



# ROADACTIVE SUSPENSION

## FITTING INSTRUCTIONS FOR THE THE FOLLOWING KIT:

5611-TZHD



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## Choosing the Correct Jack Stand Height Combination

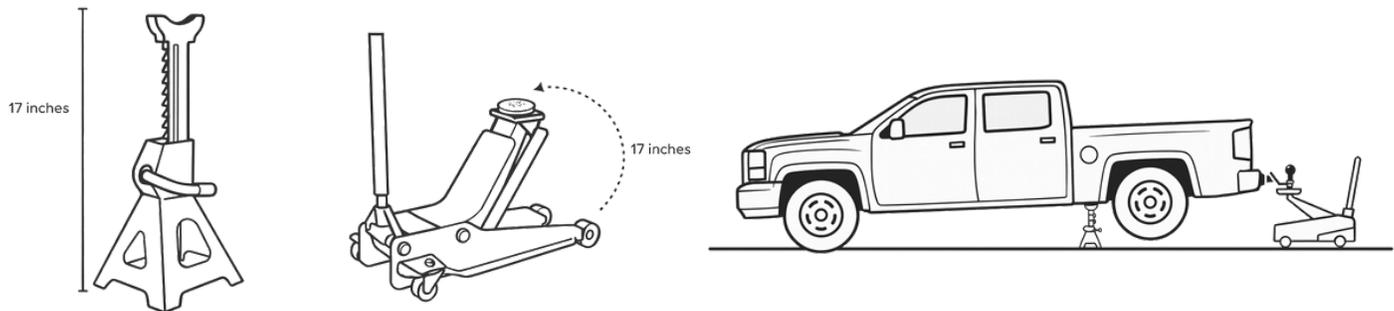
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When installing or adjusting your RoadActive Suspension (RAS) system, the rear axle must be fully free-hanging to allow maximum spring arch.

Use one of the options below based on your equipment:

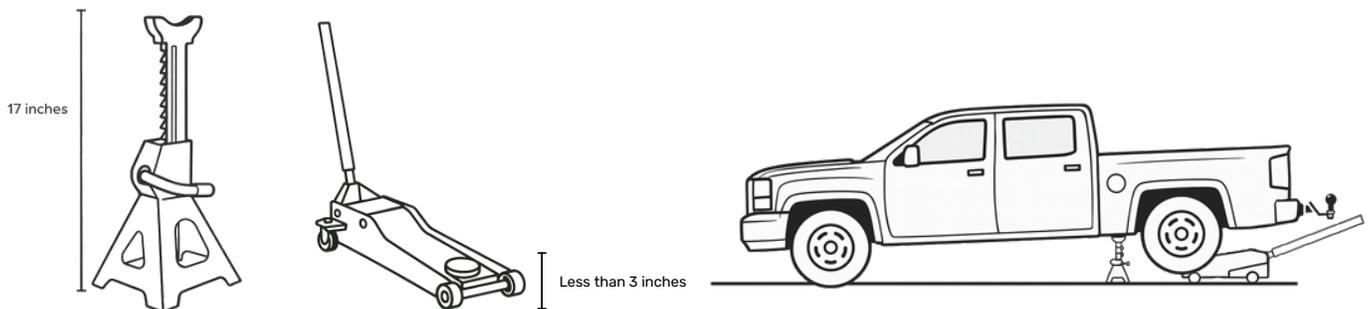
### Option 1: Standard Floor Jack

- If your jack and jack stands each have 17 inches of travel, raise the vehicle by the hitch receiver.
- Place the jack stands under the front eye of the leaf springs for safety.
- Do not lower the jack after placing the stands – keep the weight supported by the jack.



### Option 2: Low-Profile Jack

- If using a low-profile jack (3.5 inches tall or less when collapsed) and 17-inch jack stands, raise the vehicle by the differential.
- Place the jack stands (set to their highest position) under the front eye of the leaf springs.
- Lower the jack until the axle is hanging freely.



