

Installation Instructions

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PRO-UTV: E85-209-036-04-22

24+ Polaris Xpedition Northstar ADV5 Stage 4

Notes

Stage 4 kit for OE Fox Shocks

Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	0600.300.0450S	2
FRONT MAIN SPRING	1200.300.0500S	2
REAR SECONDARY SPRING	0600.300.0450S	2
REAR MAIN SPRING	1400.300.0500S	2

Installation Notes

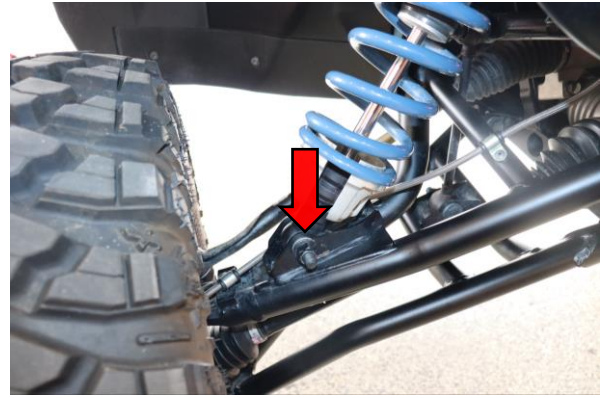
Read all instructions before beginning installation

- 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



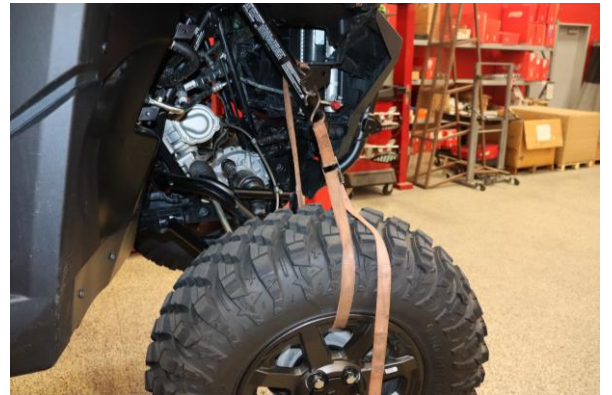
Step 1. Raise the front of the vehicle and support it with the proper safety equipment. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



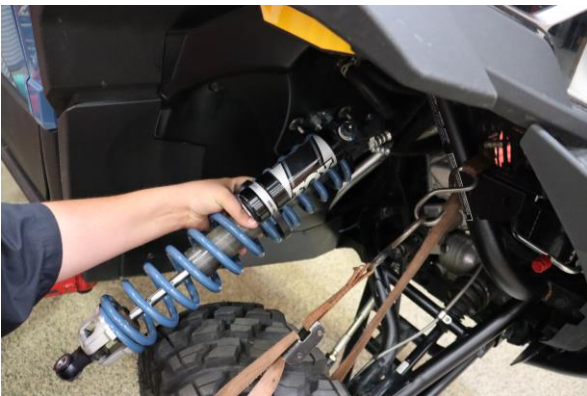
Step 2. Remove the lower shock mount nut using two 18mm.



Step 3. Remove the upper shock mount nut using two 18mm.



Step 4. Use a strap between the tire and the frame to prevent damage to the axle from over extension.



Step 5. Lift slightly on the wheel and tire to remove the lower shock mounting bolt. Allow the lower control arm to rest against the strap. Remove the upper shock mounting bolt. Rotate shock out of upper and lower mounts and remove from the vehicle.



Step 6. Using a spring compressor, compress the shock assembly. Push the lower bump stop down enough that the lower spring retainer can clear the lower shock mount.

