Installation Instructions

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

PRO-UTV: E85-209-018-01-22

POLARIS RZR XP 4 TURBO S VELOCITY

Notes

WALKER EVANS SHOCKS FRONT AND REAR

STAGE 1 (COMFORT)

All measurements were taken from a vehicle with 32” tires.

Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	0800.300.0250S	2
FRONT MAIN SPRING	1000.300.0350S	2
REAR SECONDARY SPRING	0800.300.0200S	2
REAR MAIN SPRING	1600.300.0250S	2
FRONT SLIDERS	8001105	2
FRONT CROSSOVER RINGS	8001063	2
REAR SLIDERS	8001498	2
REAR CROSSOVER RINGS	8001314	2
REAR ADAPTER	ADAPTER350-375	4

Installation Notes

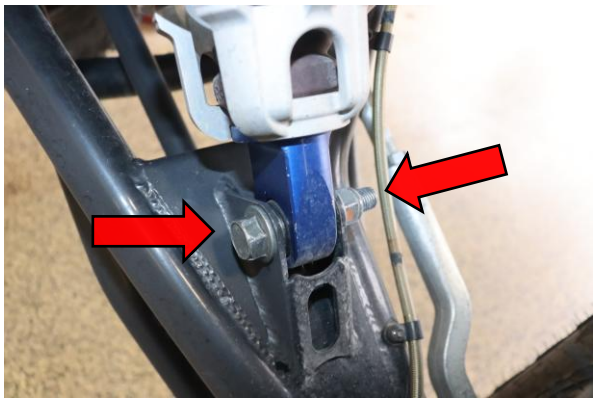
Read all instructions before beginning installation

- 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.

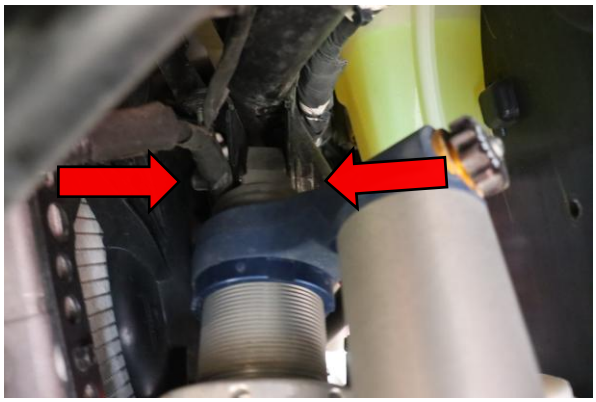
FRONT INSTALLATION

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. Support the axle using a strap or jack to prevent axle damage.

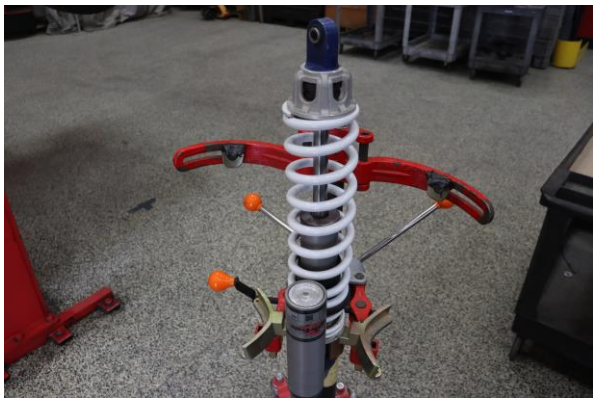


Step 3. Remove 18mm bolt and nut for lower shock bolt.



Step 4. Remove 18mm bolt and nut at upper stock mount.

Step 5. Remove shock assembly from vehicle between upper and lower shock mounts.



Step 6. Use spring compressor to compress shock assembly.

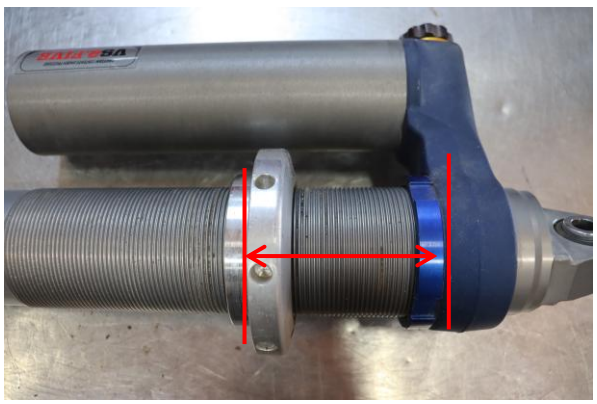
FRONT INSTALLATION

Step 7. Remove the spring retainer.

