

# Installation Instructions

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



## PRO-UTV: E85-209-038-01-22

24+ POLARIS RZR TURBO R ULTIMATE

### Notes

Stage 1 kit

Ride heights measured with OE 32" tire

### Kit Contents

Description	Part Number	Quantity
FRONT SECONDARY SPRING	1000.375.0200S	2
FRONT MAIN SPRING	1400.375.0200S	2
REAR SECONDARY SPRING	1200.375.0150S	2
REAR MAIN SPRING	1600.375.0250S	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.

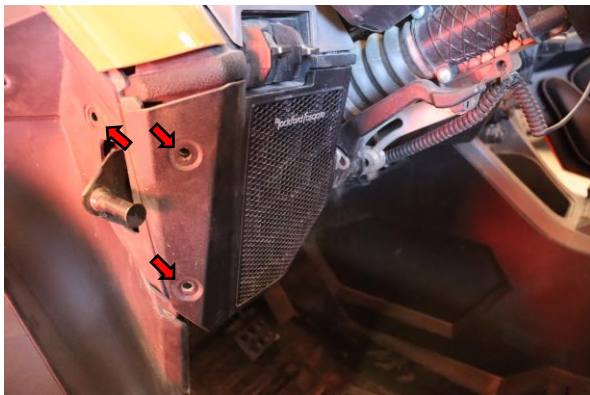
## FRONT INSTALLATION



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 all T40 fasteners and push pins from both front fenders.



Step 3. Remove T40 fasteners from the left and right speaker grill and additional fasteners from the fender. Remove the left and right speaker grill.



Step 4. Remove two push pins holding the fender inside the car. Carefully remove the fender.



Step 5. Remove two T40 fasteners and remove the cowl cover.

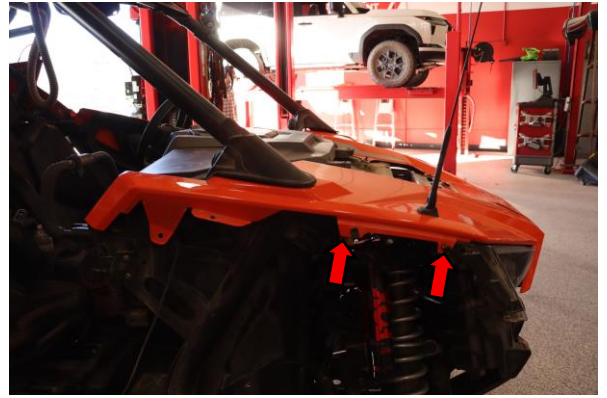


Step 6. Remove 8mm nut from the bottom of the antenna on the right side of the vehicle. Remove the antenna.

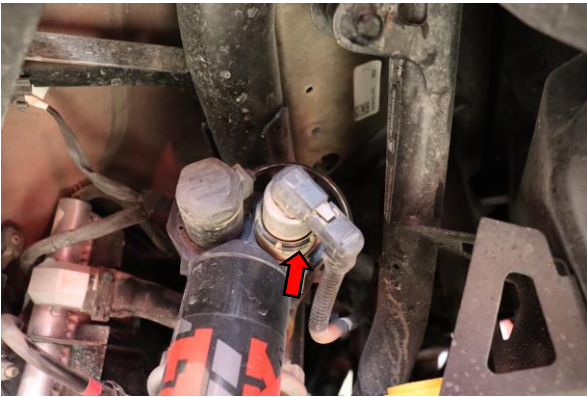
## FRONT INSTALLATION



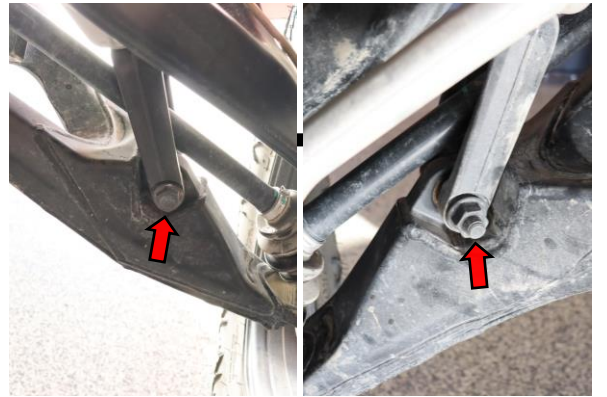
Step 7. Remove push pin and T40 from left and right hood. Remove T40 from forward camera housing. Move the forward camera housing forward and out of the way.



