

# **BD Steering Box Support (SBS)**













<b>1032002</b>	<b>1994-2002</b>	<b>2500-3500 2WD</b>
	<b>1994-2001</b>	<b>1500 2WD</b>
<b>1032004</b>	<b>1994-2002</b>	<b>2500-3500 4WD</b>
	<b>1994-2001</b>	<b>1500 4WD</b>
<b>1032005</b>	<b>2003-2008</b>	<b>2500-3500 4WD</b>
<b>1032006</b>	<b>2009-2011</b>	<b>2500-3500 4WD</b>


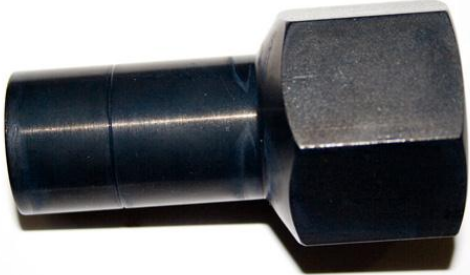








**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**

Some 2wd drive application utilize a sold axle, for these applications please use the 4wd SBS unit Part# 1032004, 1032005, 1032006

## KIT CONTENTS:

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

1994-2008 STEERING BOX SUPPORT (Kit# 1032002, 1032004, 1032005)				
<b>1302002</b>		<b>1302004</b>		
				
<i>Steering Box Support (1032002 Kit Only)</i>		<i>Steering Box Support Bar (1032004 Kit Only)</i>		
<b>Qty: 1</b>		<b>Qty: 1</b>		
<b>1302005</b>				
				
<i>Steering Box Support Bar (1032005 Kit Only)</i>				
<b>Qty: 1</b>				
<b>1302010</b>	<b>1302017</b>	<b>1040150</b>	<b>1040153</b>	<b>1040152</b>
				
<i>Sector Shaft Bolt</i>	<i>Bearing Assembly</i>	<i>Cap Screw 1/2" x 1 1/2"</i>	<i>Flat Washer</i>	<i>Lock Washer</i>
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 2</b>	<b>Qty: 2</b>
<b>1040151</b>	<b>1302020</b>	<b>1302028</b>	<b>1452815</b>	
				
<i>1/2" Nut</i>	<i>Thread Lock</i>	<i>Frame Bolt M10 x 1.5" x 35mm</i>	<i>Frame Washer M10</i>	
<b>Qty: 2</b>	<b>Qty: 1</b>	<b>Qty: 4</b>	<b>Qty: 4</b>	

<b>DODGE 2009+ STEERING BOX SUPPORT (SBS) (BD# 1032006)</b>			
<b>1302005</b>		<b>1302070Z</b>	
			
<i>Steering Box Support</i>		<i>Sector Shaft Bolt</i>	
<b>Qty: 1</b>		<b>Qty: 1</b>	
<b>1302017</b>	<b>1040150</b>	<b>1040153</b>	<b>1040152</b>
			
<i>Bearing Assembly</i>	<i>1/2" x 1-1/2" Capscrew</i>	<i>Flat Washer</i>	<i>Lock Washer</i>
<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 2</b>	<b>Qty: 2</b>
<b>1040151</b>	<b>1302020</b>	<b>1302028</b>	<b>1452815</b>
			
<i>1/2" Nut</i>	<i>Thread Lock</i>	<i>Frame Bolt M10 x 1.5" x 35mm</i>	<i>Frame Washer (M10)</i>
<b>Qty: 2</b>	<b>Qty: 1</b>	<b>Qty: 4</b>	<b>Qty: 4</b>

NOTE: For this kit you will require a 1-1/2" socket as the kit utilizes a large sector shaft nut.

## Welcome

Thank you for purchasing a BD Steering Box Support. This manual is divided into different areas to assist you with your installation and operation of your steering box support system.

This product is not a replacement for a new steering box and/or ball joints, but it will aid in reducing the stress placed on the steering box and associated wear. All steering components should be checked and replaced if necessary prior to addition of the steering box support.

Installation should occur on a vehicle properly secured to prevent rolling.

Application of lubrication at regular chassis lube intervals will promote bearing life.



