

SuspensionMAXX 2004-2007 FORD F150 4X4

2 inch Front Leveling Kit Part # SMX-FD04

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 technician 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. Exercise safe working habits.

Tools required for installation: Safety Glasses and Related Safety Equipment.

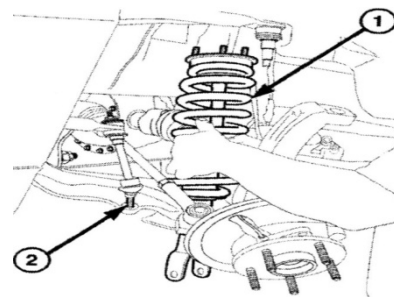
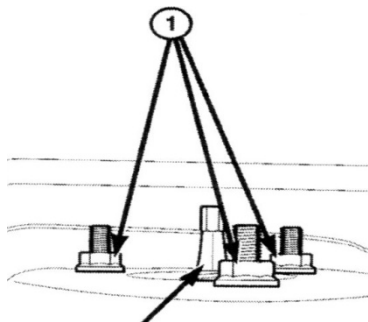
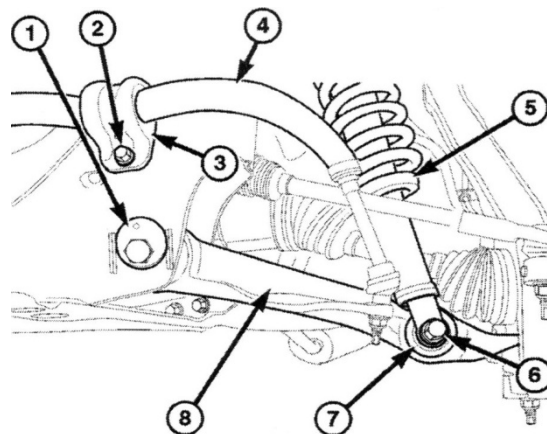
1. Load rated safety stands, floor jack and wheel chocks
2. Metric/ American tool socket set / wrench set / torque wrench 200 ft-lb
3. Medium size pry bar/ Brass drift /Hammer
4. Approved Tie Rod Separator Tool
5. Load rated strut spring compressor BR7200 recommended (this can be Subletted to a qualified part store or automotive repair facility)

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 lower sway bar nuts at control arm 18 mm socket and wrench

Notice Do Not spin studs with air wrench Damage to link may occur!

5. Remove sway bar frame mounting clamp bolts 4 - 15mm hex (2) Remove sway bar (4)
6. Remove outer tie rod nuts (21mm) at steering knuckle Separate outer tie rod. **Caution! Do Not Damage joint seals.**
7. Remove Lower strut mounting nut, Remove Lower mounting thru bolt (6) 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**)



8. **Use CAUTION when removing upper strut mounting nuts (1). STRUT MAY FALL AND DAMAGE STEERING AND /OR CV AXLE BOOTS IF NOT SUPPORTED**
9. **Remove 3 upper strut mounting nuts 15mm (1) Push CV boot inward by hand and guide lower strut past drive axle. Use Caution near Drive Axles, Excessive Force Can Damage CV Drive Boots.**
Gently lower strut assembly and guide out between upper A arm.

Strut Disassembly SMX-FD04

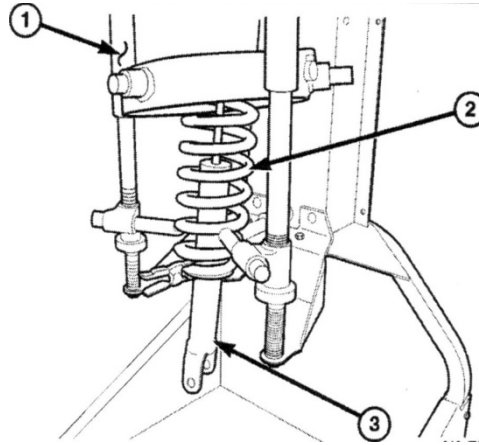
****DANGER** DO NOT REMOVE CENTER NUT**

“SPRING UNDER EXTREME PRESSURE”

