

Dodge 2004½ Turbo Mount Exhaust Brake (2023139)



2004½-05 Dodge Cummins

BD Turbo Mount Exhaust Brake

Part# 2023139

Serial Number: _____

Date Purchased: _____

Purchased From: _____

Installed By: _____

OWNER'S MANUAL – LEAVE IN GLOVE BOX

Instruction Manual Part # I2023139

BD Engine Brake, Ltd.

Plant Address: Unit A10, 33733 King Rd., Abbotsford, BC, Canada V2S 7M9

USA Shipping Address: #88-446 Harrison St., Sumas, WA 98295 | USA Mailing Address: PO Box 231, Sumas, WA 98295

Phone: (604) 853-6096 | Fax: (604) 853-8749 | Internet: www.bd-power.com

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Welcome

Thank you for purchasing a BD Exhaust Brake. This manual is divided into different areas to assist you with your installation and operation of your braking unit. We strongly suggest that you write down the kit and serial numbers of your unit in the spaces provided and retain this manual for any future reference.

**** Please fill out and mail registration card as soon as possible. ****

Special Tools Required

- Measuring tape or ruler
- Drill with 1/8", 3/16" bits and Unibit
- Sawsall or hacksaw
- Crimping Pliers
- Test light
- ¼" Drive Socket Set
- Small bladed flat tip screwdriver
- Welder

Kit Contents

- Valve Assembly
- Control Kit
- Switches & Wiring Harness
- Pump Control Kit
- Exhaust Pipe Adapter Kit

Accessories

Description	Part Number
Manual Transmission Shifter Switch Kit	1300210
AutoLoc Converter Lock-up Clutch Kit (1994+)	1030390
TowLoc Transmission & Converter Package	CALL
X-Monitor Digital Gauge Package	1085220
Brake Pressure Gauge Kit	1030550
Boost Pressure Gauge Kit (30lbs.)	1030570
Transmission Gauge Kit (Automatic Transmission)	1030583
Exhaust Temperature Gauge (Pyrometer)	1030512

Pre-Installation

To prevent damage to electronic components, it is recommended that you disconnect both negative battery terminals before starting.

Please read this manual thoroughly before installing this exhaust brake.

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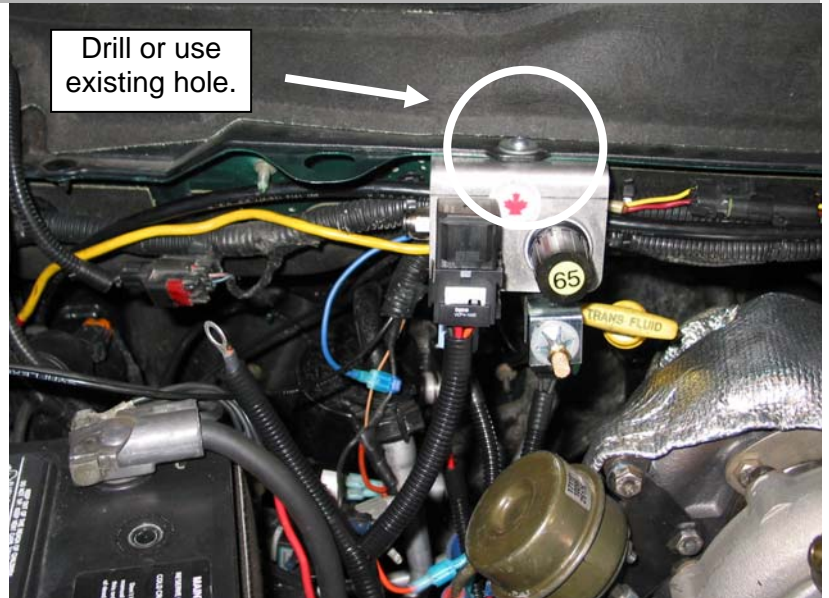
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REGULATOR INSTALLATION

Locate the large oval hole on the passenger side of the vehicle near the upper cowl of the firewall. To the right of this you can either drill a 3/16" hole or use the existing hole by removing the factory plastic locking insert.

