LUBER-FINER® UNIVERSITY

FUEL YOUR BRAIN
The operation of a heavy-duty diesel engine relies on the dependable function of many internal components. Countless variables must align in order to provide efficient performance of any engine and constant, clean airflow is an essential part of that successful operation. Luber-finer air filters deliver more than 75 years of filtration expertise. The on-highway and off-road environments can be harsh, unforgiving places. Take advantage of high-efficiency filter technology and keep contaminants from damaging diesel-engine performance with Luber-finer, the air filter that is Built To Do More™.
A typical diesel engine requires more than 8,000 gallons of clean air for every gallon of fuel it burns. Proper air-to-fuel ratios are essential for efficient internal combustion engines. Clean air is critical for engine survival and an over-extended air filter change interval can adversely affect the performance of a diesel engine.
Luber-finer air filters are constructed with specially blended, high-efficiency filter media that captures harmful particles that can damage your engine. Improve diesel-engine performance with a scheduled Luber-finer air filter change every 12,000 miles. Luber-finer air filters meet or exceed requirements for all new vehicle warranties.

Luber-finer air filters’ advanced features ensure original equipment replacement fit and function. Removing more than 99% of airborne contaminants (99.1%), Luber-finer air filters provide 25-30% more dirt-holding capacity.
Luber-finer air filters protect diesel engines and increase operating efficiency while also helping to increase fleet profitability by:

- Reducing Filter Changes
- Reducing Labor Costs
- Reducing Downtime
- Reducing Engine Damage from over-servicing
The Luber-finer MXM™ air filter features MicroGold Fiber Technology. The MXM air filter provides Maximum Filtration Area, Maximum Efficiency, and Maximum Performance to enhance the operation of a heavy-duty diesel engine.

MXM Force Air Filters offer more pleats than other heavy-duty filters. The MXM features more filtering area than standard heavy-duty air filters and the highest level of cleaning efficiency available of any Luber-finer heavy-duty air filter. The MXM Force Air Filter provides on average 50% more dirt-holding capacity than standard heavy-duty air filters.

Featuring a 99.97% cleaning efficiency, the MXM offers a filter capacity of 6,078 grams, compared to the 3,157 grams of standard Luber-finer air filters. When installing the MXM, understand that fit is critical. Luber-finer air filter models may look identical in size but can be a fraction of an inch different — a difference that can make a firm seal impossible.
An engine that can breathe easily will get maximum fuel efficiency. The Filter Minder is an air-filter gauge that indicates the highest level of restriction advisable when a heavy-duty diesel engine is under load. Maximum effectiveness and service life of a filter is determined by two factors:

- Efficiency
- Capacity

The Luber-finer Filter Minder indicates when it is time for air filter replacement. If used properly, it can help reduce labor time costs, downtime and potential engine damage.
How to Service Air Filters: The Do’s

**Remove the air element as gently as possible.**
Carefully handle the dirty element until you get it clear of the housing. Accidentally bumping it while still inside means loose dirt and dust may contaminate the clean side of your filter housing, before the new filter element has a chance to do its job.

**Always clean the inside of the housing carefully.**
Dirt left in the air cleaner housing can damage your engine. Use a clean, water-dampened cloth to wipe every surface clean. Visually inspect the surface to make sure it’s clean before putting in a new element.

**Always clean the gasket sealing surfaces of the housing.**
An improper gasket seal is one of the most common causes of engine contamination. Make sure that all dirt is completely removed, both on the bottom and top of the cleaner.

**Check for uneven dirt patterns on your old element.**
Your old element is a valuable clue to dust leakage or gasket sealing problems. A pattern on the element clean side is a sign that the old element was not firmly sealed or that a dust leak exists. Make certain the cause of that leak is identified and rectified before replacing the element.
How to Service Air Filters: The Don’ts

Don’t remove the filter element for inspection.
Such an inspection will always do more harm to your engine than good. Ridges of dirt on the gasket-sealing surface can drop on the clean filter side when the gasket is released. Stick with the schedule. If you’re on restriction maintenance, follow your reading, or get a new indicator if you don’t trust it.

Never strike or rap an element to clean it -- only to destroy it.
Rapping hard enough to knock off dust often damages the element and destroys your engine protection. Deeply embedded dirt is never released by tapping on a filter. It is always safer to keep operating until you can change to a fresh filter.

Never judge your element’s life by looking at it.
A dirty-looking element may still have plenty of life left, while a restrictive element may appear clean. Your best bet for the lowest filter maintenance costs, and the best engine performance, is to follow a restriction gauge. It’s a smart, low-cost investment.

Never leave an air cleaner open longer than necessary.
Your open air cleaner is a direct entry to your engine. If the element is not going to be changed immediately, cover the opening. The only way to ensure a filter stays free of contaminants is to be sure nothing ever gets in.
**Don’t overlook a worn or damaged gasket in the housing.**
If your cleaner has a cover gasket, replace it with a new one. Always check to be sure no piece of the old gasket is worn. If your filter model calls for a new gasket with each use, never reuse the old one.

**Don’t use a dented filter element.**
Never install a dented or punctured element because it cannot protect properly against contamination. A dent can make a firm seal impossible or can indicate damaged media.

**Never use a warped cover on a housing.**
Replace with a new cover as soon as possible. A warped or damaged cover cannot make a proper seal. Also check to make sure there is no damage to the air cleaner housing that could cause a leak.

**Never substitute an incorrect element model number.**
Elements may look almost identical but can differ by a fraction of an inch in length, a difference that makes a positive seal impossible. You’re always better off using the dirty element until you can get the correct model.
Heavy-duty air filter element manufacturers do not recommend any type of cleaning process be used on their filters and they do not warranty their filters once it has been cleaned. Used heavy-duty air filter elements, even after the most thorough cleaning, usually only have 60-80 percent of their original life.
Hotline, Full Web and Mobile Support

- Call the filter hotline at **1-800-882-0890**

- Online filter look-up capabilities on our website [www.luber-finer.com](http://www.luber-finer.com)
  - Includes installation instructions
  - Distributor locator
  - Product images
  - Service minutes and change interval recommendations

- Android App and Mobile site parts look-up capabilities