



FILTERCHARGER[®] INJECTION PERFORMANCE KIT

-INSTALLATION MANUAL-

Nissan Sentra

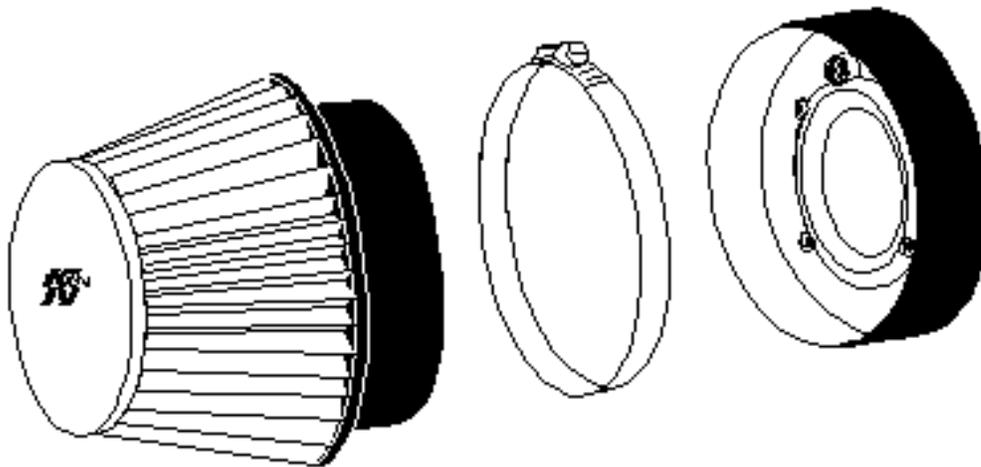
1991-1994

L4-2.0L

P/N 57-6003

CARB E.O.# D-269-9

**INTAKE SYSTEMS FOR VEHICLES LISTED ARE 50
STATE LEGAL. SEE KNFILTERS.COM FOR CARB
STATUS ON EACH PART FOR A SPECIFIC VEHICLE.**



K&N Engineering, Inc.

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K&N *Filtercharger*® Injection Performance Kit #: **57-6003**

Application: **1991-1994 Nissan Sentra L4-2.0L**

Air-flow sensing device: **Hot Wire/Mass-Air**

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.

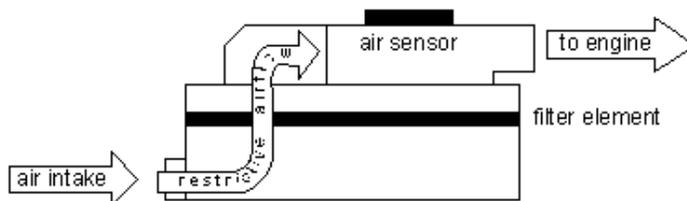
AIR CLEANER DESIGN EFFECTIVENESS

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

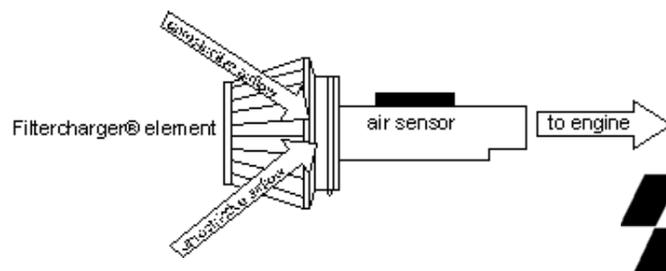
The **FIPK** is street legal for use on the emission controlled vehicles that it was originally designed to fit. These kits replace the original air filter case and do not eliminate the emission controls. The high temperature label contains the EO # assigned by C.A.R.B. that will allow a vehicle installed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

BEFORE F.I.P.K.



OEM air filter assembly

AFTER F.I.P.K.

