



# INSTALLATION GUIDE

**PART NUMBER: 5502**

**REAR ANTI-SWAY BAR**

**GM SILVERADO / SIERRA 1500 2WD / 4WD | 1999-2006**

**GM SILVERADO SS AWD | 2003-2006**

300 W. PONTIAC WAY CLOVIS, CA 93612

PHONE: 800-445-3767 | EMAIL: [INFO@BELLTECH.COM](mailto:INFO@BELLTECH.COM)

# THANK YOU

Thank you for choosing our high quality Belltech product. We have spent a great deal of time developing our line of products so that you will receive maximum performance with minimal difficulty during installation. Soon your vehicle will be on the road looking and feeling much improved.

**Please take a moment to read all instructions and warnings prior to installation of your new Belltech product and before operating your vehicle. If you have any questions or concerns regarding any step in the installation process, please do not hesitate to call or email our customer support specialists who are trained to help you through any portion of this process.**

## Before You Begin:

**It is of the utmost importance that you confirm all the components listed on the parts list are in the kit. You can find this list located on the last page(s) of your instructions. Do not begin installation if any part is missing. Instead, please call our Belltech customer service specialists.**

### Belltech Customer Support:

Phone: 1-800-445-3767

Email: [info@belltech.com](mailto:info@belltech.com)

## Safety Information:

**Warning:** Do not work under a vehicle supported only by a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Proper use of safety equipment and eye/face/hand protection is necessary when performing any of the following instructions.

We strive for an exceptional experience for all our valued customers. If for any reason you need assistance with your Belltech products, please do not return the product to the store you purchased from, but rather call our dedicated customer service experts, from 7am to 5pm PST.

We recommend that a qualified mechanic, in a properly equipped facility, perform this installation.

It is very helpful to have an assistant available during installation.

## Before Driving Your Vehicle:

It is important to double check all brake hoses, cables, and other components to be sure there is no interference. You must also check for wheel/tire to chassis/body interference. If any issues are found, review your installation instructions to be sure no steps were missed, and any problems are corrected.

Make sure your vehicle is aligned immediately following installation.

Check all hardware and torque at intervals for the first 10, 100, and 1000 miles.

Some of Belltech's products are designed to improve your vehicle's off-road performance. Leveling/lifting your vehicle may result in an altered center of gravity. It is crucial to use extreme care when operating your vehicle to prevent rollover and/or loss of control.

Any changes in your vehicle's suspension may result in transformed handleability. Please test-drive your vehicle in a remote location so you can become accustomed to the revised driving characteristics.

Perform headlight check and adjustment.

Failure to drive any modified vehicle in a safe manner may result in harm or death.

Never operate your modified vehicle under the influence of drugs, alcohol, or lack of adequate sleep.

Always wear your seatbelt.



**DIFFICULTY:**



**INSTALLATION TIME:** 1-2 Hours

## RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Metric and standard socket wrench set
- Metric and standard wrench set
- Drill with drill bit set
- Safety glasses
- Torque wrench rated up to 150 ft lbs.

## JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete, or seasoned asphalt surface.
2. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or first gear (manual).
3. Activate the parking brake.
4. Loosen, but do not remove, the rear wheel lug nuts.
5. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
6. Place support stands rated for the vehicle's weight. The stands must be positioned in the factory specified locations. (Refer to the owner's manual). Prior to lowering the vehicle onto stands, make sure the support stands will contact the chassis. It is very important that the vehicle is properly supported to prevent any harm to oneself or to the vehicle.
7. Lower the vehicle slowly onto the stands.
8. Remove the rear wheels.



### Technician reminder:

Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

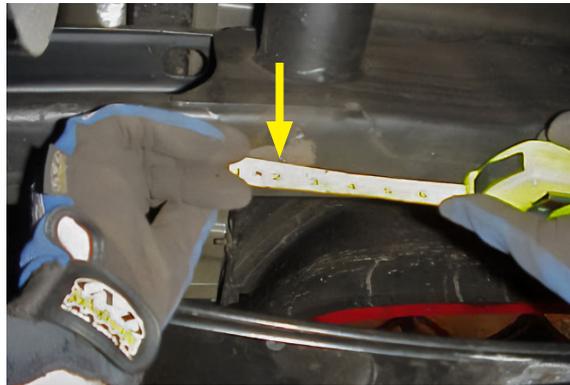
# BELLTECH ANTI-SWAY BAR INSTALLATION

9. Locate the oval hole at the bottom of the frame rails, near the front of the axle.



10. Prepare the frame rails using a rag and solvent; thoroughly clean the area around the oval holes. Each of these oversized holes will be used as one of the bolt holes for the end link brackets.

