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BULLY DOG

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BULLY DOG

#1 IN PERFORMANCE

INSTALLATION MANUAL



Vehicle Application	Part#
Rapid Flow 4" Aluminized 5.9L Dodge Cummins '03-'04	182050





TROUBLESHOOTING:

If you have questions during the installation of this product, please visit www.bullydog.com/Product_Updates.php.

The latest version of these instructions can be found at the same location. Please review the Troubleshooting section on page 9 before calling technical support to cover most common issues. Technical support is available by calling 866-bullydog (866-285-5936).

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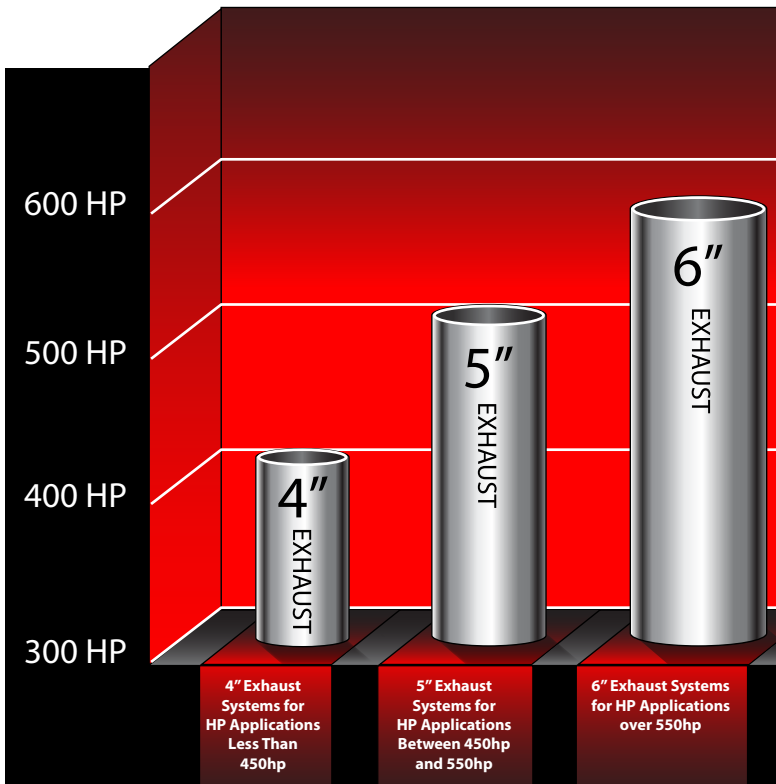
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INTRODUCTION

The Bully Dog Rapid Flow Exhaust Systems have been specially designed to allow the lowest mandrel bends in the industry. The lower mandrel bends allow increased air flow which reduces exhaust temperatures and burns more fuel in the combustion chamber. This results in adding additional horsepower and fuel economy. This instruction set covers the 4" Rapid Flow Aluminized Exhaust designed specifically for the 5.9L Cummins.

Note: This instruction set and the Rapid Flow Exhaust system included is made exclusively for the 5.9L Cummins '03-'04. In 2004 Dodge introduced a new engine half way through the model year. These instructions cover the early 2004 models without the catalytic converter.

