



BULLY DOG

#1 IN PERFORMANCE

INSTALLATION MANUAL



Vehicle Application	Part#
Rapid Flow 4" Aluminized Exhaust Dodge Cummins 5.9L '94-'02	182010
Rapid Flow 4" T-409 SST Exhaust Dodge Cummins 5.9L '94-'02	182445





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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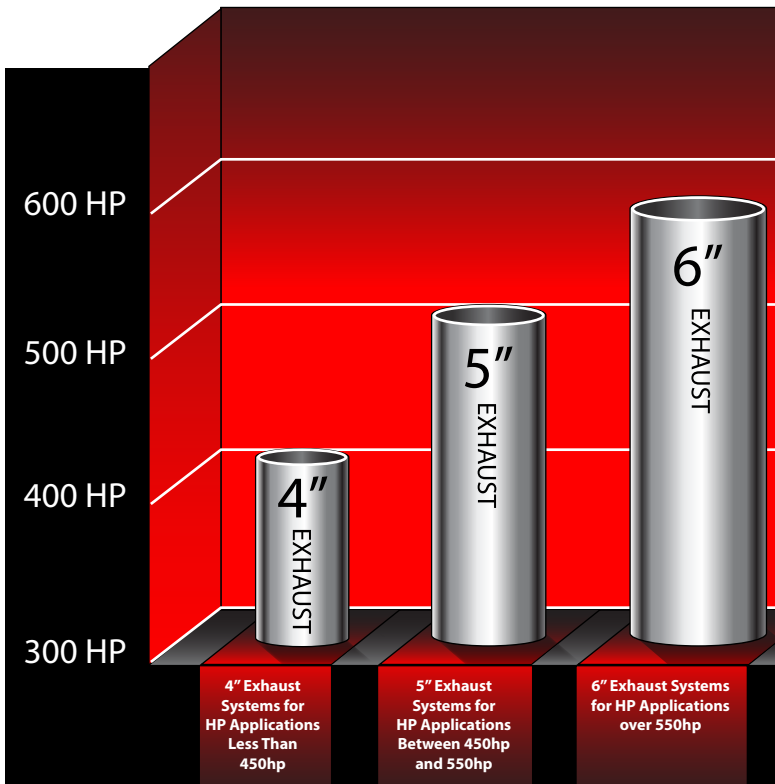
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INTRODUCTION

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, burns more fuel in the combustion chamber adding additional horsepower and fuel economy. This instruction set covers both the 4" Rapid Flow Aluminized Exhaust and the 4" Rapid Flow T-409 SST Exhaust for the '94-'02 Dodge Cummins 5.9L. Both systems install exactly the same.

Note: This instruction set and the Rapid Flow Exhaust systems included are made exclusively for the '94-'02 Dodge Cummins 5.9L.

BULLY DOG'S RULE OF THUMB FOR EXHAUST SIZES

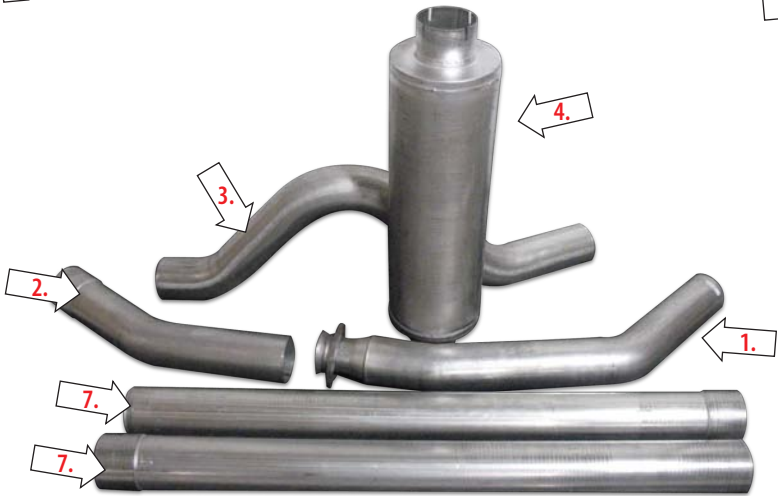
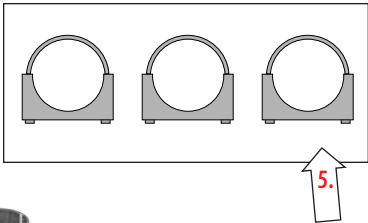
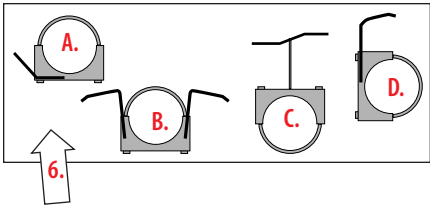


