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***BULLY DOG***

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# **BULLY DOG**

**#1 IN PERFORMANCE**

## **INSTALLATION MANUAL**



### **Vehicle Application**

### **Part#**

Rapid Flow 5" Aluminized Exhaust 6.6L Duramax LLY '04.5-'06

183026





## TROUBLESHOOTING:

If you have questions during the installation of this product, please visit [www.bulldog.com/Product\\_Updates.php](http://www.bulldog.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-bulldog (866-285-5936).

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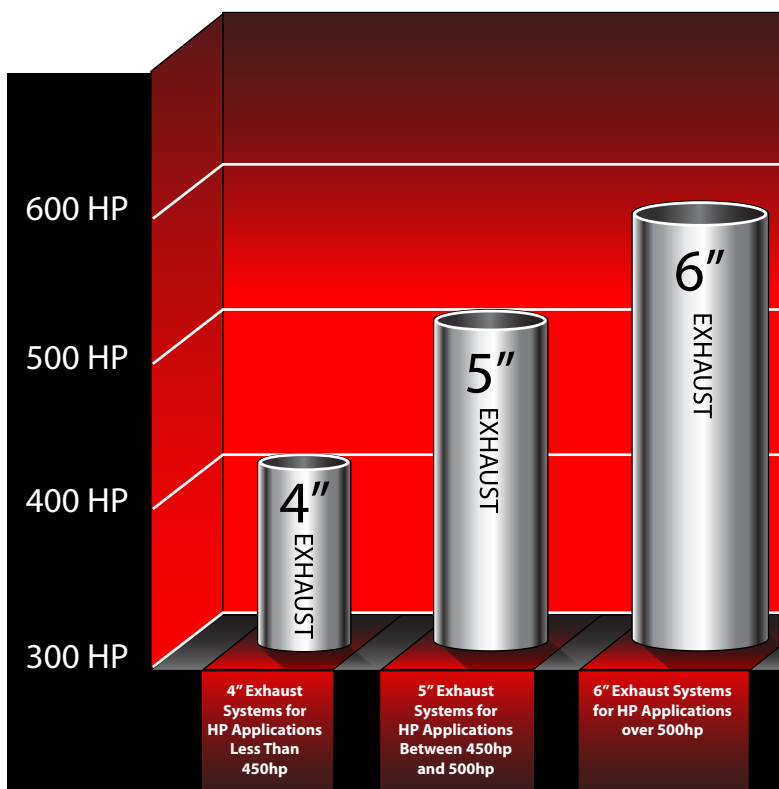
## INTRODUCTION

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, burns more fuel in the combustion chamber adding additional horsepower and fuel economy. This instruction set covers the 5" Rapid Flow Aluminized Exhaust designed specifically for the 6.6L Duramax.

Note: This instruction set and the Rapid Flow Exhaust systems included are made exclusively for the 6.6L GM Duramax LLY vehicles '04.5 - 06.

**IMPORTANT:** This Rapid Flow Exhaust will not fit on Extended Cab Short Box trucks. Call Tech Support for options before you begin install.

## BULLY DOG'S RULE OF THUMB FOR EXHAUST SIZES

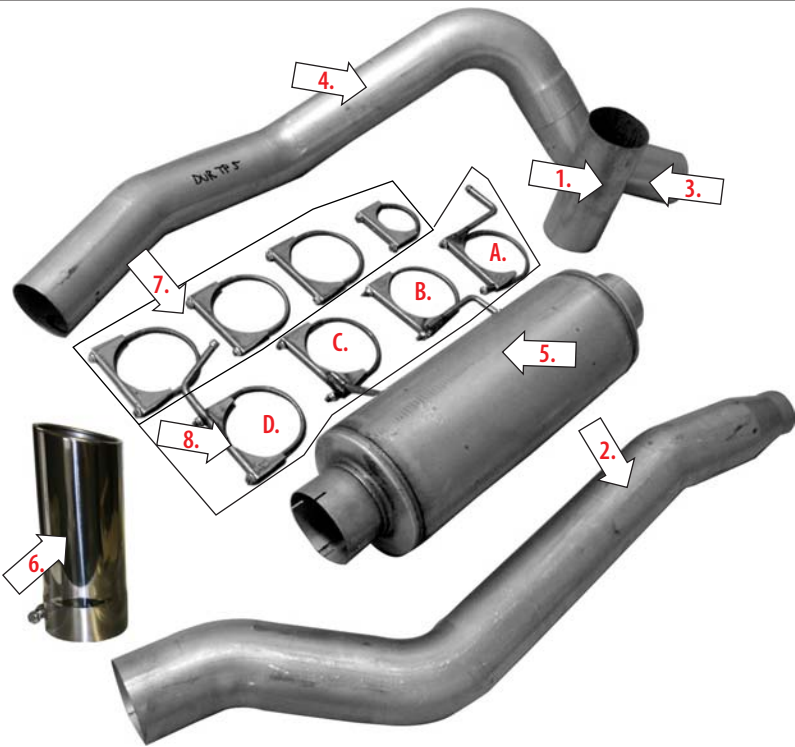


## BILL OF MATERIALS

1. Straight Pipe
  2. Cross Member
  3. Front Piece Tail Pipe
  4. Rear Piece Tail Pipe
  5. Muffler
  6. Stainless Steel Tip
  7. Clamps (4 Pieces)
  8. Hangers (4 Pieces)
- A. Cross Member #1
- B. Cross Member #2
- C. Muffler
- D. Tail Pipe

