



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8103

1996-2004

FORD Mustang GT V8-4.6L

C.A.R.B. E.O. # D-670

Excludes Mustang Bullitt models

* **NOTE:** Legal in California only for racing vehicles which may never be used upon a highway

PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 6.00 X 5" Dry W/H	1	21-209ED-HK
Inlet Pipe, Mustang GT	1	2-81031
Hose, Silicone 3.50x2" Black	1	5-351
Hose, Adapter 3.00/3.50x3 Blk.	1	5-353
Adapter, A/F Mustang	1	9-7103N
Gasket, MAF Mustang GT	1	9-8208
Hose; 3/4"ID X 2"L	1	5-4002
Plug, Air Filter	1	8-136
Cable, Mustang GT	1	8-311
Bullet Terminal, 18-20ga Male	2	8-352
Bullet Terminal, 18-20ga Female	2	8-353
Bracket	1	7-7238
Bolt, Hex/Flange M8-1.25 X 20	1	1-2025
Bolt, Hex/Flange M6-1 X 20	4	1-2038
1/2" Bnd. Hose Clamp, 3.15"-4.00"	3	9456
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452
Hose Clamp, 1 1/16" Narrow	2	4093-6
Hose Clamp, 1 1/4" Narrow	2	4093-8
1/2" Bnd. Hose Clamp, 4.125-7.00"	1	94104
Hose; 5/8"ID X 3"L	1	5-7003

Read and understand these instructions **BEFORE** attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine.

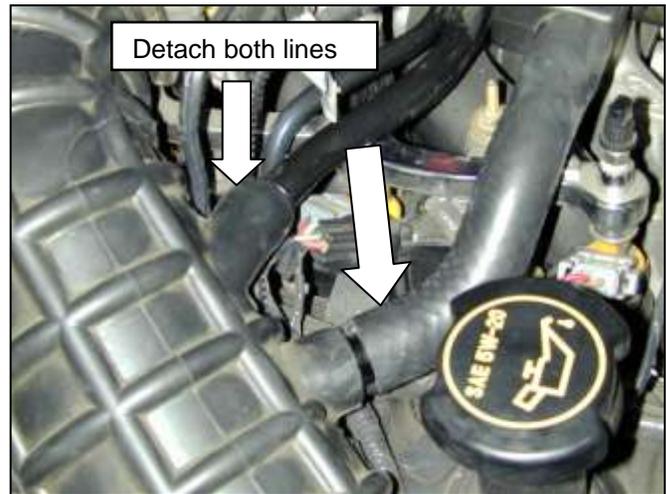
1. Preparing Vehicle

- a. Make sure vehicle is parked on level surface.
- b. Set parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.

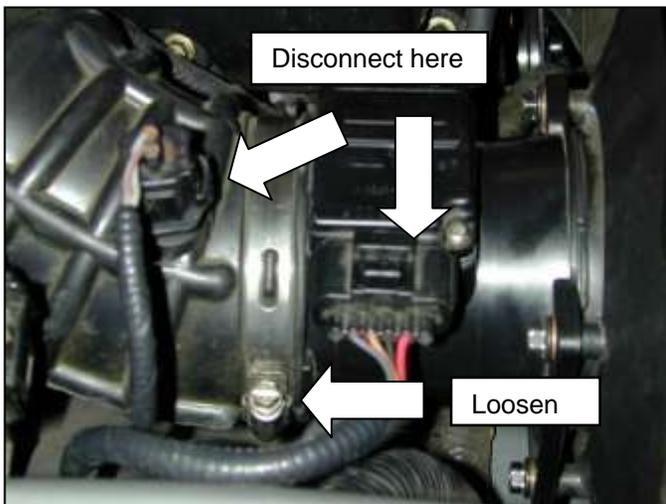
2. Removal of stock system



a. Loosen the hose clamp on the inlet air tube on the throttle body.



b. Detach the IAC line and the PCV line from the inlet air tube.



