



COLD AIR SYSTEM

Installation Instructions for:
Part Number 21-521
2003-2005 Hyundai Tiburon V6

ATTENTION:

This installation procedure requires some body modifications and may require the use of specialized power tools. If you do not have the proper experience to handle these modifications please have an experienced mechanic perform this installation. **When using any power tools always use proper eye and hand protection.**

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Instructions Part Number: 10-341
2003 Hyundai Tiburon V6 C.A.R.B. E.O. #D-392-21
2004-2005 Hyundai Tiburon V6 C.A.R.B. E.O. #Pending
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Congratulations! You have just purchased the finest Air Induction & Filtration system for your car at any price!

The **AEM** Cold Air System is the result of extensive development on a wide variety of cars. Each system is engineered for the particular application. The **AEM** Cold Air System differs from all others in several ways. We take the inlet air from outside of the engine compartment where the inlet air is considerably cooler than the hot underhood air. The cooler inlet air temperature translates to more power during the combustion process because cool air is denser than warm air. **AEM** has conducted extensive inlet air temperature studies and we have seen temperature reductions of up to 50 degrees by pulling air from outside of the engine compartment. The air mass flow to the engine is increased because of the increased airflow *and* reduced inlet temperature, which translates to more power. The **AEM** Cold Air Systems are **50 states Street Legal** (some models and years still pending) and come with complete instructions for ease of installation.

Our system is constructed of lightweight aluminum and then painted with a zirconia based powder coat for superior heat insulating characteristics. The aluminum will not crack in extended use like plastic and it is actually lighter than plastic. The tube diameter and length are matched for each engine to give power over a broad rpm range. Unlike the plastic systems that use a continually diverging cross section, we take advantage of the acoustical energy in the duct to promote cylinder filling during the intake valve-opening event.

Our Dyno testing as well as **independent dyno tests** (see 7/97 Sport Compact Car Magazine) prove that the **AEM** Cold Air System produces as much as twice the power gain than any other system on the market.

Bill of Materials for: Part #21-521

1	2-502B,C,R,P*	Inlet Pipe
1	2-503B,C,P,R*	Inlet Pipe
1	1228599	Rubber Mount
1	444.460.04	6mm Nyloc Nut
1	559999	6mmX25mmX1mm Washer
1	21-203	3" Air Filter & Clamp
1	103-BLO-4420	2.75" Hose Clamp
5	103-BLO-4820	3" Hose Clamp
2	5-300	3" Connector Hose
1	5-273	3" to 2.75" Reducer
7"	516-006	5/16" Breather Hose
2	4093-5	3/4" Hose Clamp
1	10-341	Instructions
1	10-922C	AEM Chrome Decal
2	10-922S	AEM Silver Decal
1	10-400W	White License Plate Frame
1	10-905	Warning Decal

Read and understand these instructions BEFORE attempting to install this product.

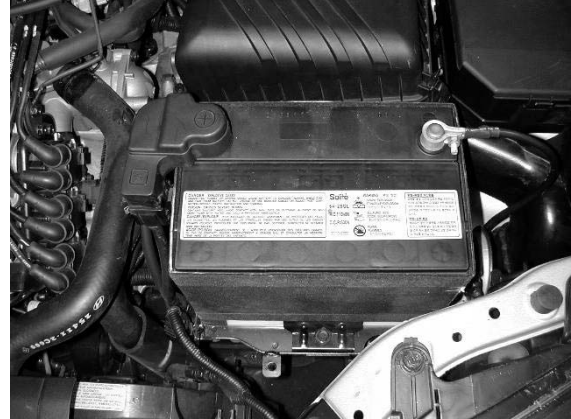
1) Getting Started

- a) Make sure vehicle is parked on a level surface.
- b) Set parking brake.
- c) Jack the front of the vehicle and support using properly rated jack stands.
- d) Remove the front left tire. Remove the inner fender wheel well lining.
- e) If engine has run within the past two hours let it cool down.

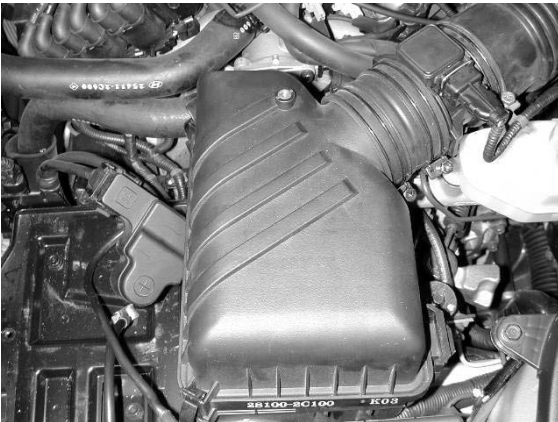
2) Removal of the stock intake system.