11. Use a tape measure to mark approximately 2" back from the rearward edge of the oval hole.



12. Use a punch and hammer to accurately mark the holes to be drilled on the left and right side frame rails. Use a 3/8" drill bit and power drill make the required holes in the frame rail. Deburr the holes with a small round file or deburring tool.



13. Confirm the hole spacing with an end link drop down bracket as a guide. If the spacing is not accurate, the holes may be slightly enlarged. Resize the holes just enough to allow proper fitment. Remove the metal debris before continuing.



# BELLTECH ANTI-SWAY BAR INSTALLATION CONTINUED



## Technician warning:

Belltech suggests installation with the fuel tank near empty. The fuel tank must be moved from the frame to gain access to the driver side inner frame rail during installation.

Extreme caution must be practiced when working with the fuel tank and other fuel system components. Fuel is flammable and explosive. No smoking and extinguish all sources of ignition and/or flame while working with the vehicles' fuel system.

14. Support the fuel tank with properly rated stands or straps. If stands are used, place a section of wood under the tank to distribute its' weight over a larger portion of the tank. Ensure not to damage the tank or other fuel system components. Both tank straps must be unfastened and positioned out of the way or removed.



15. Place the studded backing plates in the frame rails with the threaded studs protruding downward. Place the end link drop down brackets on the frame with the end link holes towards the rear. Fasten the brackets to the studs using the 3/8" Stover lock nuts and washers. Align the brackets so they are parallel with the frame rails. Torque the hardware to 34 ft lbs.



16. Return the fuel tank into its' original position. Attach the two fuel tank straps with the original bolts. Torque 36 ft lbs.
17. Attach the Belltech end links to the drop-down brackets using the 3/8"-16 X 2-3/4" bolts, washers, and lock nuts. The bolts must be positioned with the hex head facing out. Torque the lock nuts to 34 ft lbs.



## BELLTECH ANTI-SWAY BAR INSTALLATION CONTINUED

18. The emergency brake cable guide bracket and cable must be moved up to gain clearance for the Belltech rear sway bar. Remove the bracket located on the outer surface of the driver side shock mount. Pry the bracket open and remove the brake cable.



19. Fasten the original 5/16" bracket bolt to the cable bracket with the supplied 5/16" Nyloc nut. This will prevent the bracket from slipping while drilling a new index hole. Measure a 1/2" down from the original hole and mark it with a punch. Place the bracket in a vise and use a power drill with a 5/16" drill bit to make the new hole.



20. Attach the bracket to the lower shock mount. Fasten the bracket and brake cable in place using the original bolt on the new hole. Torque to 18 ft lbs.



# BELLTECH ANTI-SWAY BAR INSTALLATION CONTINUED



## Technician note:

Attach the Belltech sway bar to the vehicle by the end links first, then to the axle.

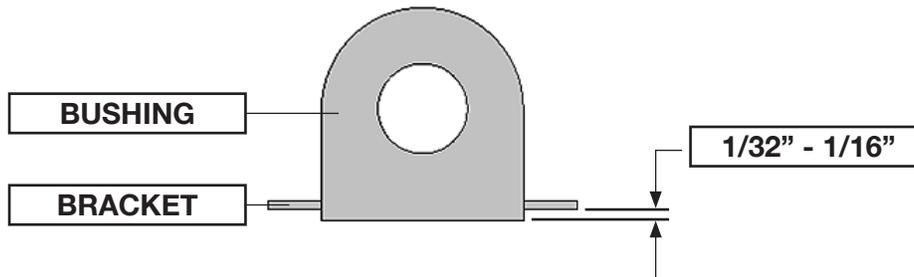
21. Attach the sway bar to the end links, in the “outside” position. Use the 3/8”-16 X 2-3/4” bolts, washers, and lock nuts. The bolts must be positioned with the hex head facing out. Torque the lock nuts to 34 ft lbs.