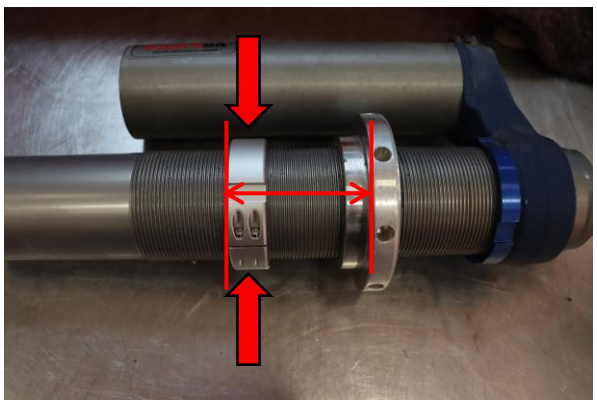
Step 8. Remove OE main spring.

Step 9. Remove spring slider.

Step 10. Remove OE secondary spring.



Step 11. Set pre-load of spring seat to **70mm (2 3/4in.)** from bottom of seat to bottom of reservoir bridge.



Step 12. INSTALL 8001063 front crossover ring. Set crossover ring to **70mm (2 3/4in.)** from bottom of spring seat to bottom of crossover ring.

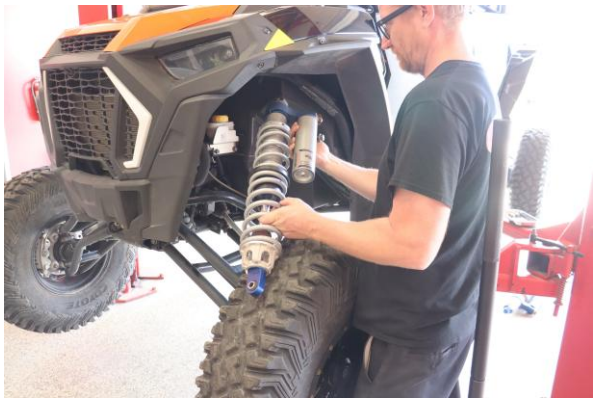
FRONT INSTALLATION

Step 13. Install Eibach secondary spring.

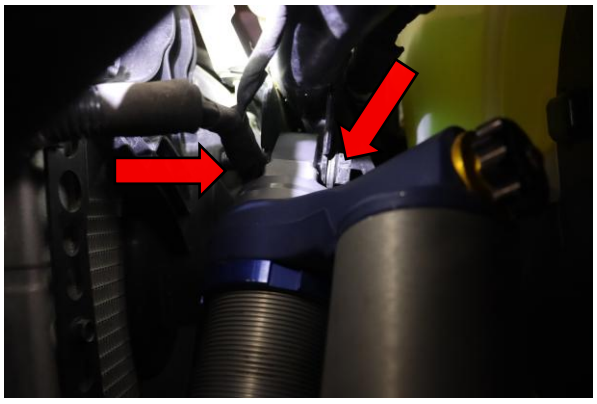
Step 14. Install Eibach spring slider 8001105 with larger face pointed away from secondary spring.

Step 15. Install Eibach 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.



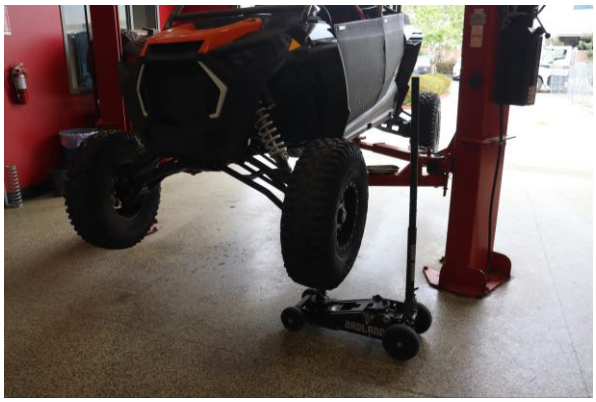
Step 17. Install shock in vehicle between upper and lower control arm.



Step 18. Install upper shock bolt and tighten to manufacturer specification using 18mm socket and wrench.

