

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- | | | |
|------------------------------------|--------------------------|--|
| ① Crankshaft position sensor (CKP) | ⑪ Piston | ⑲ Crankshaft |
| ② Oil temperature sensor | ⑫ Oil ring | ⑳ Crankshaft key |
| ③ Second ring | ⑬ Piston pin | ㉑ Comply with the assembly procedure when tightening. Refer to 2.6.1.1.1 |
| ④ Third ring | ⑭ Connecting rod bearing | |
| ⑤ Oil pin | ⑮ Lower cylinder block | |
| ⑥ Piston pin | ⑯ Oil level gauge | |
| ⑦ Oil level pin | ⑰ Thrust bearing | |
| ⑧ Signal plate | ⑱ Crankshaft key | |
| ⑨ Crankshaft | | |

- | | |
|--------------------------|--|
| ⑩ Crankshaft | ⑲ Crankshaft |
| ⑪ Piston | ⑳ Crankshaft key |
| ⑫ Oil ring | ㉑ Comply with the assembly procedure when tightening. Refer to 2.6.1.1.1 |
| ⑬ Piston pin | |
| ⑭ Connecting rod bearing | |
| ⑮ Lower cylinder block | |
| ⑯ Oil level gauge | |
| ⑰ Thrust bearing | |
| ⑱ Crankshaft key | |

Turn bolts 50 degrees clockwise (angle tightening).

CAUTION

- Confirm the tightening angle by using an angle wrench (SST: RW10152100) — ① (A) or protrusion. Be careful by visual inspection without the tool.
- After tightening connecting rod cap bolt, check that the connecting rod rotates smoothly.
- Check the connecting rod side clearance.
- Check the piston protrusion. Refer to [2.6.1.1.1](#).

Install balancer unit with the following procedure:

CAUTION

When any one of the balancer unit components below is replaced, adjust backlash of the balancer unit. Refer to [2.6.1.1.1](#).

CAUTION

- Crankshaft
- Cylinder block
- Balancer unit

Check the crankshaft at the TDC of its compression stroke. Refer to [2.6.1.1.1](#).

Turn the crankshaft pin (20T) — (Max. 1750G) (A).

Place the hole of the balancer unit (shown with test hole ②) on the cylinder block side, and place stem ③ of balancer unit as shown in the figure.

② : Engine test

Install the balancer unit fixed with fixing pin (A) to cylinder block together with baffle plate ①.

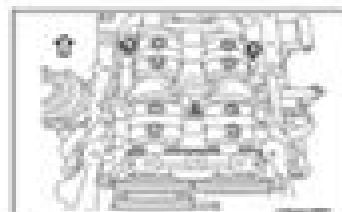
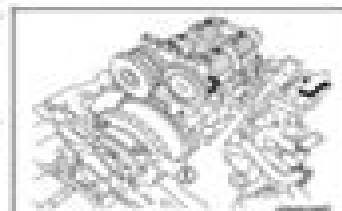
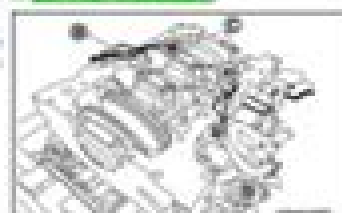
② : Engine test

CAUTION

The balancer unit weights must be positioned on the opposite side to the crankshaft.

Temporarily tighten balancer unit mounting test ③.

② : Engine test



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Table of Contents 20nissan Frontier Factory Repair Manual

1. Understanding the eBook 20nissan Frontier Factory Repair Manual
 - The Rise of Digital Reading 20nissan Frontier Factory Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 20nissan Frontier Factory Repair 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 20nissan Frontier Factory Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 20nissan Frontier Factory Repair Manual
 - Personalized Recommendations
 - 20nissan Frontier Factory Repair Manual User Reviews and Ratings

- 20nissan Frontier Factory Repair Manual and Bestseller Lists
- 5. Accessing 20nissan Frontier Factory Repair Manual Free and Paid eBooks
 - 20nissan Frontier Factory Repair Manual Public Domain eBooks
 - 20nissan Frontier Factory Repair Manual eBook Subscription Services
 - 20nissan Frontier Factory Repair Manual Budget-Friendly Options
- 6. Navigating 20nissan Frontier Factory Repair Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 20nissan Frontier Factory Repair Manual Compatibility with Devices
 - 20nissan Frontier Factory Repair Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 20nissan Frontier Factory Repair Manual
 - Highlighting and Note-Taking 20nissan Frontier Factory Repair Manual
 - Interactive Elements 20nissan Frontier Factory Repair Manual
- 8. Staying Engaged with 20nissan Frontier Factory Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 20nissan Frontier Factory Repair Manual
- 9. Balancing eBooks and Physical Books 20nissan Frontier Factory Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 20nissan Frontier Factory Repair Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 20nissan Frontier Factory Repair Manual
 - Setting Reading Goals 20nissan Frontier Factory Repair Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 20nissan Frontier Factory Repair Manual
 - Fact-Checking eBook Content of 20nissan Frontier Factory Repair 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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a protons neutrons and photons positrons neutrons and electrons b positrons neutrons and electrons protons electrons and positrons c protons electrons and positrons protons neutrons and electrons d