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Suspension MAXX

INSTALLATION INSTRUCTIONS

Part # SMX-10214

For use with:
2014 Dodge 3500 4x4



Thank You for choosing SuspensionMAXX for your vehicle. This kit is designed to add suspension travel and increase front end 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 important. Use safe working habits.

Notice:

This product combines with the coil spring 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 can allow up to 35" tires with a moderate wheel.

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 Truck 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



Required Tools:

1. SAFETY EQUIPMENT: Eye protection, Gloves
2. Load Rated Floor Jack, Two Safety Stands, and Wheel Chocks
3. Metric Tool Set, Torque Wrench, Loctite Threadlocker for all fasteners
4. Medium Size Pry Bar

Procedure:

1. Jack and support front of vehicle under frame with load rated jack stands.
(Rearward of radius arms and mounts)
2. Place floor jack under front axle with light pressure during the removal process.
3. Remove front wheels.

The following procedures will be performed on both sides together:

4. Mark Coil Spring and Coil Insulators location on frame and axle so they can be removed and reinstalled in the same position. See Fig 1.1.
5. Remove both sway bar links from axle and sway bar.
6. Disconnect and remove both shock absorbers.
7. Reposition steel brake hose ends upward by hand. See Fig 1.2.
8. Check axle free-wheel disconnecting motor wire-harness, located behind the axle housing tube on the passenger side. Unlock wire connector and wire loom holder from the axle. See Fig 1.3.
9. Releasing pressure on the jack, lower axle downward slowly to relax coil springs. Use care and watch brake hoses and ABS cables for added tension.
10. Remove front coil springs. Keep the left spring on the left side, right spring on the right side.

DO NOT Exchange Coils from side to side!



11. Remove upper coil insulator, pulling downward and releasing location tab from frame.

STEPS 13-15 are done on the LEFT SIDE ONLY!

12. Remove the left front inner fender-liner. Use care to unlock inner pegs from liner locking fasteners. These can be reusable.
13. Loosen ABS Pump Motor Anchor Bolts with a 10mm wrench.

Note: These are rubber backed washer style.

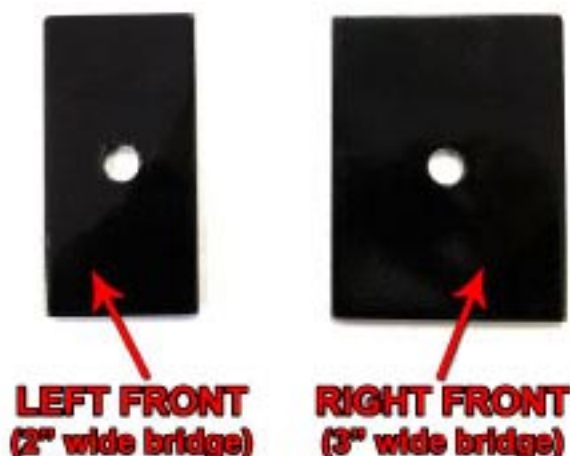
DO NOT Loosen or Remove Brake Lines!

14. Raise ABS pump motor gently allowing space to insert 12mm x 100mm bolt and 2" wide bridge plate on top of the frame coil mount..

Note: Bolt Threads Face Downward.

Installation will now continue for both sides.

15. Place the 12mm x 100mm bolt and 3" wide bridge plate on top of the frame coil mount on the right side.
16. Install black polymer shim and Suspension MAXX Lift Spacer up to frame and bolt into place with gold washer and nut. Torque to 25 ft. lbs.
17. On the drivers side, install pump motor insulator cushion over the head of the 3/4" hex bolt. See Fig 2.
18. Lower ABS Pump Motor back into mount and secure 10mm hex bolts.
19. Reinstall left fender liner.
20. Reinstall the front coil springs and coil insulators back into frame and axle, aligning all of the marks taken earlier.
21. Raise axle upward a small amount.
22. Reconnect motor wire harness.
23. Reconnect the sway-bar links.



24. The supplied shock kits can now be installed on the OEM shocks. See Fig 3.
- Remove shock hardware from the top of the stem mounted shock. This will be reused with the kit.
 - Install sleeve to top of shock.
 - Reinstall lower washer.
 - Install lower bushing as previously removed.
 - Insert washer and step nut - inside top grommet bushing
 - Re-install shock to the frame's upper mount. Tighten the top nut, compress bushing moderately. (*Caution: Do not over compress the bushings*)
25. Place both ends of shock absorbers back into the mounts. Tighten the bottom bolt. Tighten the top nut and washer to lightly compress the bushings and engage the nylock nut.
26. Reinstall Wheels
27. Perform Wheel Alignment to specifications stated below.

**Wheel Alignment Specs
w/ Leveling Kit**

Camber... 0.5 Deg. +/- 0.5 Deg.
Caster..... 2.0 Deg. +/- 1.0 Deg.
Left to Right must be equal +/- 0.25 Deg.
Toe..... 1/8" +/- 1/8" (toe in)



Fig 3.a



Fig 3.b



Fig 3.c



Fig 3.d



Fig 3.e



Fig 3.f



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