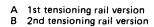
Tightening torques		Nm
Nuts for cylinder head cover		15
Necked-down screw for camshaft sprocket		80
Special tools		
Impact puller for bearing bolt (basic unit)	11061-4220	116 589 20 33 00
Threaded bolt M 8, 150 mm long for impact puller	1004 - 8217	616 589 00 34 00
Puller for bearing bolt	11004 - 6219	115 589 20 33 00
Threaded bolt M 8 x 60 for puller	3m2m2 11004-6221	123 589 00 34 00
Socket 27 mm, 1/2" square, for rotating engine	1004.8193	001 589 65 09 00

Note

There are two tensioning rail versions for these engines. The second tensioning rail version (B) can also be installed in engines with first tensioning rail version (A).

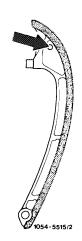




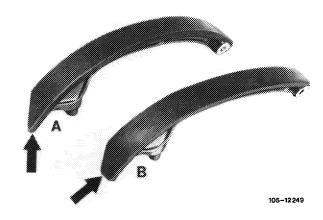


To avoid mixing up with tensioning rail of diesel engines, the respective tensioning rails were designed with special characteristics.

The tensioning rail of diesel engines runs to a point at upper end and has an 8 mm bore at that end (arrow).

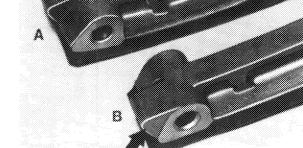


The tensioning rail of the engines described here are wider at their upper end and there is no bore at that end.



- A Tensioning rail diesel engines
 B Tensioning rail gasoline engines
- By now, the upper end of the tensioning rails have been provided with a cast lug which prevents any confusion.

The lug is located on tensioning rail of diesel engines in direction of cylinder 1 and on tensioning rail of the engines described here in direction of balancing disc.



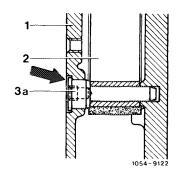
105-14500

A Tensioning rail diesel engines B Tensioning rail gasoline engines

For reasons of standardization, the same bearing bolt is installed on the tensioning rail as on diesel engines 615, 616 and 617, part No. 615 052 04 17 as from the end of 1979.

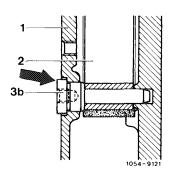
Former version

- 1 Cylinder crankcase2 Tensioning rail3a Bearing bolt



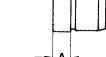
Changed version

- Cylinder crankcase Tensioning rail
- 3b Bearing bolt



1054-9123

This bearing bolt is provided with a collar 5.2 mm high (formerly 2.4 mm - dimension "A") and therefore is projecting on the cylinder crankcase (formerly flush).



Former version "A" = 2.4 mm Changed version "A" = 5.2 mm

When removing and installing tensioning rail, and in the presence of oil leaks on bearing bolt, therefore, take account of collar height prior to trying to knockin bearing bolt flush (may result in damage to cylinder crankcase).

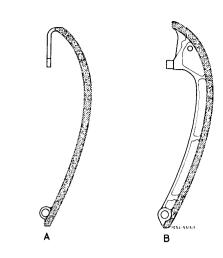
The bearing bolt with higher collar may be installed instead of the former version. Only the changed version will be supplied from now on.

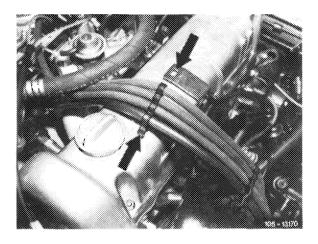
Removal

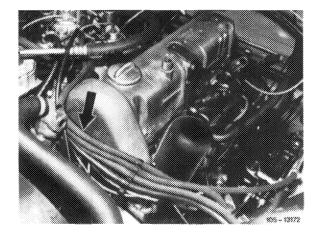
- 1 Remove radiator and fan.
- 2 On engines 115.923/926/951 with tensioning rail version (A), remove chain tensioner (05–310).

On engines with light alloy tensioning rail (B), push back thrust bolt of chain tensioner.

3 Remove cylinder head cover. For this purpose, for (AUS), (3), (5) and (USA) starting 1977, push out clamp assembly of fuel hoses on holder and pull out fuel hoses with clamp assembly in forward direction over cylinder head cover.

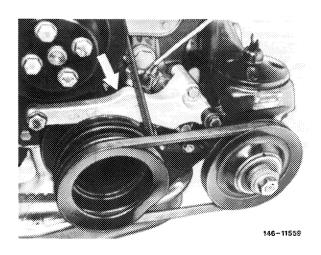






4 On vehicles model 123 with power steering, remove aluminum carrier of power steering pump (arrow).

Note: Not applicable for (AUS), (J), (S) and (USA) starting 1977.



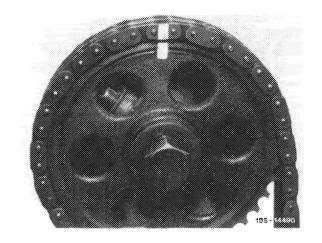
5 Rotate crankshaft with tool combination until recess in balancing disc is in front of bearing bolt of tensioning rail (Fig. item 8).



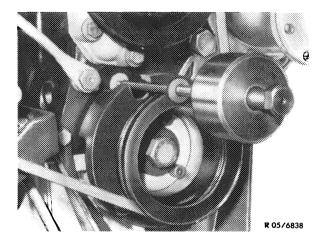
R 100/6498

- 6 Mark camshaft sprocket and timing chain in relation to each other.
- 7 Remove camshaft sprocket.

To loosen necked-down screw, apply counterhold to camshaft sprocket with a screw driver or steel pin, loosen holder for fuel lines and swivel sideways.



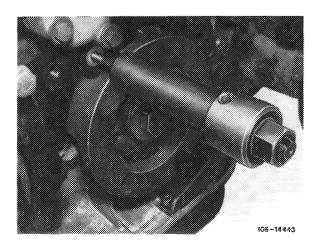
8 Knock out bearing bolt with impact puller. Unscrew pulley, if required.



Attention!

If the bearing bolt is seated so tightly that it cannot be knocked out with impact puller, use puller part No. 115 589 20 33 00. Unscrew pulley first.

- 9 Remove tensioning rail.
- 10 Renew badly worn tensioning rails and bearing bolts.



Installation

- 11 Coat bearing bolt on collar with sealing compound.
- 12 Position tensioning rail and knock-in bearing bolt by means of impact puller.
- 13 Place camshaft sprocket with timing chain on camshaft while paying attention to color code markings.
- 14 Position necked-down screw for fastening camshaft sprocket and tighten to 80 Nm. For this purpose, apply counterhold to camshaft sprocket with screw driver or steel pin.
- 15 For further installation proceed vice versa to removal.