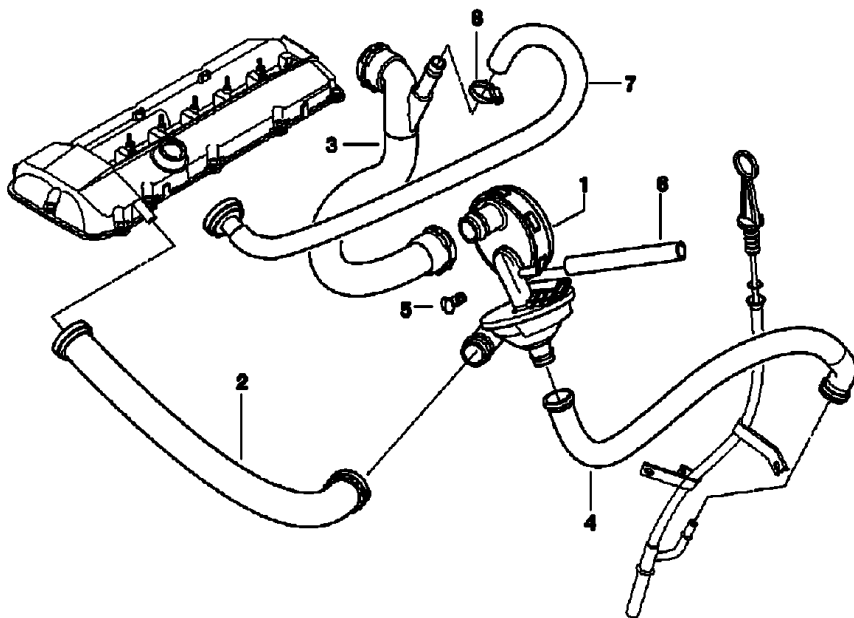


2003 BMW 325i Sedan (E46) L6-2.5L (M54)

Vehicle > Powertrain Management > Emission Control Systems > Positive Crankcase Ventilation > Oil Separator > Service and Repair

REMOVAL AND REPLACEMENT

Removal and Installation of Oil Strainer for Engine Vent



Oil separator layout

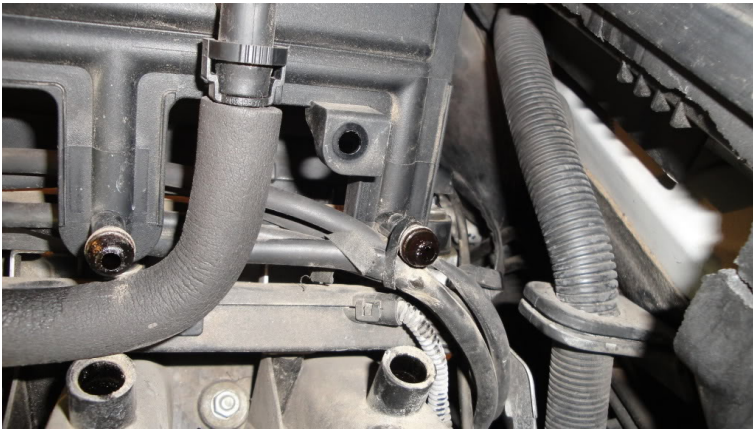




Oil Separator location on intake manifold.



Crankcase vent system hoses.



Hose routing and connections on the intake manifold.



Hose routing under the intake manifold.



Oil Separator shown with cold climate wrap.

Removal

Remove / Disconnect:

- Cable duct cover.
- Microfilter cover.
- Microfilter.
- Microfilter housing.
- Manifold cover.
- Connector from mass air flow sensor.
- Intake hose from mass air flow sensor.
- Threaded connection, intake filter housing.
- Intake air filter housing.
- Plug connector at mass air flow sensor.
- Plug connector at air shut-off valve in vacuum line.
- Suction jet pump on mounting bracket.

- Vacuum hose at suction jet pump.
- Lower intake hose at throttle valve.
- Fuel tank vent valve on support bracket.
- Plug connector at resonance valve.
- Resonance valve on manifold.
- Throttle valve on gasket.
- Plug connector at idle speed control valve.
- Screw connection, cable duct on manifold.
- Screw connection, dipstick guide tube on engine support arm.
- Oil return line at dipstick guide tube.
- Oil separator block on manifold.
- Hose at oil separator block.
- Oil return hose at oil separator.
- Engine ventilation line on cylinder head cover.
- Engine ventilation line at cyclon oil separator.
- Line at oil separator.
- Oil separator on manifold.



- Carefully disconnect crankcase vent hoses and remove the Oil Separator. Be careful to not break connecting clips.

Note: Check crankcase vent hoses and fittings for damage. Replace as nec.

Installation

- Reinstall Oil Separator in reverse order.