



# ***SHORT RAM SYSTEM***

Installation Instructions for:  
Part Number 22-506  
2002-2004 Acura RSX Type-S

**ADVANCED ENGINE MANAGEMENT INC.**

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Instructions Part Number: 10-312

2002-2003 Acura RSX Type-S K20A2 C.A.R.B. E.O. #D-392-20

2004 Acura RSX Type-S K20A2 C.A.R.B. E.O.#D-392-24

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**Congratulations!** You have just purchased the finest Air Induction & Filtration system for your car at any price!

The **AEM** Short Ram Air Intake System is the result of extensive development on a wide variety of cars. It is the most advanced short pipe air intake system on the market. Each system is specifically engineered for its application. All **AEM** Short Ram Air Intake Systems deliver maximum performance gains through lightweight, all-aluminum, mandrel-bent tubing that is tuned in both length and diameter. The aluminum will not crack in extended use like plastic. The tube length and diameter are matched for each specific engine to give power over a broad RPM range. Unlike plastic systems that use a continually diverging cross-section, we take advantage of the acoustical energy in the inlet duct to promote cylinder filling during the intake valve-opening event. Every intake is coated with a high-gloss, heat-reducing Zirconia based powder coating. This special blend of powder coating helps reduce heat penetration, which in turn reduces the temperature of the inlet air charge. The cooler inlet air temperature translates to more power during the combustion process because cool air is denser than warm air. The filter element has also been extensively developed. An integral part of all our filter elements is a built-in velocity stack. This velocity stack is specifically engineered to improve the aerodynamic efficiency of the intake system. We have seen airflow gains on a flow bench of 12-15% by using this velocity stack. The *air mass* flow to the engine is increased because of the increased airflow and reduced inlet temperature, which translates to more power.

**Bill of Materials for: 22-506      2002-2003 Acura RSX Type-S**

1	2-5061	Inlet Pipe
1	784639	Rubber Grommet
1	444.460.04	6mm Nyloc Nut
1	559999	6mm X 1mm X 25mm Washer
1	2-647	Aluminum Spacer
1	21-203	3" Filter & Clamp
2	103-BLO-4820	3" Hose Clamp
1	5-302	3" x 2" Connector Hose
1	10-312	Instructions
1	10-922C	<b>AEM</b> Chrome Decal
2	10-922S	<b>AEM</b> Silver Decal
1	10-400W	White License Plate Frame

**For technical inquiries e-mail us at [tech@aempower.com](mailto:tech@aempower.com)**

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

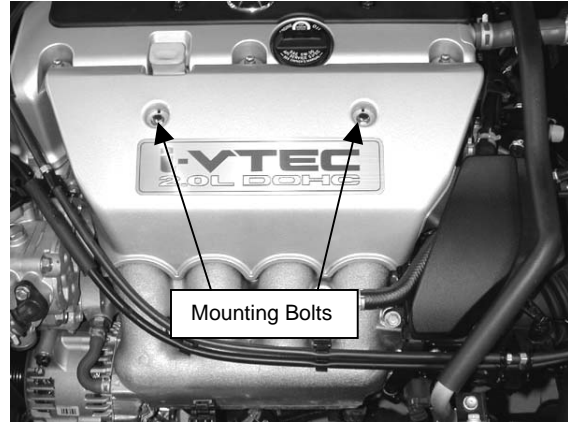
### 1) Getting Started

- a) Make sure vehicle is parked on a level surface.
- b) Set parking brake.
- c) Disconnect negative battery terminal.
- d) If engine has run with in the past two hours let it cool down.

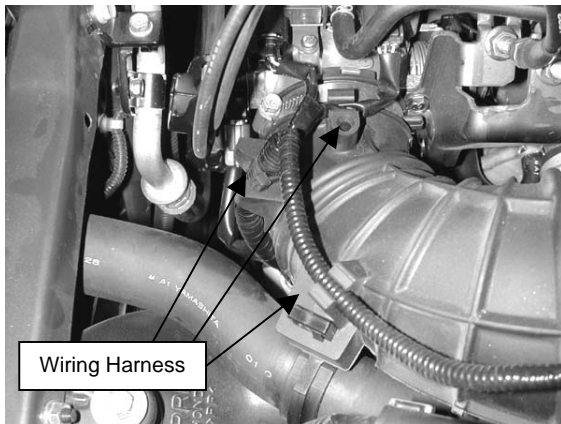
### 2) Removal of the stock intake system.



