

# Nissan Frontier 2015-2020 Workshop Manual

## CYLINDER BLOCK

### Exploded View



- |                                    |                          |                          |
|------------------------------------|--------------------------|--------------------------|
| ① Crankshaft position sensor (CKP) | ① Crankshaft             | ① Crank pin              |
| ② Oil temperature sensor           | ② Oil pump               | ② Piston                 |
| ③ Second ring                      | ③ Oil ring               | ③ Connecting rod         |
| 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 Crankshaft             |
| ⑨ Crankshaft                       | ⑨ Crankshaft key         | ⑨ Crankshaft             |
| ⑩ Crankshaft                       | ⑩ Crankshaft key         | ⑩ Crankshaft             |

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 [Fig. 1-1-1](#).

Install balancer unit with the following procedure:

**CAUTION**

When any one of the balancer unit below is replaced, adjust backlash of the balancer unit. Refer to [Fig. 1-1-1](#).

• Crankshaft

• Cylinder block

• Balancer unit

Check the balancer unit at the TDC of its compression stroke. Refer to [Fig. 1-1-1](#).

• Crankshaft set pin (SST — (Max. 1750g) (A)

Insert the hole of the balancer unit show with test hole (C) on the cylinder block side, and place show (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).

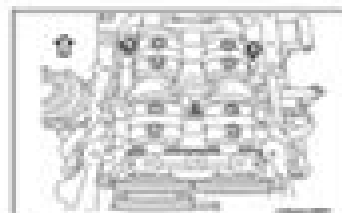
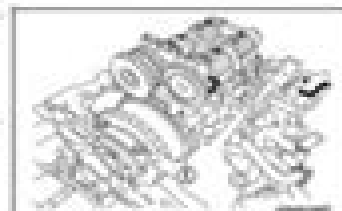
① Engine test

**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

**C Cleary**



## **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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