



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

UNLESS AN EO# IS LISTED, THIS PRODUCT IS LEGAL IN CALIFORNIA FOR RACING VEHICLES ONLY, WHICH MAY NEVER BE USED UPON A HIGHWAY.

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

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.

DODGE 1994-1998 12V Performance Manifold (BD# 1045980)				
1405980	1405981	1405982	1405986	1462441
				
<i>12V Manifold</i>	<i>SS Allen Bolts (35mm)</i>	<i>SS Washers</i>	<i>45mm Bolt</i>	<i>Nut</i>
Qty: 1	Qty: 12	Qty: 12	Qty: 2	Qty: 2

DODGE 1998-2002 24V Performance Manifold (BD# 1045985)			
1405985	1405981	1405986	1405982
			
<i>24V Manifold</i>	<i>SS Allen Bolts (35mm)</i>	<i>SS Allen Bolts (45mm)</i>	<i>SS Washers</i>
Qty: 1	Qty: 2	Qty: 2	Qty: 4
1405983	1405984	1130055	1604102
			
<i>Coolant Bracket</i>	<i>Coolant Bracket Bolt</i>	<i>Nut</i>	<i>Lock Washer</i>
Qty: 1	Qty: 2	Qty: 1	Qty: 2

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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.

You may have to adjust the manifold to head alignment. Bolt the manifold center piece to the head, then use a plastic mallet to align the end/outside manifold pieces.

INSTALL 6 NEW GASKETS IN BETWEEN THE HEAD AND THE MANIFOLD. THE RIDGE ON THE GASKETS CAN FACE EITHER THE HEAD OR 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. THE RIDGE ON THE GASKET CAN FACE EITHER THE MANIFOLD OR TURBO.

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

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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.

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