

Installation Instructions

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PRO-UTV: E85-212-010-02-22

CAN-AM MAVERICK X3 X RS TURBO RR W/ SMART SHOX

Notes

For vehicles equipped with Fox Smart Shox.

Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	0800.300.0250S	2
FRONT MAIN SPRING	1600.300.0250S	2
REAR SECONDARY SPRING	1200.375.0200S	2
REAR MAIN SPRING	2000.375.0300S	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. Loosen and remove the hardware that secures the coilover to the control arm. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



Step 2. Loosen top hardware, but leave bolt in for now.



Step 3. Swing bottom of the shock out of the mounting clevis on lower control arm, remove two allen screws and pull electrical connector out of the bottom of the shock. **Note: Be careful not to get dust/dirt inside of the electrical connector.**



Step 4. Remove bolt from upper mount and remove coilover.



Step 5. Compress the coilover and remove the spring retainer. **Note: The bump stop will need to be pried down, out of the way of the spring retainer.**



Step 6. Remove OE main spring.

FRONT INSTALLATION



Step 7. Remove OE slider.



Step 8. Remove OE secondary spring.



Step 9. Set the preload collar to **85mm** measuring from the base of the reservoir housing to the spring flange.



Step 10. Install the cross-over rings and set them at **55mm** measuring from the spring flange to the bottom of the crossover ring.



Step 11. Install the Eibach secondary spring.



Step 12. Install the OE spring slider.

FRONT INSTALLATION



Step 13. Install the Eibach main spring.



Step 14. Compress spring assembly and re-install spring retainer.



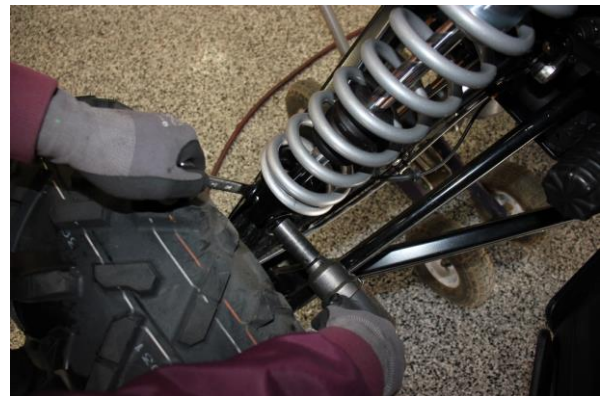
Step 15. Re-install the coilover.



Step 16. Secure the coilover to the upper mount with the OE hardware, leaving loose for now.



Step 17. Carefully plug the electrical connector back in at the bottom of the coilover, secure with OE allen screws. **Note: There is a locator pin on the connector, ensure it is clocked properly. Do not over tighten connector.**



Step 18. Secure the coilover to the control arm with the OE hardware. Tighten the upper mount hardware.

FRONT INSTALLATION



Step 19. Measure from the ground to the center of the lower control arm bolt. The recommended preload measurement in **Step 9** will get the vehicle close to the recommended ride height but each vehicle may vary some. We recommend setting the ride height at **440mm** 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.**

REAR INSTALLATION



Step 1. Raise the rear of the vehicle and support it with the proper safety equipment. Loosen and remove the hardware that secures the coilover to the control arm. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



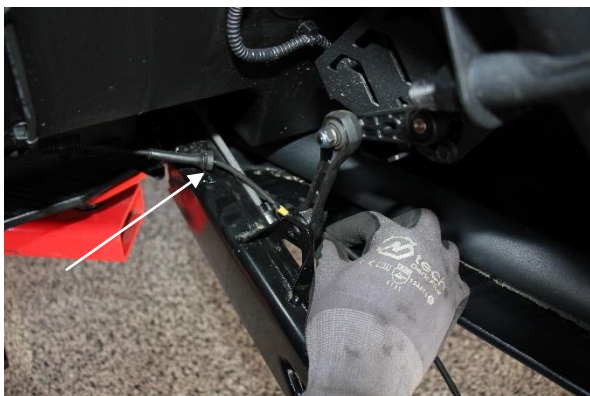
Step 2. Loosen hardware on the top mount, but do not remove the bolt.



Step 3. Remove the 4 socket head cap screws fastening the resi to the cage. Place the resi in the bed.



Step 4. Remove electrical wire from arm hold down to give enough slack to remove connector.



Step 5. Remove electrical wire from arm hold down to give enough slack to remove connector.



Step 6. Swing bottom of the shock out of the mounting clevis on lower control arm, remove two allen screws and pull electrical connector out of the bottom of the shock. **Note: Be careful not to get dust/dirt inside of the electrical connector. Do not stretch wire as damage can occur.**

REAR INSTALLATION



Step 7. Remove the bolt on the upper mount and remove the coilover.



Step 8. Compress the OE spring assembly and remove the spring retainer. **Note: The bump stop will need to be pried down, out of the way of the spring retainer.**



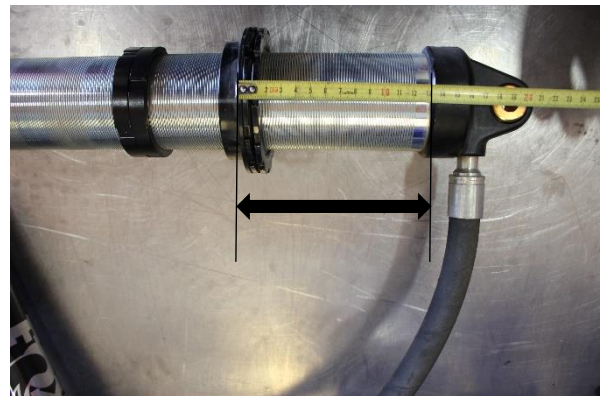
Step 9. Remove OE main spring.



