

Engine: All Technical Service Bulletins**Engine - Valve Cover, Engine Damage in Cold Weather**

SI B 11 08 03

Engine

December 2006
Technical Service

This Service Information bulletin supersedes S.I. B11 08 03 dated January 2006

**THIS IS A RECALL
THE COST TO REPAIR IS FREE.**

[NEW] designates changes to this revision

SUBJECT**Oil Separator - Cold Climate Conditions****MODEL**

NEW E39 5 Series, E46 3 Series, E53 X5, E60 5 Series, E83 X3, E85 Z4 with M54 Engine

SITUATION

Certain areas of the US experience extremely cold climate conditions during the winter months. A small number of vehicles in the above series listed have experienced problems ranging from leaking or broken valve covers to complete engine failure.

CAUSE

Moisture accumulating in the engine oil separator, hose to oil dipstick guide tube or the orifice in the dipstick guide tube can freeze. When this occurs, depending on the position of the internal valve, this may either cause high crankcase pressures (stuck closed) resulting in valve cover leakage/breakage or cause an oil hydro-lock condition (stuck open) which could result in engine damage.

NEW CORRECTION**E39**

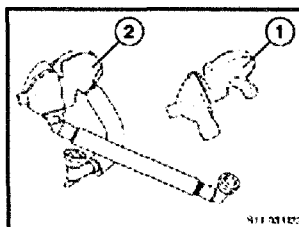
In case of a customer complaint, replace the crankcase vent valve, crankcase vent hoses and remove and clean the oil dipstick guide tube orifice.

E46, E53, E60, E83 and E85

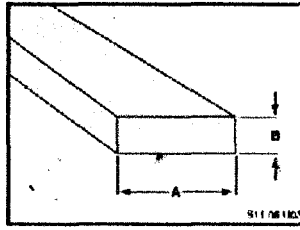
In case of a customer complaint, replace the crankcase vent valve, crankcase vent hoses and dipstick guide tube.

E39 5 SERIES ONLY:

Repair/replace all affected components. Access to the oil separator is best achieved by removal of the intake manifold. Refer to Repair Instruction 11 61 050 for details.



1. NEW Replace the oil separator and hoses (1) with the new insulated style (2).



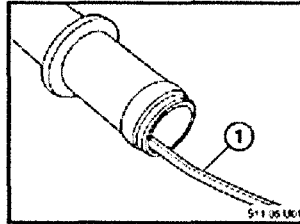
2. Obtain a thin piece of metal measuring approximately:

A. = 2.50mm

B. = 0.8mm

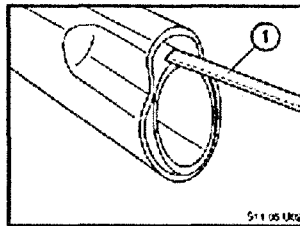
Length = 30cm

Using a wiper blade metal reinforcement will be sufficient.



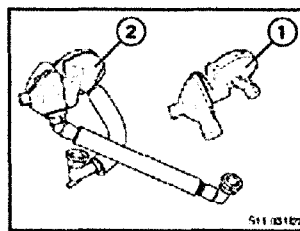
3. Remove the oil dipstick guide tube and clean the upper crankcase vent tube orifice using the metal device (1).

Note: The dipstick guide tube orifice can be restricted by a buildup of oil, water and ice. Using a brake cleaner solvent will aid in the process.



4. The lower end of the dipstick guide tube has a double wall. The outer orifice needs to be cleaned using the metal device (1) as noted above and brake cleaner solvent.

NEW E46, E53, E60, E83 AND E85 ONLY:



1. Replace the oil separator and hoses (1) with the new insulated style (2).
2. If the vehicle is already equipped with the new insulated crankcase ventilation valve and hose then only replace the dipstick guide tube with part number from list by model below.
3. If the vehicle is not equipped with the new insulated crankcase ventilation valve and hose then replace those parts with the updated style and replace the dipstick guide tube with part number from list by model below.

Part Number	Description	Quantity
11 61 7 534 237	Oil Separator Repair kit	1
11 15 7 532 629	Hose	1

E46 (3 Series) rear wheel drive only

Part Number	Description	Quantity
11 61 7 534 237	Oil Separator Repair kit	1
11 43 7 565 437	Dip Stick Guide Tube	1
11 15 7 532 629	Hose	1

E46 (3 Series) all-wheel drive only

Part Number	Description	Quantity
11 61 7 534 237	Oil Separator Repair kit	1
11 43 7 565 438	Dip Stick Guide Tube	1
11 15 7 532 629	Hose	1

E53 (X5)

Part Number	Description	Quantity
11 61 7 534 237	Oil Separator Repair kit	1
11 43 7 563 831	Dip Stick Guide Tube	1
11 15 7 532 628	Hose	1

E60 (5 Series)

Part Number	Description	Quantity
11 61 7 533 400	Oil Separator	1
11 43 7 565 440	Dip Stick Guide Tube	1
11 61 7 533 398	Hose	1
11 61 7 533 399	Hose	1

E83 (X3)

Part Number	Description	Quantity
11 61 7 533 400	Oil Separator Repair kit	1
11 43 7 565 438	Dip Stick Guide Tube	1
11 61 7 533 398	Hose	1
11 61 7 533 399	Hose	1

E85 (Z4)

11 61 7 533 400	Oil Separator	1
11 43 7 565 437	Dip Stick Guide Tube	1
11 61 7 533 398	Hose	1
11 61 7 533 399	Hose	1

NEW PARTS INFORMATION

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty.

Defect Code Refer to KSD

Labor Operation: Refer to KSD

Labor Allowance: Refer to KSD

★ ★ FIX IT RIGHT THE FIRST TIME, ON TIME, EVERY TIME ★ ★

For administrative convenience and to reduce costs, this bulletin may contain repair procedures for authorized BMW car centers and/or authorized BMW SAV centers. All references to SAVs and/or the X5 are ONLY intended for authorized BMW SAV centers. Furthermore, ONLY BMW SAV centers are authorized to perform repair and service work on SAVs.

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by: PF

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