



1. Put the car into gear or park and apply the hand brake, loosen the front wheel nuts on one side, raise the vehicle on a trolley or bottle jack under the axle and then support the vehicle with an axle stand under the chassis. It's easier and safer to do this job one side at a time.
2. Remove the front wheel.
3. Remove the plastic cover on the inner wheel arch and expose the top of the turret.
4. Undo the nut on the bottom of the shock absorber remove all bushes and washers.
5. Undo the 4 nuts securing the shock absorber turret to the chassis bracket then Pull the turret and shock absorber out through the hole in the inner wing.
6. Undo the nut on the top of the shock absorber and then pull out of the turret removing all bushes and washers.
7. Gently lower the axle on the jack, the axle will lower the spring away from the chassis and the spring will become loose. Once this happens stop lowering the axle. Take care not to stretch the brake lines.
8. Push the standard turret securing ring down out of the chassis mounting. There should be enough of a gap at the top above the spring now you have lowered the axle, if not the spring will need to be removed.
9. Fit the new Terrafirma turret securing ring up over the new Terrafirma dislocation cone and then both up into the chassis mounting.
10. Gently raise the axle back up using the jack and ensuring the spring relocates over the dislocation cone and then into the top chassis mount.
11. Remove one of the bolts that secure the spring bottom seat to the axle.
12. Re-use this bolt to secure the new spring retaining plate (the plates are shaped to go around the shock absorber) to the spring seat and the axle case on top of the bottom most coil of the spring but do not fully tighten.
13. Remove the second bolt, then slide the spring retaining plate across into place and then refit the second bolt and then tighten them both to the manufacturers torque setting. (It is easier to remove the bolts one at a time to ensure the spring seat remains correctly located).
14. Fit the new shock absorber in through the turret, with the new washers and bushes in the correct order, then tighten the top nut.
15. Drop the turret and shock absorber back through the hole in the inner wing, fit the washers and nuts and tighten down the turret onto the chassis bracket.
16. Fit the upper bottom washers and bush, before pulling the lower part of the shock down through the spring seat. Then fit the lower bottom washers and bush and the securing nut, Tighten the bottom securing nut.
17. Re-fit the plastic cover on the inner wheel arch.

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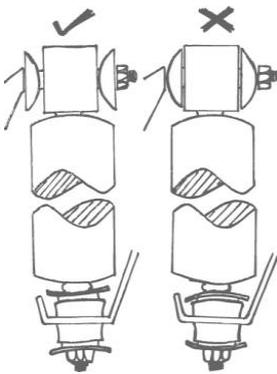


18. Refit the wheel, lower the car off of the axle stand and torque the wheel nuts correctly.
19. Repeat the procedure on the other side.
20. Put the car into gear or park and apply the hand brake, loosen the rear wheel nuts on one side, raise the vehicle on a trolley or bottle jack under the axle and then support the vehicle with an axle stand under the chassis. It's easier and safer to do this job one side at a time.
21. Remove the rear wheel
22. Undo the top shock absorber retaining nut and pull the shock absorber off of the chassis mounting pin and remove all washers.
23. Undo the nut on the bottom of the shock absorber remove all bushes and washers.
24. Undo the 2 bolts which hold the spring retaining plate in place.
25. Discard the standard spring retainer if fitted.
26. Gently lower the axle on the jack, the axle will lower the spring away from the chassis and the spring will become loose. Once this happens stop lowering the axle.
27. Place the lower cone part up underneath the upper spring chassis plate.
28. The upper retaining plate of the dislocation cone sits on top of the upper spring chassis plate.
29. Bolt the two plates together "sandwiching" the upper spring chassis plate between the two and tighten the bolts.
30. Re-use the bolts to secure the new spring retaining plate to the spring seat and the axle case on top of the bottom most coil of the spring and then tighten them both to the manufacturers torque setting.
31. Gently raise the axle back up using the jack and ensuring the spring relocates over the new dislocation cone and into the upper chassis mount.
32. Fit the new shock over the top chassis mounting, with the new washers and bushes in the correct order and the correct way around, the convex side of the curved washers must be against the rubber bush, and then tighten the top nut.
33. Fit the upper bottom washers and bush, before pulling the lower part of the shock absorber down through the axle mounting bracket \*. Then fit the lower bottom washers and bush and the securing nut, Tighten the bottom securing nut.
34. Refit the wheel, lower the car off of the axle stand and torque the wheel nuts correctly.
35. Repeat the procedure on the other side.

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- \*NOTE – For long travel (+2" and longer) shocks it is an advantage to remove the metal bush cups found on post 1994 Defenders and Discovery rear axles, this will allow unrestricted movement of the lower shock mount.
- Allowing the shock bush washers to contact the metal bush cup can cause premature shock failure.



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