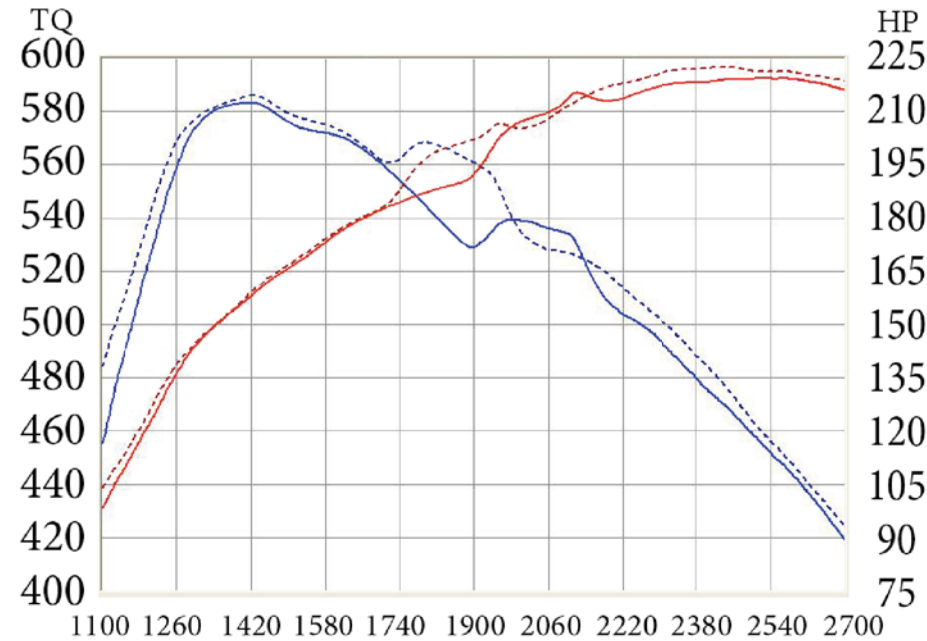


# INSTALLATION INSTRUCTIONS



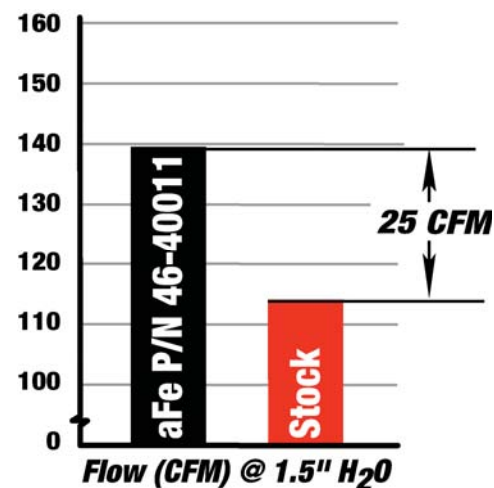
## 46-40011 Dodge Cummins 03-07 L6-5.9L (td)

Every system we sell has been tested on a Mustang Chassis Dynamometer and has been proven to increase horsepower. We measure horsepower at the wheels. OE manufacturer horsepower ratings are measurement of horsepower at the engine and will be higher than that which is measured at the wheels due to power loss through the drive train.