Step 8. Remove the remaining fasteners from the side of the left and right hood.



Step 9. Disconnect both electrical connectors at the top of the left and right front shock.



Step 10. Use two 21mm to remove the lower shock mount nut and bolt.



Step 11. Use two 21mm to remove the upper shock nut and bolt.



Step 12. Remove the shock up through the frame where the hood panels were removed. It may help to twist the shock body first with the bottom mount still in place to align the reservoir with the opening.



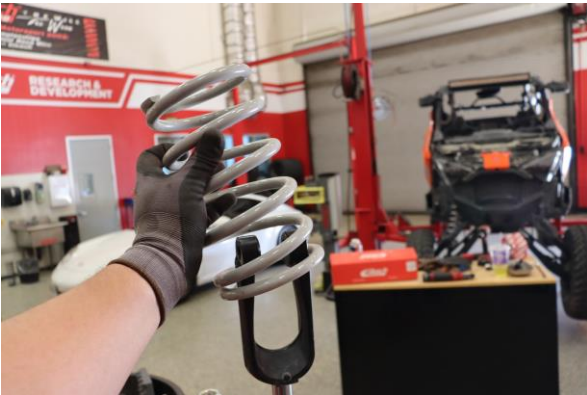
## FRONT INSTALLATION



Step 13. Use a spring compressor to compress the spring assembly enough for the lower spring perch to clear the lower shock mount.



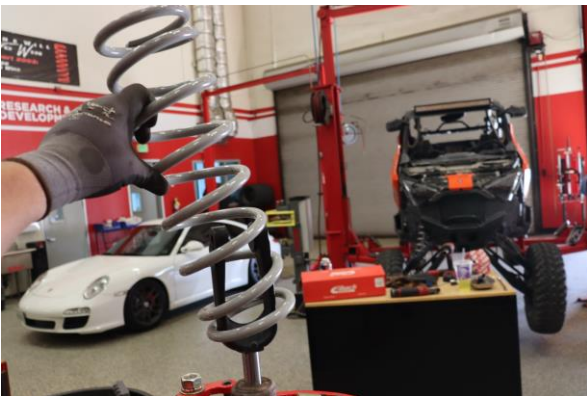
Step 14. Remove the lower spring perch. Decompress the spring assembly.



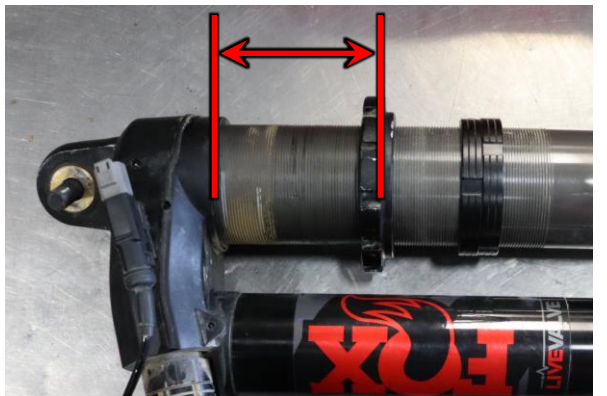
Step 15. Remove the OE secondary spring.



Step 16. Remove the spring slider.



Step 17. Remove the main spring.



Step 18. Set spring pre-load to **25mm (1")** measuring from spring seat to the bottom of the reservoir bridge.