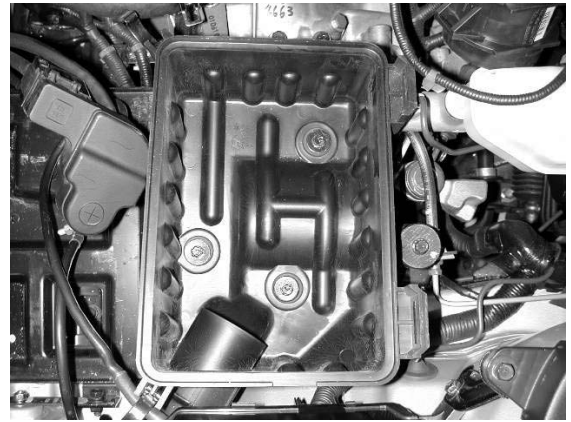
a. Remove the plastic covers covering the stock intake system and battery.



b. Disconnect and remove the battery from the engine compartment.



c. Remove the hose clamp securing the filter box top to the air flow sensor. Unclip the filter top box and remove.



d. Remove the filter from the lower filter box. Remove the three bolts securing the lower box and remove.



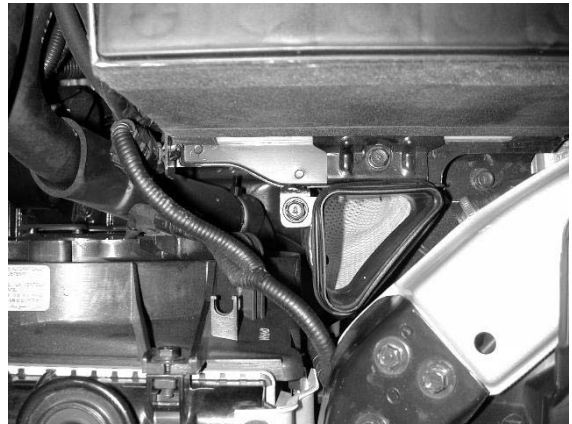
e. Remove the lower filter box support bracket from the vehicle.



f. Remove the hose clamps securing the stock inlet pipe in place. Remove the breather tube and stock inlet pipe from the vehicle.



g. Remove the bolt securing the lower inlet pipe and remove from the vehicle.



h. Remove the bolt securing the lower resonator box.



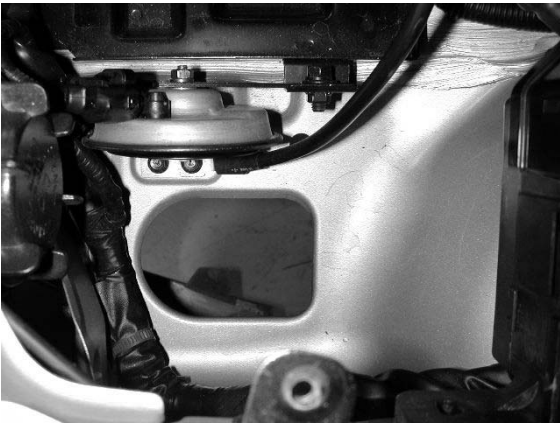
i. Remove the nut securing the lower resonator in place.



j. Remove the last nut securing the lower resonator and remove.

3) Installation of the *AEM* Cold Air Intake System.

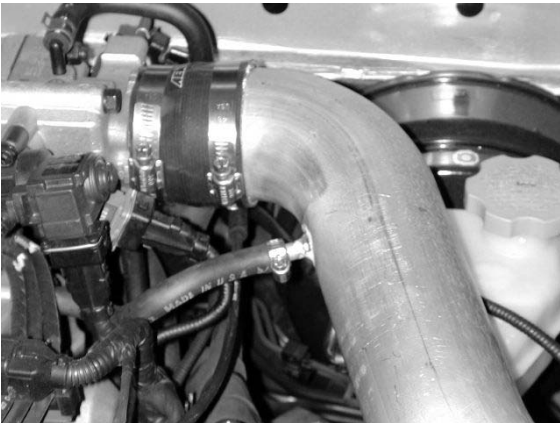
- a) When installing the Cold Air Intake System, DO NOT completely tighten the hose clamps or mounting tab hardware until instructed to do so later in these instructions.



