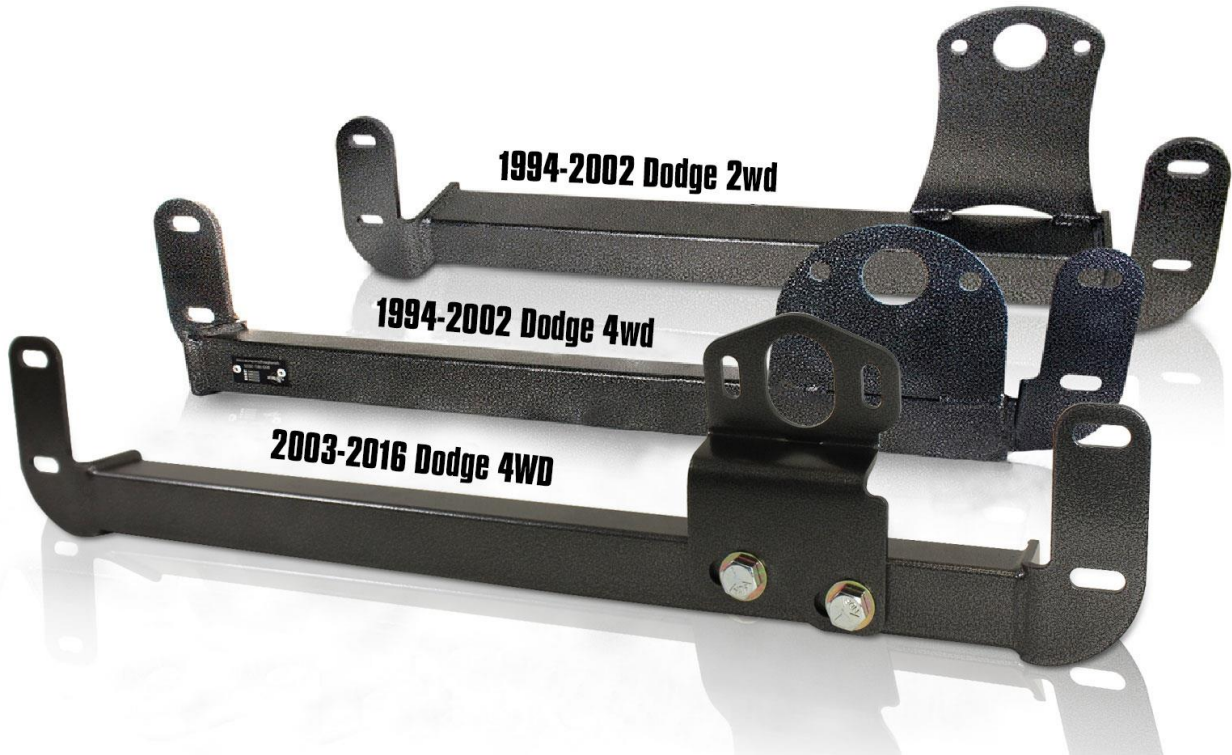




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## **BD Steering Box Support (SBS)**












<b>1032002</b>	<b>1994-2002</b>	<b>2500-3500 2WD</b>
	<b>1994-2001</b>	<b>1500 2WD</b>
<b>1032003</b>	<b>2003-2016</b>	<b>2500-3500 4WD</b>
<b>1032004</b>	<b>1994-2002</b>	<b>2500-3500 4WD</b>
	<b>1994-2001</b>	<b>1500 4WD</b>















**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**

Some 2wd drive application utilize a solid axle, for these applications please use the 4wd SBS unit Part# 1032003, 1032004

## 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.

1994-2002 STEERING BOX SUPPORT (SBS) (Kit# 1032002, 1032004)				
1302002		1302004		
				
<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>		
1302010	1302017	1040150	1040153	1040152
				
<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>
1040151	FT-0606434	1302028	1452815	
				
<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 2003-2016 STEERING BOX SUPPORT (SBS) (BD# 1032003)</b>			
<b>1302003</b>		<b>1302003-1</b>	
			
<i>Steering Box Support Bar</i>		<i>SBS Bracket</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>FT-0606434</b>	<b>1302028</b>	<b>1452815</b>
			
<i>1/2" Nut</i>	<i>Thread Lock Blue</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>1302010</b>	<b>FT-17305</b>	<b>1302044</b>	<b>1302070Z</b>
			
<i>1-1/4" Shaft Bolt</i>	<i>Bolt: 5/8-18 x 1"</i>	<i>Washer: 5/8"</i>	<i>1-1/2" Shaft Bolt</i>
<b>Qty: 1</b>	<b>Qty: 2</b>	<b>Qty: 2</b>	<b>Qty: 1</b>

## **Welcome**

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.



