## **DIY - REAR SHOCKS**

- 1. Clean the shock to keep dirt and grime out of the shock during rebuild
- 2. Uninstall piston guard
- 3. Using a fine pic remove the hard plastic plug
- 4. Using a needle, bleed out the nitrogen from the bypass body (1-2 minutes)
- 5. Place shock in a vice to remove end cap
- 6. Using Tech Pin Spanner to remove end cap
  - a. You might need a pipe to act as a breaker bar as they can be stuck on. Don't be afraid as some need some SERIOUS TQ to break them free.
  - b. NOTE: Advise getting TWO grade 8 bolts to replace the small tips on the spanner. They are not deep enough and getting two bolts allows you to have a better bite on the cap.
- 7. Place piston and screw cap on clean towel for now
- 8. Carefully poor the old fluid into a bucket and making sure to hold the internal bypass tube in the shock.
  - a. Don't flip the shock upside down fast or the internal bypass will fly out and get oil everywhere
- 9. Pull the internal sleeve and place on a clean towel for now
- 10. PUSH down the end cap on the bypass side to make the snap ring more accessible
- 11. Remove the snap rig
- 12. Using a allen key to remove the screw and seal from end of bypass body
  - a. Using a small bolt, thread it into the end cap and pull the cap off
  - b. Place on clean towel in the order and orientation you take things off\*
- 13. Using a 1/4 by 20 thread bolt, screw it into the bottom valve and pull out
  - a. Here you will need a custom made tool

OR

- b. Use a bolt and zip ties as seen in the picture to pull the inner valve out enough from our experience.
- 14. Clean the shock pistons at this time
- 15. Clean the internal body of the shock
  - a. You will need to use a long wrench with a towel wrapped around it to get down into the body
- 16. Place the shock valve assembly into the vice and remove the end nut 19mm
- 17. CARFEULY remove the shim stack and place on a clean towel in order of removal and in the SAME orientation as you took it off.
- 18. Remove buffer ring
- 19. Remove shock end cap
- 20. CRITICAL step, using a small alan see if you can break loose the two bleeder screws on the screw cap
  - a. If they turn with no issue leave them cracked slightly so you are ready to bleed the air out
  - b. If they are locked in there you will need to order a new screw cap, and two bleeder screws and two ball valves. Total is about \$40ish with shipping for all those parts from FOX
- 21. Place seals in order they go onto the different parts
  - a. NOTE you will not use all the seals in the kit. The thinner seals we did not use
- 22. Shock end cap seals need to be placed in as order
  - a. Make sure to oil the seals before installing
  - b. White seal fist, pointed side up
  - c. Softer black sea, pointed side up
  - d. Hard black seal, pointed side up
  - e. Replace outer seal
  - f. Replace bottom seal

- g. NOTE: 2010 trucks have Raptor A shocks. These use a round lower O ring VS a square ring as in B versions.
- 23. Replace seal on inner valve
- 24. Replace seals on outer bypass body cap
- 25. Oil the shock piston shaft to make it easier to install the end cap
- 26. Place screw cap back onto the shock
  - a. NOTE: Make sure to rock this onto the shaft or you will bend the inner seal and damage it. You know you have a successful install if the screw cap moves up and down with not much effort.
- 27. Place buffer on to shock
- 28. Place shim stack carefully back on to the shock in the same orientation it was taken off
- 29. Reinstall nut and tighten so that about 1/2 of the thread is above the nut or so
- 30. Install the inner piston of the bypass body first
  - a. Oil the wear band and place on the valve and carefully push into the bypass body
  - b. Push the piston all the way down to the bottom of the tube but leave pull tool attached
- 31. Poor in shock fluid (25.5 onces 750 760ML) this volume includes over fill
- 32. Move the bypass valve up and down SLOWLY to work out any air bubbles
- 33. Pull the bypass valve up SLOWLY to bring more fluid over to the bypass body so it has a buffer, only a few MM.
- 34. Install bypass end cap by pushing it down past notch in tube
- 35. Install snap ring
- 36. Reinstall main body bypass tube
- 37. Reinstall and tighten shock screw cap on main piston
- 38. Charge shock to 240PSI and keep needle in shock to keep chamber charging
- 39. Bypass end cap will snap into place and fluid should begin to come out of bleeder screws
- 40. Let oil come out until there is no more air bubble
- 41. tighten screws
- 42. remove nitrogen needle
- 43. Reinstall piston guard