



BD Steering Box Support (SBS)

1994-20022500-3500 2WD1994-20011500 2WD

P/N# 1032002

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

BD ENGINE BRAKE, INC. Plant Address: A10-33733 King Rd, Abbotsford, BC, Canada V2S 7M9 US Shipping Address: 88-446 Harrison St, Sumas, WA 98295 US Mailing Address: PO Box 231, Sumas, WA 98295 Phone: 604-853-6096 Fax: 604-853-8749 Internet: www.bd-power.com

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

DODGE 1994-2002 STEERING BOX SUPPORT (SBS) (BD# 1302002)					
1302002		1302010N			
Steering Box Support		Sector Shaft Bolt			
Qty: 1		Qty: 1			
1302017	1040150	1040153	1040152		
	T	\odot	0		
Bearing Assembly	Cap Screw ½" x 1 ½"	Flat Washer	Lock Washer		
Qty: 1	Qty: 2	Qty: 2	Qty: 2		
1040151	1302020	1302028	1452815		
	And		0		
1⁄2" Nut	Thread Lock	Frame Bolt M10 x 1.5" x 35mm	Frame Washer M10		
Qty: 2	Qty: 1	Qty: 4	Qty: 4		

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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.

THIS PRODUCT IS NOT SAFE TO USE AS A TOWING OR WINCHING ATTACHMENT POINT.

Required Tools

- 15mm, 17mm & 19mm Socket / Wrench
- 1-5/16" and 1-1/4" Socket/Wrench
- 1/8" Allen wrench
- Torque Wrench (40-180 lbs-ft).

Maintenance

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

INSTALLATION

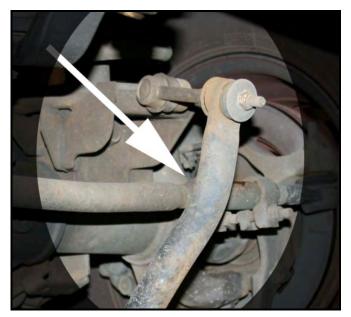


** CAUTION ** THE SWAY BAR WILL DROP WHEN BOLTS ARE REMOVED, SO REMOVE WITH CAUTION.

Hold onto or otherwise support sway bar.

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





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

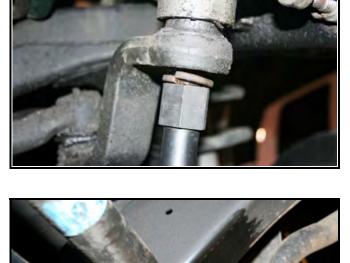


A **1-5/16**" **socket** will be required to remove the steering box sector shaft bolt with lock washer. Retain the lock washer for re-installation with new nut.

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.

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.



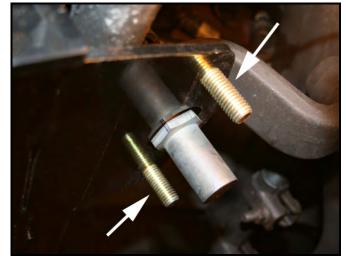


Apply Loctite. Install (**snug, not tight**) four of the supplied **17mm** bolts with washers to re-secure the sway bar and SBS to the frame, while allowing for final mounting position to be fine tuned.

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

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

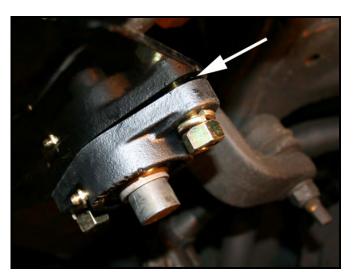




Install two bolts through the small holes in bearing mounting area, so that the threads are hanging through the bracket.

Install bearing assembly over the sector shaft nut until bearing block comes to rest on the support bracket (noting that the block may not be flat to the mount at this point). With two bolts slid through holes in bearing block. Install lock washer and nut.

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 bearing with lock washers and nuts. (**19mm**)

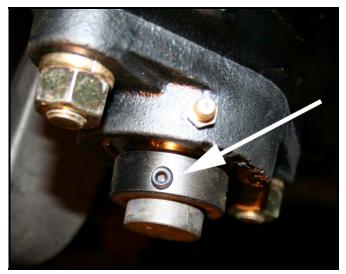






Remove the set screws and apply lock tight.

