

Proudly made in the USA

Suspension MAXX

INSTALLATION INSTRUCTIONS

Part # SMX-FD04

For use with:

FORD 2004-UP F 150 series 4x4



Thank You for choosing SuspensionMAXX

for your vehicle. This kit is designed to add suspension travel and increase front ground

clearance. Specially designed tools and experience are required to complete the installation properly. These parts should only be installed by a Qualified Mechanic otherwise an unsafe vehicle and/ or personal injury may result. Consult manufactures service manual for proper torque specifications and procedures.

Instructions are supplied for the leveling kit installation only.

Safety is most important. Use safe working habits.

Notice:

This product combines with the coil-over strut suspension to increase suspension height up to 2.5" for a smoother ride. Enhances ride profile and is an economical alternative to expensive lift kits! This kit allows for up to 33" tires.

WARNING! This suspension system will enhance off road performance and increase ground clearance! **Larger** tires will increase vehicle roll center height. The vehicle will handle and respond to driver steering and braking differently from a stock factory equipped passenger car or truck. Extreme care must be used to prevent loss of control or vehicle rollover during abrupt maneuvers both on and off-road. Failure to operate this vehicle safely can result in vehicle damage, serious injury or death to the driver and passengers. **Always** wear your seat belts and **reduce** your speed, **avoid** sharp turns, **inclines** and **abrupt** maneuvers. Tread lightly, respect nature and enjoy the Off-Road Experience!

Help keep it available for future generations.

Thank You! Suspension MAXX Inc.

Lift Your **Attitude!**
Retain your factory ride



Again, thank you for your purchase! Enjoy your SuspensionMAXX leveling system!

Questions? E-mail us at tech@suspensionmaxx.com or call 1.888.MAXX.CAM



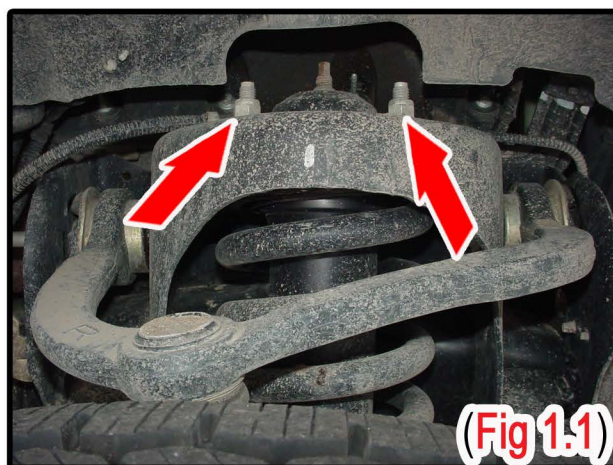
Our kits are designed to be easily installed and completely reversible to the factory supplied settings. These instructions are supplied for ease of installation. Correct procedures and safety is most important. Automotive experience

Tools required for installation:

1. SAFETY EQUIPMENT: Eye Protection, Gloves
2. Load Rated safety stands, floor jack and wheel chocks.
3. Metric / American tool socket set / wrench set / torque wrench 200 ft-lbs
4. Medium size pry bar / Brass Drift / Hammer
5. Approved Tie Rod Separator Tool

Installation Procedure

1. Place vehicle on solid level surface, set parking brake, block rear wheels.
2. Jack vehicle under frame and secure with load rated jack stands.
3. Mark wheel lug location, Remove front wheels.
4. Remove 3 upper strut mounting nuts (Fig 1.1)



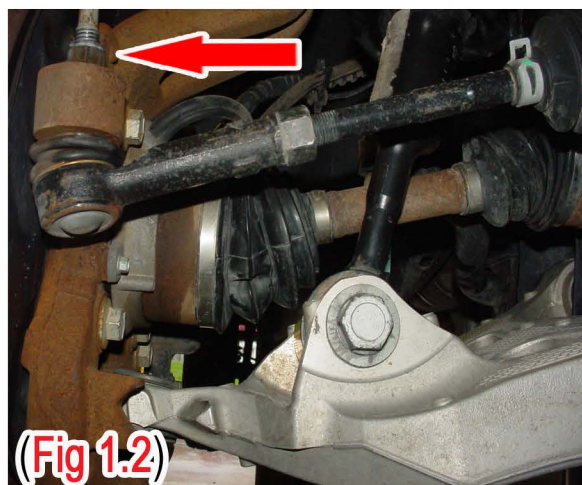
(Fig 1.1)

5. Remove lower sway bar nuts at control arm w/ 18mm socket wrench.

NOTICE: DO NOT spin studs with air wrench, Damage to link may occur!

