

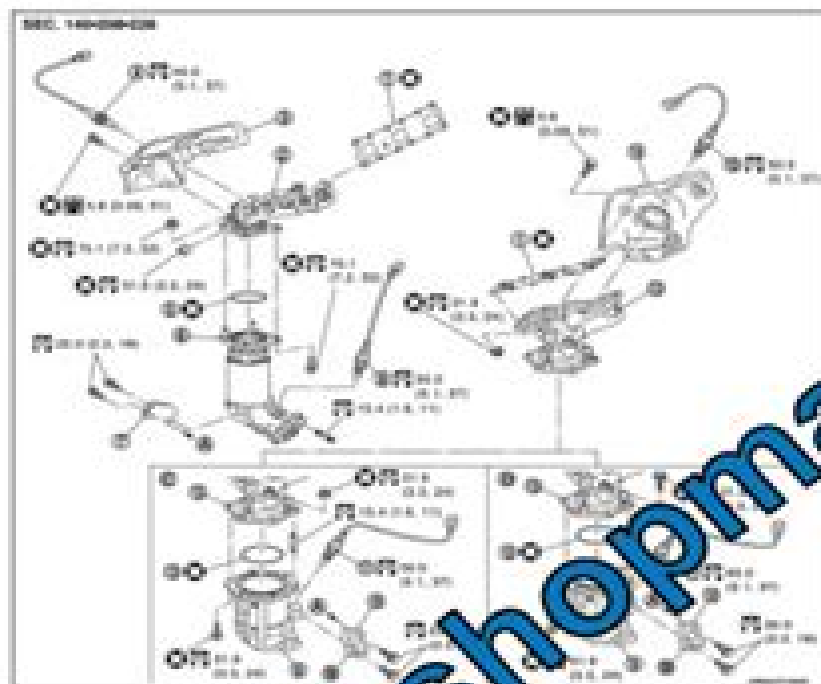
# Nissan Murano Z51 2009-2014 Workshop Manual

## EXHAUST MANIFOLD AND THREE WAY CATALYST

### REMOVAL AND INSTALLATION

## EXHAUST MANIFOLD AND THREE WAY CATALYST

### Exploded View



- |           |                                     |  |  |                              |                                    |                       |                       |                               |                          |                          |                 |                                      |   |                                     |                                 |                                 |                 |                                      |   |
|-----------|-------------------------------------|--|--|------------------------------|------------------------------------|-----------------------|-----------------------|-------------------------------|--------------------------|--------------------------|-----------------|--------------------------------------|---|-------------------------------------|---------------------------------|---------------------------------|-----------------|--------------------------------------|---|
| 1. Gasket | 2. Air fuel ratio sensor 1 (Bank 1) | 3. Three way catalyst support (Bank 1) | 4. Three way catalyst support (Bank 2) | 5. Exhaust manifold (Bank 2) | 6. Exhaust manifold cover (Bank 2) | 7. To oil pan (upper) | 8. Flange bolt type 2 | 9. Always tighten in sequence | 10. Torque (kg-m, ft-lb) | 11. Torque (kg-m, ft-lb) | 12. Ring gasket | 13. Air fuel ratio sensor 1 (Bank 2) | 14. Shut bolt and flange bolt type (Bank 2) | 15. Exhaust manifold cover (Bank 1) | 16. Three way catalyst (Bank 1) | 17. Three way catalyst (Bank 2) | 18. Ring gasket | 19. Air fuel ratio sensor 1 (Bank 2) | 20. Shut bolt and flange bolt type (Bank 2) |
|-----------|-------------------------------------|--|--|------------------------------|------------------------------------|-----------------------|-----------------------|-------------------------------|--------------------------|--------------------------|-----------------|--------------------------------------|---|-------------------------------------|---------------------------------|---------------------------------|-----------------|--------------------------------------|---|

### Removal and Installation

### REMOVAL

WAS2000001

## CYLINDER HEAD

### UNIT 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 : Step 1
- B : Step 2
- C : Tighten

### CAUTION:

- If cylinder head bolts reused, check the diameter before installation. Refer to [23.103](#) for cylinder head distortion. Refer to [23.103](#) for cylinder head distortion.
- Apply new engine oil to the contact surfaces of cylinder head bolts.
- Tighten all cylinder head bolts.

**39.1 Nm (4.0 kg-m, 28.5 ft-lb)**

Complete the cylinder head bolts.

**39.1 Nm (4.0 kg-m, 28.5 ft-lb)**

### CAUTION:

After "C", loosen bolts in the reverse order of that indicated in the figure, then all cylinder head bolts.

**39.2 Nm (4.0 kg-m, 28.5 ft-lb)**

Turn all cylinder head bolts 100 degrees clockwise (angle tightening).

### CAUTION:

- Check the tightening angle by using the angle wrench [557: KY10112100 (BT8653-A)] (AG). Avoid judgment by visual inspection without.
- Check tightening angle indicated on the angle wrench indicator plate.
- Turn all cylinder head bolts 100 degrees clockwise again (angle tightening).

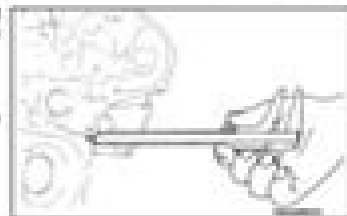
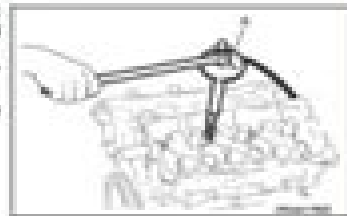
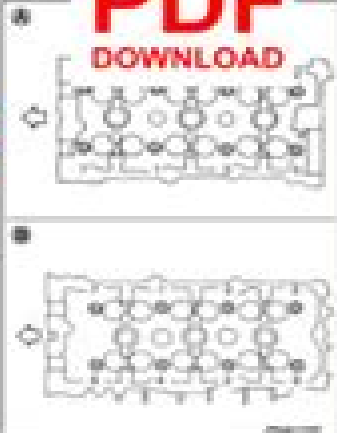
After installing cylinder head, measure distance between front and faces of cylinder block and cylinder head (Bank 1 and Bank 2).

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

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

Install in the reverse order of removal after this step.

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# Nissan Murano Technical Manual

**Jack Gillis**



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