Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8020

2006	PONTIAC	GTO	V8-6.0L	SEE * NOTE
2005	PONTIAC	GTO	V8-6.0L	C.A.R.B. E.O. # D-670

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

PARTS LIST

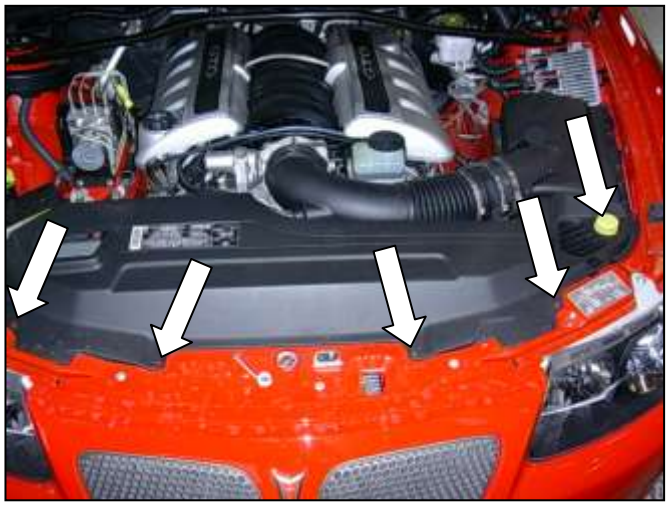
Description	Qty.	Part Number
Air Filter Assy. 4.00 X 5" Dry Ele.	1	21-205DK
Inlet Pipe	1	2-80201
Heat Shield	1	20-8020
Hose, Adapter, 3.75/4.0x2.25"	1	5-374
Elbow, 4.00 Tight 90 Deg.	1	5-490
Edge Trim, 12"	1	8-4012
Mount, Rubber 1" X 8mm	1	1228560
Grommet, 3/8"	1	784633
Grommet, 1/2"	1	784634
Zip Tie, 6 Long	1	1-113
Zip Tie, 8" Tree Push-Mnt.	2	1-127
Rubber Edge Trim 8"	1	8-3008
Hose; 3/8"ID X 10"L	1	5-1010
Bolt, Hex 1/4-20 X 3/4	2	1-2014
Bolt, Hex M6 X 1.0 X 16mm	1	1-2030
Washer, 1/4 SAE Flat	5	1-3028
Washer, 8mm Soft Mount	2	559960
Nut, M8 Hex Serrated	2	444.460.08
Nut, 1/4-20 Nylock	2	1-2074
Hose Clamp, 3/4"	2	4093-5
1/2" Bnd. Hose Clamp, 3.31"-4.25"	1	9460
1/2" Bnd. Hose Clamp, 3.56"-4.50"	4	9464

Read and understand these instructions <u>BEFORE</u> 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



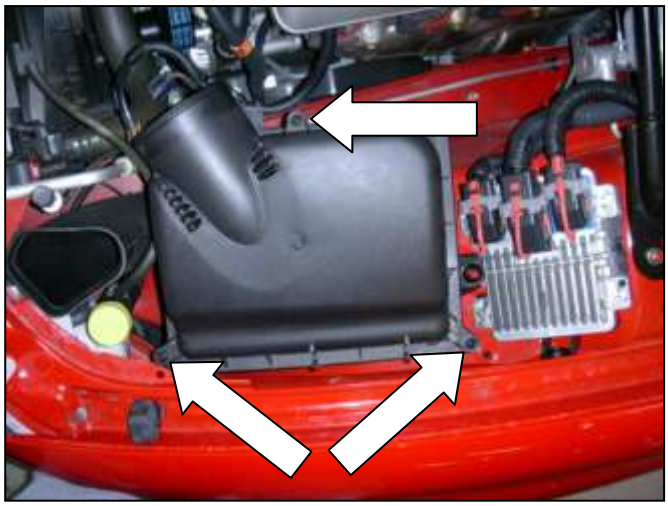
a. Remove the radiator shroud from the front of the vehicle by removing the 5 plastic connectors.

