



Model Year 2017, 2018 - Fuel Filter Change (Primary And Secondary) For The EM - USA17 Emission Engines



> Internal Content

The new EM - USA17 Emission Engines Secondary Fuel Filters have a " DEEP " groove end cap with a seal to fit on the new Fuel Filter Housings. Previous filters had a " SHALLOW " groove end cap and will not fit nor seal properly on EM - USA17 Emission Engines Fuel Filter Housings. It is also possible that metal debris may be created when trying to install the incorrect filter as seen in the attached pictures [here](#). The Secondary Filter is mounted in the forward position on the Fuel Filter Housing. The Primary Filter is mounted behind the Secondary , or on the frame rail.

EM - USA17 Emission Engines require a 4 micron Secondary Filter.

Volvo

- 21764964 - Primary Filter, Long Life
- 21764966 – Primary Filter, standard
- 22474709 - Secondary Filter, Long Life
- 22253547 – Secondary Filter, standard

Mack

- 22094967 - Secondary Filter, Long Life
- 22094987 - Primary Filter, Long Life



Tags

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US2017 engines use New Primary and secondary engine fuel filters

P/N 22474709 = Volvo Secondary extended Life

P/N = 21764964 = Volvo Primary (engine mounted) extended life



US2017 engines use New Primary and secondary engine fuel filters

P/N 22094967 = Mack Secondary extended Life

P/N = 22094987 Mack Primary (engine mounted) extended life



Large capacity Filter media 4 Micron rating

Pre-US2017 Secondary engine fuel filter
P/N 21879886
DOES NOT FIT US2017 emission engines



Shallow Groove- **Does Not fit** on the
2017 fuel filter housing



Filter end cap comparison

OLD

New



Volvo 21879886
Shallow Groove-
will not fit on the
US2017 fuel filter
housing

**This filter fits US2017 and earlier
engines**

Volvo P/N 22474709

Mack P/N 22094967

Deep Groove-to fit on the 2017 engine fuel filter
housing

US2017 Fuel filter housing

Fuel Filters should be installed dry. Then use the Hand Primer to pull fuel through the filter(s). Ensuring filtered fuel is sent to the engine.

New Hand Primer



Secondary
Filter
Location

Primary
Filter
Location

After attempting to install a filter that hits the filter restrictor, we removed the filter and noticed aluminum on the filter and the housing

