



BULLY DOG

#1 IN PERFORMANCE

INSTALLATION MANUAL



Product	Part #
Pyrometer Gauge - White Face	30162
Pyrometer Gauge - Black Face	30163





TROUBLESHOOTING:

If you have questions during the installation of this product, please visit 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 5 before calling technical support to cover most common issues. Technical support is available by calling 866-bulldog (866-285-5936).

INTRODUCTION

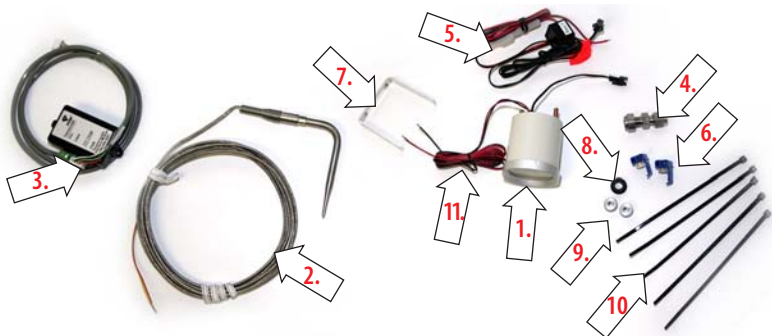
The Bully Dog gauges are great way to allow you to monitor exactly what is happening with your vehicle. Gauges are highly recommended any time that you are towing with the vehicle or hauling heavy loads. Included in these instructions is the information needed to install the gauge with either a pre or post turbo mount. The gauge can be used on other vehicles besides the ones listed, but covered are the most common applications.

BILL OF MATERIALS

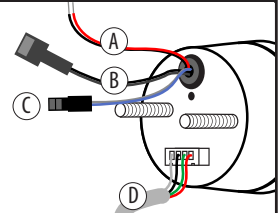
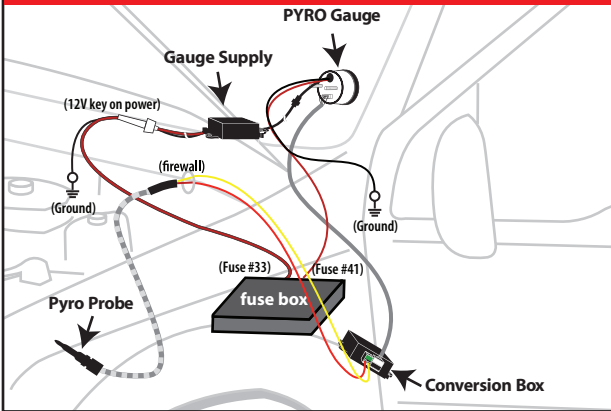
1. Bully Dog Pyrometer Gauge
2. Pyrometer Probe
3. Conversion Box
4. Compression Adaptor
5. Gauge Power Supply
6. Wire Clamps
7. Bracket
8. Rubber Grommet
9. Bracket Nuts
10. Zip Ties
11. Illumination Wire

TOOLS NEEDED

- Drill
- 5/16" Drill Bit
- 9/16" Wrench
- 5/8" Wrench
- Phillips Screw Driver
- Flat Blade Screwdriver

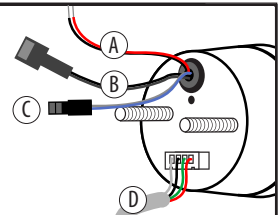
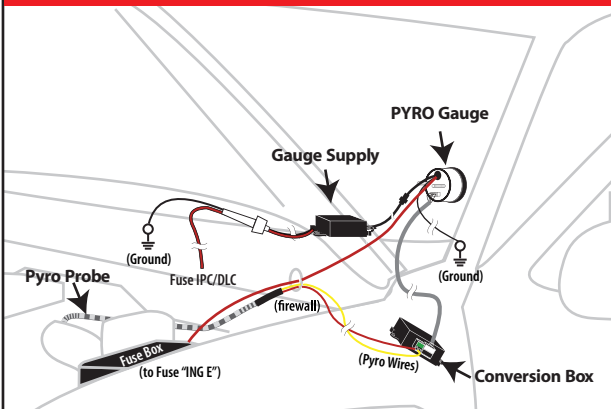