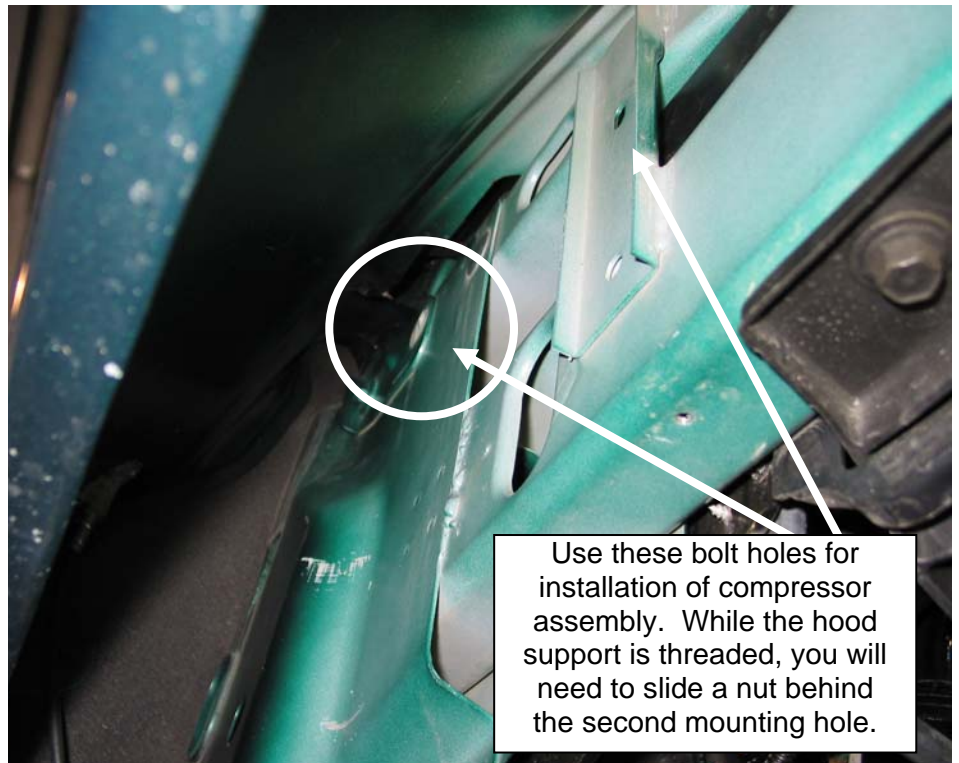
Install the regulator assembly underneath the hole (shown on figure to the right). The lock washer and flat washer should be installed on top of the plastic cowl with the Robertson screw holding everything in place.



AIR COMPRESSOR MOUNTING INSTALLATION

You will need to remove the inner front fender well on the passenger side of the vehicle. There are eight bolts holding the lining in place. If you can put the vehicle on a hoist about 3 feet above the ground it will ease this installation.

Locate the hood support bolt up inside of the fender well; it is very close to the bottom of the radio antenna. Remove the bolt closest to the battery tray or closest to the front of the vehicle. Slide the compressor assembly up into this space.



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Route the wires and hoses through the existing hole **before** mounting the compressor bracket.

The wires and hoses must be fed up through the existing hole before tightening the compressor into place. Once this is done, re-install the hood support bolt. Raise the compressor assembly so that you can install the provided bolt through the frame hole onto the nut.



Slide bolt in behind the bracket and frame support. Install the nut to secure the assembly.

Tighten all bolts and secure assembly. Route the compressor pigtail wiring harness up towards the regulator assembly you previously installed. You will also need to route a small section of plastic air hose from the quick connect fitting of the air compressor to the regulator assembly. Use the wiring diagram on page 11 as a reference for the wiring of the air hoses and the electrical wiring. **NOTE:** Be sure to keep all hoses and wiring harnesses away from any moving parts or heat sources.

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IN-CAB EXHAUST BRAKE WIRING

NOTE: IF A BD TOWLOC IS TO BE INSTALLED WITH THIS BRAKE YOU MUST SKIP THE WIRING SECTION IN THIS MANUAL AND FOLLOW THE TOWLOC INSTRUCTIONS FOR CORRECT WIRING INSTALLATION. IF INSTALLING A TOWLOC GO DIRECTLY TO PAGE 12 AND CONTINUE WITH BRAKE VALVE INSTALLATION.

CRUISE CONTROL WIRING –

(2004-05 MODEL MANUAL TRANS & 2005 AUTOMATIC TRANSMISSIONS)

To obtain access to the Cruise Control wiring harness remove the lower steering column panel by removing the mounting screws and unsnapping the panel from the instrument panel.

Under the dash running vertical by the left of the steering column, locate the smaller wiring harness that runs out of the main harness.