## 1032005 Compatibility Note

**1032005** is not compatible with Dodge's new larger 6 bolt steering box. Please use kit number **1032007** if you have this steering box.



To identify this steering box, look at the top of the steering box, the old compatible unit will have four bolts fastening the top cover in place. While the newer steering box will have six. Also the sector shaft on the old compatible unit will be 7/8 thread, while the newer unit will be M30.

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: [www.bd-power.com](http://www.bd-power.com)

## ***Required Tools***

- 15mm, 17mm & 19mm Socket / Wrench
- *(BD # 1032006 only)* 1-1/2" Socket
- 1-5/16" and 1-1/4" Socket/Wrench
- 1/8" Allen wrench
- Torque Wrench (40-180 lbs-ft).
- Never seize

## ***Maintenance***

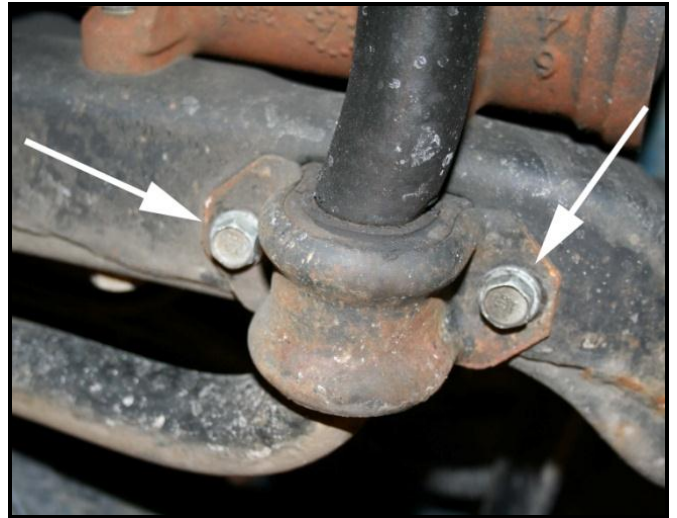
Grease bearings at regular oil change intervals for optimal protection of bearing from wear and contamination due to environment.

**INSTALLATION****\*\* CAUTION \*\***

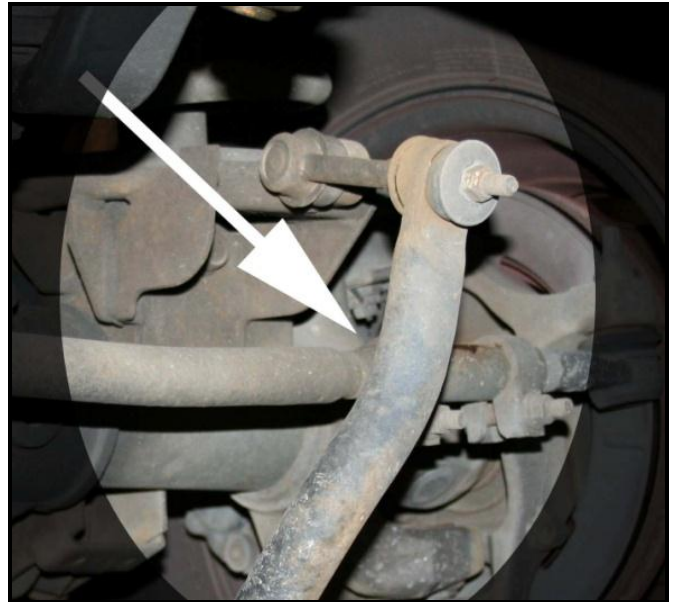
**THE SWAY BAR WILL DROP WHEN BOLTS ARE REMOVED, SO REMOVE WITH CAUTION.**

Hold onto or otherwise support the sway bar.

Remove the four mounting bolts (15mm) that secure the sway bar to the frame.



Allow the sway bar to swing down and rest onto the steering linkage.



A **1-5/16"** **socket** will be required to remove the steering box sector shaft bolt with lock washer. Retain the lock washer for re-installation with the new nut.

**Note:** If the vehicle is a 2009-2011 model a **46mm** socket will be required to remove the stock sector shaft bolt. If a 46mm socket is not available a **1 13/16"** socket may be used instead.



