

WIX[®]
FILTERS

***Air filters
for truck, buses and heavy duty vehicles***



WIXtreme protection

Air Filter DOs and DON'Ts

Never service air cleaners with the engine running.
Never operate the engine without an air filter.
Never judge filter condition solely by its appearance.
Avoid over-servicing the air cleaner.

Never install a dented or damaged filter.
Always clean the filter housing area before opening it.
Check that all required gaskets are present, of the correct size and in serviceable condition.

Tech Tips — Never

Service air cleaners with the engine running.
Operate the engine without an air filter.
Use oil in a dry filter housing.
Judge filter condition solely by its appearance.
Operate with a damaged element or housing.
Operate an engine that has a damaged air conduit, transfer pipe or connecting base.

Remove filters from protective packaging until you are ready to install them.
Operate the vehicle with a missing or leaking vacuator valve.
Over-service the air cleaner.
Install a dented or damaged filter.
Open an air filter housing in dirty areas.
Drop foreign objects into the filter housing.

Tech Tips — Always

Carefully inspect all new filters before installing them.
Clean the filter housing before opening it.
Clean the inner housing during a service.
Vacuum dirt from the housing.
Service elements based on restriction.
Maintain a service log that records restriction readings and the mileage or hours at which readings are taken.
Use only the correct filter size.
Use only recommended filter elements.

Inspect all gaskets and sealing surfaces for damage.
Inspect all air passages for obstructions.
Inspect air intake passages and connections for leaks.
Repair exhaust leaks near the air inlet.
Replace missing, broken and loose filter covers.
Check that **all** required gaskets are present, of the correct size, and in serviceable condition.
Check filter **length**: filters with identical diameters may have different lengths.

Did You Know?

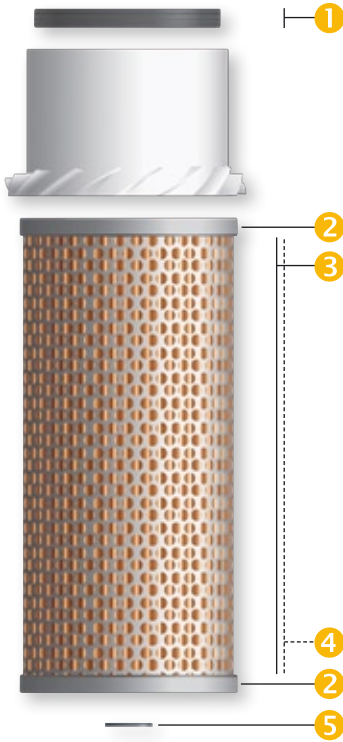
An air filter does not operate at peak efficiency when first installed. The filter doesn't reach maximum filtering efficiency until it collects a layer of dirt. A porous layer of dust across the filter media face is known as caking, and it improves filtration efficiency significantly.

It's not advised to clean an air filter by blowing it out. Removing a filter and blowing it clean with compressed air creates a cloud of dirt, much of which is deposited on the clean side of the filter. The filter seal and gasket are also much more apt to leak when the filter is reinstalled due to compression set and material fatigue.



WIX Heavy Duty Air Filter

WIX Filters has done its homework when it comes to Heavy Duty air filtration, so you can feel confident that WIX Filters will help you face any challenge you and your fleet encounter.



Pleating:

- 3 Pleating strengthens filter media and increases the filter-element filtration area. Pleat heights are a critical part of filter-element design. WIX Filters' special arch-pleat design evenly distributes airflow over more of the filter surface, while preventing pleat collapse that restricts airflow. This design feature is important because it improves filtration at high airflow rates and extends filter efficiency throughout its entire service life.

WIX Heavy Duty air filters come with corrugated filter media made with non-phenolic, resin-impregnated paper, which resists moisture and holds large amounts of dirt to extend service intervals.

End Caps:

- 2 Specially plated, corrosion-resistant metal end caps are plastisol bonded to the filter media and expanded or perforated metal to create a strong filter body that maintains its shape. The end caps on WIX Heavy Duty air filters:
- Come with welded handles for easy removal and installation on applicable applications
 - Are designed to ensure exacting torque-load distribution on the gasket seals
 - Are engineered with matching inner and outer skirt heights for structural integrity
- 5 WIX Filters' rubber-backed sealing washer ensures thread seal distribution of torque on the wing nut. This washer's design matches the geometry of the metal around the bolt-hole area of the end cap. It must be used, when provided, to properly install the filter and maintain warranty coverage.

Air Filter Gaskets:

Leaking gaskets allow intake air to bypass the filter element altogether. Certain applications call for gaskets of a different material. WIX Heavy Duty air filter gaskets:

- Are impervious to environmental conditions
 - Do not take a compression set
 - Seal by deflection – not distortion
- 1 Silicone gaskets are permanently bonded to the end cap, eliminating any possibility of bypass, and stay sealed under all temperatures and vibrations. WIX Heavy Duty air filters with foam gaskets are applied with a concentric mold and two-part epoxy to insure they are bonded to the end cap, eliminating any possibility of bypass.

Inner and Outer Metal:

- 4 WIX's design provides excellent column strength and damage resistance. Column strength is critical in maintaining a flat end cap, which ensures parallel end caps that load the filter gaskets evenly when installed in the air filter housing.

WIX's inner and outer material is corrosion resistant. The expanded, .028-inch-thick metal mesh:

- Supports the media pleats to protect them from impact damage
- Adds rigidity to the element

WIX's expanded metal mesh is cold rolled after die cutting and expansion, which leaves a flat smooth surface on both sides. This technique means no sharp edges will cut or tear the filter's pleated media.



If you think that all the Heavy Duty oil filters on the market are the same – think again!

The average engine consumes about 10,000 gallons of air for every gallon of fuel it burns, and as little as 8 ounces of dirt can destroy a Heavy Duty engine. The air filter on your vehicle plays a critical role in protecting the engine from contaminants of all sizes – from easily visible granules of dirt and sand to microscopic soot particles.

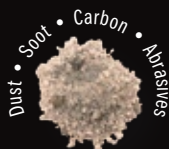


WIXtreme protection



Extreme temperatures, special fuels and lubes, tens of cubic metres of air being sucked into the engine to produce average speeds of 300kph... This is the world where Wix Filters, the only filters officially licensed in the NASCAR series has to work. Check out our offer for European and American passenger cars on www.wixeuropa.com

Did You Know?



air filtered elements

The most accurate way to determine if a filter should be replaced is by measuring its restriction flow with an airflow gauge. This assures a filter that may look dirty will not be replaced due to caking. In fact, that filter may currently be more efficient than a replacement will be, initially.

If an air filter is not installed squarely, the circular seal may not contact the seating area. This creates an air gap that allows unfiltered air to bypass the filter and enter the engine. Installing a new filter is not effective if dirty air has an alternate path around it.

Dented filter housings must be repaired or replaced. In severe cases, a blow to the housing may create an indentation deep enough to dent the filter element as well.

Commonly used filter attachments include wing nuts screwed onto a threaded rod or a shaped metal bracket. If the rod or bracket is bent, the load applied by the wing nut will not be centered properly.

For the industrial and agricultural applications please visit www.wixfilters.com



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