Installation Instructions

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

PRO-UTV: E85-209-041-03-22

Polaris RZR PRO XP 4 Base/Sport/Premium

Notes

STAGE 3 (EXTRA LOAD) 150 lbs in bed, 50 lbs in passenger compartment

Fits vehicles equipped with Walker Evans Shocks

Ride heights based on the OE 30" tire

Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	1000.300.0300S	2
FRONT MAIN SPRING	1200.300.0400S	2
REAR SECONDARY SPRING	1200.300.0250S	2
REAR MAIN SPRING	1800.300.0350S	2
FRONT SLIDER	8001100	2
REAR SLIDER	8001498	2

Installation Notes

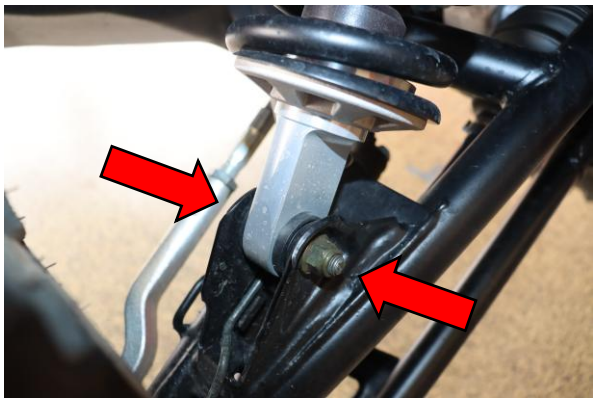
Read all instructions before beginning installation

- 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.

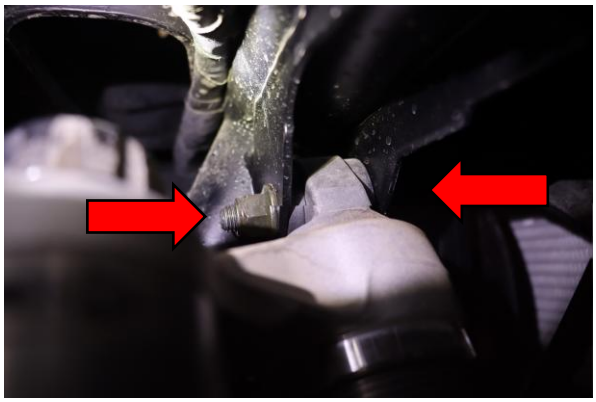
FRONT INSTALLATION

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 a strap or jack to hold the suspension to prevent damage to axles.



Step 3. Remove lower shock hardware using a (15mm) wrench and socket



Step 4. Remove the upper shock hardware using a (15mm) wrench and socket.

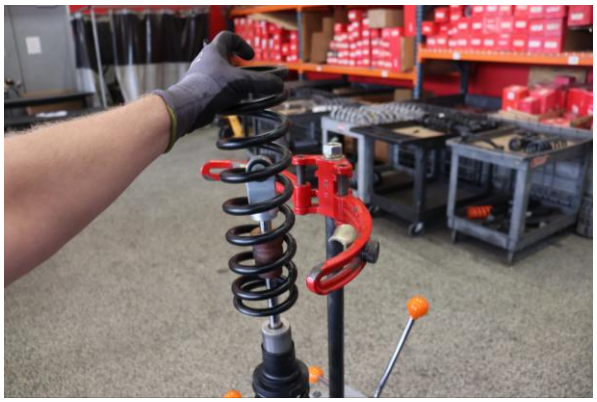
Step 5. Remove the shock for lower mount and then lower shock till it clears the plastic and remove shock upwards.

Step 6. Use spring compressor to compress shock assembly.

FRONT INSTALLATION

Step 7. Using a screwdriver or prybar push the bump stop away from the lower spring perch.

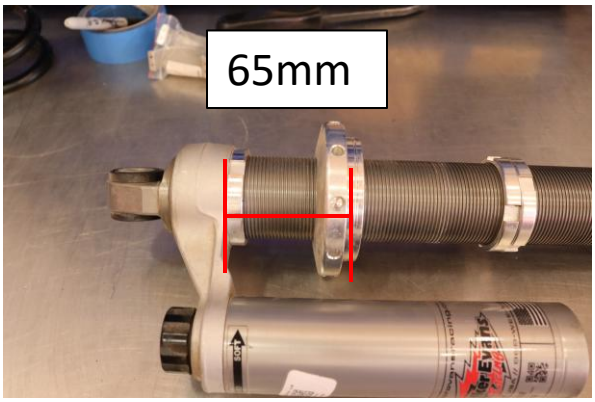
Step 8. Remove the lower spring perch.



