



# ***X Flow Intake Manifold***

For 2005-07 Ford 6.0L F-Series Trucks

| Part #           | Application       | Description                     |
|------------------|-------------------|---------------------------------|
| <b>1041577</b>   | Ford 6.0L 2005-07 | Intake Horn (Black Powder Coat) |
| <b>1041577-P</b> | Ford 6.0L 2005-07 | Intake Horn (Polished Aluminum) |

## ***-- Installation Instructions --***

*PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.*

**UNLESS AN EO# IS LISTED, THIS PRODUCT IS LEGAL IN CALIFORNIA FOR RACING VEHICLES ONLY, WHICH MAY NEVER BE USED UPON A HIGHWAY.**

BD Engine Brake Inc.

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

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 Fax: 604-853-8749 Internet: [www.bd-power.com](http://www.bd-power.com)

## Kit Contents

| <b>1041577 (Black) and/or 1041577-P (Polished) Ford X-Flow Intake</b>               |   |  |   |
|---|---|--|---|
| <b>1401570-P</b>  | <b>1401570-POL</b>  | <b>1401571Z</b>  | <b>1401572Z</b>   |
|    |    |    |    |
| <i>Powder Coated Intake</i><br><b>1041577 Kit ONLY</b>                              | <i>Polished Manifold</i><br><b>1041577-P Kit ONLY</b>                               | <i>Long Stud</i>   | <i>Short Stud</i>   |
| <b>Qty: 1</b>   | <b>Qty: 1</b>   | <b>Qty: 2</b>  | <b>Qty: 2</b>   |
| <b>1401573</b>  | <b>1401574</b>  | <b>1401575</b>   | <b>1401576</b>  |
|    |    |     |    |
| <i>M6 Bonded Seal</i>   | <i>M6 Acorn Nut</i>   | <i>M6 Washer</i>   | <i>O-Ring</i>   |
| <b>Qty: 2</b>   | <b>Qty: 4</b>   | <b>Qty: 2</b>  | <b>Qty: 2</b>   |
| <b>1453802</b>  | <b>1200208</b>  | <b>1405212</b>   | <b>1401577</b>  |
|  |  |  |  |
| <i>Jam Nut</i>  | <i>1/8" NPT Plug</i>  | <i>3.78" Clamp</i>   | <i>3"-3.5" Connector Hose</i>   |
| <b>Qty: 1</b>   | <b>Qty: 1</b>   | <b>Qty: 1</b>  | <b>Qty: 1</b>   |
| <b>1405221</b>  | <b>1405211</b>  | <b>1401579P</b>  |   |
|  |  |  |   |
| <i>3" Ribbed Boot</i>   | <i>Intake Pipe Clamp</i>  | <i>Powder Coated Intake Pipe</i>   |   |
| <b>Qty: 4"</b>  | <b>Qty: 3</b>   | <b>Qty: 1</b>  |   |

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## Installation

Remove the factory intake elbow using a 10mm socket, as well remove the silicon boot and hose clamp with a 7/16" wrench.

You will need to save one of the 3" band clamps.

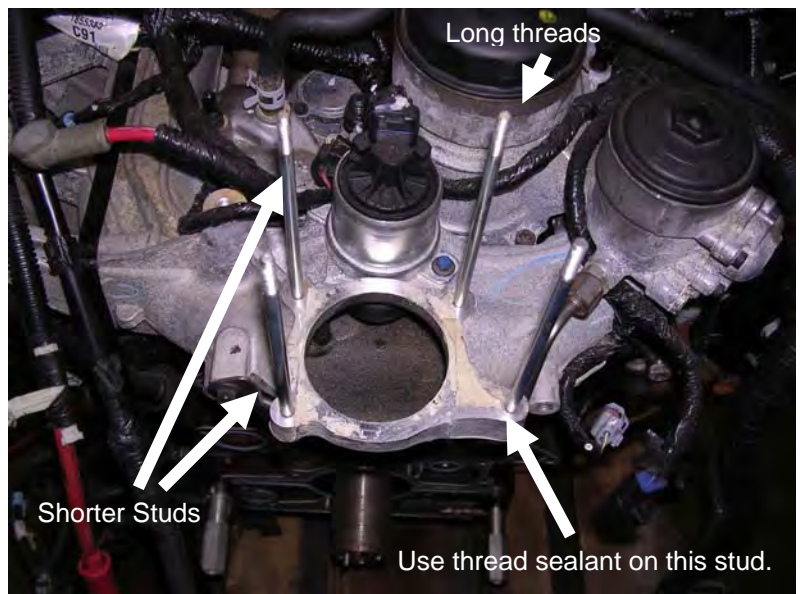


Attached to the bottom of the factory intake elbow will be a rectangular rubber seal. Store this in a safe place as it will be reused later.

