COLD AIR SYSTEM

Installation Instructions for:
Part Number 21-505
2002-2005 Acura RSX Base MT

ADVANCED ENGINE MANAGEMENT INC.
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Instructions Part Number: 10-7063
2002-2004 Acura RSX Base MT K20A3 C.A.R.B. E.O. #D-392-20
2005 Acura RSX Base MT K20A3 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 model 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.

For technical inquiries please e-mail us at tech@aempower.com

Bill of Materials for: 21-505 2002-2004 Acura RSX Base MT

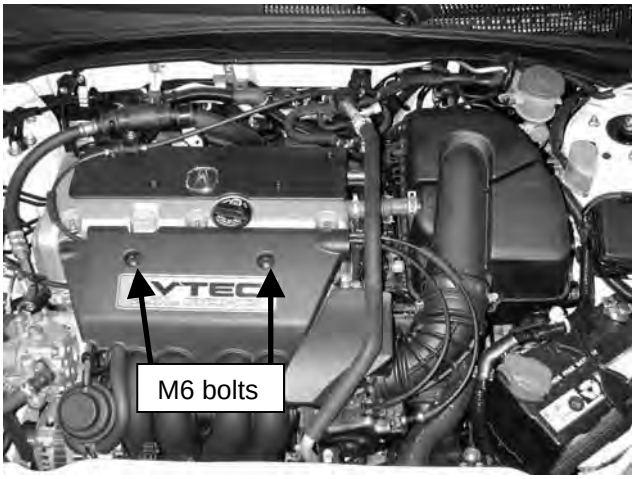
Quantity	Part Number	Description
2	103-BLO-4420	2.75" Hose Clamp
1	30217-2	Drilled 2.75" Rubber Elbow
1	2-592	INLET PIPE,RSX BASE 5SPD
28"	65128	HOSE 3/8ID
2	4093-5	HOSE CLAMP,3/4"
2	4093-8	HOSE CLAMP, 1 1/4" NARROW
30"	65002	HOSE,3/4ID
1	1228560	MOUNT,RUBBER 1" X 8MM
1	559960	WASHER,8MM SOFT MOUNT
1	444.460.08	NUT,NYLOK 8MM
1	1-115	ZIP TIE,11.25 LONG
1	10-922EV	EMBLEM,CAS/SRS VINYL
1	21-203	AIR FILTER ASMBLY 3.00 5" SHORT
1	9-506	AEM RSX RPLCMNT WSHR BTL
2	10-922S	DECAL,AEM LARGE SILVER
1	10-400W	LIC PLATE FRAME,WHITE
1	10-7063	INSTRUCTIONS RSX BASE 5SPD
2	103-BLO-4420	2.75" Hose Clamp

Read and understand these instructions <u>BEFORE</u> attempting to install this product.

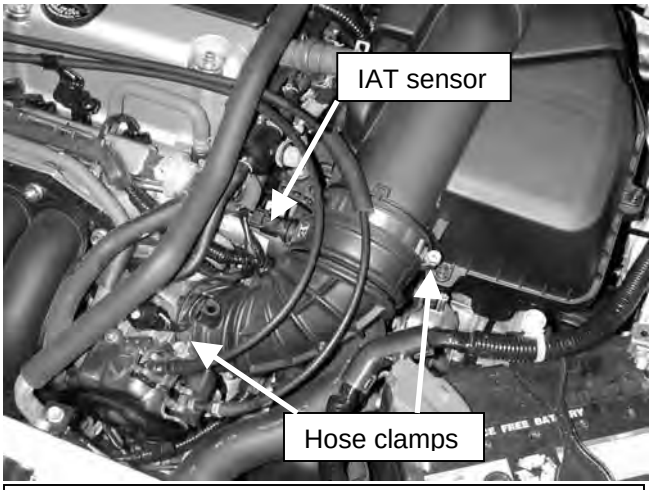
1) Getting Started

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 wheel.
e) Remove the left fender well lining. Remove the lower splashguard. Set aside as they will be re-installed on the vehicle.
f) Disconnect negative battery terminal.
g) If engine has run with in the past two hours let it cool down.

