

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 2.2.1.1.1 |

- | |
|------------------------------|
| 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 [2.2.1.1.1](#)

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 [2.2.1.1.1](#)

- Crankshaft
- Cylinder block
- Balancer unit

Check the crankshaft at the TDC of its compression stroke. Refer to [2.2.1.1.1](#)

Set pin (20T) — (Max. 1750g (A))

Place the hole of the balancer unit (pin 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.

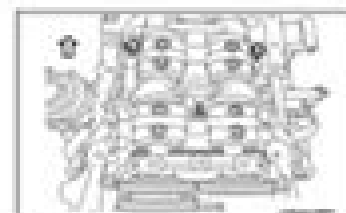
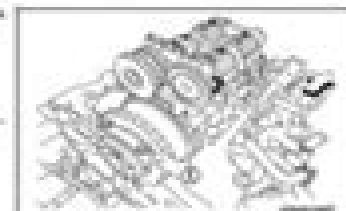
② - Engine test

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



2015 Nissan Frontier Service Repair Manual

P. J. Gill



2015 Nissan Frontier Service Repair Manual:

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Nissan Bluebird Automotive Repair Manual Tim Imhoff, John Harold Haynes, 1997 Models covered All series I series II and series III Nissan Bluebird models 1981 through 1986 **Nissan Patrol Automotive Repair Manual** Geoff Wilson, John Harold Haynes, 2014-08-15 This is a maintenance repair manual for the Nissan Patrol **Nissan Sunny Service and Repair Manual** A. K. Legg, Spencer Drayton, 1996

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