## TOOLS NEEDED

- 9/16" Wrench
- Sawzall (Recommended)
- Silicone Spray Lubricant



## REMOVAL OF STOCK EXHAUST SYSTEM

*In these steps you will remove the stock exhaust system.*

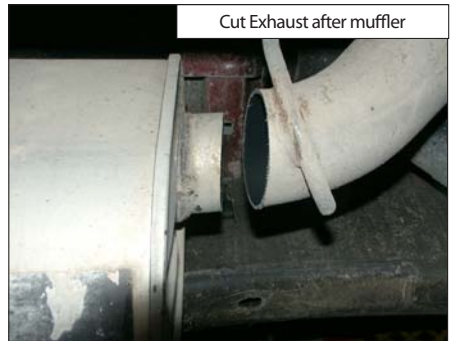
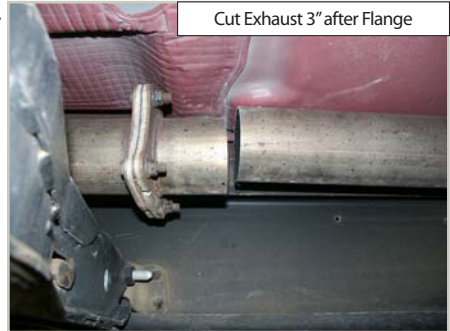
**IMPORTANT:** It is illegal in all 50 states to remove the catalytic converter.

1. Cut the exhaust system starting after the catalytic converter. Measure and cut 3 inches after the flange the clamp towards the rear of the vehicle.

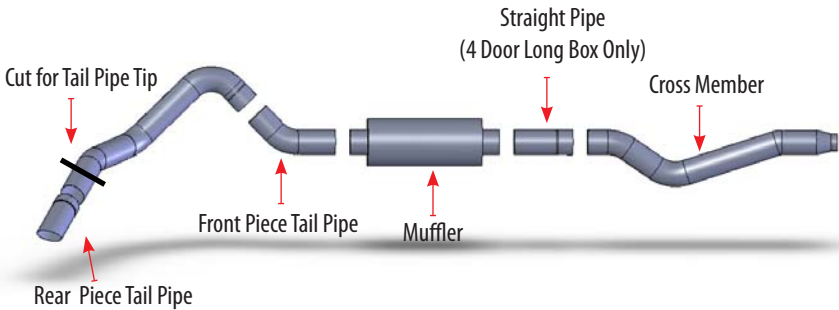
2. Use a sawzall to cut the exhaust immediately behind the muffler.

3. 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.

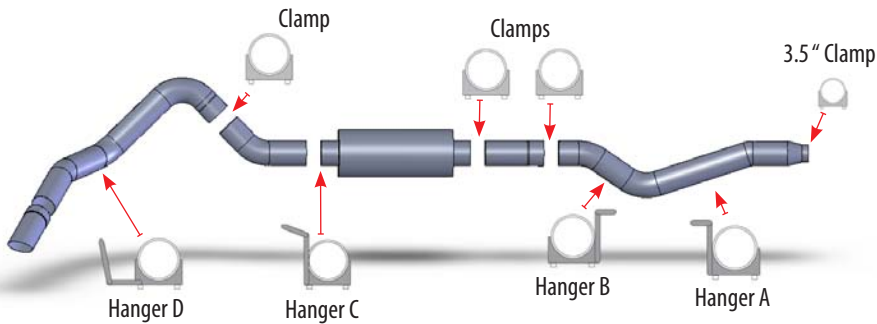
4. Remove each piece of the stock exhaust system, including the stock exhaust hangers.



