FILTERCHARGER® INJECTION PERFORMANCE KIT

— INSTALLATION MANUAL —
Toyota Corolla GTS
1985-87
L4-1.6L
P/N 57-9000
CARB E.O. # D-269-8

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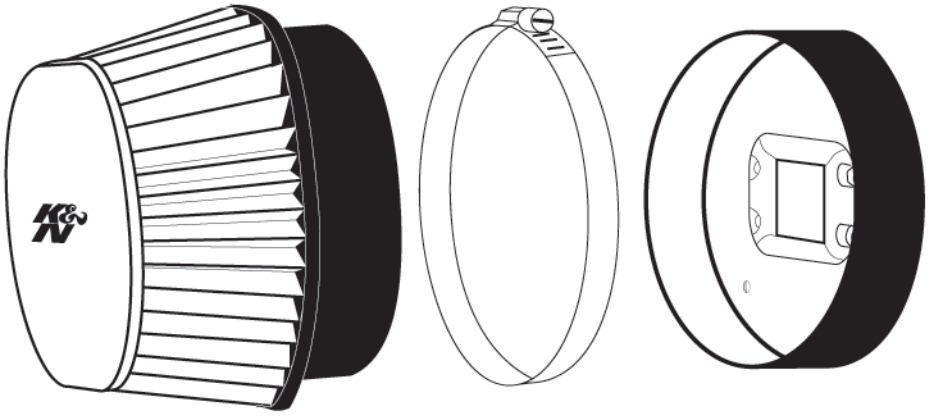

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K&N Filtercharger® Injection Performance Kit #: **57-9000**

Application: **1985-87 Toyota Corolla GTS L4-1.6L engine**

Air-flow sensing device: **Flap-door air flow meter**

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.

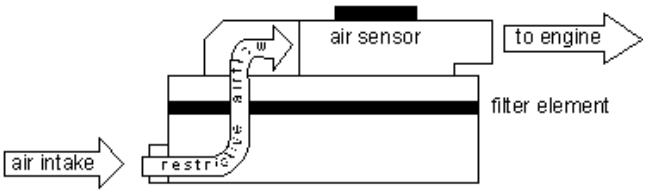
AIR CLEANER DESIGN EFFECTIVENESS

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

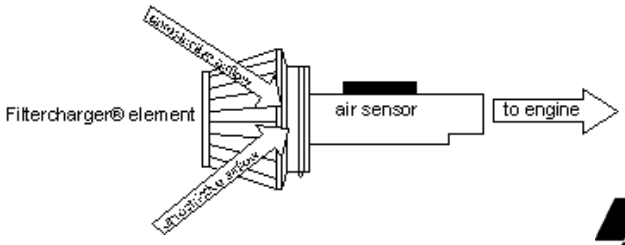
The **FIPK** is street legal for use on the emission controlled vehicles that it was originally designed to fit. These kits replace the original air filter case and do not eliminate the emission controls. The high temperature label contains the EO # assigned by C.A.R.B. that will allow a vehicle installed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



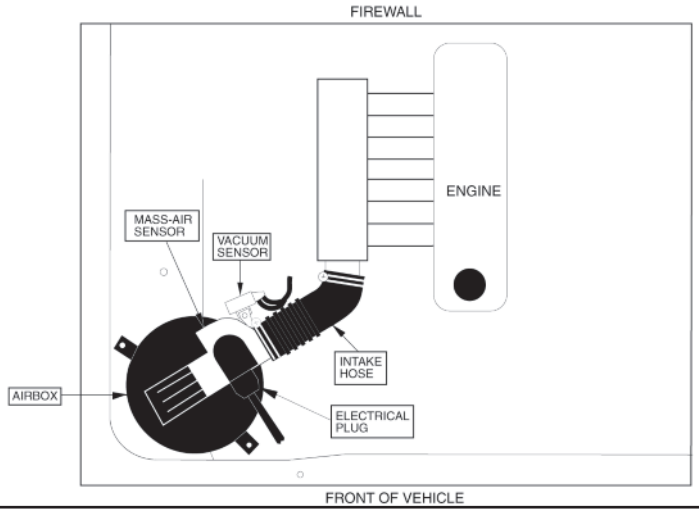
FIPK assembly

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.

TOYOTA COROLLA GTS
ENGINE COMPARTMENT

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



INSTALLATION

1) Disconnect the vehicle's negative battery cable.
2) Carefully remove the electrical plug at the mass-air sensor. (held in place by a small spring-wire clip) Move the wire out of harms way until re-assembly.
3) Loosen the intake hose where it connects to the mass-air sensor.
4) Unbolt the vacuum sensor from the bracket at the rear of the mass-air sensor. Set it aside until re-assembly.
5) Unclip the three retaining clips on the lid of the airbox, and carefully remove the airbox lid and mass-air sensor as a unit.
6) Unbolt the airbox base from the body. It is held in place with three bolts.
7) Remove the mass-air sensor from the airbox which is held by four nuts.
8) Remove the studs that held the mass-air sensor to the airbox. If you thread two nuts on to the stud, and tighten them together, you can then thread the stud out with the bottom nut.
9) Install the adapter, with the stock gasket onto the mass-air sensor, using the allen bolts provided. (see fig. 1) Use a thread locking compound and do not over-tighten the bolts.
10) Install the two brackets onto the adapter with the hardware provided. Do not tighten at this time. (see fig. 2)

