



INTAKE MANIFOLD INSTALLATION INSTRUCTIONS

FOR USE ON
1998.5-2007 DODGE RAM
5.9L CUMMINS™ DIESEL



FASTCORE LLC
1451 ENGINEER ST SUITE B
VISTA, CA 92081



MADE IN THE USA.

www.cfmplus.com



Dear Customer,

Congratulations on your purchase of the world's highest performance and most technologically advanced intake manifold on the market for the Cummins Diesel.

For customer service please e-mail service@cfmplus.com or call our Customer Service Department at 760-598-2478 between 8:00 am and 4:00 pm Pacific Standard Time.
Thank you.

INSTALLATION PRACTICES

WARNING: 

Please read this entire manual before you start and follow all instructions.

WARNING: 

Before you begin any work, please disconnect the ground cable/cables from the battery/batteries of your truck.

WARNING: 

Do not begin this installation unless your engine is completely cool.

WARNING: 

Please do not over-tighten fasteners.



REMOVAL OF THE STOCK INTAKE:

1.) Remove the dipstick bolt on the top of the stock intake and save for reuse. Gently rotate and push the dipstick towards the back of the engine compartment.

2.) Remove the nut and washer that mounts the wiring harnesses on the back of the stock intake and save for reuse. If your truck model has it, remove the heater block wire harness by pulling out the plastic pin. See Figure 1. Gently push the wiring harnesses away from the stock intake.



3.) Loosen the boost hose clamp on the inlet end of the stock intake and slide the hose off. Be careful to not allow debris to drop into the boost hose opening.

4.) Remove the 4 bolts holding the stock intake to the engine. Push aside the heater ground cable if your truck model has one. Carefully remove the stock intake from the engine, being sure no debris falls into the engine through the heater block.

5.) Remove the nuts that connect the wiring to the heater block and slide the wires out of the way. Remove the heater block, again being careful not to allow debris to fall into the engine opening.

CAUTION: USE A CLEAN RAG TO COVER THE ENGINE INTAKE OPENING BEFORE PROCEEDING TO THE NEXT STEP.

6.) Using a gasket scraper, being careful not to gouge the mating surfaces, remove the old gasket material from both sides of the heater block and the engine intake opening. Thoroughly clean and dry these sealing surfaces.

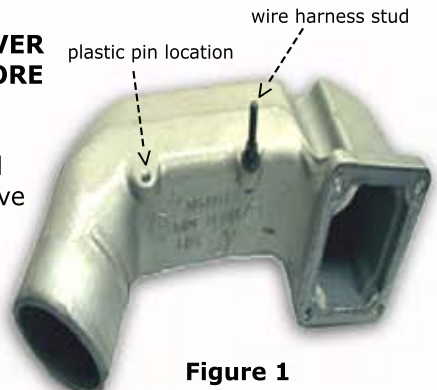


Figure 1

7.) Before proceeding, remove the wiring harness stud bolt from the back of the stock intake for installation on the CFM+ intake. Refer to Figure 1.



CFM+ INTAKE INSTALLATION:

CAUTION: Never use any gasket sealants when installing this intake.

1.) Begin by installing the new factory graphite gasket onto the engine intake opening. Be sure to line up all four holes of the gasket to the four intake mounting holes and then place the heater block on top of the graphite gasket. See Figure 2.

2.) Next, install the 4 supplied threaded studs from your CFM+ intake packaging. Be sure to install the shorter threaded end with the thread locker on it into the engine intake mounting holes. See Figure 2.

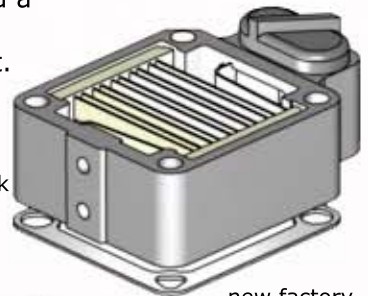
Using the two non-locking jam nuts provided, tighten the studs into the engine by threading both nuts onto one of the studs.

Tighten the nuts against each other using two 13mm open end wrenches or one wrench and a ratchet and socket. Now, tighten the stud by turning the top nut with the wrench or ratchet.

Be sure not to over-tighten. See Figure 2a.

Remove the two nuts and repeat the process on the remaining studs.

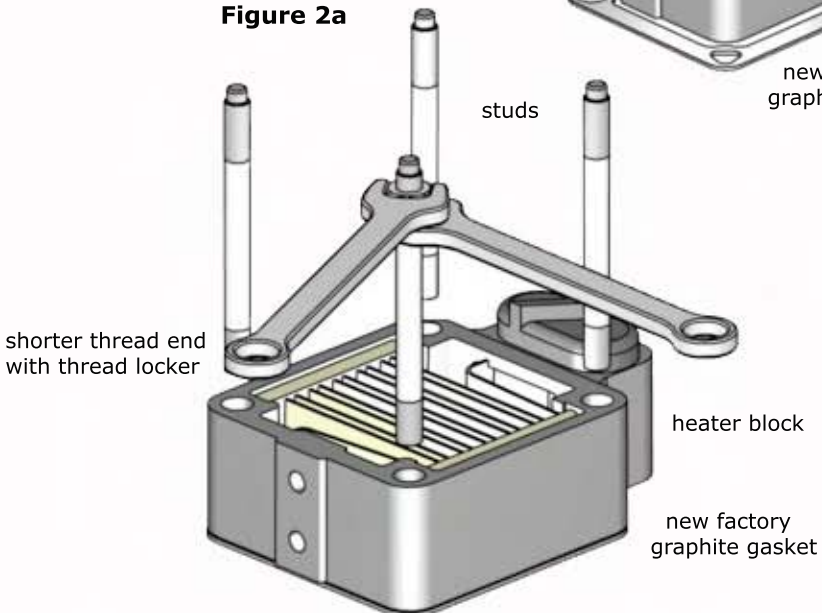
Figure 2



heater block

new factory
graphite gasket

Figure 2a



shorter thread end
with thread locker

studs

heater block

new factory
graphite gasket

3.) Reconnect the heater block wires and wire retaining nuts.