6. Remove outer tie rod nuts with 21 mm wrench (Fig 1.2) at steering knuckle. Separate outer tie rod.

CAUTION: DO NOT damage joint seals.

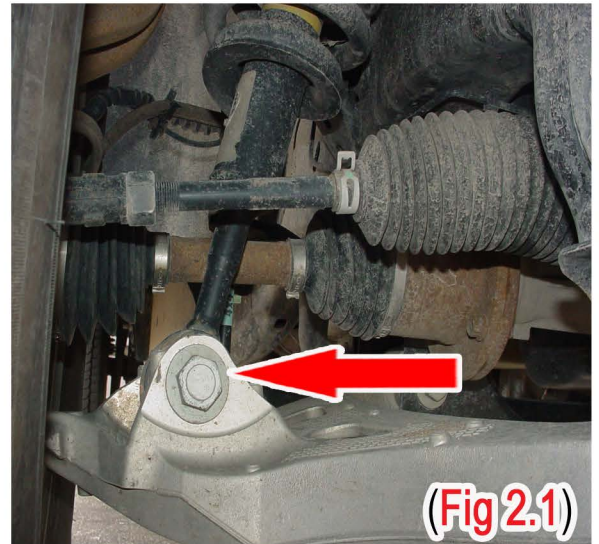


(Fig 1.2)



7. Remove lower strut mounting nut.
8. Remove lower mounting thru bolt (Fig 2.1)
9. Steer knuckle and hub assembly outward to increase axle boot clearance. Move boot inward by hand and glide strut past drive axle boot.

NOTICE: PINCH POINT! Close clearance use caution not to damage drive axle boots.



10. Use **CAUTION** when removing upper strut mounting nuts. *Strut may fall and damage steering and/or CV axle boots if not supported.*
11. Use **CAUTION** near drive axles. *Excessive force can damage CV drive boots. Gently lower strut assembly and guide out between upper A arm.*



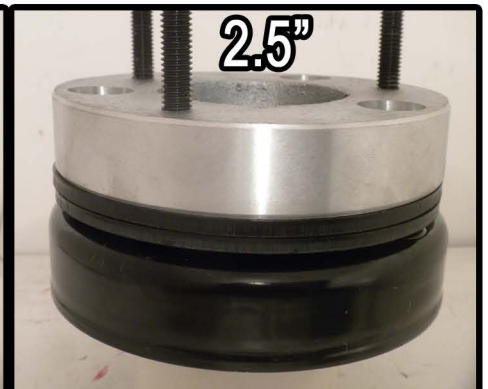
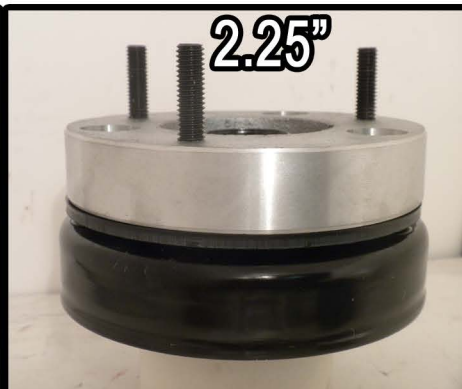
12. Mark alignment of strut top and lower mount for future reference (Strut top has offset stud placement)

13. Choose lift amount by adding black spacer shims to kit as needed:

MAXXStak only = 2.0"

MAXXStak + 1 SHIM = 2.25"

MAXXStak + 2 SHIMS = 2.5"



14. Place MAXX Stak Advanced Leveling Kit spacer on upper strut mount over mounting studs. Tighten nuts, mark original stud length and trim as needed (**MUST BE FLAT WITH MAXX STAK**)

15. Reinstall strut in vehicle aligning studs with top frame mount start top nuts supplied with kit. Rotate strut as needed to align with frame mount

16. Align lower strut on top of lower A-Arm, disconnecting upper ball joint may aid in reassembly. Support Lower Arm with floor jack. Use caution not to over extend CV boots (Extra force may be needed to get strut up and on A-Arm due to extended strut length assist use of pry bar) align mounting holes tighten lower bolts

17. Tighten upper strut nuts.

18. Reinstall front wheels torque to factory spec.

19. Perform front wheel alignment to maximize tire performance

**Wheel Alignment Specs
w/ Leveling Kit**

Camber... 0.0 Deg. +/- 0.5 Deg.

Caster..... 2.0 Deg. +/- 1.0 Deg.

Toe..... 1/8" +/- 1/16" (toe in)



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