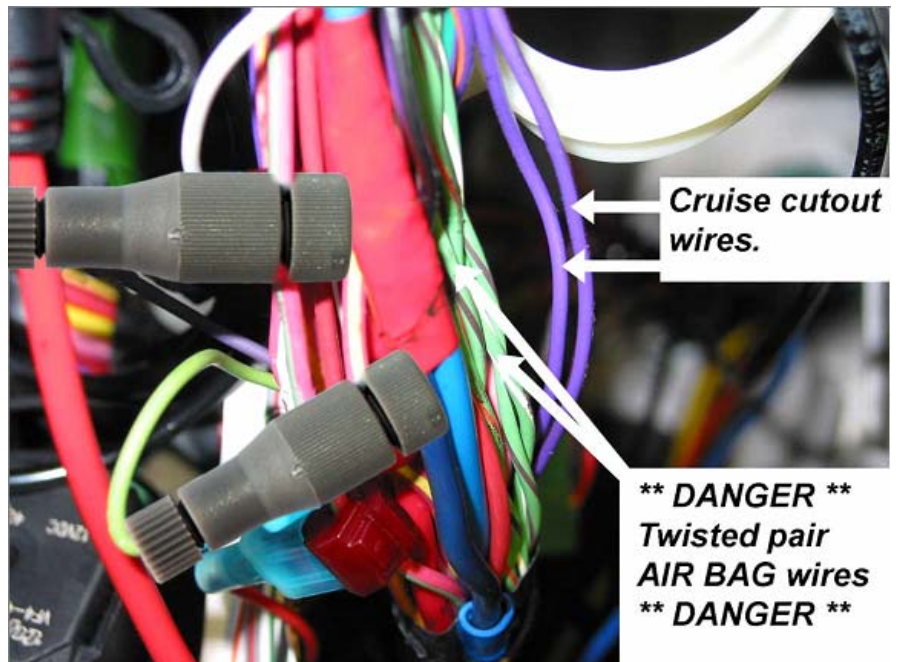
Remove some of the black electrical tape to gain access to the smaller wire bundle.

*****DANGER*****

THERE ARE 2 SETS OF TWISTED PAIR LIGHT GREEN WITH TRACER WIRES IN THIS WIRE BUNDLE. DO NOT CONNECT OR TEST THESE WIRES AS THEY ARE CONNECTED TO THE AIR BAG SYSTEM AND THE BAG MAY DEPLOY CAUSING DAMAGE AND/OR INJURY!

Remove some of the black electrical tape from the small bundle to gain access to the small **violet** wire and install a gray Posi-Tap to it. Insert the **blue** wire from the DFIV module into this connector.

In this same wiring harness, locate the **violet w/ Brown tracer** wire and install another gray Posi-Tap. Insert the **green** wire from the DFIV module into this connector.

