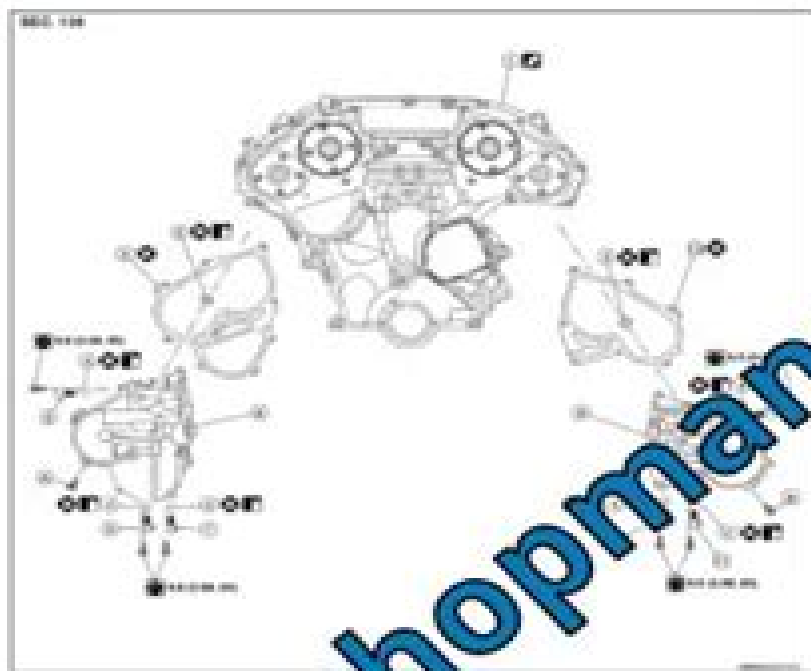


# Nissan Murano 2015-2020 Workshop Manual

## 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 intermediate link control external valve (Bank 2) |
| 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 intermediate link control external valve (Bank 2) | 12. Intake valve timing intermediate link control external valve (Bank 2)         |
| 13. Valve timing control cover (Bank 1)                                   | 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 reuse front cover 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.

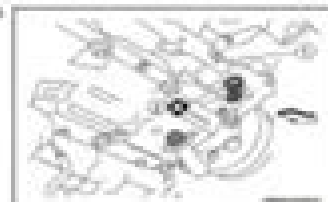
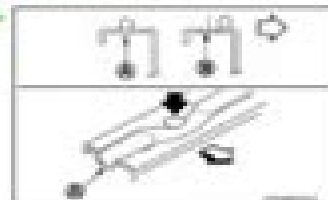
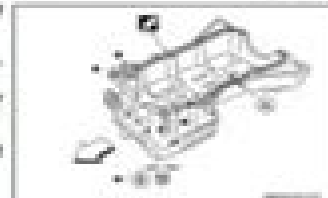
4. Be sure the sealant is applied 5.0 mm (0.197 in) as shown (A). Increase the bead to 4.5 ~ 5.5 mm (0.177 ~ 0.217 in) at the four places indicated (B).
5. Use Genuine Silicone RTV Sealant, or equivalent. Refer to [2.1.7-30, "Corked Cover"](#).

○ 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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**DJ Losen**



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### **Table of Contents 15 Nissan Murano Repair Manual**

1. Understanding the eBook 15 Nissan Murano Repair Manual
  - The Rise of Digital Reading 15 Nissan Murano Repair Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying 15 Nissan Murano Repair Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 15 Nissan Murano Repair Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from 15 Nissan Murano Repair Manual
  - Personalized Recommendations
  - 15 Nissan Murano Repair Manual User Reviews and Ratings
  - 15 Nissan Murano Repair Manual and Bestseller Lists

- 
5. Accessing 15 Nissan Murano Repair Manual Free and Paid eBooks
    - 15 Nissan Murano Repair Manual Public Domain eBooks
    - 15 Nissan Murano Repair Manual eBook Subscription Services
    - 15 Nissan Murano Repair Manual Budget-Friendly Options
  6. Navigating 15 Nissan Murano Repair Manual eBook Formats
    - ePub, PDF, MOBI, and More
    - 15 Nissan Murano Repair Manual Compatibility with Devices
    - 15 Nissan Murano Repair Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of 15 Nissan Murano Repair Manual
    - Highlighting and Note-Taking 15 Nissan Murano Repair Manual
    - Interactive Elements 15 Nissan Murano Repair Manual
  8. Staying Engaged with 15 Nissan Murano Repair Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers 15 Nissan Murano Repair Manual
  9. Balancing eBooks and Physical Books 15 Nissan Murano Repair Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection 15 Nissan Murano Repair Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine 15 Nissan Murano Repair Manual
    - Setting Reading Goals 15 Nissan Murano Repair Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of 15 Nissan Murano Repair Manual
    - Fact-Checking eBook Content of 15 Nissan Murano Repair Manual
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning

- 
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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