BULLY DOG'S RULE OF THUMB FOR EXHAUST SIZES



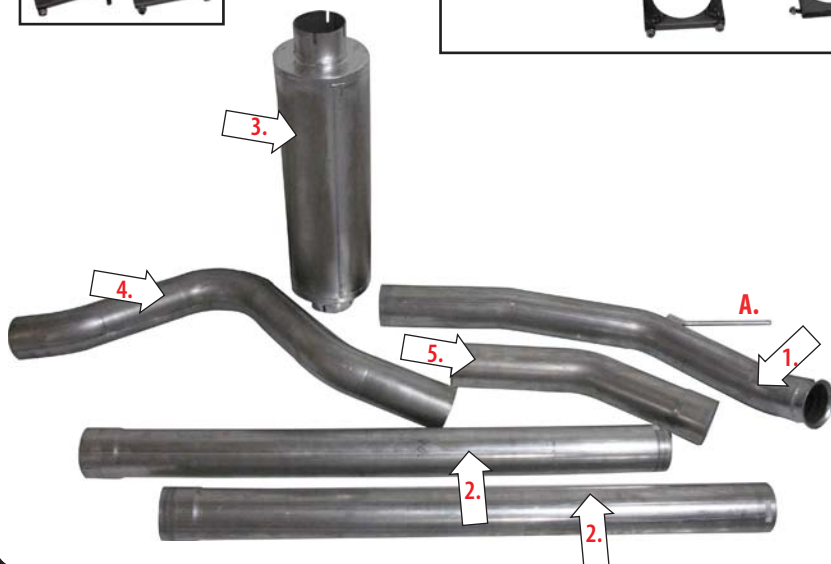
RAPID FLOW INSTALLATION

BILL OF MATERIALS

1. Down Pipe
2. Straight Pipe (2 Pieces)
3. Muffler
4. Front Piece Tail Pipe
5. Tail Pipe Tip
6. Clamps (4 pieces)
7. Hangers (3 pieces/ 4 total)
 - A. On Down Pipe
 - B. Front of Muffler
 - C. Rear of Muffler
 - D. Front Piece Tail Pipe

TOOLS NEEDED

- 9/16" Wrench
- Sawzall
- Silicone Spray Lubricant
- Channel Locks
- 7/16" Deep Socket
- Socket Wrench



REMOVAL OF STOCK EXHAUST SYSTEM

In these steps you will remove the stock exhaust system.

1. Use a sawzall to cut the exhaust directly behind the muffler.

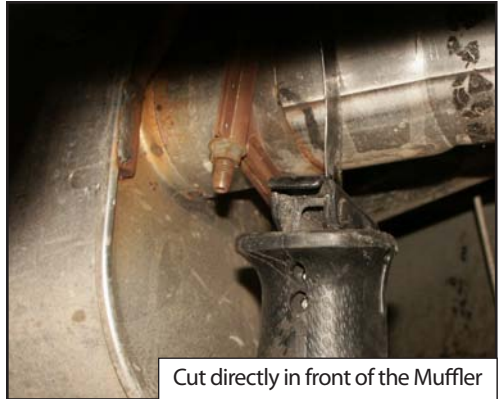
2. Cut the Straight Pipe in front of the muffler.

3. Cut the stock Down Pipe just after the bend.

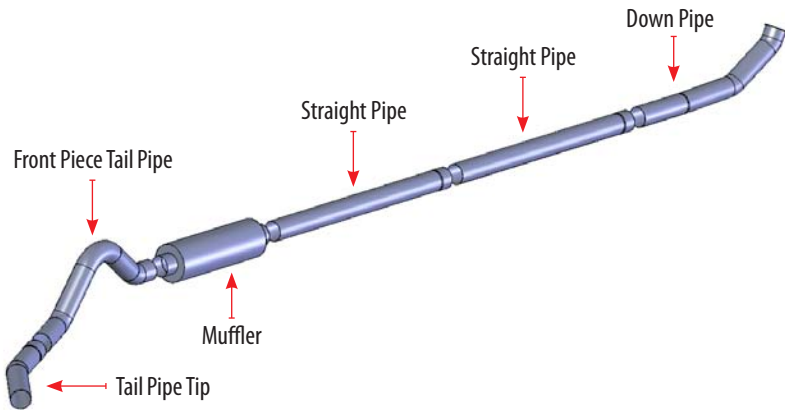
4. Loosen the stock band clamp using a 7/16" deep socket where the stock down pipe is connected to the turbo. The stock band clamp will be used later so don't remove it, just loosen it enough to remove the stock down pipe.

