

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- | | | |
|------------------------------------|--------------------------|--|
| ① Crankshaft position sensor (CKP) | ⑪ Piston | ⑲ Crankshaft |
| ② Oil temperature sensor | ⑫ Oil ring | ⑳ Crankshaft key |
| ③ Second ring | ⑬ Piston pin | ㉑ Comply with the assembly procedure when tightening. Refer to 2.2.2.2 |
| ④ Third ring | ⑭ Connecting rod bearing | |
| ⑤ Oil pin | ⑮ Lower cylinder block | |
| ⑥ Piston pin | ⑯ Oil level gauge | |
| ⑦ Oil level pin | ⑰ Thrust bearing | |
| ⑧ Thrust plate | | |
| ⑨ Crankshaft | | |
| ㉒ Valve | | |

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) — ② (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 oil level at the TDC of its compression stroke. Refer to [2.2.2.2](#).

Turn the crank pin (20T) — (Max. 1750g (A)).

Place the hole of the balancer unit (with test hole ②) on the cylinder block side, and place stem ③ of balancer unit as shown in the figure.

② : Engine test

Install the balancer unit fixed with fixing pin (A) to cylinder block together with baffle plate ①.

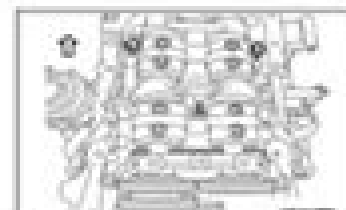
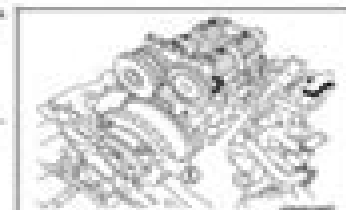
② : Engine test

CAUTION

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

Temporarily tighten balancer unit mounting test ③.

② : Engine test



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Rosina Ehmann



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