FORD POWER STROKE 6.0L '03-'07 INSTALLATION



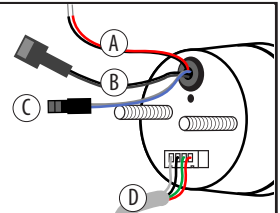
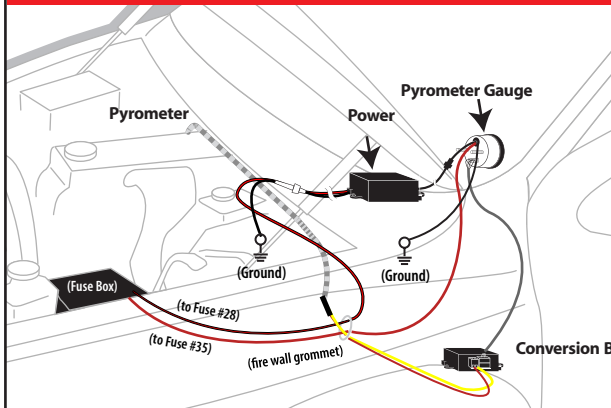
- A. Black to Ground, Red to Fuse 41
- B. To Gauge Supply
 1. Black to Ground
 2. Red to Fuse 33
- C. To Optional Morphing Controller
- D. To Conversion Box

GM DURAMAX '01-'07 INSTALLATION



- A. Black to Ground, Red to Fuse "IPC/DLC" in cab
- B. To Gauge Supply
 1. Black to Ground
 2. Red to Engine Bay Fuse "ING E"
- C. To Optional Morphing Controller
- D. To Conversion Box

DODGE CUMMINS '03-'07 INSTALLATION



- A. Black to Ground, Red to Fuse 35
- B. To Gauge Supply
 1. Black to Ground
 2. Red to Fuse 28
- C. To Optional Morphing Controller
- D. To Conversion Box

IMPORTANT: Bully Dog recommends doing a pre-turbo mount for Ford & GM trucks and a post turbo mount for Dodge

PRE-TURBO PYRO MOUNT:

1. Drill a 5/16" hole into the Exhaust Manifold where all the exhaust runners of the manifold come together just before the turbo exhaust inlet. Then tap the hole with a 1/8" pipe tap and mount the Pyrometer probe in the hole. Use a 9/16" wrench to tighten the probe holder or tube fitting to the down tube. Then tighten the Pyro Probe Cap to the holder using a 5/8" wrench.

WARNING: If any debris such as drill bits, metal shavings, spews etc. drops inside the manifold, we advise disassembly of the turbo to remove the debris.

POST-TURBO PYRO MOUNT:

1. Find a location on the exhaust pipe that is 3-6" downstream from the turbo charger output. Then drill a 5/16" hole and run a 1/8" pipe tap into the hole. Mount the Pyrometer Probe in the threaded hole using a 9/16" wrench to tighten the probe holder or tube fitting to the down tube. Then tighten the Pyro Probe Cap to the holder using a 5/8" wrench.

TOOL TIP, PRE-TURBO MOUNT

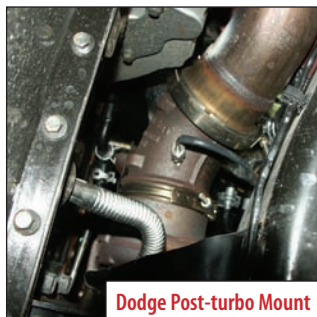
When drilling into the exhaust manifold, metal shavings, and broken drill bits can fall inside. This can be hazardous to your turbo when the engine starts. The following procedures will help to minimize this problem: One, use a high quality twist bit and a slow speed drill, about 500-800 rpm; Two, start with a small pilot bit about 1/8", then use the full 5/16" bit after the smaller one has punched through; Three, grease your drill bit in addition to the normal lubricant, this will catch flying debris as they are cut; Four, just prior to punching through into the inside of the manifold, start the engine and build up exhaust pressure on the inside of the manifold (blows debris outside the manifold instead of letting them fall inside).



Ford Pre-turbo Exhaust Manifold



GM Pre-turbo Exhaust Manifold

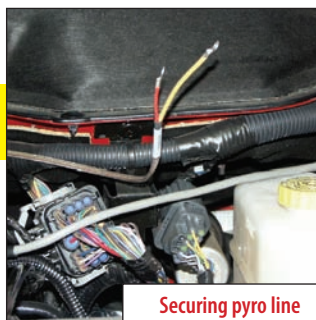


Dodge Post-turbo Mount

CABLE & GAUGE INSTALLATION:

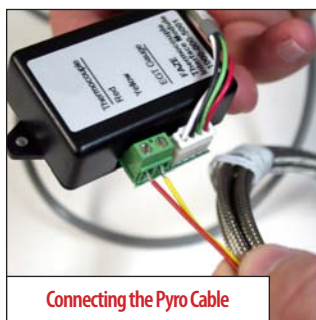
1. Run the Pyro Cable up to the engine bay and run the cable through the firewall into the cab. Use zip ties to secure the line.