*Note: If your jack stands have 19 inches or more of travel, you may use a standard-profile floor jack.*

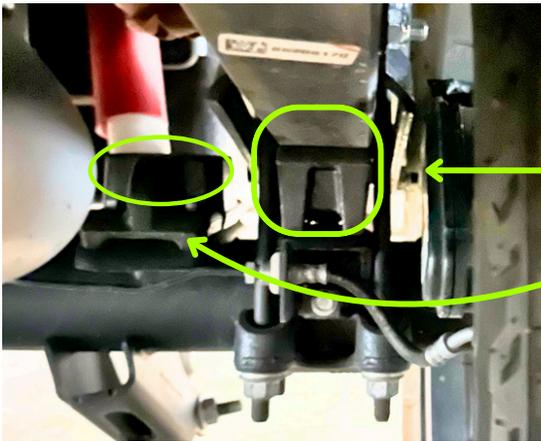
## How to Know if the RAS Bump Stop Spacer Is Needed

**You Need the RAS Bump Stop Spacer If:**



- ✓ Have a 2 inch Factory Lift Block
- ✗ Does not have the OEM Rear Suspension Spacer

**You Do NOT Need the RAS Bump Stop Spacer If:**



- ✓ Have a 2 inch Factory Lift Block
- ✓ Have the OEM Rear Suspension Spacer



- ✗ Does not have the 2 inch Factory Lift Block
- ✗ Does not have the OEM Rear Suspension Spacer

## Common FAQs & Troubleshooting

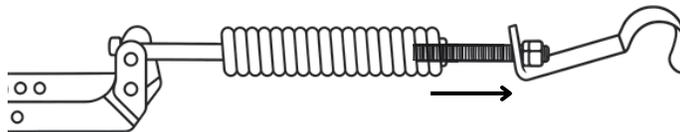
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### **Q: My RAS kit is too short, what do I do?**

The gold threaded rod is threaded inside the spring for shipping purposes.



You must unthread the gold rod counter clockwise so that the kit will lengthen.



### **Q: How do I know if my vehicle needs the RAS Bump Stop Spacer?**

A: If your truck has a 2" factory lift block and does not have the OEM rear suspension spacer, you'll need to install the RAS Bump Stop Spacers. See page 3 for visuals.

### **Q: How do I know which tension setting is right for me?**

A: Use the white disc for up to 25% added suspension support (everyday driving/towing) or the black disc for 40% support (heavier loads).

### **Q: How do I register my warranty?**

A: Go to [www.activesuspension.com](http://www.activesuspension.com) and click 'Register Warranty' or scan the QR code on page 8.

## RAS 5611-TZHD Installation

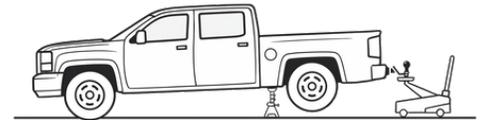
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1. Before starting the installation, make sure the vehicle is on a level surface, then place wheel chocks on both sides of the front wheels. Loosen all the rear wheel lug nuts with just one turn, but don't remove them at this stage.

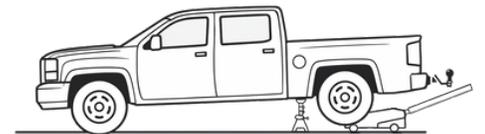


2. To get the axle hanging free, reference page 2 to determine which jack and jack stand setup option is best for you, depending on your equipment.

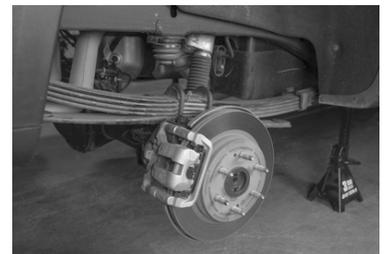
3. **Option 1:** Raise the rear of the vehicle using the jack on the hitch receiver. Place jack stands on both sides of the vehicle under the front eye of the leaf springs as a safety precaution. With the floor jack still under the hitch receiver, remove the rear wheels. With the lug nuts now loosened, the removal of the tires will be much easier.



**Option 2:** Raise the rear of the vehicle with the jack sufficiently to place jack stands on both sides of the vehicle. As the vehicle has rear leaf springs, the ideal place to position the stands is under the front eye of the leaf springs, connected to the fixed shackles, as illustrated. With the floor jack still under the differential, remove the rear wheels. With the lug nuts now loosened, this will make the removal a lot easier.



