

## 2006 Dodge/Freightliner/Mercedes SPRINTER By-Pass Filter BMK11 Installation

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2.7 litre 5 cylinder Mercedes turbo diesel

Parts needed: BMK11 kit, EaBP90 or EaBP100 filter element, BP89 return line swivel fitting (if desired). Extras: fitting 12mm x 1.5 male x 1/4 NPF female (from local source), 1/8 x 2 inch steel strap, 3 bolts, 8 mm x 20mm w/nuts.



I found oil pressure test port on left front side of engine block next to air conditioner compressor (6mm allen wrench to remove plug). Installed fitting 12mm x 1.5 male x 1/4 NPF female w/1/8 reducer.



Pry cover off of oil filler cap. Then — 2 Options—use furnished BP40 self tapping hollow bolt or BP89 swivel fitting. Drill 7mm (17/64 inch) hole in EXACT center of oil filler cap. **Mercedes, Volkswagen, BMW all use caps by same manufacturer and I have fitted all three using the same method.**



Due to space concerns and access, I chose to mount filter under battery. In about 3 minutes the grill and headlamp assemblies can be removed, allowing plenty of room. I fashioned aluminum strap, used as a template, before bending and drilling steel filter base mount strap.

