

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- | | | |
|--|--|--|
| ① Crankshaft position sensor (POS) | ① Crankshaft position sensor (POS) | ① Crankshaft position sensor (POS) |
| ② Oil temperature sensor | ② Oil temperature sensor | ② Oil temperature sensor |
| ③ Second ring | ③ Second ring | ③ Second ring |
| ④ Third ring | ④ Third ring | ④ Third ring |
| ⑤ Oil pin | ⑤ Oil pin | ⑤ Oil pin |
| ⑥ Power pin | ⑥ Power pin | ⑥ Power pin |
| ⑦ Oil | ⑦ Oil | ⑦ Oil |
| ⑧ Dipole | ⑧ Dipole | ⑧ Dipole |
| ⑨ Crankshaft | ⑨ Crankshaft | ⑨ Crankshaft |
| ⑩ Piston | ⑩ Piston | ⑩ Piston |
| ⑪ Connecting rod | ⑪ Connecting rod | ⑪ Connecting rod |
| ⑫ Piston pin | ⑫ Piston pin | ⑫ Piston pin |
| ⑬ Connecting rod bearing | ⑬ Connecting rod bearing | ⑬ Connecting rod bearing |
| ⑭ Lower cylinder block | ⑭ Lower cylinder block | ⑭ Lower cylinder block |
| ⑮ Oil level gauge | ⑮ Oil level gauge | ⑮ Oil level gauge |
| ⑯ Thrust bearing | ⑯ Thrust bearing | ⑯ Thrust bearing |
| ⑰ Crankshaft key | ⑰ Crankshaft key | ⑰ Crankshaft key |
| ⑱ Comply with the assembly procedure when tightening. Refer to 2.2.2.2.2 | ⑱ Comply with the assembly procedure when tightening. Refer to 2.2.2.2.2 | ⑱ Comply with the assembly procedure when tightening. Refer to 2.2.2.2.2 |
| ⑲ Piston | ⑲ Piston | ⑲ Piston |
| ⑳ Fly ring | ⑳ Fly ring | ⑳ Fly ring |
| ㉑ Piston | ㉑ Piston | ㉑ Piston |
| ㉒ Connecting rod | ㉒ Connecting rod | ㉒ Connecting rod |
| ㉓ Connecting rod bearing cap | ㉓ Connecting rod bearing cap | ㉓ Connecting rod bearing cap |
| ㉔ Fly ring | ㉔ Fly ring | ㉔ Fly ring |
| ㉕ Rear oil seal | ㉕ Rear oil seal | ㉕ Rear oil seal |
| ㉖ Main bearing upper | ㉖ Main bearing upper | ㉖ Main bearing upper |
| ㉗ Main bearing lower | ㉗ Main bearing lower | ㉗ Main bearing lower |

Weight: 25.0 kg (2.0 kg-m, 18.0 lb)

Turn bolts 50 degrees clockwise (angle tightening).

CAUTION

- Confirm the tightening angle by using an angle wrench (SST: RW10152100) — ① (A) or protractor. Never judge by visual inspection without the tool.
- After tightening connecting rod cap bolt, the crankshaft rotates smoothly.
- Check the connecting rod side clearance.
- Check the piston protrusion.

Install balancer unit in the following procedure:

CAUTION

When any of the balancer unit is replaced, adjust backlash of the balancer unit. Refer to [2.2.2.2.2](#).

CAUTION

Adjust the balancer unit at the TDC of its compression stroke. Refer to [2.2.2.2.2](#).

CAUTION

Adjust the TOC set pin (SST — (Max. 1788) (A).

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

① Engine test

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

① Engine test

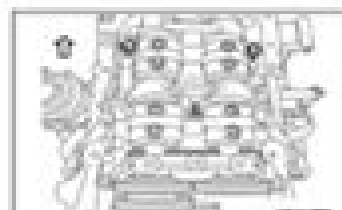
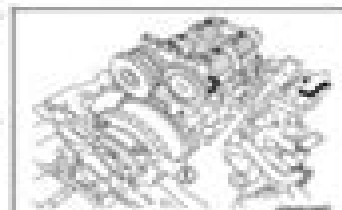
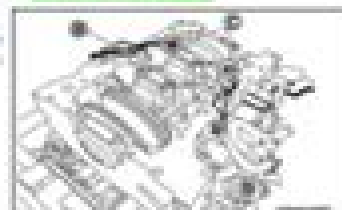
CAUTION

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

Temporarily tighten balancer unit mounting bolt (B).

① Engine test

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2015 Nissan Frontier Repair Manual

Clemens Wendtner



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2015 Nissan Frontier Repair Manual Book Review: Unveiling the Magic of Language

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Table of Contents 2015 Nissan Frontier Repair Manual

1. Understanding the eBook 2015 Nissan Frontier Repair Manual
 - The Rise of Digital Reading 2015 Nissan Frontier Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 2015 Nissan Frontier 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 a 2015 Nissan Frontier Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2015 Nissan Frontier Repair Manual
 - Personalized Recommendations
 - 2015 Nissan Frontier Repair Manual User Reviews and Ratings
 - 2015 Nissan Frontier Repair Manual and Bestseller Lists

5. Accessing 2015 Nissan Frontier Repair Manual Free and Paid eBooks
 - 2015 Nissan Frontier Repair Manual Public Domain eBooks
 - 2015 Nissan Frontier Repair Manual eBook Subscription Services
 - 2015 Nissan Frontier Repair Manual Budget-Friendly Options
6. Navigating 2015 Nissan Frontier Repair Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 2015 Nissan Frontier Repair Manual Compatibility with Devices
 - 2015 Nissan Frontier Repair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2015 Nissan Frontier Repair Manual
 - Highlighting and Note-Taking 2015 Nissan Frontier Repair Manual
 - Interactive Elements 2015 Nissan Frontier Repair Manual
8. Staying Engaged with 2015 Nissan Frontier Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2015 Nissan Frontier Repair Manual
9. Balancing eBooks and Physical Books 2015 Nissan Frontier Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2015 Nissan Frontier Repair Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2015 Nissan Frontier Repair Manual
 - Setting Reading Goals 2015 Nissan Frontier Repair Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2015 Nissan Frontier Repair Manual
 - Fact-Checking eBook Content of 2015 Nissan Frontier 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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