

Proudly made in the US

Suspension MAXX

INSTALLATION INSTRUCTIONS

Part # SMX-MC2, SMX-MC2HD



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.

DESCRIPTION	PART#	MAX TIRE DIA.
CHEVROLET / GMC FRONT KITS		
88-98 All Full-Size 4x4 with torsion bars 1st design '88-'00 8 bolt wheel "Old Body"	SMX-MC2	33"
99-07 Silverado/Sierra "Classic" 6 bolt wheel full-size 4x4 truck & SUV with torsion bars *Retains OE Shocks		
01-06 Avalanche/Tahoe(XL)/ Suburban/ Escalade/ Denali	SMX-MC2	33"
01-07 "classic" 8 bolt wheel HD series truck		
07-10 HD "New Body" T900 w/ torsion bars		
01-11 Chevy Suburban 8-bolt (3/4 ton) 2wd & 4wd includes "HD Shock Relocation Bracket"	SMX-MC2-HD	33"
HUMMER FRONT KITS		
03-Up Hummer H2 Leveling Kit		
Fits HD GM 8 Bolt wheel w/ torsion bars	SMX-MC2-HD	37"



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 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.



Suspension

MAXX.com
Leveling
Kits

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

Proudly made in the USA

Suspension MAXX

1

STRONGER

PROFESSIONAL INSTALLATION RECOMMENDED

Tools Required for Installation:

1. Torsion Bar Unloader Tool (SMX-MT or SMX-2011MT or OTC7822A)
2. Load-Rated Floor Jack
3. Load-Rated Jack Stands
4. Metric Socket Set (15mm, 18mm, 21mm)
5. Metric Wrenches (15mm, 18mm, 21mm)
6. 1" Socket for Unloader Tool
7. Anti-Seize
8. Tape Measure
9. Brass Drift and Hammer
10. Torque Wrench rated up to 100 ft/lbs.



PART# SMX - MT



#SMX - 2011MT

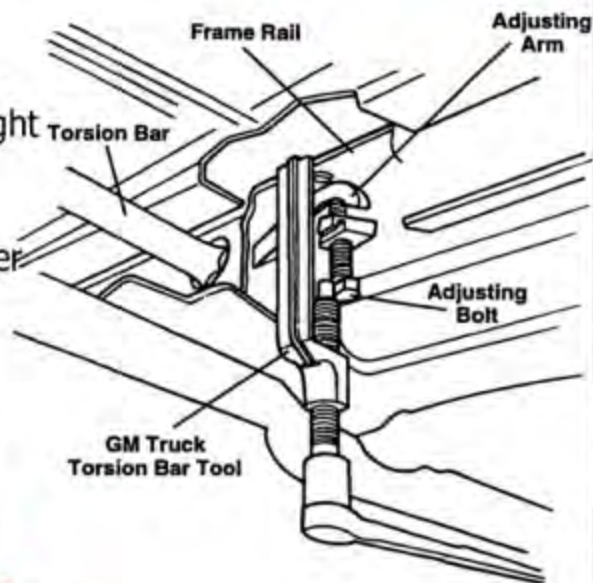
PART 1: REMOVAL

1. Park vehicle on level surface.
2. Block rear wheels
3. Using load-rated floor jack and stands, raise and safely support vehicle under certified frame lift points and remove front wheels.
4. Using specified torsion bar unloader tool, increase tension on torsion bar adjusting lever, remove height adjusting bolt and horizontal adjusting nut when unloaded.
5. Slowly relieve torsion bar tension. Remove unloader tool.
6. Slide torsion bar forward, disengaging hex from lever.

CAUTION: Disengaged lever can fall from vehicle and cause injury.

NOTICE: Torsion bar may be frozen in lever, added force may be required for disassembly.

2011 T-MAXX



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

Proudly made in the USA

Suspension MAXX

2


PART 2: Shock Kit/Bracket Installation

SMX-MC2 Shock Kit:

NOTE: Sleeve is NOT required for lowered or Auto-Ride applications.

1. Support lower control arm with floor jack.
2. Remove top nut from shock using 15mm wrench.
3. Remove upper washer and rubber bushing.
4. Push top of shock downward below the frame mount and remove lower bushing and washer.
5. Install spacer sleeve onto shock.
6. Reinstall lower washer and bushing.
7. Raise top of shock back through frame mount.
8. Reinstall upper bushing, washer, and nut.
9. Tighten top nut only until rubber bushings compress. DO NOT overtighten.
10. Repeat steps 1-9 on other side of vehicle.

