



# 2011 - 2019 GM 2500HD / 3500HD 4WD 3"- 3.5" Suspension Lift Installation Instructions

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### REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Wrenches & Sockets
- Hammer
- Grease Gun
- Torsion Bar Tool
- Floor Jack
- Jack Stands
- Measuring Tape
- Torque Wrench



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. Affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to the disassembly of the vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed, which makes the difference more visible. Using a measuring tape, measure the front & rear of the vehicle (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: \_\_\_\_\_ Passenger Side Front: \_\_\_\_\_

Driver Side Rear: \_\_\_\_\_ Passenger Side Rear: \_\_\_\_\_

### Important Notes:

- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local GM dealer or an authorized dealer for details.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

## Component Box Breakdown:

### Part #: C11350PB / C11350PH / C11350PM / C11350PN

Item #	Description	Qty	Item #	Description	Qty
GM1123UCA-L	DRIVER UPPER A-ARM	1	M9517	MONOTUBE SHOCK	2
GM1123UCA-R	PASSENGER UPPER A-ARM	1		(Included With C11350PM)	
H-BOX C11350P	HDWR BOX: C11350P KIT	1	N8017	NITRO SHOCK W/RED BOOT	2
B8517	BLACK MAX SHOCK W/BLK BOOT	2		(Included With C11350PN)	
	(Included With C11350PB)				
H7017	HYDRO SHOCK W/RED BOOT	2			
	(Included With C11350PH)				

## Hardware Box Breakdown:

### Part # H-BOX C11350P

Item #	Description	Qty	Item #	Description	Qty
C115KE-S	TORSION KEY	2	HB-GM11DS	HDWR BAG: DIFF SPACERS	1
RB27	REAR BLOCK	2	HB-GM11SE	HDWR BAG: SHOCK EXT	1
58X318X1312U	5/8 X 3 1/8 X 13 1/2 SQ U-BOLT	4	I-C11350P	INST SHEET: C11350P	1
HB-58	HDWR BAG: 5/8 FINE LOCK NUT	1			

## Hardware Bag Breakdown:

### Part # HB-58

Item #	Description	Qty
58FTN	5/8 FINE THREAD LOCK NUT	8

### Part # HB-GM11DS

Item #	Description	Qty	Item #	Description	Qty
GM1123DS-S	FRONT DIFFERENTIAL SPACER	4	916SAEW	9/16 SAE WASHER	8
14X130MMB	14MM X 130MM METRIC BOLT	4	14MMN	14MM METRIC N/I LOCK NUT	4

### Part # HB-GM11SE

Item #	Description	Qty	Item #	Description	Qty
GM11SE-S	FRONT SHOCK EXTENSION	2	12SAEW	1/2 SAE WASHER	4
12X70MMB	12MM X 70MM METRIC BOLT	4	12MMN	12MM METRIC N/I LOCK NUT	4

## Front Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle & support the frame of the vehicle securely using jack stands.
3. Remove the front tires / wheels using a 22mm socket. (See Photo # 1)

**Note:** A torsion bar puller tool is required for the safe removal / installation of the OEM torsion bars. A torsion bar puller tool can be purchased from a GM dealer or most auto part stores.

4. Remove the OEM front skid plates located in front & under the front differential using a 15mm socket. (See Photo # 2)

**Warning:** Be extremely careful when loading or unloading the OEM torsion bars, there is a tremendous amount of stored energy (load pressure) in the OEM torsion bars. Keep your hands & body clear of the OEM adjuster arm assembly & torsion bar puller tool in case anything slips or breaks.

5. Locate the OEM torsion bar adjuster bolts on the bottom of the OEM torsion bar cross member, measure & record the length of each OEM torsion bar adjusting bolt that is exposed. Apply a small amount of lubricating grease to the torsion bar puller threads & the torsion bar puller shaft-to-adjuster arm contact point. Position the torsion bar puller & load adjuster arm until each OEM adjuster nut can be removed from the OEM torsion bar cross member using a 21mm socket. (See Photo # 3) With the OEM torsion bars unloaded, slide forward into each OEM lower A-arm & remove the OEM torsion keys.  
**Note:** If an OEM torsion bar seems lodged, use a hammer & punch through the hole in back of the OEM torsion bar cross member to dislodge.

6. Install the new Skyjacker torsion keys using the OEM hardware & a 21mm socket / wrench. **Note:** Install each OEM adjuster bolt to the same length as OEM when removed in Step # 5.

