



ROADACTIVE SUSPENSION

FITTING INSTRUCTIONS FOR THE THE FOLLOWING KITS:

4611TD 4611TDHD



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READ BEFORE INSTALLING:

1. When installing RAS or making adjustments, the rear axle must be hanging free to maximize the arch of the leaf spring. If not using a lift, jack stands should be placed under the front leaf spring eye. To be sure, any support (lift or jack), should only be utilized by placing within an inch of, but should not be supporting axle or differential.



2. The gold threaded rod is threaded inside the spring for shipping purposes. You must unthread the gold rod so that the kit will lengthen.



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PAGE FOR INSTALL VIDEOS**

**ANY DEVIATION FROM THESE INSTRUCTIONS WILL VOID THE WARRANTY.
THIS KIT WILL NOT BE WARRANTED IF INSTALLED ON ANY VEHICLE USED
FOR RACING, SIMILAR ACTIVITIES, OR FITTED TO VEHICLES WHERE THE
REAR SUSPENSION HAS BEEN MODIFIED IN ANY WAY.**

1999-2021 Toyota Tundra

Follow steps 1-5 of the universal RAS install before completing these instructions.

1. On 1999-2021 Toyota Tundras, the shocks are located close to the leaf springs. To ensure the kit does not rub against the shocks, the flat head of the bolt must be facing the shock.



Universal RAS Install

Unless otherwise specified on the previous pages, follow the steps below for installation.

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.



2. Loosen all the rear wheel lug nuts with just one turn, but don't remove them at this stage.



3. Position a floor jack of (the correct capacity for your vehicle) under the differential housing.



4. 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.



5. With both jack stands now correctly positioned and safely supporting the rear of the vehicle, very slowly lower the floor jack checking that the pads on the stands are still in the correct position at all times. With the vehicle now well supported, continue lowering the jack until the jack just makes contact with the differential housing, then raise the pad of the jack about 1/2 inch only, as shown in the illustration. The floor jack will be used as an extra safety device. Before starting the installation, once again check that the rear of the vehicle is well supported. **Please see page 2 to determine which kit goes on what side to ensure the kit does not rub against your shocks.**



Universal RAS Install

Unless otherwise specified on previous pages, follow the steps below for installation.

6. 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.



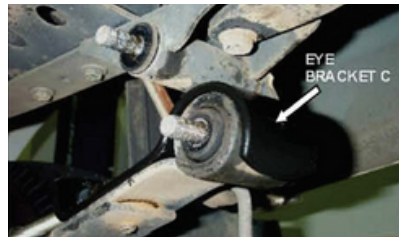
7. Remove the two nuts on the rear shackles but do not remove the two bolts.



8. Remove the one side of the shackle.



9. Position the eye bracket over the eye of the leaf spring and replace the side of the shackle that was removed. Secure the two nuts and repeat on the other side of the leaf spring.



10. The gold-threaded rod is screwed inside the tension spring approx 5 to 6 inches for shipping purposes. 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.



Universal RAS Install

Unless otherwise specified on previous pages, follow the steps below for installation.

11. The gold-threaded rod is screwed inside the tension spring approx 5 to 6 inches for shipping purposes. 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.



12. The axle connecting brackets have five holes on each side and come with a 12mm bolt, two washers, a spacer, and nyloc nut, located through the end holes in the bracket. The nyloc nut has only been turned on hand tight. Next remove the nut, bolt, spacer, and washers. The bracket should now hang aside the leaf spring pack and U bolts.



13. With the axle bracket now in position under the leaf springs, insert the connecting bolt and spacers. Make sure the flat head of the bolt is facing the shock as instructed on page 3.



14. Attach the nyloc nut and tighten. The bolt with the spacer must be located directly under the leaf spring.



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



Universal RAS Install

Unless otherwise specified on the previous pages, follow the steps below for installation.

16. Position the two nuts on the threaded rod as shown. For a standard duty kit, use a ratchet fitted 12mm socket on the head of the cap screw, and a 22mm wrench on the lock nuts closest to the eye bracket at the end of the threaded rod. For a heavy-duty kit, use a 14mm socket and a 24mm wrench. The two nuts come locked together. By holding the threaded rod stationary and turning the coil spring, the gap between the coils will start opening.



17. Use the white or black disc in the box to determine the tension setting of the coil spring. For improved handling and 25% additional load carrying 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 load carrying 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. This varies among vehicles. If you misplace the two discs, you can use a dime in replace of the white disc and nickel in replace of the black disc.



18. 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.



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



Universal RAS Install

Unless otherwise specified on the previous pages, follow the steps below for installation.

20. 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!



**DON'T FORGET TO REGISTER
YOUR WARRANTY**