## FRONT INSTALLATION



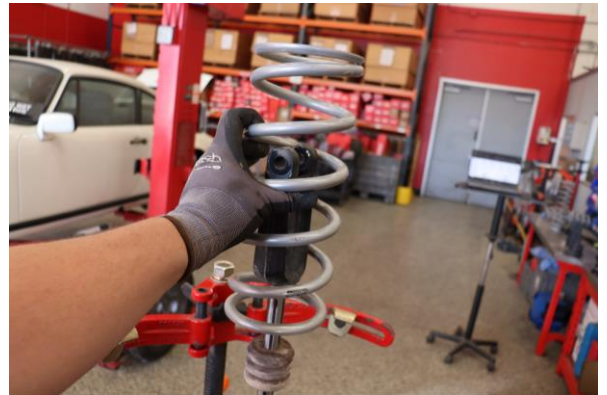
Step 19. Set crossover ring to **85mm (3 3/8")** measuring from the spring seat to the bottom edge of the crossover ring.



Step 20. Install the Eibach front secondary spring.



Step 21. Install the spring slider with the larger end facing away from the secondary spring.



Step 22. Install the Eibach front main spring.



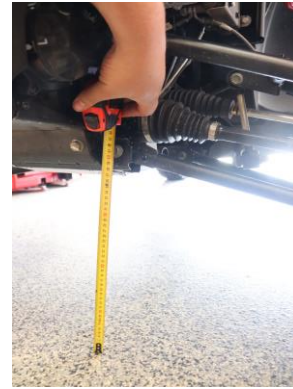
Step 23. Compress the spring assembly enough to install the lower spring perch. Slowly decompress the spring assembly making sure that the lower perch fully engages the lower shock mount.



Step 24. Carefully lower the shock assembly through the opening in the frame. Repeat spring install procedure on opposite side. Reinstall all panels in the reverse order of removal. Tighten upper and lower shock bolts to manufacturer specifications. Connect two electrical connectors per shock at the upper shock mount.



## FRONT INSTALLATION



Step 25. 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 18** will get the vehicle close to the recommended ride height but each vehicle may vary some. We recommend setting the ride height at **435mm (17 1/8")** measuring from the ground to the center of the front lower control arm bolt. **Note: Ride heights from the ground may vary depending on tire pressure and tire size. Skid plate height should be approximately 15" measured from a flat portion front and rear. Preload may need to be adjusted due to vehicle tolerances and weight distribution of accessories.**

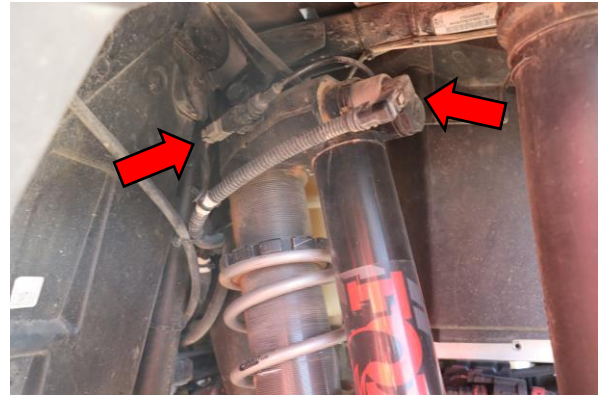
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Note: For accurate ride heights, drive short distance in comfort mode to settle suspension.

## REAR INSTALLATION



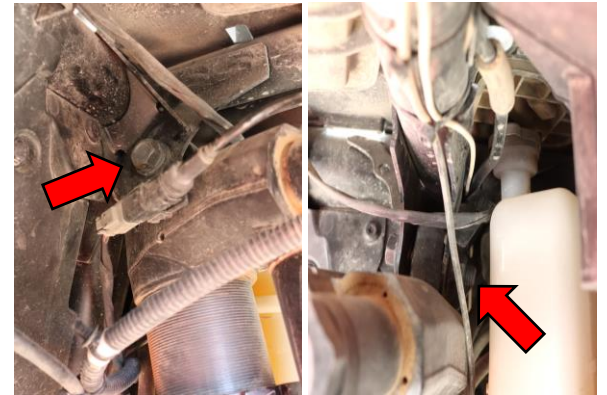
Step 1. Raise the rear of the vehicle and support it with the proper safety equipment. **Note: Never work on or under a vehicle that is not supported by the proper safety equipment.**



Step 2. Disconnect two electrical connectors at the top of each rear shock.



