

# Installation Instructions

Eibach Inc. 264 Mariah Circle Corona, CA 92879  
USA Tech Support 800-507-2338 ext. 114



## PRO-UTV: E85-212-012-03-22

CAN AM MAVERICK R W/ SMART SHOX

### Notes

EQUIPPED WITH FOX LIVE VALVE SHOCKS

### Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	0800.300.0300S	2
FRONT MAIN SPRING	1800.300.0400S	2
REAR SECONDARY SPRING	1200.375.0200S	2
REAR MAIN SPRING	2000.375.0350S	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. Remove lower shock electrical connector at frame.



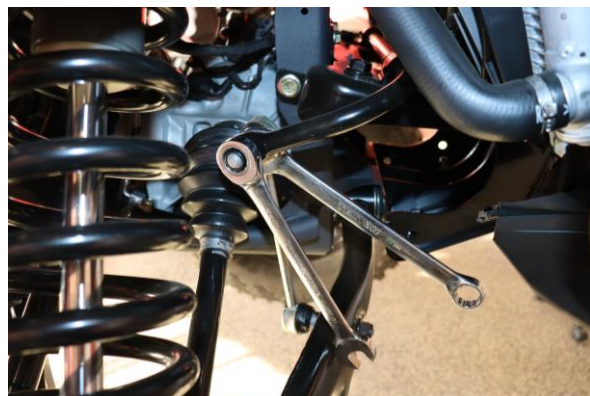
Step 3. Remove lower shock wiring harness from retaining clips along the brake line.



Step 4. Disconnect upper shock wiring harness at shock body.

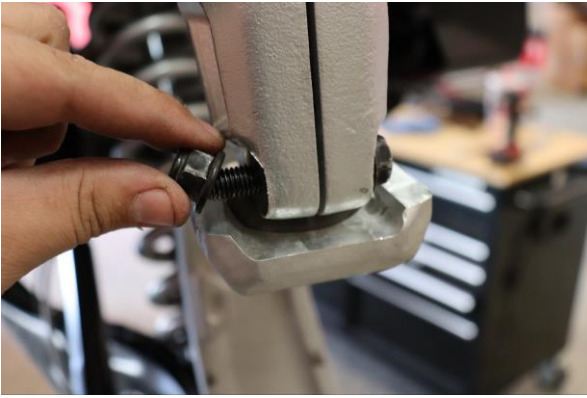


Step 5. Secure the spindle to the frame to prevent damage to the axle CV joints.



Step 6. Use 19mm wrench and 18mm socket to remove left and right sway bar end links.

## FRONT INSTALLATION



Step 7. Remove 15mm bolt and nut at upper control arm ball joint.



Step 8. Remove 21mm lower shock nut and bolt.



Step 9. Remove the 21mm nut and bolt from the upper shock mount. Move upper control arm up and carefully move spindle to the side.



Step 10. Remove shock assembly from vehicle between upper and lower control arms.



Step 11. Remove both 4mm allen head screws securing wire harness to lower shock mount. Remove wire harness from mount.



Step 12. Use spring compressor to compress shock assembly.

# FRONT INSTALLATION



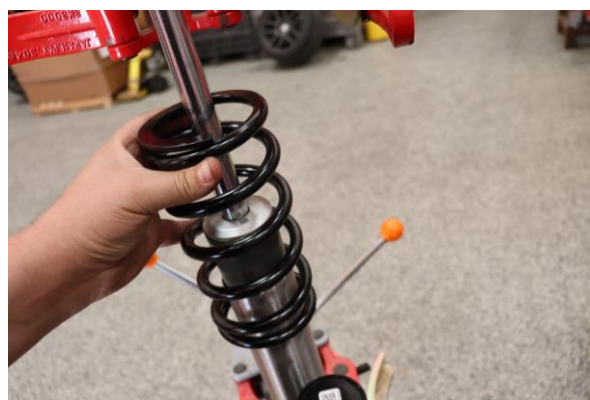
Step 12. Remove the spring retainer.