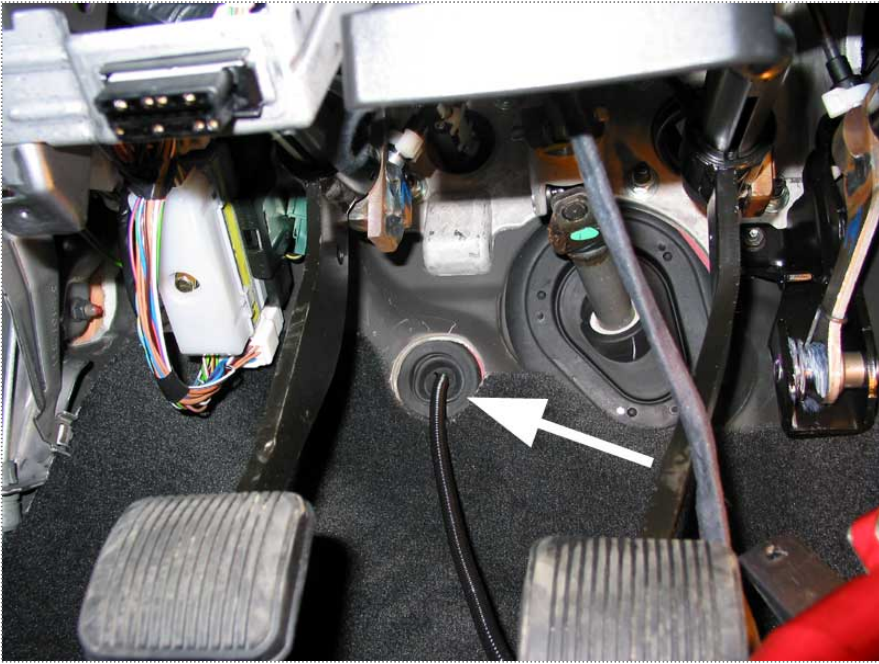


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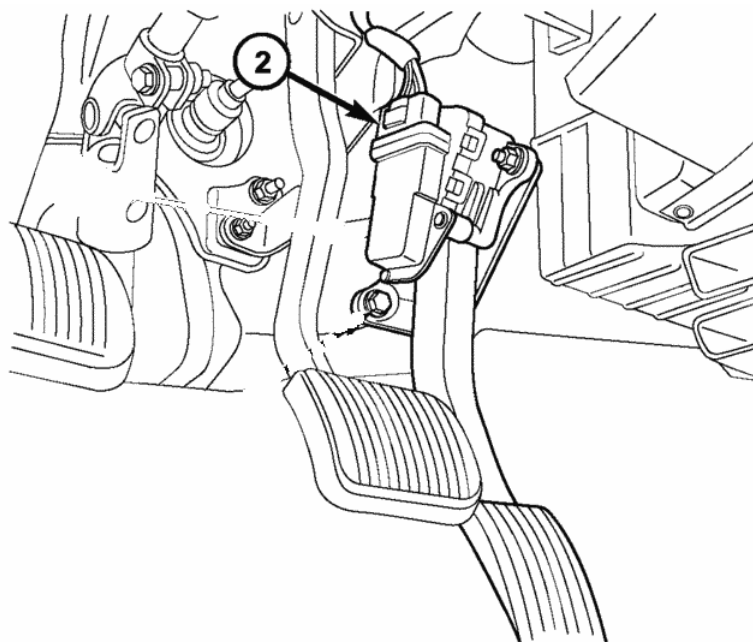
Locate a grommet on the firewall and cut an opening in it to run the loom covered wiring through the firewall.

ACCELERATOR PEDAL POSITION SENSOR WIRING

AUTOMATIC & MANUAL TRANSMISSIONS (2005 MODELS)

Route the **yellow** wire from the DFIV module to the accelerator pedal position sensor located on the accelerator pedal. Locate and connect a Posi-Tap to the correct wire color for your application. The yellow DFIV wire should now be connect to the correct APPS wire.

2005 Dodge	Pedal Wire Color	ECM
APPS Wire	BR/WT	C1 Pin 18



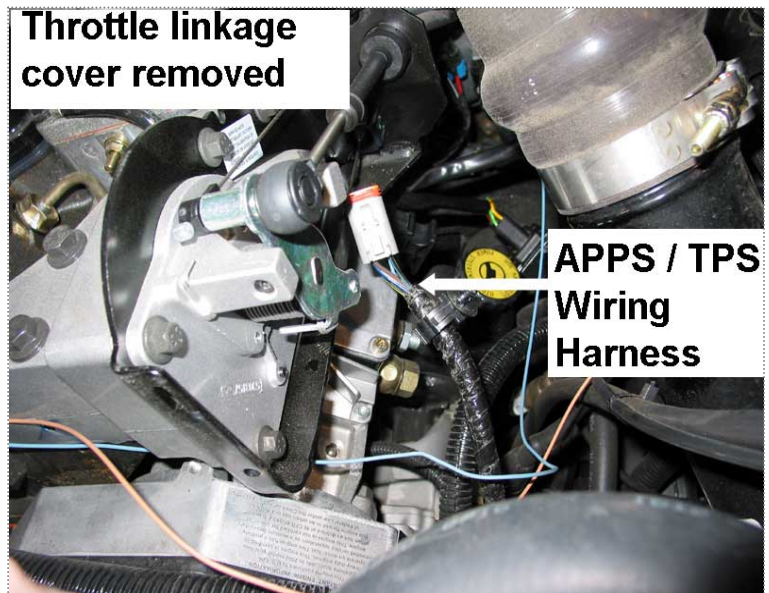
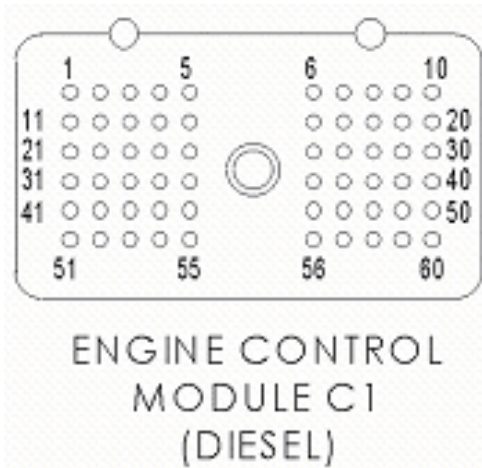
AUTOMATIC & MANUAL TRANSMISSIONS (2004.5 MODELS)

Route the **yellow** wire from the DFIV module along the driver side of the engine compartment to the throttle linkage and APPS Sensor.

Remove the cover of the throttle linkage. Locate and disconnect the wiring connector for the APPS.

2004.5 Dodge	APPS Wire Color	ECM
Manual Trans.	BR/WT	C1 Pin 14
Auto Trans.	DB/WT	C1 Pin 14

Connect the **yellow** wire from the DFIV Module to this Posi-Tap and reconnect the APPS connector. Re-install the throttle linkage cover.



MAIN SWITCH INSTALL (REQUIRED IF USING TOGGLE SWITCH)

Remove the fastening screws of the dashboard bezel and remove the covering trim by pulling back on the corners of the trim panels.

