



PART NUMBER: 5578 REAR ANTI-SWAY BAR

CHRYSLER 300C | 2004-2011 DODGE CHALLENGER | 2008-2011 DODGE CHARGER | 2006-2011 DODGE MAGNUM | 2005-2008

300 W. PONTIAC WAY CLOVIS, CA 93612 PHONE: 800-445-3767 | EMAIL: INFO@BELLTECH.COM



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

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.







RECOMMENDED TOOLS:

- Properly rated floor jack
- Multiple support stands
- Wheel chocks
- Metric and standard socket wrench set
- Metric and standard wrench set
- Safety glasses
- Torque wrench rated up to 150 ft lbs.

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

- Park your vehicle on a smooth, level, concrete, or seasoned asphalt surface.
- Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or first gear (manual).
- Activate the parking brake. 3.
- Loosen, but do not remove, the rear wheel lug nuts.
- 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.
- 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.
- Lower the vehicle slowly onto the stands.
- Remove the rear wheels.



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.

ORIGINAL SWAY BAR REMOVAL

9. Locate the rear shock top mount, inside the upper rear fender well. Remove the 13mm mounting bolts to let the rear shock top mount stand freely.



- 10. The exhaust muffler must be disconnected and lowered to gain access to the original sway bar. This includes the rubber exhaust hangers. There are three (3) sets of hangers, however only two (2) need to be removed. For the two (nearest the rear bumper), leave the rubber hanger attached to the mount, only remove the mount from the undercarriage.
- 11. 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.
- 12. Remove the 13mm hanger mount bolts near the rear bumper and the next one upstream of the exhaust. Let them hang off the rubber hangers.





13. Position jack stands underneath the exhaust and adjust them upward, letting the exhaust system rest on top of the jack stands.



ORIGINAL SWAY BAR REMOVAL CONTINUED

14. The third set of hanger mounts are welded to the undercarriage. Only the rubber hanger is removed. To ease the hanger removal, use lubricant to spray on the hanger mount stud. Use a large screwdriver or pry bar to remove the rubber hanger off the mount. The entire rear exhaust system should rest free on top of the jack stands.





15. The rear subframe support arms need to be lowered from the chassis. Place multiple jack stands in position to support the rear subframe support arms. Adjust the jack stands upward for tension on the support arms.



16. There are four (4) main mounting bolts that attach the rear subframe support arms to the chassis (Photo 8). Remove all four 18mm bolts. Leave the jack stands as they are, do not adjust them yet.





ORIGINAL SWAY BAR REMOVAL CONTINUED

17. To lower the subframe, the end link must be detached from the sway bar. Use a 15mm wrench and a 16mm wrench to remove the olt and nut from the upper end link. Do not remove the lower end link hardware.



18. Remove the 15mm bolts from the pivot bushing brackets. Detach the bushing brackets from the sway bar.

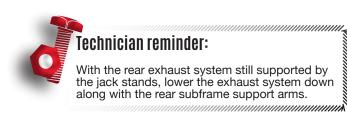


19. Remove the 10mm bolt at the brake line bracket to prevent damage to the brake line while the subframe is lowered.



ORIGINAL SWAY BAR REMOVAL CONTINUED

20. Begin lowering the subframe support arms slowly. If the installation is being done by one person, alternate between jack stands, adjusting the support arms downward away from the frame chassis. Lower the subframe to gain enough clearance for removing the original sway bar.





21. From either side of the vehicle, slowly guide out the sway bar up and over the subframe assembly. Ensure not to damage any lines or components. Remove the sway bar from the vehicle.



BELLTECH ANTI-SWAY BAR INSTALLATION

- 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, near their original positions. Once located, rotate the bushings slightly to evenly spread the lubricant. Place the bushing brackets over the bushings.



24. Feed the sway bar through the vehicle with the ends of the sway bar facing down. Ensure not to damage any lines or components as the sway bar is being passed through. The Belltech sway bar will sit the same way as the original sway bar.



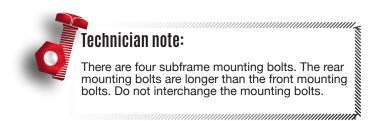
25. Attach the original pivot bushing brackets on the new bushings. Fasten the brackets with the original bolts but do not torque yet.



26. Attach the upper end links to the ends of the Belltech sway bar with the original nuts and bolts. Do not torque yet.

BELLTECH ANTI-SWAY BAR INSTALLATION CONTINUED

- 27. Work your way back to reattach each area that was disconnected by the installation.
- 28. Torque the pivot bushing brackets to 45 ft lbs.
- 29. Use the jack stands to adjust the rear subframe support arms and exhaust system upward to the original positions. Fasten the subframe with the original bolts, torque the subframe bolts to 133 ft lbs.



- 30. Attach the exhaust hanger mounts to the chassis with the original bolts. Torque to 25 ft lbs.
- 31. The third set of hangers with the welded mounts, use a lubricant to slide the rubber hanger onto the mount stud.
- 32. Attach the brake line brackets to the body of the vehicle with the original bolts. Torque to 8 ft lbs.
- 33. Place upper end of shock absorber up into shock mount. Fasten the shock with the original bolts, torque to 38 ft lbs.
- 34. Torque the upper end links hardware to 45 ft lbs.



FINALIZING THE INSTALLATION

- 35. Mount the wheels and tighten the lug nuts
- 36. Lift the vehicle and remove the support stands.
- 37. Carefully lower the vehicle onto flat ground.
- 38. Torque the lug nuts to 110 ft lbs.
- 39. Check that all components and fasteners have been properly installed and torqued.
- 40. 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









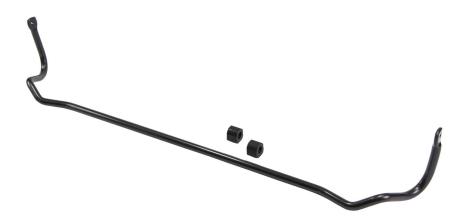
If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

Belltech Customer Support:

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KIT CONTENTS



	SWAY BAR KIT	
Part number	Description	Qty
51504-300	7/8" REAR ANTI-SWAY BAR	1
51504-777	HARDWARE KIT	1

	HARDWARE KIT	-
Part number	Description	Qty
51504-020	7/8" PIVOT BUSHING	2
55000-10	WHITE LITHIUM GREASE	1



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