CORRECTLY DESIGNED TOOLS RATED FOR THE SPRING LOAD REQUIRED FOR SAFE DISSASSEMBLY (SUB DISSASSEMBLY TO A PROFESSIONAL IF UNSURE OF PROCEEDURE)

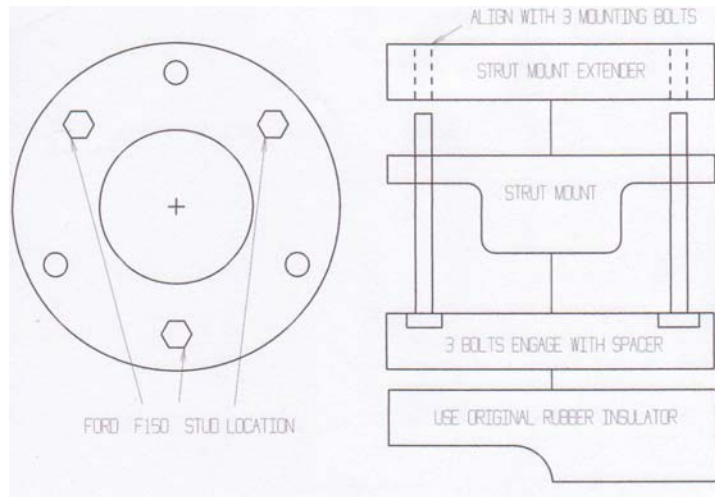
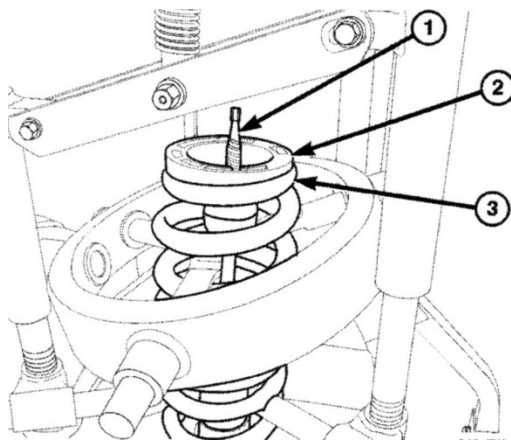
BRANICK 7200 STRUT COMPRESSOR RECOMENDED

10. MARK ALIGNMENT OF STRUT TOP AND LOWER MOUNT FOR FUTURE REFERENCE



11. (Mounting studs must remain Inline)

12. Compress strut coil spring with suitable strut compressor tools (Branick #7200 or equivalent) **CAUTION! DANGER SPRING UNDER EXTREEM PRESSURE REMOVAL OF TOP NUT PRIOR TO COMPRESSING SPRING CAN CAUSE SEVERE INJURY. ONLY AFTER SAFELY COMPRESSING SPRING SHOULD THE CENTER STRUT NUT BE REMOVED!**
13. Using hand tools remove shock center nut 15-18mm while holding shock shaft from rotating Do not spin shock shaft with power tools. Internal damage may result. Lift off Strut top mount.
14. Remove rubber insulator ring, using suitable tool press out 3 factory mounting studs. (some force may be required)
15. Insert supplied bolts thru strut mount threads upward, Install 3/4 inch spring spacer. Align the spacer to lock bolts from rotating during assembly **BOLTS DO NOT PASS THRU LOWER SPRING SPACER**
16. Re-Install rubber insulator ring as removed place strut mount on coil
17. Reassemble strut torque upper nut to spec. **ALIGNING UPPER & LOWER ALIGNMENT MARKS**
18. Install 3/4 inch thick Top Strut mount extender spacer over 3 replacement bolts .



Reinstall strut in vehicle aligning 3 studs with top frame mount start top nuts

19. Reinstall lower shock bolt **NUT REARWARD Torque to 200 ft lbs**
20. Tighten upper strut nuts. 40 ft lbs
21. Reconnect tie rod and sway bar and links torque attaching fasteners.
22. Reinstall front wheels torque to factory spec.
23. Perform front wheel alignment to maximize tire performance! Tech 1888-MAXX-CAM