Note: Placing the transmission all the way into 1st/low gear and ensuring the tilt steering is all the way down will allow for easier removal.

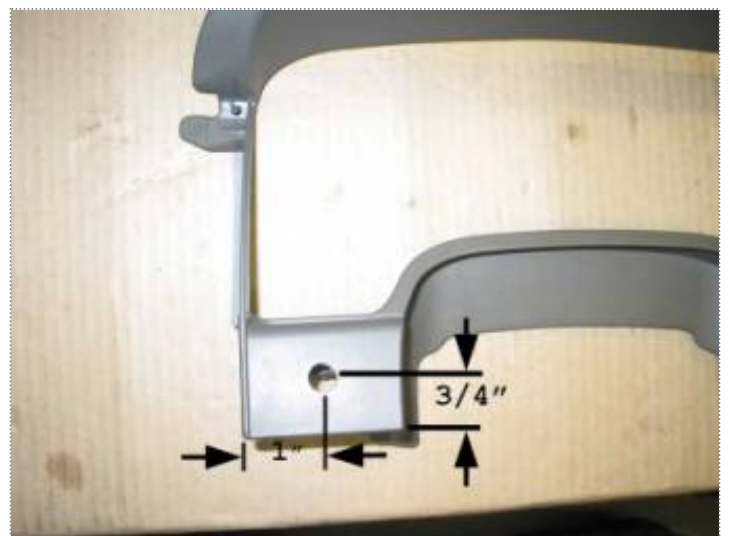


Pull the left hand and right hand dash panels away from their secured positions and let them hang.

Once the dash trim has been removed, place it on a large working surface such as a table or workbench.

Measure and mark a spot for the toggle switch 3/4" up from the bottom edge of the dash panel and 1" in from the left edge of the accessory panel as shown in the photo.

Drill a pilot hole with a 1/8" bit and finish by enlarging the hole with a Unibit to exactly 1/2".



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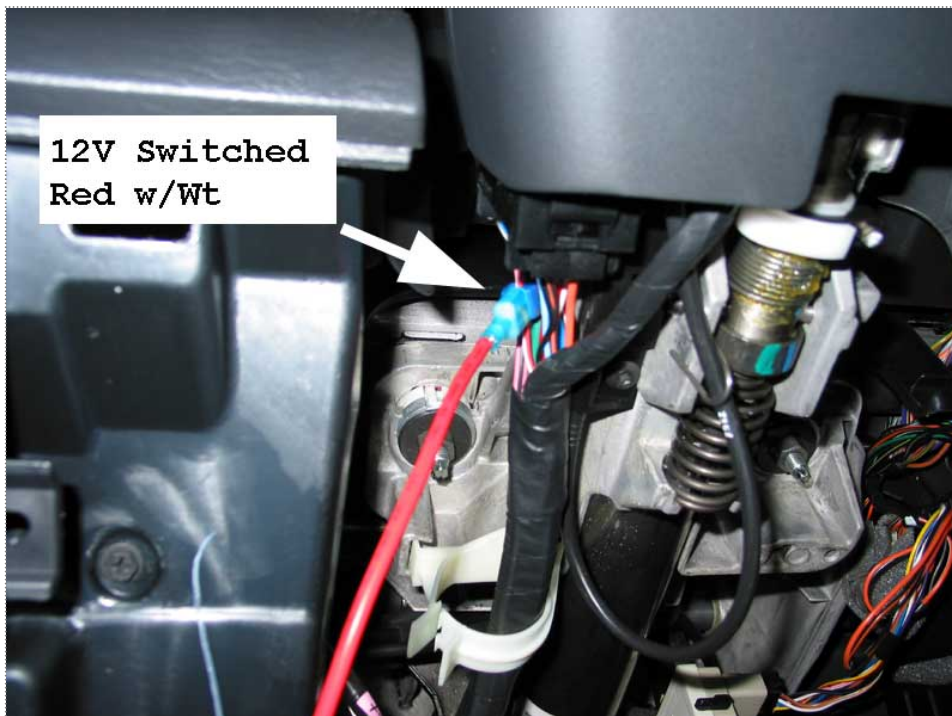
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NOTE: YOU MAY HAVE TO GRIND DOWN PART OF THE SUPPORT RIB ON THE BACK OF THE TRIM PANEL TO ACCOMMODATE THE SWITCH BODY.



Install the switch into the newly drilled hole and secure it with a lock ring, then re-install the dash trim panels by reversing the removal procedure.



Once the switch is installed, attach the ground wire to a good metal ground under the dash.

With a test light, locate a switched 12 Volt power source and install the supplied black Posi-Tap to it then attach the red, fused wire, from the switch to this Posi-Tap.