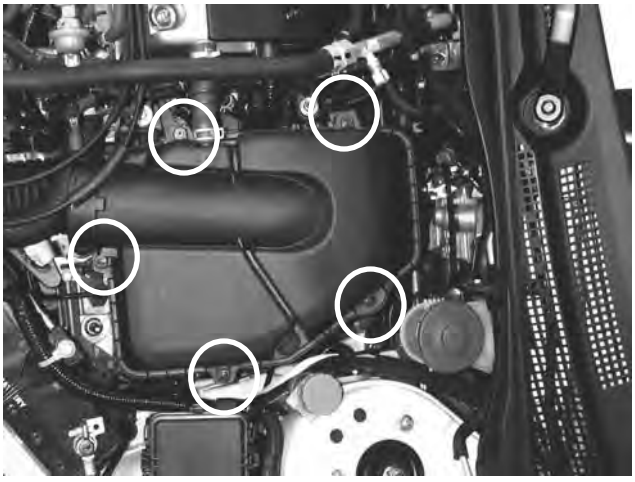
2) Removal of the stock intake system.



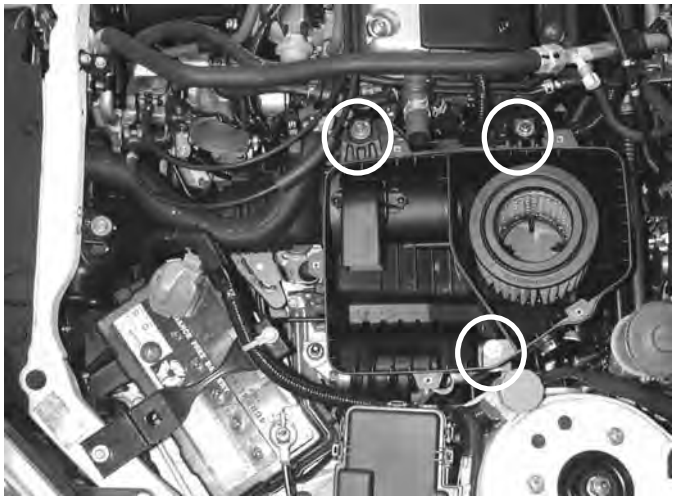
A) Remove the two M6 bolts holding down the injector cover and remove the cover.



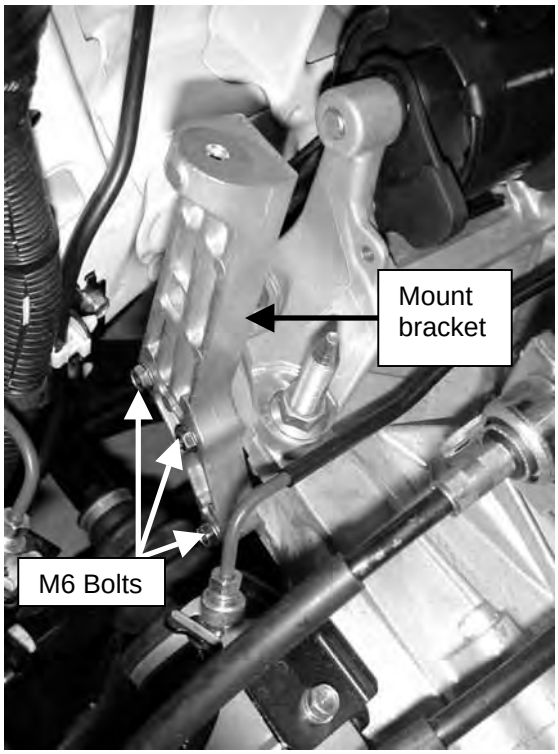
B) Loosen the two hose clamps securing the stock intake tube to the throttle body and filter box. Unplug the intake air temp (IAT) sensor, and remove the stock intake tube.



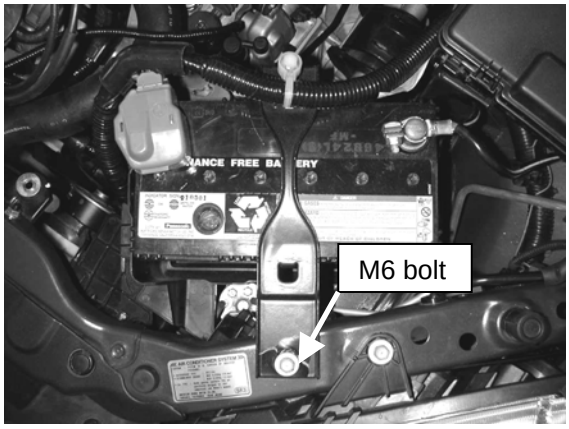
C) Loosen the 5 Phillips head screws and remove the air filter box cover.



