Tightening torques		Nm
Screw to crankshaft		270–330
Screws of pulley to hub		30
Special tools		
Detent (starter removed)	Tanta and a second	116 589 01 40 00
Torque wrench 3/4" square, 150—500 Nm	11302-6206	001 589 31 21 00
Socket 1/2" square, 27 mm	11004-6193	001 589 65 09 00
Allen wrench 6 mm, 440 mm long	1504 2°47	116 589 03 07 00
Inserted bushing for radial sealing ring	11004.6222	110 589 07 61 00
Knocking-in tool for oil dipstick guide tube		117 589 00 31 00
Conventional tool		
Connection 3/4" square socket to 1/2" square head		.g. made by Hazet, D-5630 Remscheid rder No. 1058 RI

Note

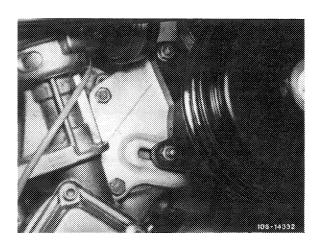
Timing housing covers differ by the number on casting and by their height.

The timing housing cover can be removed with cylinder heads mounted.

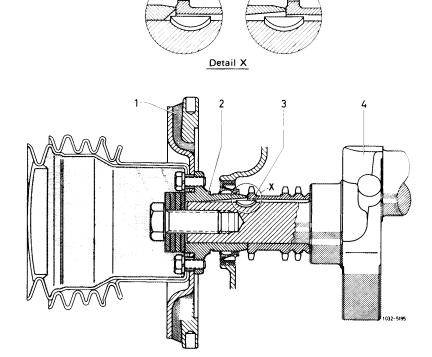
Removal

- 1 Disconnect grounding line on battery.
- 2 Drain engine oil and coolant.
- ${\bf 3}$ $\,$ Remove radiator and fan (without viscofan coupling).

- 4 Remove alternator with mounting bracket and ignition distributor.
- 5 Remove air compressor, refrigerant compressor and vacuum pump (USA).
- R 03-5953
- 6 Remove power steering pump at connected lines and put aside.
- 7 Unscrew mounting bracket of power steering pump.



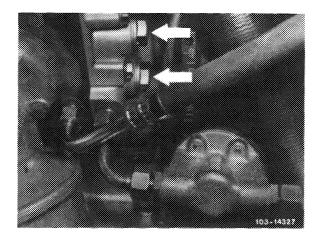
8 Remove pulley together with vibration damper and hub (03-340).



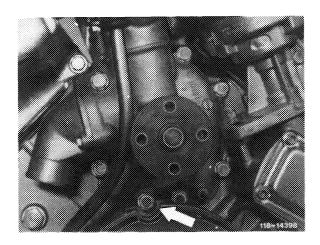
9 Remove oil damper with holder.

Do not unscrew closing plugs (arrows).

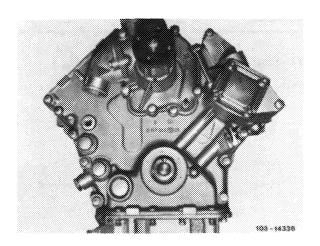
On engines with oil suction, remove oil dip stick guide tube.



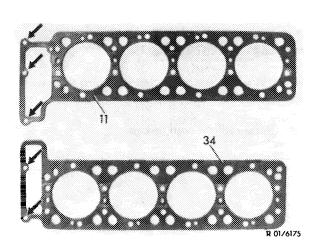
10 Remove coolant pump with housing (20-210).



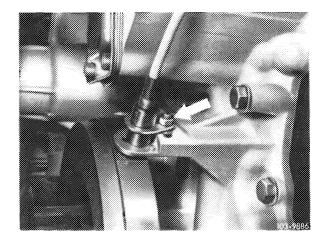
11 Remove oil pump (18–210). Loosen oil pan upper half on two-piece oil pan on crankcase, that is, loosen screws for approx. 3–4 turns.



12 Unscrew cylinder head bolts M 8 (arrows).



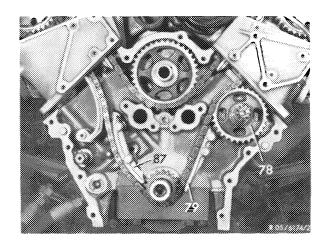
- 13 Disconnect TDC transmitter and pull out.
- 14 Unscrew all screws for timing housing cover.



- 15 Push out radial sealing ring for crankshaft.
- 16 Remove timing housing cover while disconnecting oil pump chain on crankshaft sprocket.

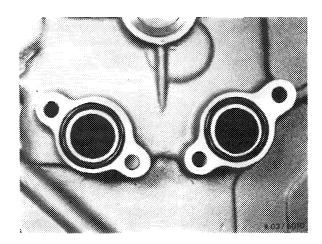
Attention!

Do not damage cylinder head gasket. Renew damaged cylinder head gaskets.



Installation

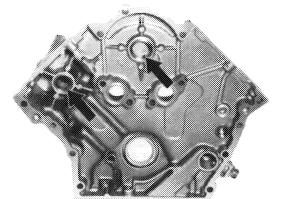
17 Renew O-rings for sealing coolant ducts.



Attention!

If the bearing bushings are renewed, pay attention to position of bottom oil groove (arrows).

- 18 Coat sealing surface of timing housing cover with sealing compound.
- 19 Grease cylinder head gaskets.



103-9559

- 20 When mounting timing housing cover, place oil pump chain with a curved panel on crankshaft sprocket.
- 21 Screw-on cylinder head bolts M 8 first.
- 22 For further installation proceed vice versa.

Timing housing cover
Threaded bolts for adjusting lever of ignition distributor 3 4 5 6 7 8 9 10 Holder for engine shock absorber Screw M 8 x 45 (10 each) Washer A 8.4 Bearing bushing guide wheel Closing plug Sealing ring
Closing plug M 26 x 1.5
Sealing ring End cover Gasket Combination screw 6 x 15 13 4 Screw connection
5 Sealing ring
6 Closing plug M 26 x 1.5
7 Sealing ring
8 Bearing bushing for intermediate 12 24 sprocket shaft Screw M 8 x 105 19 Screw M 6 x 2
20 Washer
21 Screw M 8 x 2
22 Washer
23 Radial sealing
24 Spring washer
25 Bearing bolt 1033-7931 Screw M 8 x 25 Radial sealing ring

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