



# ***FILTERCHARGER*® INJECTION PERFORMANCE KIT**

— INSTALLATION MANUAL —

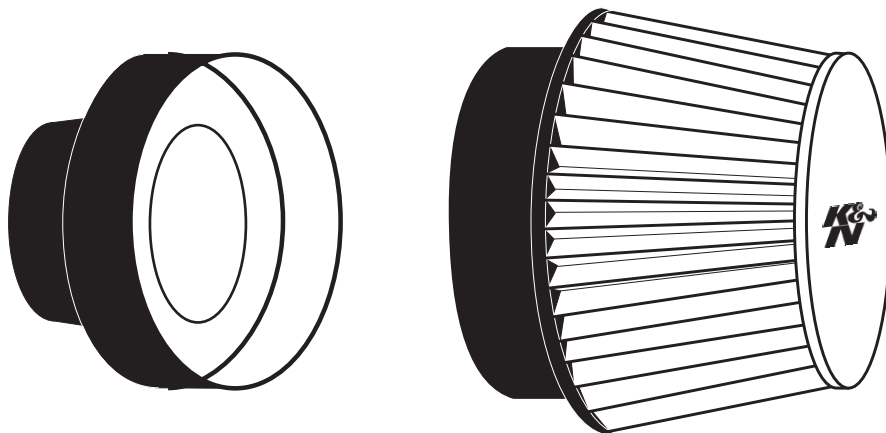
**Acura NSX**

**1991-1994**

**V6-3.0L**

**P/N 57-3502**

**CARB E.O. # D-269-8**



**K&N Engineering, Inc.**

**1455 Citrus Avenue**

**P.O. Box 1329**

**Riverside, CA 92502**

K&N Filtercharger® Injection Performance Kit #: **57-3502**

Application: **1991-94 Acura NSX V6-3.0L engine**

Air-flow sensing device: **speed density**

### **BASIC DESIGN CONCEPT**

This K&N Filtercharger® Injection Performance Kit (hereafter referred to as: **FIPK**) is designed to be less restrictive than the OEM air filter system. Low restriction air filters allow the engine to have better throttle response as well as more power throughout the RPM band. K&N has designed this **FIPK** to exactly replace the OEM factory air cleaner case, with a precision engineered aluminum adapter and all the necessary mounting brackets, bolts, screws and nuts. Additionally, it is important to note, if the O.E.M. air cleaner case has emission control devices and/or hoses, that all these parts will be installed as necessary to the new assembly.

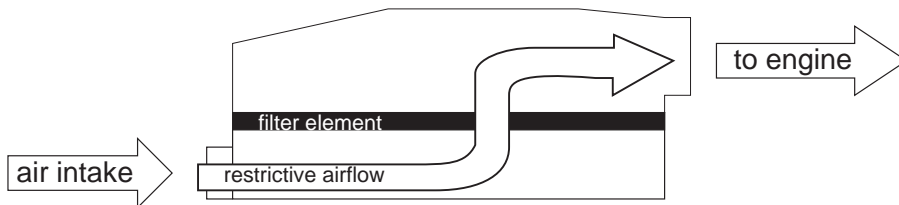
Each **FIPK** has a specially designed filter with woven cotton fabric sandwiched between 2 layers of wire mesh screen. The screen and fabric combination creates a grid-like effect which actually straightens out the incoming air as it passes through the filter. In addition to the filter, this kit has a uniquely designed adapter with a built-in velocity stack. This velocity stack is beneficial in further smoothing out the incoming air flow and allowing for a less restrictive entry into the engine. (Air moving in a straight direction moves faster than tumbling air thus creating an increase in air flow). See the figure below.

### **AIR CLEANER DESIGN EFFECTIVENESS**

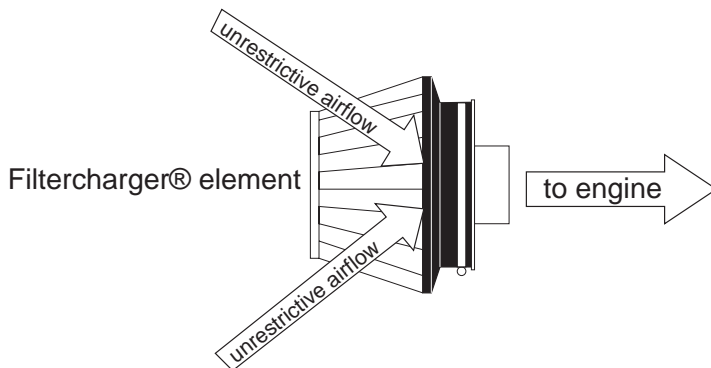
To design an effective performance air filter assembly, two factors must be considered: the air filtering element and the air filter adapter. On fuel injected, computer controlled vehicles, there can be a substantial gain in performance by using a less restrictive air filter assembly. Original equipment air filter assemblies tend to be more restrictive than the performance enthusiast would like, therefore, by changing to the less restrictive K&N **FIPK**, the air flow potential of the engine can be fully maximized without jeopardizing important emission standards. (see figures below)

### **EMISSIONS LEGAL**

The **FIPK** is street legal for use on the emission controlled vehicles that it was originally designed to fit. These kits replace the original air filter case and do not eliminate the emission controls. The high temperature label contains the EO # assigned by C.A.R.B. that will allow a vehicle installed with the **FIPK** to pass the visual inspection at an authorized Smog Inspection station.



