

# Dual Remote Filtration System



Oil filtration is critical to engine life. Abrasive particles in dirty oil can quickly destroy critical components and ruin precision clearances in an engine if not removed through filtration.

Today's engines, however, are designed with smaller, lower capacity oil filters which are harder to get to for servicing. This means less efficient filtration and a reluctance to change filters at regular intervals, leading to a build up of dirt in the oil.



The AMSOIL Dual Remote Oil Filtration System is designed to provide superior filtration efficiency, increase oil capacity and improve oil filter accessibility.

## **Superior Filtration Efficiency**

A vehicle's regular oil filter is a full-flow filter. This means that all the oil pumped by the engine must pass quickly through the filter before it reaches the engine. This high flow demand limits the size of particles conventional filters can effectively remove.

Particle size is measured in units called microns. A good full-flow filter will effectively remove particles down to about 25 microns. But studies have shown that over 60 percent of all engine wear is caused by particles in the 5 to 20 micron range.

AMSOIL By-Pass Oil Filters remove particles less than one micron, keeping the oil free of virtually all wear-causing particles.

The dual remote system combines both full-flow and by-pass filtration on one convenient mount. With this system, all the oil is super-filtered more often.

## **Increased Oil Capacity**

The trend to downsize engines over the past several years has significantly reduced oil sump capacities. By installing the dual remote system, oil sump capacity can be increased up to 50 percent.

By adding more oil to the system, less strain is put on the oil and its additives. This dramatically increases the oil's service life.

## **Improved Accessibility**

The dual remote mount is designed to make filter changes easy and convenient. It accomplishes this by using a remote filter mount that is easily installed in an accessible area of the engine compartment. The mount is connected to the

engine block by two oil lines and a special spin-on oil filter adapter.

The cast spin-on adapter replaces the engine's full-flow filter, using thread adapters that allow the dual remote system to fit about 98 percent of all car and light truck applications in the United States. Ports in the casting provide both a source of oil and a place to return it to the engine.

## **Increased Filter Size**

Many auto manufacturers have been using smaller full-flow filters to help squeeze their engines into tighter engine compartments. But reducing filter size severely limits their service life and holding capacity.

The dual remote mount moves the oil filter away from a tight-fitting area of the engine compartment into one where more room is available. In many installations, it is very likely that a much larger full-flow filter can be used. A larger full-flow filter allows for better oil flow, increases dirt-holding capacity and provides longer service life than a smaller filter does.

<b>By-Pass Kit</b>	BMK-13 Ea
<b>Recommended Filters</b>	(1) EaBP-90, EaBP-100 or EaBP-110 and (1) EaO-15, EaO-26, EaO-34, EaO-42, EaO-57 or EaO-96 (filter type depends on clearance available)
<b>Applications</b>	Automotive and light duty trucks

<b>By-Pass Kit</b>	BMK-15 Ea
<b>Recommended Filters</b>	(1) EaBP-100 and (1) EaO-26
<b>Applications</b>	5.7L and 5.9L Cummins diesels (Model years prior to 2004)

<b>By-Pass Kit</b>	BMK-16 Ea
<b>Recommended Filters</b>	(1) EaBP-100 and (1) EaO-26
<b>Applications</b>	6.9L, 7.3L and 7.5L International diesels

<b>By-Pass Kit</b>	BMK-17 Ea
<b>Recommended Filters</b>	(1) EaBP-100 and (1) EaO-26
<b>Applications</b>	Duramax/Isuzu 6.6L diesels

### Special Fittings

Angled fittings are available from AMSOIL INC. These may make certain installations easier. Ninety degree (BK-11) and forty-five degree (BK-12) fittings can be ordered for attaching oil lines to spin-on adapter and remote mount. A petcock valve (BK-13) makes oil sampling simple.



# Installation Tips

### Thread Adapters

The dual remote filtration kit comes with four thread adapters. The thread adapter fits inside the spin-on adapter. The knurled end of the thread adapter goes in last, which locks it into the casting. The assembly then spins onto the engine. To determine which thread adapter you



need, refer to the Thread Adapter Chart in the installation instructions. If you still have questions, please call the AMSOIL Technical Services Department at (715) 392-7101.

### Extra Oil Hose

If you need more hose than the eight feet supplied with each kit, additional hosing can be ordered by the foot from AMSOIL (BP-217).

You can also buy a high-quality hydraulic hose at your local hose supplier. The hose must meet the following minimum specifications: • 1<sup>3</sup>/<sub>32</sub>" inside diameter • 300°F working temperature • 500 p.s.i. working pressure • 2000 p.s.i. burst pressure. Note: Hose and hose fittings supplied with kit are matched. Hose other than that supplied by AMSOIL may not be compatible with the hose fittings, which could result in equipment damage.

### Adapter Plate

To determine if you need the adapter plate included with the kit, compare the supplied square cut gasket to the gasket on your original full-flow filter. If the kit's gasket is the same size or larger than the original full-flow's, you do not need the adapter plate.



If the kit's gasket is smaller than the original full-flow's, use the adapter plate and adapter plate O-ring with the spin-on adapter.

Apply a small amount of grease on the O-ring and/or gasket for better sealing. The grease will also help hold them together while spinning onto the engine block's oil filter nipple.

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

