



## INA Service Info



# Crankshaft gear

## Note different pitches

Manufacturer: Audi, Seat, Škoda, Volkswagen

### Models:

Audi: A1  
 Seat: Alhambra, Toledo  
 Škoda: Octavia, Rapid, Yeti  
 Volkswagen: Beetle, CC, Eos, Golf, Jetta, Passat, Scirocco, Tiguan

Engine: 1.4 TSI

Part no.: 559 1808 40  
 559 1808 41  
 559 1808 50  
 559 1808 51

For current listing refer to catalogue media

### Legend for Figure 1:

- (1) 1x camshaft variable valve
- (2) 1x camshaft gear
- (3) 1x timing chain
- (4) 1x tensioning rail
- (5) 1x guide rail
- (6) 1x chain tensioner
- (7a) 1x crankshaft gear (pitch 18/18)  
(timing chain KIT 559 1808 40, 559 1808 50)
- (7b) 1x crankshaft gear (pitch 23/18)  
(timing chain KIT 559 1808 41, 559 1808 51)

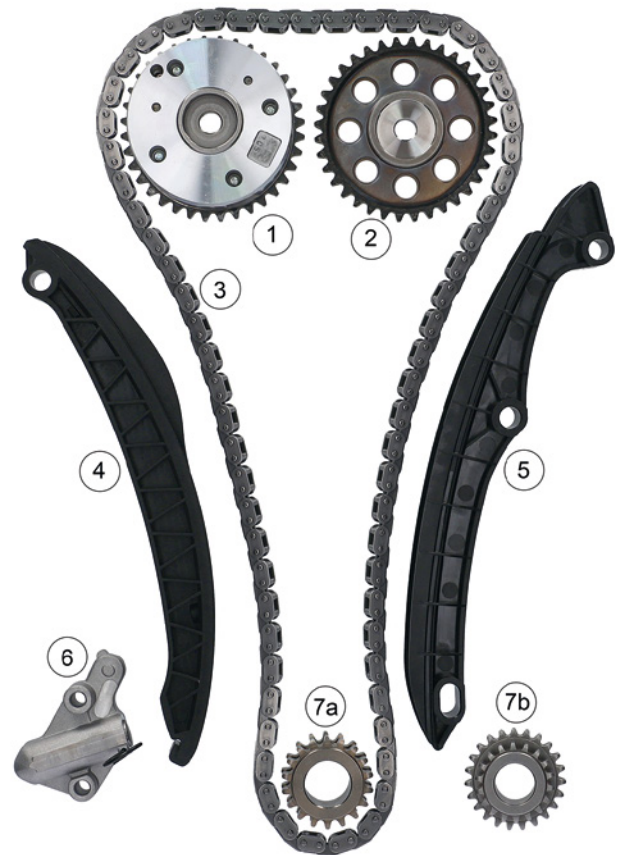


Figure 1: 559 1808 40 / 559 1808 41 – Timing chain KIT components

For the engine listed above, the crankshaft gear for the timing chain system is available in four different tooth pitches.

The following arrangement must be used:

Crankshaft gear removed	Part number	Crankshaft gear to be installed
Pitch 18/18	559 1808 40, 559 1808 50	Pitch 18/18
Pitch 18/19	559 1808 40, 559 1808 50	Pitch 18/18
Pitch 23/18	559 1808 41, 559 1808 51	Pitch 23/18
Pitch 23/19	559 1808 41, 559 1808 51	Pitch 23/18

If a gear with pitch 18/19 or 23/19 is removed from the crankshaft, ALL components of the timing chain system must be replaced when installing the corresponding timing chain KIT (see table, page 1). Otherwise, when the engine is running, the altered number of teeth will change the timing settings.

Legend for Figure 2:

- (8) 1x crankshaft pulley screw
- (9) 1x camshaft timer screw
- (10) 1x Schaeffler Chain Protect (50ml)
- (11) 2x guide pin (installation aid)
- (12) 1x oil pan sealing compound (80 ml)
- (13) 1x timing system housing gasket
- (14) 1x camshaft timer sleeve
- (15) 1x crankshaft seal ring
- (16) 1x camshaft gear screw
- (17) 1x o-ring for crankshaft gear
- (18) 1x timing system housing seal ring
- (19) 1x oil pan plug
- (20) 1x camshaft cap o-ring
- (21) 1x oil pressure switch seal ring

In addition, some engines with the engine code CAXA drive the oil pump not with a toothed chain but rather with a roller chain. In this case, kit 559 1808 50 or 559 1808 51 must be used, as the oil pump drive must also be replaced.

The screw for the camshaft timer is an expansion screw with lefthand threads and may be used only once. Follow the vehicle manufacturer's installation instructions.

As an installation aid for mounting the timing system housing and the oil pan, guide pins are included in both timing chain KITS. Screw them into the cylinder head and cylinder block, respectively.

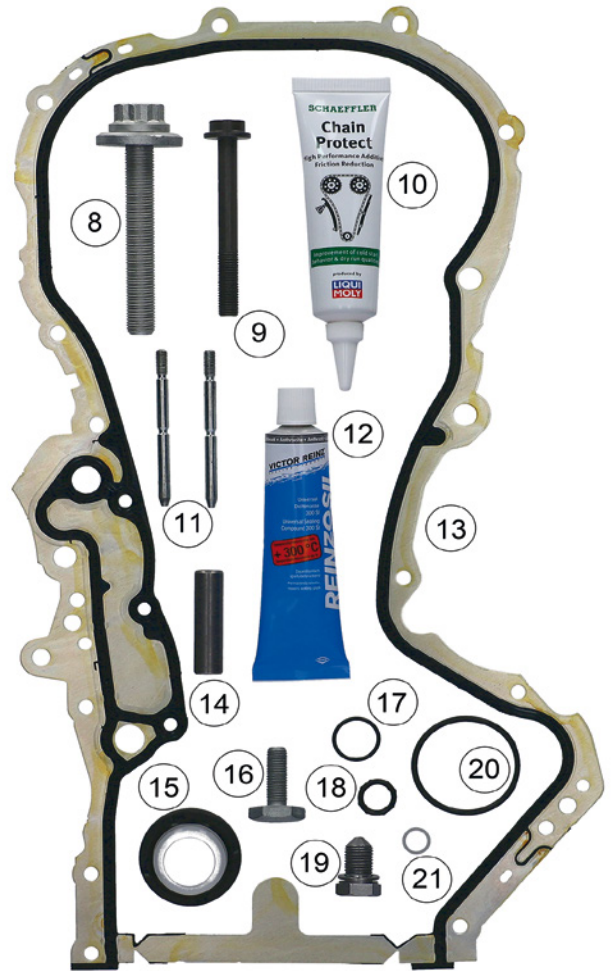


Figure 2: 559 1808 40 / 559 1808 41 - Timing chain KIT attachments

Please observe the vehicle manufacturer specifications!

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