

## **FITTING INSTRUCTIONS FOR THE FOLLOWING KITS:**

3611 3611-HD 3611-S 3611-SHD 3611-Y 3611-YHD 3612-HD 3613T 3614 3614-HD

4515-R 4611 4611-HD 4611-TD 4611-TDHD 4617-T

HD = Heavy Duty, all other kits are Standard Duty.



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Please note: Pages 7-13 include specific vehicle information that is additional to the installation guidelines, please make sure you follow these instructions before proceeding.

## READ BEFORE INSTALLING:

1. When installing an RAS kit or adjusting, the rear axle must be hanging free to maximize the arch of the leaf spring. If not using a hoist (2 Post), Jack stands should be placed on the appropriate chassis lifting point (not spring). If installing with wheels fitted, tyres must have ground clearance.



2. All kits are assembled prior to shipping, so will need to be adjusted to length by adjusting the gold threaded rod, as shown in the image.



### Installation Guidelines

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 nuts with just one turn, but don't remove them at this stage. Some kits can be installed with the wheels fitted, however must have clearance from the ground for maximum spring arch.



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, position the stands under the manufacturers recommended rear lifting point (chassis), as illustrated. With the floor jack still under the differential, Remove the rear wheels. With the wheel nuts now loosened (if required).



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 in the correct position at all times. With the vehicle now well supported, continue lowering the jack until the jack contacts 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.



### Installation Guidelines

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. 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.



8. The axle connecting brackets have five holes on each side and come with the 12mm bolt, 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, and spacer. The bracket should now hang astride the leaf spring pack and U bolts.



9. With the axle bracket now in position under the leaf springs, insert the connecting bolt and spacer.



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



### Installation Guidelines

Follow the steps below for installation.

11. When fitting to some Ford vehicles where the U bolts are located around the axle and have a hold-down plate on top of the leaf springs, the axle connecting bracket must be located the same way as in the illustration on step 10 with the bolt and spacer directly under the leaf springs.



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



13. Position the two nuts on the threaded rod as shown. Then use a ratchet fitted with a 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. 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.



14. Use the white (25%) or black (40%) discs 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. Please note the gauge must pass through more than 80% of the coils to achieve required tension. A 10 cent piece is equivalent to 30%.



15. Jam one of the two nuts located in the centre of the threaded rod hard against the coil spring, then follow with the second nut and jam against the first.





### **Installation Guidelines**

Follow the steps below for installation.

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



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



With vehicles that are carrying consistent loads, such as fridges, toolboxes, drawers etc. If the vehicle is uneven left to right, the RAS kit can be adjusted to level the vehicle but must not exceed the 40% setting.

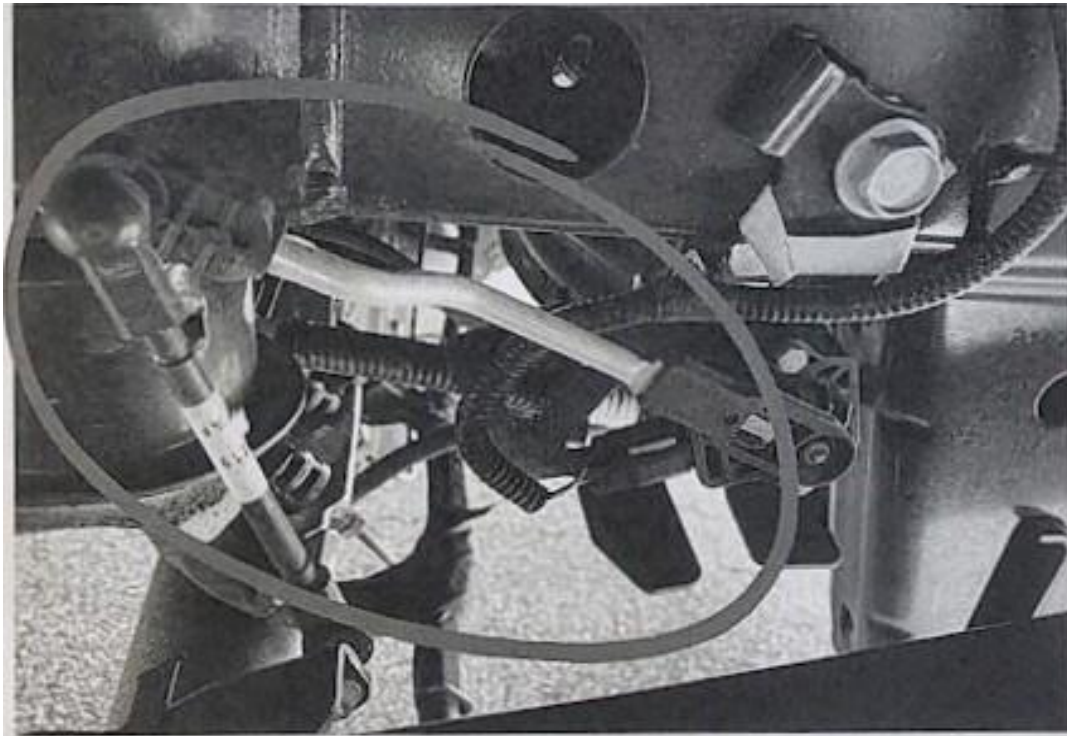
## 3611-Y & 3611-YHD F150 with Headlight leveling sensors