**+10 Horsepower @ 1900 RPM**  
**+32 Lbs. x FT. Torque @ 1900 RPM**

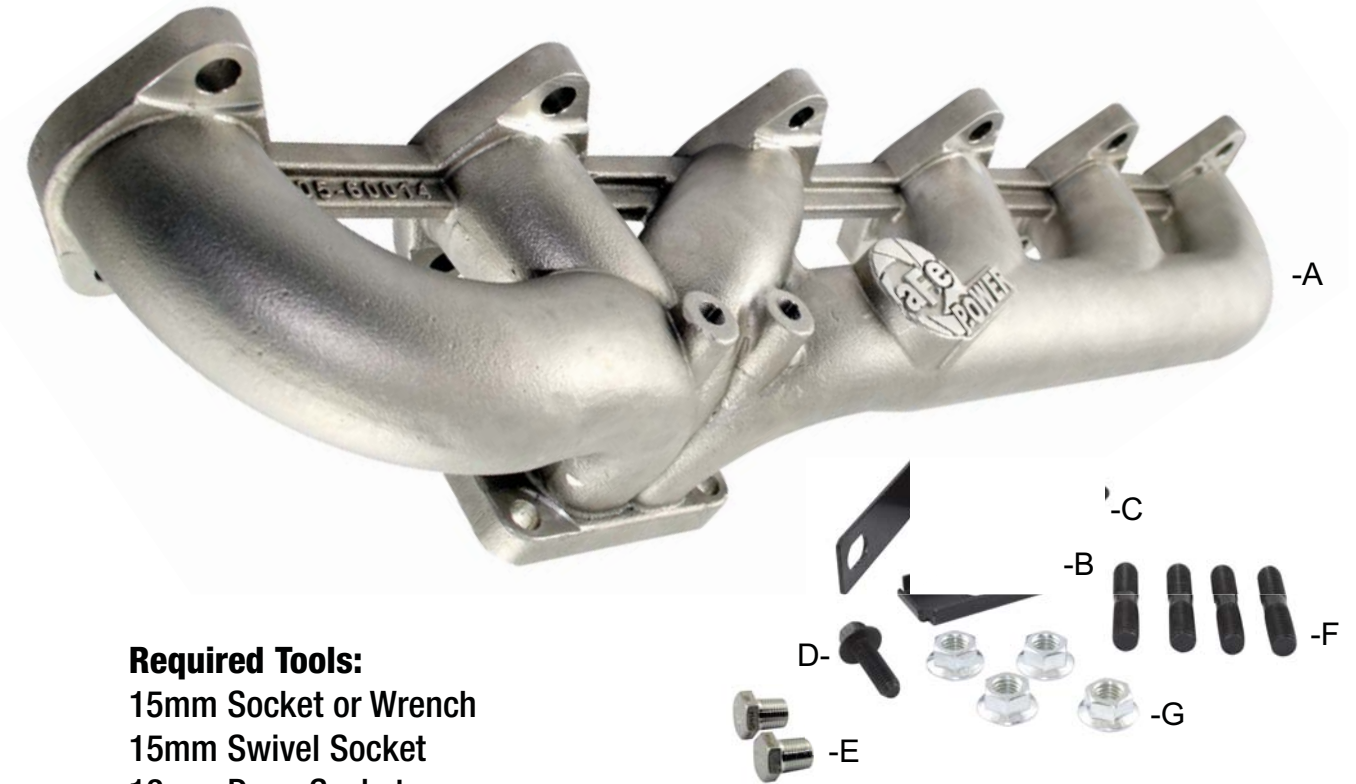
Air flow Comparison Chart



# INSTALLATION INSTRUCTIONS



## 46-40011 Dodge Cummins 03-07 L6-5.9L (td)



### Required Tools:

- 15mm Socket or Wrench
- 15mm Swivel Socket
- 13mm Deep Socket
- Long 3/8" Drive Extensions
- Ratchet
- Torque Wrench
- Philips screwdriver
- Thread Anti-seize
- Hacksaw
- Exhaust Manifold Gaskets (6)  
Dodge P/N 5135789AA
- Turbo Flange Gasket (1)  
Dodge P/N 3949530

### PARTS LIST:

Description	Qty	Part #
A Manifold	1	05-60014
B Channel, Bracket	1	05-60034
C Bracket	1	05-60035
D Screw, Hex Flanged Head	1	03-50182
E Plug, Hex Head, 1/8" NPT	2	03-50210
F Stud, M10x1.5x50	4	03-50214
G Nut, Hex Flange, M10x1.5	4	03-50189

### NOTE:

- Failure to follow installation instructions and not using the provided hardware may damage the system.
- Retain your exhaust manifold in the event you wish to return vehicle to stock status.
- Go to [www.afepower.com](http://www.afepower.com) for information on any other products available.



