

# Mitsubishi Outlander 2007-2013 Workshop Manual

## CRANKSHAFT PULLEY CENTER BOLT/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY REMOVAL

1. Hold the crankshaft pulley with special tools MB990717 and MD990718.
2. Loosen the crankshaft pulley center bolt and remove the crankshaft pulley center bolt, crankshaft pulley washer and crankshaft pulley.

## INSTALLATION SERVICE POINTS

### CRANKSHAFT PULLEY/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY CENTER BOLT INSTALLATION

1. Wipe off the dirt on the crankshaft and the crankshaft pulley as shown in the figure using a rag.
2. Wipe off the dirt on the crankshaft sprocket, the crankshaft pulley washer and the crankshaft pulley as shown in the figure using a rag and degrease them.

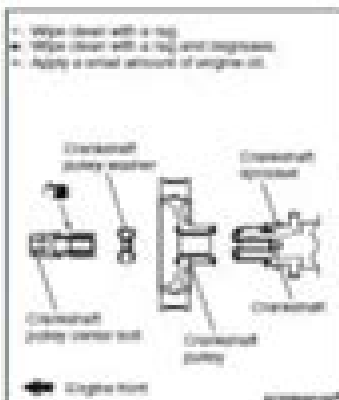
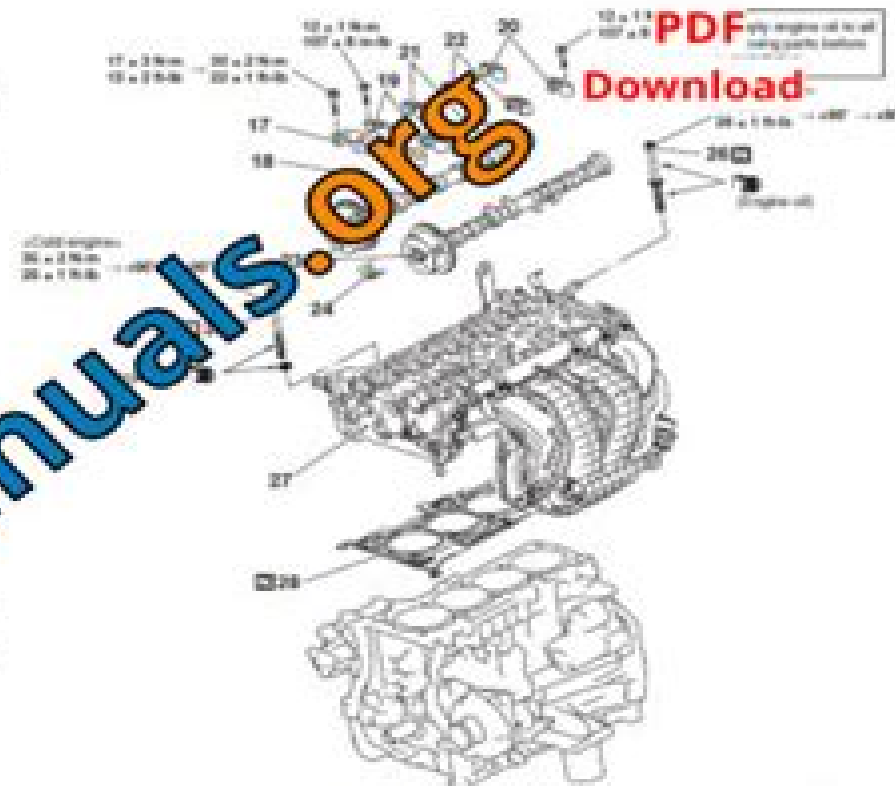
NOTE: Degrease them to prevent slip in the start of the process area, which is covered with oil.

3. Install the crankshaft pulley.
4. Wipe off the dirt on the crankshaft pulley center bolt and the crankshaft pulley center bolt as shown in the figure using a rag.
5. Apply an adequate amount of engine oil to the threads of the crankshaft pulley center bolt and the lower area of the flange.

Hold the crankshaft pulley with special tools MB990717 and MD990718 in the same manner as removal.

7. Tighten the crankshaft pulley center bolt to the specified torque.

Tightening torque: 210 N·m (155 ft·lb)



- Removed steps:
1. Timing chain (Refer to P. 114-67)
  2. Front crankshaft bearing cap assembly
  3. Crankshaft bearing
  4. Crankshaft bearing oil feeding cap
  5. Crankshaft bearing cap
  6. Crankshaft bearing cap

## Required Special Tools:

- MB990717: Engine Hanger

- Removed steps (Continued):
7. Crankshaft thrust bearing cap
  8. Crankshaft and crankshaft sprocket assembly
  9. Crankshaft bearing
  10. Cylinder head bolt
  11. Cylinder head bolt assembly
  12. Cylinder head assembly
  13. Cylinder head gasket

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# Mitsubishi Outlander Complete Workshop Repair Manual 2011 20

**Christian Drosten**



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## **Table of Contents Mitsubishi Outlander Complete Workshop Repair Manual 2011 20**

1. Understanding the eBook Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - The Rise of Digital Reading Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Advantages of eBooks Over Traditional Books
2. Identifying Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - 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 Complete Workshop Repair Manual 2011 20
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Personalized Recommendations
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 User Reviews and Ratings
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 and Bestseller Lists

5. Accessing Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 Free and Paid eBooks
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 Public Domain eBooks
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 eBook Subscription Services
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 Budget-Friendly Options
6. Navigating Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 eBook Formats
  - ePub, PDF, MOBI, and More
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 Compatibility with Devices
  - Mitsubishi Outlander Complete Workshop Repair Manual 2011 20 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Highlighting and Note-Taking Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Interactive Elements Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
8. Staying Engaged with Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
9. Balancing eBooks and Physical Books Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Setting Reading Goals Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - Fact-Checking eBook Content of Mitsubishi Outlander Complete Workshop Repair Manual 2011 20
  - 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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