

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- | | |
|------------------------------------|--|
| ① Crankshaft position sensor (CKP) | ① Crankshaft |
| ② Oil temperature sensor | ② Oil pump |
| ③ Second ring | ③ Oil ring |
| ④ Third ring | ④ Piston pin |
| ⑤ Oil pin | ⑤ Connecting rod bearing |
| ⑥ Piston pin | ⑥ Lower cylinder block |
| ⑦ Oil level gauge | ⑦ Oil level gauge |
| ⑧ Signal plate | ⑧ Thrust bearing |
| ⑨ Crankshaft | ⑨ Crankshaft key |
| ⑩ - Note | ⑩ - Comply with the assembly procedure when tightening. Refer to 2.2.2.2.2 |

- | |
|------------------------------|
| ① Crankshaft |
| ② Tie ring |
| ③ Piston |
| ④ Connecting rod |
| ⑤ Connecting rod bearing cap |
| ⑥ Crank |
| ⑦ Rear oil seal |
| ⑧ Main bearing upper |
| ⑨ Main bearing lower |

torque 25.0 Nm (2.0 kg-m, 18 ft-lb)

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 [2.2.2.2.2](#).

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 [2.2.2.2.2](#).

- Crankshaft
- Cylinder block
- Balancer unit

Check the oil level.

Check the oil level at the TDC of its compression stroke. Refer to [2.2.2.2.2](#).

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① - Engine test

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

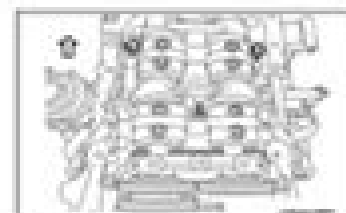
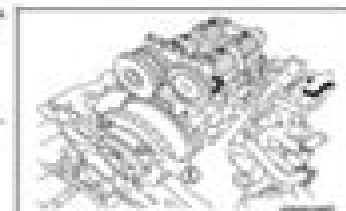
① - Engine test

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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