1 – Disconnect negative (-) battery terminals from BOTH batteries. Remove air intake turbo inlet from the vehicle.



5 – Remove 4 nuts holding the turbo to the stock manifold. The 2 back nuts are reached from underneath the truck. NOTE: No need to remove the turbo or loosen the exhaust. Wear safety glasses.



9 – If turbine housing has long shouldered studs (approx. 1" shoulder), remove them and replace with studs provided. NOTE: aFe will not replace turbine housings if damaged during stud removal.



13 – If using bracket provided, install on bolt farthest to the back of the manifold after bolts are tightened.



2 – Remove the EGT sensor if equipped.



6 – Remove 4 nuts holding the heat shield.



10 – Spread anti-seize into all 12 threaded holes on the head.



14 – Use anti-seize on turbo mounting studs and torque nuts to 32 ft-lbs. Re-install the EGT sensor. Install 1/8" NPT plug supplied into open port.



3 – Disconnect the water line bracket from the manifold. It can be very difficult to remove. An option is to cut the bracket and use the supplied bracket parts for later installation.



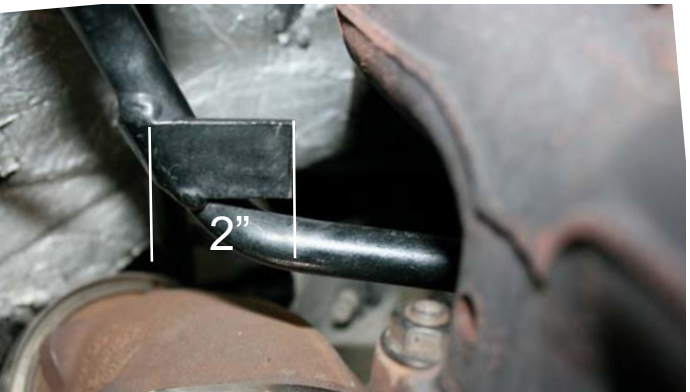
7 – Remove the stock manifold bolts using 13mm deep socket and save them for later install. After removing the stock manifold, clean the head and turbo surface to improve the seal.



11 – Install aFe exhaust manifold.  
IMPORTANT: Use new exhaust manifold gaskets available from your local Dodge dealer. Manifold gaskets part number 513589AA and turbo flange gasket part number 3949530.



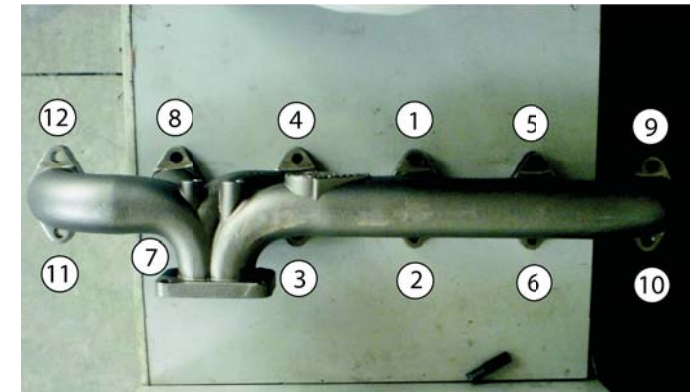
15 – Re-install heat shield and air intake turbo inlet. Reconnect the negative (-) battery terminals. Your installation is complete. Thank you for choosing aFepower!



4 – View of the cut bracket.



8 – Install studs provided on aFe manifold. Use 2 M10x1.5 nuts and turn them into each other so that they no longer spin freely. Next turn the top nut only to tighten the stud. Remove nuts from stud.



12- Tighten both upper turbo flange bolts to 32 ft-lbs. Tighten all 12 bolts in a clockwise pattern starting from the center out using the double-ended bolts on #5, 6, 9, 10 and 11. Torque bolts to 32 ft-lbs.