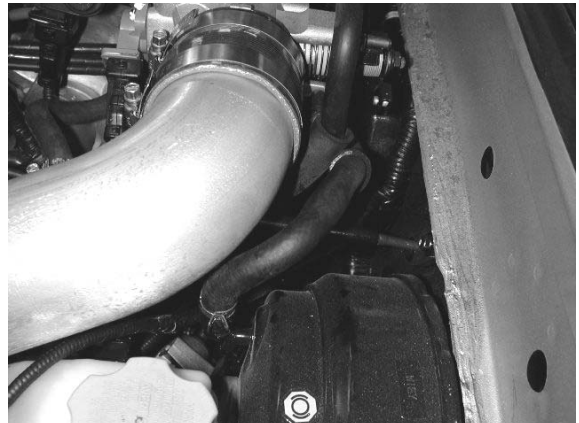
b. The factory hole in which the inlet pipe passes through must be enlarged to make clearance for the *AEM* CAS Intake pipe.



c. View of enlarged hole.



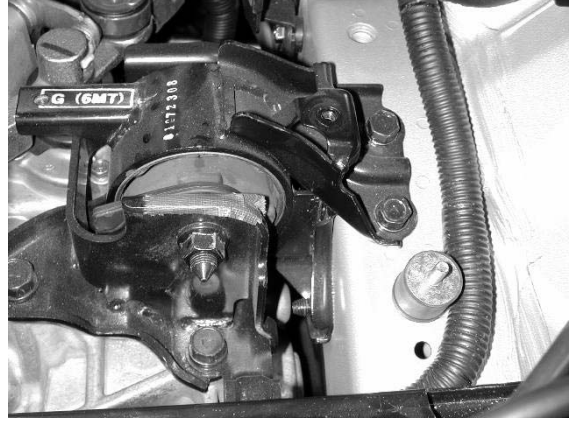
d. Install the upper inlet pipe in the vehicle. Use the reducer coupler and the 2.75" and one of the 3" hose clamps to secure the inlet pipe in place. Install the new breather hose in place and use the hose clamps to secure.



e. Remove the brake booster vacuum line hose clamp and push the vacuum hose down completely over the metal nipple and re-install hose clamp to make clearance room for the intake pipe.



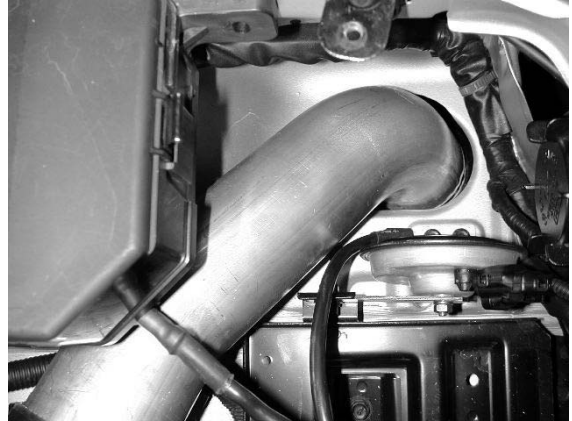
f. Install one of the 3" coupler on the end of the upper inlet pipe and use the supplied 3" hose clamps to secure it to the air flow sensor.



g. Install the rubber soft mount in the threaded hole exposed by the removal of the mounting bracket in step 2(e).



h. Install the second 3" coupler onto the lower intake pipe and secure in place using the supplied 3" hose clamps. Install the washer and nyloc nut to secure the inlet pipe bracket to the rubber mount. **Failure to install the rubber mount will void all warranties of the Cold Air System.**



i. The lower intake pipe will pass through the hole in the fender well make sure it is not contacting any part of the body.



j. Install the air filter and secure in place using the supplied hose clamp.

4) Re-assemble the vehicle

- a) Position the inlet pipe for best fitment. Be sure that the pipe or any other components do not contact any part of the vehicle.
- b) Tighten all hose clamps.
- c) Tighten the nut on the mounting tab.
- d) Re-install the battery and battery hold down bracket.
 - i) Note: When the battery has been disconnected and reconnected, some abnormal drive symptoms may occur while the vehicle relearns its idle characteristics. The vehicle may need to be driven 10 miles or more to relearn the idle curve.
- e) Re-install the right front fender well lining.
- f) Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are tight.
- g) Start engine and perform a final inspection before driving the vehicle.