

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- | | | |
|------------------------------------|--------------------------|--|
| ① Crankshaft position sensor (CKP) | ① Piston | ① Crank sensor |
| ② Oil temperature sensor | ② Oil ring | ② Tie ring |
| ③ Second ring | ③ Oil ring | ③ Piston |
| ④ Third ring | ④ Piston pin | ④ Connecting rod bearing |
| ⑤ Oil pin | ⑤ Connecting rod bearing | ⑤ Lower cylinder block |
| ⑥ Lower pin | ⑥ Lower cylinder block | ⑥ Oil level gauge |
| ⑦ Oil level gauge | ⑦ Thrust bearing | ⑦ Crankshaft key |
| ⑧ Thrust plate | ⑧ Crankshaft key | ⑧ Comply with the assembly procedure when tightening. Refer to 2.2.2.2 |
| ⑨ Crankshaft | ⑨ Thrust bearing | |
| ⑩ Oil | ⑩ Thrust bearing | |
| | ⑪ Thrust bearing | |
| | ⑫ Thrust bearing | |
| | ⑬ Thrust bearing | |
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Turn bolts 50 degrees clockwise (angle tightening).

- CAUTION**
- Confirm the tightening angle by using an angle wrench (SST: RW10152100) — (J) (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 [2.2.2.2](#).

Install balancer unit with the following procedure:

CAUTION

When any one of the components below is replaced, adjust backlash of the balancer unit. Refer to [2.2.2.2](#).

- Crankshaft
- Cylinder block
- Balancer unit

Check the crankshaft at the TDC of its compression stroke. Refer to [2.2.2.2](#).

Set pin (201) — (Max. 1750g) (A).

Place the hole of the balancer unit (pin with test hole (C)) on the cylinder block side, and place stem (B) 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 (C).

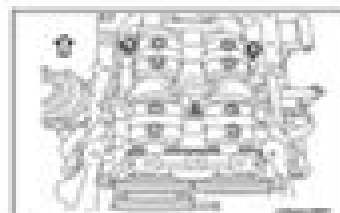
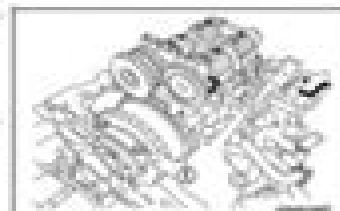
① Engine test

CAUTION

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

Temporarily tighten balancer unit mounting test (B).

① Engine test



Factory Service Manual Frontier

Great Britain. Colonial Office



Factory Service Manual Frontier:

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Table of Contents **Factory Service Manual Frontier**

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

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