

Mitsubishi Outlander 2007-2013 Workshop Manual

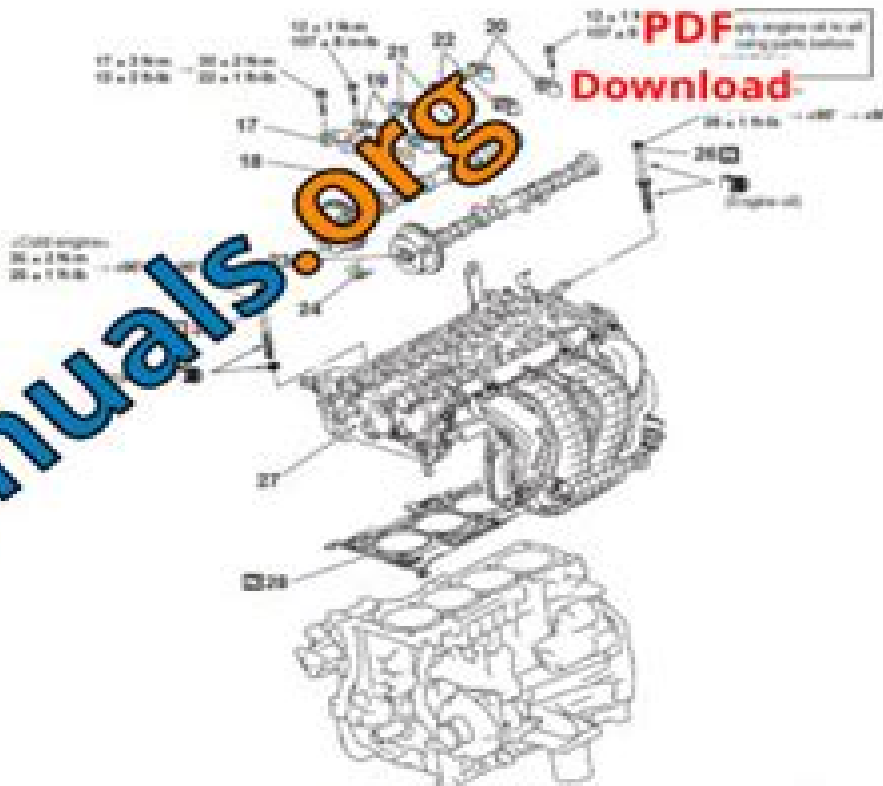
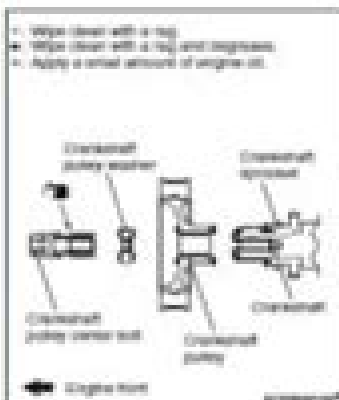
CRANKSHAFT PULLEY CENTER BOLT/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY REMOVAL

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 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.



- 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

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Mitsubishi Outlander Workshop Repair Manual:

Reviewing **Mitsubishi Outlander Workshop Repair Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Mitsubishi Outlander Workshop Repair Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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$$\text{MnO}_4^- + 7\text{H}^+ + 5\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{H}_2\text{O} \quad \text{acidic}$$

$$\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^- \quad \text{basic}$$

$$\text{MnO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O} \quad \text{neutral}$$

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