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# Suspension MAXX

## INSTALLATION INSTRUCTIONS

Part # **SMX-10330 / SMX-10340**

For use with:

**FORD 2005-UP F250, F350, F450, F550 Series 4x4**



### Pre-installation checks:

1. Place vehicle on solid level surface.
2. Measure air pressure on all 4 tires, set to recommended tire pressure.
3. Measure ride height from floor to the center of the wheel well opening.

| PRE-MEASUREMENTS |  |            |  |
|------------------|--|------------|--|
| LEFT FRONT       |  | LEFT REAR  |  |
| RIGHT FRONT      |  | RIGHT REAR |  |

Thank you for choosing **SuspensionMAXX** for your vehicle. This kit is designed to add suspension travel and increase front ground clearance. Special 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 spring to increase suspension height up to 1" or up to 1.5" for a smoother ride. Enhances ride profile and is an economical alternative to expensive lift kits. This kit allows for up to 34" 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!

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## Tools required for installation:

1. Safety Glasses and Related Safety Equipment
2. Load-rated safety stands, floor jack, and wheel chocks
3. Metric/ American tool socket set / wrench set/ torque wrench (150 ft-lb)
4. Medium size pry bar/ Brass drift/ Hammer

## Installation Procedure

1. Place vehicle on solid level surface. Set parking brake. Block rear wheels.
2. Raise vehicle under frame and secure with load-rated jack stands. Front axle completely unloaded of vehicle weight.
3. Mark wheels lug location and remove front wheels.
4. Support front axle with load-rated floor jack for the duration of installation.
5. Remove ABS wire retainer clamp from radius arm on both sides. **CAUTION DO NOT Damage ABS cable or terminals** ( FIG 1.5 )
6. Remove sway bar attachment bolts from sway bar U clamps just ahead of the front axle. 15mm and 18mm tools
7. Remove shock absorber upper retaining nut. ( FIG 1.7 )  
**NOTICE: Prevent shock shaft from turning with open end wrench!**

1.  
**Lift Your  
Attitude!**  
Retain your factory ride

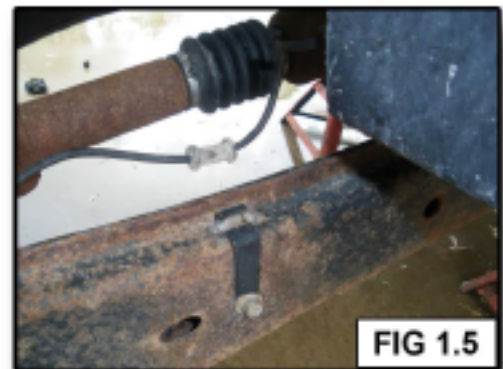


FIG 1.5



FIG 1.6

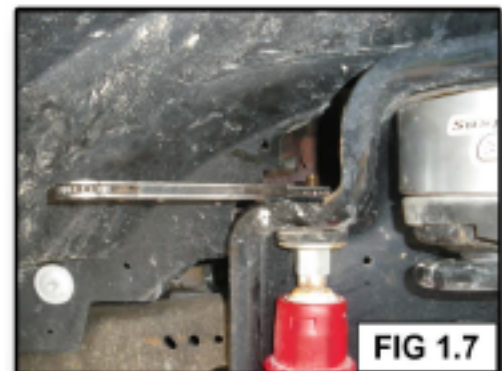


FIG 1.7

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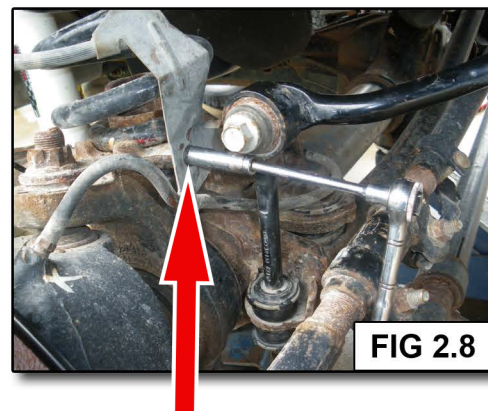
8. Remove 10MM bolt from Lower brake hose mounting bracket, allow slack /clearance to lower axle ( FIG 2.8 )

**NOTICE: Disconnecting hydraulic brake flex hose from caliper or steel supply line NOT required .**

9. Remove 10MM anchor bolt retaining brake hose bracket. DO NOT LOOSEN OR OPEN BRAKE HOSES.

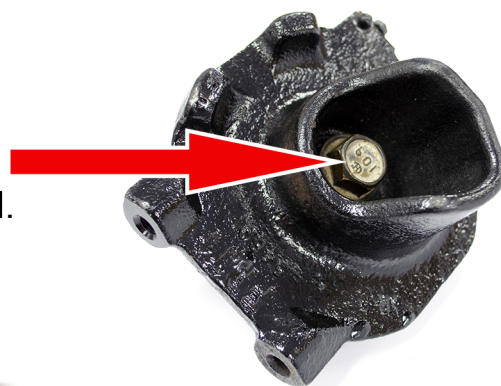
10. Lower jack under axle to relax front coil springs.