D) Loosen the two M6 bolts and the M6 nut securing the air filter box and remove it.

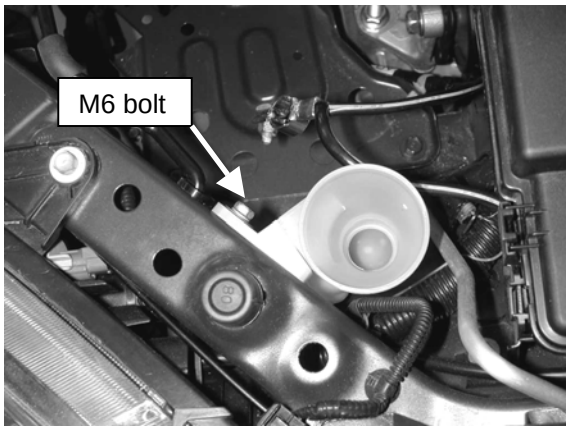


E) Remove the three M6 bolts that secure the air box support bracket and save them for later use. Remove the air filter box mount bracket.

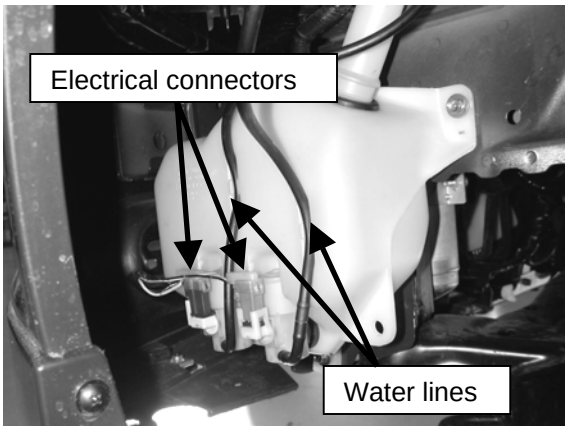


F) Remove the positive cable from the battery. Remove the M6 bolt securing the battery tie down in place. Remove the battery and trays.

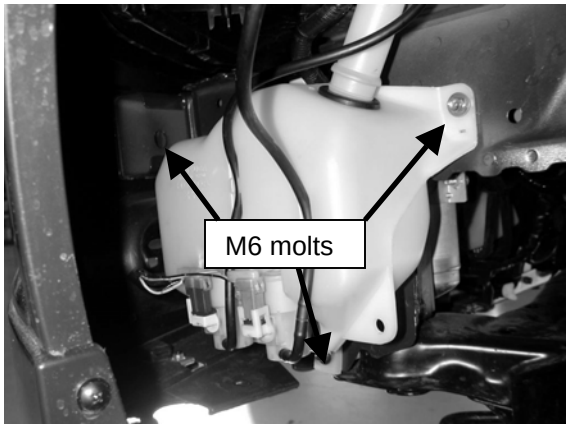
3) Removal of stock windshield washer bottle.



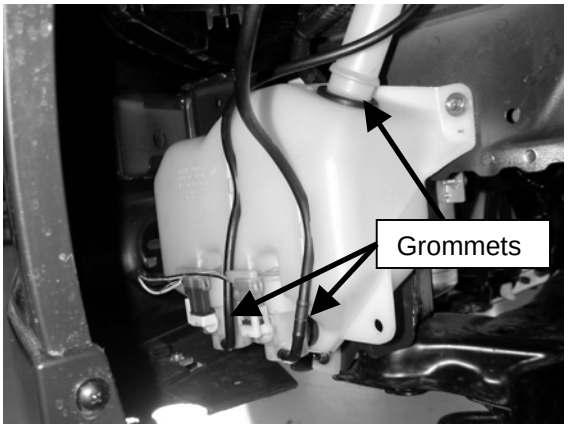
A) Remove the M6 bolt securing the washer bottle filler neck. Remove the washer bottle filler neck by pulling it up.