7. While supporting the front differential, remove the front differential mount bolts using a 21mm socket / wrench. (See Photo # 4)



8. Slightly lower the front differential & install the new Skyjacker front differential lowering spacers between the front differential mounts & the frame using the supplied 14mm x 130mm bolts, washers, nuts, & a 22mm socket / wrench. (See Photo # 5)



9. Install the OEM front skid plates using a 15mm socket. (See Photo # 2)

10. Remove the OEM front shocks using a 21mm socket. (See Photo # 6)



11. While supporting the OEM steering knuckles, disconnect the OEM upper A-arms from the OEM steering knuckles using a 18mm socket / wrench. (See Photo # 7) **Note:** It may be necessary to strike the OEM steering knuckles to dislodge the OEM ball joints. Be careful not to damage the OEM ball joints.

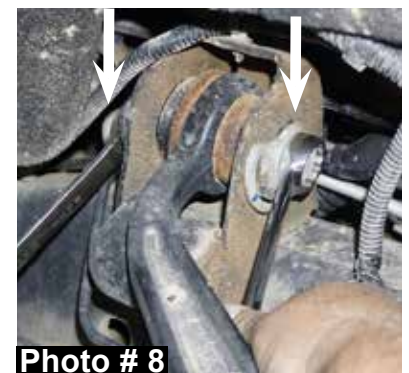
12. Mark the location of the OEM upper A-arm alignment cams & remove the OEM upper A-arms using a 24mm socket / wrench. (See Photo # 8)

13. Install the new Skyjacker upper A-arms & align the location of the OEM upper A-arm alignment cams using the OEM hardware & a 24mm socket / wrench. Do not fully tighten at this time. (See Photo # 9) **Note:** The labeled Part # GM1123UCA-L is the driver side upper A-arm & Part # GM1123UCA-R is the passenger side upper A-arm.



14. While supporting the OEM steering knuckles, connect the new Skyjacker upper A-arms to the OEM steering knuckles & fully tighten all upper A-arm & ball joint hardware using the supplied cotter pins, nuts, OEM hardware, & a 18mm & 24mm socket / wrench. (See Photo # 10)

15. Grease the new Skyjacker upper A-arm ball joints using a grease gun.



16. Remove the studs from the OEM front shocks using a hammer. (See Photo # 11)

17. Install the new Skyjacker front shock extension brackets to the OEM front shocks using the supplied 12mm x 70mm bolts. (See Photo # 12)

18. Install the OEM front shocks using the supplied 1/2" washers, 12mm nuts, lower OEM hardware, a 19mm socket / wrench, & 21mm socket / wrench. (See Photo # 13)

19. Install the front tires / wheels using a 22mm socket & lower the front of the vehicle to the ground.

### **Rear Installation:**

1. Block the front tires / wheels, raise the rear of the vehicle, & support the frame of the vehicle securely using jack stands.

2. Remove the rear tires / wheels using a 22mm socket.

3. Disconnect the OEM ABS lines from the rear differential.

4. Support the rear differential & remove the OEM rear shocks using a 21mm socket / wrench. (See Photo # 14)

5. Remove the OEM U-bolts using a 21mm socket / wrench. (See Photo # 15)

6. Install the new Skyjacker rear lift blocks with the taller end of the new rear lift blocks toward the rear of the vehicle.

7. Install the new Skyjacker U-bolts using the supplied 5/8" nuts & a 1 1/6" socket / wrench.

8. Install the new Skyjacker rear shocks using the OEM hardware & a 21mm socket / wrench.

9. Connect the OEM ABS lines to the rear differential.

10. Install the rear tires / wheels using a 22mm socket & lower the rear of the vehicle to the ground.



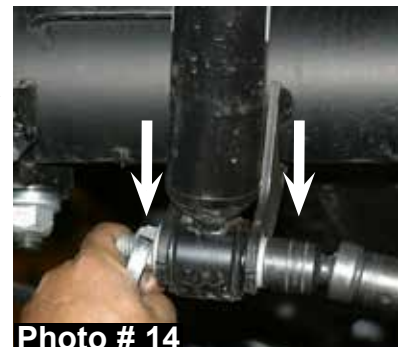
**Photo # 11**



**Photo # 12**



**Photo # 13**



**Photo # 14**



**Photo # 15**

## **Final Notes:**

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

<b>TORQUE SPECIFICATIONS</b>					
<b>INCH SYSTEM</b>			<b>METRIC SYSTEM</b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FT LB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

**\*The above specifications are not to be used when the bolt is being installed with a bushing.**

**Seat Belts Save Lives, Please Wear Your Seat Belt.**