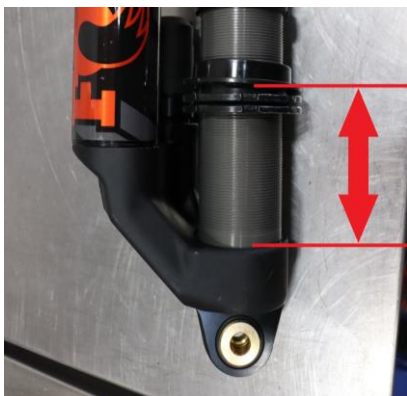
Step 13. Remove OE main spring.



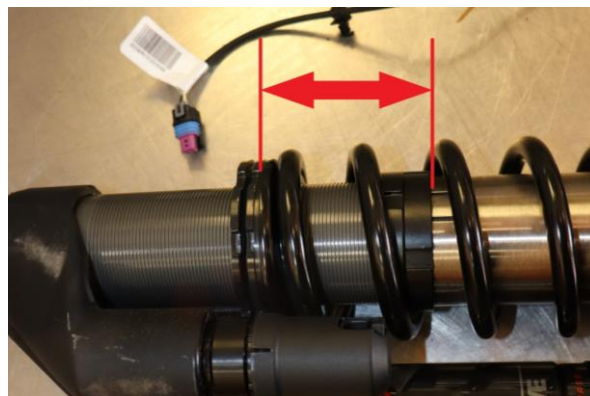
Step 14. Remove spring slider.



Step 15. Remove OE secondary spring.

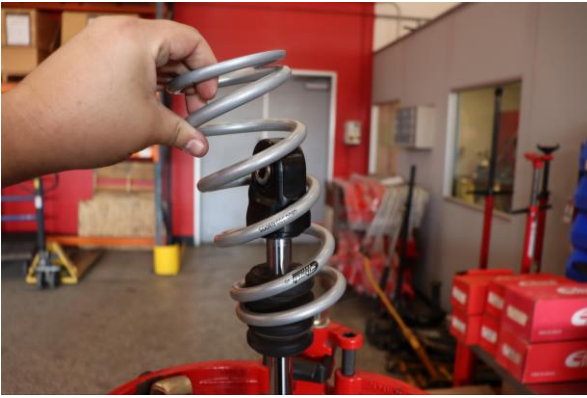


Step 16. Set pre-load spring seat to **75mm (2 15/16in.)** from bottom of seat to bottom of reservoir bridge.



Step 17. Set crossover ring to **70mm (2 3/4in.)** from bottom of spring seat to bottom of crossover ring.

## FRONT INSTALLATION



Step 18. Install Eibach secondary spring.



Step 19. Install OE spring slider with larger face pointed away from secondary spring.



Step 20. Install Eibach main spring.



Step 21. Compress shock assembly enough to install lower spring retainer. Decompress shock and ensure spring and retainer sit flush on lower mount.



Step 22. Install lower shock wire harness in lower shock mount using both 4mm allen head screws. Tighten to manufacturer specification.



Step 23. Install shock in vehicle using upper mount bolt to hold assembly in place.

## FRONT INSTALLATION



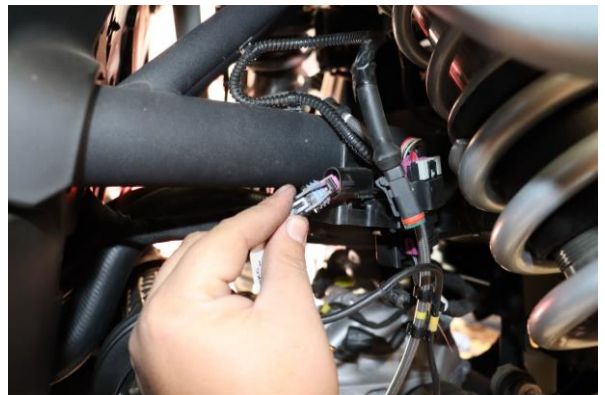
Step 24. Install upper shock mount nut and tighten to manufacturer specification using 21mm socket and wrench.



Step 24. Install lower shock bolt and tighten to manufacturer specification using 21mm socket and wrench.



