



## Technical Service Bulletin

Date: 12/30/2005

**Product Description: Dual and Single Remote Mount Filtration Systems (BMK15/BMK11)**

**Subject: New By-Pass Filtration System Recommendation for 2004 and Newer Dodge Trucks Equipped with 5.9L Cummins Diesel Engines**

### OBJECTIVE:

To inform AMSOIL Dealers and customers that the BMK-11 replaces BMK-15 as the by-pass filtration system recommendation for 2004 and newer Dodge trucks equipped with Cummins 5.9L diesel engine.

Installation variations from installer to installer can further impact oil pressure. Excessively long hoses, tight radius bends, and using components other than those supplied by AMSOIL will all negatively impact oil pressure.

### ISSUES:

Newer models (after year 2004) Dodge Ram trucks equipped with Cummins 5.9L diesel engines have gone through numerous changes in areas of computerized engine performance and monitoring equipment. As a result, the BMK-11 system provides better performance than the BMK-15 system.

### RECOMMENDATION:

To eliminate low oil pressure warnings and reduce customer concerns, AMSOIL recommends using the single remote by-pass system, BMK-11, on 2004 and newer Dodge Ram trucks with Cummins Diesel engines. BMK-15 by-pass filtration system is still recommended for 2003 and previous model years Dodge Ram trucks with Cummins Diesel engines.

The BMK-15 system is still recommended for model years prior to 2004 for Dodge trucks with Cummins Diesel engine.

### INSTALLATION OF BMK-11 SYSTEM

The BMK-11 by-pass system can filter approximately 10% of the sump's oil volume at any one time. This product can be either installed by teeing off of the present oil pressure sending unit or by using a new 1/8" NPT -1/4" JIC fitting (BP-241) provided in each BMK-11 kit. The fitting is shown in Figure 1.

### TECHNICAL DISCUSSION:

In isolated cases when the AMSOIL BMK-15 systems have been installed on 2004 and newer models, the computers have indicated low oil pressure via warning lights or oil pressure gauges. This has created concern for AMSOIL Dealers and customers.

In actuality, the new on-board diagnostic (OBD) system is more sensitive to oil pressure fluctuations, giving warnings at earlier levels than before.

Testing done in conjunction with Dodge certified technicians has verified that engine protection is not compromised using the BMK-15 system. Testing revealed sufficient oil pressure in applications where the BMK-15 system was properly installed.

Submitted By: RH

Reviewed By: DY

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## INSTALLATION OF BMK-11 SYSTEM (continued)

Figure 1

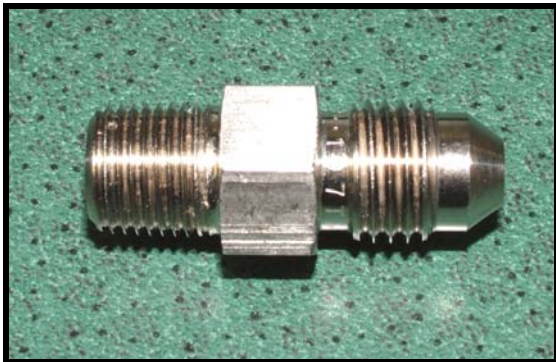


Figure 2 shows the installation location on the engine. The BP241 will replace the existing plug located on top of the oil filter mount.

Figure 2

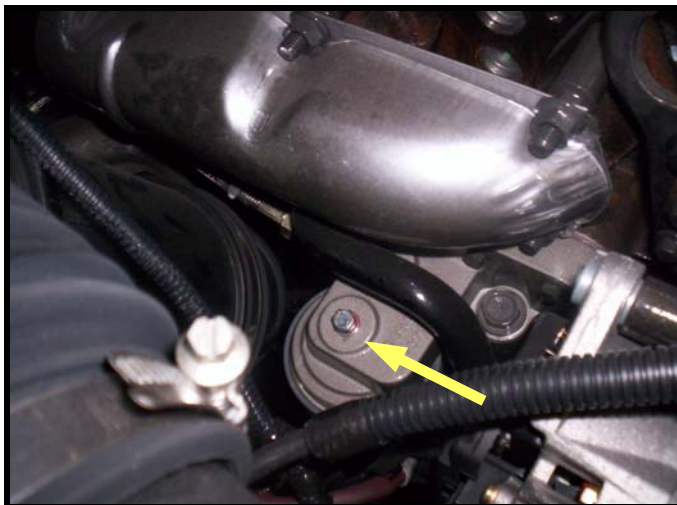


Figure 3 shows the engine filter mount with the BP241 installed with the BMK11 hose and JIC fitting.

Figure 3



Complete the installation per the instruction sheet provided with the BMK-11 kit.

To provide maximum filtration performance, AMSOIL recommends the use of the AMSOIL EaO 80 full flow filter in conjunction with the AMSOIL BMK-11 system.

### REFERENCES:

- 1) Diesel Progress, North American Edition, "Cummins Unveils 2002-ready ISB Diesel Engines", Oct, 2001.
- 2) Detroit Diesel, "The ABC's of Exhaust Gas Recirculation (EGR)", Detroit, MI, 2003

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