



## INSTALLATION INSTRUCTIONS

**PART#: SMX-11HDUCA**

**FITS: Chevrolet/GMC**

**•2011-2018 and Up 2500HD/3500HD**

Thank you for choosing SuspensionMaxx for your vehicle. This kit is designed to add suspension travel and increase front and 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 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.

### 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 belt 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!  
SuspensionMAXX Inc.

**NOTE:** This kit is designed to work with MAXXCam 3, 5, and 7 Kits only



## INSTRUCTIONS

*SuspensionMAXX 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. Automotive experience recommended.*

### VIDEO INSTRUCTIONS

[https://youtu.be/YNHU\\_6CK5gs](https://youtu.be/YNHU_6CK5gs)



*Again, Thank you for your purchase! Enjoy your SuspensionMAXX leveling system!*

**Questions? E-mail us at [tech@suspensionmaxx.com](mailto:tech@suspensionmaxx.com) or call 1.888.629.9226**

## PRELIMINARY STEPS

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.

## STEP 1 - REMOVE SHOCK ABSORBERS

1. Remove shock absorber by unbolting upper and lower shock mounts.

## STEP 2 - DIFFERENTIAL LOWERING SPACERS

1. Remove skid plates to better access differential support mounting locations.
2. Lightly jack and support the differential during the following steps
3. Loosen the passenger side mounting bolts. Do not remove. This will aid in installation of spacers.
4. Remove driver side bolts and remove differential cross member cradle. **FIG. 2-1**
5. Differential case will require slight modification to clear frame at the lowered height.



FIG. 2-1

**NOTE:** For best results install with MAXXCam Leveling kits kits and use included hardware.

6. Use Die grinder to remove excess material around mounts. **FIG. 2-2**



FIG. 2-2A

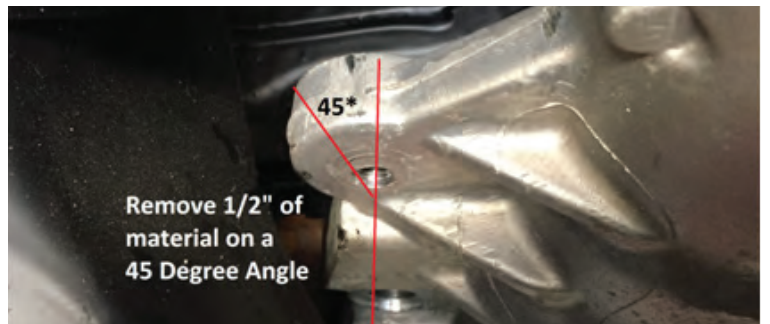


FIG. 2-2B

FIG. 2-2B

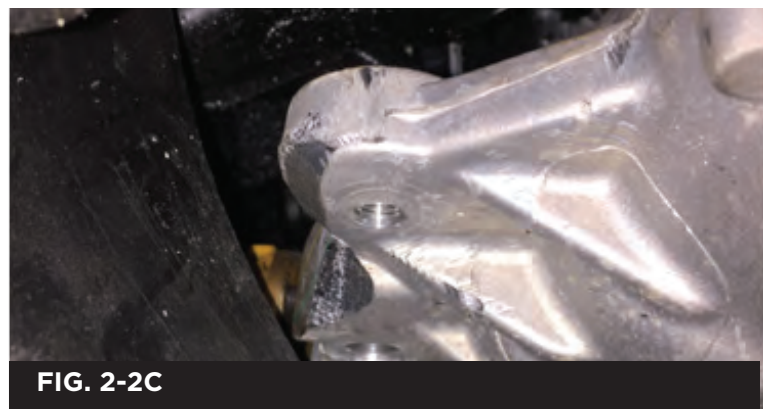


FIG. 2-2C



FIG. 2-2D

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- Align supplied spacers as shown in **FIG. 2-1**
- Reinstall Mounts with supplied bolts. **FIG. 2-3**



**FIG. 2-3**

- Install Passenger side differential spacer. Reuse stock hardware on Passenger side See **FIG. 2-4 & 2-5**
- Torque mounting nuts to 80Ft LBS.
- Install four 1" Diameter spacer on skid plate, reuse hardware. **FIG. 2-6**

**FIG. 2-4**



**FIG. 2-5**

**NOTE:** Use 7/16" gold washers to lower skid plate mounting position. **FIG. 2-6**



**FIG. 2-6**

### STEP 3 - INSTALL UPPER CONTROL ARMS

**NOTE:** Control Arms have a left (Driver Side) and Right (Passenger Side) Designation.\*\*\* See **FIG. 3-1 & 3-2**



**FIG. 3-1**



**FIG. 3-2**

- Loosen ball joint nut until finger tight.
- Strike knuckle with ballpeen hammer to separate upper ball joint taper. **Do not use pickle fork. Do not strike control arm.**
- Support knuckle to be sure to the inner axle joint does not become dislodged.
- Remove upper control arm Cam bolts. You will need to reference original cam bolt location. Helpful hint relocate cam washers to original factory placement.
- Torque upper Cam bolts to 150-170 Ft. LBS.
- Insert ball joint tapered stud to knuckle. Torque Castle nut to 50 Ft LBS Continue to tighten to next available slot. **(NEVER back off the slotted nut to achieve alignment with the hole in the stud.)** Install and spread cotter pin.
- Reinstall shock absorber with new studs and spacers. **FIG. 3-3**



**FIG. 3-3**

- Lightly grease control Arms **4-5 pumps or until boot is inflated.** **FIG. 3-4**
- Install tires and wheels.



**FIG. 3-4**

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10. Align Vehicle to specifications listed below.

**NOTE:** You now have greaseable upper ball joints, located underneath the washer and dust grommet. When reinstalling the dust grommet and washer, after greasing the ball joint. Carefully tighten acorn nut till snug. Do not over tighten.



FIG. 3-5



FIG. 3-6

### ALIGNMENT SPECS

**CASTER:** 2.7° up to 3.2° Must be equal within .25°

**CAMBER:** 0.2° +/- 0.2° Equal side to side

**TOTAL TOE:** 3/32" +/- 1/32"

**PREFERRED RIDE HEIGHT: 27.25-27.5"**

(Wheel Center Line from hub to bottom of fender well) At curb height

### PREFERRED TIRE SIZES

- Factory or 9" Positive Wheel
- 295/70R18
- 285/75R18
- 295/65R20
- 275/65R20



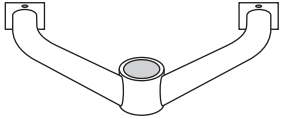


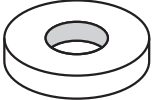



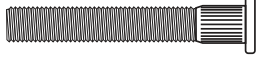


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# SMX-11HDUCA STAGE 1

#	PART NAME	GRAPHIC FORM	QTY
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## UPPER CONTROL ARM PARTS

A	Upper Control Arm Frame		2PC
B	"Bowtie" Differential Spacer		1PC
C	"M" Differential Spacer		1PC
D	"Round" Differential Spacer		1PC
E	Differential Spacer Extension Bolt		2PC
F	7/16 inch Differential Washer		2PC
G	Extra Heavy Skid Plate Spacer		4 PC
H	Splined Shock Absorber Studs		4PC
I	Shock Extension Spacers		4PC
J	12mm Strut Stud Lock Nuts		4PC