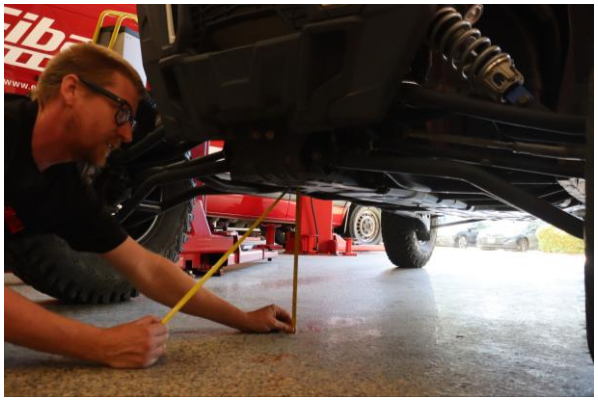
FRONT INSTALLATION

Step 19. Install lower shock bolt and tighten to manufacturer specification using 18mm socket and wrench.



Step 20. Remove jack or tie straps used to hold assembly.

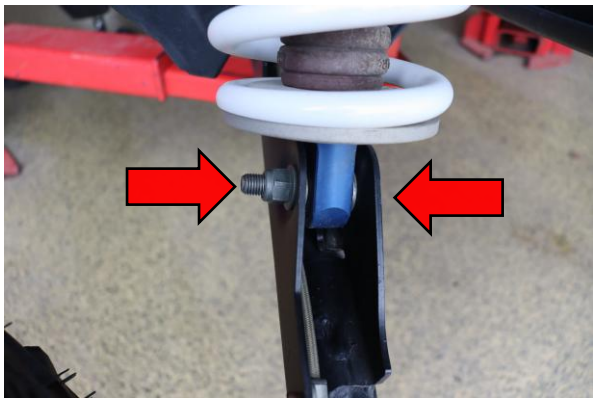
Step 21. Lower car onto the ground.



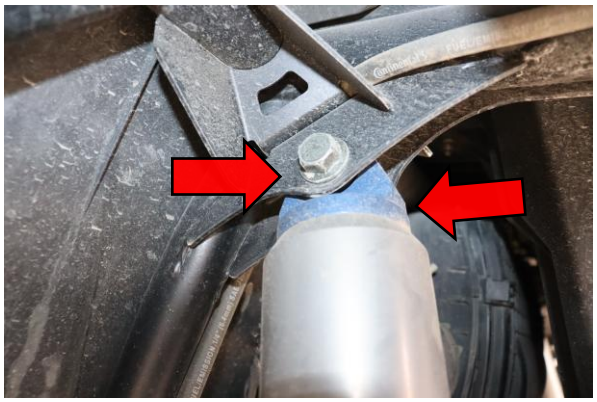
Step 22. Measure from the ground to the center of front skid plate (STEP 22) . The recommended preload measurement in Step 11 will get the vehicle close to the recommended ride height but each vehicle may vary some. As reference, skid plate measurement at recommended preload should be 394mm (15.5in) **Note: Measurements were taken from a vehicle with 32in. 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. Secure trailing arm to frame using strap or use a jack under wheel to prevent damage to axle. . **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



Step 2. Remove 18mm lower shock mount nut and bolt.



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

Step 4. Lift assembly from the bottom to clear the rear trailing arm and remove shock assembly from the vehicle.

Step 5. Use a spring compressor to compress spring assembly. Remove lower spring retainer.

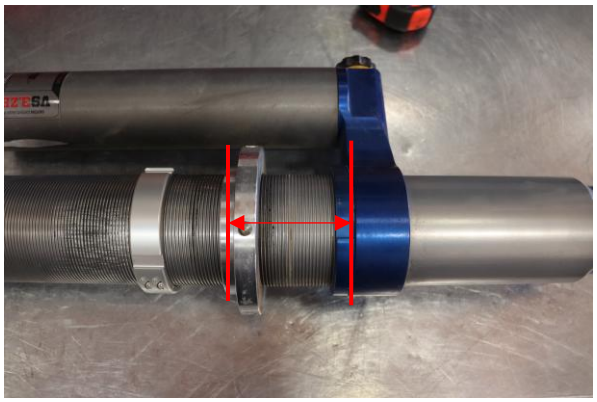
Step 6. Remove the spring retainer.

REAR INSTALLATION

Step 7. Remove OE main spring

Step 8. Remove OE slider

Step 9. Remove tender spring.



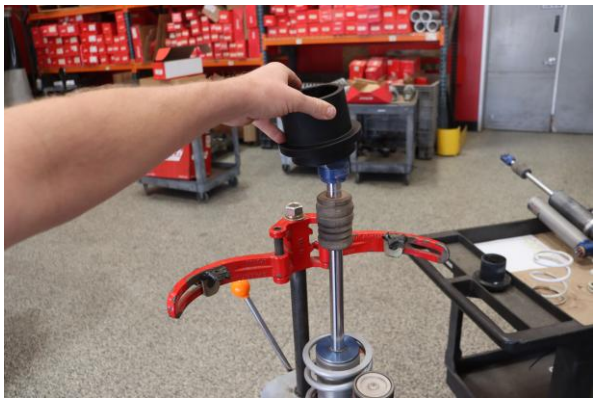
Step 10. Set pre-load to **55mm (2 3/16 in.)** from bottom of spring seat to bottom of furthest point on reservoir bridge.

