

# advanced FLOW engineering

BladeRunner Intake Manifold

**Instruction Manual** P/N: 46-11011 / 46-11012 / 46-11013

Make: **Dodge** Model: **RAM 2500/3500** Year: **03-07** Engine: **L6-5.9L (td) Cummins**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100 or e-mail at tech@afepower.com.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Manifold	05-60170
B	1	Gasket	05-60003
C	2	Screw: M8x1.25x160	03-50155
D	2	Screw: M8x1.25x80	03-50374
E	1	Tool, 6mm x 6" Hex Bit	03-50161
F	2	Plug: 3/8"NPT	03-50158
G	2	Plug: 1/8"NPT	03-50029
H	4	Washer, Flat	03-50228
I	1	Washer, Flat: M6	03-50160
J	3	Screw: M6x1x8mm	03-50317
K	1	Bracket	05-60002
L	1	Threadlocker	03-50162
M	1	Coupling, Reducer	05-60296 (In Kit P/N: 46-11011)
N	1	Clamp, Spring: 3.25" Dia.	03-50530 (In Kit P/N: 46-11011)
O	1	Clamp, Spring: 3.75" Dia.	05-60024 (In Kit P/N: 46-11011)
P	1	Coupling, Hump	05-60025 (In Kit P/N: 46-11012 or 46-11013)
Q	1	I/C Tube	05-60265 (In Kit P/N: 46-11012 or 46-11013)
R	2	Clamp, Spring: 3.75"Dia	05-60024 (In Kit P/N: 46-11012 or 46-11013)

Installation will require the following tools:

5/16 Allen Wrench, 7/16 Socket/Wrench, 5mm Allen Wrench, 6mm Allen Wrench and 6mm Socket/Wrench