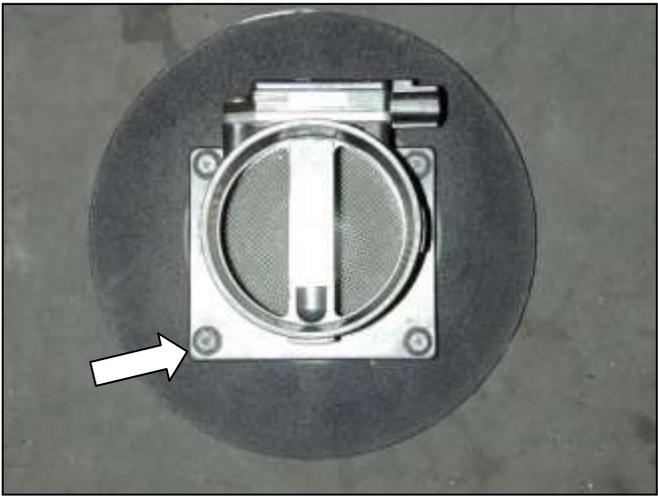
c. Disconnect MAF and IAT sensor connectors. Loosen hose clamp and remove inlet air tube.



d. Loosen bolt and remove air filter assembly with MAF sensor.



e. Release latch and remove the air filter element and housing.



f. Loosen and remove the 4 bolts retaining the MAF sensor. Remove the MAF sensor. The screen will not be reused.

3. Installation of AEM® intake system.

a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Attach reducer coupler and hose clamps. Do not completely tighten.



c. Insert inlet pipe into coupler. Do not completely tighten hose clamp.



d. Attach the provided 5/8" hose for the IAC and secure with provided hose clamps.



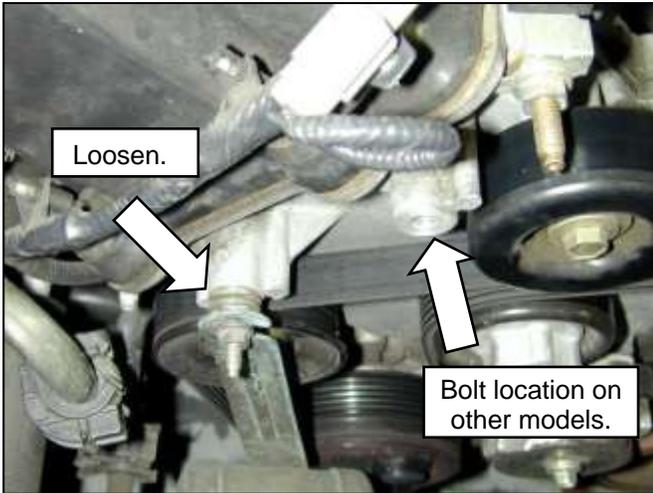
e. Attach provided 3/4" breather hose for the PCV and secure with provided hose clamps.



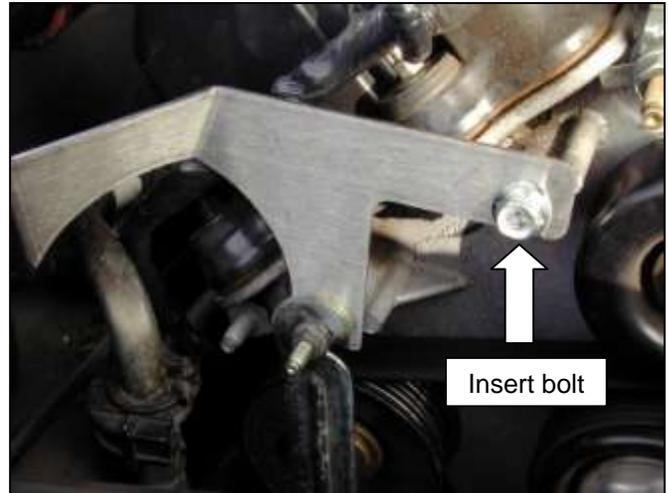
f. Assemble Air horn/MAF sensor adapter to bracket and MAF sensor as shown. Install the provided gasket between the MAF sensor and AEM air horn. The bracket will be on the opposite side of the MAF sensor wiring harness plug. The bracket should point in the same direction as the airflow arrow marked on the MAF sensor. Tighten bolts to 55 in-lb.



g. Attach coupler and hose clamps. Do not completely tighten.



h. Loosen bolt but do not remove.
NOTE: On models without individual coils loosen and remove bolt.



i. Attach bracket as shown with provided bolt. The slot on the bracket should be between the washer and the stock bracket.



j. Attach the coupler to the inlet pipe. Plug in the MAF sensor harness.

Stop here if you do not have an external IAT sensor. Attach the air filter and push-in the air filter onto the adapter and secure. Proceed to step 4 to complete your installation. For vehicles that have an external IAT sensor proceed to step 3k to continue installation.



