



Titan/Frontier/Xterra Spring Upgrade Installation

Please note: For Xterra's, the spring goes UNDER the axle.

1: Start by blocking the front wheels with a suitable wheel chock.

2: Using a jack, raise the truck so that the tires are off the ground. Place the jack under the frame in front of the rear wheels. Support the vehicle with jack stands under the frame. You will be responsible for your own wellbeing while working under the truck, so be sure to have good stands and the knowledge to safely support the truck.

3: Remove the rear tires.

4: Unbolt the lower shock mounts and let the shocks hang freely.

5: Use a floor jack to support the rear axle, 2 jacks are better than one here (keeps the rear end more stable).

6: Loosen the u-bolts on both sides and lower the axle down slightly - **NOTE: BE SURE TO WATCH THE BRAKE LINES AND WIRES!!!** You may need to loosen the brackets that keep these lines in place.

7: Remove the bump stop from the top of the leaf pack, it will just come off

8: Remove the allen bolt from the overload leaf side supports

9: Loosen and remove the leaf pack through bolt, the leaves will want to separate, clamps can be used on the ends of the third leaf to hold the pack together.

10: Remove the thick over load leaf. This will not be re-used.

11: Remove the nut and the side retaining bolts on the new leaf pack and slide the new/ longer bolt through the old leaf pack and tighten the nut to bring all the leaves together. It may take some aligning of the leaves and some cuss words, but they will all line-up and eventually go together. **NOTE: The center hole in the upgrade pack is NOT centered and the longer end of the pack goes FORWARD, towards the front of the truck.**

12: Get the center bolt fairly tight, DO NOT OVER TIGHTEN THIS BOLT as it can easily strip. This bolt is just there to make the installation easier and to line the springs up. Once the leaf pack is snug, cut the new bolt with a hack saw or sawzall about 1/2" above the nut.

13: Install new retainer bolts, nuts, and sleeves on the side retainers and tighten.

14: Do other side.

15: After both sides have been completed, raise the axle back into its original position and reinstall the upper bumpstop and the u-bolts (about 80 ft-lbs) and the lower spring plate and wheels.

16: Lower the truck back down and reinstall the lower shock mounts.

17: Double check that all the nuts have been properly tightened and go for a test drive.

RETORQUE ALL NUTS, BOLTS, AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER

For technical assistance call 951-780-5331

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