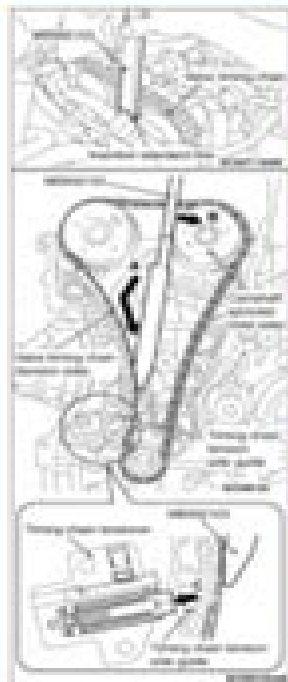


# Mitsubishi Outlander Sport 2013-2015 Workshop Manual



- Caution**
- When inserting special tool chain tension release bar (M80902103) into the timing chain case assembly inside, pay attention to the position of the valve timing chain to avoid damage to the valve timing chain and timing chain tension side guide. Do not insert the special tool M80902103 beyond its insertion guideline.
  - If unlocking the timing chain tensioner is insufficient, the special tool M80902103 cannot be inserted by the insertion guideline. Do not insert the special tool M80902103 forcibly, follow Step 1 again to unlock the timing chain tensioner and insert the special tool M80902103.

With the timing chain tensioner unlocked, insert special tool chain tension release bar (M80902103) from the timing chain case assembly inside along the tension side of the valve timing chain until the insertion guide line aligns with the upper surface of the timing chain case assembly (A in the figure).

- Note**
- With the timing chain tensioner unlocked, insert the special tool M80902103 along the tension side of the valve timing chain, according to the special tool M80902103 top shape. The special tool M80902103 can be inserted smoothly in the position where the special tool M80902103 insertion guideline aligns with the timing chain case assembly top surface (B in the figure), and the spread timing chain tension side guide can be held (C in the figure).

1. With the special tool M80902103 inserted up to the first, press the special tool M80902103 against the camshaft sprocket and spread and hold the timing chain tensioner.

- Caution**
- The valve timing chain is not to be removed from the engine block. After spreading the timing chain, remove the valve timing chain from the engine block.

With the timing chain tensioner spread, lock the special tool M80902103 over the top surface of the camshaft on the exhaust side, and turn the special tool M80902103 to apply slack to the valve timing chain.

## CAMSHAFT BEARING FRONT CAP ASSEMBLY REMOVAL

**Caution** Be careful not to drop the camshaft bearing.

Loosen the camshaft bearing front cap mounting bolts in the order of number shown in the figure, and remove the camshaft bearing front cap assembly.



Camshaft removal steps	
1	Engine upper cover
	Ignition coil (Refer to GROUP 16 - Ignition System, Ignition Coil →)
2	Breather hose
3	PCV hose connection
	Control wiring harness connection
4	Rocker cover assembly
5	Rocker cover gasket
	No. 1 cylinder compression top dead centre setting (only at removal)

# Mitsubishi Outlander 2013 User Manual

**Helming**



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## **Table of Contents Mitsubishi Outlander 2013 User Manual**

1. Understanding the eBook Mitsubishi Outlander 2013 User Manual
  - The Rise of Digital Reading Mitsubishi Outlander 2013 User Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mitsubishi Outlander 2013 User 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 Mitsubishi Outlander 2013 User Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mitsubishi Outlander 2013 User Manual
  - Personalized Recommendations
  - Mitsubishi Outlander 2013 User Manual User Reviews and Ratings
  - Mitsubishi Outlander 2013 User Manual and Bestseller Lists
5. Accessing Mitsubishi Outlander 2013 User Manual Free and Paid eBooks
  - Mitsubishi Outlander 2013 User Manual Public Domain eBooks
  - Mitsubishi Outlander 2013 User Manual eBook Subscription Services
  - Mitsubishi Outlander 2013 User Manual Budget-Friendly Options
6. Navigating Mitsubishi Outlander 2013 User Manual eBook Formats

- ePub, PDF, MOBI, and More
- Mitsubishi Outlander 2013 User Manual Compatibility with Devices
- Mitsubishi Outlander 2013 User Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mitsubishi Outlander 2013 User Manual
  - Highlighting and Note-Taking Mitsubishi Outlander 2013 User Manual
  - Interactive Elements Mitsubishi Outlander 2013 User Manual
- 8. Staying Engaged with Mitsubishi Outlander 2013 User Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mitsubishi Outlander 2013 User Manual
- 9. Balancing eBooks and Physical Books Mitsubishi Outlander 2013 User Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mitsubishi Outlander 2013 User Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mitsubishi Outlander 2013 User Manual
  - Setting Reading Goals Mitsubishi Outlander 2013 User Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mitsubishi Outlander 2013 User Manual
  - Fact-Checking eBook Content of Mitsubishi Outlander 2013 User 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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