A **1-1/4"** deep socket (**180 lbs-ft**) should be used to install the new sector shaft nut, re-using the stock lock washer.

NOTE: If installing a 1032006 kit you will need a **1-1/2"** deep socket (**180 lbs-ft**).



Slide the support bar into place, where the mounting feet are positioned in between the sway bar mounting and the frame.

When the sway bar is moved into place, the large diameter hole on the bearing plate will be approximately centered on the sector shaft nut.



Apply Loctite. Install (**snug, not tight**) four of the supplied **17mm** bolts with washers to re-secure the sway bar and SBS to the frame, while allowing for final mounting position to be fine tuned.

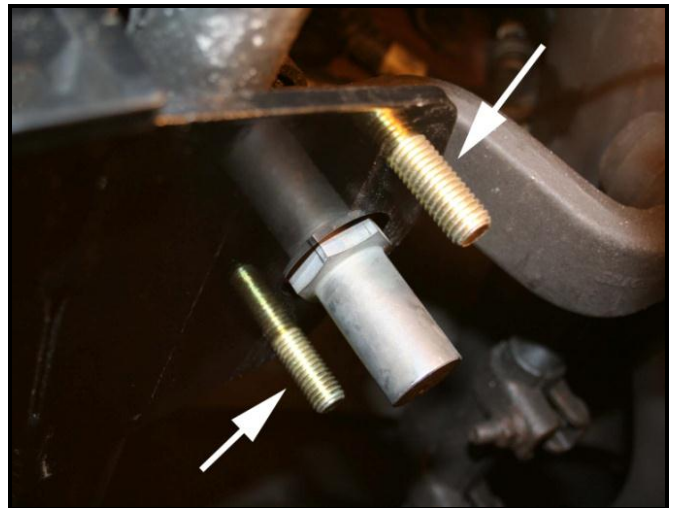
The bracket is aligned when the sector shaft nut is centered in the hole.

*\*\*\* It may be necessary to loosen the sway bar end link bolts to ease this process. (15mm)*



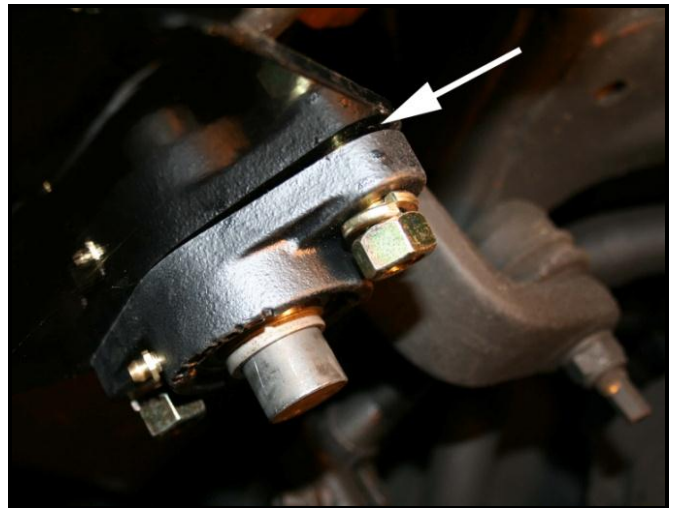
Install two bolts through the small holes in bearing mounting area, so that the threads are hanging through the bracket.

*\*NOTE\*: Before installing the bearing assembly, apply some Anti-seize to the sector shaft to help assist future removal.*

