

## Bypass Oil Filtration Systems &amp; Mounts

# AMSOIL UNIVERSAL DUAL-REMOTE BYPASS SYSTEM

Product Code: BMK23-EA

*Extend engine life, reduce maintenance costs, and enjoy cleaner oil with advanced dual filtration for heavy-duty diesel and fleet vehicles.*



## Product Description

Modern engines, especially diesels, generate enormous amounts of soot and fine particulate contamination that standard full-flow oil filters simply cannot catch. Full-flow filters are designed to pass high volumes of oil quickly, which means particles smaller than about 20 microns slip right through and circulate back into the engine. Over thousands of miles, those sub-micron contaminants accumulate in bearing surfaces, cylinder walls, and turbocharger assemblies, accelerating wear in ways that are invisible until real damage is done.

### SUPERIOR SMALL-PARTICLE FILTRATION

The BMK23 system works by diverting approximately 10 percent of the oil pump's capacity through a dedicated AMSOIL Ea Bypass Filter at any given time. This partial-flow design allows the bypass element to trap extremely small, wear-causing contaminants, including soot, that full-flow filters cannot remove. Because the system cycles all of the oil in your engine through the bypass filter multiple times per hour, the engine is continuously supplied with analytically clean oil. For Ford 6.7L Powerstroke, Duramax 6.6L, and Ram Cummins 6.7L owners who tow regularly, this level of filtration addresses the heavy soot loading that shortens oil life and contributes to premature engine wear.

### EXTENDED FILTER SERVICE LIFE AND INCREASED CAPACITY

The dual-remote mount accepts both a full-flow AMSOIL EaO26 oil filter and one of three Ea Bypass Filter sizes: EaBP90, EaBP100, or EaBP110. The larger the bypass element you can fit, the greater the filtration capacity and the longer the service interval. The EaBP110 is rated for up to 80,000 miles, 1,200 hours, or 2 years, whichever comes first. The EaBP100 extends to 70,000 miles or 800 hours, while the EaBP90 covers 60,000 miles or 600 hours. Selecting the largest filter your engine compartment can accommodate gives you the most service life between changes.

### REDUCED MAINTENANCE COSTS OVER TIME

Adding bypass filtration to a diesel or high-hour gasoline engine shifts the economics of oil changes significantly. By keeping the oil analytically clean between services, the system supports extended drain intervals when paired with AMSOIL synthetic motor oil and routine oil analysis. For fleet trucks, agricultural equipment, and commercial diesel applications, fewer oil changes per year translates directly to lower parts costs, less downtime, and reduced waste oil disposal. One verified user reported running the system on a commercial mower for over 2,600 hours with zero engine problems.

### ENGINE EFFICIENCY AND LONGEVITY

Clean oil reduces friction, maintains proper hydraulic function in variable valve timing systems, and prevents sludge and varnish

buildup on critical internal surfaces. The BMK23 system adds approximately two quarts of oil capacity to the system, which also helps with oil cooling under sustained loads. For trucks towing fifth wheels, flatbeds, or running long highway grades, that additional capacity and continuous filtration provide measurable protection for turbochargers, bearings, and ring packs.

### UNIVERSAL FITMENT WITH VEHICLE-SPECIFIC ADAPTERS

The BMK23 includes the dual filter mount assembly, all mounting hardware, 12 feet of 1/2-inch ID oil hose, and JIC hose fittings. The spin-on thread adapter must be purchased separately to match your vehicle's oil filter thread size. AMSOIL provides a thread adapter compatibility table covering common filter threads including 3/4-16, 13/16-16, M22 x 1.5, 1-16, and 1 1/2-16. Specific adapters are available for 2008-present Chevrolet 1500 and 2500 gas engines (excluding 2019 and newer 5.3L), Ford Powerstroke applications, GM Duramax trucks, and many other platforms. If your full-flow filter is not listed in the BMK23 adapter table, the BMK21 single-remote bypass system may be the correct fit instead.

An optional BK13 oil sampling petcock can be installed directly on the filter mount, making it easy to pull oil samples for analysis without draining oil from the pan. This is particularly useful for anyone tracking wear metals and contamination levels to validate extended drain intervals.

### COMPATIBILITY AND INSTALLATION NOTES

The system is not compatible with the EaBP120 bypass filter. The mount is designed for the EaO26 full-flow filter paired with an EaBP90, EaBP100, or EaBP110 bypass element. All hose and fittings are matched for performance and longevity. AMSOIL does not recommend substituting third-party hose or fittings. Hoses should be routed away from exhaust components and sharp edges, with a minimum bend radius of 2-1/4 inches maintained at all corners. Mounting angle should remain between horizontal and 50 degrees below horizontal for optimal oil flow and filter drainage.