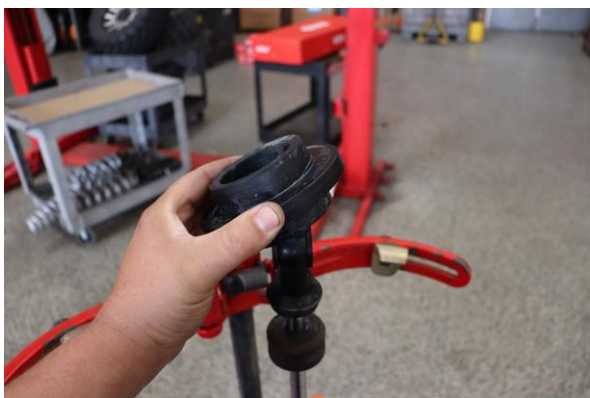
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Step 7. Remove the lower spring perch.
Decompress the spring assembly.



Step 8. Remove the OE main spring.



Step 9. Remove the OE spring slider.



Step 10. Remove the OE tender spring

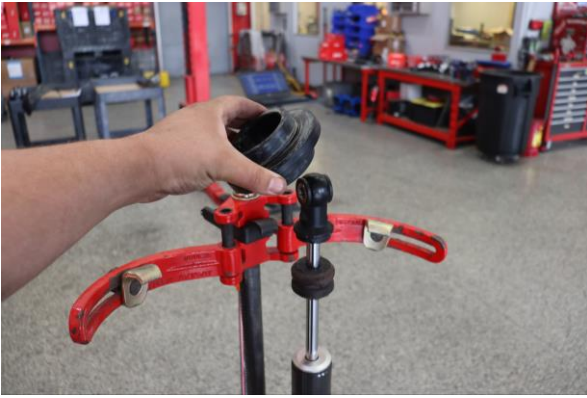


Step 11. Remove shock from the spring compressor.
Adjust the upper spring perch to **60mm (2 23/64 in)**
measuring from the spring seat to the bottom of the
bridge to set spring preload.

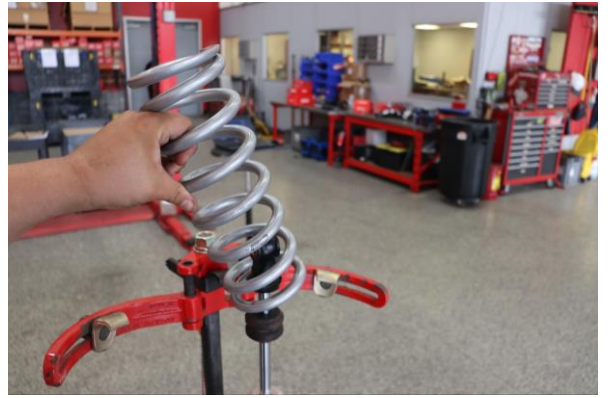


Step 12. Place shock back on the spring compressor.
Install Eibach tender spring.

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Step 13. Install OE spring slider.



Step 14. Install Eibach main spring.



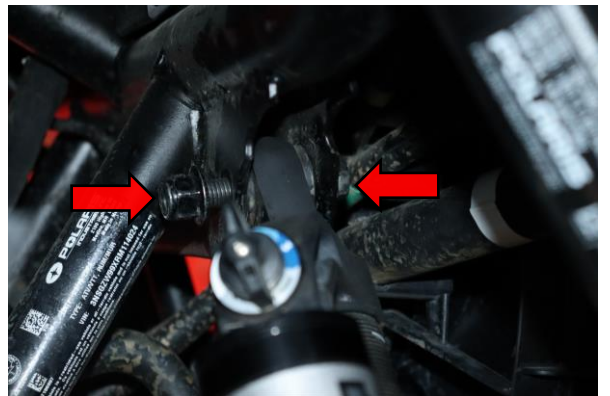
Step 15. Compress the spring assembly and install the lower spring perch.



Step 16. Decompress assembly and ensure lower spring perch engages lower shock mount fully.