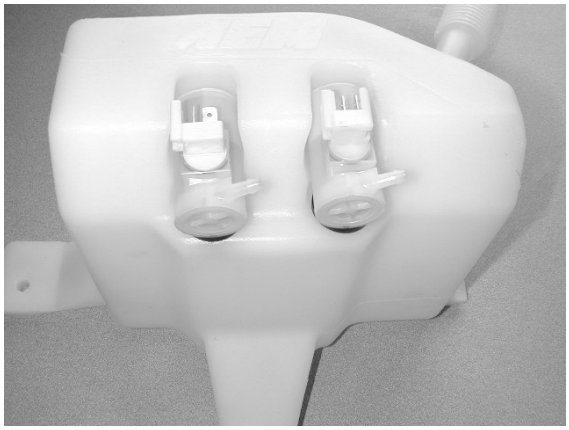
B) Remove the electrical connectors and water lines from the windshield wiper motors. Drain washer bottle fluid into a suitable container.



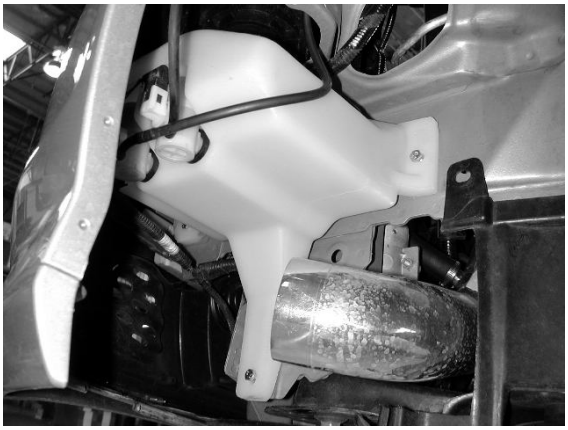
C) Remove the three M6 bolts securing the washer bottle in place. Pull the filler tube out of the bottle.



D) Remove the two pumps by pulling them from the rubber grommets. Remove the two grommets from the washer bottle along with the grommet for the filler tube.



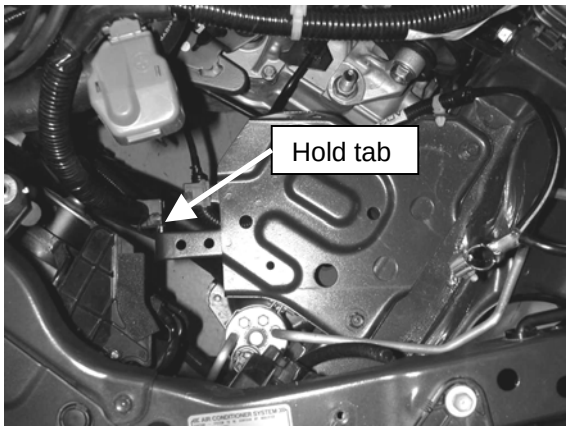
E) Reinstall the two pump grommets and the fill tube grommet on the replacement washer bottle as shown. Wet the grommets with soapy water and insert the two washer pumps and fill tube.



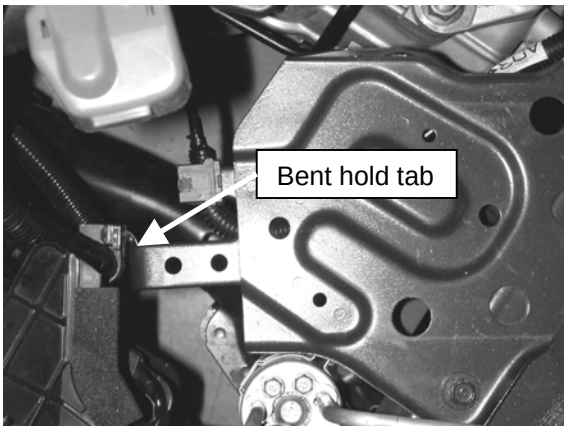
Secure the new washer bottle with the three air box bracket bolts removed in step 2E. Reconnect the two feeder lines and the two electrical connectors to the pumps.

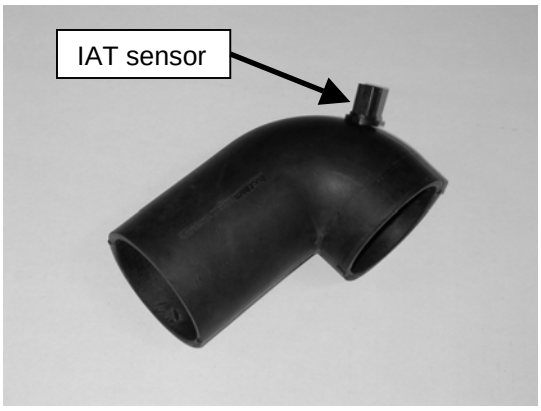
4) Installation of the *AEM* Cold Air Intake System.