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/



94-02 Dodge 2wd Steering Box Support (SBS) <u>LIMITED WARRANTY STATEMENT</u>

BD Engine Brake, Inc., Valley Fuel Injection Ltd., BD Diesel Performance, Turbocharger.net (the "Seller") warrants the following product(s):

All products manufactured or rebuilt by the Seller are to be free from defects in material or workmanship which includes but is not limited to Turbochargers, Exhaust and Intake manifolds, Exhaust brakes, Intercoolers, Flex Plates, Transmissions, Torque Converters, Oil pans, Fuel pumps and systems, Electronic monitors and control systems. The Seller warrants to the original buyer of the product (the "Buyer") that it will repair or replace, free of charge, any product which has a defect in material or workmanship within the warranty period described below.

A defect is defined as a condition within the product that would render the product inoperable under normal conditions of use and service. The Seller's responsibility under this Warranty is limited to the repair or replacement, at the Seller's option, of any warrantable product returned prepaid with a complete service history and proof of purchase. A valid proof of purchase is a dated bill of sale or receipt.

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination. The Seller will be the final authority on the approval of all warranty claims hereunder. The issuance of a RMA number does not represent an approval of a warranty claim. All repaired or replaced products will be returned to the Buyer freight collect. Accepted warranty products, which have been replaced, will become the sole property of the Seller.

Until the Seller has approved a warranty claim, the Buyer will be responsible for all costs. Replacement parts and the labor costs incurred by the removal and replacement of the product while performing warranty work will be the responsibility of the Buyer. In no case does the obligation of the Seller exceed the original purchase price of the product as indicated on the original bill of sale or receipt. Under no circumstances will the Seller be liable for any travel time incurred in diagnosis for defects, or any other contingent expenses.

Once the claim is approved Labor costs incurred will be considered for the removal and replacement of a eligible part while performing warranty work, at a rate of 55.00 per hour at authorized centers with prior approval of the Seller. Freight is FOB Abbotsford, B.C. Canada.

To the extent permitted by law, the Buyer hereby waives all rights other than those expressly set out herein and acknowledges that this warranty sets out the Buyer's exclusive remedies with respect to products covered by it. This warranty shall not be extended, amended or varied except by written instrument signed by the Seller and the Buyer.

The Seller will administer warranty requests on products sold by the Seller and not manufactured by the Seller by forwarding claims made by a Buyer under the manufacturer's warranty to the manufacturer. The final disposition of such claims will be made by the manufacturer and ruled by the laws of British Columbia, Canada.

This warranty is limited to the original purchaser of the product and is not transferable to subsequent owners. Specifically excluded from this warranty are failures of products caused by misuse(transmissions are limited to 400RWHP), misapplication, negligence of the Buyer, accidents, modification, abuse, improper storage, installation, repair or operation, use of unauthorized parts or other mistreatment of the Buyer or his agent. This warranty does not cover deterioration of plating, paint or any other coating or parts that are subject to normal wear and tear, such as light bulbs, fuses, bearing wear, seal wear, etc.

Except as set forth herein or in our parts outline, the Seller disclaims any implied warranties of merchantability and fitness for a particular purpose. The Seller also disclaims any liability for incidental or consequential damages including but not limited to, repair labor, rental vehicles, hotel cost or any other inconvenience cost. To the extent permitted by law, this warranty is in lieu of all other warranties or guaranties, either expressed or implied, included the implied warranties of merchantability and fitness for a particular purpose and shall not extend to any Buyer or to any person other than the original purchaser residing within the boundaries of the continental U.S. or Canada. As well the seller is not responsible or obligated to updated previously manufactured parts that are currently under the above warranty.

