



K&N History at a glance.....



40 years ago K&N filtration was established as a viable alternative to the paper air filter.

K&N was founded by **K**en Johnson & **N**orm McDonald.

Their objective was simple:

“Provide a better option” – A reusable filter that also increased efficiency.

They like many other competitive racers, they required a longer filter life plus better air flow – the fuel efficiency by-product was a bonus for them, later to become a very important factor environmentally!



Cotton Vs Paper



Paper or “OEM supplied” Air filters are made of pleated paper or synthetic material supplied with a Rubber surround.

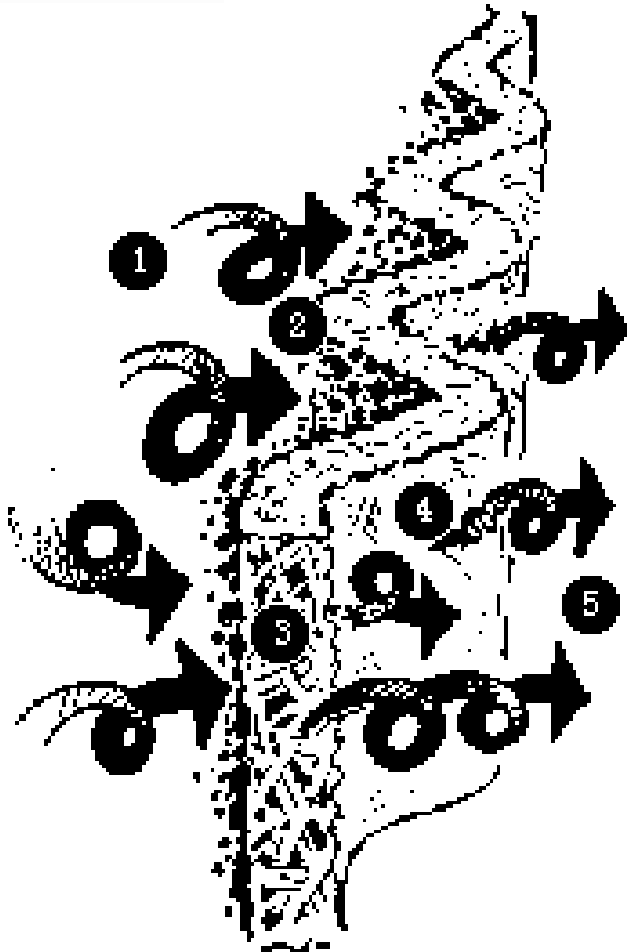
These are designed to “wear out” due to the construction and cost of the filter.

This construction provides adequate protection, but restricts air flow – thus choking the engine!

K&N Cotton “Hi Flow” filtration provides high level protection, but with the added performance and efficiency provided by unrestricted airflow through the K&N Oil impregnated Cotton filter.....



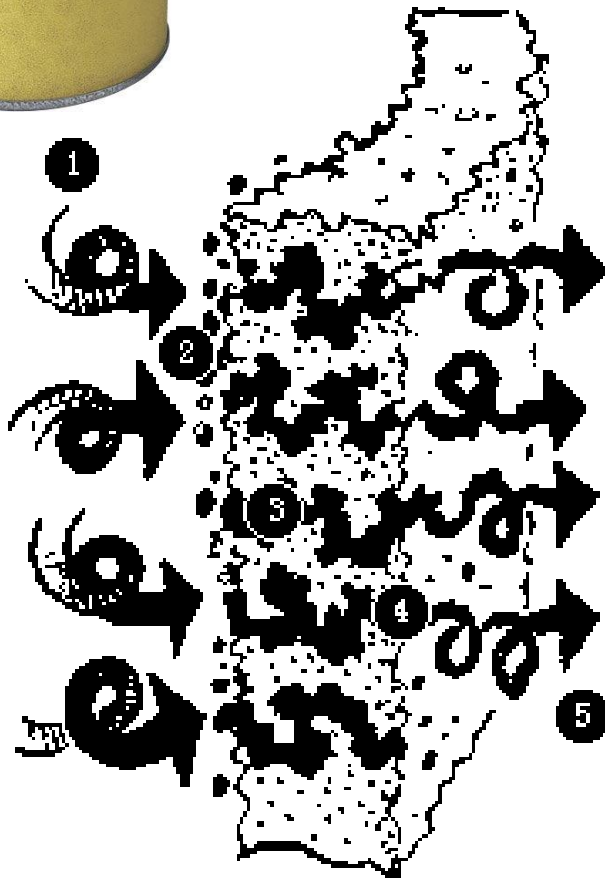
How does an oe filter work?



