



BD DODGE CUMMINS PERFORMANCE
EXHAUST MANIFOLD
Installation Instructions

Application List		
1994-1998	12V	1045980
1998 $\frac{1}{2}$ -2002	24V	1045985

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

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 1994-1998 12V Performance Manifold (BD# 1045980)				
1405980	1405981	1405982	1405986	1462440
				
12V Manifold	SS Allen Bolts (35mm)	SS Washers	45mm Bolt	Nut
Qty: 1	Qty: 12	Qty: 12	Qty: 2	Qty: 2

DODGE 1998-2002 24V Performance Manifold (BD# 1045985)			
1405985	1405981	1405986	1405982
			
24V Manifold	SS Allen Bolts (35mm)	SS Allen Bolts (45mm)	SS Washers
Qty: 1	Qty: 2	Qty: 2	Qty: 4

1405983	1405984	1130055	1604102
			
Coolant Bracket	Coolant Bracket Bolt	Nut	Lock Washer
Qty: 1	Qty: 2	Qty: 1	Qty: 2

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

Options

Description	Part #
12V Exhaust Manifold Gasket Set	1045981
24V Exhaust Manifold Gasket Set	1045986

Installation

Remove the intake air hose from the front of the turbo and disconnect the coolant line brackets from the stock manifold.

Now disconnect the turbo from the stock manifold by removing the 4 15mm nuts. *Note that you do not need to remove the turbo from the engine compartment.*

Once the turbo is disconnected from the manifold, remove the manifold by removing all the bolts using a 13mm socket.

Once the manifold is removed, clean the head and turbo flange surfaces of any debris.

Remove the two studs from the turbo exhaust housing and discard.

Remove the two studs from the stock manifold and install them into the same hole location of the performance manifold.

INSTALL 6 NEW GASKETS IN BETWEEN THE HEAD AND THE MANIFOLD

Install the new performance manifold utilizing the factory bolts and spacers. You will need to use the two 10x35mm long stainless Allen bolts and washers for the two top mounting holes of the center section of the manifold. Torque bolts to 35 ft/lbs.

INSTALL A NEW GASKET IN BETWEEN THE TURBO AND THE MANIFOLD

Place the turbocharger onto the performance manifold, the two studs should be inserted in the turbocharger flange. Re use the two 15mm factory nuts.

Use the remaining two 10 x 45mm Stainless Allen head bolts and washers to secure the turbocharger to the manifold. Tighten to 35 ft/lbs.

After installation is complete, re-install the coolant line brackets.

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

On 24 Valve applications you will need to use the supplied relocation bracket to support the coolant hose support. Use the supplied nuts and bolts to secure the bracket to the coolant support.

Re-install intake air hose.

RE-TORQUE ALL BOLTS AFTER AT LEAST ONE HEAT CYCLE

BD ENGINE BRAKE, INC. LIMITED WARRANTY STATEMENT

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

DISCLAIMER OF LIABILITY

BD Engine Brake Inc., its successors, distributors, jobbers, and dealers (hereafter "**BD**") shall in no way be responsible for the product's proper use and service. THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.

BD disclaims any warranty and expressly disclaims any liability for personal injury or damages. **BD** also disclaims any liability for incidental or consequential damages including, but not limited to, repair labor, rental vehicles, hotel costs, or any other inconvenience costs by reason of use or sale of any such equipment. 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 **BD** and to hold **BD** harmless from any claim related to the item of any equipment purchased.

This warranty shall not apply to any unit that has been improperly stored or installed, or to misapplication, improper operation conditions, accidents, neglect, or which has been improperly repaired or altered or otherwise mistreated by the **BUYER** or his agent. **BD** also assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer.

LIMITATION OF WARRANTY

BD Engine Brake Inc. (hereafter "**BD**") warrants to the **BUYER** that any parts purchased shall be free from defects in material workmanship. A defect is defined as a condition within the product that would render the product inoperable. **BD** gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of **BD's** product sold herewith. **BD** 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 **BD** and the **BUYER**. **BD** will not warranty the manifold due to misuse, excessive temperatures, excess load conditions or rust or discoloration.

The Warranty is Limited to one (1) year from the date of sale. Until BD has approved the claim, the consumer may be responsible for these costs.

A Return Material Authorization (RMA) number, obtained in advance from **BD**, must accompany all products returned for warranty consideration. All products must be returned, shipping prepaid, to **BD** and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by **BD** and repaired or replaced product will be returned to the customer freight collect. Accepted warranty units, which have been replaced, become the sole property of **BD**.

This warranty is in lieu of all other warranties or guaranties, either expressed or implied, and shall not extend to any consumer or to any person other than the original purchaser residing within the boundaries of the continental U.S. or Canada.

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.

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