Step 9. Remove OE main spring.

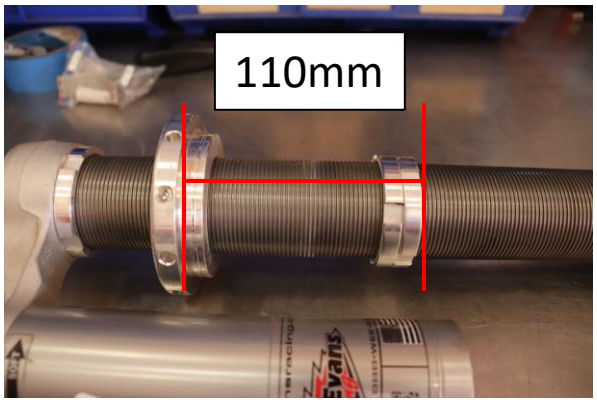
Step 10. Remove OE slider.

Step 11. Remove OE secondary spring.



Step 12. Set the preload collar to **65mm (2 9/16")** measuring from the base of the reservoir housing to the spring flange.

FRONT INSTALLATION



Step 13. Adjust the OE crossover rings to **110mm (4 5/16")** measured from the preload collar to the bottom crossover rings as shown.

Step 14. Install Eibach secondary spring.

Step 15. Install Eibach spring slider with larger face pointed away from secondary spring.

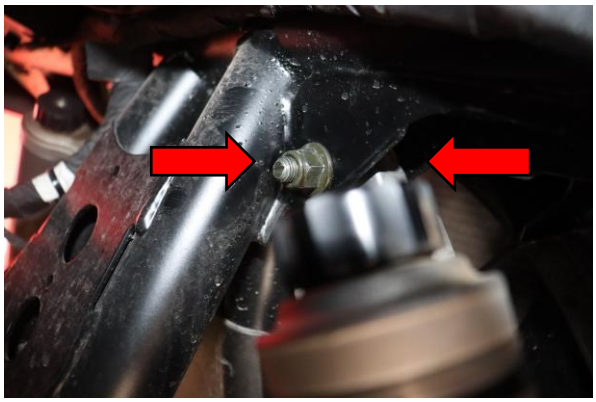
Step 16. Install Eibach main spring.

Step 17. Compress the spring assembly and re-install the spring retainer.

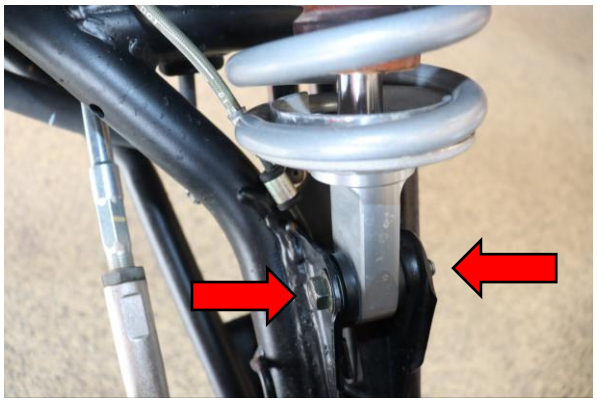
Step 18. Decompress shock and ensure spring and retainer sit flush on lower mount.

FRONT INSTALLATION

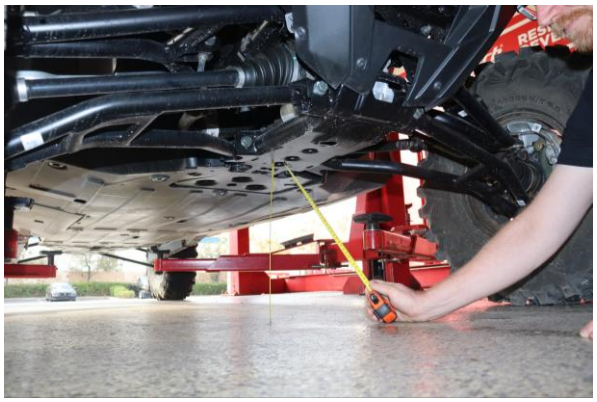
Step 19. Install shock into vehicle.