PAPER:

1. Pleated wood pulp bonded together.
2. As dirt builds, passages are plugged and filter must be replaced in approximately 15,000 Kms.
3. Irregular passages filter out dirt on a go/no go basis.
4. As fibers swell from moisture or oil blow-by vacuum pressure increases and airflow decreases.
5. Turbulent filtered air.

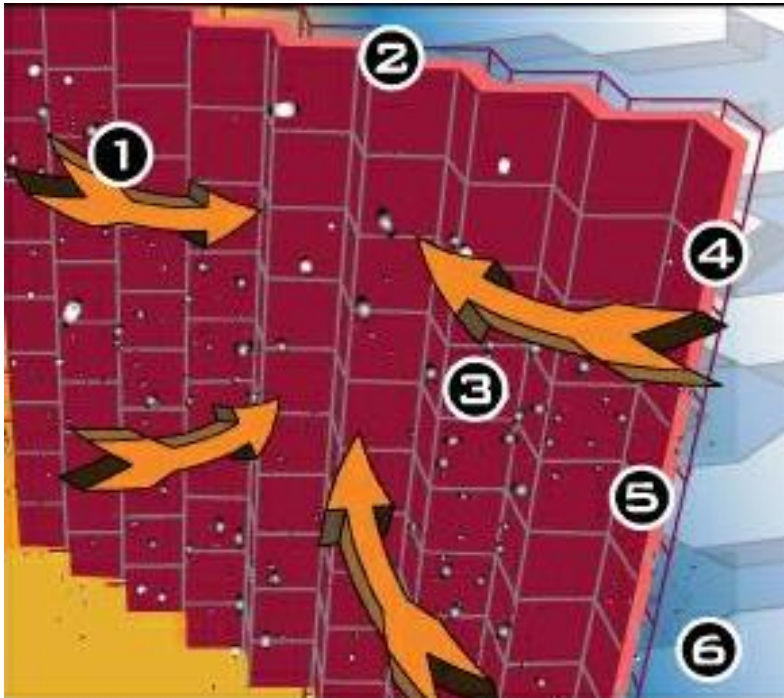
How does an oe filter work?



FOAM:

1. Lack of surface area hinders air flow and dirt holding capacity. Open cell foam usually saturated with oil.
2. Dirt builds on outside and blocks the openings.
3. Higher vacuum pressures distort the cells drawing dirt deeper into the filter.
4. Airflow is reduced as cells become blocked.
5. Turbulent filtered air.

How does a K&N filter work?



K&N Oil Impregnated Filter:

1. Turbulent air enters filter area
2. Pleated multi-layered oil impregnated surgical cotton fabric
3. Suspended dirt on the outside does not cause a significant airflow restriction (to 50,000 street km's)
4. Oil barrier attracts and holds dirt to become additional filter medium without clogging filter.
5. Bonded cotton/ wire mesh straightens airflow reducing turbulence
6. Straightened and filtered high volume air enters the intake system.

Quality and Durability



The K&N oil impregnated filters feature 4-6 Layers of specially woven cotton gauze.



This cotton gauze is framed with 2 layers of coated Aluminised wire mesh (Doubles as protective layer & Cleaning indicator).



The complete filter is then absorbed in high quality Plastisol or Injected Urethane for durability.

Before packing, the correct amount of Special oil is applied to the cotton to enhance its filtration efficiency.





THE WORLD'S BEST AIR FILTER -
GREAT FOR PERFORMANCE



More straightened air = more straight line grunt!



Independent tests show that K&N replacement air filters increase rear wheel horsepower and torque.

This is evident by some of the big names running K&N filtration in their competition cars:



RED HORSE RACING



PENSKE RACING



DAN FLETCHER RACING



WARREN JOHNSON



MERCEDES AMG



VAUGHN GITTIN Jr.