Step 3. Use 21mm to remove the lower shock mounting nut. Support the wheel to take weight off the lower shock mount bolt and remove it from the lower shock mount.



Step 4. Use 21mm to remove the upper shock mount nut and bolt.



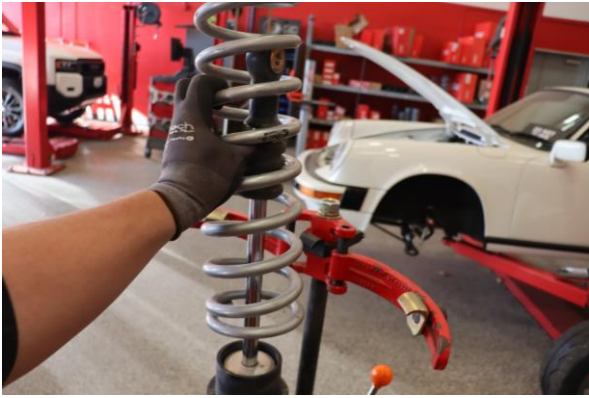
Step 5. Remove the shock from the vehicle. Use a spring compressor to compress the spring assembly enough that the lower spring perch clears the lower shock mount.



Step 6. Remove the lower spring perch. Decompress the spring assembly.



## REAR INSTALLATION



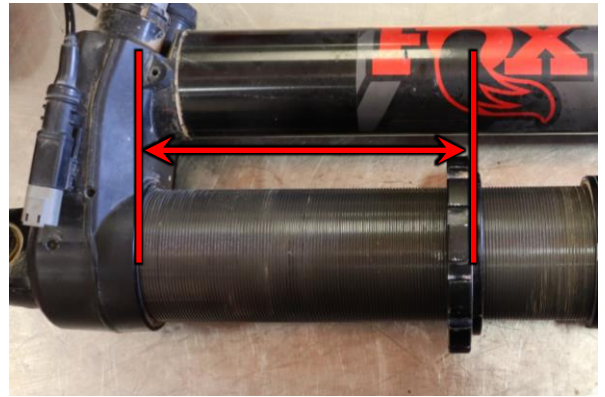
Step 7. Remove the rear main spring.



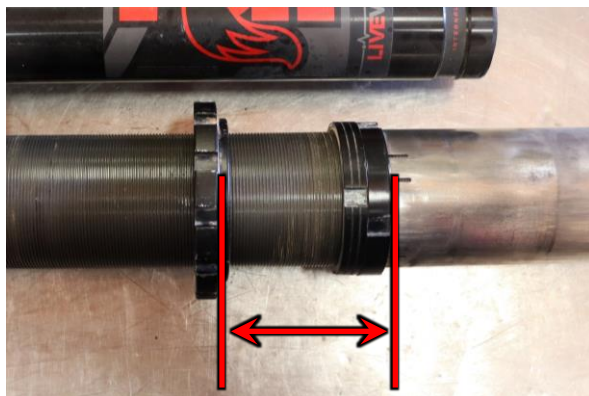
Step 8. Remove the rear spring slider.



Step 9. Remove the rear secondary spring.



Step 10. Set spring pre-load to **140mm (5 1/2")** measuring from the upper spring seat to the reservoir bridge.



Step 11. Set the crossover ring to **100mm (3 15/16")** measuring from the upper spring seat to the bottom edge of the crossover ring.



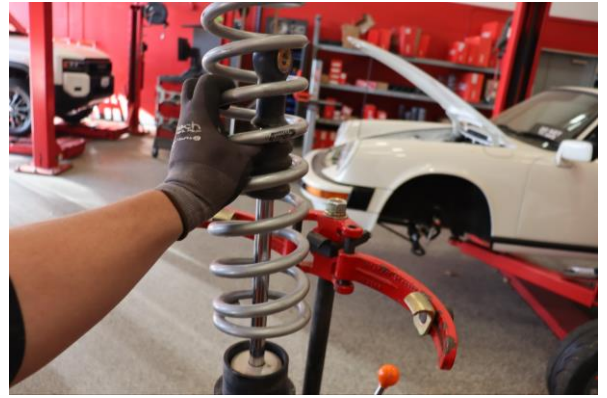
Step 12. Install Eibach rear secondary spring.