Step 20. Install upper shock mounting bolt and tighten to manufacturer specification 44 ft-lb with a socket and wrench.



Step 21. Install lower shock bolt and tighten to manufacturer specification 44 ft-lb using 15mm socket and wrench.



Step 22. Measurement shown from level floor surface to front skid plate 355mm (14” inches).

RECOMMENDED FRONT AND REAR SHOCK SETTINGS

Front: 10 clicks in from fully open.

Rear: 7 clicks in from fully open.

Note: These are the recommended shock settings that we tested using the spring rates provided in this kit.

Note: Full open is counterclockwise.

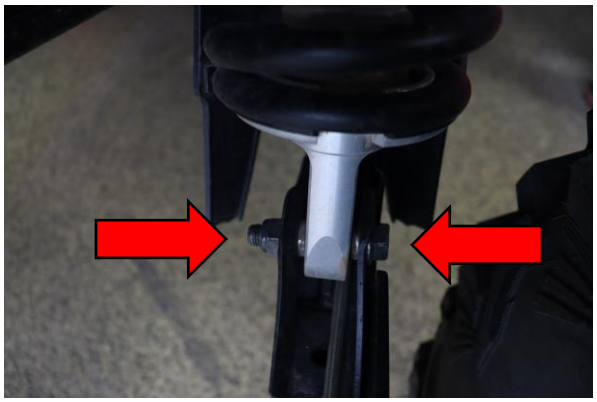
Step 23. Measure from the ground to the center of the lower control arm bolt. The recommended preload measurement in **Step 12** will get the vehicle close to the recommended ride height but each vehicle may vary some. We recommend setting the ride height at **414mm (16 5/16in.)** measuring from the ground to the center of the lower radius arm bolt. As reference, skid plate measurement at recommended preload should be 355**mm (14in**.) shown in STEP 22 . **Note: Measurements were taken from a vehicle with 30 in. Tires. If your vehicle has a different size tire, the ride height will need to be adjusted. 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.**

REAR INSTALLATION

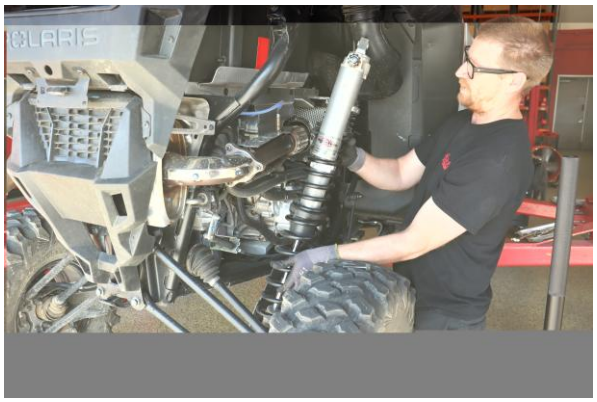
Step 1. Raise the rear of the vehicle and support it with the proper safety equipment. Remove wheel and tire. Secure trailing arm to frame using strap. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**

Step 2. Use a strap or jack to hold the suspension to prevent damage to axles.

Step 3. Remove upper shock mounting hardware using a 18mm socket and wrench.



Step 4. Remove upper shock mounting hardware using a 18mm socket and wrench.



Step 5. Lift assembly from the bottom to clear the rear trailing arm and remove shock assembly from the vehicle.

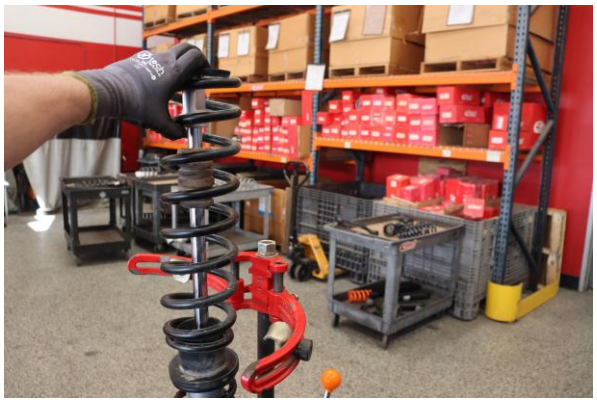
Step 6. Use spring compressor to compress shock assembly.