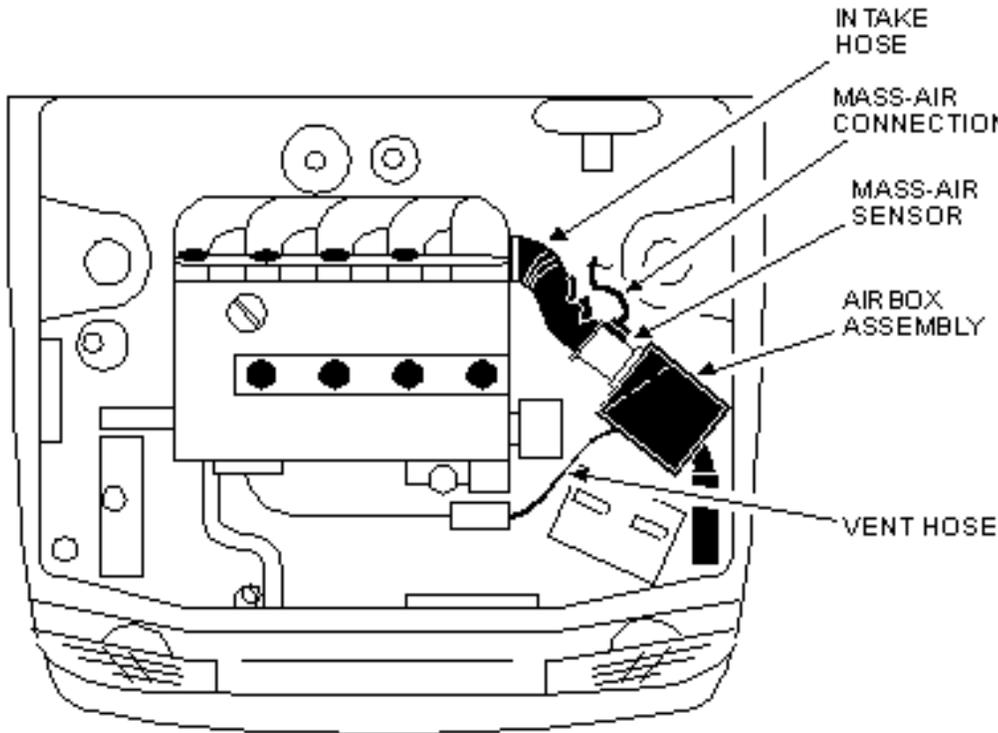


FIPK assembly

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.

Nissan Sentra engine



Refer to this diagram for the location of the various parts listed in the installation instructions.

INSTALLATION

- 1) Disconnect the vehicles negative battery cable.
- 2) Carefully remove the wire clip on the mass-air connection, then, remove the Mass-air connection.
- 3) Loosen the hose clamp at the mass-air sensor, and remove the vent hose from the airbox lid.
- 4) Unclip the airbox lid and remove it from the vehicle.
- 5) Remove the lower half of the airbox which is held in place by three bolts.
- 6) Now remove the Mass-air sensor from the airbox lid.
- 7) Assemble the Mass-air sensor, filter adapter, 90 degree vent tube and bracket as shown in fig. 1.
- 8) Install the complete assembly onto the intake hose and line up the mass-air bracket with the existing airbox hole (as shown in fig. 2) using the provided hardware.
- 9) Attach the K&N *Filtercharger* and position the assembly for best fit and clearance.
- 10) Re-connect the Mass-air, and the battery connections.
- 11) Double check to make sure everything is tight and properly positioned before starting the 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 law requires testing every two years, other states may vary.