Step 11. INSTALL 8001063 front crossover ring. Set crossover ring to **65mm (2 1/4 in.)** from bottom of spring seat to bottom of crossover ring.

Step 12. Install ADAPTER350-375 on OE spring perch.

REAR INSTALLATION

Step 13. Install Eibach secondary spring.

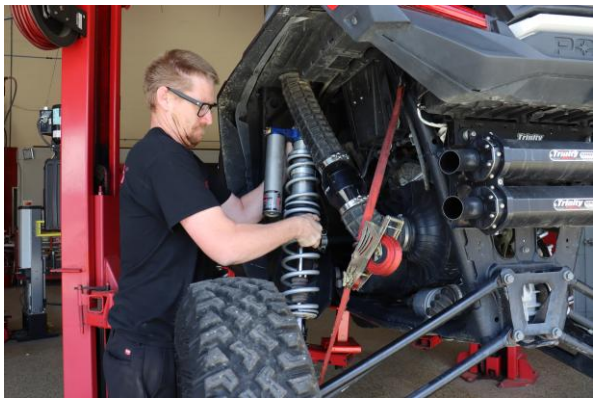


Step 14. Install Eibach supplied spring slider 8001498.

Step 15. Install Eibach main spring

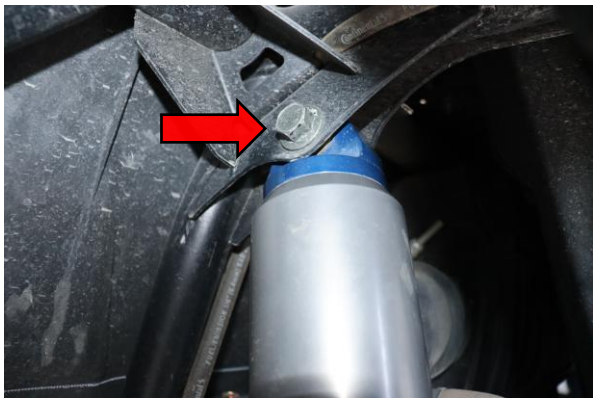
Step 16. Install ADAPTER350-375 on bottom of main spring.

Step 17. Install lower spring retainer. Decompress spring assembly making sure that lower spring retainer and main spring sit flush with lower shock mount.



Step 18. Set shock assembly in vehicle by inserting top of assembly through opening in body panels and setting lower shock mount in trailing arm.

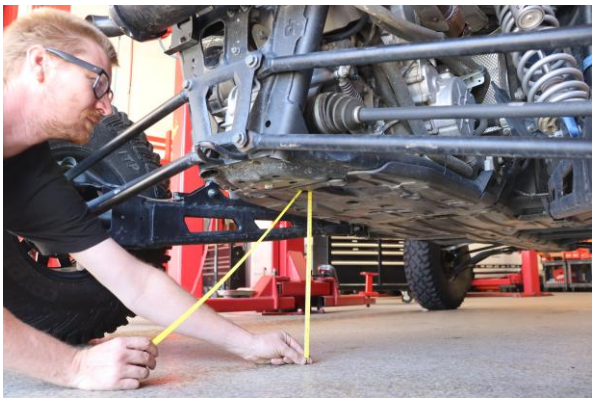
REAR INSTALLATION



Step 19. Install upper shock mount nut and bolt. Tighten to manufacturer specification using 18mm wrench and socket.

Step 20. Install lower shock mount nut and bolt. Tighten to manufacturer specification using 18mm wrench and socket.

Step 21. Remove jack or tie straps used to hold assembly. Lower car on to the ground.



Step 22. Scrub car and check front and rear heights.

RECOMMENDED FRONT AND REAR SHOCK SETTINGS

- **<u>Front</u>: 3 Clicks in (Clockwise) from full open.**
- **<u>Rear</u>: 6 Clicks in (Clockwise) from Full Open.**

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

Note: Full open is counter clockwise

Step 21. Measure from the ground to the center of rear skid plate (STEP 22) . 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 394mm (15.5in) **Note: Measurements were taken from a vehicle with 32in. 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.**