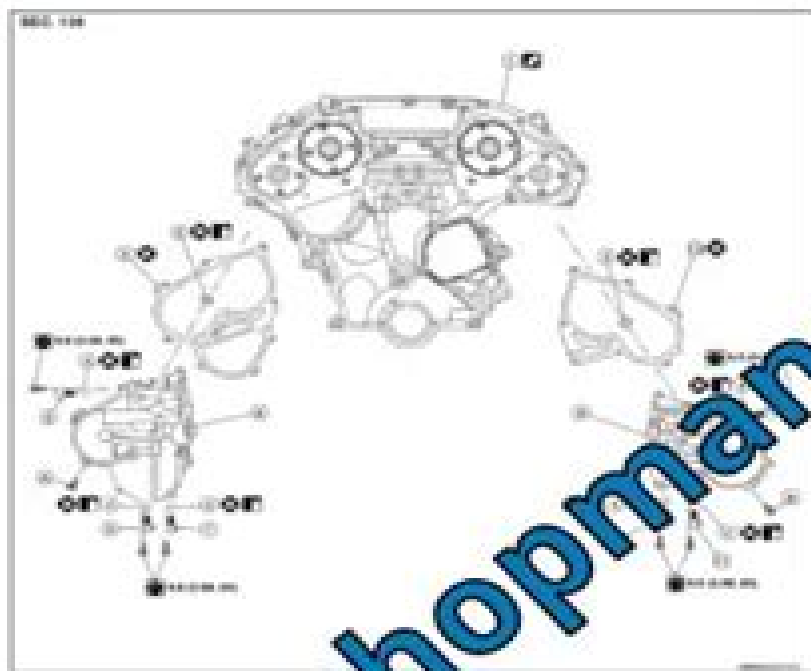


Nissan Murano 2015-2020 Workshop Manual

VALVE TIMING CONTROL

Exploded View



- | | | |
|---|---|---|
| 1. Front timing chain case | 2. O-ring | 3. O-ring |
| 4. O-ring | 5. Valve timing intermediate link control external valve (Bank 1) | 6. Exhaust valve timing control valve (Bank 1) |
| 7. Intake valve timing intermediate link control external valve (Bank 1) | 8. Valve timing control cover (Bank 1) | 9. Valve timing control cover (Bank 2) |
| 10. Intake valve timing intermediate link control external valve (Bank 2) | 11. Exhaust valve timing control valve (Bank 2) | 12. Intake valve timing intermediate link control external valve (Bank 2) |
| 13. O-ring | 14. Refer to INSTALLATION | |

Valve Timing Control Cover (Bank 1)

REMOVAL

1. Disconnect battery negative terminal. Refer to [PG.112, "Removal and Installation"](#).
2. Remove cork support cover. Refer to [2.1.7-30, "Corked Cover"](#).

2. Apply Genuine Silicone RTV Sealant or equivalent (A) to the front cover gasket and the rear oil seal retainer gasket as shown. Refer to [2.1.7-30, "Corked Cover"](#).
- CAUTION:**
- Installation should be done within 5 minutes after applying liquid gasket.
 - Do not fill the engine with oil for at least 30 minutes after the components are installed to allow the sealant to cure.

3. Install the front cover gasket and rear oil seal retainer gasket (B) as shown.
- CAUTION:**
- Do not use any other gasket or rear oil seal retainer gasket.

Apply a bead of sealant to the cylinder block mating surface of the upper oil pan as shown.

- CAUTION:**
- Installation should be done within 5 minutes after applying liquid gasket.
 - Do not fill the engine with oil for at least 30 minutes after the components are installed to allow the sealant to cure.

NOTE:

- Apply liquid gasket to the outside of bolt holes 1, 6, 10, 11 and 12.
- Apply liquid gasket to the inside of the other bolt holes.

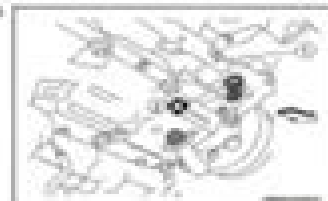
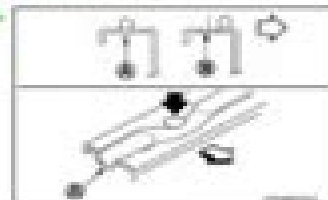
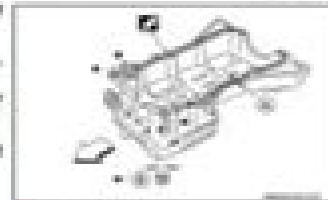
4. Be sure the sealant is applied 5.0 mm (0.197 in) as shown (A). Increase the bead to 4.5 ~ 5.5 mm (0.177 ~ 0.217 in) at the four places indicated (B).
5. Use Genuine Silicone RTV Sealant, or equivalent. Refer to [2.1.7-30, "Corked Cover"](#).

○ A Engine front

5. Install new O-rings (2) on the cylinder block (1) and oil pump body.
- CAUTION:**
- Do not reuse O-rings.

○ B Engine front

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