

## Bypass Oil Filtration Systems &amp; Mounts

# AMSOIL FORD 6.0/6.4L SINGLE-REMOTE BYPASS SYSTEM

Product Code: BMK31-EA



## Product Description

The 6.0L and 6.4L Powerstroke engines are known for high soot loads, tight oil passage tolerances, and sensitivity to contamination. Soot and sub-micron wear particles circulate freely past conventional full-flow filters, accumulating in oil galleries and accelerating wear on bearings, injectors, and turbo components. In a platform where oil quality directly impacts reliability, the factory filtration setup leaves a measurable gap.

### REMOVES THE CONTAMINANTS YOUR FULL-FLOW FILTER MISSES

Full-flow oil filters are designed to pass high volumes of oil at low restriction. That means they can only catch particles down to a certain size before flow would be compromised. The AMSOIL Ea Bypass Filter works differently. It draws approximately 10 percent of the oil pump's capacity at any given time and targets the extremely small, wear-causing contaminants that full-flow filters cannot remove, including soot. Over the course of normal operation, it filters all the oil in the system several times per hour.

### ENGINEERED SPECIFICALLY FOR 2004-2010 FORD POWERSTROKE DIESELS

This is not a universal bypass kit adapted with generic fittings. The BMK31 system includes a custom aluminum oil filter cap (BK1101) and aluminum oil fill cap (BK1102) machined specifically for the 6.0L and 6.4L Powerstroke engine. The hose and JIC fittings are matched to provide maximum performance and longevity. The result is a clean, integrated installation that does not require drilling into the block or tapping oil galleries. Note that this system does not fit Ford E-series engine installations or applications found in larger trucks and buses.

### EXTENDED FILTER SERVICE LIFE WITH MULTIPLE ELEMENT OPTIONS

The system accepts three Ea Bypass Filter elements, each offering different service intervals depending on your operating conditions. The EaBP90 is rated for 60,000 miles or 600 hours. The EaBP100 extends that to 70,000 miles or 800 hours. The EaBP110 pushes service life to 80,000 miles or 1,200 hours. All three carry a maximum time limit of 2 years. This flexibility lets you match the filter element to your duty cycle, whether you are running short daily commutes or long-haul highway miles towing heavy loads.

### REDUCES LONG-TERM MAINTENANCE COSTS

Keeping sub-micron contaminants and soot out of your oil means less abrasive wear on critical engine components. For 6.0L Powerstroke owners in particular, where injector stiction and oil-related failures are a persistent concern, running analytically clean oil is one of the most effective preventive measures available. The cost of a bypass filtration system is a fraction of what a single injector or turbo replacement runs on these trucks.

### CLEAN OIL SAMPLING MADE SIMPLE

An optional petcock valve kit (BP67, sold separately) can be installed directly into the bypass system. This gives you an easy, uncontaminated access point for pulling oil samples without removing drain plugs or fumbling with extraction pumps. Regular oil

analysis paired with bypass filtration gives you a complete picture of engine health and lets you confidently extend drain intervals when the oil supports it.

### COMPATIBILITY AND INSTALLATION NOTES

The BMK31 system fits 2004-2010 Ford 6.0L and 6.4L Powerstroke diesel engines in pickup truck applications. It does not fit E-series vans or larger truck and bus platforms. AMSOIL recommends performing a full oil and filter change at the time of installation. The full-flow cartridge filter for the engine must be purchased separately. All hose, fittings, mounting hardware, thread sealant, and a mounting template are included. If additional hose is needed, AMSOIL part number BP251 can be ordered by the foot.

## Technical Specifications

Filter Element	Mileage Interval	Hours Interval	Time Interval
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 Ford trucks are compatible with the AMSOIL Ford 6.0/6.4L Single-Remote Bypass System BMK31?

The AMSOIL Ford 6.0/6.4L Single-Remote Bypass System (BMK31-EA) is designed for 2004-2010 Ford 6.0L and 6.4L diesel engines. It does not fit Ford E-series engine installations, nor applications found in larger trucks or buses. If you are unsure about fitment for your specific vehicle, AMSOIL recommends contacting their Technical Services team to confirm compatibility before ordering.

### Q2: How does the AMSOIL bypass filtration system for Ford 6.0/6.4L diesels protect against engine wear?

The AMSOIL Ford 6.0/6.4L Single-Remote Bypass System provides superior small-particle filtration, including soot removal, by trapping extremely small wear-causing contaminants that standard full-flow oil filters cannot remove. It draws approximately 10 percent of the oil pump's capacity at any one time and typically filters all the oil in the system several times an hour, so the engine continuously receives analytically clean oil. This helps increase engine efficiency and engine life while helping reduce maintenance costs.

### Q3: How does the AMSOIL BMK31 bypass system work with my Ford diesel's existing full-flow oil filter?

The AMSOIL Ford 6.0/6.4L Single-Remote Bypass System operates on a partial-flow basis, working in conjunction with the engine's existing full-flow oil filter rather than replacing it. It draws approximately 10 percent of the oil pump's capacity at any given time and filters out the extremely small contaminants that the full-flow filter misses. Because it cycles all the oil in the system several times per hour, your engine constantly runs on analytically clean oil, providing the best possible filtration protection against wear and oil degradation.

### Q4: How does the AMSOIL bypass oil filter for Ford 6.0/6.4L compare to using only a standard full-flow oil filter?

A standard full-flow oil filter must balance filtration efficiency with flow rate, meaning it cannot capture the smallest wear-causing particles without restricting oil flow. The AMSOIL Ford 6.0/6.4L Single-Remote Bypass System supplements the full-flow filter by operating on a partial-flow basis, trapping extremely small contaminants including soot that full-flow filters cannot remove. This results in increased filtration capacity and life, ensuring your equipment constantly runs on clean oil, which helps increase engine efficiency and life.

### Q5: How often do I need to change the bypass filter in the AMSOIL Ford 6.0/6.4L Single-Remote Bypass System?

The AMSOIL Ea Bypass Filters used in the BMK31 system offer extended service life depending on the filter element selected. 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. Regardless of mileage or hours, none of the filters should exceed a 2-year service interval. Refer to the product detail page for the specific oil filter options available for this system.

**Q6: Is the AMSOIL BMK31 bypass filtration system safe for Ford E-series vans and larger truck applications?**

No, the AMSOIL Ford 6.0/6.4L Single-Remote Bypass System (BMK31) does not fit Ford E-series engine installations, nor applications found in larger trucks or buses. It is designed specifically for 2004-2010 Ford 6.0L and 6.4L diesel engines in compatible configurations. AMSOIL recommends contacting their Technical Services team to confirm fitment before ordering if you have any questions about your specific application.

**Available Product Codes**

Product Code	Package Size	Unit of Measure
BMK31-EA	1 System	Each

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