MIKE JOHNSON



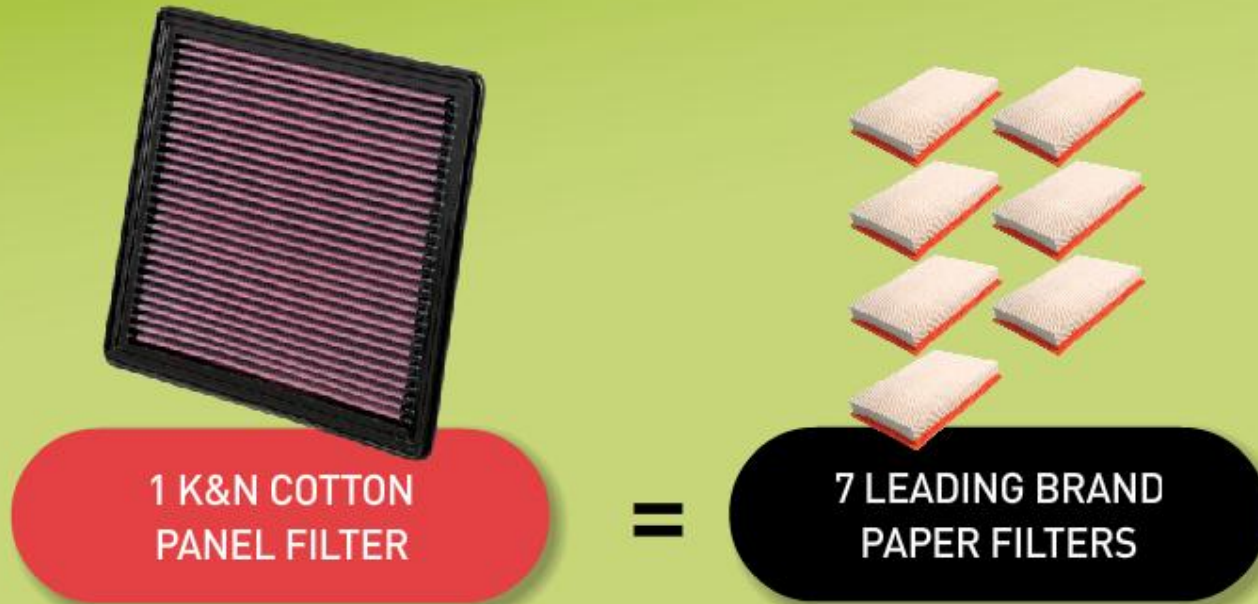
BOMB SQUAD



THE WORLD'S BEST AIR FILTER -
KIND TO THE ENVIRONMENT



REDUCING waste with k&N



One of the main benefits of using K&N reusable filters, is the reduction of waste from disposable paper/ foam filters.

K&N filters can last as long as 7 throw away filters!!!



Reducing fuel consumption



Fuel savings with K&N have multiple benefits.

Money staying in your pocket



Savings for the environment

If an engine can gain clean air easier (less vacuum due to filter restriction) then the engine will not have to work as hard or compensate by fuelling the engine. This is known as a “choked” engine.

Reducing fuel consumption

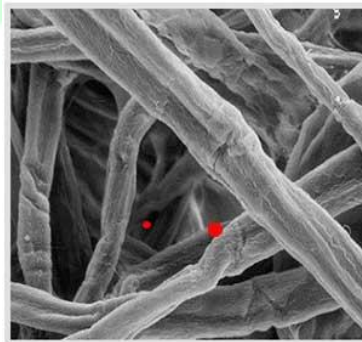
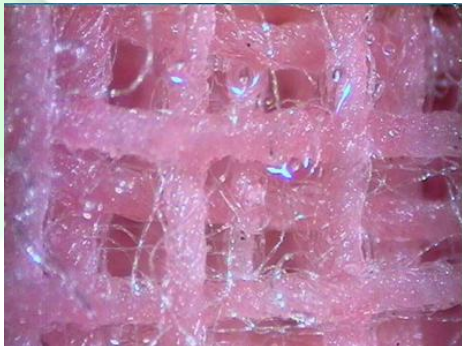


Consider how long your lawn mower fuel will last if you used the choke 100% of the time?

Does it run better and give more power when its not choked? That's the same as the K&N benefit!

The picture on the left is K&N filter media up close.
The right is standard paper media.

