

**TF234: TERRAFIRMA 2" PRO SPORT MAXI DISCLOCATION KIT****DEFENDER 110 / 130****FITTING INSTRUCTIONS**

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 new tubular turret, with the new washers and bushes in the correct order, then tighten the top nut.
15. Drop the new 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.

WARRANTY & DISCLAIMER - TerrafirMa products are warranted free from defects in materials and workmanship for a period of 12 months from the date of retail invoice. TerrafirMa does not warrant that the products manufactured or marketed by it comply with the laws of the country where those goods are purchased or used. It is the sole responsibility of the purchaser to ascertain whether products being purchased, or the fitting of those products to any other object, comply with local laws. This warranty covers structural defect and workmanship but does not cover finishes, labour charges for removal or refitting, freight costs, accident damage, misuse or abuse, damage due to incorrect or improper fitment or application, modified product, faulty design or consequential damage of any kind. Damage or defects caused by collision, alteration, improper installation, road hazards, adverse conditions or usage for any other purpose other than normal private usage are not covered by this warranty. TerrafirMa shall not be liable for any other claim relating to the use of the product and any indirect special or consequential damage or injury to any person, company or other entity. All claims must be accompanied by the original retail invoice and should be submitted to the supplying Allmakes 4x4/TerrafirMa distributor. This warranty covers only the replacement of the product or part concerned. The decision remains solely at the discretion of Allmakes Ltd. The information contained in this catalogue was correct at the time of going to press. Allmakes/TerrafirMa and its associated companies reserve the right to alter the range and any product specifications without notice. Always consult your Allmakes/TerrafirMa distributor for the latest product information and specifications. The TerrafirMa range of products is constantly being evaluated for enhancement and improvement to make sure the level of quality and performance is as expected.



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.
18. Lower the car so the axle stand takes most of the cars weight but leave the jack under the axle to support the axle's weight
19. Clean all 3 mountings nuts and bolts and treat with a penetrating fluid if necessary.
20. Undo and remove the rearmost (chassis end) nut and mounting bush.
21. Remove the split pin, then loosen and remove the nut and washer securing the track rod ball-joint to the swivel housing. Then remove the ball joint from the tapered hole on the rear of the swivel housing.
22. Slacken and remove the nuts and bolts retaining the radius arm to the axle, It is recommended that if the bolts are worn they should be replaced.
23. Drop the radius arm down and out of the axle brackets and then pull the back end forwards through the chassis bracket.
24. Take your new castor corrected radius arm with the new bushes you have fitted in the axle end, fit the first of the chassis end washers bushes and then push the arm through the chassis mount from the front.
25. Lift the axle end up into the brackets and re-fit the bolts and nuts loosely.
26. Re-connect the track rod ball joint to the tapered hole in the swivel housing, tighten up the nut to the correct torque setting and then fit a new split pin.
27. Slide the second, rear most mounting bush then the washer and nut on from the back side of the chassis mounting and tighten the nut to the correct torque setting.
28. Tighten the two axle end mounting bolts up to the correct torque setting.
29. Refit the wheel, lower the car off of the axle stand and torque the wheel nuts correctly.
30. Repeat the procedure on the other side.
31. 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.
32. Remove the rear wheel
33. Undo the top shock absorber retaining nut and pull the shock absorber off of the chassis mounting pin and remove all washers.

WARRANTY & DISCLAIMER - Terrafirma products are warranted free from defects in materials and workmanship for a period of 12 months from the date of retail invoice. Terrafirma does not warrant that the products manufactured or marketed by it comply with the laws of the country where those goods are purchased or used. It is the sole responsibility of the purchaser to ascertain whether products being purchased, or the fitting of those products to any other object, comply with local laws. This warranty covers structural defect and workmanship but does not cover finishes, labour charges for removal or refitting, freight costs, accident damage, misuse or abuse, damage due to incorrect or improper fitment or application, modified product, faulty design or consequential damage of any kind. Damage or defects caused by collision, alteration, improper installation, road hazards, adverse conditions or usage for any other purpose other than normal private usage are not covered by this warranty. Terrafirma shall not be liable for any other claim relating to the use of the product and any indirect special or consequential damage or injury to any person, company or other entity. All claims must be accompanied by the original retail invoice and should be submitted to the supplying Allmakes 4x4/Terrafirma distributor. This warranty covers only the replacement of the product or part concerned. The decision remains solely at the discretion of Allmakes Ltd. The information contained in this catalogue was correct at the time of going to press. Allmakes/Terrafirma and its associated companies reserve the right to alter the range and any product specifications without notice. Always consult your Allmakes/Terrafirma distributor for the latest product information and specifications. The Terrafirma range of products is constantly being evaluated for enhancement and improvement to make sure the level of quality and performance is as expected.