**OEM air filter assembly**

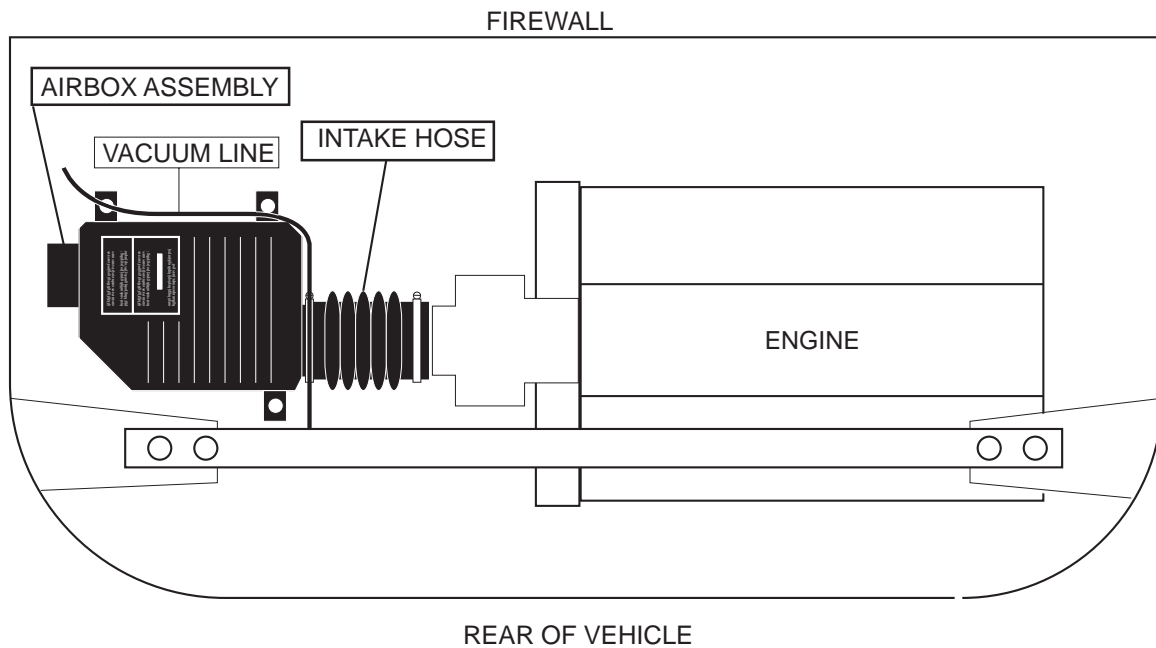


**FIPK assembly**

# INSTALLATION INSTRUCTIONS

CAUTION!! PLEASE READ CAREFULLY AND COMPLETELY BEFORE BEGINNING WORK ON YOUR VEHICLE. K&N suggests that you have a repair manual available for reference during installation of the K&N Filtercharger® Injection Performance Kit.

## ACURA NSX ENGINE COMPARTMENT



## INSTALLATION

- 1) Disconnect the vehicle's negative battery cable.
- 2) Carefully detach the small plastic vacuum line that is clipped to the airbox. Do not remove it from the vehicle.
- 3) Loosen the hose clamp where the intake tube connects to the airbox.
- 4) Carefully remove the airbox as a complete assembly. (held in place by three bolts) NOTE: there is a label on the airbox that contains important information. Keep this information for future reference.
- 5) Install the two brackets on the adapter with the bolts and wave washers provided. Do not tighten at this time. (see fig. 1)

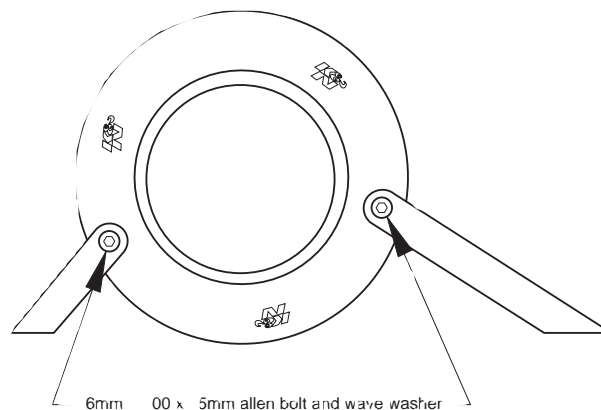
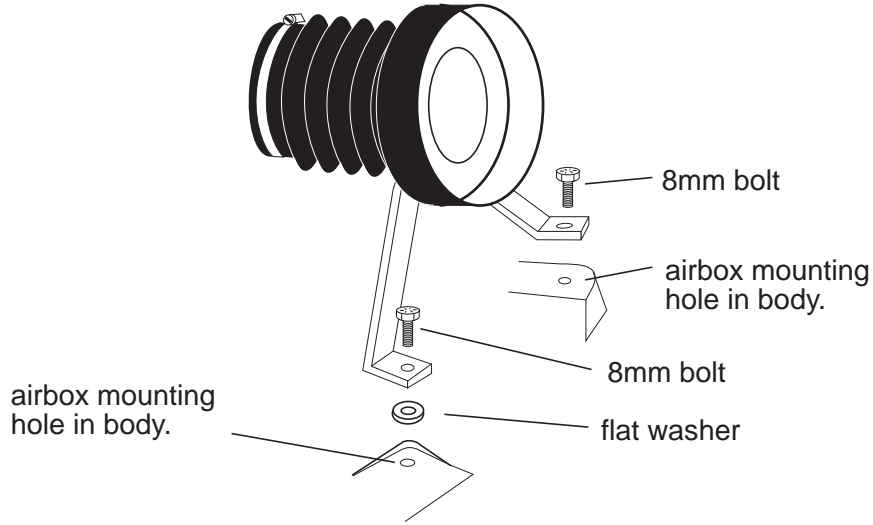