Both use the same dust loading techniques, but one is designed to attract silicate and other foreign objects and allow clean air transfer with minimal restriction. The other will only load when a cross section does not allow the dirt to pass. The result is a choking effect.



K&N to save money



Lets look at the actual cost of the filter over the life of the vehicle

Comparisons based on Ford BA/BF panel filters

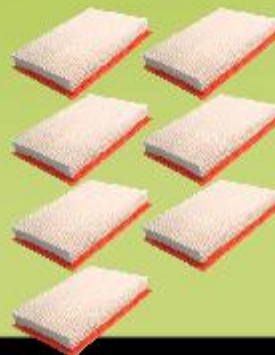
- Metro use
- Sales at Retail price (ex GST)
- (*) Average life of vehicle = 320,000Klm's.



**K&N COTTON FILTER
& RE-CHARGER**

BASED ON VEHICLE LIFE (*)

$1 \times \$116.00 + \$25.00 =$
 $\$141.00 + \text{GST} =$
TOTAL \$155.00 (inc GST)



**7 LEADING BRAND
PAPER FILTERS**

BASED ON VEHICLE LIFE (*)

$7 \times \$37.00 = \259.00
TOTAL \$259.00

V's

=

PLUS.. SAVE ON
- FUEL costs,
- ENGINE wear,
& benefit from
MORE POWER!

**CAN YOUR
CUSTOMER AFFORD
NOT TO USE
K&N?**

**CUSTOMER
SAVING
\$104.00**

(on replacement filter alone)

I wanna go fast...



Now for the “Go-fast” stuff



Most OEM intake systems are designed to minimise noise and provide “adequate” airflow with minimal cost to the manufacturer.

Look at the standard intake, flex piping, ridge webbing and 90 degree bends causing turbulence. Vibration from unsecured piping, harsh change in directions and concertina effects from the flex pipe all contribute to high restriction on air flow.

LS2 Standard Intake



Now look at the K&N system. Smooth piping, flowing bends, no ridges causing internal turbulence, there is also a heat shield from the engine bay to the filter pod. Also with the MAF sensor move (optimised) all wiring is supplied to move the unit from the OE position.