BILL OF MATERIALS

1. Down pipe
2. Tail Pipe Tip
3. Tail Pipe
4. Muffler
5. Clamps (3 pieces)
6. Hangers (4 piece)
 - Hanger A
 - Hanger B
 - Hanger C
 - Hanger D
7. Straight Pipes (2 piece)

TOOLS NEEDED

- 13mm Socket Wrench
- Sawzall (Recommended)
- Silicone Spray Lubricant
- Socket Wrench
- 24" Extension
- Pliers



REMOVAL OF STOCK EXHAUST SYSTEM

In these steps you will remove the stock exhaust system.

1. You will need a ratchet with a 24" extension in order to remove the stock 13mm bolts that hold the down pipe onto the turbo. You may have to combine different extensions to make the 24" extension. It is recommended that you use a silicone spray lubricate to help make the process easier. You will reuse the stock bolts to attach the new Rapid Flow exhaust.
2. Cut the stock exhaust in three places. Using a saw-zall make your first cut directly behind the muffler.
3. Cut in front of the resonator.
4. Cut the bottom of the downpipe where the stock exhaust makes its bend.
5. Remove each piece of the stock exhaust system, including the stock exhaust hangers. Use Spray lubricant to aid in the removal of the hangers.



Cut Exhaust directly after muffler



Cut Exhaust in front of resonator

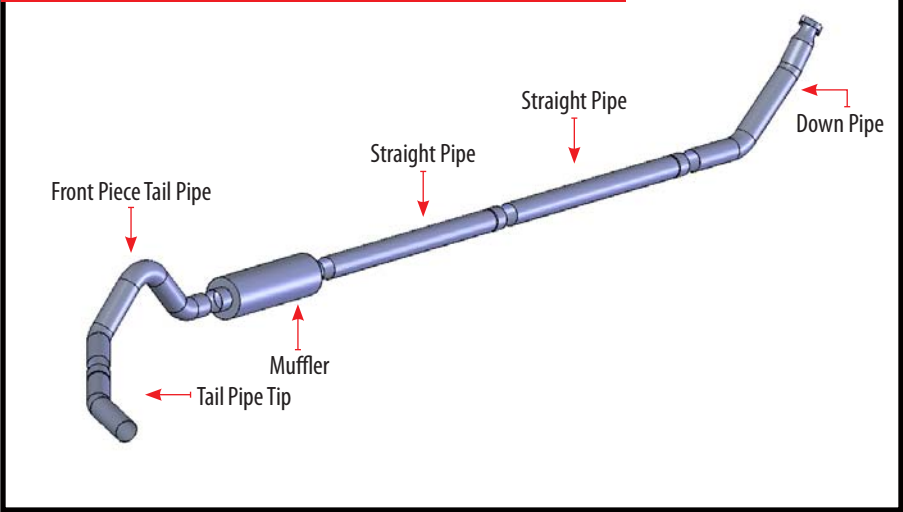


Cut after the bend of the downpipe

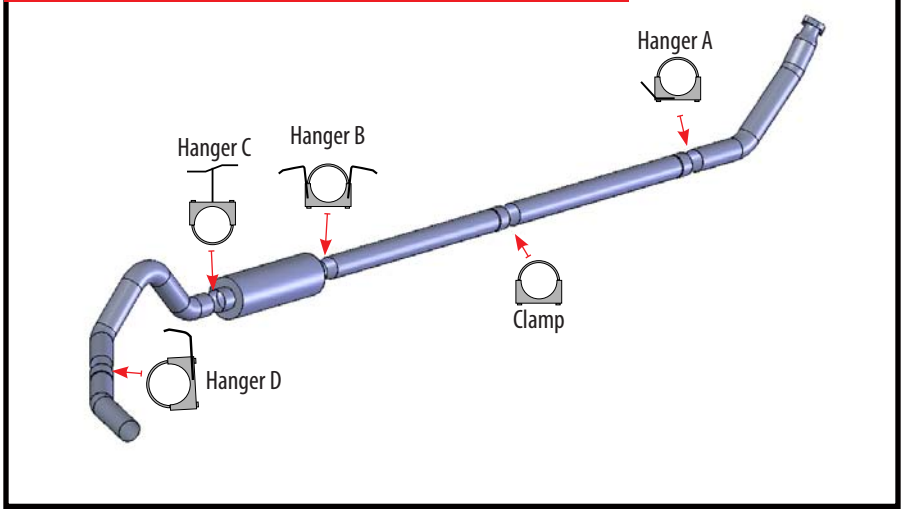


Remove all the necessary exhaust hangers

QUICK OVERVIEW FULL EXHAUST