Note: If you are mounting the gauge in a pod, you need to snap the gauge into the POD at this point.



Securing pyro line

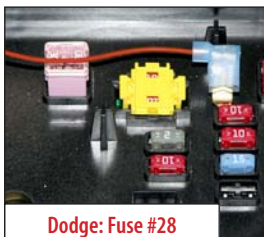
2. Snap in the end of the Gauge Wire with the label "Interface Module" into the Conversion Box.
3. Run the other end of the Gauge Wire up to the Pyrometer and snap in place.
4. Plug the Gauge Supply Cable into the black wire coming out of the Pyrometer.
5. Run both the black wire and the black wire with red strip to the nearest ground.
6. The red wire that is coming directly out of the Pyrometer needs to be plugged into a +12 volt fuse protected sources that turns on and off with the ignition key. On the latest model trucks it is fuse #33 on Ford trucks, fuse #28 for Dodge trucks and "ING E" on GM trucks (these fuses are shown below). Ensure that the fuse jack is placed on the dead side of the fuse. With the fuse pulled and the truck powered on but not started, the volt meter should read 0 volts on the fuse jack to ground.



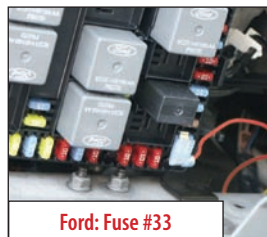
Connecting the Pyro Cable



GM Fuse "ING E"



Dodge: Fuse #28



Ford: Fuse #33

WARNING: For the Gauge to function properly, all fuses must be pushed in completely.

7. The other red wire coming out of the power supply needs to be plugged into a +12 volt fuse that supplies power when the dash lights are ON. The fuse on late model Ford trucks is fuse #41, the fuse number on Dodge trucks is fuse #35, and the fuse is "IPC/DLC" for GM trucks



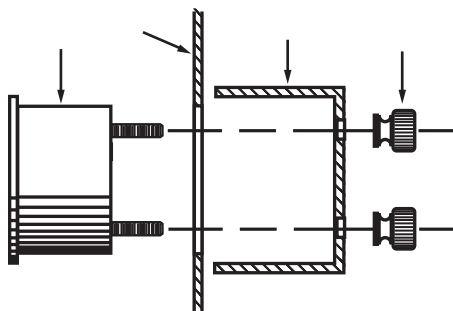
Connecting the Gauge to Conversion Box

MOUNTING THE PYROMETER GAUGE

Bully Dog offers three different options for mounting the Pyrometer Gauge, each location option places the gauge in an easily accessed viewing area for the driver.

DASH MOUNTING

1. Create a 2-1/16" or 53mm hole in the dash.
2. Insert Gauge into hole.
3. Install Mounting Bracket (See Drawing)
 - Hand tighten bracket nuts
 - Position gauge for best view and appearance
 - Tighten bracket nuts



A-PILLAR POD MOUNTING

1. Follow direction included with Pillar Pod.

OVERHEAD POD MOUNTING

1. Follow directions included with Pillar Pod.

FAQ

CONDITION	SOURCE	ACTION
How hot should the exhaust temperatures read before a driver needs to back off?	Operation	If the pyrometer probe is installed pre-turbo Bully Dog recommends not exceeding 1250 degrees. If the pyrometer probe is installed post-turbo Bully Dog recommends not exceeding 1050 degrees
Is pre-turbo or post-turbo better for mounting the pyrometer probe?	Installation	The only difference in pre and post turbo is the temperature you need to watch out for: 1050 Post Turbo 1250 Pre Turbo
Can the pyrometer cable be cut?	Installation	The pyrometer probe cable is designed at a certain length and needs to remain exactly as manufactured in order for readings to be accurate.

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 waivers 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**

Downloaders



Intake Systems



OutLook Monitor



Exhaust Systems



See More at: bullydog.com

Doc.# BD30004 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)