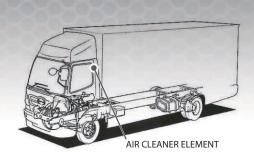


AIR CLEANER ELEMENT

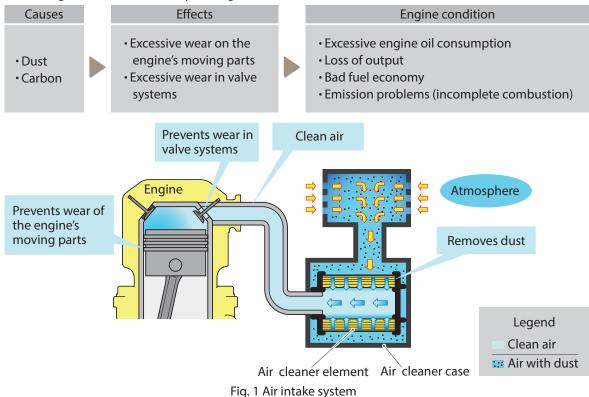




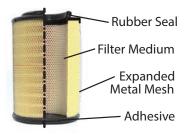
1. Function

The function of the air cleaner element is to remove dust contained in the intake air so as to supply clean air to the engine, and protect the moving parts in the engine from wear.

How foreign matter in air affects your engine



2. Construction



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Rubber Seal	This seal ensures that outside air is not sent directly into the engine.		
Filter medium	This captures dust in the air.		
Expanded metal mesh	This supports the filter medium.		
Adhesive	This holds the element and plate together.		

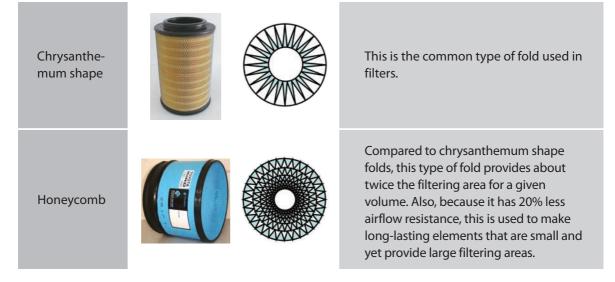
3. Types of elements

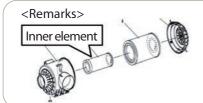
1) Types of elements

Air cleaner elements come in two types: dry and wet, depending on how they capture dust. Dry types come in two types: chrysanthemum shape and honeycomb, depending on how their filter medium is folded.

Туре	Cleaning efficiency	Filter medium	Applications (and vehicle types)	Type of filter medium fold	Mode of dust capturing
Dry	Approx. 99~ 99.9%	+	Primarily unpaved roads Dump trucks, etc.	Chrysanthe- mum shape Honeycomb	Dust is captured on the surface of the filter medium.
Wet	Approx. 95~ 99%	-	Primarily paved roads Cargo trucks, buses, etc.	Chrysanthe- mum shape	The filter medium in this element has been soaked with oil. The oil soaks into the dust caught on the surface of the filter medium to form a filtering layer. This process is repeated over and over to constantly form new filtering layers.

2) Types of filter medium folds: Chrysanthemum shape and honeycomb



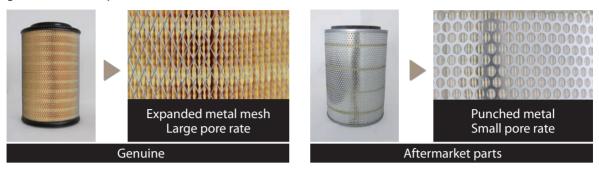


Inner element: Some air cleaner elements have an inner element. This keeps dust from entering the engine when the outer element is being cleaned or replaced. The inner element is designed solely to keep dust from entering and does not allow dust to pass through.

4. Differences between genuine and aftermarket parts

1) Performance

The filter media in genuine parts are held in place with an expanded metal mesh, providing a pore rate of 80%. This produces low airflow resistance, which in turn results in smaller loss of output, and better fuel economy. In some aftermarket parts, the filter medium is held in place with punched metal. This can reduce the pore rate of the filter medium to 40%, which in turn increases airflow resistance, resulting in greater loss of output.



2) Quality

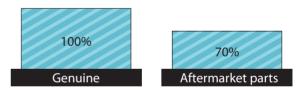
Because the ends of the filter medium in genuine parts are made of single-piece molded plastic and glued in place with adhesive, there is no concern of dust leakage.

Although the separate parts in aftermarket parts are glued together by adhesive, there can be inconsistencies in adhesion which can lead to dust leakage.



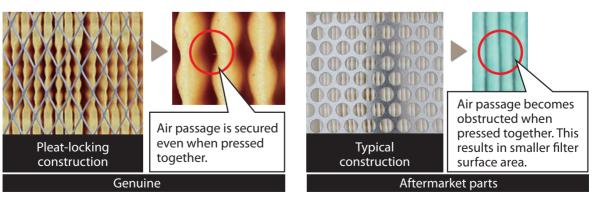
3) Life Cycle

(1) Genuine parts provide more folds and sufficient filtering areas. Some aftermarket parts have smaller filtering areas and shorter life cycles.



(2) Genuine filters feature a pleat-locking construction to properly maintain the spaces between filter medium surfaces in order to maintain its effective surface area.

Filter media in some aftermarket parts can become stuck to each other, which can obstruct airflow, reduce the effective surface area, and shorten the filter's life cycle.



The performance data of aftermarket parts shown above were obtained from a limited sampling of parts and do not represent the performance of all aftermarket parts.

5. The importance of maintenance

Continuing to use a dirty air cleaner element instead of replacing it may impair your engine's performance or fuel economy, so you must clean or replace your air cleaner periodically. In a worst case scenario, the filter medium can rupture, allowing dust to enter the engine, which can cause engine breakdowns.







Dense build-up of dust on its surface



Loss of engine power



Fuel economy drops

6. Summary and points for increasing sales

- Air filters are a critical component that keeps the intake air clean, which is essential for maintaining performance levels and protecting the engine.
- As such, air filters must be replaced on a periodic basis.
- Hino genuine air filters are parts that can be used with confidence since they provide the excellent performance and quality levels suited for Hino vehicles.



- Make sure to explain how the engine is affected by failing to replace air filters periodically and the consequent disadvantages (loss of power, bad fuel economy, etc.).
- In some cases, failing to replace air filters periodically can result in extra expenses for repairing the engine or other components.