



4 Piston and conrod: dismantling and assembling

1. Note

Before carrying out any assembly work, it is necessary to lubricate points of support and sliding surfaces.

1 - Piston

- 1. Checking [1.0000.02](#)
- 2. Mark appropriate position and cylinder from bar
- 3. Arrow: up piston crown points to pulley and
- 4. Install using piston ring clamp

2 - Piston pin

- 1. If difficult to remove, heat piston to 80 °C
- 2. Remove and install with 10-200

3 - Spring washer

4 - Control

- 1. Only serve as a set
- 2. Mark cylinder number on
- 3. Assembly position: Marking 40: faces towards pulley and
- 4. Gasket exactly on piston

5 - Halfball bearing

- 1. Note the fitting position.
- 2. Do not interchange used bearing shells
- 3. Insert bearing shells vertically
- 4. Check radial clearance with Plastigage: New: 0.020 - 0.041 mm; Used: 0.020 mm; Do not reuse crankshaft when checking radial clearance

6 - Cylinder block

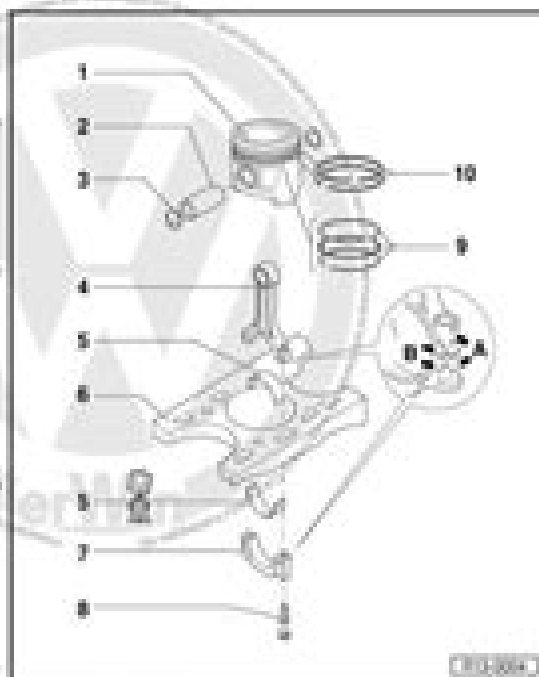
- 1. Checking cylinder bore [1.0000.02](#)
- 2. Piston and cylinder dimensions [1.0000.02](#)

7 - Control bearing cap

- 1. Note the fitting position.
- 2. The caps only fit in one position and only on the appropriate control, this is due to the creating procedure (marking) separating the cap from the control

8 - Control bolt, tighten to 30 Nm + 1/4 turn (30 °)

- 1. Retain



- 1. Oil threads and contact surface
- 2. To measure radial clearance tighten to 30 Nm but not further

9 - Oil scraper ring

- 1. Carefully remove and install 2 part of scraper rings by hand
- 2. "TOP" faces towards piston crown
- 3. Checking ring gap [1.0000.02](#)
- 4. Checking ring to groove clearance [1.0000.02](#)

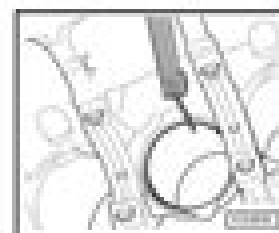
10 - Compression rings

- 1. Offset gaps to 120 °
- 2. Remove and install piston rings with piston ring plate
- 3. "TOP" faces towards piston crown
- 4. Checking ring gap [1.0000.02](#)
- 5. Checking ring to groove clearance [1.0000.02](#)

Checking piston ring gap (check gap)

- Push ring squarely from above down to approx. 10 mm from bottom end of cylinder

Piston ring	Max. limit
1. Compression rings	1.0 mm
2. Compression rings	1.0 mm
Oil scraper ring	1.0 mm



Checking ring to groove clearance

Clean groove before checking.

Piston ring	Max. limit
1. Compression rings	0.20 mm
2. Compression rings	0.15 mm
Oil scraper ring	0.15 mm



Checking pistons



Special tools and workshop equipment required

- Micrometer 0.01 - 50 mm

Vw Polo 9n4 Service Manual

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