b. Loosen the hose clamp on the inlet hose elbow attached to the throttle body.

c. Loosen the hose clamp on the Mass Air Flow Sensor (MAF) and remove the inlet hose from the air filter housing. Rotate the inlet hose to expose the MAF sensor plug and harness.

d. Unplug the MAF sensor harness from the MAF sensor and remove the stock inlet air hose and sensor.

e. Remove the MAF sensor from the inlet hose and set aside. Be careful not to damage the MAF sensor.



f. Loosen the three screws holding the top of the air filter housing to the filter box and remove the top. Next, remove the air filter from inside the box.

g. Detach the wiring harness air filter housing as shown.

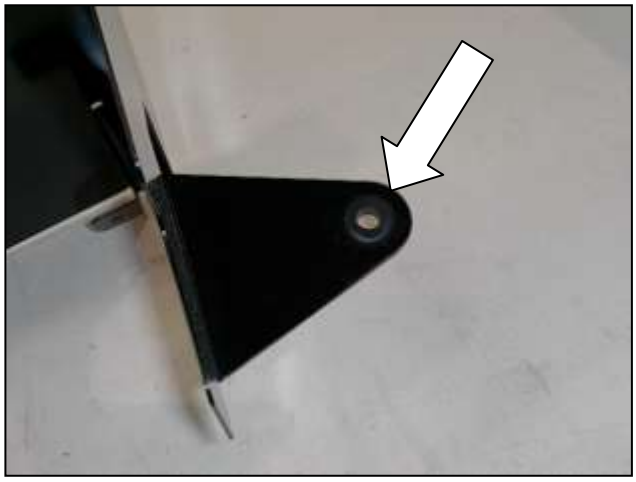
h. The lower air box is held in place with three grommets. To remove it, simply lift up on the box near the ECU.

i. Factory air box system removed.

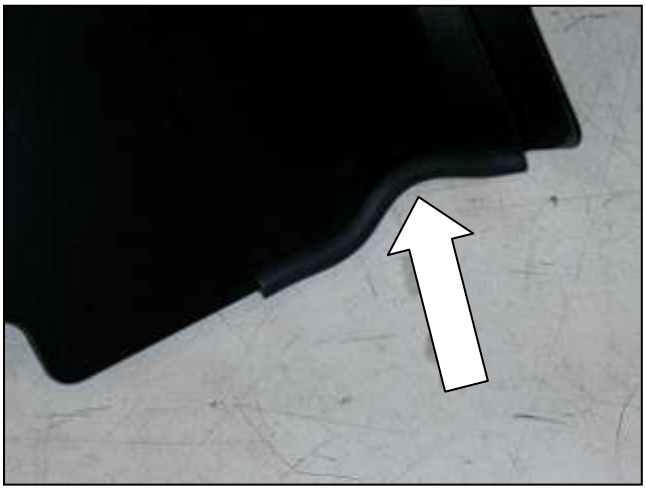
3. Installation of AEM® intake system.

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

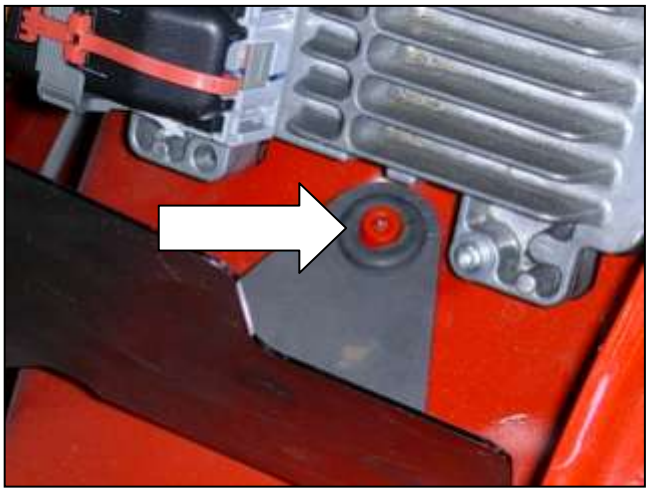
b. Zip tie the plastic breather hose to the plastic fuel regulator return line.



c. Install the rubber grommet into the hole in the heat shield tab as shown.

