibach main spring.



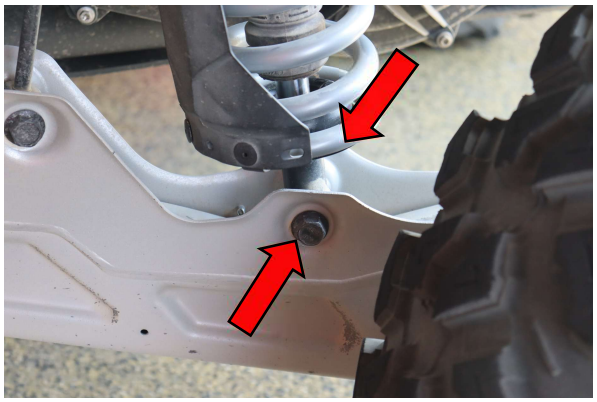
Step 15. Install lower spring retainer. Decompress spring assembly making sure that lower spring retainer and main spring sit flush with lower shock mount.



Step 16. Set shock assembly in vehicle by inserting top of assembly through opening in body panels and setting lower shock mount in trailing arm.

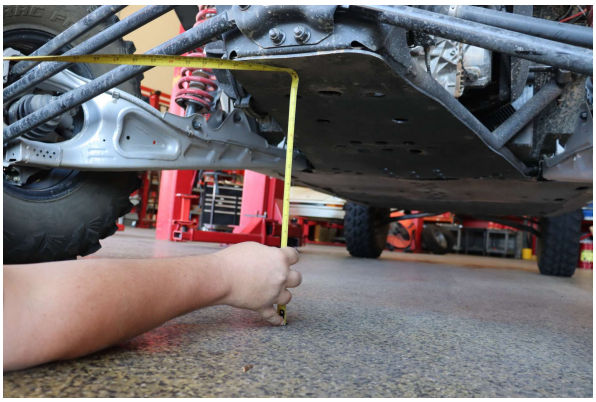


Step 17. Install upper shock mount nut and bolt. Tighten to manufacturer specification using 18mm wrench and socket.



Step 18. Install lower shock mount nut and bolt. Tighten to manufacturer specification using 18mm socket.

# REAR INSTALLATION



Step 19. Measure from the ground to the center of the lower radius arm bolt. The recommended preload measurement in **Step 10** will get the vehicle close to the recommended ride height but each vehicle may vary some. As reference, skid plate measurement at recommended preload should be 406**mm (16in**.). We recommend setting the ride height at **490mm (19 5/16 in.)** measuring from the ground to the center of the lower radius arm bolt. **Note: If you have larger than stock wheels and tires, the ride height will be increased. Due to the sensitivity of weight of these vehicles, weight distribution may change ride heights, additional pre-load may need to be added to compensate.**