

Camshafts

- Engage the rear camshaft sprocket with the camshaft chain as shown.
Timing Marks [A] and R Mark [B]
Cylinder Head Upper Surface [C]
Front [D]
- Pull the front side (inlet side) of the chain taut to install the camshaft.
- Install the rear chain tensioner and check the front/rear chain timing again.
- The timing marks must be aligned with the cylinder head upper surface and positioned as shown after chain tensioner installation.
- Install the rocker cases and rocker case covers (see this chapter).
- Tighten:
Torque - Timing Inspection Cap, Rotor Bolt Cap: 1.5 N·m (0.15 kgf-m, 13 in-lb)

Camshaft Sprocket Installation

- Use the sprocket marked F for the front camshaft [A] and the sprocket marked R for the rear camshaft [B].
- Apply a non-permanent locking agent to the camshaft sprocket bolts and tighten them to the specified torque.
Torque - Camshaft Sprocket Bolts: 15 N·m (1.5 kgf-m, 11 ft-lb)

Camshaft/Rocker Case Wear

- Cut strips of plastigage to journal width. Place a strip on each journal parallel to the camshaft installed in the correct position.
- Measure each clearance between the camshaft and the rocker case using plastigage.

NOTE

Do not turn the camshaft when the plastigage is between the journal and camshaft cap.

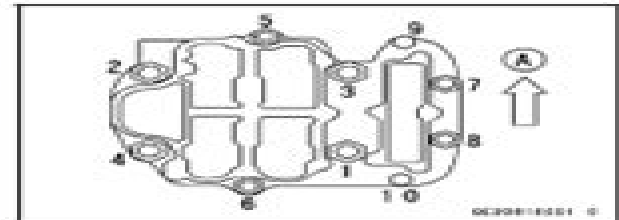
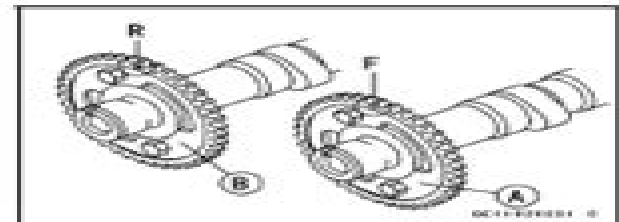
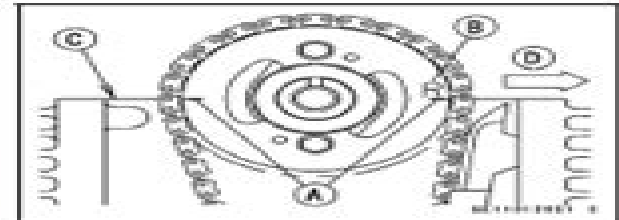
- Apply molybdenum disulfide oil to the threads and seating surface of $\phi 12$ mm nuts and both sides of washers.
- Tighten the rocker case nuts and bolts temporarily following the tightening sequence shown, and then tighten them to the specified torque.

Torque - Rocker Case Nuts $\phi 12$ mm: 78 N·m (8.0 kgf-m, 58 ft-lb)

Rocker Case Nuts $\phi 8$ mm: 25 N·m (2.5 kgf-m, 18 ft-lb)

Rocker Case Bolts $\phi 6$ mm: 8.8 N·m (0.90 kgf-m, 78 in-lb)

Inlet Side [A]



Kawasaki 1600 Engine Manual

Daniel F McAuley



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Table of Contents Kawasaki 1600 Engine Manual

1. Understanding the eBook Kawasaki 1600 Engine Manual
 - The Rise of Digital Reading Kawasaki 1600 Engine Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Kawasaki 1600 Engine 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 Kawasaki 1600 Engine Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kawasaki 1600 Engine Manual
 - Personalized Recommendations

- Kawasaki 1600 Engine Manual User Reviews and Ratings
- Kawasaki 1600 Engine Manual and Bestseller Lists
- 5. Accessing Kawasaki 1600 Engine Manual Free and Paid eBooks
 - Kawasaki 1600 Engine Manual Public Domain eBooks
 - Kawasaki 1600 Engine Manual eBook Subscription Services
 - Kawasaki 1600 Engine Manual Budget-Friendly Options
- 6. Navigating Kawasaki 1600 Engine Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Kawasaki 1600 Engine Manual Compatibility with Devices
 - Kawasaki 1600 Engine Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kawasaki 1600 Engine Manual
 - Highlighting and Note-Taking Kawasaki 1600 Engine Manual
 - Interactive Elements Kawasaki 1600 Engine Manual
- 8. Staying Engaged with Kawasaki 1600 Engine Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kawasaki 1600 Engine Manual
- 9. Balancing eBooks and Physical Books Kawasaki 1600 Engine Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kawasaki 1600 Engine Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Kawasaki 1600 Engine Manual
 - Setting Reading Goals Kawasaki 1600 Engine Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kawasaki 1600 Engine Manual
 - Fact-Checking eBook Content of Kawasaki 1600 Engine 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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