11. NOTE LOWER COIL SPRING END LOCATION AT LOWER SPRING SEAT. It is to be reinstalled in the same orientation. NOTE TOP COIL SPRING LOCATION. Mark frame, coil spring, and top coil insulator for future reference. Lower spring seat is marked front and outward if no reference was made earlier.



12. Remove front coil springs.

13. Using 18mm Socket remove lower coil mount fastener bolt. Raise and temporarily relocate coil mount to gain access to axle pad. USE CARE NOT TO TWIST ABS WIRES.



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## 3.

14. Verify axle pad is clean and free of debris, lightly file or wire brush axle pad to ensure proper fit.

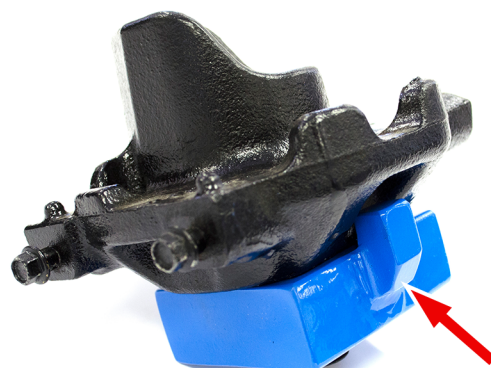
15. Locate SuspensionMAXX Leveling Lift spacer on axle pad with coil mount  
Anti-rotate locator tab inward and tab upward  
.NOTE THIS SIDE IN > ON LIFT SPACER.

16. Realign coil spring mount over SuspensionMAXX lift spacer. Aligning coil mount with coil mount anti-rotate tab.  
VERIFY ABS CABLES ARE FREE AND UNOBSTRUCTED.

17. Install Supplied 14MM bolt, washer thru coil mount thru SuspensionMAXX lift spacer. Carefully thread bolt into axle pad. VERIFY ABS CABLES ARE FREE AND UNOBSTRUCTED / NOT TWISTED. Torque to 140ft lbs. with 7/8 thin wall socket.

18. Reinstall coil springs as removed.  
VERIFY COIL END LOCATION MATCHES PREVIOUS MARKS.

19. Raise axle to hold springs in vehicle.  
**BE SURE NOT TO OVER LIFT TRUCK FROM JACK STANDS.**



ANTI-ROTATE TAB  
(THIS SIDE IN)

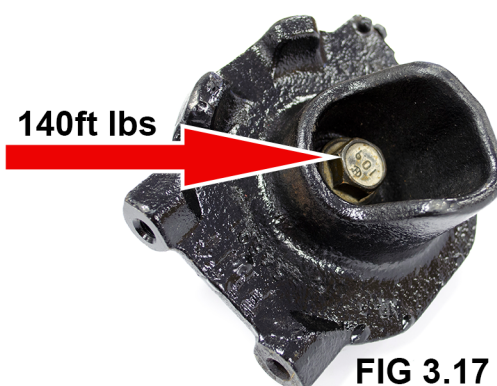


FIG 3.17

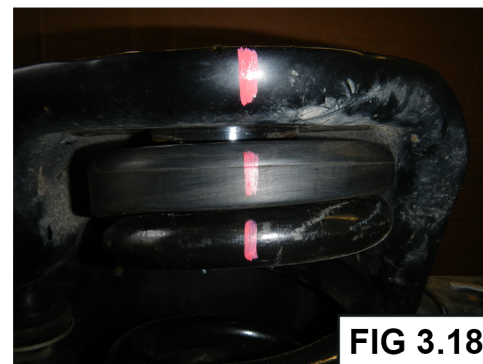


FIG 3.18



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4.

20. Shock absorber relocation spacer.  
Remove remaining bushing/ grommet and lower most washer from upper shock. Install supplied shock sleeve on shock shaft, reinstall original washer and Lower grommet. Guide shock into frame reinstall upper grommet and washer/ nut combo retainer tighten till some compression is achieved on grommets. Note fewer threads exposed are OK.



FIG 4.20

21. Reconnect brake hose bracket 10mm bolt, reconnect ABS clamps to radius beams.

22. reinstall sway bar frame U mounts to frame just ahead of the front axle.

23. verify all disassembly / reassembly points for proper placement.

24. Reinstall front wheels torque to manufactures spec.



FIG 4.21

25. Basic wheel alignment recommended for maximum tire performance.

## Alignment specs

Camber 0 Degree +/- .5 degree

Caster 2.0 Degrees +/- 1.0 degree (must be equal)

Total toe 1/8 inch in +/- 1/16 inch



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