4. Once the axle is hanging free, remove the rear wheels. With the lug nuts now loosened, removal of the tires will be much easier.



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5. Now that the axle is hanging free, determine whether your setup requires the supplied RAS Bump Stop Spacers (see page 3).

If your vehicle does require the spacers, proceed to Steps 6 and 7. If you've determined that Bump Stop Spacers are not needed, proceed to step 8.

6. To install the RAS Bump Stop Spacers, remove the bolt holding the OEM bump stop using the appropriate size socket and extension.



7. Position the RAS Bump Stop Spacer against the frame and align the OEM bump stop directly beneath it. Using the supplied 8mm hex bolt, secure both the bump stop and RAS spacer to the frame. Once the RAS Bump Stop Spacers are installed on both sides of the vehicle, reinstall your tires and safely lower the vehicle by removing the jack and jack stands. Your installation is now complete.



8. The RAS kit comes fully assembled out of the box. Remove one side and place it on top of the rear leaf spring with the eye bracket hook facing the rear of the vehicle. Next position the eye bracket over the rear wrap eye of the leaf spring.



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9. The gold-threaded rod is screwed inside the tension spring, approximately 5 to 6 inches, for shipping purposes (see page 4). To lengthen the unit so the bolt spacer and nut can be located back into the axle bracket on the other side of the U-bolt and under the bottom leaf spring, start turning the coil spring with one hand and hold the threaded rod with the other. This will screw the threaded rod out of the spring, making the unit longer.



10. The axle connecting brackets have five holes on each side and come with the 12mm bolt, spacer, and nyloc nut, located through the second hole from the end of the bracket. The nyloc nut has only been turned on hand tight. Next remove the nut, bolt, and spacer. The bracket should now hang astride the leaf spring pack and U bolts.



11. With the axle bracket now in position under the leaf springs, insert the connecting bolt and spacer back through the second hole from the end of the bracket.



12. Attach the nyloc nut and tighten. The bolt with the spacer must be located directly under the leaf spring. This step is very important.



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13. Before adjusting the coil spring to the correct tension, check to see that the eye bracket is in the center of the spring eye.



14. Position the two nuts on the threaded rod as shown. Then use a 24mm wrench on the single nut that is located directly against the front of the RAS coil spring to adjust the tension. You may need to use a 24mm wrench on the lock nuts closest to the eye bracket at the end of the threaded rod to hold the threaded rod stationary. The two nuts come locked together when the kits are assembled at our factory. By holding the threaded rod stationary and turning the coil spring, the gap between the coils will start opening.



15. Use the white or black disc in the box to determine the tension setting of the coil spring. For improved handling and 25% additional suspension strength, the correct adjustment between the coils is reached when the white disc (1mm thick) is used as a gauge and can just pass between the coils. For improved handling and 40% additional suspension strength, the correct adjustment between the coils is reached when the black disc (2mm thick) is used as a gauge and can just pass between the coils. If you misplace the two discs, you can use a dime in replace of the white disc and a nickel in replace of the black disc.



16. Jam one of the two nuts located in the center of the threaded rod hard against the coil spring, then follow with the second nut and jam against the first. With one side now installed, check all the fasteners to see that they are secure. Now, continue the installation on the opposite side.



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17. With one side now installed, check all the fasteners to see that they are secure. Now continue the installation on the opposite side.



18. Once the installation on both sides is complete, raise the rear of the vehicle, replace the wheels, remove the two jack stands, lower the vehicle, and remove the wheel chocks. The final step is to take your truck for a spin!



*Thank you for purchasing RoadActive Suspension products!*

INSTALLATION VIDEOS



SCAN ME

REGISTER WARRANTY



SCAN ME

**WARNING: DANGER OF MISUSE OF PRODUCT**

RoadActive Suspension products are intended for proper installation and use as described in the provided documentation and guidelines. Any misuse, improper installation, or modification of our products may result in personal injury or property damage. Consumers are responsible for adhering to recommended usage practices and seeking professional assistance if needed. RoadActive Suspension shall not be held liable for any personal injury, property damage, or any other losses arising from the misuse, improper installation, or modification of our products. The consumer's responsible for ensuring correct product usage, installation, and compliance with safety instructions. Any deviations from our guidelines may void warranties and release RoadActive Suspension from liability.

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