### SERVICE INTERVALS

## Technical Specifications

Bypass Filter	Mileage	Hours	Time
EaBP90	60,000 miles	600 hours	2 years
EaBP100	70,000 miles	800 hours	2 years
EaBP110	80,000 miles	1,200 hours	2 years

## Frequently Asked Questions

### Q1: What vehicles and equipment is the AMSOIL Universal Dual-Remote Bypass System (BMK23) designed for?

The AMSOIL Universal Dual-Remote Bypass System (BMK23) is designed for a wide range of applications including auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, and agriculture equipment. It is compatible with numerous AMSOIL full-flow oil filters via thread-specific spin-on adapters (sold separately), including applications for 2008-present Chevrolet 1500 and 2500 gas engines (except 2019 and newer 5.3L engines). If your AMSOIL filter is not listed in the thread adapter table, AMSOIL recommends using the BMK21 Bypass System instead.

### Q2: How does the AMSOIL Dual-Remote Bypass Filtration System protect my engine better than a standard oil filter?

The AMSOIL Dual-Remote Bypass System works in conjunction with the engine's full-flow oil filter by operating on a partial-flow basis, drawing approximately 10 percent of the oil pump's capacity at any one time. It traps extremely small, wear-causing contaminants -- including soot -- that full-flow filters cannot remove. The bypass filter typically filters all the oil in the system several times an hour, so the engine continuously receives analytically clean oil, helping increase engine efficiency and engine life while reducing maintenance costs.

### Q3: What thread adapters and components are needed to install the AMSOIL Universal Dual-Remote Bypass System BMK23?

The BMK23 system includes the mount, mounting hardware, hose, and hose fittings. However, the spin-on adapter, EaO26 full-flow oil filter, and a bypass oil filter (EaBP90, EaBP100, or EaBP110) are each sold separately. You must purchase the spin-on adapter that matches the filter thread size on your vehicle. For example, 3/4-16 thread applications use adapter BK295, M22 x 1.5 threads use BK299, 13/16-16 threads use BK302, 1-16 threads use BK300, and 1-1/2-16 threads use BK301. The 2008-present Chevrolet

1500/2500 gas engines (except 2019+ 5.3L) use adapter BK310. Note that the EaBP120 bypass filter will not work with this system.

**Q4: How does the AMSOIL Bypass Filtration System compare to just running a full-flow oil filter alone?**

A full-flow oil filter is designed to pass the engine's entire oil volume quickly, which limits it to capturing only larger contaminants. The AMSOIL Bypass System supplements the full-flow filter by slowly filtering a portion of the oil at a much finer level, removing extremely small wear-causing particles and soot that full-flow filters simply cannot catch. This dual approach means the engine constantly runs on analytically clean oil, which verified owners have noted results in impressive internal engine cleanliness even at high mileage -- one verified buyer reported a mechanic was extremely impressed by engine cleanliness at 120,000 miles.

**Q5: How often do I need to change the bypass filter in the AMSOIL Dual-Remote Bypass System BMK23?**

AMSOIL Ea Bypass Filters offer long service life with intervals varying by filter model. The EaBP90 is rated for up to 60,000 miles or 600 hours, the EaBP100 for up to 70,000 miles or 800 hours, and the EaBP110 for up to 80,000 miles or 1,200 hours. All three bypass filters have a maximum time interval of 2 years regardless of mileage or hours. These limits should not be exceeded.

**Q6: Is the AMSOIL Universal Dual-Remote Bypass System BMK23 compatible with my existing AMSOIL full-flow oil filter?**

The BMK23 is compatible with a wide range of AMSOIL full-flow oil filters including the EAO11, EAO15, EAO17, EAO24, EAO26, EAO34, EAO42, EAO52, EAO59, EAO98, EAO99, EA15K50, EA15K51, and EA15K53, each paired with a specific thread adapter. However, the EaBP120 bypass filter is not compatible with this system. If your AMSOIL filter is not listed in the BMK23 thread adapter table, AMSOIL directs you to use the BMK21 Bypass System instead to ensure proper fitment and operation.

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**Available Product Codes**

Product Code	Package Size	Unit of Measure
BMK23-EA	1 System	Each

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