## REAR INSTALLATION



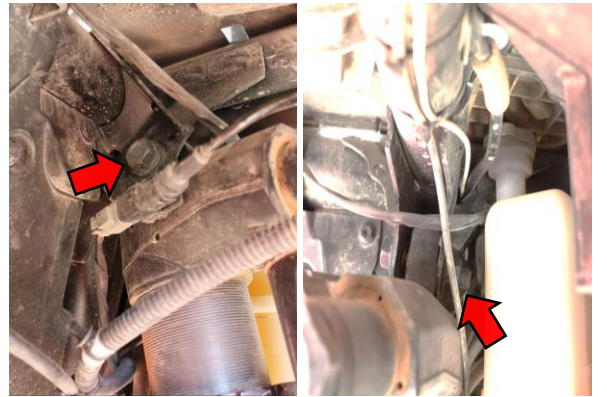
Step 13. Install the spring slider with the large end facing away from the secondary spring.



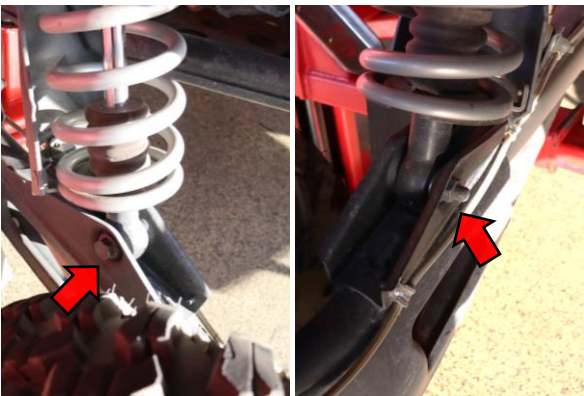
Step 14. Install the Eibach rear main spring. Compress the spring assembly enough that the lower spring perch will clear the lower shock mount.



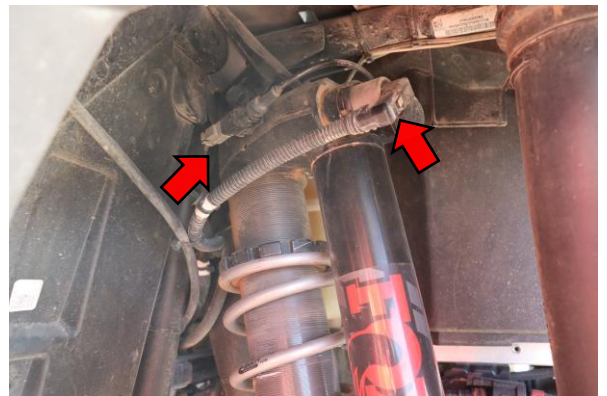
Step 15. install the lower spring perch. Decompress the spring assembly ensuring that the lower spring perch properly engages the lower shock mount. The rock guard should face the opposite direction of the reservoir at the top of the shock.



Step 16. Install the top of the shock first using upper shock mount bolt. Use 21mm to tighten the upper shock mount nut and bolt to manufacturer specification.



Step 17. Support the weight of the tire and install the lower shock mount bolt. Use 21mm to tighten the lower shock mount nut and bolt to manufacturer specification.



Step 18. Reconnect the two electrical connectors at the top of each shock.

## REAR INSTALLATION



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 rear lower control arm bolt. The recommended preload measurement in **Step 10** will get the vehicle close to the recommended ride height but each vehicle may vary some. We recommend setting the ride height at **450mm (17 11/16in.)** measuring from the ground to the center of the lower control arm bolt. **Note: Ride heights from the ground may vary depending on tire pressure and tire size. Skid plate height should be approximately 15" measured from a flat portion front and rear. Preload may need to be adjusted due to vehicle tolerances and weight distribution of accessories.**

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Note: For accurate ride heights, drive short distance in comfort mode to settle suspension.