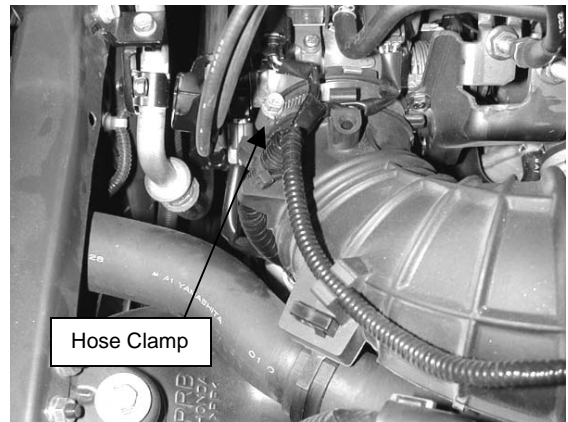
a. Stock system installed in vehicle.



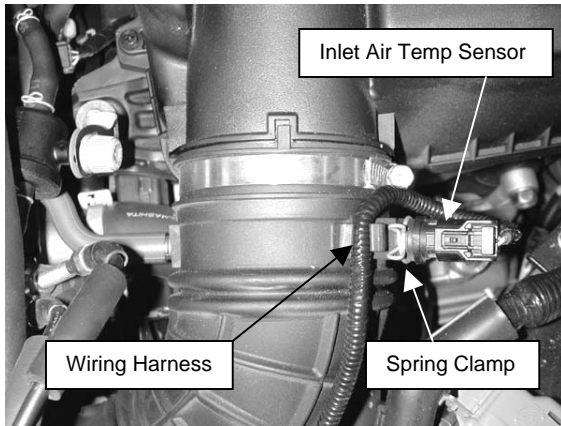
b. Remove the two mounting bolts securing the upper engine cover. Remove the engine cover.



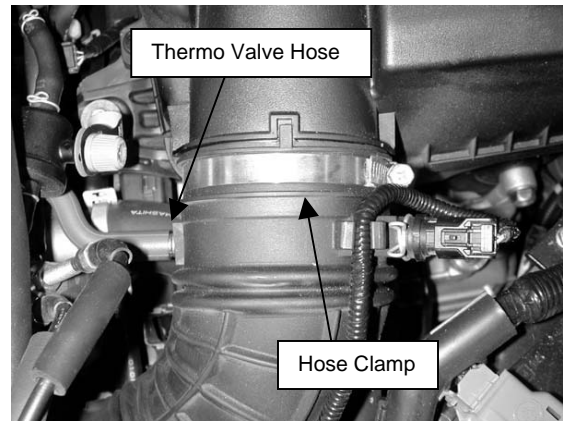
c. Remove the wiring harness from the rubber holds in the stock upper intake tube.



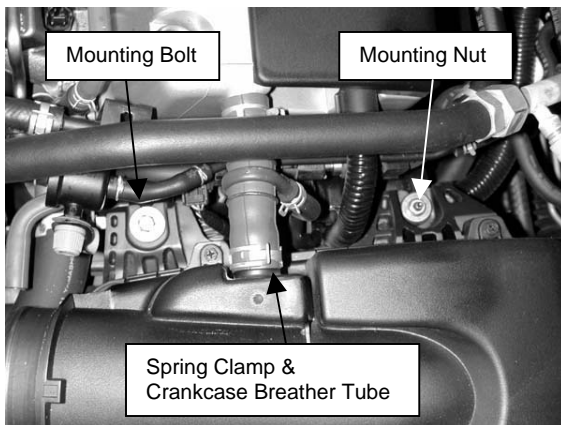
d. Remove the hose clamp securing the stock upper intake tube to the throttle body.



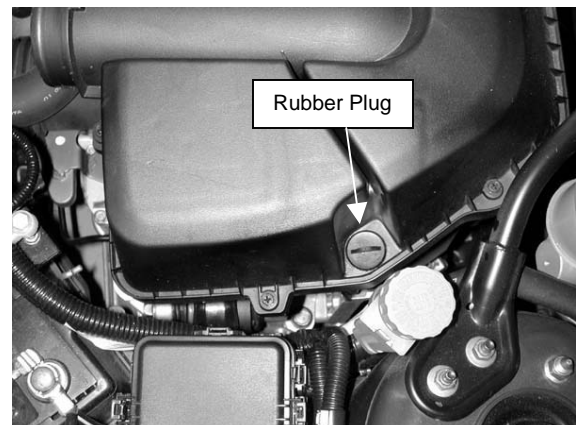
e. Remove the wiring harness from the rubber holds in the stock upper intake tube. Disconnect the inlet air temp sensor wiring harness. Loosen the spring clamp securing the inlet air temp sensor and remove. Set the inlet air temp sensor aside as it will be reinstalled on the **AEM** intake system.