## **Required Tools**

- 15mm, 17mm & 19mm Socket / Wrench
- 15/16" Wrench
- 1-1/2" Socket
- 1-5/16" and 1-1/4" Socket/Wrench
- 3/32" Allen wrench
- Torque Wrench (40-180 lbs-ft).
- Never seize

## **Maintenance**

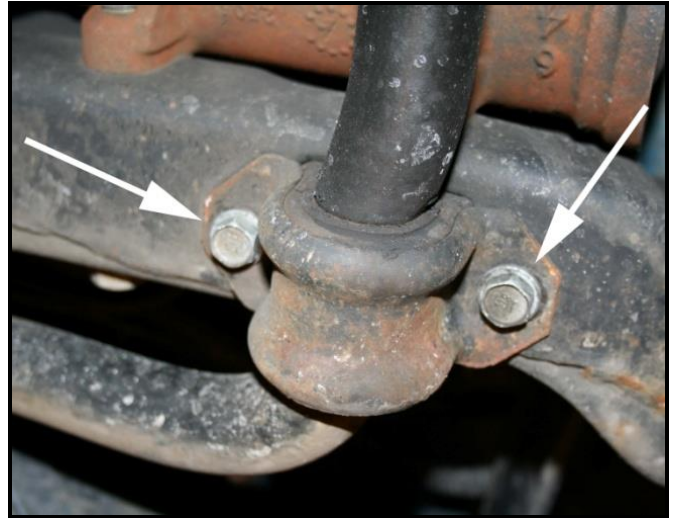
Grease bearings at regular oil change intervals for optimal protection of bearing from wear and contamination due to environment.

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

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

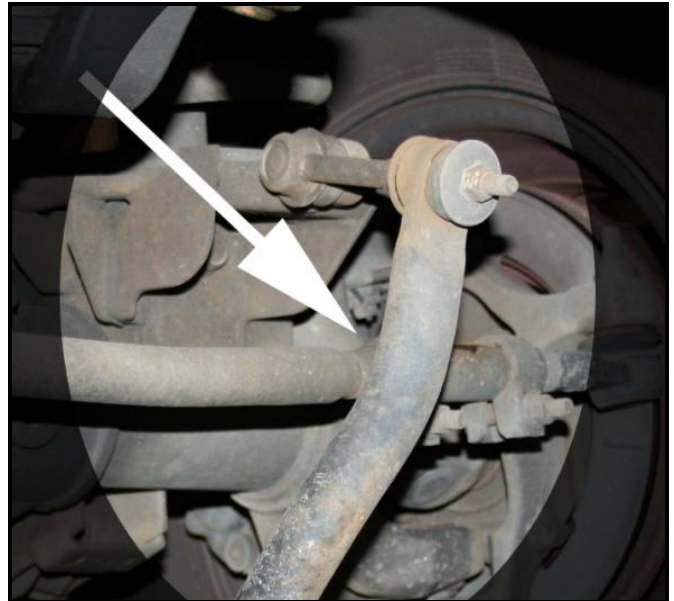
Hold on to or otherwise support the sway bar.

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.

NOTE: 1302003 Kits – The SBS bar may be installed with the sway bar still being supported.



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

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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 2009-2016 model (or with a updated steering box) 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 (**1302010**), re-using the stock lock washer.

NOTE: Some steering boxes utilize a larger bolt and will require 1302070Z. If installing a **1302070Z** sector shaft nut you will need a **1-1/2"** deep socket (**180 lbs-ft**).