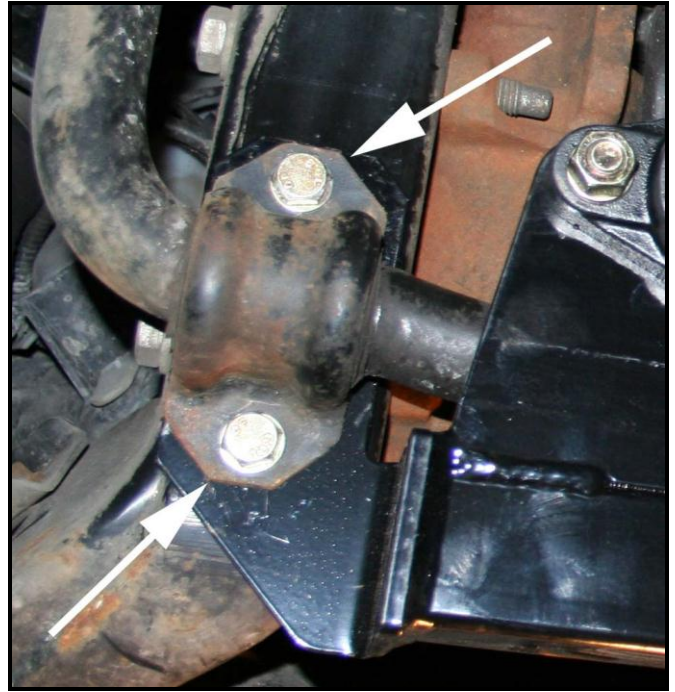


Install the bearing assembly over the sector shaft nut until the bearing block comes to rest on the support bracket (noting that the block may not be flat to the mount at this point).

Install the lock washer and nut to the two bolts protruding through the bearing assembly (snug but do not tighten).

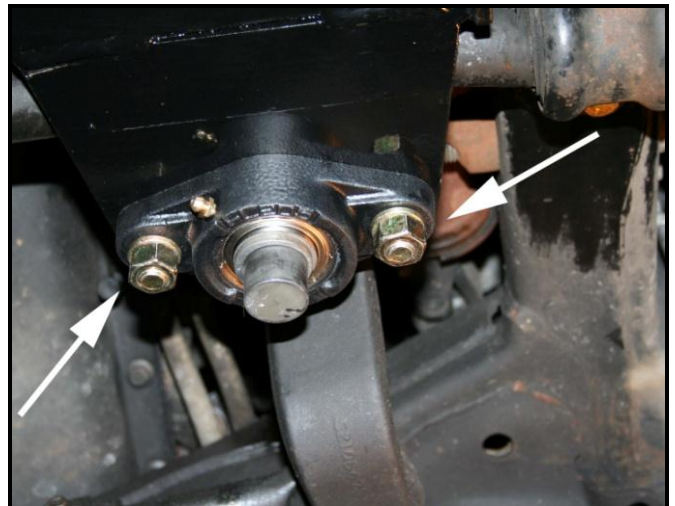


Tighten the four sway bar mounting bolts (**17mm**) to **40 lbs-ft.** (as per Dodge's specification).



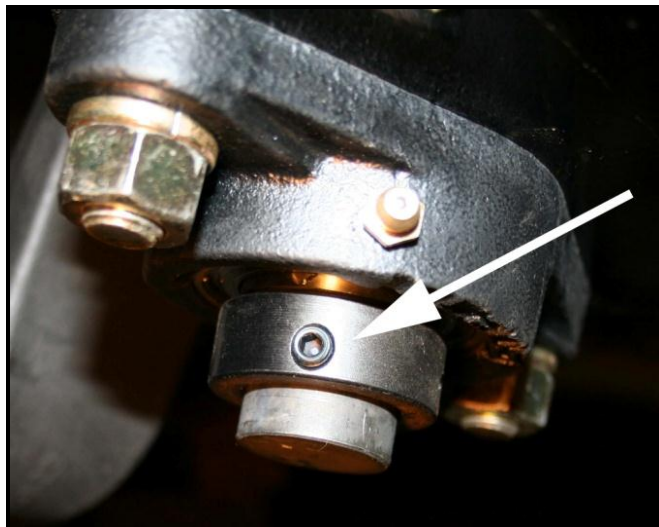
Ensure free movement (rotation) of the steering box sector shaft nut. If it is not free moving, then undo the sway bar bolts and readjust.

Tighten the bearing lock washers and nuts (**19mm**).



Remove the set screws and apply LocTite.

Install and tighten the set screws (3/32" Allen wrench).



- \* Check that the zerk grease fitting is tight.
- \* Use a standard grease gun to apply grease to the bearing.

**If you have any technical difficulties, concerns, comments, or complaints, please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday, or post a message on the BD Discussion Forums located at:**

<http://forum.bd-power.com/>



Visit our Internet forums at <http://www.dieselperformance.com> and share your comments or technical support questions with some of the industry's leading experts in the diesel field.