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.

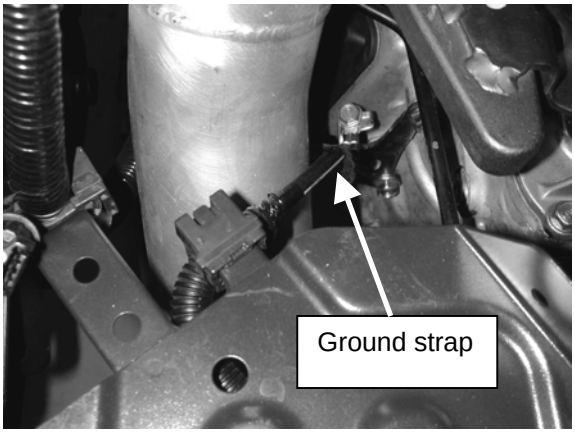


B) With a pair of pliers bend the positive battery cable hold tab 90 degrees.

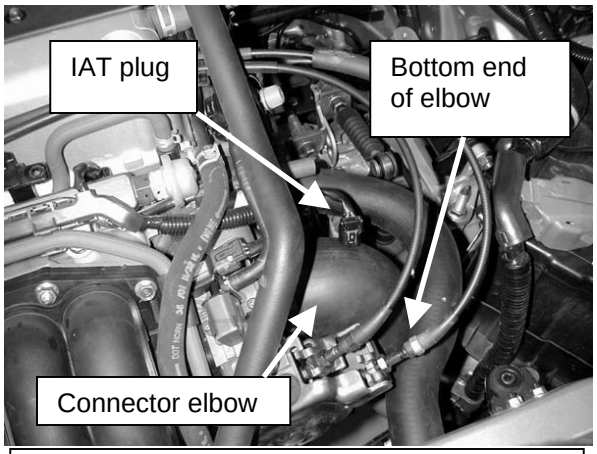




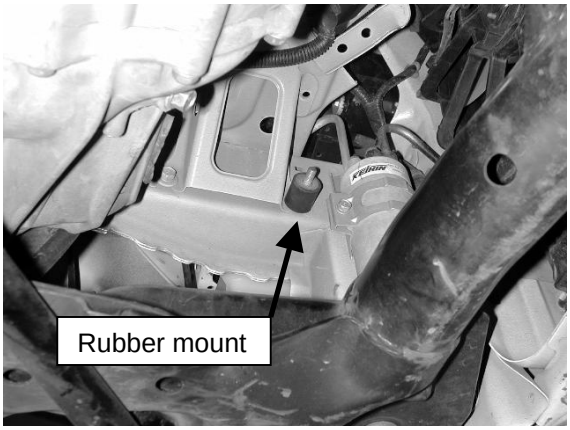
C) Install the inlet air temp sensor. A small amount of lubricant can be used on the I.D. of the hole to make installation easier.



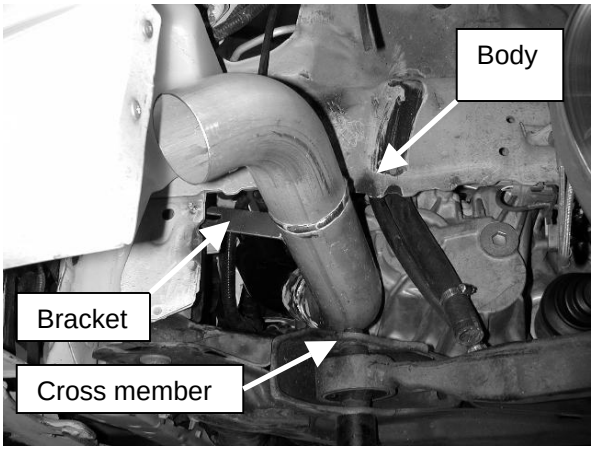
D) Loosen the bolt securing the ground strap to the transmission bracket and rotate so that it is installed in this manner.