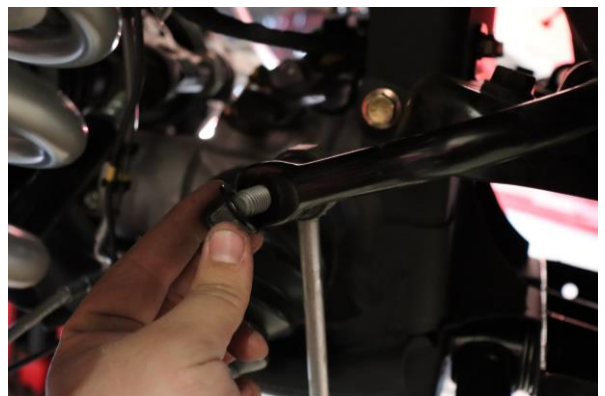
Step 25. Lower the upper control arm onto the upper ball joint and install retaining bolt. Use two 15mm sockets tighten to manufacturer specification.



Step 26. Route the lower shock wire harness along brake line clips and connect at frame.



Step 27. Install the upper shock wire harness at the shock assembly.



Step 28. Install sway bar end link and tighten to manufacturer specification using 19mm wrench and 18mm socket.

## FRONT INSTALLATION



Step 29. 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 16** will get the vehicle close to the recommended ride height but each vehicle may vary some. As reference, shock eye to eye measurement at recommended preload should be **771mm (30 11/32in.)**. We recommend setting the ride height at **506mm (19 29/32in.)** 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. Remove wheel and tire. Secure trailing arm to frame using strap. **Note:** Never work on or under a vehicle that is not supported by the proper safety equipment.



Step 2. Remove 10mm nut and T30 bolt from ride height sensor arm at front of lower trailing arm.



Step 3. Remove lower shock wire harness from clips along lower trailing arm.



Step 4. Disconnect lower shock wire harness at front of trailing arm.



Step 5. Disconnect upper shock wire harness at shock assembly.



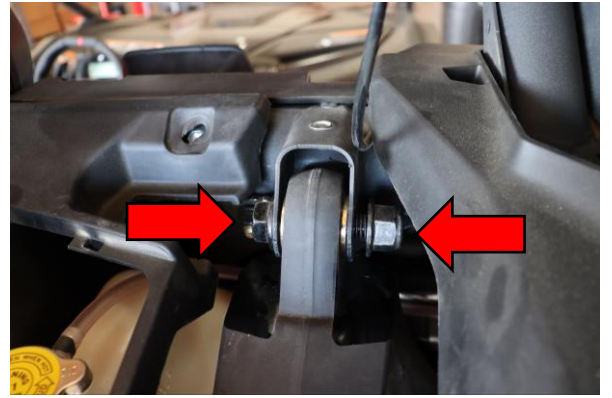
Step 6. Remove T30 screw from rear deck panel near upper shock mount.



## REAR INSTALLATION



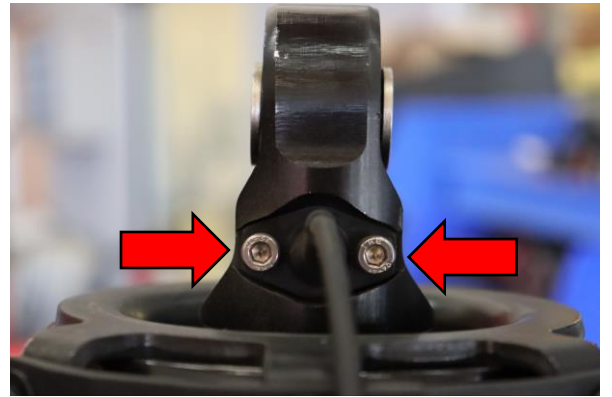
Step 7. Remove 21mm lower shock nut and bolt. (This bolt from the manufacturer has a yellow Loctite that may require a large breaker bar to remove).