Additional installation guidelines.

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F150 comes equipped with a head light leveling sensors, you will need to use the second axle bracket hole when installing the kit to ensure there is not interference between the two. Some F150 will need to use the third hole from the end to clear the sensors.

Picture of head light leveling sensors for reference:



Bracket with bolt in the Second hole for reference:



# Bump Stop spacer installation for F150 2015- Current 4x4

Additional installation guidelines.

1. Remove the bolt holding the O/E bump stop using the appropriate size socket and extension (size may vary by year, 13mm –14mm).



2. Select the correct length bolt for your bump stop from the supplied bolts and drop it into the hexshaped hole on the new bump stop spacer. Align the two roll pins into the holes on the frame using the original O/E bolt and fasten them securely.



3. The word "WHEEL" with an arrow on the bump stop should be pointing towards the vehicle's wheel. With the bump stop spacer now in place you can reattach the original bump stop to the new bump stop spacer using the bolt and nut (14mm) supplied with the new RAS bump stop spacer.





## 3612-HD Constant Load Kits (Ranger, Amarok, D-Max, BT-50)

Additional installation guidelines.

When installing this kit, some minor modifications may be required, as there are so many variances of constant load springs on the market. This system has been approved by engineers in USA and Australia, ARB and Pedders.

Current brand constant load springs that have been fitted with RAS are OME/ ARB, Iron Man and PSR.

1. If you have a bolt on the rear as shown in the 1st image, this will need to be removed, and 2 short bolts installed as per second image.



2. You may also have a rear lower support leaf, this needs to be trimmed as it interferes with the RAS hook that goes over the eye of the leaf.

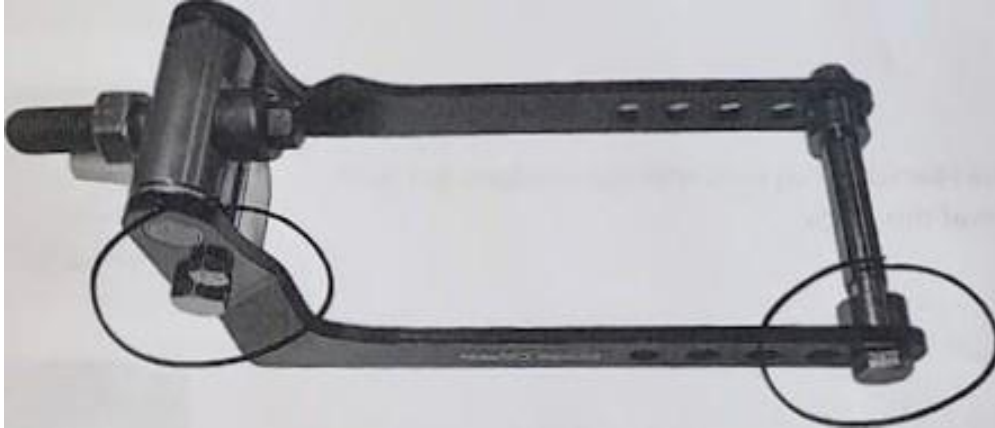


## 4611-TD & 4611-TDHD Toyota Hilux

Additional installation guidelines.