IN THE EVENT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT OR IS NOT SASTISFIED WITH THE PRODUCT, THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL PARTS REFUND. THE SELLER OR INSTALLER IS NOT RESPONSIBLE FOR INCIDENTAL CHARGES SUCH AS OUTGOING OR INCOMING FREIGHT, RE & RE LABOR OR ANY OTHER COSTS IN RELATION TO THE PRODUCT. NOTE THAT THIS GUARANTEE WILL BE VOID IF THE USER BREACHES THE CONDITIONS IN THE SECTION LABELED "NOT COVERED UNDER THIS WARRANTY" AND IS ONLY APPLICABLE ON THE PRODUCTS THE SELLER MANUFACTURES.

DISCLAIMER OF LIABILITY

Other than as expressly set forth herein, the Seller, together with its distributors, jobbers and dealers shall in no way be responsible for the product's proper use and service. In no event shall the Seller be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not the Buyer was advised of the possibility of damage, arising or resulting from the use or performance of the product, and the Buyer hereby waives any and all such claims.

The Buyer acknowledges that he/she/it is not relying on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that the Seller has no liability that will extend beyond the scope of the limited warranty contained herein, and the Buyer hereby waives all remedies or liabilities, expressed or implied, arising by operation of law or otherwise, (including, without limitation, any obligations of the Seller with respect to fitness for any particular purpose; merchantability; and special, incidental, indirect or consequential damages) or whether or not occasioned by the Seller's negligence.

The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages related to the Buyer's use of the product. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this Agreement and the Buyer agrees to indemnify the Seller and hold the Seller harmless from any claim related to the product and its use or performance. Under no circumstances will the Seller be liable for any damages, liabilities, costs or expenses incurred as a result of by reason of the use, performance or sale of the product, including without limitation, any damages, liabilities, costs or expenses incurred by reason of the Buyer's negligence related to those uses of the product as a result of the removal of the speed limiter.

The Seller assumes no liability regarding the improper installation or misapplication of the product. It is the installer's responsibility to check for proper installation, and, if in doubt, contact the manufacturer.

Limited Warranty Details				
	Parts	Labour		
Product Name	(Months/Miles) ¹	(Months/Miles) ^{1, 2}	Notes	
Torque Converters (Dodge)	24/24,000	12/12,000	Limited to 400RWHP	
Torque Converters (Ford & Allison)	12/ 12,000	12/ 12,000	Limited to 400RWHP	
Transmissions	12/ 24,000	12/ 24,000	Limited to 400 RWHP	
Extended Warranty Package (Transmissions & Torque Convertor)	36/ 100,000	36/ 100,000	Limited to 400 RWHP	
Race Transmissions	12/ 24,000	Not Eligible		
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000		
Transmission Pans	12/ 24,000	Not Eligible		
Auto / Torq / Towloc's	12 / 24,000	Not Eligible		
Flex Plates	12 / 24,000	Not Eligible		
Injectors & Injection Pumps	12 / 24,000	12/ 24,000	Race Pumps 90 days parts/No labour	
Tuners and Chips	Manufacturer ³	Not Eligible		
X-Monitor / Cool Down Timers	12/ 24,000	Not Eligible		
Intake / Exhaust Manifolds	12/ 24,000	Not Eligible		
Exhaust Kits	24 Months	Not Eligible	Surface rust not eligible	
Turbo Guards / Boost Builders / Waste Gate Kits	12/ 24,000	Not Eligible		
Intercoolers / Hoses / Clamps	12/ 24,000	Not Eligible		
Transmission Coolers	Manufacturer ³	Manufacturer ³		
Manual Transmission Clutches	Manufacturer ³	Manufacturer ³		
Short Shifters	12/ 24,000	Not Eligible		
Engine / Head Stud kits	Manufacturer ³	Manufacturer ³		
Engine Brakes	24/ 24,000	12/ 24,000		
Steering Stabilizers / Sway bars	12/ 24,000	Not Eligible		
Boost Coolers	Manufacturer ³	Manufacturer ³		
Gauges and Mounts	Manufacturer ³	Manufacturer ³		
Performance Turbos	12/ 12,000	Not Eligible		
MaxFlow Fuel Pumps	60/ 75,000	Not Eligible		
Auxiliary Fuel Pumps	12/ 12,000	Not Eligible		

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination.

¹ Warranty is based on whichever occurs first (Months or Mileage).

² Prior approvals must be given to qualify for labour reimbursement.

³ As per Manufacturer's warranty