

mounting instructions adjustable camshaft gear for 8V 111 cylinder heads.



Please notice that this adjustable camshaft gear is only interchangeable with following OEM numbers:

- **030 109 111**
- **030 109 111 B**
- **030 109 111 J**
- **030 109 111 G**

It is used by the following manufacturers: **Audi / Seat / Skoda / Volkswagen**

It is also necessary to notice the mounting instructions for your car and camshaft manufacturer to prevent any engine damage.

This camshaft gear can be used for the following engine codes under knowledge of the following page:

Engine codes:	Engine codes:
HZ	NZ
2G	3F
AAU	PY (G40)
AAV	ACM
AEX	AEE
ABD	ABU
AER	ALL
AEV	ADX
ANX	APQ
AKV	AEA
AHS	

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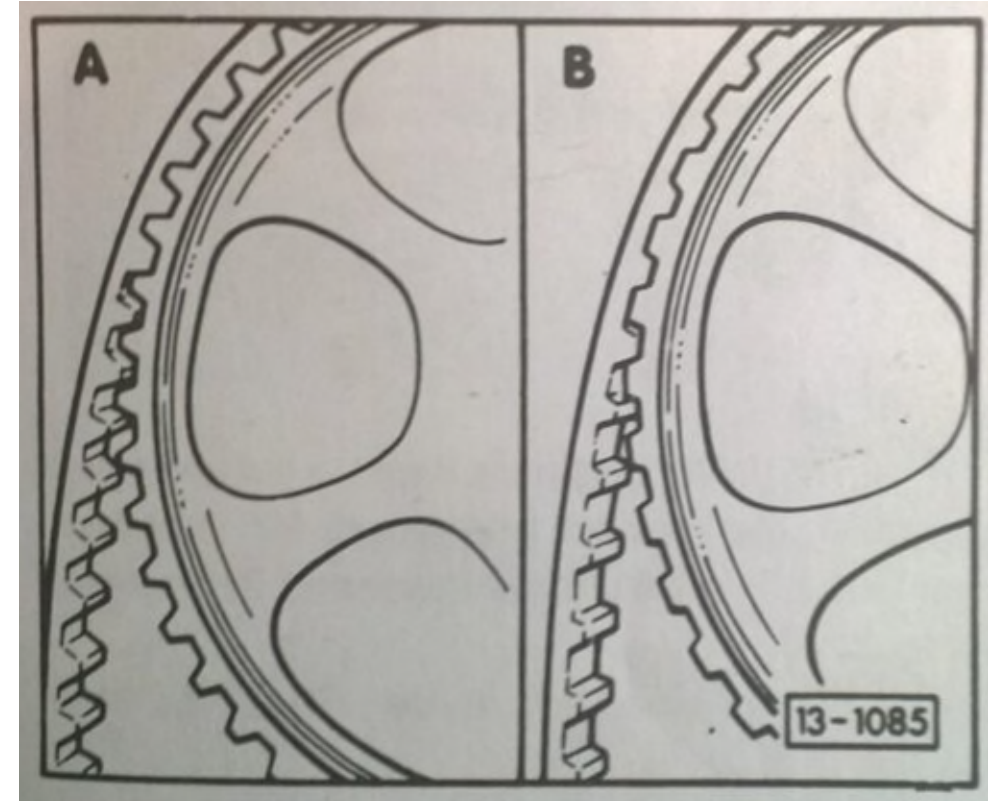


PP-016 fits to Super-Torque timing belts with 128 teeth (Picture **A**).

If PP-016 should be used for older engines with timing belts with lower tooth design (Picture **B**), the following parts must be swapped.

Listing of the OEM numbers which must be used for a tooth design swap:

- Timing belt sprocket for crankshaft with 26 Teeth: **030 105 263 C**
- Waterpump: **030 121 005 LX**
- Timing belt with 128 teeth: **030 109 119 A**
- Center screw crankshaft M14 x 1,5 x 47 mm: **N 902 928 02**