5. To make removing the Hangers an easier process it is recommended that you use a silicone spray lubricant to spray each of the rubber hangers holding the stock exhaust.

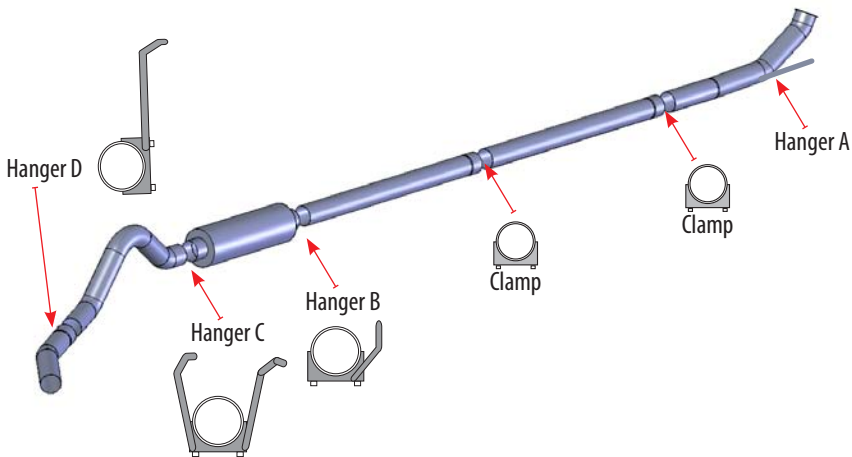
6. Remove each piece of the stock exhaust system, including the stock exhaust hangers.



QUICK OVERVIEW FULL EXHAUST



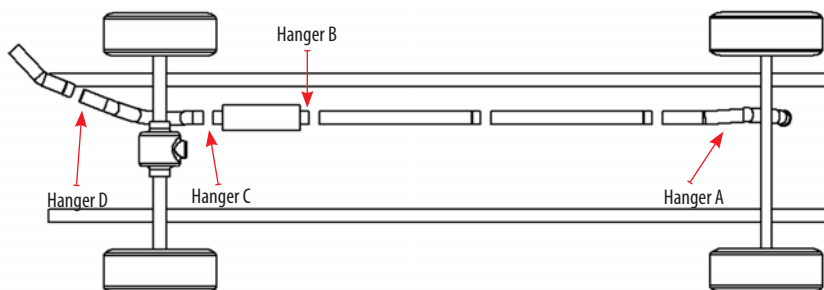
CLAMP AND HANGER PLACEMENT



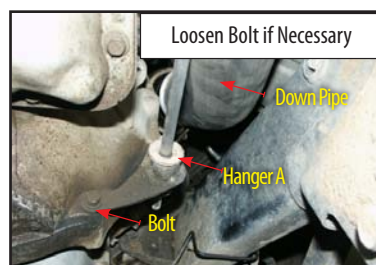
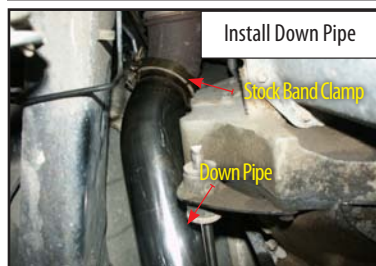
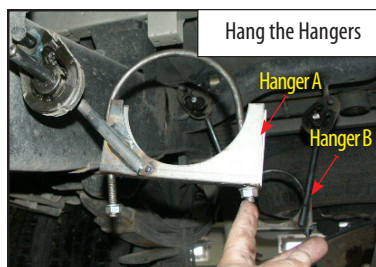
INSTALLATION OF THE BULLY DOG RAPID FLOW EXHAUST SYSTEM

In these steps you will install the Rapid Flow Exhaust System. Bully Dog's Exhaust Systems are one-cut system, meaning that you should only have to cut one pipe or less if installed correctly.

IMPORTANT: Do Not over-tighten Clamps. Too much torque will result in deformation of the exhaust. For best results when doing the installation, tighten the Clamps enough to hold the exhaust pieces in place, but don't tighten down until the entire exhaust system is installed.