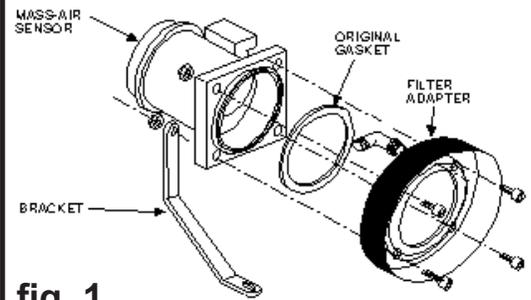


fig. 1

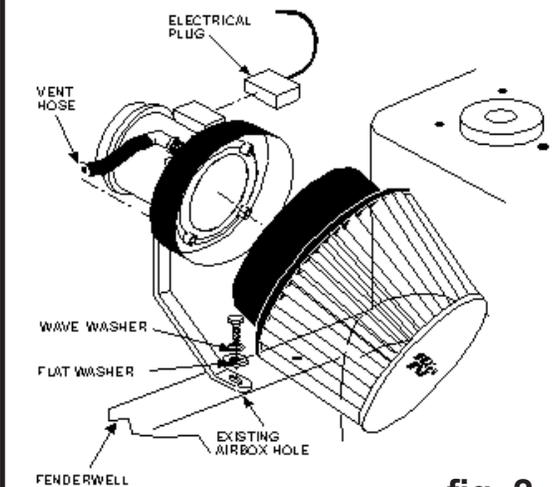


fig. 2

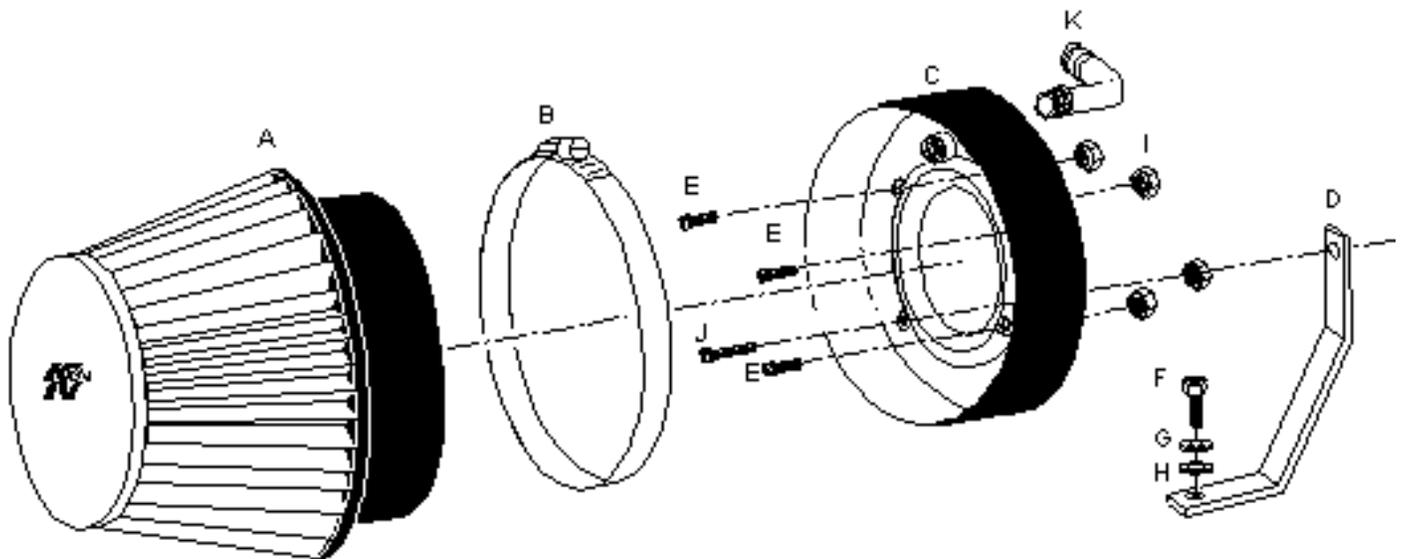
ROAD TESTING

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. FREE K&N DECAL

PARTS LIST

	description	quantity	
A	Filtercharger® element	1	RC-2960E
B	Hose clamp	1	08697
C	Aluminum Adapter	1	08845
D	Bracket	1	07103
E	6mm -1.0 x 20mm Allen bolt	3	07852
F	6mm -1.0 x 20mm Hex bolt	1	07865
G	Wave Washer	1	08174
H	Flat Washer	1	08275
I	6mm Nylock Nut	4	07553
J	6mm -1.0 x 25mm allen bolt	1	07859
k	Hose fitting	1	08045



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