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On Toyota Hilux Kits with the axle under the leaf springs, 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.



## 4515-R Kits (Ranger, Amarok, D-Max, BT-50)

Additional installation guidelines.

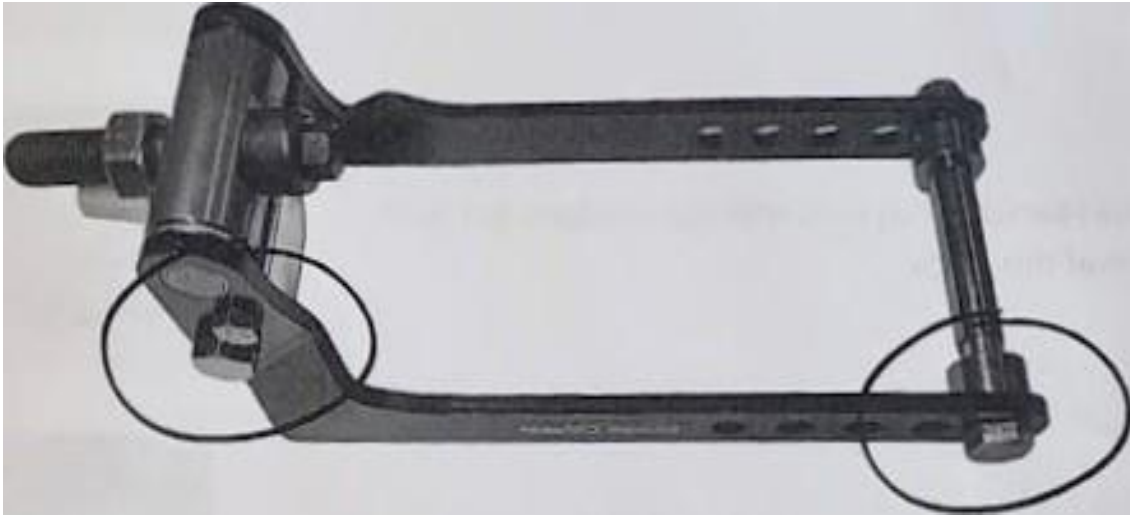
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Brake line clip supplied is not required on Australian Vehicles.

On some new Rangers, Amarok's, D-Max and BT-50s. 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.

Please note the anchor bolt at the front needs to be installed in the 3<sup>rd</sup> hole and coil wound in-front of leaf spring pack clamp, to avoid any interference.

(Ranger Specific) On the Right Hand side you will be required to remove the lower shocker bolt, to allow the hex head bolt to be fitted from the outside, with the nut on the inside.



## 3613-T & 3613-THD Dodge 1500, 2500 and 3500

Additional installation guidelines.

We suggest using a qualified installer for these vehicles.

1. There has been a design change on some of the rear swinging shackles for the leaf spring on your vehicle. If the shackle swings from the top down. You will need to drop the rear eye of the leaf spring to be able to fit the RAS hook over the rear eye of the leaf spring as shown in step #6 of the installation Guidelines.



2. Jack the vehicle up and place the jack stands under the frame closest to the front leaf spring connection. Once jack stands are in place using the trolley jack placed under the differential raise it up and remove the nut from the bolt of the rear eye of the leaf spring. Supporting the leaf spring, raise the leaf spring enough to relieve the tension on the bolt and remove the bolt.



3. Once the bolt is removed. Create enough space to allow the hook bracket to be installed over the rear eye of the leaf spring by raising up the frame. Once the hook is centred on the eye of the leaf spring. Lower the frame back into position and reinstall the nut and bolt through the shackle and eye of the leaf spring.