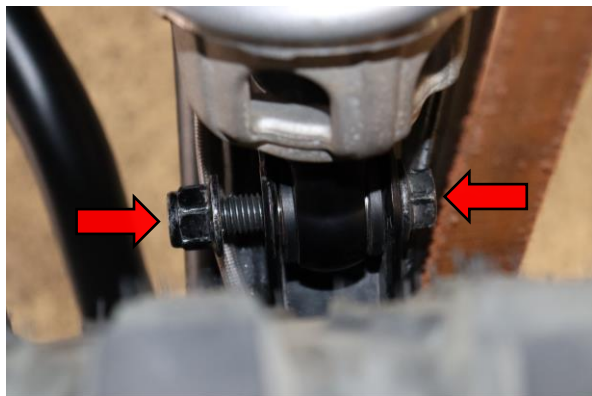


Step 17. Install shock assembly in the vehicle.



Step 18. Install upper shock mount nut and bolt loosely. Slightly lift on wheel and rotate lower shock into place. Install lower shock mount nut and bolt. Use two 15mm to tighten upper and lower shock mount nut and bolts to manufacturer specification.

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Step 19. Slightly lift on wheel and rotate lower shock into place. Install lower shock mount nut and bolt. Use two 18mm to tighten upper and lower shock mount nut and bolts to manufacturer specification.



Step 20. Remove the strap installed in step 4



Step 20. Lower the vehicle and drive a short distance to allow suspension to settle to a consistent ride height. 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, shock eye to eye measurement at recommended preload should be **564mm (22 13/64in.)**. We recommend setting the ride height at **420 mm (16 17/32 in.)** measuring from the ground to the center of the lower control arm bolt. Due to sensitivity of weight on UTV's, some adjustment of preload may be needed to achieve desired ride height. **PRELOAD SHOULD BE ADJUSTED TO ACHIEVE AT LEAST 14"(355mm) OF GROUND CLEARANCE TO THE SKID PLATE.** These measurements were taken with 100lbs of additional weight in the front of the vehicle & 200lbs in the rear bed. **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. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



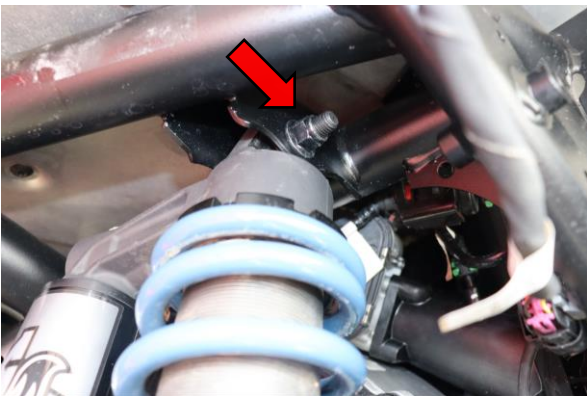
Step 2. Use a 19mm to remove the rear wheels.



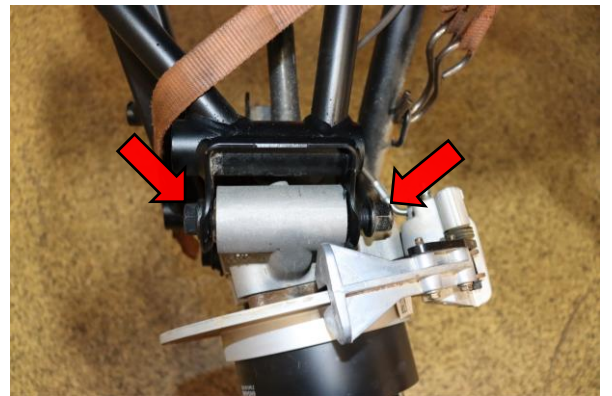
Step 3. Use a strap between the lower control arm and the frame to support the rear suspension during shock removal.



Step 4. Use two 18mm to remove the lower shock mount nut.



Step 5. Use two 18mm to remove the upper shock mount nut.



Step 6. Use two 21mm to remove the upper control arm to wheel hub nut and bolt.

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Step 7. Lift the upper control arm up from the wheel hub.