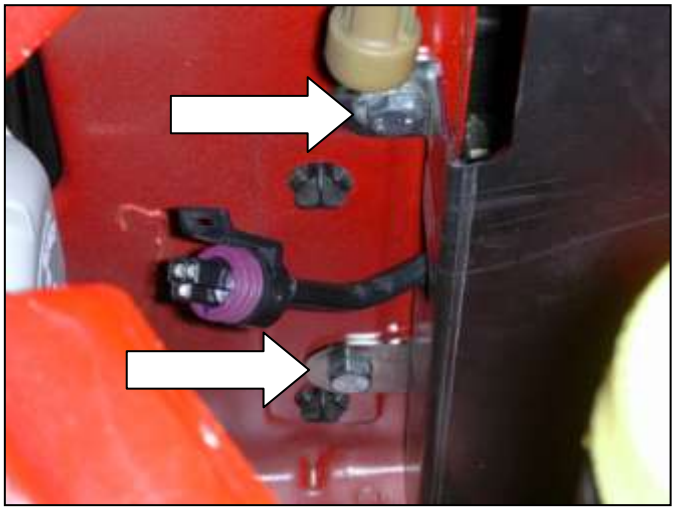


d. Install the rubber edge trim around the cut out where the wire harness will pass through.

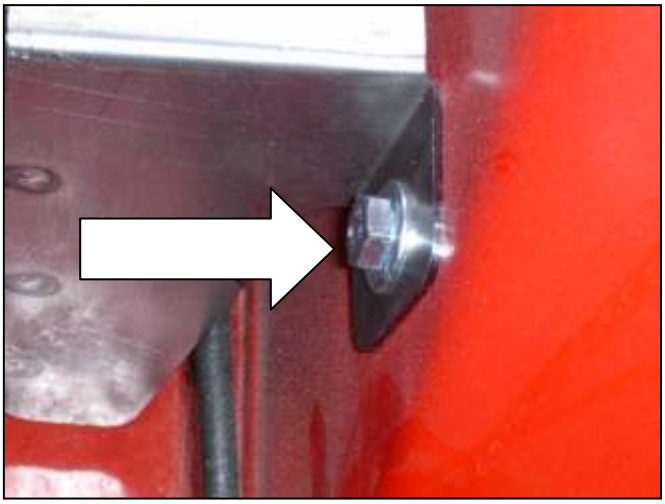


e. Carefully slide heat shield into engine bay. Push rubber grommet installed in previous step over the stud on the strut tower.

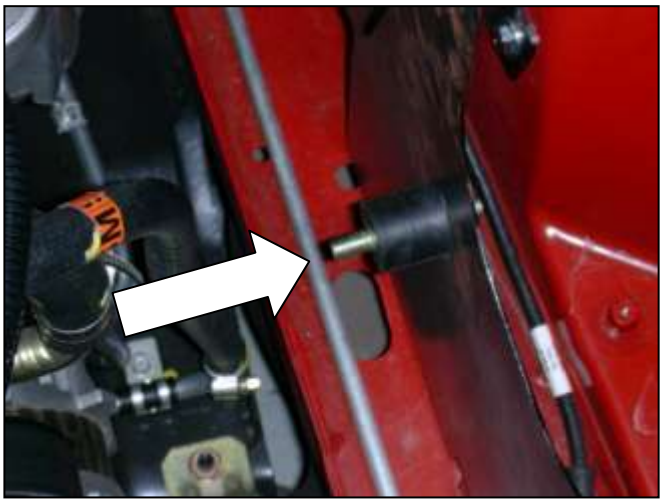
f. Be sure to have the wires run under the heat shield where the cut out on the bottom is located.



g. Insert the two supplied ¼" bolts into the holes on steel wall between the radiator and headlight housing. Loosely secure with the supplied ¼" washers and nylok nuts.