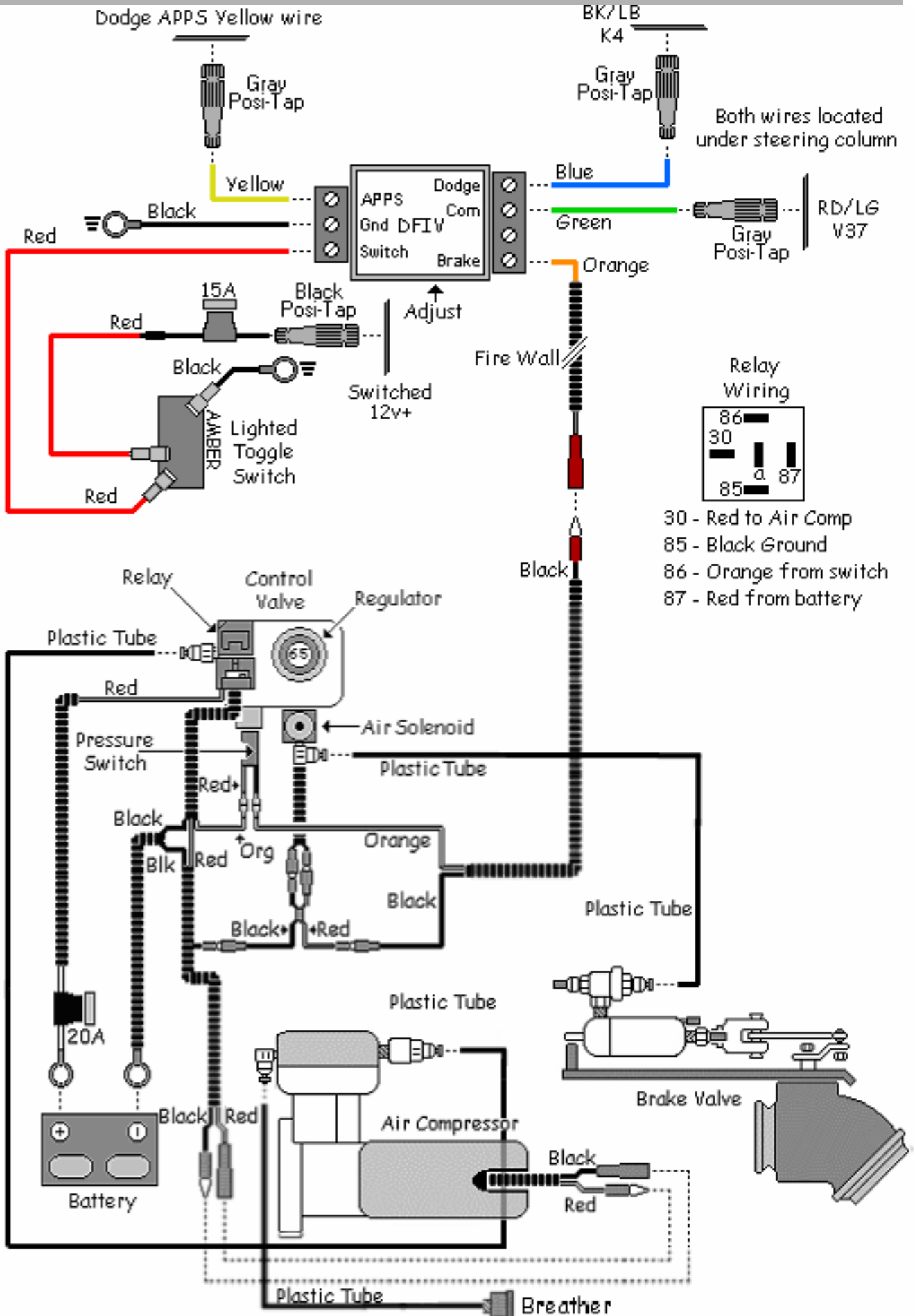
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EXHAUST BRAKE WIRING & PLUMBING DIAGRAM



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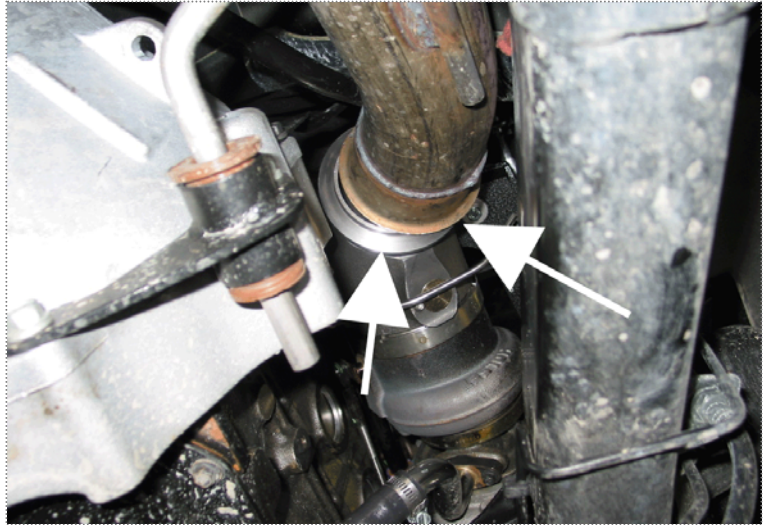
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BRAKE VALVE INSTALLATION