REAR INSTALLATION

Step 7. Push the bump stop down to free lower spring perch from lower rod end mount.

Step 8. Remove the lower spring retainer.

Step 9. Remove the shock guard.



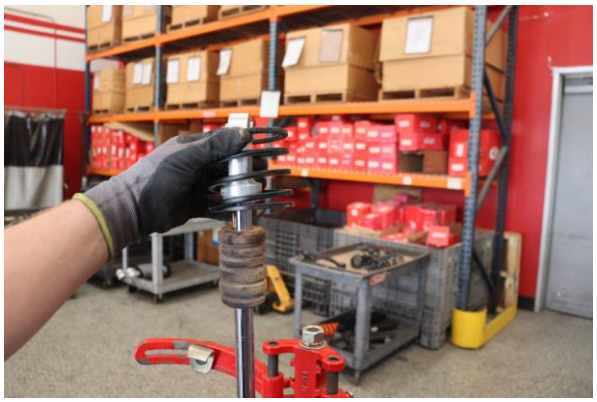
Step 10. Remove OE main spring.

Step 11. Remove OE spring slider.

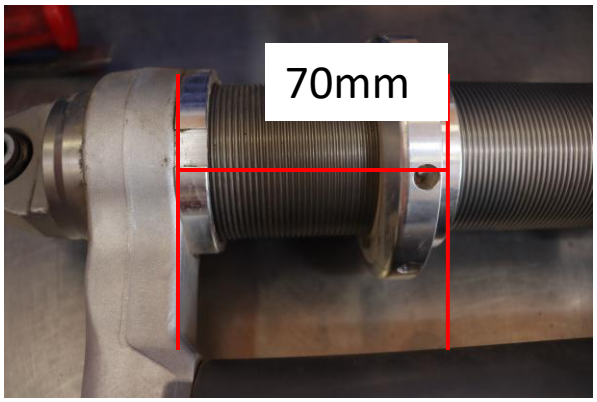
Step 12. Remove OE secondary spring.

REAR INSTALLATION

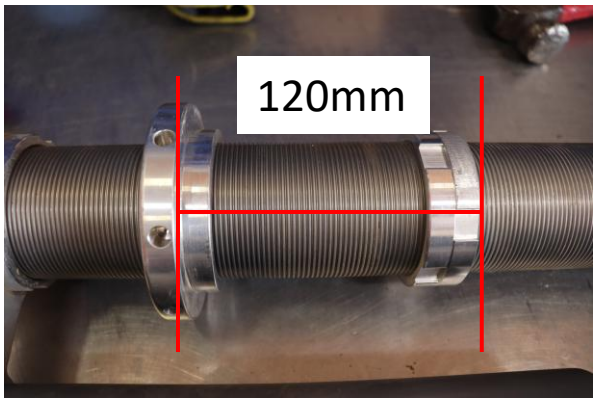
Step 13. Remove second OE spring slider.



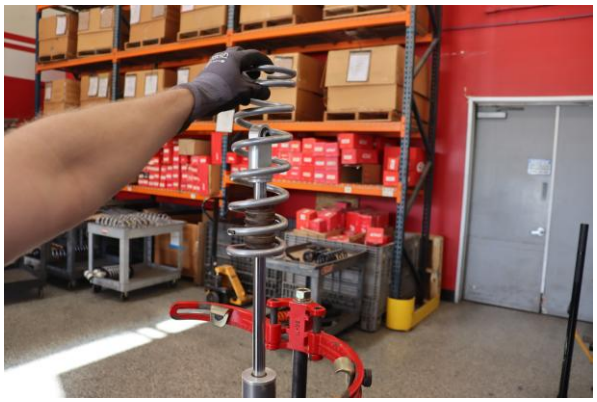
Step 14. Remove OE helper spring.



Step 15. Set pre-load to **70mm (2 3/4in.)** from bottom of spring seat to bottom of furthest point on reservoir bridge.



