

Nissan Navara 2005-2015 Workshop Manual

OIL SEAL

REMOVAL AND INSTALLATION

OIL SEAL

Removal and Installation of Valve Oil Seal

REMOVAL

1. Remove fan shroud (lower). Refer to [CA-11, "Removal and Installation"](#).
2. Turn crankshaft until the cylinder requiring new oil seals is at TDC. This will prevent valve from dropping into cylinder.
3. Remove camshaft relating to valve oil seal to be removed. Refer to [CA-14](#).
4. Remove valve lifters. Refer to [CA-14](#).
5. Remove valve coil, valve spring retainer and valve spring using Tool.

- When working, be careful not to damage valve lifter holes.
- Do not remove valve spring seal from valve spring.

Tool numbers : KV10114200 (J-26336-A)
: KV10115800 (J-26336-20)
: KV10109320 (—)

- Compress valve spring using Tool. Remove valve coil with magnetic hand.

6. Remove valve oil seal using Tool.

Tool numbers : KV10107902 (J-38959)

INSTALLATION

1. Apply new engine oil to valve oil seal joint surface and
2. Press in valve oil seal to the height (H) as shown.

Tool numbers : KV10115800 (J-26336-20)

3. Installation of components is in the reverse order of removal.

Removal and Installation of Front Oil Seal

REMOVAL

1. Remove engine under cover. Refer to [CA-15, "Removal and Installation"](#).
2. Remove fan shroud (lower). Refer to [CA-11, "Exploded View"](#).
3. Remove cooling fan. Refer to [CA-15, "Removal and Installation \(Crankshaft Drive Side\)"](#).

CAMSHAFT

REMOVAL AND INSTALLATION

CAMSHAFT

Exploded View



- | | | |
|---------------------------------------|-----------------------------|--|
| 1. Camshaft bracket (No. 2 to 5) | 2. Seal washer | 3. Camshaft bracket (No. 1) |
| 4. Front cover | 5. Chain guide | 6. Chain tensioner |
| 7. Spring | 8. Chain tensioner plunger | 9. O-ring |
| 10. O-ring | 11. O-ring | 12. Intake valve timing control solenoid valve |
| 13. Intake valve timing control cover | 14. Camshaft sprocket (Int) | 15. Camshaft sprocket (Ext) |
| 16. O-ring | 17. Valve lifter | 18. Camshaft (Int) |
| 19. Camshaft (Ext) | 20. O-ring | 21. Camshaft position sensor (IPHA08) |

4. Refer to [CA-14, "Removal and Installation"](#).

Removal and Installation

NOTE:

This section describes removal/installation procedure of camshaft without removing front cover. When necessary remove the front cover, installation is in the reverse order of removal. Refer to [CA-11](#).

REMOVAL

1. Remove the rocker cover. Refer to [CA-17, "Removal and Installation"](#).
2. Remove the drive belt. Refer to [CA-14, "Removal and Installation"](#).
3. Disconnect and remove the camshaft position sensor (IPHA08).
4. Disconnect the harness connector from the intake valve timing control solenoid.
5. Disconnect the ground harness connectors from the front cover.

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