



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 - 0.041 mm; Do not reuse crankshaft when checking radial clearance

6 - Cylinder block

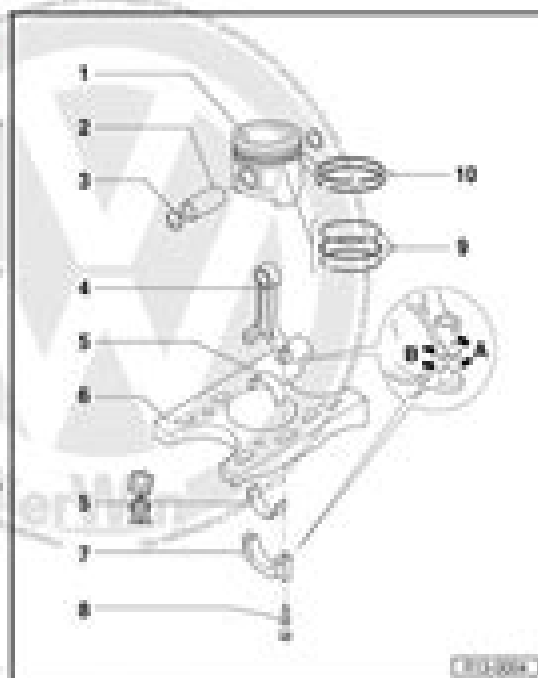
- 1. Checking cylinder bore [1.0000.02](#)
- 2. Piston and cylinder dimensions [1.0000.02](#)

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 oil scraper rings by hand
- 2. 100° faces towards piston crown
- 3. Checking ring gap [1.0000.02](#)
- 4. Checking ring to groove clearance [1.0000.02](#)

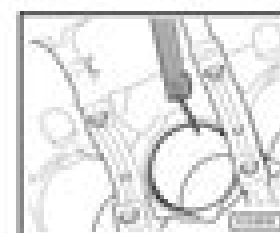
10 - Compression rings

- 1. Offset gaps to 120°
- 2. Remove and install piston rings with piston ring plate
- 3. 100° 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)

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

Piston ring	Clearance
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	Clearance
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

- 1. Micrometer 0.01 mm

Vw Polo 9n4 Service Manual

**John Harold Haynes, Kenneth Frederick
Kinchin**



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Table of Contents Vw Polo 9n4 Service Manual

1. Understanding the eBook Vw Polo 9n4 Service Manual
 - The Rise of Digital Reading Vw Polo 9n4 Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vw Polo 9n4 Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vw Polo 9n4 Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vw Polo 9n4 Service Manual
 - Personalized Recommendations
 - Vw Polo 9n4 Service Manual User Reviews and Ratings
 - Vw Polo 9n4 Service Manual and Bestseller Lists

5. Accessing Vw Polo 9n4 Service Manual Free and Paid eBooks
 - Vw Polo 9n4 Service Manual Public Domain eBooks
 - Vw Polo 9n4 Service Manual eBook Subscription Services
 - Vw Polo 9n4 Service Manual Budget-Friendly Options
6. Navigating Vw Polo 9n4 Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Vw Polo 9n4 Service Manual Compatibility with Devices
 - Vw Polo 9n4 Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vw Polo 9n4 Service Manual
 - Highlighting and Note-Taking Vw Polo 9n4 Service Manual
 - Interactive Elements Vw Polo 9n4 Service Manual
8. Staying Engaged with Vw Polo 9n4 Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vw Polo 9n4 Service Manual
9. Balancing eBooks and Physical Books Vw Polo 9n4 Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vw Polo 9n4 Service Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Vw Polo 9n4 Service Manual
 - Setting Reading Goals Vw Polo 9n4 Service Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vw Polo 9n4 Service Manual
 - Fact-Checking eBook Content of Vw Polo 9n4 Service Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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