fig. 1

- 6) Install the adapter assembly into the intake hose, but do not tighten the hose clamp at this time.
- 7) Rotate the adapter so that the two brackets line up with the holes in the body. Position the supplied washer under the bracket and use the 8mm bolts to secure the brackets. (see fig. 2)



**fig. 2**

- 8) Tighten the bolts on the back of the adapter and the hose clamp on the intake hose.
- 9) Install K&N Filtercharger® onto adapter, do not over-tighten hose clamp!
- 10) With the two zip ties provided, secure the small plastic line from flopping around.
- 11) Re-connect battery cable. Double check to make sure everything is tight and properly positioned before starting vehicle.
- 12) The C.A.R.B. exemption sticker, (attached), must be placed in a visible area 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.
- 13) It will be necessary for all FIPK's to be checked periodically for realignment, clearance and tightening of all connections. Failure to follow the above instructions or proper maintenance may void warranty.

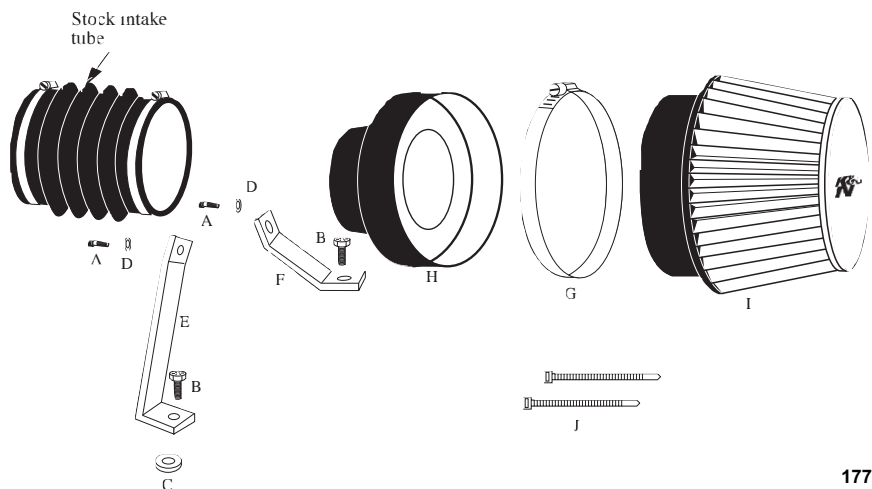
## ROAD TESTING

Start the engine with the transmission in neutral or park, and the emergency brake on. Listen for any air leaks or odd noises. If there are air leaks, make sure the hose connections are secure. If there are any odd noises, check for the cause and repair before proceeding. The K&N Filtercharger® Injection Performance Kit will function identically to the factory air filter with the exception of being slightly louder than stock and much more responsive. If all preliminary checks are okay, then a road test is necessary. Listen carefully for rattling or other odd noises and fix as necessary. If the road test is fine, you can enjoy driving as normal with the added response and power. We suggest that the Filtercharger® element be checked periodically for dirt. This is now very easy due to the open element configuration. If the filter material is overly dirty, service it according to the instructions that are in the Recharger service kit, part number 99-5050 or 99-5000. If you have any questions or problems, inquire at your nearest K&N dealer, or direct to K&N Engineering at (909) 684-9762.

**\*FREE K&N DECAL To register your warranty, please see us online at [knfilters.com/register](http://knfilters.com/register). FREE K&N DECAL\***

## PARTS LIST

A	bolt; 6mm-1.00 x 16mm allen, zn	2	07818
B	bolt; 8mm-1.25 x 16mm, hexhead	2	07844
C	washer; 1/4"idx1/2"odx1/8"thk	2	08271
D	washer; 6mm wave	2	08174
E	bracket; long, fin.	1	07892
F	bracket; short	1	07898
G	hose clamp #104	1	08697
H	adapter; #150	1	08849
I	filtercharger	1	RC-2960
J	cable ties 4"	2	21589



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