



**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.

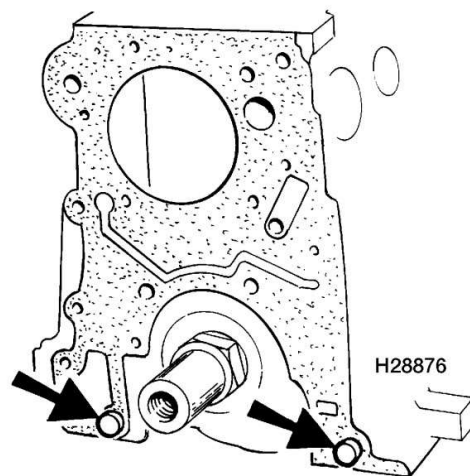
### Removal

- 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

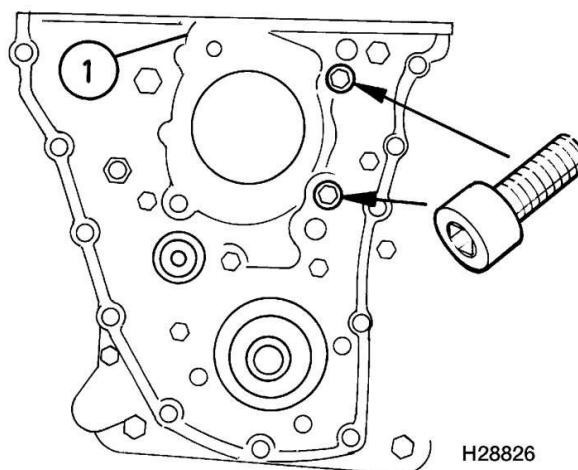
- 9 Thoroughly clean the mating faces of the timing chain housing and the cylinder block.
- 10 Ensure that the locating dowels are in place in the cylinder block, then lay a new gasket in position on the cylinder block (see illustration) .

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

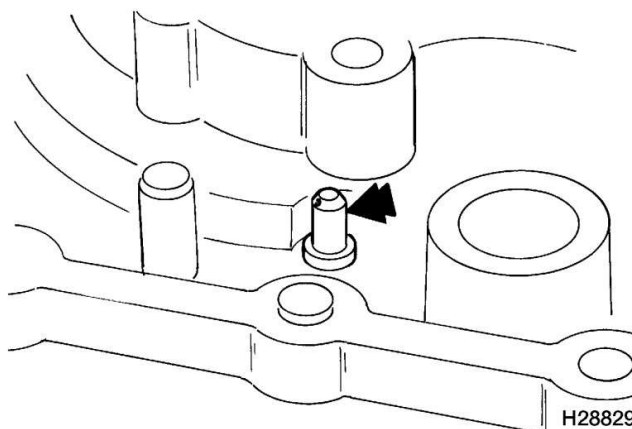


11 Install the timing chain housing, and tighten the securing bolts to the specified torque. Ensure that the socket-head bolts are fitted to their correct locations, and note that the upper right-hand bolt hole is not used. Also ensure that the chain oil spray jet faces the idler sprocket location (see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