1998-2005 Mercedes-Benz M-Class | Moderate | 30-60 minutes | $57 DIY

**TOOLS**

Floor jack or ramps and rated jack stands if needed  Oil-drain pan, funnel, gloves, and eye protection  Socket or wrench for the drain plug and oil-filter tool  Calibrated torque wrench and shop towels

**PARTS**

Engine Oil (5W-40) $45.00
Correct engine oil filter and drain-plug washer for 1998-2005 Mercedes-Benz M-Class $12.00

## STEPS

1. **Confirm oil specification and make the vehicle safe - The ML320’s M112 3.2L V6 takes 8.0L** (8.5 US quarts) of 0W-40 carrying MB-Approval 229.5. Cartridge element under a dome-shaped cap at the front of the engine. The M112 prefers the level at the dipstick’s midpoint, not the top.
2. **Warm briefly - Warm the engine 2-3 minutes, then shut off and remove the fill cap to** vent. If extracting, feed the pump tube down the dipstick tube; if draining, raise the front and remove the undertray.
3. **Drain the used oil and replace the filter - If draining, remove the plug, drain fully,** and refit with a fresh washer to the manual’s spec. Open the dome cap, swap the element, seat the new O-ring, and tighten the cap to spec.
4. **Install the correct oil quantity - Add about 7.5L of 0W-40 and hold back the last half** liter. Wait several minutes - the M112 takes a while to settle - then check the dipstick.
5. **Check level, leaks, and service reminder - Start briefly, switch off, wait five minutes,** and recheck on level ground, topping to full. Inspect the plug and cap for leaks and reset the ASSYST reminder through the cluster. Log the date, mileage, and the 229.5 oil used.

**TORQUE**

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