



# INSTALLATION INSTRUCTION

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Part #Chevy-SAS-001

## Notice to Dealer / Consumer

**Important! Read all instructions before attempting any work on the vehicle.**

**Disclaimer Notice:** Installing this suspension system on any vehicle implies that you are in agreement with the following term and conditions with respect to that vehicle, the vehicle owner, and any or all occupants of said vehicle at any time:

- Sky Manufacturing is not responsible, and cannot be held responsible for any conditions of said vehicle including, but not limited to the following: 1) Any and all adverse behavior, premature failure, or breakage caused by oversized tires and wheels, improper installation, failure to follow instructions, or any general negligence caused by installer or owner of said vehicle. 2) Any breakage or premature failure caused by racing or driver negligence. 3) Any incident determined to be caused by an increase height in said vehicle's center of gravity. 4) Any incident determined to be caused by improper installation. 5) Any incident determined to be caused by a failure of materials.
- Sky Manufacturing is to be held harmless by the installer of this suspension component, owner of said vehicle, and any parties related directly or indirectly to said vehicle or owner of said vehicle. Sky Manufacturing is to be held harmless by all parties mentioned during the course of any and all circumstances or incidence resulting from the installation of this suspension component.
- It is not the intention of Sky Manufacturing that said vehicle be modified for use on public highways sanctioned by the Department of Transportation, or any state or local governing body. Vehicle owner accepts sole responsibility for ensuring that said vehicle is not in violation of local, state, or federal laws or vehicle code. Please check local vehicle laws and regulations before modifying your vehicle.

**By installing this kit or having this kit installed on your vehicle, you are implying that you agree to the above terms and conditions. Please do not install this system if you do not agree.**

### **WARNING:**

Vehicle modified for Off-road use may handle differently and vehicle may roll-over.

Vehicles modified for off-road are generally not designed to improve cornering or maneuverability on the highway, therefore it is imperative to familiarize yourself and all operators of the vehicle of the special driving characteristics of the vehicle. Failure to operate vehicle in a safe and conservative manner may cause you, your passengers and third parties to suffer serious injury or even death if control is lost and vehicle overturns.

Always wear your seatbelt and shoulder harness. Seatbelts not only help to protect occupants from injury but also keep the driver behind the wheel and in control when operating in rough terrain. Always remain on trails and observe conservation techniques while operating your vehicle.

## Straight Axle Conversion Kit – CHEVY-SAS-001

### Bill of Materials

Part #	Qty	Description
SAS001-1	1	Front cross-member
SAS001-2	1	Passenger side rear shackle bracket
SAS001-3	1	Drivers side rear shackle bracket
SAS001-6	2	HD shackles
SAS001-8	1	Hardware Pack

Hardware Pack	
18	1/2" x 1.5" hex bolts
18	1/2" locknuts
36	1/2" washers
6	9/16" x 5" hex bolts
6	9/16" locknuts
12	9/16" washers
4	2221 BUSHINGS
2	9/16IDx3" SLEEVES

Grade 8 nut torque specifications			
Standard		Metric	
5/16" nuts	20 ft. lbs.	M6	9 ft. lbs.
3/8" nuts	35 ft. lbs.	M8	23 ft. lbs.
7/16" nuts	60 ft. lbs.	M10	45 ft. lbs.
1/2" nuts	90 ft. lbs.	M12	75 ft. lbs.
9/16" nuts	160 ft. lbs.	M14	120 ft. lbs.
5/8" nuts	175 ft. lbs.	M16	165 ft. lbs.

