

# 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

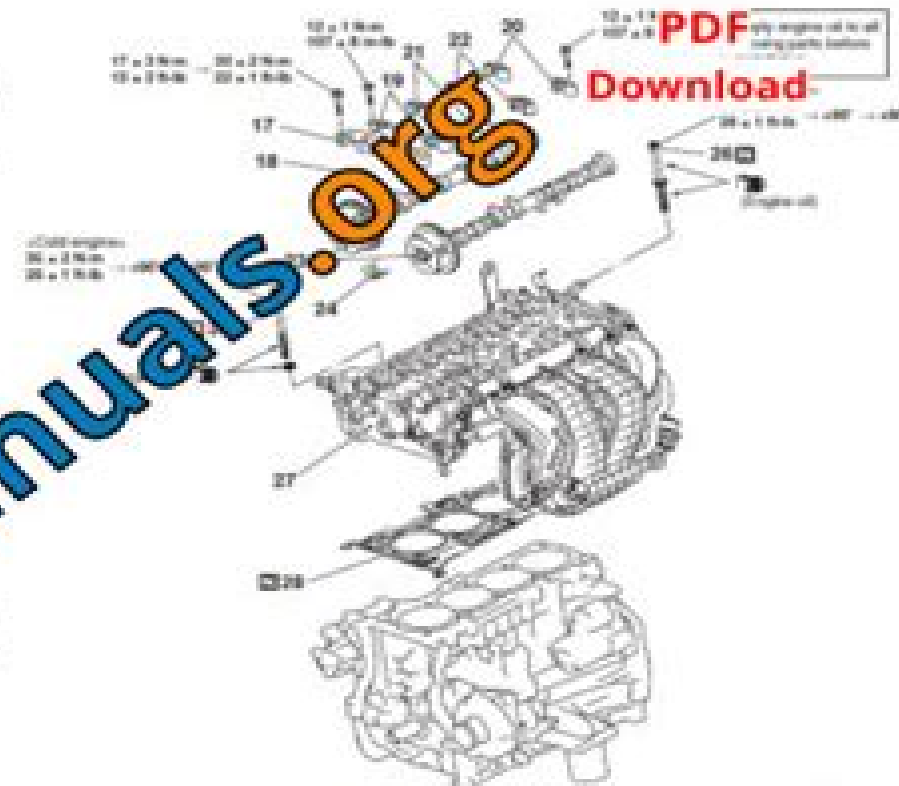
### CRANKSHAFT PULLEY/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY CENTER BOLT INSTALLATION

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 and then degrease them.
- NOTE:** Degrease them to prevent slip in the start of the pressed area, which is caused by dirt.
3. Install the crankshaft pulley.
  4. Wipe off the dirt on the crankshaft pulley center bolt and the crankshaft pulley center bolt washer 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

- MB990718: Engine Hanger

# Mitsubishi Outlander 2005 Workshop Service Repair Manual

**Scott C. Dulebohn**



## **Mitsubishi Outlander 2005 Workshop Service Repair Manual:**

*Mitsubishi Outlander AWD Workshop Manual, ZE-2003, ZE-2004, ZF-2005 ,2004*      *2014.5 MY Outlander Mitsubishi Motors Australia, 2014 MY Outlander and PHEV Mitsubishi Motors Australia,2013*      *2012 M/Y ZH Outlander ,2011 2013 M/Y ZJ Outlander ,2012*      **Outlander Technical Information&body Repair Manual** Mitsubishi Jidōsha Kōgyō Kabushiki Kaisha,2002      *2008 M/Y ZG Outlander ,2008*      *2011 M/Y ZH Outlander ,2010*      **2003 Mitsubishi Outlander Service Manual** Mitsubishi Jidōsha Kōgyō Kabushiki Kaisha,2002      Mitsubishi Eclipse & Eagle Talon 1995 thru 2005 John H Haynes,2008-06-30 Haynes offers the best coverage for cars trucks vans SUVs and motorcycles on the market today Each manual contains easy to follow step by step instructions linked to hundreds of photographs and illustrations Included in every manual troubleshooting section to help identify specific problems tips that give valuable short cuts to make the job easier and eliminate the need for special tools notes cautions and warnings for the home mechanic color spark plug diagnosis and an easy to use index      *2014 M/Y Challenger ,2013*      **2007 M/Y ML Triton Inc. 2WD Workshop Manual ,2006**      **Mitsubishi L 300 Express** GREGORY'S.,1984      *2014 M/Y Triton Mitsubishi Motors Australia,2013*      *Mitsubishi Lancer Automotive Repair Manual* Larry Warren,Tim Imhoff,John Harold Haynes,1998 Series CB CC 1 3L 1 5L 1 6L 1 8L engines      Mitsubishi Eclipse & Eagle Talon Automotive Repair Manual Alan Ahlstrand,John Harold Haynes,2002-01-01 Inside this manual the reader will learn to do routine maintenance tune up procedures engine repair along with aspects of your car such as cooling and heating air conditioning fuel and exhaust emissions control ignition brakes suspension and steering electrical systems wiring diagrams      **Mitsubishi Engine & Transmission Workshop Manual ,1981** Manuals for Mitsubishi Starwagon      Mitsubishi Magna/Dimante 1991 to 2005 Max Ellery,2008-10-15 Mitsubishi Magna Dimante repair manual with step by step instructions including plenty of photographs plus detailed information on 4 cylinder and V6 Mitsubishi Magna sold in America as Diamante from 1991 to 2005 Four chapters cover 2 4 cylinder and 2 V6 plus more chapters on all transmissions axles suspension brakes body wiring schematics problem solving plus more Tune up Maintenance Repairs Mechanical Bodywork Electrical diagrams Specifications Suitable for DIY enthusiast or the mechanic      **Mitsubishi TE/KE Series Magna/Verada Diamante** Mitsubishi Motors Australia. Service Division,1996      **2015 M/Y Lancer** Mitsubishi Motors Australia,2014

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