

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

- Crankshaft
- Cylinder block
- Balancer unit

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

Turn the crank pin (D) — (Max. 1750) (A).

The oil level hole of the balancer unit shows 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).

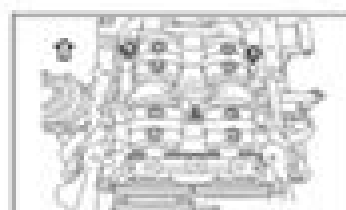
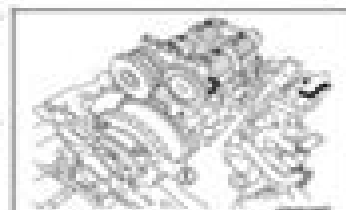
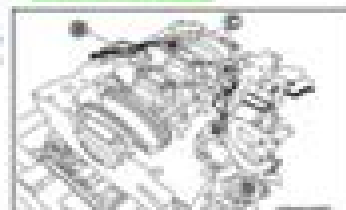
① Engine test

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



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O García



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