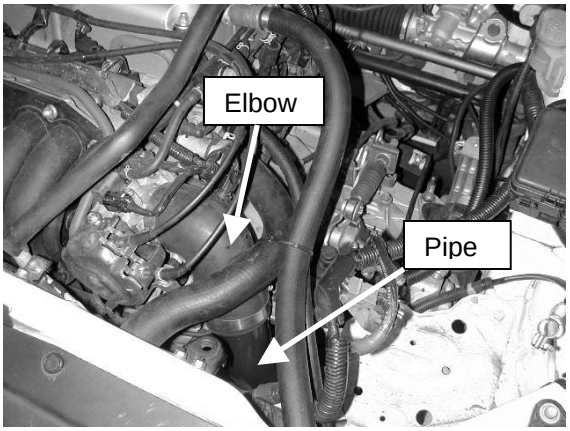
E) Using supplied a No. 44 clamp, Install the supplied connector elbow onto the throttle body, and reconnect the IAT sensor. Slide supplied No. 44 clamp onto bottom end of elbow in preparation for pipe install.



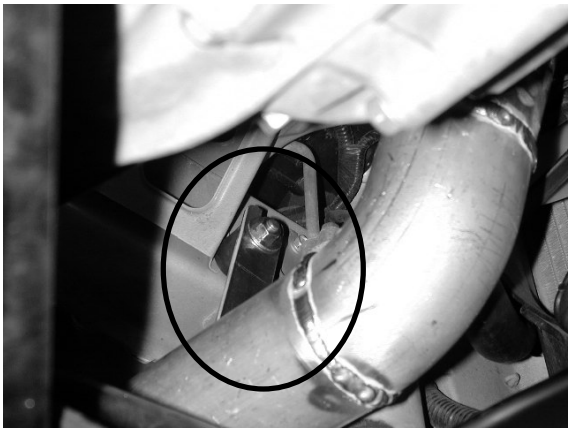
F) Remove the bolt under the battery tray and replace it with the supplied rubber mount as shown. **Failure to install the rubber mount will void all warranties of the Cold Air System.**



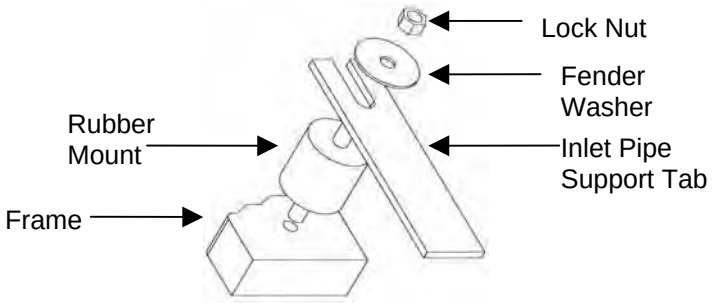
G) For ease of pipe installation, route pipe between cross member and body with bracket oriented to the upper left as shown.



H) Install pipe into lower end of elbow as shown.

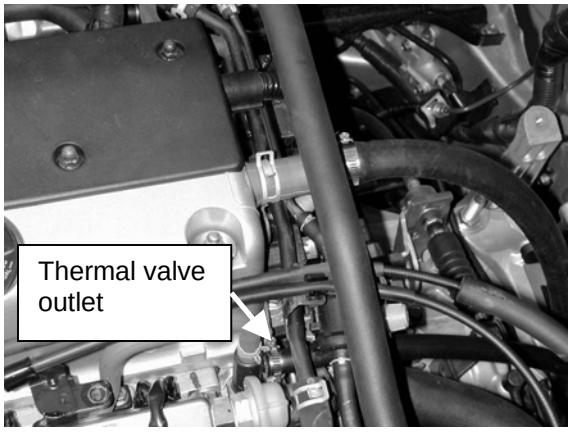


I) Secure the mounting bracket to the rubber mount with the supplied washer and Nylok nut.

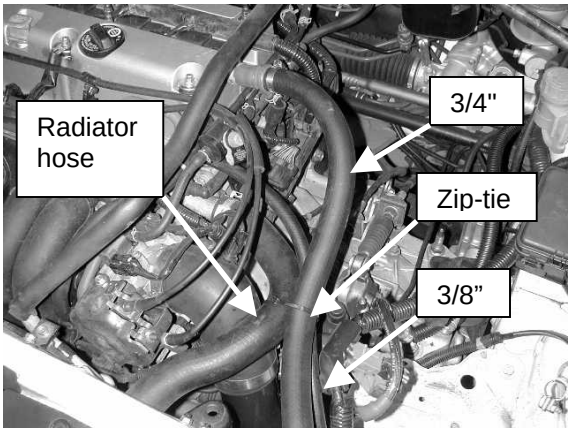


J) Proper rubber mount installation.

