

BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual

14 Oil seals - replacement

Crankshaft front oil seal

1 The procedure is described as part of the lower <u>timing chain</u> cover removal and installation procedure in <u>Section 6</u>.

Crankshaft rear oil seal

Note:

A new oil seal housing gasket will be required on installation.

- 2 Remove the flywheel/driveplate, (see Section 15).
- 3 Working at the bottom of the oil seal housing, unscrew the bolts securing the rear of the oil pan to the housing.
- 4 Unscrew the bolts securing the oil seal housing to the cylinder block.
- 5 If the housing is stuck to the <u>oil pan gasket</u>, run a sharp, thin blade between the housing and the oil pan gasket. Take care not to damage the oil pan gasket.
- 6 Withdraw the housing from the <u>cylinder block</u>. If the housing is stuck, tap it gently using a soft-faced mallet. Do not lever between the housing and the cylinder block, as this may damage the <u>gasket</u> surfaces.
- 7 Recover the gasket.
- 8 Thoroughly clean all traces of old <u>gasket</u> and sealant from the mating faces of the <u>oil seal</u> housing and the <u>cylinder block</u>. Again, take care not to damage the <u>oil pan</u> gasket. If the oil pan gasket has been damaged during removal, it is advisable to fit a new one with reference to <u>Section 12</u>.
- 9 Support the <u>oil seal</u> housing on blocks of wood, then drive out the seal from the rear of the housing using a hammer and drift.
- 10 Clean the seal mating surfaces in the housing.

- 11 Lightly grease the outer edge of the new <u>oil seal</u>, and carefully drive it into position in the housing, using either a large tube of the correct diameter, or a block of wood, to avoid damage to the seal.
- 12 Ensure that the locating dowels are in position in the rear of the <u>cylinder block</u>, then locate a new <u>oil seal</u> housing <u>gasket</u> over the dowels.
- 13 Lightly grease the inner lips of the <u>oil seal</u>, then carefully offer the housing to the <u>cylinder block</u>, sliding the oil seal over the <u>crankshaft</u> flange. Take care not to damage the oil seal lips.
- 14 Install the housing-to- cylinder block and the oil pan-to-housing bolts, and tighten them lightly by hand.
- 15 Tighten the housing-to- <u>cylinder block</u> bolts to the specified torque, then tighten the <u>oil pan</u>-to-housing bolts to the specified torque.
- 16 Install the flywheel/driveplate (see Section 15).

Camshaft oil seals

17 No <u>camshaft</u> oil seals are fitted. Sealing is provided by the valve cover <u>gasket</u> and the <u>timing chain</u> cover gaskets.

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