**QUICK OVERVIEW FULL EXHAUST**



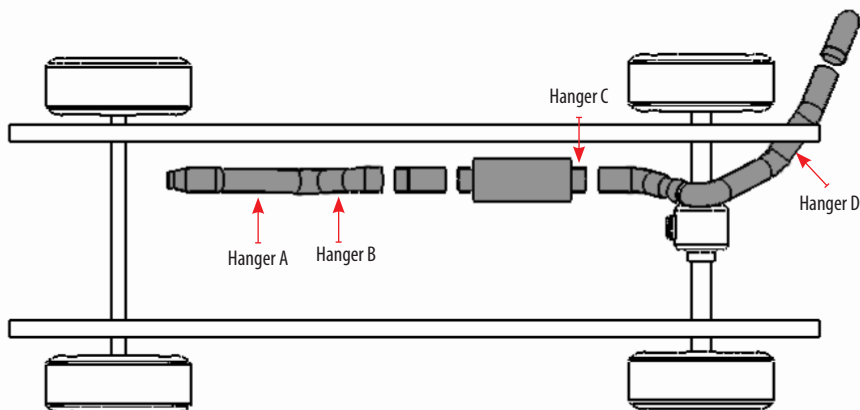
**CLAMP AND HANGER PLACEMENT**



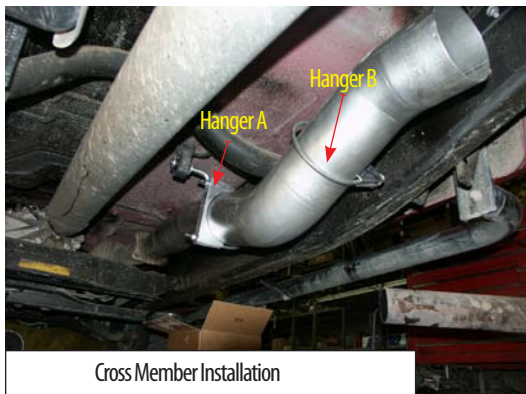
## INSTALLATION OF THE BULLY DOG RAPID FLOW EXHAUST SYSTEM

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. Place all of the supplied Hangers into their appropriate locations as shown in the above diagram. Hanger A and B will hold the Cross Member Pipe. Hanger C will also serve as a clamp between the Muffler and the Tail Pipe. Hanger D will hold the Tail Pipe after it has gone over the axle.



Cross Member Installation

3. Slide the 3.5" clamp onto the end of the Catalytic Converter
4. Fit the Cross Member pipe onto the Catalytic Converter, ensuring that the pipe follows the bend of the truck's cross member. Tighten the Clamp that is nearest to the Catalytic Converter.

**NOTE:** At this point it is recommended to now start from the rear of the truck and work forward. The included straight pipe will be the piece that will be cut if required on Bully Dog's one-cut system.

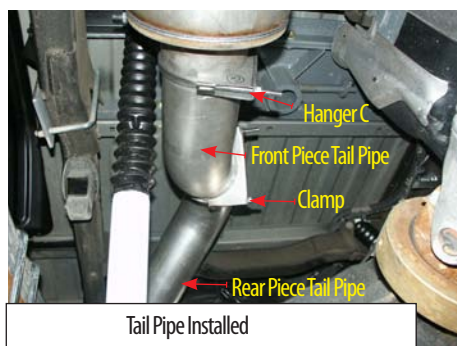
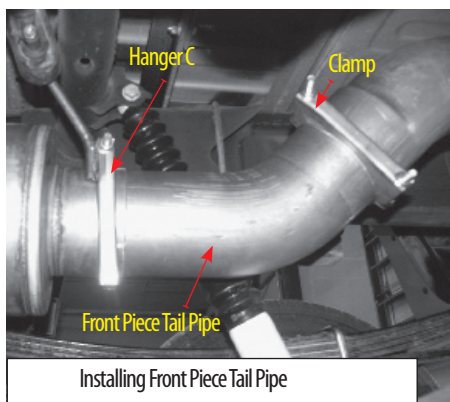
5. Install the Tail Pipe by hanging it from Hanger C. It is important for a proper fit the the Front Piece Tail Pipe be installed correctly. Check the drawing on page 5, or see the "Installing Front Piece Tail Pipe" image.

6. Install the Muffler. Ensure that the louvers inside the muffler are facing the front of the vehicle so that they will catch air and muffle the exhaust sound. Hanger C serves as both a hanger and a clamp between the Muffler and the Front Piece Tail Pipe. Hand tighten the clamp so the pieces stay in place. If the straight pipe is not needed you can attach the Muffler directly into the Cross Member. If the Straight Pipe is needed don't cut it at this point until the entire exhaust is in place.

7. Install the Rear Piece Tail Pipe into the Front Piece Tail Pipe and secure with a clamp. The Rear Piece will hang from Hanger D.

8. At this point if you need the extra Straight Pipe cut the Straight Pipe to the desired length. Keep in mind that you need 3 inches of overlap when you cut the pipe. If the straight pipe is not needed you will have an extra Straight Pipe and an extra Clamp left over when you are finished with the install.

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





Complete System Installed

10. Return to each of the clamps and tighten with a 9/16" wrench. Again do not over tighten the clamps. Having any part of the exhaust system in direct metal to metal contact with any part of the body or chassis will cause the exhaust to rattle.

11. Install the Stainless Steel Tip to give the exhaust that final touch now that the rest of the exhaust system is in place. You

may have to trim the Tail Pipe. Remember that there are 3 inches of overlap between the Tail Pipe and the Stainless Steel Tip so add 3 inches to your mark. Again keep in mind that you don't want to exhaust in contact with the body or chassis of the vehicle or to allow the exhaust to blacken the paint of your vehicle.

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. |
| Can I make my exhaust louder?                        | Exhaust Sounds   | If you are running your vehicle off road, Bully Dog can sell you another straight pipe to put in place of the muffler. The part # is 185027 for 5" systems.                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                               |

## 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.