TO PREVENT INJURY OR DAMAGE, RAISE THE VEHICLE TO A GOOD WORKING HEIGHT AND SUPPORT IT WITH JACK STANDS OR AXLE STANDS.

From underneath the vehicle, remove the down pipe-to-turbo elbow band clamp using a 10mm socket. Support the down pipe as it may drop down slightly once the clamp is removed.



Disconnect the Mass Air Flow sensor harness and remove the plastic turbo air inlet tube. Loosen the band clamp that holds the factory exhaust elbow to the turbocharger.



Remove the exhaust elbow.

Insert the exhaust brake valve assembly in place of the factory elbow and reinstall the turbo band clamp.

Tighten all clamps that secure the brake to the flanges.



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AIR HOSE INSTALLATION

Now that the brake, pump and regulator assemblies are installed in their correct positions, we can now install the two air hoses.

Install one end of the first ¼" plastic hose into the quick-connect coupler on the brake's air cylinder and route it to the air solenoid.

One end of the second hose should already be installed into the 90° quick-connect coupler on the air compressor. Install the other end into the coupler attached to the tee fitting which connects to the pressure switch.

Included in the kit is a snorkel relocation kit, which includes a section of plastic hose and a breather filter. This filter should be routed to a clean dry location in the engine compartment. Reference the installation diagram for any instructions.

CARE MUST BE TAKEN NOT TO KINK THE PLASTIC HOSE AND TO POSITION IT WHERE IT WILL NOT MELT, RUB OR CONTACT ANY MOVING PARTS.

NOTE: Removal of the plastic hose from the quick coupler can be accomplished by pushing the colored ring towards the fitting and pulling the hose out.

CAUTION: REFER TO THE WIRING DIAGRAM ON PAGE 11 FOR CORRECT HOOK UP OF HOSES AND WIRING.

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DFIV ADJUSTMENT & TESTING

Ensure the connections of the corresponding wires to the DFIV Control Module are correct as shown in the wiring diagram.

To achieve the correct setting for the activation of the exhaust brake in relation to the throttle pedal the DFIV Module must be calibrated for your vehicle.

With the throttle at idle, start the engine and turn on brake switch. Using a small flat bladed screwdriver, turn the small adjusting screw in the DFIV Module counterclockwise or clockwise until the pump/brake JUST turns on.



CAUTION: THE ADJUSTING SCREW IS A MICRO-SWITCH THAT IS VERY DELICATE, SO TURN USING SMALL ADJUSTMENTS.

Test by revving up the engine to approximately 1200 RPM and releasing the throttle. As the accelerator pedal is applied the brake should disengage just before then engine starts to rev, indicating proper calibration of the DFIV Module with the APPS.

The brake should then activate again when the throttle pedal returns to the idle position. If it does not activate, re-adjust the DFIV Module so that it does.

Check for any exhaust leaks and recheck all connections and hoses for security and interference from moving or heated items. After about 100 miles (160 km), re-torque the flange bolts.

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IDLE PRESSURE ADJUSTMENT

Exhaust Brake pressure is preset at the factory but if more holdback performance is required with the vehicle loaded, adjust the regulator using small increments to give 50 – 55psi under load.

Test the exhaust brake pressure by installing a pressure gauge into the test port on the bottom of the brake valve. If the brake pressure is not 15 - 17psi at idle, then the pressure will have to be adjusted.

The maximum REGULATED pressure is adjusted with the pressure regulator under the hood and under driving conditions.

Turning the regulator **clockwise** will increase pressure.

Turning the regulator **counter clockwise** will decrease pressure.

*****DO NOT EXCEED 65 LBS. OF EXHAUST BACK PRESSURE*****

Always test pressure using the backpressure port running on the stainless steel line off of the brake's valve assembly, **NOT** at the regulator itself.

MAINTENANCE & TROUBLESHOOTING

To extend the life of the valve assembly, do not operate your vehicle for extended periods of time without activating the brake. We suggest activating the exhaust brake at least a couple times a day while operating the vehicle to prevent any carbon or rust build-up on internal parts of the valve assembly.