22. Thoroughly lubricate the inside of the supplied pivot bushings using the grease packet included with the kit.
23. Place the bushings on both sides of the Belltech sway bar, centered on the first set of bends. Once located, rotate the bushings slightly to evenly spread the lubricant. Place the bushing brackets over the bushings.

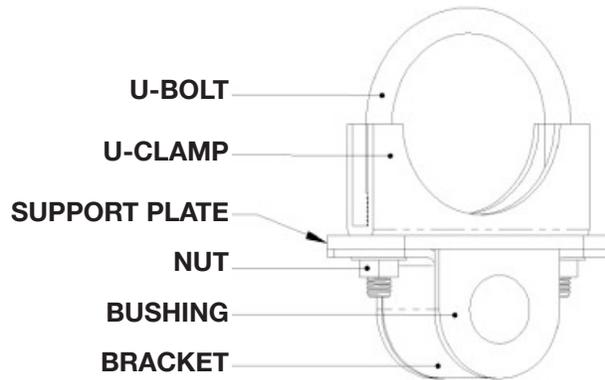


24. Ensure there is 1/32” to 1/16” of the bushing is showing after the bracket is seated. If the bushing is showing more than 1/16”, use a sander or a sheet of coarse grit sandpaper to shave it down to the proper height.



## BELLTECH ANTI-SWAY BAR INSTALLATION CONTINUED

25. Carefully bend the hydraulic line away from the axle and place the U-bolts over the axle tube and under the brake line, ensuring the brake line is not clamped underneath. Place the U-clamp on the U-bolt followed by the support plate. Mount the sway bar and bushing bracket on the U-clamp. Hand tighten the supplied nuts on the U-bolt for now. Ensure the sway bar is positioned below the axle.



26. Center the sway bar left to the right and front to rear. Position the U-bolts and clamps to the widest spacing possible, inboard of the lower shock mounts. This will prevent the sway bar from shifting left or right while cornering.
27. Torque the U-bolt nuts to 19 ft lbs.

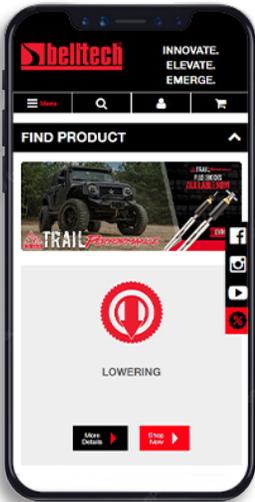


# FINALIZING THE INSTALLATION

28. Mount the wheels and tighten the lug nuts
29. Lift the vehicle and remove the support stands.
30. Carefully lower the vehicle onto flat ground.
31. Torque the lug nuts to 140 ft lbs.
32. Check that all components and fasteners have been properly installed and torqued.
33. Read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

## THANK YOU FOR CHOOSING BELLTECH.

You are now a part of the Belltech family and we are eager to catch a glimpse of your newly modified vehicle. Give us a shout out and let us know how much you love our product. Don't forget, we offer other Belltech related merchandise for you and your vehicle on our website [www.belltech.com](http://www.belltech.com)



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If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

### Belltech Customer Support:

Phone: 1-800-445-3767

Email: [info@belltech.com](mailto:info@belltech.com)

# KIT CONTENTS



SWAY BAR KIT		
Part number	Description	Qty
5502-300	1" REAR ANTI-SWAY BAR	1
5502-777	HARDWARE KIT	1

HARDWARE KIT		
Part number	Description	Qty
110255	3/8"-16 NYLOC NUT	4
110203	5/16"-18 NYLOC NUT	1
112318	3/8"-16 STOVER LOCK NUT	4
110625	3/8" WASHER	12
112110	3/8"-16 X 2-3/4" BOLT	4
114050	END LINK	2
114035-005-95	STUDED BACKING PLATE	2
114035-99	END LINK BRACKET	2
112258	3" U-CLAMP	2
113075	1" PIVOT BUSHING	2
114026-95	PIVOT BUSHING BRACKET	2
114038-95	BUSHING SUPPORT PLATE	2
55000-10	WHITE LITHIUM GREASE	1