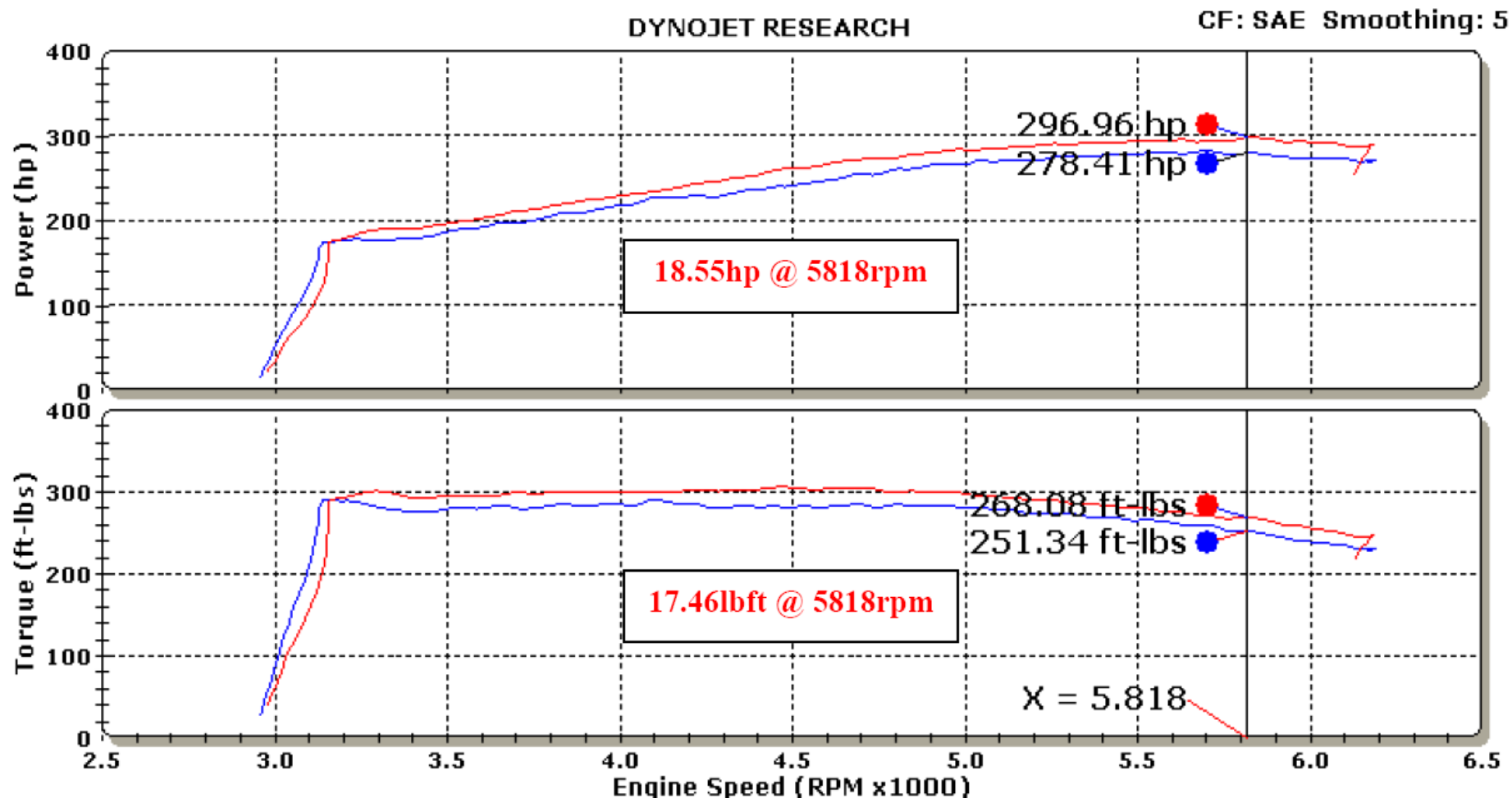
LS2 K&N upgrade kit



What is the result?



The below graphs are the LS2 with and without the K&N intake system upgrade
KN57-3044



Available options



K&N 57 SERIES EFI KITS



- ✓ Guaranteed Horsepower
- ✓ Aerodynamically engineered non-metallic rotationally molded tube for lower air temperature and less intake sound
- ✓ Engineered to specific vehicle design
- ✓ Easy to Install, usually in 90 minutes or less!
- ✓ Lasts up to 160,000 km's before service is required (depending on driving conditions)
- ✓ Available for many popular automotive applications
- ✓ [K&N Million Mile Limited Warranty®](#)

- ✓ Guaranteed Horsepower
- ✓ Designed to provide 4x4's, Trucks and SUV's more horsepower and acceleration
- ✓ Built for performance and show utilizing the highest quality components
- ✓ Engineered to specific vehicle design
- ✓ Easy to Install, usually in 90 minutes or less!
- ✓ Lasts up to 160,000 km's before service is required (depending on driving conditions)
- ✓ [K&N Million Mile Limited Warranty®](#)

K&N 77 SERIES HIGH FLOW AIR INTAKES



Available options



**Universal
Filters**



Filter Wraps



Crankcase Vent Filters



**Custom Assemblies and
Lids**



**XStream Top
Air Filters**



**Industrial & Small
Engine Air Filters**



**575 Performance
Airbox**



**Apollo Universal Cold Air
Intake Systems**



**Custom Air Cleaners for
Harley Davidson Motorcycles**



**Cleaning
Accessories**



**Washable Heavy Duty Air
Filters**



Heavy Duty Oil Filters



Carbon Fiber Composites



Marine Products

Even more Available options!!!



Flow Control Air Filter Assemblies



Injector Stack Filters



Off-Road, UMP Air Box, and VW Carburetor Air Filters



Plenums & Weber Adapter



Custom Air Cleaners for Yamaha Road Star Motorcycles



Diesel Air Intake Systems



Fuel Injection Line Air Filters



K&N Stubstacks



Universal Air Box Assemblies

Available options..... again...!



Drag Racing Scoop Air Filters and Racing Cone Air Filters



Air/Fuel Ratio Monitors



Air Filter Accessories



Fuel Filters



RV Air Intakes



Custom Air Filter Program



Kart Filters



Filter Minder®



Snowmobile Products



Lets put that
knowledge
to the test!!!