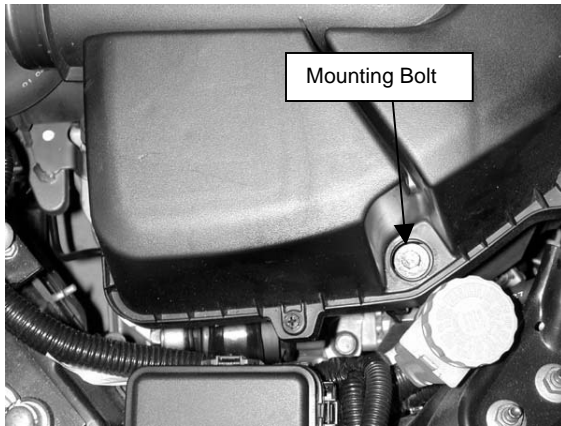
f. Remove the hose clamp securing the stock upper intake tube to the filter box. Remove the thermo valve hose. Remove the stock upper intake tube from the vehicle.



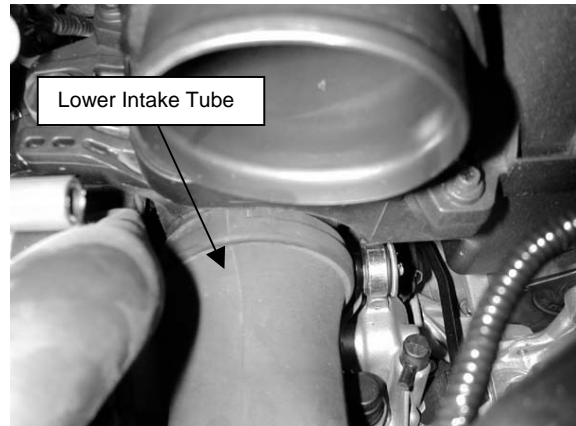
g. Loosen the spring clamp securing the crank case breather tube and remove from the filter box. Remove the mounting bolt securing the filter box. Remove the mounting nut securing the filter box.



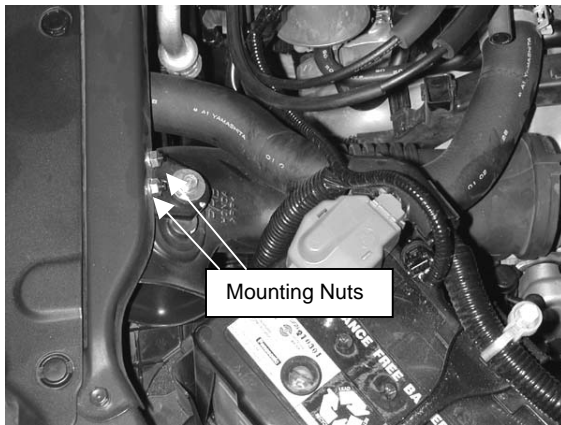
h. Remove the rubber plug from the filter box.



i. Remove the mounting bolt securing the filter box.



j. Disconnect the lower intake tube from the air filter box. Remove the air filter box.



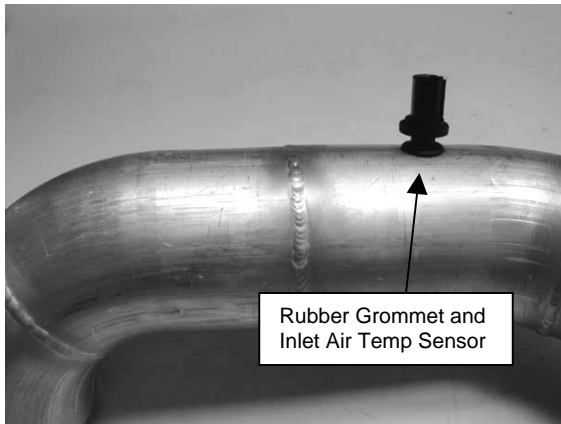
k. Remove the two mounting nuts securing the lower intake tube to the chassis. Remove the lower intake tube.



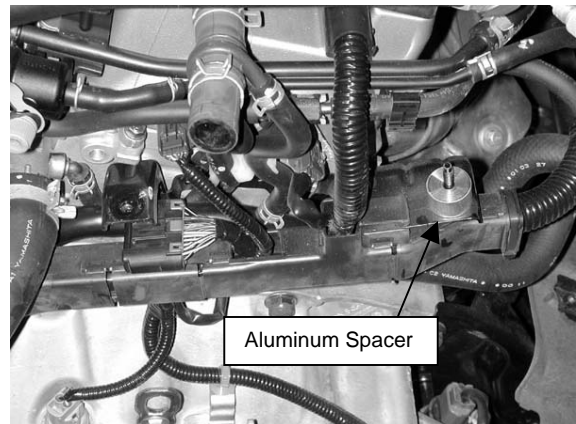
l. Stock intake removed from vehicle.