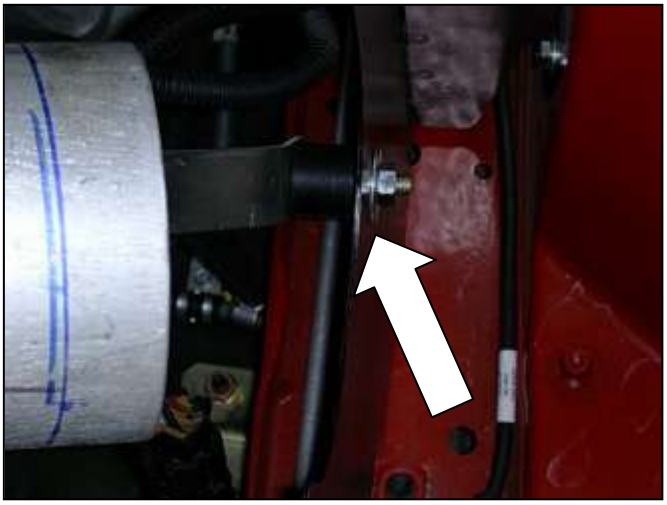
h. Install the M6 bolt with a ¼" washer through the hole in the tab on the heat shield. Once secured, fully tighten the (2) ¼" bolts from step 3g.



i. Install the supplied rubber mount into the heat shield with the rubber side toward the engine as shown.

j. Install the long end of the rubber elbow over the throttle body using the supplied #64 hose clamps.

k. Check to be sure the upper intake pipe is clear of any debris. Install the intake pipe by sliding it into the coupler attached to the throttle body.

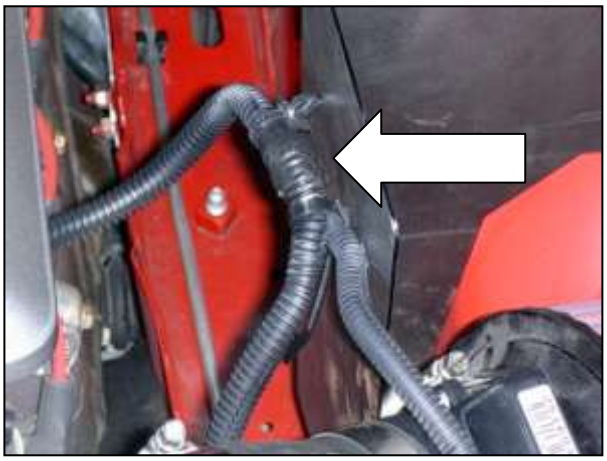


l. Align the intake pipe mounting bracket with the previously installed rubber mount on the heat shield. Use the supplied washer and serrated nut to secure.

m. Install the reducer coupler onto the smaller side (black plastic) of the MAF sensor housing using a #64 hose clamp to secure.

n. Install the AEM® air filter on to the end of the MAF Sensor housing. Push the air filter over the inlet pipe until the stop in the filter is reached; then install one hose clamp to secure the air filter. **NOTE: The air filter should be placed on the larger diameter side of the MAF sensor housing.**

o. Install the MAF sensor and filter into the previously installed reducer coupler. Plug in the MAF sensor and secure the unit using the #56 hose clamp.



p. Install the supplied heat shield zip-tie into the hole and secure the MAF sensor wiring harness.

q. Install the supplied 3/8” hose between the plastic breather hose and the aluminum nipple on the intake pipe. Secure using two ¾” hose clamps.

r. Reinstall the radiator shroud and check that the air filter is not touching any part of the vehicle.

s. Position the AEM® intake for best fitment. Be sure that the pipe or any other component is not in contact with any part of the vehicle. Tighten the hose clamps at the throttle body and silicone coupling. Tighten the nut on the mounting bracket. Re-adjust pipe if necessary.

Factory air box system installed

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.