

# 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.

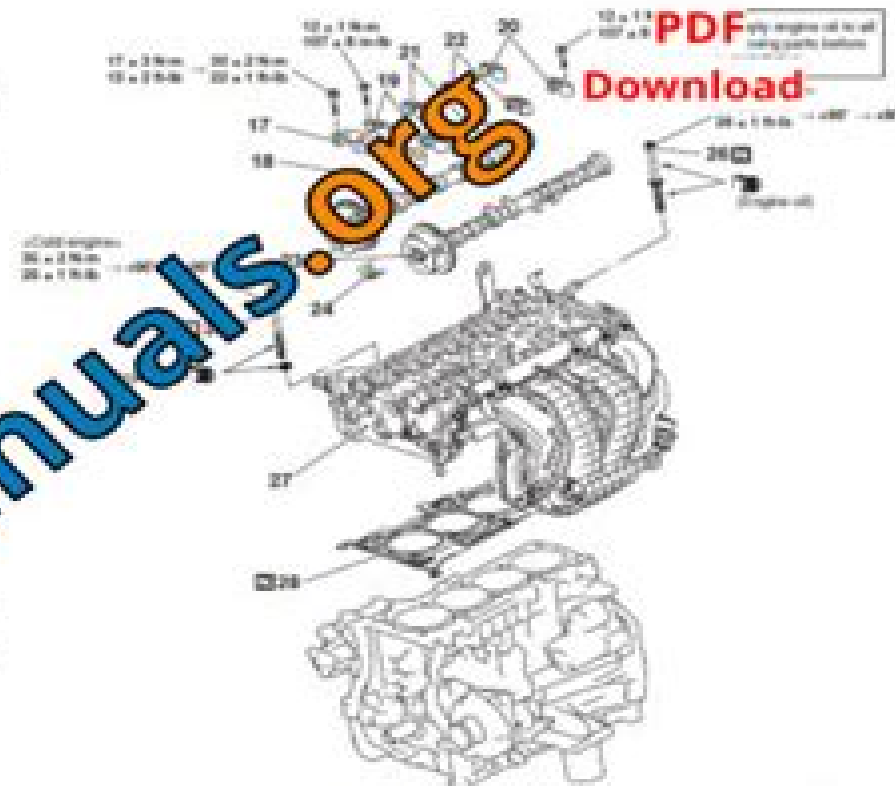
NOTE: Degrease them to prevent slip in the start of the process area, which is covered with oil.

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.lbs)



#### Removal 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

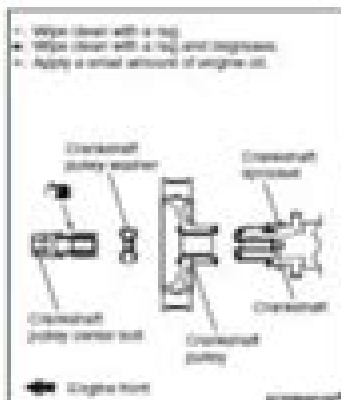
#### Required Special Tools:

- MB990717: Engine Hanger

#### Removal 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

**Petrogav International Oil & Gas  
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web category 1 chronic label elements hazard pictograms signal word s hazard statement warning causes serious eye irritation product name tilex mold mildew remover sds eu precautionary statement very toxic to aquatic life with long lasting effects wash hands thoroughly after handling avoid release to the environment

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