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

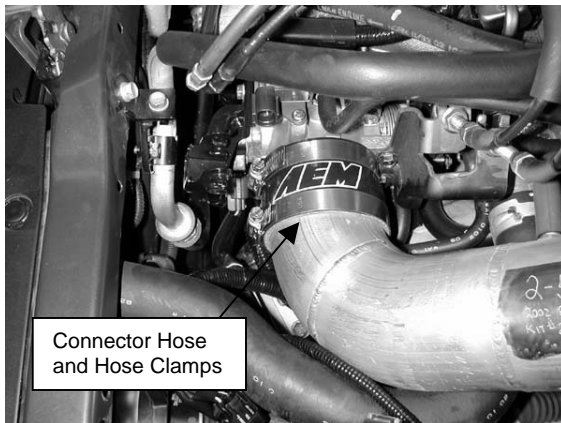
- a) When installing the Cold Air Intake System, DO NOT completely tighten the hose clamps or mounting tab hardware until instructed to do so later in these instructions.



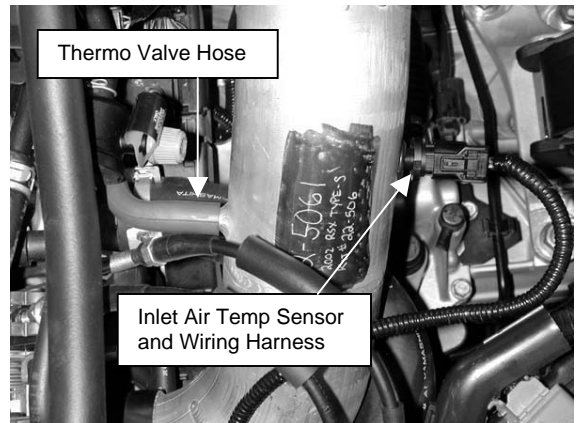
- b. Install the supplied rubber grommet in the intake pipe. Install the inlet air temp sensor.



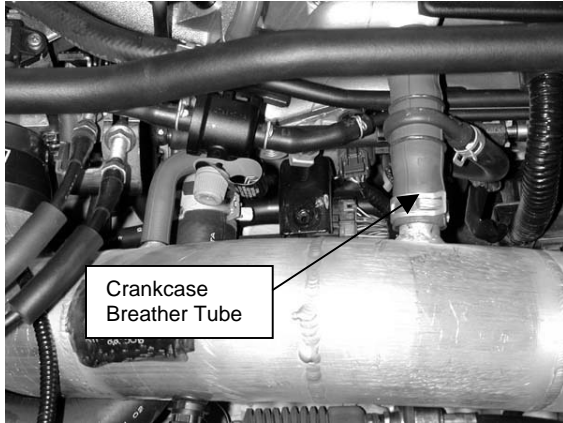
- c. Install the aluminum spacer over the exposed stud from removing the stock filter box.



- d. Install the supplied connector hose onto the throttle body and the intake pipe. Install the two supplied hose clamps on the connector hose.

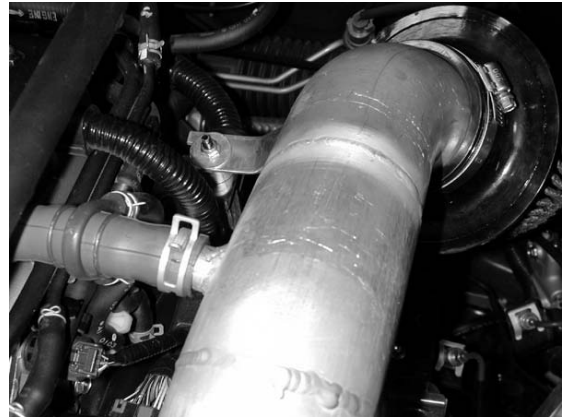


- e. Install the thermo valve hose on the intake pipe. Plug in the inlet air temp sensor wiring harness.



Crankcase  
Breather Tube

f. Install the crankcase breather tube on the intake pipe and secure it with the stock spring clamp.



g. Install the intake pipe over the aluminum spacer. Use the supplied nyloc nut and washer to secure the intake pipe.



h. Install the **AEM** filter on to the end of the intake pipe. Install the supplied hose clamp to secure the filter on to the intake pipe.



i. View of the **AEM** intake system installed on vehicle.

- j. Position the intake pipe for best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle. Tighten the hose clamps.
- k. Check for proper hood clearance. Re-adjust pipes if necessary.



#### 4) Final Inspection.

- a) Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tight.
- b) Start the engine and perform a final inspection before driving the vehicle.