



Haynes
shows you how

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.

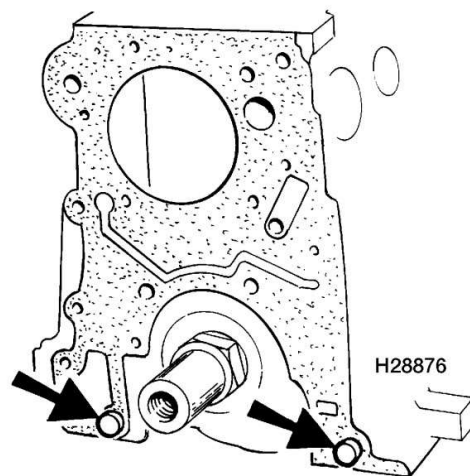
Removal

- 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 timing chain housing. Be prepared for oil spillage, and recover the gasket and O-ring.
- 8 Unscrew the securing bolts, noting their locations, and withdraw the timing chain housing from the front of the cylinder block. Recover the gasket.

Installation

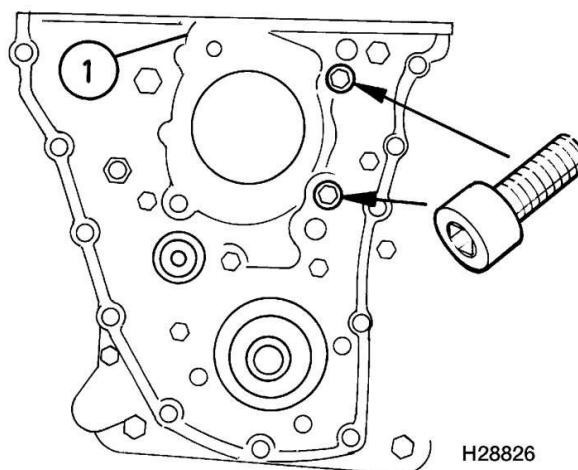
- 9 Thoroughly clean the mating faces of the timing chain housing and the cylinder block.
- 10 Ensure that the locating dowels are in place in the cylinder block, then lay a new gasket in position on the cylinder block (see illustration) .

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

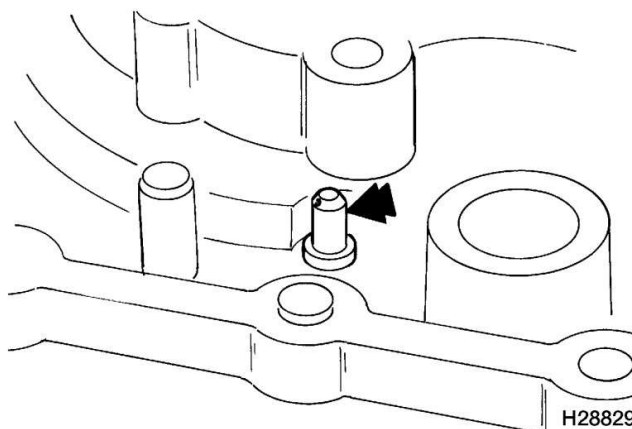


11 Install the timing chain housing, and tighten the securing bolts to the specified torque. Ensure that the socket-head bolts are fitted to their correct locations, and note that the upper right-hand bolt hole is not used. Also ensure that the chain oil spray jet faces the idler sprocket location (see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