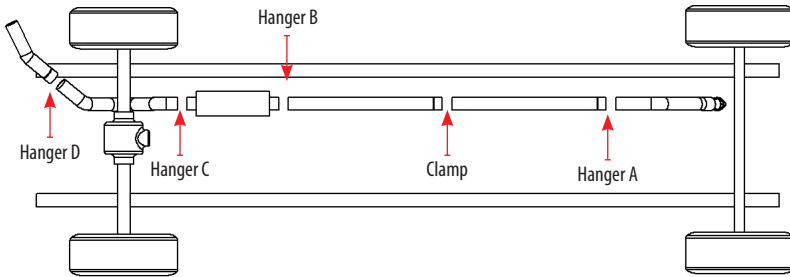
CLAMP AND HANGER PLACEMENT



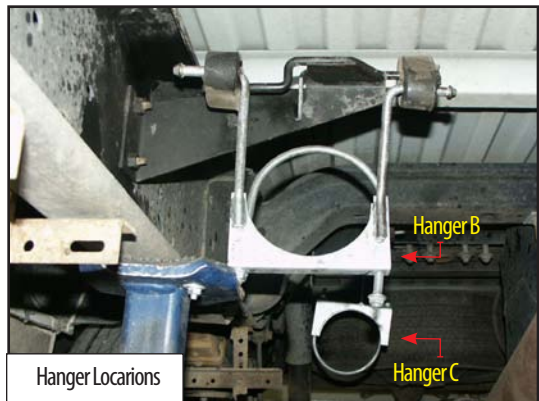
INSTALLATION OF THE BULLY DOG RAPID FLOW EXHAUST SYSTEM

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.

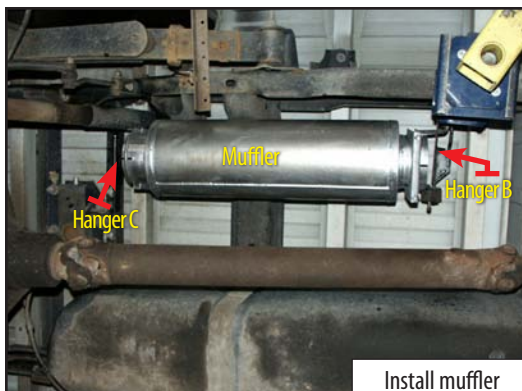


1. It is suggested, that before installing the system on the truck the Rapid Flow Exhaust System be laid out on a large flat surface to acknowledge the location of each piece.
2. Place all of the supplied Hangers into their appropriate locations as shown in the above diagram. All Hangers will serve a dual purpose, acting as both clamps and hangers. Hanger A will serve as the clamp between the Down Pipe and the first Straight Pipe. Hangers B and C will act as both clamps and hangers to hold the muffler, and Hanger D will serve as both a hanger and a clamp to hold the Front Piece Tail Pipe and the Tail Pipe Tip in place.
3. Bolt the Down Pipe in place using the stock 13mm bolts.
4. Using Hanger A as a clamp, tighten it down enough to hold the first Straight Pipe in place. Both Straight Pipes are exactly the same and are interchangeable.

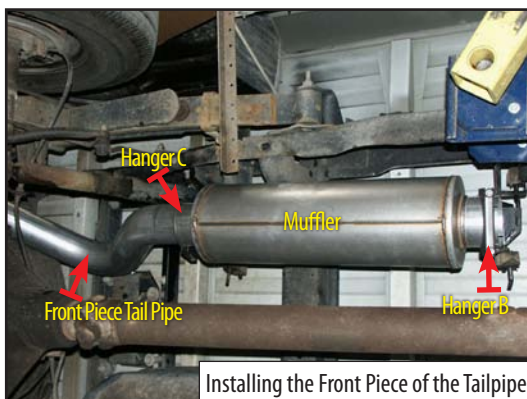


NOTE: At this point it is recommended that you install the Muffler and work back to the rear of the vehicle, leaving the second Straight Pipe out. The second Straight Pipe is the piece that will be cut if needed in this one-cut system.