Step 10. Remove OE spring slider.

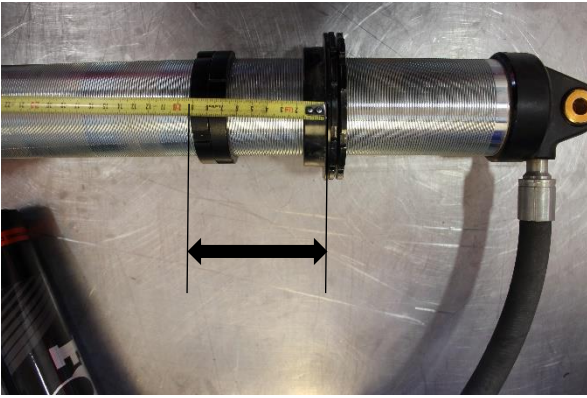


Step 11. Remove OE secondary spring.



Step 12. Set the preload collar to **130mm** measuring from the base of the reservoir housing to the spring flange.

REAR INSTALLATION



Step 13. Install the cross-over rings and set them at **95mm** measuring from the spring flange to the bottom of the crossover ring.



Step 14. Install the Eibach secondary spring.



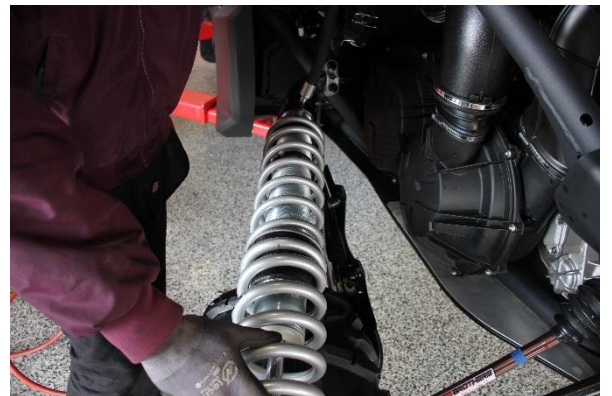
Step 15. Install the OE spring slider.



Step 16. Install the Eibach main spring.



Step 17. Compress spring assembly and re-install spring retainer. **Note: The spring seat is shaped to locate and go on only one way, ensure it is installed with the flat on the seat lined up with the flat on the rod end.**

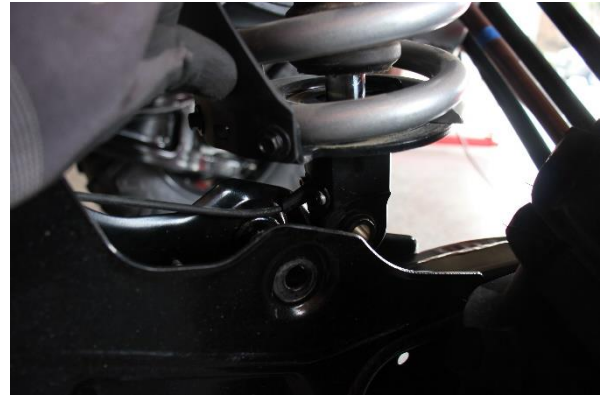


Step 18. Re-install the coilover. Carefully feed the resi/resi hose through the hole in the bed. Lay resi on the bed.

REAR INSTALLATION



Step 19. Insert the bolt in the top mount, leave loose for now.



Step 20. Carefully plug the electrical connector back in at the bottom of the coilover, secure with OE allen screws. **Note: There is a locator pin on the connector, ensure it is clocked properly. Do not over tighten connector.**



Step 21. Secure the wire to all mounting locations on the control arm.



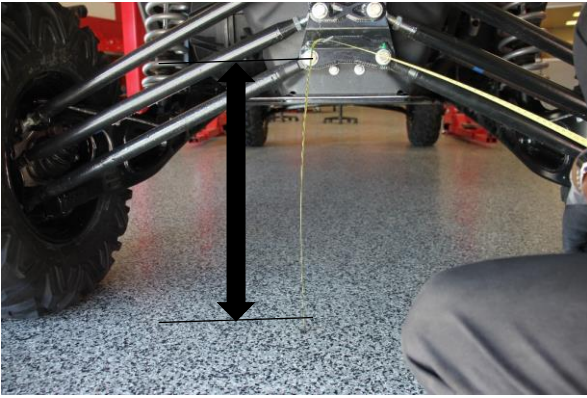
Step 22. Secure the coilover to the control arm with the OE hardware. Tighten upper mount hardware.



Step 23. Re-install resi one cage, fastened by the 4 socket head cap screws.

See next page for ride height.

REAR INSTALLATION



Step 24. Measure from the ground to the center of the lower radius arm bolt. The recommended preload measurement in **Step 12** will get the vehicle close to the recommended ride height but each vehicle may vary some. We recommend setting the ride height at **455mm** 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. 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.**

Note: The Eibach PRO-UTV kit is useable with all suspension modes.