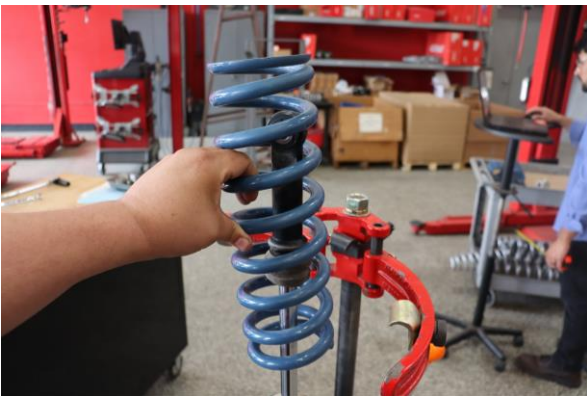
Step 8. Lift slightly on the wheel hub to remove the upper and lower shock mount bolts. Rotate the top of the shock out of the upper mount and lift out of the lower mount. Remove the shock assembly between the upper and lower control arm.



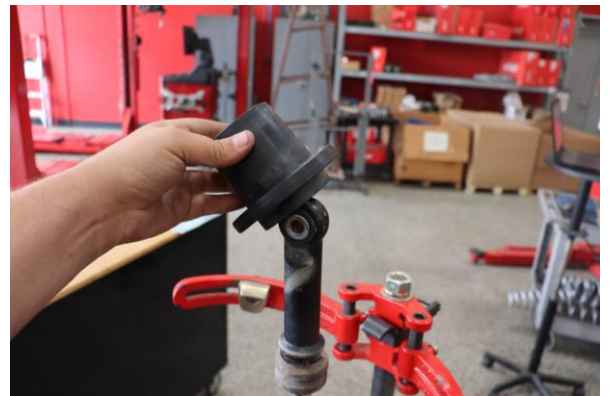
Step 9. Using a spring compressor, compress the shock assembly. Push the lower bump stop down enough that the lower spring retainer can clear the lower shock mount.



Step 10. Remove the lower spring perch.



Step 11. Remove the OE main spring.

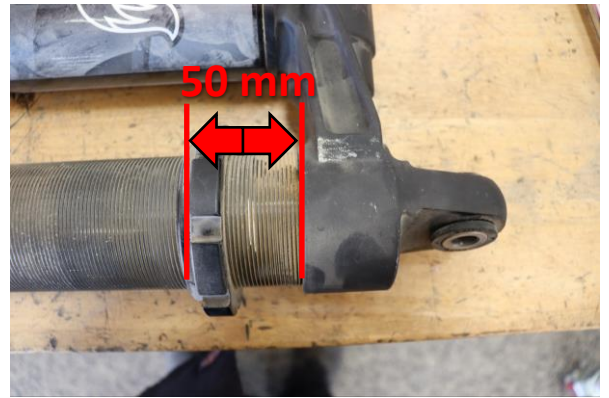


Step 12. Remove the OE spring slider.

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Step 13. Remove the OE tender spring.



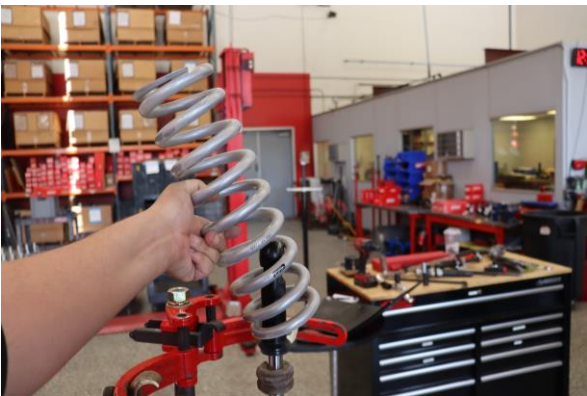
Step 14. Remove shock from the spring compressor. Adjust the upper spring perch to **50 mm (1 31/32 in)** measuring from the spring seat to the bottom of the bridge to set spring preload.



Step 15. Place the shock back in the spring compressor and install the Eibach secondary spring.



Step 16. Install spring slider.