Thread the four studs into the intake plenum. Note that the ends with the least amount of threads should be threaded into the intake plenum.

As well the shorter studs should be installed on the passenger's side of the intake plenum while the longer studs should be installed on the driver's side.

**THE BOTTOM THREADS ON THE FRONT STUD ON THE DRIVER'S SIDE OF THE INTAKE WILL NEED TO BE SEALED WITH PIPE SEALANT. THIS THREAD IS A THRU HOLE WHICH IF NOT SEALED WILL CAUSE A BOOST LEAK.**



The long threads of the studs should be up.

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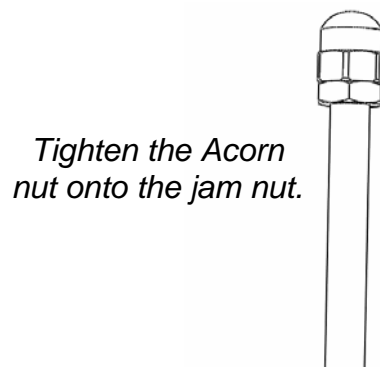
With the Jam nut provided, double nut the studs and torque them into the intake plenum to 2 ft-lbs. This ensures that the stud is correctly bottomed.

You will need to use two wrenches to secure the two nuts together. And to release the jam not after the stud is tightened.

You can now insert the factory rectangular rubber o-ring into the bottom of the BD Intake.

At the same time insert the two circular O-Rings into the chamfer holes on the bottom of the intake on the driver's side.

In order to have the O-Rings remain in place you can use grease to secure their position.



*Tighten the Acorn nut onto the jam nut.*

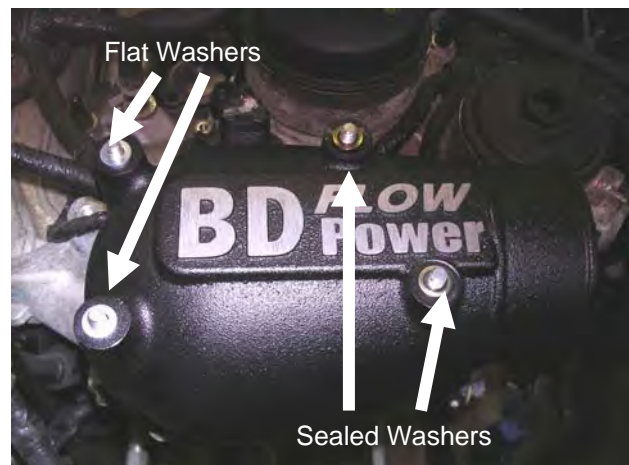


Flip the BD Intake over and insert the intake over and down through the studs until it is mounted to the factory intake plenum.

***NOTE: YOU WILL NEED TO TRIM THE TOP SECTION OF THE PLASTIC FAN SHROUD TO ALLOW ROOM BETWEEN THE SHROUD AND THE BD INTAKE. A SERRATED BLADE WILL WORK THE BEST.***

Install the flat M6 washers on the studs mounted on the passenger's side of the BD intake.

Install the M6 bonded seal washers on the two studs on the driver's side of the BD Intake.



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Insert the 4 M6 Acorn nuts onto the studs and torque to **8 ft-lbs (96 in-lbs)**.

If you are not going to install a boost line into the 1/8<sup>th</sup> NPT port you will need to use the supplied plug to seal the hole.

Insert the 4-ply 3-3.25" silicone boot over the intake and onto the factory steel intercooler pipe. Use the supplied spring band clamp to secure the boot to the BD intake. You will re-use the factory 3" Ford clamp on the other side of the boot.

Note that if you have a plastic factory intake pipe you will need to use the supplied powder coated steel pipe. Use the 6" ribbed boot to replace the boot at the intercooler. As well, replace the factory ford clamps with the heavy duty spring clamps.



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