### INSTALLATION NOTES:

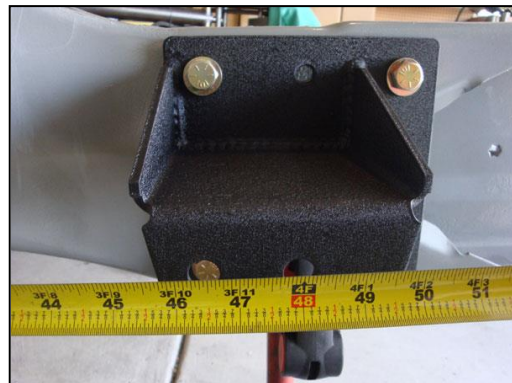
- Inspect the contents of the kit and read the entire instructions before proceeding.
- We recommend this installation be performed by a qualified technician
- Torque all hardware to factory specifications
- We recommend using red Loctite on all bolts
- When removing wheels, support vehicle with jack stands
- Use only factory approved fluids

1. Block the rear wheels, raise the front end of the vehicle and support the frame with jack stands behind the front wheels.
2. Remove all front suspension components including, brake calipers, rubber brake lines, steering assembly, sway bar (retain sway bar brackets), shocks and front drive shaft. Remove upper and lower A-arms and front differential (refer to the service manual for a more complete description of suspension component removal). Remove front tow hooks (retain tow hook backing plate and bolts). Leave steering box attached.
3. Locate the passenger side rear lower control-arm mounting bracket. Using a die grinder or plasma cutter, cut off lower portion of factory bracket flush with bottom of frame and grind frame smooth. **DO NOT** remove factory shock mount bracket as these will be used to mount the front shock hoops.

4. Locate the front spring hanger bracket (SAS001-1). Slide it under the front frame rails aligning the bracket with the factory holes under the frame rails. Attach front spring hanger using factory tow hook backing plates and bolts. Use Loctite and torque to specification. For 52" springs mount the spring hanger the opposite way (so the spring mounting point is farther forward). On some 2500 and 3500 models the tow hooks holes will not align with the front crossmember; if this is the case, bolt on the front cross-member using the side ear tabs, and then mark and drill new 1/2" holes.



5. Locate the Passenger side rear shackle bracket (SAS001-2) and hold it up inside the frame rail flush with the top of frame. Measure from center of front spring hanger bolt back to the rear shackle pivot bolt hole 46-1/2" and clamp in place.



6. Repeat step 5 for the drivers side rear shackle bracket (SAS001-3). The long slot on the bracket should align with the manual transmission shift linkage.

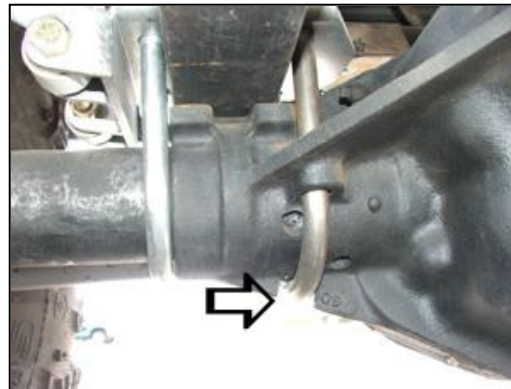
7. Once the passenger's and driver's side rear shackle brackets are properly located on the frame, Drill the  $\frac{1}{2}$ " mounting holes. Install  $\frac{1}{2}$ " x 1.25" hex bolts and washers. Torque to specification.



8. Install rear spring shackles (SAS001-6) into the rear shackle brackets using  $\frac{9}{16}$ " x  $4\frac{1}{2}$ " bolt and locknut. Install new front leaf springs (NOT SUPPLIED IN KIT) into front spring hanger and rear shackles using  $\frac{9}{16}$ " x  $4\frac{1}{2}$ " bolts, nuts without washers. Recommended springs: 73-87 Chevy Front springs with 88-91 bushing and sleeve kit.



9. Strip the front axle housing of all factory shock and sway bar mounts. On Ford Dana axles, you will need to grind a notch in the casting for the drivers side inner U-bolt to sit in. Half the depth of the U-bolt will be adequate.



10. Install front axle assembly to leaf springs (NOT SUPPLIED IN KIT) using the new U-bolts plates. Shock mounts on the spring plates should face down.

11. The use of a track bar is recommended (NOT SUPPLIED IN KIT).

12. Check and retighten u-bolts after first 100 miles.

