

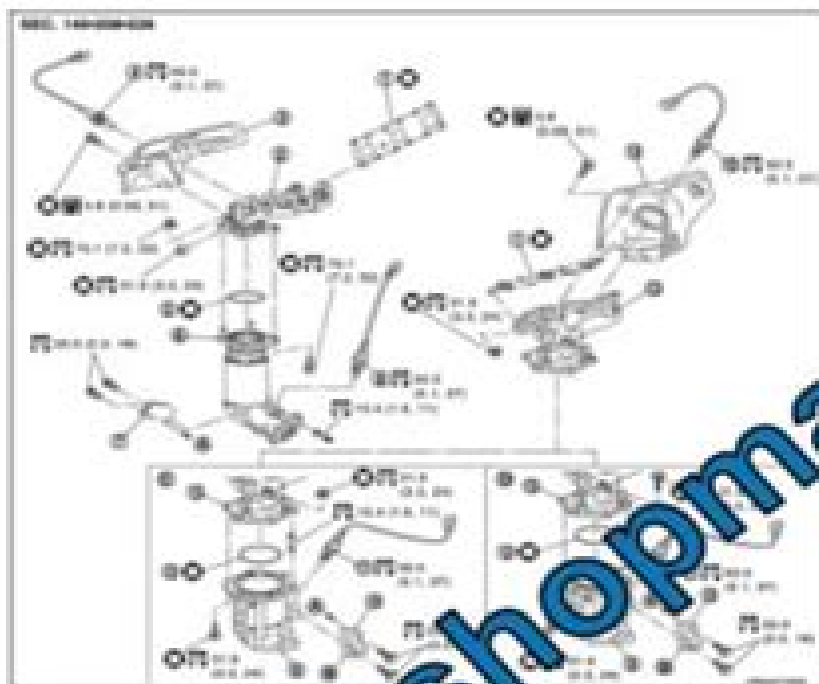
Nissan Murano Z51 2009-2014 Workshop Manual

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 1) | 12. Ring gasket |
| 13. Exhaust manifold (Bolt 1) | 14. Exhaust manifold cover (Bolt 1) | 15. Air fuel ratio sensor 1 (Bolt 2) |
| 14. Exhaust manifold cover (Bolt 2) | 15. Air fuel ratio sensor 2 (Bolt 2) | 16. Stud bolt and flange bolt type (Bolt 2) |

- A. To oil pan support
B. Flange bolt type
C. Flange bolt type
D. Flange bolt type
E. Flange bolt type
F. Flange bolt type
G. Flange bolt type
H. Flange bolt type
I. Flange bolt type
J. Flange bolt type
K. Flange bolt type
L. Flange bolt type
M. Flange bolt type
N. Flange bolt type
O. Flange bolt type
P. Flange bolt type
Q. Flange bolt type
R. Flange bolt type
S. Flange bolt type
T. Flange bolt type
U. Flange bolt type
V. Flange bolt type
W. Flange bolt type
X. Flange bolt type
Y. Flange bolt type
Z. Flange bolt type

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 [25.000](#) for the correct procedure.
 - Before installing cylinder head, check the condition of the head distortion. Refer to [25.000](#) for the correct procedure.
- Apply new engine oil to the contact surfaces of cylinder head bolts.
- Tighten all cylinder head bolts.

10.0 N·m (9.0 ft·lb)

Complete the cylinder head bolts.

12.0 N·m (8.8 ft·lb)

Turn all cylinder head bolts 180 degrees clockwise (angle tightening).
Tighten all cylinder head bolts.

16.0 N·m (11.8 ft·lb)

Turn all cylinder head bolts 180 degrees clockwise (angle tightening).

CAUTION:

- Check the tightening angle by using the angle wrench (S&S WY1012100 (S10013-A2) (A). Avoid judgment by visual inspection without.
 - Check tightening angle indicated on the angle wrench indicator plate.
- Turn all cylinder head bolts 180 degrees clockwise again (angle tightening).

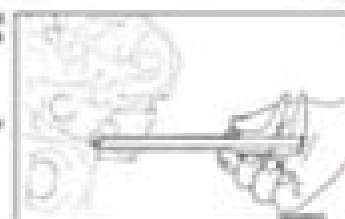
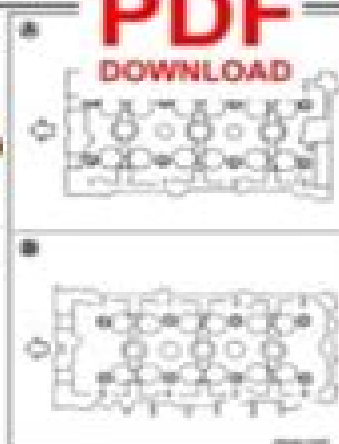
After installing cylinder head, measure distance between front and faces of cylinder block and cylinder head (Bolt 1 and Bolt 2).

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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