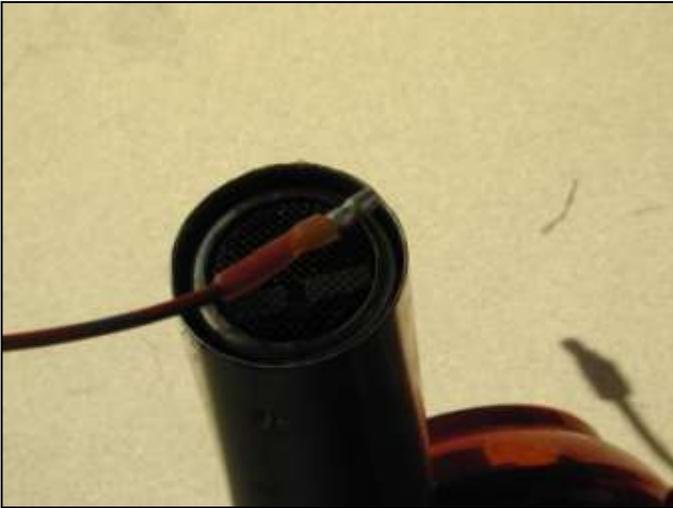
k. Locate the IAT sensor harness. Cut 3" down from the sensor to allow enough wire for crimping.



l. Strip off the wire loom from the sensor.



m. Strip a $\frac{3}{4}$ " section off each end and attach the male bullet connector. Crimp carefully. For best results crimp at the seam.



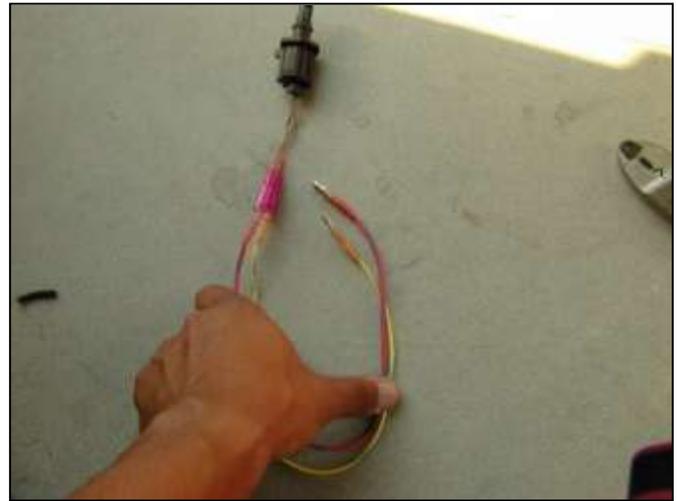
n. Heat each end of the connectors from prior step until the shrink wrap is secure around the wire.



o. Cut back about 2" of wire loom on the remaining IAT harness. Be careful not to cut the wires.



p. Strip off a ¼" section from each end and attach the 2 female end butt-connectors. Crimp and apply heat to each.



q. Match the solid gray wire from the IAT sensor female end and attach the solid gray wire male end connector. Do the same with the gray/red wire.



r. Connect the lengthened IAT to the female ends on the harness.



s. Apply heat. Your supplied harness should look like this.



t. Insert IAT into the air filter end and attach to air horn.



AEM® intake system installed

4. Reassemble Vehicle

- a. Position the inlet pipes for the best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle. Tighten the rubber mount, all bolts, and hose clamps.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- d. Reconnect negative battery terminals and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

5. CARB Sticker Placement

- a. The C.A.R.B. exemption sticker, (attached), must be visible under the hood so that an emissions inspector can see it when the vehicle is required to be tested for emissions. California requires testing every two years, other states may vary.

6. Service and Maintenance

- a. It is recommended that you service your AEM[®] Dryflow™ filter every 20,000 miles for optimum performance. Use AEM Dryflow cleaning kit part # 21-110.
- b. Use aluminum polish to clean your polished AEM[®] intake tube.
- c. Use window cleaner to clean your powder coated AEM[®] intake tube. **(NOTE: DO NOT USE aluminum polish on powder coated AEM intake tubes)**

For technical inquiries
e-mail us at
sales@aemintakes.com
or
call us at
800.992.3000

AEM Air Intake System Warranty Policy

AEM[®] warrants that its intake systems will last for the life of your vehicle. AEM will not honor this warranty due to mechanical damage (i.e. improper installation or fitment), damage from misuse, accidents or flying debris. AEM will not warrant its powder coating if the finish has been cleaned with a hydrocarbon-based solvent. The powder coating should only be cleaned with a mild soap and water solution. Proof of purchase of both the vehicle and AEM intake system is required for redemption of a warranty claim.

This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is nontransferable. Improper use or installation, use for racing, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM within 30 days of the date RMA is issued.

If you have a warranty issue, please call (800) 992-3000 and our customer service department will assist you. A proof of purchase is required for all AEM warranty claims.