SMX-MC2HD Shock Brackets:

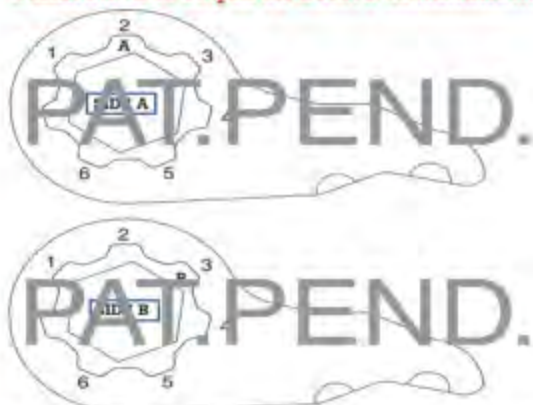
1. Support lower control arm with floor jack.
2. Locate lower shock bracket and remove lower mounting thru bolt on bottom of shock.
3. Remove the two shock bracket mounting bolts w/ 15mm socket and remove OEM shock bracket from lower control arm.
4. Install HD Shock Bracket supplied with the kit. 
5. Tighten the bracket mounting bolts to 35 ft/lbs.
6. Reinstall bottom of shock in bracket and lower thru bolt. Tighten to 70 - 80 ft/lbs.
7. Repeat steps 1-6 on other side of vehicle.



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

PART 3 CALIBRATION:

Calibration is required before installation.



- To calibrate match A or B stamped on the internal hub with the appropriate numbered outer position.
- Apply Anti-seize on gear tooth area to ease future disassembly.
- Install hub alignment clip. (Only 1 supplied)
- Reinstall MAXXCAM 2 in vehicle.
- Remove hub alignment clip. (Discard not required)
- Adjust suspension ride height within specified range.

Actual measurements may vary due to initial starting position, load and bar fatigue.

Silverado & Sierra

'99-'07 6 Bolt K1500 & Z71 B7 -2.5in Lower A3 +.5in B2 +1.2in	'01-'08 8 Bolt inc. HD K2500 3500 B6 -2.5in Lower B7 -.5in Lower A2 +.7in with Auto-Ride A4 +2.0in with Auto-Ride B1 +1.7in B3 +2.7in
--	---

□ Indicates maximum positive calibration recommended with most lift kits

88-98 All full-size 4x4 trucks with torsion bars 1st design
94-00 full-size SUV 4x4 with torsion bars 1st design
88-00 8 bolt wheel "Old Body"

B2 + 1.5 to 2.0 in (Shock sleeve not used)

Record position for reference

Right _____ Left _____

Installed _____ Mileage _____

This kit adds suspension travel only and will not add load carrying capacity to the suspension system.

DO NOT OVERLOAD

This kit can be over calibrated. Over adjustment of the torsion bar is not recommended!

NOTICE ALL POSITIONS MAY NOT BE USED IN SOME APPLICATIONS

PART 4 INSTALLATION:

3

1. Inspect torsion bars, crossmember support for bends, cracks, rust or damage. Check adjusting bolts and nuts for damage, rust or stripped threads. Replace if necessary.
2. Calibrate **MAXX** Cam 2 as needed to compensate for torsion bar sag and fatigue. SEE CALIBRATION INSTRUCTIONS ON THE LEFT.
3. Install **MAXX** Cam 2 into crossmember, slide torsion bar rearward fully engaging torsion bar hex in **MAXX** Cam 2.
4. Reinstall torsion bar unloader tool (Fig 1.1) increase tension on torsion bar unloader tool as required to reinsert horizontal adjusting nut. **NOTICE INCREASED PRESSURE REQUIRED! USE EXTREME CAUTION!** Install adjusting bolt. Relieve tension onto adjuster bolt. Remove unloader tool.



Fig 1.1

5. Check and adjust ride height and upper control arm gap.

Over adjustment of the torsion bars not recommended.

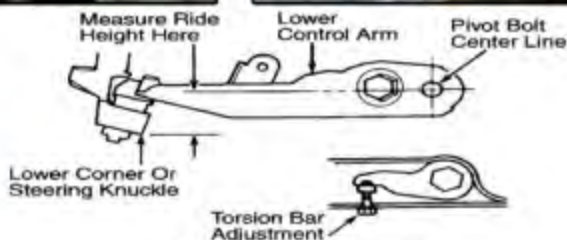
NOTE: When checking upper control arm gap, vehicle **MUST** be on level surface.

6. Check and adjust wheel alignment.

6-Bolt Upper Control Arm Gap



8-Bolt Upper Control Arm Gap



Ride Height Specifications

Application	In. (mm)
4WD 1500/2500/3500	4.4-4.8 (111.76-121.92)

Wheel Alignment Specs w/ Leveling Kit

Camber 0.0 Deg. +/- 0.5 Deg.

Caster 2.0 Deg. +/- 1.0 Deg.

(Left to Right must be equal +/- 0.25 Deg.)

Total Toe 1/8 In. +/- 1/16 In.