

10 - Technical data
11 - Removing and installing engine
12 - Crankshaft group
13 - Cylinder head, intake ports
17 - Camshaft
18 - Camshaft
21 - Turbocharging supercharger
24 - Intake pressure - cylinder
26 - Exhaust system
28 - System water

Timing marking - balance ports

- 1. Remove timing chain tensioner with 20
- 2. Remove upper timing marking and align with 20
- 3. Align lower marking



Intake - cylinder head



When removing the cylinder head, do not touch the hot intake air pipe (turbocharger).

Do not touch the cylinder head when the engine is hot. Use a soft cloth to protect the cylinder head when the cylinder head is hot.

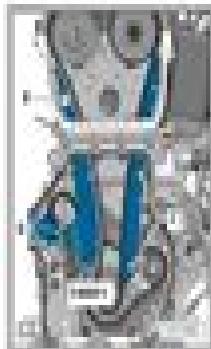
- 1. Remove oil restrictor on intake
- 2. Align intake air pipe (turbocharger) to 20 mm
- 3. Turn the cylinder head
- The cylinder head must be rotated by approximately 180 degrees to align the intake air pipe.**
- 4. Align intake air pipe to 20 mm
- 5. Use spanner to turn 10 bolts



1.4 Removing and installing the chain for balance shaft

Removing

- 1. Remove central timing chain 1000.00
- 2. Remove cover cylinder for central timing chain 20



1.5 Balance shaft 1

1000.00 **1000.00** **1000.00** **1000.00** **1000.00** **1000.00** **1000.00**

- 1. Remove cover cylinder for balance shaft timing chain 20
- 2. Remove timing chain 20
- 3. Remove gear 1000
- 4. Remove gear 1000
- 5. Remove timing chain

Assembly

- 1. Replace timing chain 1000.00
- 2. **Do not apply torque to the timing chain.**

- 3. Turn the gear assembly shaft to balance chain



The timing chain must not be tensioned when the gear assembly is turned.



- 4. Fit gear 1000 for timing chain and tighten bolts 20
- 5. Fit gear 1000 for timing chain and tighten bolts 20
- 6. Fit assembly central timing chain and tighten bolt 20
- 7. Align position of central cylinder cover. To do this, align the 1000.00 markings with the cylinder head.
- 8. Remove cylinder cover for timing chain 20

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Table of Contents Audi A3 Technique Workshop Manual

1. Understanding the eBook Audi A3 Technique Workshop Manual
 - The Rise of Digital Reading Audi A3 Technique Workshop Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Audi A3 Technique Workshop 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 Audi A3 Technique Workshop Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Audi A3 Technique Workshop Manual
 - Personalized Recommendations
 - Audi A3 Technique Workshop Manual User Reviews and Ratings
 - Audi A3 Technique Workshop Manual and Bestseller Lists

5. Accessing Audi A3 Technique Workshop Manual Free and Paid eBooks
 - Audi A3 Technique Workshop Manual Public Domain eBooks
 - Audi A3 Technique Workshop Manual eBook Subscription Services
 - Audi A3 Technique Workshop Manual Budget-Friendly Options
6. Navigating Audi A3 Technique Workshop Manual eBook Formats
 - ePUB, PDF, MOBI, and More
 - Audi A3 Technique Workshop Manual Compatibility with Devices
 - Audi A3 Technique Workshop Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Audi A3 Technique Workshop Manual
 - Highlighting and Note-Taking Audi A3 Technique Workshop Manual
 - Interactive Elements Audi A3 Technique Workshop Manual
8. Staying Engaged with Audi A3 Technique Workshop Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Audi A3 Technique Workshop Manual
9. Balancing eBooks and Physical Books Audi A3 Technique Workshop Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Audi A3 Technique Workshop Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Audi A3 Technique Workshop Manual
 - Setting Reading Goals Audi A3 Technique Workshop Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Audi A3 Technique Workshop Manual
 - Fact-Checking eBook Content of Audi A3 Technique Workshop 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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