**Note:** Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.

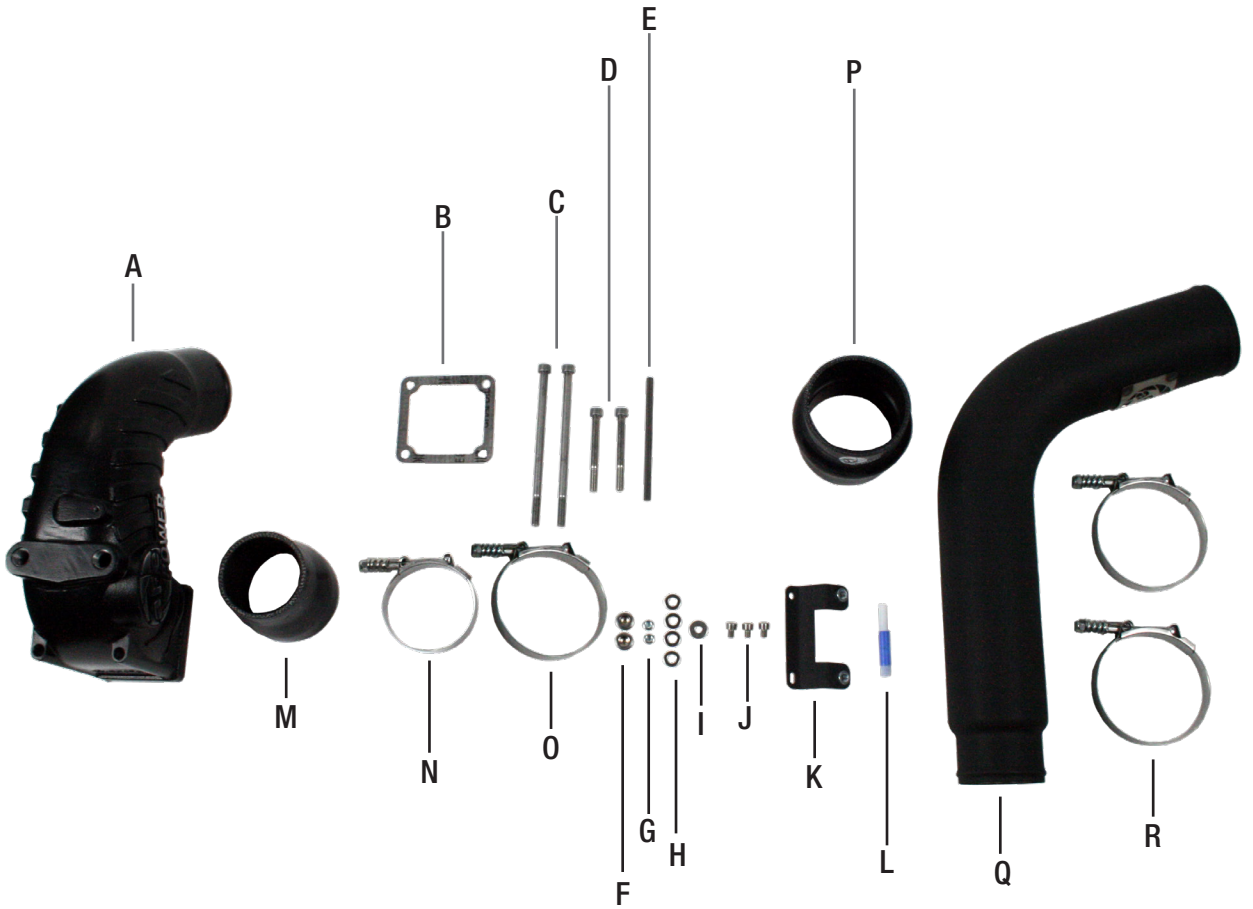




Figure A

**Refer to Figure A for steps 1-4**

Step 1: Remove dipstick from the intake manifold.

Step 2: Loosen the hump hose clamps.

Step 3: Remove the bolt retaining wires to intake manifold (on the firewall side). Save the bolt to be reused later.

Step 4: Loosen four bolts on intake manifold and remove intake manifold from vehicle.

REMOVAL

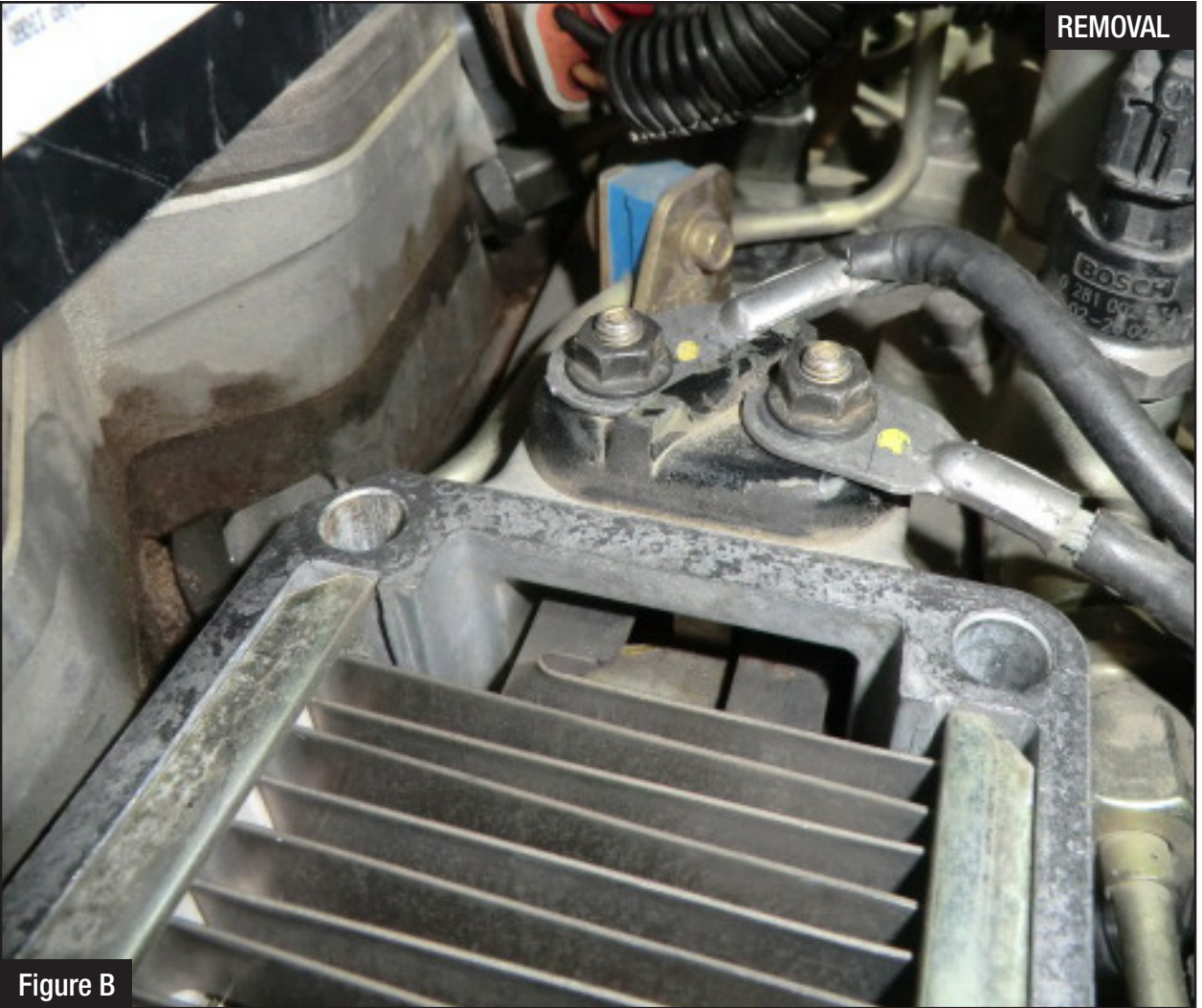


Figure B

**Refer to Figure B for steps 5-6**

Step 5: Remove the (2) 10mm nuts from the intake heater.