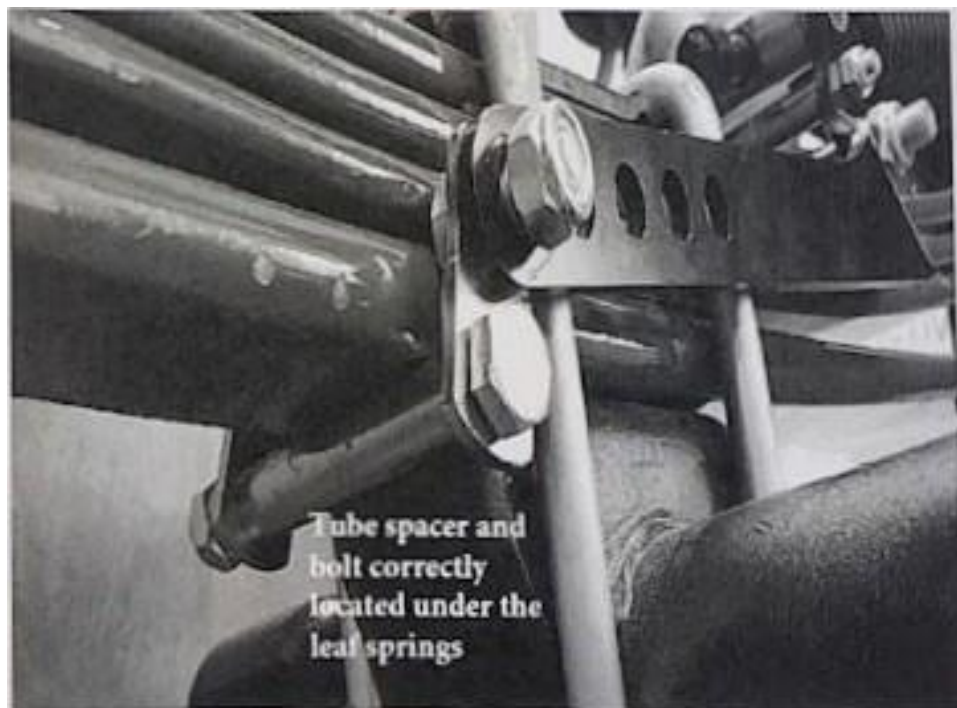


## 3611-SL & 3611-S Extension Brackets for F250, F350HD

Additional installation guidelines.

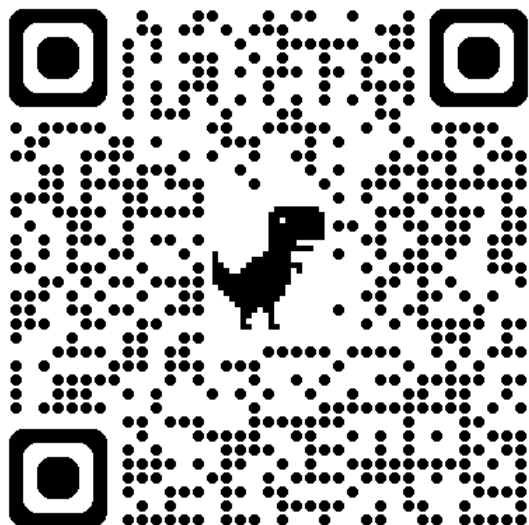
Only this specific kit will include extension brackets.

1. The extension brackets allow the axle brackets to be extended so that the tube spacer and bolt can now be located as shown. Follow the steps in the illustrations.

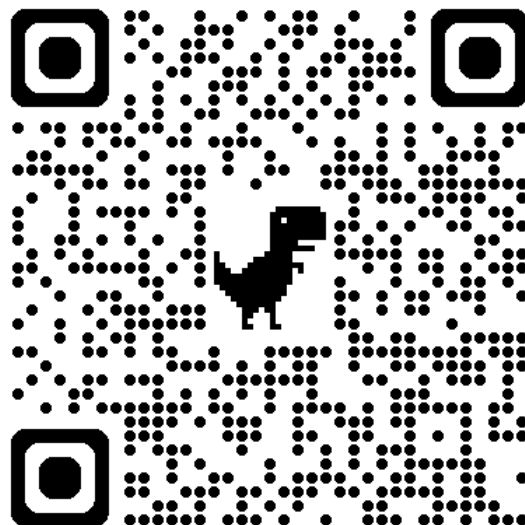




## Product Videos and Warranty Registration



Product Videos



Warranty Registration

Thank you for purchasing RoadActive Suspension products



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