

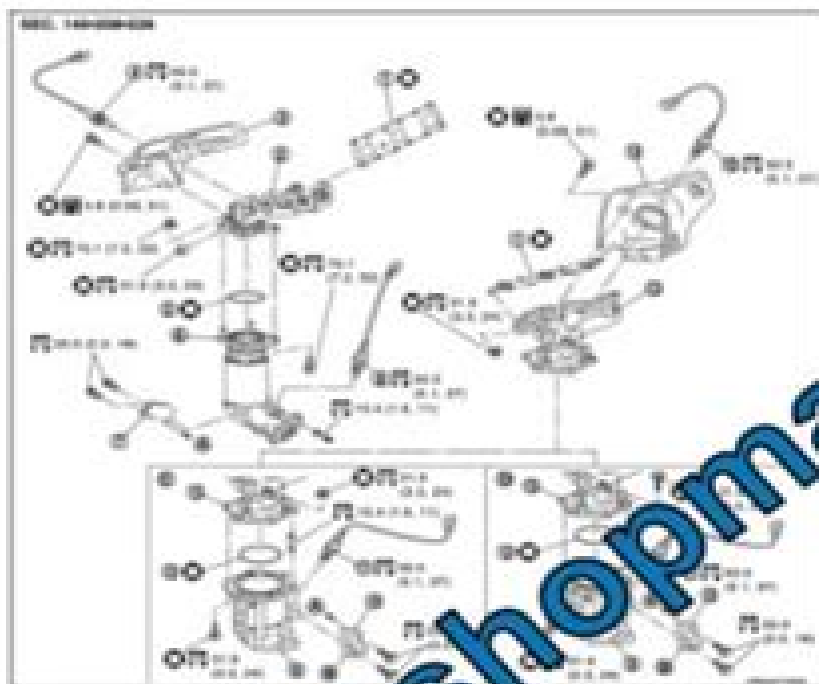
Nissan Murano Z51 2009-2014 Workshop Manual

EXHAUST MANIFOLD AND THREE WAY CATALYST

REMOVAL AND INSTALLATION

EXHAUST MANIFOLD AND THREE WAY CATALYST

Exploded View



- | | | |
|---|--|--------------------------------------|
| 1. Gasket | 2. Three-way catalyst support (Bolt 1) | 3. Exhaust manifold cover (Bolt 1) |
| 4. Air-fuel ratio sensor 1 (Bolt 1) | 5. Three-way catalyst support (Bolt 2) | 6. Three-way catalyst (Bolt 1) |
| 7. Three-way catalyst support (Bolt 1) | 8. Three-way catalyst support (Bolt 2) | 9. Three-way catalyst (Bolt 2) |
| 10. Three-way catalyst support (Bolt 2) | 11. Air-fuel ratio sensor 2 (Bolt 2) | 12. Ring gasket |
| 13. Exhaust manifold (Bolt 2) | 14. Exhaust manifold cover (Bolt 2) | 15. Air-fuel ratio sensor 1 (Bolt 2) |
| | | 16. Air-fuel ratio sensor 2 (Bolt 2) |

- A. To oil pan support
B. Flange bolt type
C. Flange nut type
D. Flange nut type
- Always use the correct torque wrench.
• Always use the correct torque wrench.

Removal and Installation

REMOVAL

1. Disconnect the negative battery cable.

CYLINDER HEAD

DISASSEMBLY AND ASSEMBLY

Install cylinder head follow the steps below to tighten cylinder head bolts in numerical order as shown in the figure with cylinder head bolts wrench (commercial service tool).

- A - Bolt 1
B - Bolt 2
C - Ring gasket

CAUTION:

- If cylinder head bolts removed, check the condition of the bolts before installation. Refer to [25.100](#) for the correct head bolt condition. Refer to [25.100](#) for the correct head bolt condition.
- Apply new engine oil to the contact surfaces of cylinder head bolts.
- Tighten all cylinder head bolts.

• **14.1 Nm (10.2 ft-lb)**

Complete the cylinder head bolts.

• **14.1 Nm (10.2 ft-lb)**

After the "A", loosen bolts in the reverse order of that indicated in the figure.

• **14.1 Nm (10.2 ft-lb)**

Turn all cylinder head bolts 103 degrees clockwise (angle tightening).

CAUTION:

- Check the tightening angle by using the angle wrench (S&S W71012100 (S10013-A2) (A). Avoid judgment by visual inspection without.
- Check tightening angle indicated on the angle wrench indicator plate.
- Turn all cylinder head bolts 103 degrees clockwise again (angle tightening).

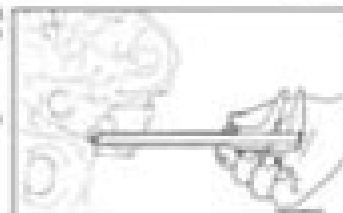
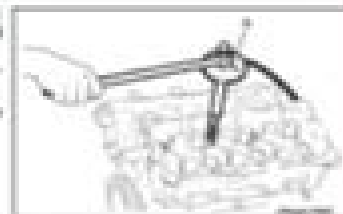
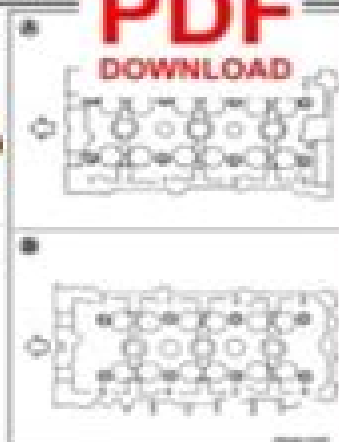
After installing cylinder head, measure distance between front and faces of cylinder block and cylinder head (Bolt 1 and Bolt 2).

Standard : 14.1 - 14.9 mm (0.555 - 0.587 in)

- If measured value is out of the standard, reinstalled cylinder head.

Install in the reverse order of removal after this step.

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Nissan Murano Complete Workshop Repair Manual 2013

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