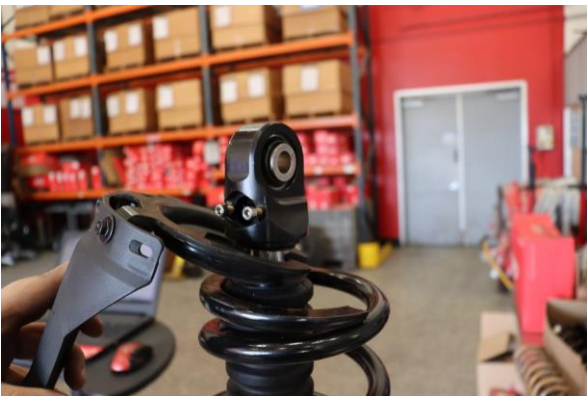
Step 8. Remove 21mm upper shock mount nut and bolt. (To remove bolt gently lift plastic trim panel to allow clearance for head of the bolt).



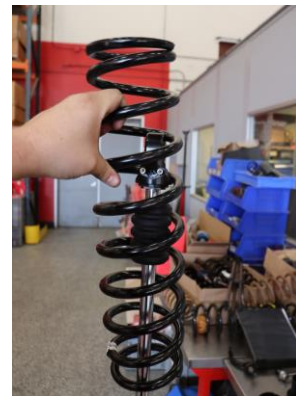
Step 9. Rotate the top of the shock assembly to the rear of the vehicle enough to clear the mount. Lift assembly from the bottom to clear the rear trailing arm and remove shock assembly from the vehicle.



Step 10. Remove both 4mm allen head screws and disconnect lower shock wire harness.



Step 11. Use a spring compressor to compress spring assembly. Remove lower spring retainer.



Step 12. Remove OE main spring.

## REAR INSTALLATION



Step 13. Remove spring slider.



Step 14. Remove tender spring.



Step 15. Set pre-load to **215mm (8 15/32in.)** from bottom of spring seat to bottom of furthest point on reservoir bridge. (Reservoir bridge is not flat relative to spring seat. Be sure to measure from the side opposite the reservoir).



Step 16. Set crossover ring to **90mm (3 17/32in.)** from bottom of spring seat to bottom of crossover ring.



Step 17. Install Eibach secondary spring.



Step 18. Reinstall OE spring slider.

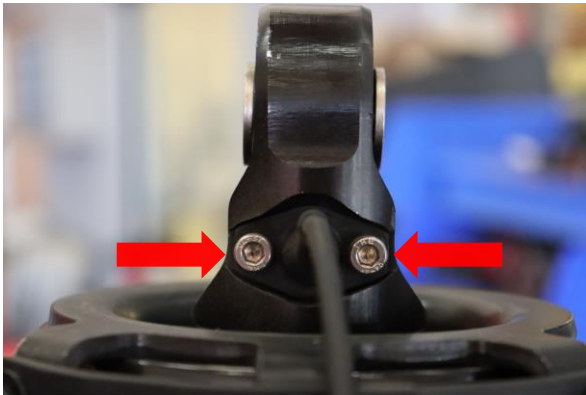
## REAR INSTALLATION



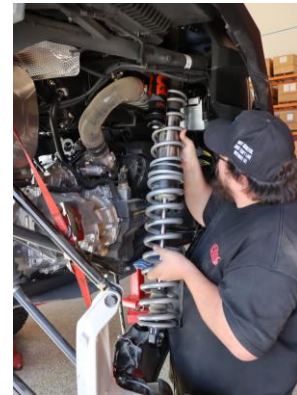
Step 19. Install Eibach main spring.



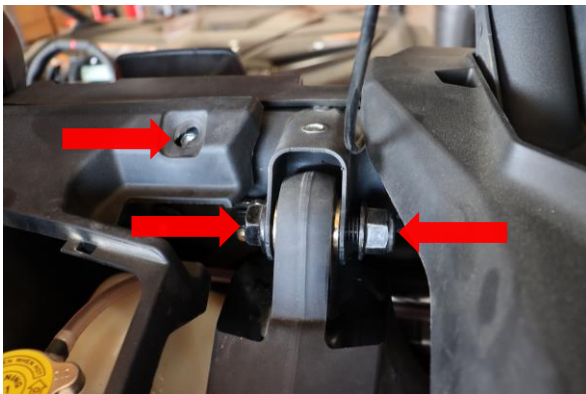
Step 20. Install lower spring retainer. Decompress spring assembly making sure that lower spring retainer and main spring sit flush with lower shock mount.