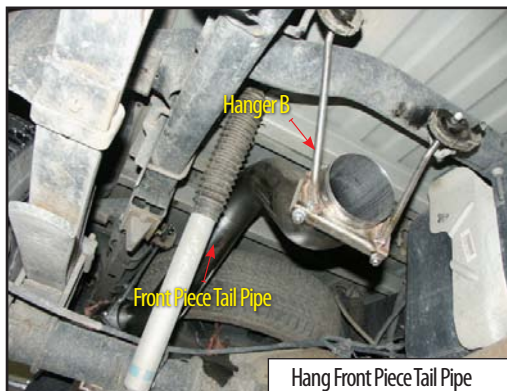


1. It is suggested that before installing the system on the truck, the Rapid Flow Exhaust System be laid out on a large flat surface to acknowledge the location of each piece.
2. Hang each of the hangers. Hanger A is welded onto the Down Pipe so skip it for now. All the other hangers will serve as a dual purpose, serving as both hangers and clamps. Hanger B will be at the front of the Muffler and Hanger C will be at the rear of the Muffler. Hanger D will be between the Front Piece Tail Pipe and the Tail Pipe Tip.
3. Install the Down Pipe by hanging it from the hanger and securing it to the turbo with the stock band clamp. When installing the Down Pipe in order to get it to seal correctly with the turbo, you may need to loosen a bolt that holds the Hanger A Grommet in place. Once everything is lined up and the stock band clamp is tighten, then tighten back up the bolt that is holding the Hanger A Grommet.
4. Install one of the Straight Pipes by connecting it to the Down Pipe with one of the supplied hangers. At this point do not tightening the clamp completely until the entire exhaust is installed.

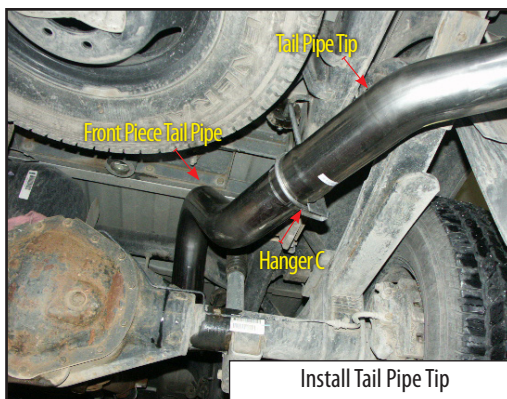


Note: At this point you will skip installing the other Straight Pipe and start at the Muffler and work back toward the rear of the vehicle.

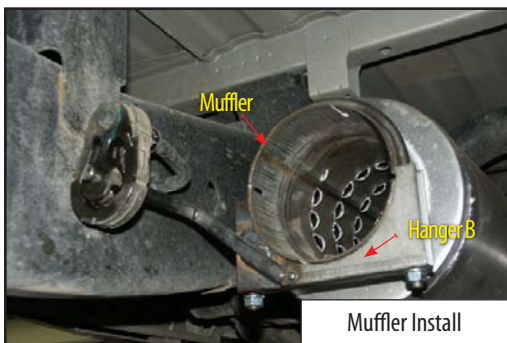
5. Install the Front Piece Tail Pipe by hanging it from Hangers C & D

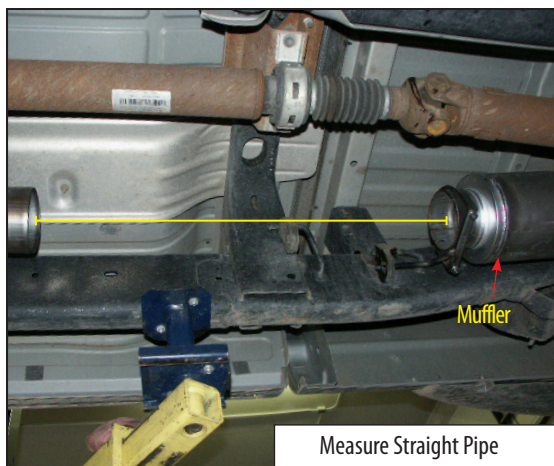


6. Install the Tail Pipe Tip by sliding it into the Front Piece Tail Pipe and tightening Hanger D.



7. Slide the Muffler into the Front Piece Tail Pipe and it will hang from Hangers B & C. Tighten Hanger C to hold the Muffler in place.