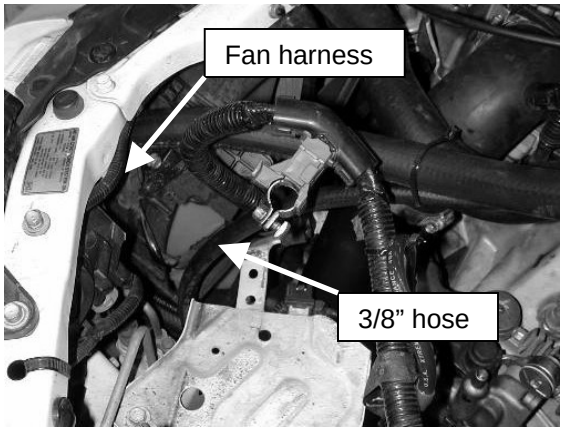
K) Install the AEM air filter onto the lower end of the inlet pipe.



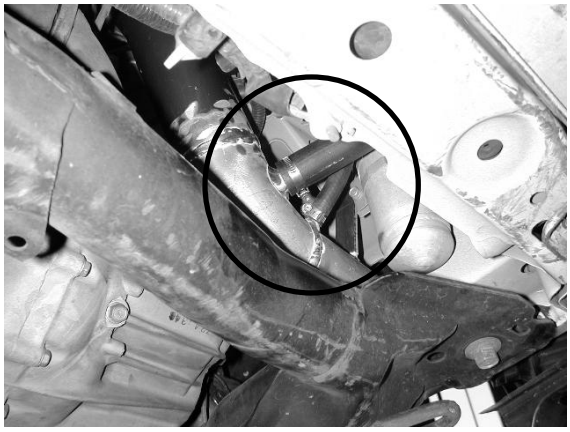
L) Connect the supplied 3/4” hose to the valve cover breather tube and the 3/8” hose to the thermal valve outlet, using the supplied clamps.



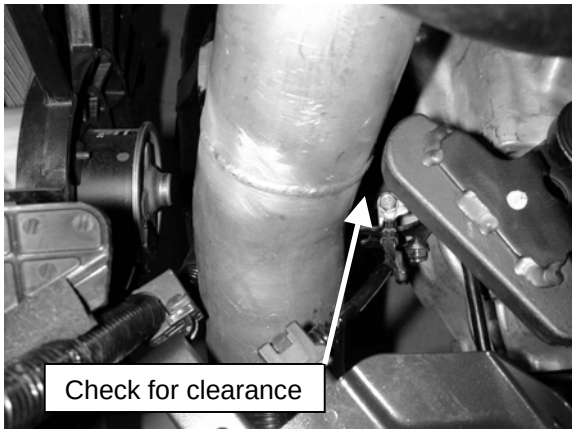
M) Secure 3/4” and 3/8” hoses to upper radiator hose with supplied 11” zip-tie.



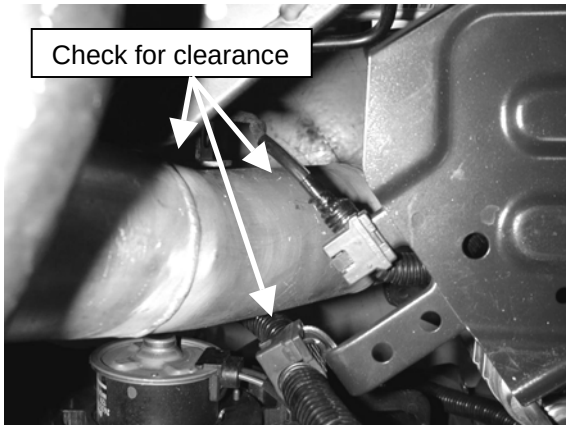
N) Route the 3/4" breather tube behind the fan wiring harness. Route the 3/8” hose between fan shroud and battery tray as shown.



O) Connect the 3/4” and 3/8” hoses to the Cold Air System pipe, and secure with the supplied clamps as shown.



P) Check for clearance between the intake pipe and the shift arm. **Watch the arm as it is shifted through its full range of motion**.



Q) Check for clearance between the pipe and surrounding objects.

R) The fender liner *must* be trimmed for the intake system to fit properly. **Trim and reinstall the fender liner. Failure to do so will void the warranty.**

S) AEM Cold Air Intake System installed.

5) 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) Reinstall left front wheel. Torque lug nuts to 85 lb-ft.
e) Re-install the battery tray, battery and battery hold down bracket. 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
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.