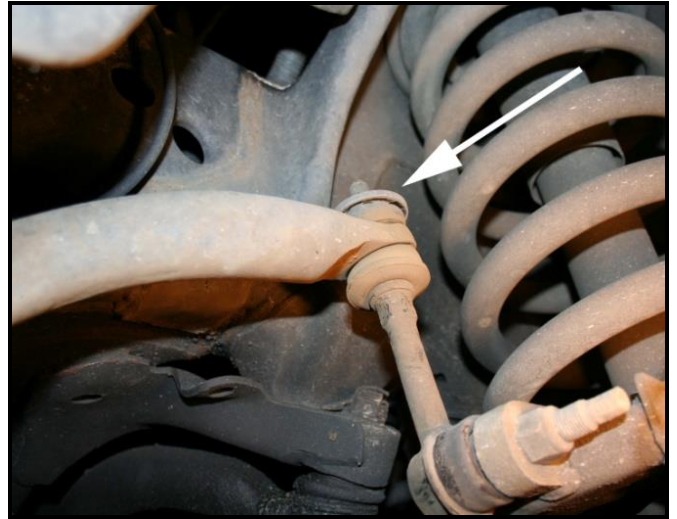


Slide the SBS bar into place, where the mounting feet are positioned in between the sway bar mounting and the frame.

NOTE: 1032003 Kits - Unbolt the two 5/8"-18 x1" bolts from the steering box stabilizer bar and remove the SBS bracket prior to installing the bar.



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



Apply Loctite and 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 the final mounting position to be fine tuned.

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



**NOTE:** 1032003 Kits - Use the 2x 5/8" bolts and washers to center the SBS bracket on the SBS bar.

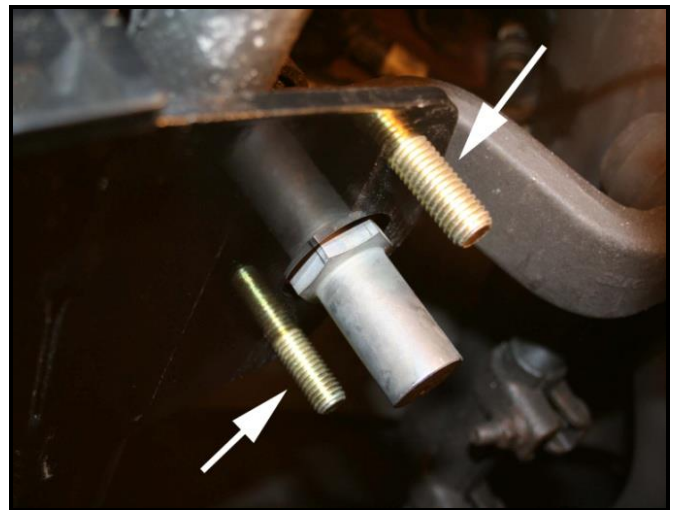


NOTE: 1032003 Kits - Center the SBS bracket on the sector shaft using the slots provided. Tighten both 5/8" bolts using a 15/16" wrench (**112 lbs-ft**).



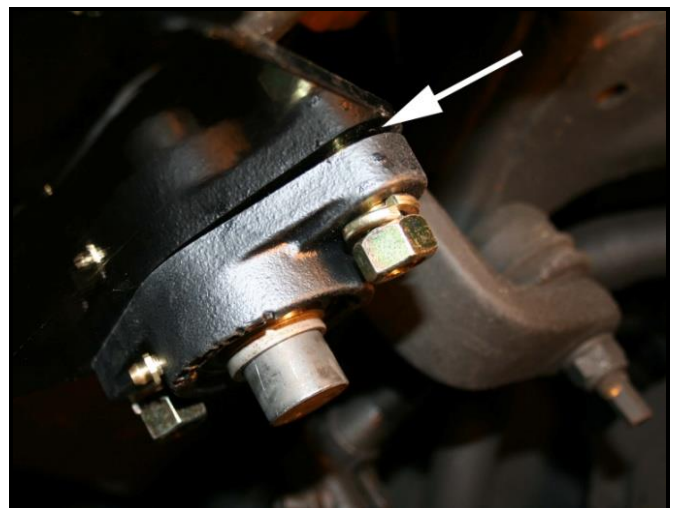
Install two bolts through the small holes in bearing mounting area, so that the threads are hanging through the bracket.