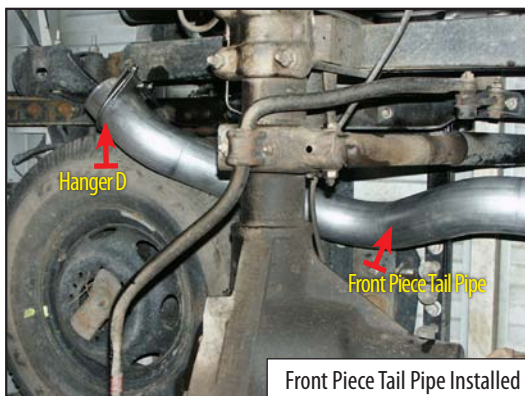
5. Hang the Muffler from Hangers B and C. Ensure that the louver in the muffler are facing towards the front of the vehicle.

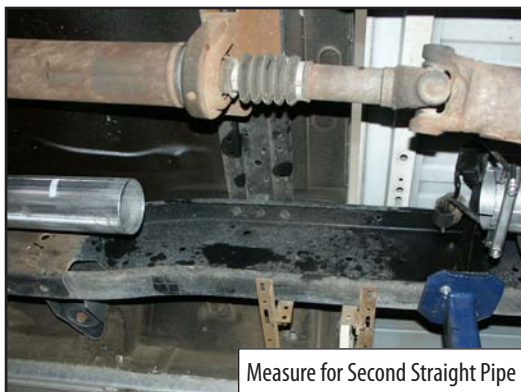


6. Install the Front Piece Tail Pipe over the rear axle. Confirm that the bend of the Tail Pipe is directly over the rear axle. The Front Piece Tail Pipe will hang from both Hangers C and D.



7. Install the Tail Pipe Tip. There are extra clamps included in this exhaust set. On some older model trucks '94-'96 there is no place on the truck to hang Hanger D. If this is the case, use the two extra clamps in place of Hanger D. If you call tech support they can send you a hanger tab that will allow you to secure it to the vehicle or you can weld it.





Measure for Second Straight Pipe

8. At this point, it is time to install the second Straight Pipe. Cut the Straight Pipe to the desired length, keeping in mind that you need 3 inches of overlap when you cut the pipe. Do not cut the flared end.

IMPORTANT: Do Not over-tighten clamps. Too much torque will result in deformation of the exhaust.

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 13mm wrench or socket. Again do not over tighten the Clamps. Having any part of the exhaust system in direct contact with any part of the body or chassis will cause the exhaust to rattle.

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



Complete System Installed



Complete System installed with SST Tip

Part Number: 180466

4" Tips

Part Number: 180450

Part Number: 180295

Part Number: 180291



TROUBLESHOOTING/FAQ

CONDITION	POSSIBLE SOURCES	ACTION
Which is better a 4", 5" or 6" 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. Applications running over 500hp require 6" 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.
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. <i>This is only applicable for aluminized systems.</i> Part # 185011 for the aluminized
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. <i>This is only applicable for aluminized systems.</i> Part # 185017 for the aluminized
No Hanger D Location on the Vehicle	Hangers	On older model trucks '94-'96 there is no place on the truck to hang Hanger D. If this is the case, use the two extra clamps in place of Hanger D. If you call tech support they can send you a hanger tab that will allow you to secure it to the vehicle or you can weld it.

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.

Bully Dog Technologies, LLC is a team built on integrity that is dedicated to leading the vehicle performance industry with an uncompromising code of ethics demonstrated in the soundness of its employees, excellent customer service and superior products.

UNLEASH THE POWER **WITH BULLY DOG PERFORMANCE PRODUCTS**

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Intake Systems



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Custom OutLook Pod

See More at: bullydog.com

Doc.# BD82012 v1.0.1

For a full listing of Diagnostic Trouble Codes go to: www.bullydog.com/DTC.php



BULLY DOG

For Free Technical Support

Call: 866-bullydog (866-285-5936)