

Nissan Frontier 2015-2020 Workshop Manual

CYLINDER BLOCK

Exploded View



- ① Crankshaft position sensor (CKP)
- ② Oil temperature sensor
- ③ Second ring
- ④ Third ring
- ⑤ Oil jet
- ⑥ Power pin
- ⑦ Connecting rod bearing
- ⑧ Lower cylinder block
- ⑨ Oil level gauge
- ⑩ Thrust bearing
- ⑪ Crankshaft key
- ⑫ Crankshaft
- ⑬ Crank pin
- ⑭ Pin ring
- ⑮ Piston
- ⑯ Connecting rod
- ⑰ Connecting rod bearing cap
- ⑱ C-ring
- ⑲ Rear oil seal
- ⑳ Main bearing upper
- ㉑ Main bearing lower
- ㉒ Oil level gauge
- ㉓ Thrust bearing
- ㉔ Crankshaft key
- ㉕ Crankshaft
- ㉖ Crank pin
- ㉗ Pin ring
- ㉘ Piston
- ㉙ Connecting rod
- ㉚ Connecting rod bearing cap
- ㉛ C-ring
- ㉜ Rear oil seal
- ㉝ Main bearing upper
- ㉞ Main bearing lower

Turn bolts 50 degrees clockwise (angle tightening).

- CAUTION**
- Confirm the tightening angle by using an angle wrench (SST: W710152100) — 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 [Piston Protrusion](#).

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 [Balancer Unit Backlash Adjustment](#).

- Crankshaft
- Cylinder block
- Balancer unit

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

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

Place the test hole of the balancer unit (shown 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.

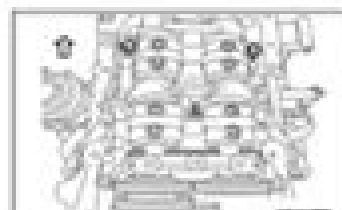
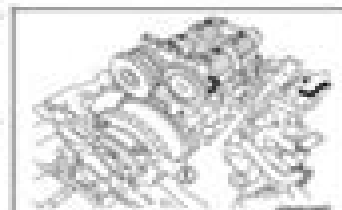
② Engine test

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



Factory Service Manual Nissan Frontier

Guillaume Favre



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