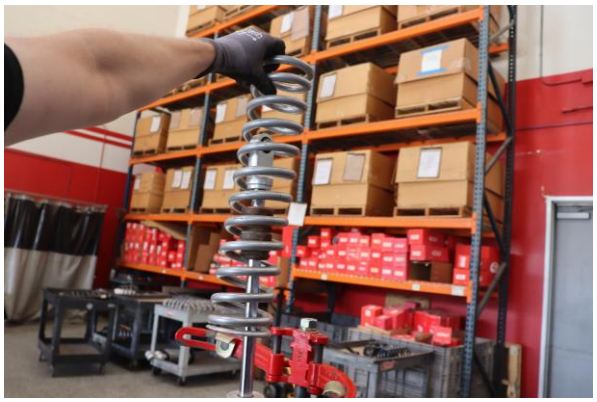
Step 16. Set OE crossover ring to **120mm (4 3/4in.)** from bottom of spring seat to bottom of lowest crossover ring.



Step 17. Install Eibach secondary spring.

Step 18. Install Eibach supplied spring slider with larger face pointed away from secondary spring.

REAR INSTALLATION



Step 19. Install Eibach main spring.

Step 20. Reinstall the shock guard.

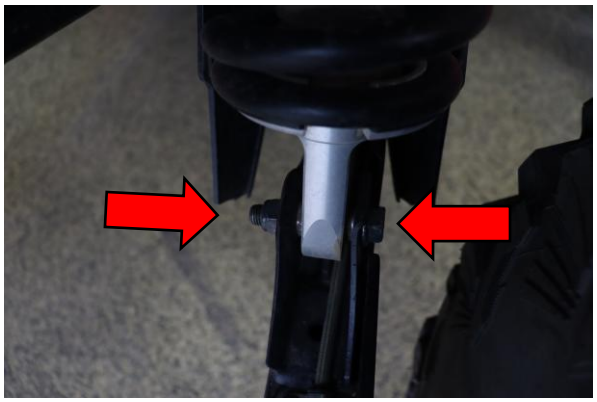
Step 21. Compress shock assembly enough to install lower spring retainer. Decompress shock and ensure spring and retainer sit flush on lower mount.

Step 22. Ensure spring and retainer sit flush on lower mount. Shown in photo above.

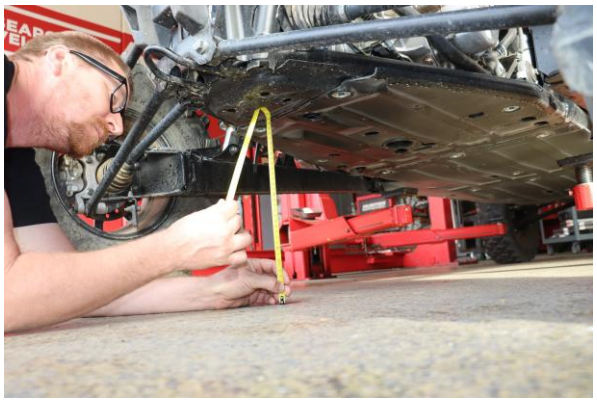
Step 23. Set shock assembly in vehicle by inserting top of assembly through opening in body panels and setting lower shock mount in trailing arm.

Step 24. Install upper shock mount nut and bolt. Tighten to manufacturer specification 74 FT-LB using 18mm wrench and socket.

REAR INSTALLATION



Step 25. Install lower shock mount nut and bolt. Tighten to manufacturer specification 74 FT-LB using 18mm wrench and socket.



Step 26. Remove strap or jack lower onto ground and scrub in car before preforming heights. Measurement shown from level floor surface to front skid plate 355mm (14” inches).

Step 27. Measure from the ground to the center of the lower control 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. We recommend setting the ride height at **407mm (16 1/16in.)** measuring from the ground to the center of the lower radius arm bolt. As reference, skid plate measurement at recommended preload should be 355**mm (14in**.) shown in STEP 26 . **Note: Measurements were taken from a vehicle with 30 in. Tires. If your vehicle has a different size tire, the ride height will need to be adjusted. 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.**

RECOMMENDED FRONT AND REAR SHOCK SETTINGS

Front: 10 clicks in from fully open.

Rear: 7 clicks in from fully open.

Note: These are the recommended shock settings that we tested using the spring rates provided in this kit.

Note: Full open is counterclockwise.