

MAIN BEARING CAP TIGHTENING TORQUE

Article Text

1996 Volkswagen Golf
For Volkswagen Technical Site
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Friday, August 20, 1999 12:07AM

ARTICLE BEGINNING

TECHNICAL SERVICE BULLETIN

MAIN BEARING CAP TIGHTENING TORQUE

Model(s): 1993- on Volkswagen Golf, GTI, Jetta, Cabrio
with 2.0 liter engine code ABA
Group: 13 - Engine - Crankshaft/Crankcase
Bulletin No.: 96-01
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File this Technical Bulletin in Repair Manual No.: W42 011 294 105.

SERVICE INFORMATION

The following repair information includes a corrected tightening torque specification that will be integrated with the next Repair Manual update.

This information replace pages 13-2 and 13-26 in the current 04.94 edition Repair Manual 2.0 Liter General, Engine (W42 011 294 105).

CRANKSHAFT, REMOVING AND INSTALLING

Refer to Fig. 1.

- 1 - Main bearing shells 1, 2, 4, 5
 - * Without oil groove: for main bearing caps 1, 2 and 5.
 - * With oil groove: for main bearing cap 4 and cylinder block.
 - * Do not interchange used main bearing shells.
- 2 - 65 N.m (48 ft-lb) plus additional 1/4-turn (90°)
- 3 - Main bearing caps
 - * Main bearing cap 1: pulley side.
 - * Main bearing cap 3 with recesses for thrust washers.
 - * Holding tabs on cylinder block/main bearing cap, bearing shells must face each other.
- 4 - Main bearing shell 3
 - * Without oil groove: for main bearing cap.
 - * With oil groove: for cylinder block.
- 5 - Thrust washer
 - * For main bearing cap 3.
 - * Note installation positions.
- 6 - Sensor gear
 - * For Engine Speed (RPM) Sensor -G28-.
 - * Always replace.

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7 - 10 N.m (7 ft-lb) plus 1/4 turn (90°)

* Always replace.

8 - Crankshaft

* Axial clearance new: 0.07 - 0.17 mm (0.0028 - 0.0067 in.)

* Reconditioning limit: 0.25 mm (0.0098 in.).

* Measure radial clearance with Plastigage.

- new: 0.02 - 0.06 mm (0.0008 - 0.0024 in.)

- wear limit: 0.17 mm (0.0067 in)

CAUTION: Do Not turn crankshaft when measuring radial clearance.

9 - Thrust washer

* For cylinder block, main bearing 3.

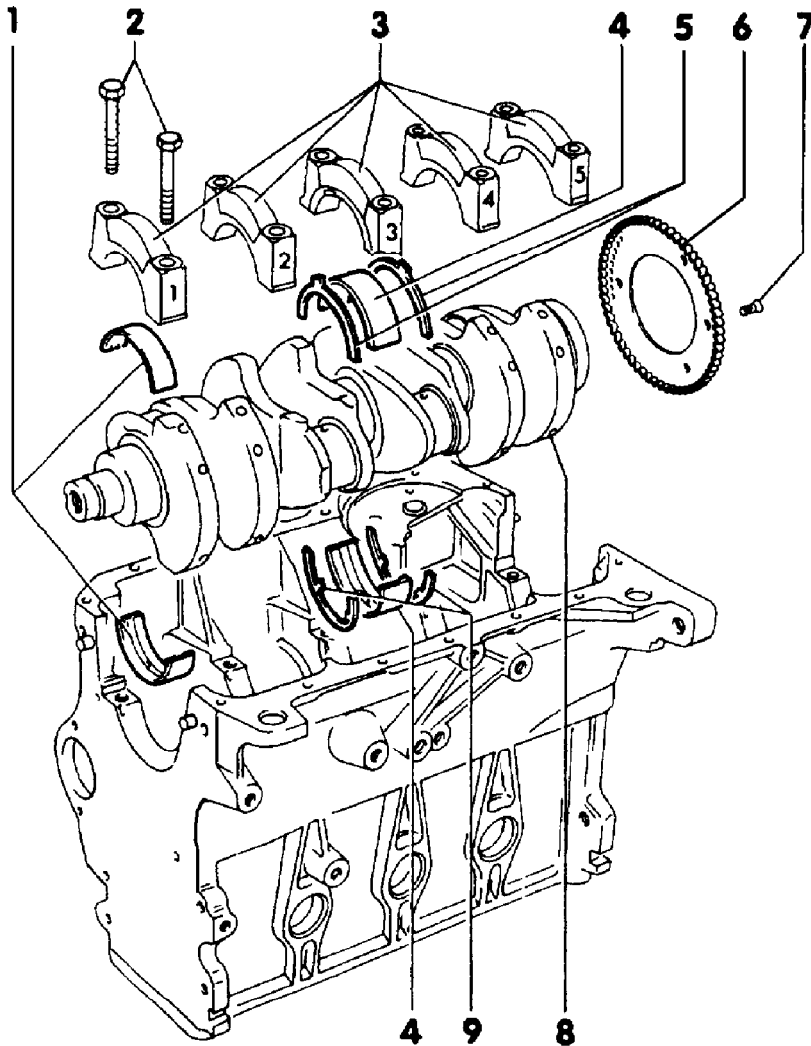


Fig. 1: Crankshaft & Main Bearings Assembly

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