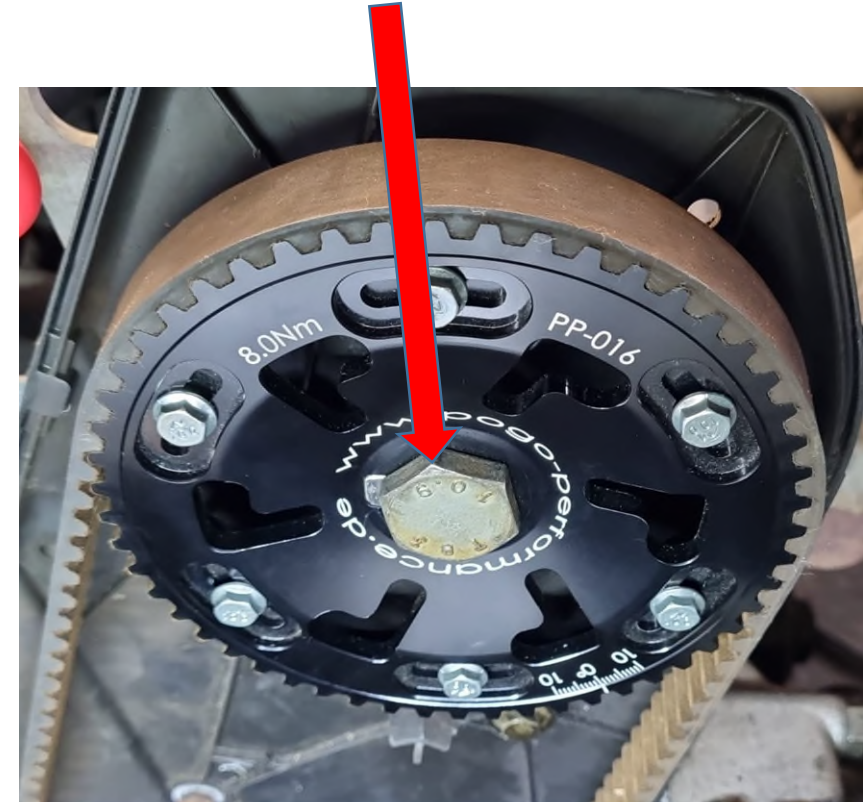
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torque: 8,0 Nm / tighten crosswise

For massively modified valvetrains with high forces, we recommend to increase the torque up to about 14,0 Nm.

torque: 80 Nm / please notice divergent OEM instructions



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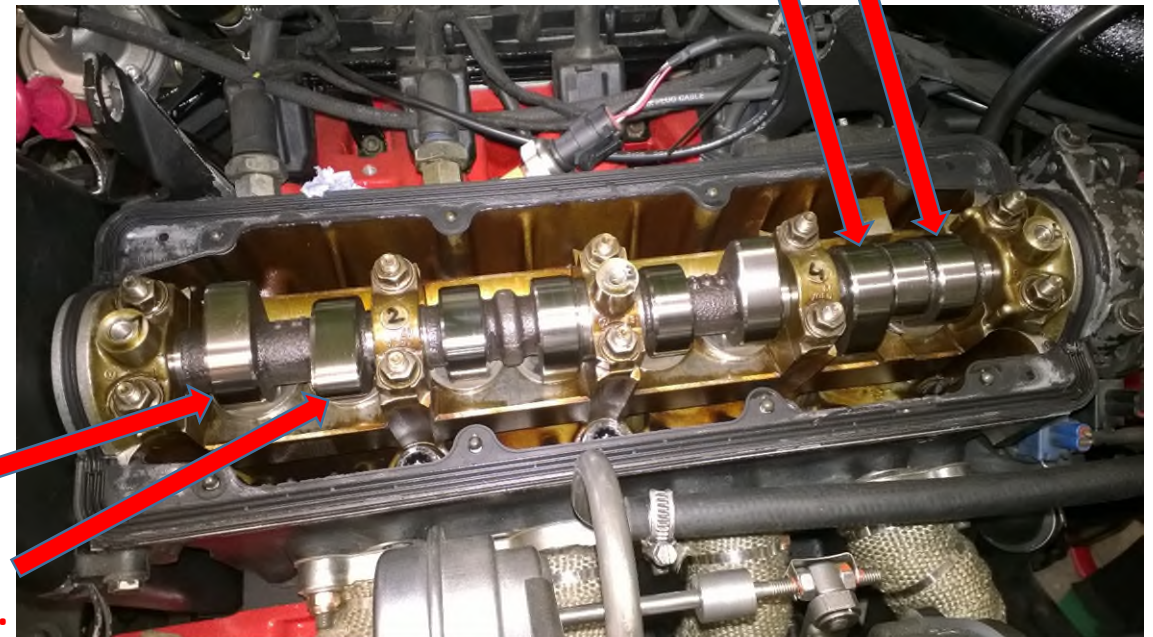
You get the adjustment values from the camshaft manufacturer.

We recommend to measure the TDC (top dead centre) with a dial indicator. OE points are not precise.

In the beginning, it is useful to start with the adjustment values from your camshaft manufacturer. While tuning your engine, you can adjust the camshaft timing in both directions. Please pay attention to the minimum clearance between piston and valve.

Please also follow the mounting instructions for your car (VW, Audi, Skoda, ...) and camshaft manufacturer to prevent any engine damage.

adjust valve lift on 4th cylinder with dial indicator.
e.g. intake 1,95 mm
exhaust 1,30 mm



1st cylinder has to be at compression stroke on TDC.