

Installation Manual
'03-'09 Double "X" Ladder Bars
P/N DXL-0309



2003-2009 DODGE CUMMINS



GDP Double "X" Ladder Bars

Installation Instructions
'03-'07 Double "X" Ladder Bars p/n DXL-0309

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Safety Guidelines!

WARNING! Always secure the vehicle from rolling.

WARNING! Always disconnect vehicle batteries before working on electrical components.

WARNING! Always wear safety glasses when operating power tools such as drills and grinders or using punches and chisels.

WARNING! Always properly secure fuel lines and wiring to prevent chaffing.

WARNING! Always have a fire extinguisher available when working with fuel systems.

WORK SAFELY!

Ladder Bar Kit Contents



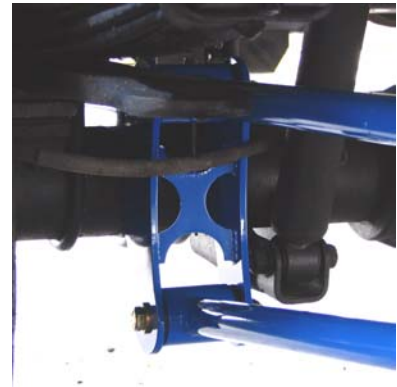
One complete ladder bar assembly is shown. Please double all quantities pictured above. Shown with bushing and inserts installed.

<u>Qty</u>	<u>Item Description</u>
2	GDP Double "X" Bars
2	Sled Puller HD Rear Axle Mounts
2	Front Frame Pivot Mounts
2	Pivot Dog Bones
16	Poly Bushing Halves
8	Metal Bushing Inserts
8	1/2" x 4-1/2" Gr-8 NF Bolts (zinc)
8	1/2" NF Nyloc Nuts (zinc)
16	1/2" Heavy Washers (zinc)
4	2-3/4" Square U-Bolts
4	4" Round U-Bolts
16	Thick U-Bolt Nuts
16	Heavy U-Bolt Washers

Please check your parts inventory against the above parts list before beginning your installation.

Double “X” Ladder Bar Installation

- 1) Secure vehicle from rolling.
- 2) Insert two poly bushing halves in each bar eyelet and in the ends of the dog bone assemblies. We highly recommend lubricating each bushing half with heavy grease or your favorite moly lube before assembly. Water proof extreme pressure marine grease is recommended if you don't have moly lube.
- 3) Insert one metal bushing in each set of poly bushings. This will help retain the bushing halves in the bar and dog bone ends. Again, we recommend lubricating each metal insert (inside and out) with your favorite grease or moly lube.
- 4) Pre-assemble one bar and rear mount using the supplied 1/2” hardware for the driver side of the vehicle. Use one heavy plated washer under the head and nut on all bushing connections. This will protect the powder coat from marring during bolt tightening. Leave the bolts loose at this time.
- 5) Place the driver side bar under the vehicle. Place the rear mount over the rear axle and centered under the rubber bump stop. Loosely install the two 4” round u-bolts using the supplied black washers and heavy nuts.
- 6) Move to the passenger side. Place the other axle mount over the rear axle and loosely install using the supplied 4” round u-bolts and hardware. Snug the u-bolts enough to hold the bracket in position.
- 7) Loosen the emergency brake cable retainer bracket on the axle enough for the alignment tab to clear the hole and allow the cable to be rotated down slightly.
- 8) Install the ladder bar to the passenger side bracket with the e-brake cable between the bar legs using the supplied 1/2” plated hardware. (Old style bracket shown.)
- 9) Locate the front frame brackets in the mounting kit. The front frame brackets are installed with the alignment plate on the outside of the vehicle frame.
- 10) Install the frame brackets to the frame directly above the front connection point of the ladder bars using the supplied 2-3/4” square u-bolts and hardware. Do not tighten at this time.



Note: The driver side u-bolt must pass between the frame and fuel tank. Depending on the year of your vehicle there may be fuel lines or wiring that appears to be in the way. These items can be flexed out of the way to allow u-bolt installation.

11) Loosely connect one dog bone to each front frame bracket using the supplied 1/2" plated hardware provided.

12) Swing the bars ends up to meet the dog bones and make the connection using the remaining 1/2 plated hardware. Your bar connections should appear as shown.



13) Slide the frame bracket forward or rearward to align the dog bone straight up and down as shown. Snug the u-bolts to maintain alignment of the dog bone.

14) At this time tighten all 1/2" plated hardware and Nyloc nuts. Pivot points should be tightened to the point that no slop or movement can be felt in the bushings.

15) Tighten the front frame mount u-bolts to 50 ft-lbs or until a very slight upward flex can be seen in the plate resting against the bottom of the frame. Due to variances in torque wrenches you must keep an eye on the upward flex induced in the plate.

16) Tighten the rear axle u-bolts to 75 ft-lbs. For extreme hard launch applications this spec can be increased to 90 lbs if movement is seen in the rear bracket. 75 ft-lbs will cover 99.9% of the applications. Please mark the U-bolt in relation to the axle tube and check for slippage before increasing the torque spec.

17) On the passenger side of the rear axle rotate the e-brake cable retainer forward until the cable no longer makes contact with the bar assemblies. The cable retainer has a small alignment tab that must be removed or flattened. Re-tighten the cable retainer.

18) Double check all connection to make sure that no hardware has been missed.

19) Test drive the vehicle.

20) Recheck all mounting hardware upon your return and at 500 miles.

Enjoy the improved ride, handling and traction provided by the GDP Double "X" Ladder Bars! If you have any problem or questions please contact Glacier Diesel Power at 509-993-4923. Thank you for your business and I look forward to helping you with your future accessory needs.

Sincerely,

Richard Martin
GDP

GLACIER DIESEL POWER
DISCLAIMER OF LIABILITY

Other than as expressly set forth herein, Glacier Diesel Power (hereafter collectively, "SELLER") shall in no way be responsible for the PRODUCT'S proper use and service. In no event shall SELLER be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not BUYER was advised of the possibility of damage, arising or resulting from the use or performance of the PRODUCT, and BUYER hereby waives any and all such claims.

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

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

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.

LIMITATION OF WARRANTY

SELLER hereby provides the following limited warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of SELLER'S product sold herewith. The SELLER shall be in no way responsible for the product's open use and service and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by SELLER and BUYER.

The Warranty is Limited to ninety (90) days from the date of sale and limited solely to the parts contained within the product's kit. **Powder Coat finishes are not covered under warranty.** All products that are in question of Warranty must be returned shipping prepaid to the SELLER and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Glacier Diesel Power.

Under no circumstances shall the SELLER be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

Under no circumstances will the SELLER be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND. THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.