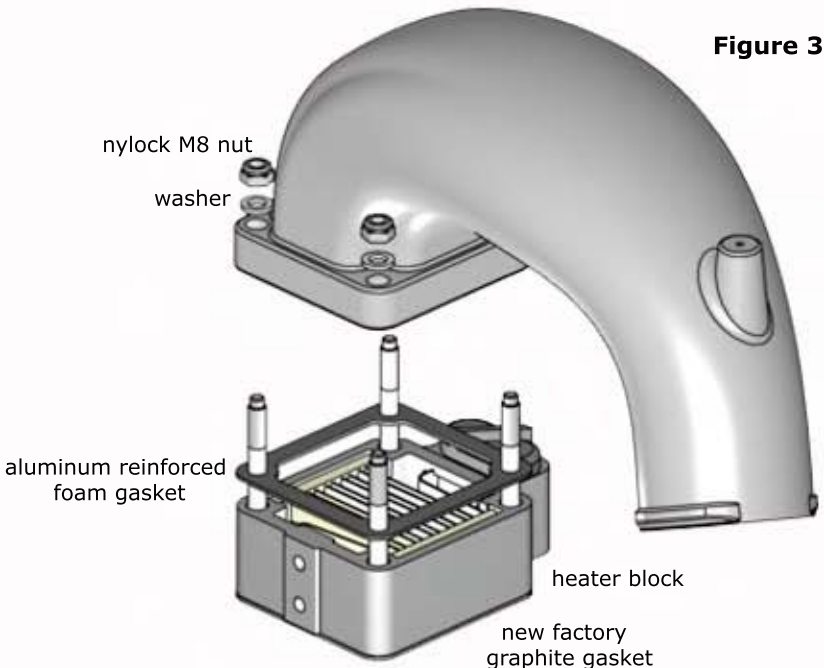
4.) Slide the remaining aluminum reinforced foam gasket from your CFM+ intake package onto the studs and against the face of the heater block.

5.) Before installing the CFM+ intake, you will need to install the wire harness stud into the threaded hole on the back of the CMF+ intake. This is the stud that you removed from the stock intake. Be careful not to over-tighten.

Note: Only use the special supplied washers for steps 6 & 7.

6.) Next, slide the CFM+ intake over the studs and against the foam gasket and install one washer and one nylock nut on one of the back studs and tighten by hand. This will hold the CFM+ intake in place.

7.) Place the remaining three washers on each stud, then place the grounding wire (if your truck model has it) onto the front stud location where it was removed.



CFM+ INSTALLATION CONTINUED:

8.) You can now install the remaining three M8 nylock nuts onto each stud and tighten all four evenly to 140 in-lbs. Again, be careful not to over-tighten. With the CFM+ intake tightened in place, you are ready to re-install the dipstick. Gently rotate the dipstick back towards the original location. Once lined up, install the dipstick mounting bolt using your fingers first to keep from cross threading the bolt and then tighten. Be careful not to over-tighten.

9.) Install the wire harness, washer and retaining nut onto the stud on the CFM+intake. Be careful not to over-tighten.

CAUTION: BE SURE THAT NO LOOSE WIRES ARE LAYING AGAINST THE INTAKE OR DIPSTICK TUBE.

10.) Using the supplied tie strap, strap together any loose wires to the wire harness that you just installed.

NOTE: If your truck is a 1998.5-2002, use the new supplied boost hose. Before installing the boost hose, be sure that the hose opening and the CFM+ intake boost hose end are clean and free from grease and dirt.

11.) Next, slide the boost hose over the end of the CFM+ intake and tighten the boost hose clamp nut to 100 in-lbs.

12.) Reconnect the battery cables.





WARRANTY INFORMATION

CFM+ Limited Warranty

Fastcore LLC warrants the replacement of CFM+ Intake due to defects in material and/or workmanship according to the following conditions:

The CFM+ Intake is warranted to the original retail purchaser only and is limited for one year from the original date of purchase. This warranty is not transferable.

This warranty is limited to replacing the defective Intake without charge and Fastcore LLC shall in no event be responsible for consequential or special damages. Labor and transportation charges are not included.

Proof of purchase and date of purchase are required to validate protection under this limited warranty.

Any Intake that has been modified or the insert threads that have been stripped or cross threaded is not covered by this limited warranty.

This Intake is not intended for use in any competitive event or activities. This limited warranty is void where the Intake has been used in any of these ways.

Claims must be made through Fastcore LLC and defective part must be returned for evaluation.

This warranty is expressly in lieu of any other warranties, expressed or implied, including implied warranty of merchantability or fitness for a particular purpose.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For warranty and return information please visit our web site at ***www.cfmplus.com*** and click on the customer service link.



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For God so loved the world that He gave His one and only Son, that whoever believes in Him shall not perish but have eternal life. John 3:16