Step 17. Install Eibach primary spring.

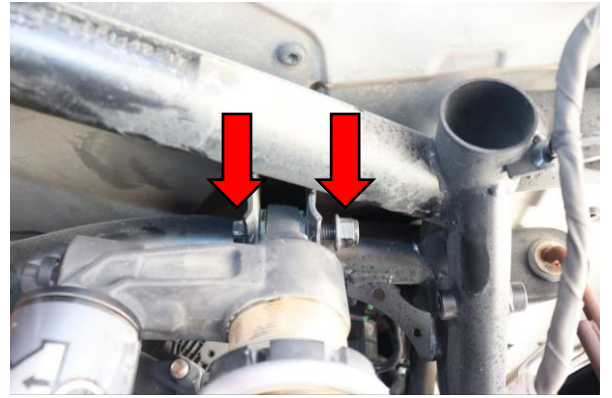


Step 18. Install the lower spring perch. Decompress the shock assembly and check to make sure the spring perch is fully engaged.

REAR INSTALLATION



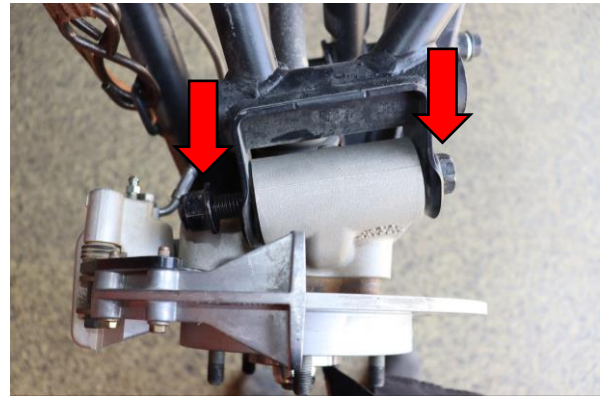
Step 19. Place the rear shock assembly in the vehicle by inserting between the upper and lower control arm



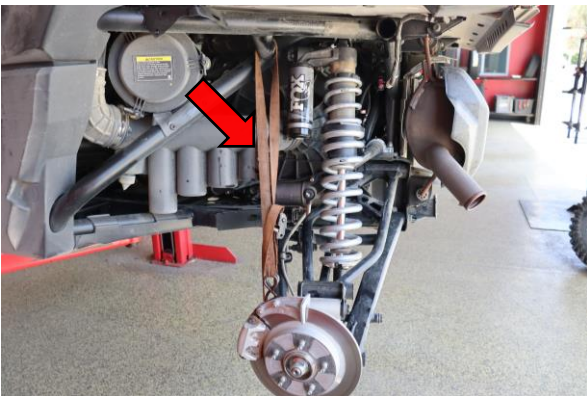
Step 20. Use two 18mm to install upper shock mount nut and bolt. Tighten to factory specification.



Step 21. Use two 18mm to install the lower shock mount nut and bolt. Tighten to factory specification.



Step 22. Use two 21mm to install the upper control arm to hub nut and bolt. Tighten to factory specification.



Step 23. Remove the strap installed in step 3.



Step 24. Install rear wheel and tire using a 19mm. Tighten to factory specification.

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Step 25. Lower the vehicle & drive a short distance to allow suspension to settle to a consistent ride height. Measure from the ground to the center of the rear lower control arm bolt. The recommended preload measurement in **Step 14** 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 **651mm (25 5/8 in.)**. We recommend setting the ride height at **390mm (15 23/64in.)** measuring from the ground to the center of the lower control arm bolt. These measurements were taken with 100lbs of additional weight in the front of the vehicle & 200lbs in the rear bed. **PRELOAD SHOULD BE ADJUSTED TO ACHIEVE AT LEAST 14”(355mm) OF GROUND CLEARANCE TO THE SKID PLATE.** Due to sensitivity of weight on UTV's, some adjustment of preload may be needed to achieve desired ride height. **Note: If you have larger than stock wheels and tires, the ride height will be increased.**