34. Undo the nut on the bottom of the shock absorber remove all bushes and washers
35. Undo the 2 bolts which hold the spring retaining plate in place.
36. Discard the standard spring retainer if fitted.
37. 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.
38. Place the lower cone part up underneath the upper spring chassis plate.
39. The upper retaining plate of the dislocation cone sits on top of the upper spring chassis plate.
40. Bolt the two plates together "sandwiching" the upper spring chassis plate between the two and tighten the bolts.
41. 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.
42. 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.
43. 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.
44. 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.
45. Lower the car so the axle stand takes most of the cars weight but leave the jack under the axle to support the axle's weight.
46. Clean all mounting nuts and bolts and treat with a penetrating fluid if necessary.
47. It is usually easier to remove the 3 smaller nuts and bolts that hold the front triangular bush to the chassis mounting that the arm in-turn bolts through.
48. Undo and remove the nut and bolt retaining the radius arm to the axle, it is recommended that if the bolt is worn it should be replaced.
49. Carefully drop the radius arm down and out of the axle bracket and then remove the arm complete with the front triangular bush back through the chassis bracket.
50. Hold the old arm securely in a vice or similar and remove the large nut on the front end and then remove the triangular bush.
51. Take your new cranked rear radius arm with the new bush you have fitted into the axle end, and place the triangular bush over the threaded front end re-fit the large nut but do not tighten fully.

WARRANTY & DISCLAIMER - Terrafirma products are warranted free from defects in materials and workmanship for a period of 12 months from the date of retail invoice. Terrafirma does not warrant that the products manufactured or marketed by it comply with the laws of the country where those goods are purchased or used. It is the sole responsibility of the purchaser to ascertain whether products being purchased, or the fitting of those products to any other object, comply with local laws. This warranty covers structural defect and workmanship but does not cover finishes, labour charges for removal or refitting, freight costs, accident damage, misuse or abuse, damage due to incorrect or improper fitment or application, modified product, faulty design or consequential damage of any kind. Damage or defects caused by collision, alteration, improper installation, road hazards, adverse conditions or usage for any other purpose other than normal private usage are not covered by this warranty. Terrafirma shall not be liable for any other claim relating to the use of the product and any indirect special or consequential damage or injury to any person, company or other entity. All claims must be accompanied by the original retail invoice and should be submitted to the supplying Allmakes 4x4/Terrafirma distributor. This warranty covers only the replacement of the product or part concerned. The decision remains solely at the discretion of Allmakes Ltd. The information contained in this catalogue was correct at the time of going to press. Allmakes/Terrafirma and its associated companies reserve the right to alter the range and any product specifications without notice. Always consult your Allmakes/Terrafirma distributor for the latest product information and specifications. The Terrafirma range of products is constantly being evaluated for enhancement and improvement to make sure the level of quality and performance is as expected.



52. Lift up into place through the chassis mounting and re-fit the 3 nuts and bolts through the triangular bush to the correct torque setting.
53. Lift the axle end up to the bracket and re-fit the bolt and nut to the correct torque setting.
54. Tighten the large nut at the chassis end to the correct torque setting.
55. Refit the wheel, lower the car off of the axle stand and torque the wheel nuts correctly.
56. Repeat the procedure on the other side.



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.

WARRANTY & DISCLAIMER - TerrafirMa products are warranted free from defects in materials and workmanship for a period of 12 months from the date of retail invoice. TerrafirMa does not warrant that the products manufactured or marketed by it comply with the laws of the country where those goods are purchased or used. It is the sole responsibility of the purchaser to ascertain whether products being purchased, or the fitting of those products to any other object, comply with local laws. This warranty covers structural defect and workmanship but does not cover finishes, labour charges for removal or refitting, freight costs, accident damage, misuse or abuse, damage due to incorrect or improper fitment or application, modified product, faulty design or consequential damage of any kind. Damage or defects caused by collision, alteration, improper installation, road hazards, adverse conditions or usage for any other purpose other than normal private usage are not covered by this warranty. TerrafirMa shall not be liable for any other claim relating to the use of the product and any indirect special or consequential damage or injury to any person, company or other entity. All claims must be accompanied by the original retail invoice and should be submitted to the supplying Allmakes 4x4/TerrafirMa distributor. This warranty covers only the replacement of the product or part concerned. The decision remains solely at the discretion of Allmakes Ltd. The information contained in this catalogue was correct at the time of going to press. Allmakes/TerrafirMa and its associated companies reserve the right to alter the range and any product specifications without notice. Always consult your Allmakes/TerrafirMa distributor for the latest product information and specifications. The TerrafirMa range of products is constantly being evaluated for enhancement and improvement to make sure the level of quality and performance is as expected.

TF233
90
D1/RRC