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



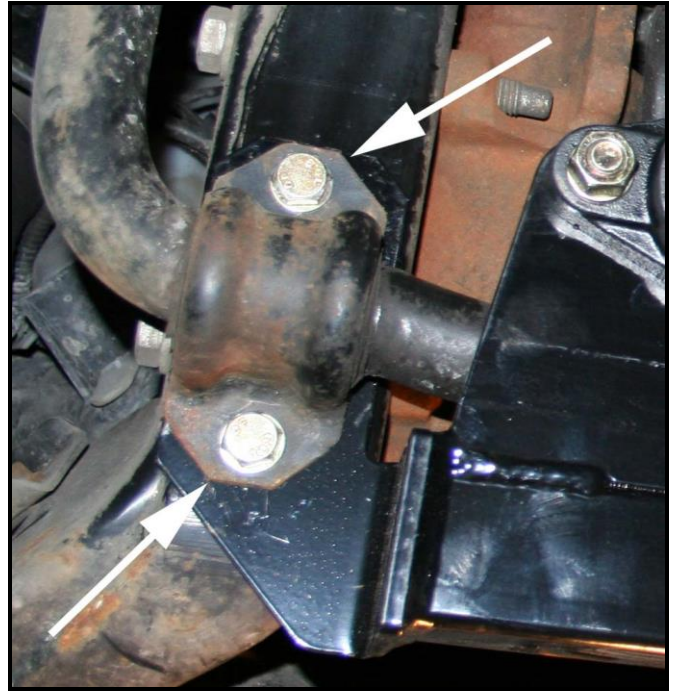
Install the bearing assembly over the sector shaft nut until the bearing block comes to rest on the support bracket (noting that the block may not be flat to the mount at this point).

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



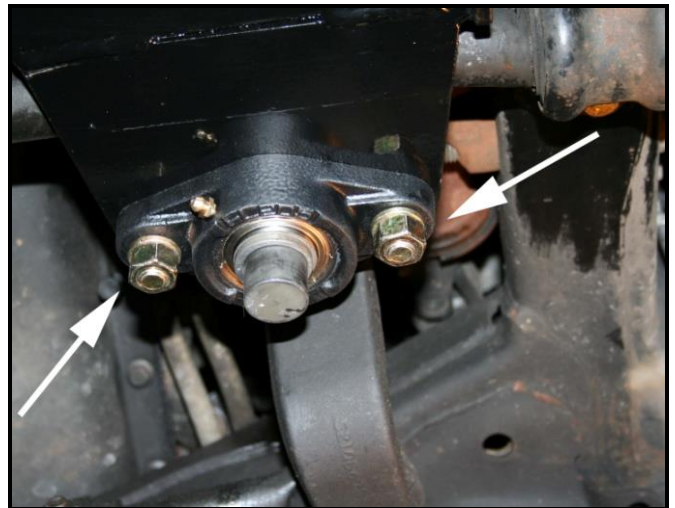


Tighten the four sway bar mounting bolts (**17mm**) to **40 lbs-ft.** (as per Dodge's specification).



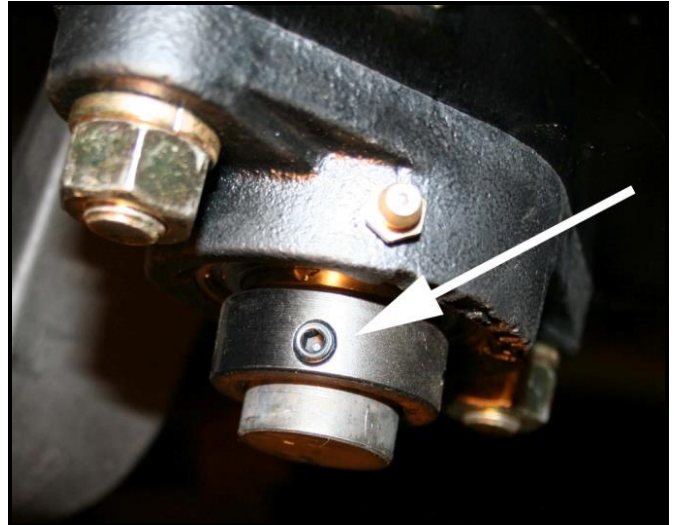
Ensure free movement (rotation) of the steering box sector shaft nut. If it is not free moving, then undo the sway bar bolts and readjust.

Tighten the bearing lock washers and nuts (**19mm**) to 57 lbs-ft.



Remove the set screws and apply LocTite.

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



*\* Check that the zerk grease fitting is tight.*

*\* Use a standard grease gun to apply grease (chassis or wheel bearing 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.**

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