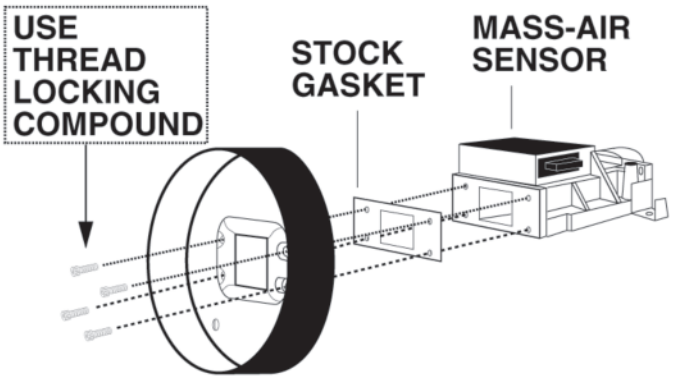


fig. 1

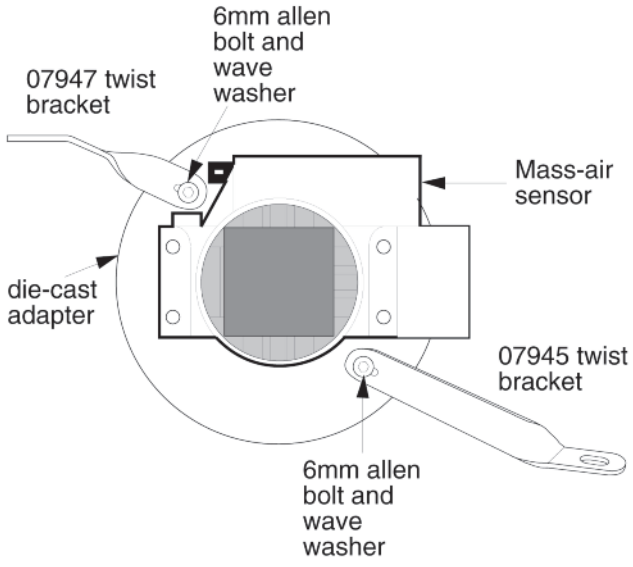


fig. 2

11) Install the mass-air / adapter assembly into the intake hose. The brackets will line up with unused holes in the body. Position assembly for best clearance and tighten all hardware and intake hose clamp. (see fig. 3)

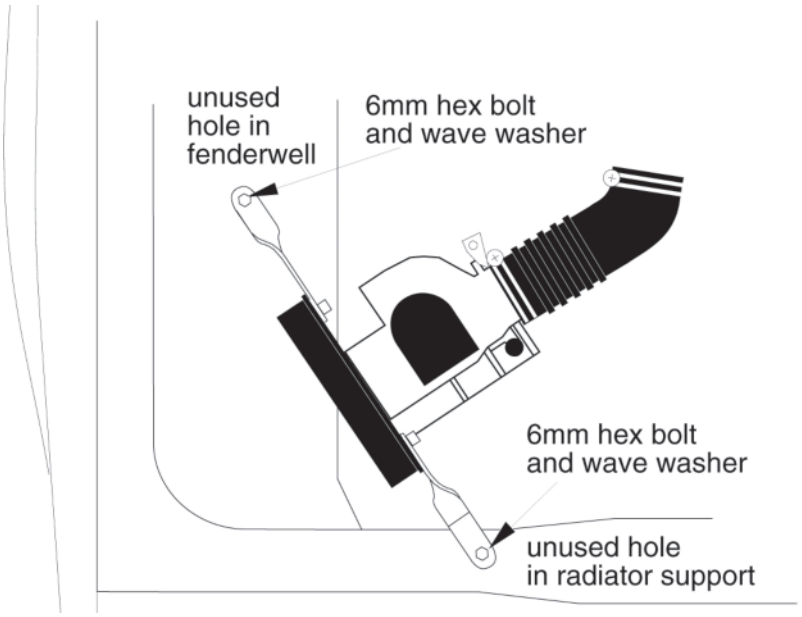


fig. 3

12) Re-connect the electrical plug to the mass-air sensor.
13) Bolt the vacuum sensor to the small angle bracket on the mass-air sensor with the stock bolt.
14) Install K&N Filtercharger® onto adapter, do not over-tighten hose clamp!
15) Re-connect battery cable. Double check to make sure everything is tight and properly positioned before starting vehicle.
16) 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.

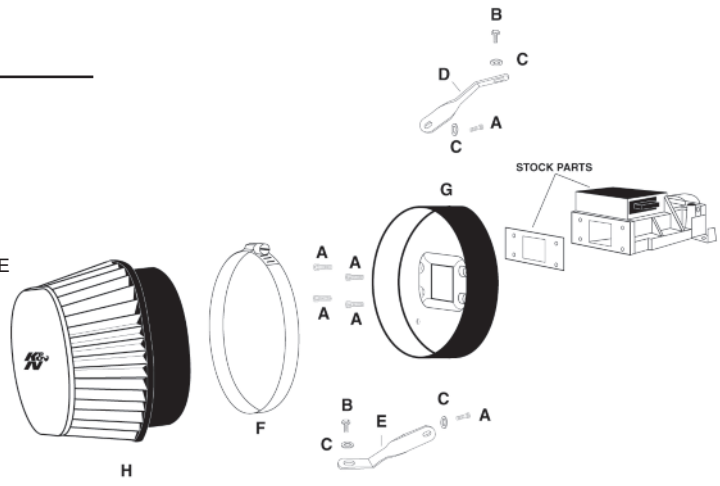
ROAD TESTING

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	part#
A	6mm-1.00 x 16mm allen bolt	6	07818
B	6mm-1.00 x 12mm hex bolt	2	07863
C	6mm wave washer	4	08174
D	short "twist" bracket	1	07947
E	long "twist" bracket	1	07947
F	size 104 hose clamp	1	08697
G	die-cast filter adapter	1	08795
H	Filtercharger® element	1	RC-3340E



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