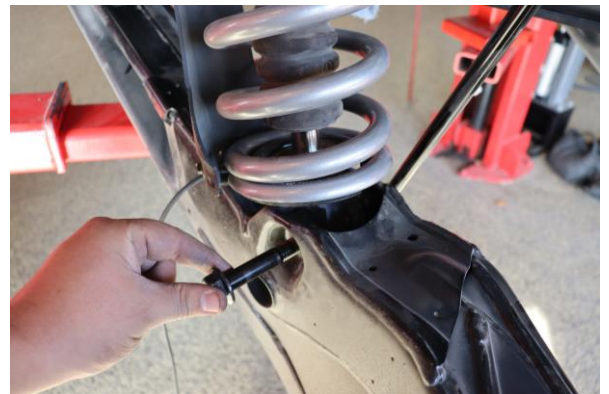
Step 21. Install lower shock wire harness using both 4mm allen head screws. Tighten to manufacturer specification.



Step 22. Set shock assembly in vehicle by inserting top of assembly through opening in body panels and setting lower shock mount in trailing arm.



Step 23. Install upper shock mount nut and bolt. Tighten to manufacturer specification using 21mm wrench and socket. Install T30 bolt from step 6 and tighten to manufacturer specification.



Step 24. Install lower shock mount nut and bolt. Tighten to manufacturer specification using 2 21mm sockets.

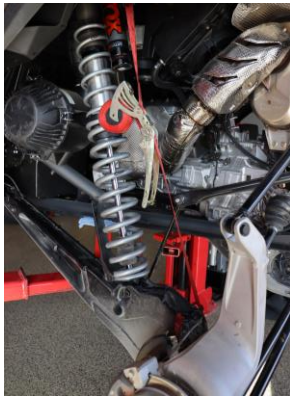
## REAR INSTALLATION



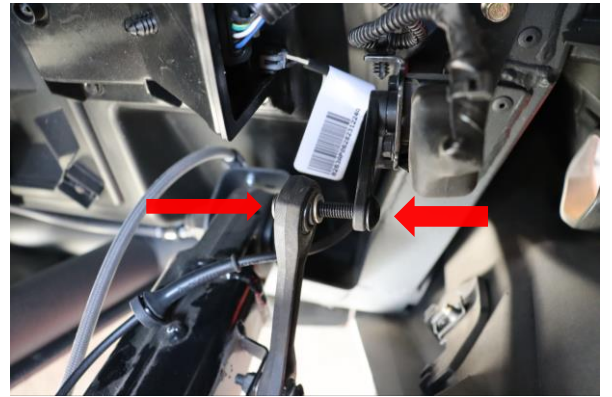
Step 25. Connect the upper shock wire harness at the shock assembly.



Step 26. Connect the lower shock wire harness and route through clips along lower trailing arm.



Step 27. Remove strap securing trailing arm to frame.



Step 28. Install ride height sensor arm at front of lower trailing arm using T30 bolt and 10mm nut. Tighten to manufacturer specification.



Step 29. Install wheels and tires with lug nuts snug, lower vehicle and torque lug nuts to manufacturer specification.

## REAR INSTALLATION



Step 30. Measure from the ground to the center of the lower radius arm bolt. The recommended preload measurement in **Step 15** will get the vehicle close to the recommended ride height but each vehicle may vary some. As reference, shock eye to eye measurement at recommended preload should be **996mm (39 7/32in.)**. We recommend setting the ride height at **513mm (20 3/16in.)** measuring from the ground to the center of the lower radius arm bolt. **Note: Measurements are with 200lbs in the bed. 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.**

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Note: The shocks will be locked out and remain in full extension when the key is off. Cycle the key on and scrub the vehicle before measuring for front and rear static heights. The Eibach PRO-UTV kit is useable with all suspension modes.