The hoses, wires, fittings and clamps should be inspected on a regular basis for any deterioration, damage or leaks. Periodically clean the filter on the Air Compressor, and, when cleaning the engine, cover the filter on the compressor to prevent moisture from entering the filter.

To increase the life of your exhaust brake we recommend daily operation. By simply switching the brake on and off a couple times a day, it will prevent the butterfly from sticking due to carbon build-up.

Following the diagrams in this manual, tracing hoses and wiring, checking continuity through electric components or checking for any lines that are disconnected, should solve any problems that may arise. If you have any problems or need replacement parts, call us at 1-800-887-5030, between 8:30am and 4:30pm Pacific Time.

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OPERATING GUIDELINES

Thank you for taking interest in the BD Engine Exhaust Brake. As a driver, you probably already know the need for extra braking power that your vehicle requires on the hills and long grades. With loads being towed behind you, the extra push when slowing down or maintaining speed on downward grades can prove to be a great strain on your vehicles hydraulic braking system, even to the point of “burn-up”. These guidelines were designed to offer you a better understanding of the benefits of exhaust brakes and are partly based upon material developed by the U.S. Department of Transportation National Highway Traffic Safety Administration.

The emphasis on today’s vehicles is to give the consumer a product that can give them usable power with fuel efficiency. But, in the transition, the vehicles have lost their natural braking power, making it more easy for the vehicle to continue to roll and harder to stop. Of course, this gets more noticeable with the increase of weight, on or behind the vehicle. This is where an exhaust brake becomes a useful tool in increasing the driveline drag of the vehicle without the use of the hydraulic brakes; a tool that with maximum use or even occasional use can reduce wear on hydraulic braking parts and at the same time increase safety.

The BD Exhaust Brake can be used to help maintain a controlled vehicle speed on a downward grade, as well as slowing the vehicle down for such times as turns or exit ramps, without you using your hydraulic brakes. **But, the exhaust brake cannot be used as a parking brake or will not bring your vehicle to a complete stop.** By using a BD Exhaust Brake, the life and effectiveness of your hydraulic brakes will increase.

This is because of the decreased use of the hydraulic brakes in situations like hills, the wear factor is reduced and there is less opportunity for your hydraulic brakes to heat up which would reduce the efficiency. When you ride your hydraulic brakes, make hard stops or have poorly adjusted brakes, this creates high temperatures and as your brakes get hotter, the more chance there is for fade or failure.

With terrain that is a series of up and down grades, the BD Exhaust Brake will aid in reducing exhaust valve warping. Because of the power needed to pull your vehicle and load up a hill, this generates a lot of heat. When you have reached the crest of the hill and are now coasting down the other side, the heated valves are too quickly cooled. With the exhaust brake engaged, the heat loss to the valves will be reduced, which can prevent valve warping.

When the toggle switch is turned to the “On” position, the valve is activated every time the driver takes his foot off of the throttle pedal. When the driver puts pressure back on the throttle pedal, the throttle switch is deactivated and the valve opens again.

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Exhaust brakes are designed to operate with the throttle at idle, not to be used in conjunction with cruise controls, and not designed to aid in gear shifting.

Such cases may cause damage to engine and/or exhaust brake. Incorporated with the BD Exhaust Brake, there is a pressure regulating system that will control the created backpressure. If the backpressure reaches the set limit of 55 psi while under engine braking, the exhaust valve will open slightly to relieve the excess pressure.

The best scenario for exhaust braking is when going down hill, select a gear that lets you maintain a constant speed with little or no use of the hydraulic brakes, or the same gear that would be used to go up the same grade of hill. This also depends on the weight, load or road conditions that the vehicle will come upon. So, in summary, by using the BD Exhaust Brake, you reduce the need for use of your hydraulic brakes in situations where you need to slow down or maintain (i.e. hills, off ramps, corners, approaching speed changes or traffic lights). Reducing the use of your hydraulic brakes in these situations will reduce the heat build up, as well as wear and damage to linings and drums. And, when you reduce these factors, you save your hydraulic brakes for when you really need them (for stopping or emergencies).

The BD Exhaust Brake is not a substitute for your hydraulic brakes and, cannot correct or compensate for poorly maintained or misadjusted brakes. But, when you need to slow down or maintain a constant speed, the BD Exhaust Brake will be a valuable and effective tool. Exhaust Brakes are more efficient at preventing rather than correcting an over speed condition.

Thank you and happy motoring.
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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**.

The warranty is limited to two (2) years from the date of sale. Labor costs incurred by the removal and replacement of the BD product, while performing warranty work, will be covered for 1 (one) year, payable at BD rates, at authorized centers and with prior approval. Until BD has approved the claim, the consumer may be responsible for these costs.

A Return Materials 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.

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