Step 6: Remove the intake heater.

**Figure C****Refer to Figure C for steps 7-8**

Step 7: Follow the (2) battery cables from the intake heater to the (2) relays under the battery on the passenger side. Remove the wires from the relays.

Step 8: Remove the wires from the vehicle.



Figure D

**Refer to Figure D for step 9-10 (For Kit P/N: 46-11012 or 46-11013)**

Step 9: Remove the clamps on the hump hose at the intercooler.

Step 10: Remove the boost tube from the vehicle. The hump hose and clamps will be reused.



Figure E

**Refer to Figure E for step 11 (For Kit P/N: 46-11012 or 46-11013)**

Step 11: Install the aFe boost tube in the vehicle. Insert in the hump hose at the intercooler and leave loose at this time.





Figure F

**Refer to Figure F for step 12-16**

Step 12: Clean and prepare the aFe intake manifold mating surfaces.

Step 13: Install 1/8" NPT plugs into aFe intake manifold.

Step 14: Position supplied coupler with 3 3/4" spring clamp. (Use reducer coupler in 46-11011 and hump coupler in 46-11012.)

Step 15: Position supplied M8 x 1.25 bolts and washers. Drop the shorter 80mm bolts through the larger holes on top while positioning the M8 washer from the bottom, passing the bolt through manifold and washer. Position the longer 160mm bolts and washer through the smaller two holes.

Step 16: Install the bracket for the stock wire loom with M6 socket cap screws provided. Install engine wire harness bolt (saved from Step 3) to the bracket.



Figure G

**Refer to Figure G for steps 17-19**

Step 17: Install the aFe intake manifold. Place the intake manifold gasket on the intake. Start the (2) bolts installed in step 15. Then install the M8x1.25x160mm bolts. Tighten the intake manifold, torque to 18ft. lbs. Tighten the hump hose clamps at both the intercooler and the intake manifold, torque to 18ft. lbs.

Step 18: Install the 2-3/8" NPT plugs to the top of the aFe intake manifold, torque to 18ft. lbs. Attach the dipstick tube using the M6x1x8mm and M6 fender washer. Attach the engine wire harness to the aFe intake manifold.

Step 19: Your installation is now complete. Please check all bolts and screws periodically, retighten if necessary.

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aFe Power Backpack



P/N: 40-33203

aFe Power Hat



P/N: 40-10114 (S/M)  
P/N: 40-10115 (L/XL)

aFe Power Ladies Hat



P/N: 40-10112

aFe Power Diesel T-Shirt

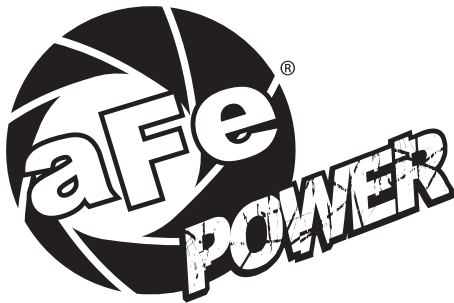


P/N: 40-30222-G (L)  
P/N: 40-30223-G (XL)  
P/N: 40-30223-G (2XL)  
P/N: 40-30223-G (3XL)

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video; please go to [aFepower.com](http://aFepower.com).

# Warranty

aFe warrants their intake systems to be free of defects from workmanship and materials for a period of two (2) years, provided the intake system was: A) installed in an aFe recommended application according to aFe installation instructions; and B) the air filter has been properly cleaned utilizing an aFe cleaning solution and oil (not applicable on Pro DRY S filters). Damage from abuse, improper cleaning, improper oil and improper installation or from open flame is not covered by this limited warranty. In the event of a defect of an aFe product within the period covered by this limited warranty, the purchaser can return the product to the dealer where it was purchased or send the product to aFe at the address listed on the back after obtaining a Return Good Authorization (RGA) number from aFe. The original register receipt will be required as proof of purchase. Purchaser will be entitled to a refund of the entire purchase price or a replacement of the product at aFe's discretion. Purchaser shall be responsible for the cost of shipping the defective product to aFe. An RGA number can be obtained by calling aFe customer service. Products shipped without an RGA number will be refused. A refund or replacement of the product shall be the sole remedy available under this limited warranty and aFe shall not be responsible for consequential or incidental damages. (Some states do not allow this exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply). This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.



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