

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

9 Timing chain housing - removal and installation

Note:

A new timing chain housing gasket will be required on installation, and a new oil filter housing gasket and seal may be required.

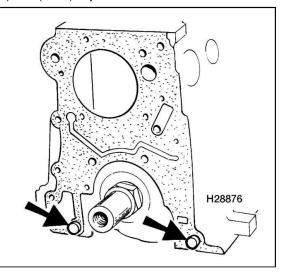
Removal

- 1 Remove the timing chain, tensioner rail and chain guides (see Section 7).
- 2 Remove the timing chain crankshaft and idler sprockets (see Section 8).
- 3 Remove the cylinder head (see Section 11).
- 4 Remove the oil pan (see Section 12).
- 5 Remove the alternator (see Chapter 5).
- 6 Disconnect the wiring from the oil pressure warning light switch.
- 7 If desired, unbolt the oil filter housing from the side of the <u>timing chain</u> housing. Be prepared for oil spillage, and recover the <u>gasket</u> and <u>O-ring</u>.
- 8 Unscrew the securing bolts, noting their locations, and withdraw the <u>timing chain</u> housing from the front of the <u>cylinder block</u>. Recover the <u>gasket</u>.

Installation

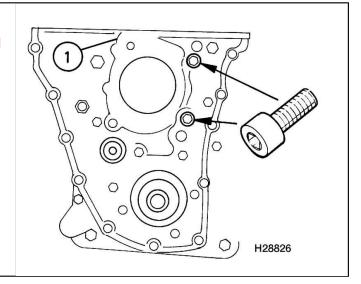
- 9 Thoroughly clean the mating faces of the timing chain housing and the cylinder block.
- 10 Ensure that the locating dowels are in place in the <u>cylinder block</u>, then lay a new <u>gasket</u> in position on the cylinder block (see illustration).

9.10 Ensure that the locating dowels (arrows) are in place in the cylinder block

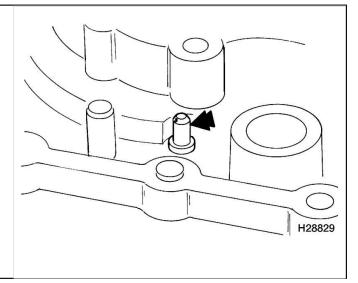


11 Install the <u>timing chain</u> housing, and tighten the securing bolts to the specified torque. Ensure that the sockethead bolts are fitted to their correct locations, and note that the upper right-hand bolt hole is not used. Also ensure that the chain oil spray jet faces the idler sprocket location (see illustrations).

9.11a Ensure that the socket-head bolts are installed in their correct locations, and note the upper right-hand bolt hole (1) is not used



9.11b Ensure that the oil spray jet (arrow) faces the idler sprocket location



12 Where applicable, install the oil filter housing using a new gasket and a new O-ring. Lubricate the O-ring with a little grease before fitting, and tighten the securing bolts.

- 13 Reconnect the oil pressure warning light switch wiring.
- 14 Install the alternator (see Chapter 5).
- 15 Install the oil pan (see Section 12).
- 16 Install the cylinder head (see Section 11).
- 17 Install the timing chain crankshaft and idler sprockets (see Section 8).
- 18 Install the chain guides, tensioner rail and timing chain (see Section 7).

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