Measure Straight Pipe

8. At this point it is time to install the Straight Pipe. You will need to measure and cut the Straight Pipe for the final fit. Keep in mind on both systems when you make your final cut you will need to leave an extra 3 inches of overlap when you cut the Straight Pipe.

9. Once the entire exhaust system is installed, inspect the system to ensure that no part of the exhaust is in direct contact with the chassis or body; adjustments may be necessary.

10. Return to each of the Clamps and tighten with a 9/16" wrench. Do not over tighten the Clamps.

11. Stainless Steel Tips are available from Bully Dog to give your truck that polished, classy look.

4" Systems

Part Number: 180450

Part Number: 180291

Part Number: 180466



TROUBLESHOOTING/FAQ

CONDITION	POSSIBLE SOURCES	ACTION
Which is better a 4" exhaust or a 5" exhaust system?	General	It really depends on the application. A bigger exhaust system will allow more airflow and lower exhaust temperatures. However too large of an exhaust system without other increases in horsepower will lower back pressure and give the vehicle a sluggish start. Bully Dog recommends a 4" Rapid Flow Exhaust system for horsepower applications under 450 hp. 5" Rapid Flow Exhaust Systems are recommended for applications running between 450 to 550 horsepower.
Exhaust Rattle	Exhaust Sounds	Either one of the Clamps is not tight or the exhaust is coming in contact with the chasis or body. Adjust the exhaust to ensure that no contact is made.
Exhaust is too loud	Exhaust Sounds	If your exhaust seems too loud, Bully Dog can sell you another muffler which will allow you to double stack mufflers. This extra muffler would take place of one of the straight pipes included with this system. Part # 185011
Exhaust is not loud enough	Exhaust Sounds	If your exhaust is too quiet (and is being used exclusively for off-road use) you can purchase another staight pipe to replace your muffler. Part # 185017

WARRANTY & DISCLAIMER

REMEMBER, THIS IS A PERFORMANCE PRODUCT, USE AT YOUR OWN RISK.

This product is not intended to be used to break the law.

Do not use this product until you have carefully read the following agreement. This agreement sets forth the terms and conditions for the use of this product. The installation of this product indicates that the buyer has read and understands this agreement and accepts the terms and conditions. Never exceed recommended vehicle or tire top speed ratings.

DISCLAIMER OF LIABILITY

Bully Dog Technologies, LLC. Its distributors, jobbers, and dealers (hereafter Seller) shall be in no way responsible for the product's proper use and service. THE BUYER HERBY WAIVES ALL LIABILITY CLAIMS.

The Buyer acknowledges that he is not relying on the Sellers skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the Buyers hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise, (including without any obligation of the Seller with respect fitness, merchantability and 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. 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 to hold the Seller harmless from any claim related to the item of the equipment purchased. Under no circumstances will the Seller be liable for any damages or expenses by reason of use or sale of any such equipment.

The Seller 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.

The Buyer is solely responsible for all warranty issues from the manufacturer.

LIMITATION OF WARRANTY

BULLY DOG TECHNOLOGIES, LLC. (Hereafter "Seller") gives Limited Warranty as to description, quality, merchantability, and fitness for any particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall be in no way responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except be a written instrument signed by Seller and Buyer.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by BULLY DOG TECHNOLOGIES, LLC.

Under no circumstances will 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 incurred 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 TEN (10) 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.