


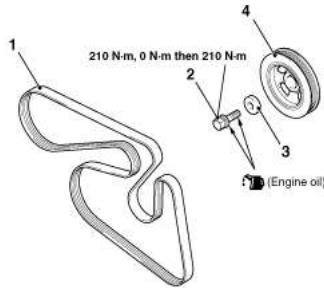
REMOVAL AND INSTALLATION

Pre-removal Operation

- Engine Room Under Cover Front A, B and Engine Room Side Cover (RH) Removal.

Post-installation Operation

- Drive Belt Tension Check (Refer to .
- Engine Room Under Cover Front A, B and Engine Room Side Cover (RH) Installation.



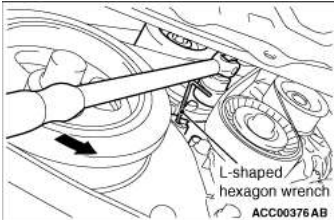
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		Removal steps
<<A>>	>>B<<	1. Drive belt
<>	>>A<<	2. Crankshaft pulley centre bolt
<>	>>A<<	3. Crankshaft pulley washer
<>	>>A<<	4. Crankshaft pulley

REMOVAL SERVICE POINTS

<<A>> DRIVE BELT REMOVAL

To introduce the serpentine drive system with the auto-tensioner, the following operations will be required.



1.

warning

Be sure to set the tool to the hexagonal part securely to prevent the tool from falling off because the tension of the auto-tensioner is high.

Securely set the tool to the hexagonal part of the auto-tensioner.

2. Rotate the auto-tensioner anti-clockwise.

3. Insert the L-shaped hexagon wrench into the auto-tensioner hole to fix the auto-tensioner.

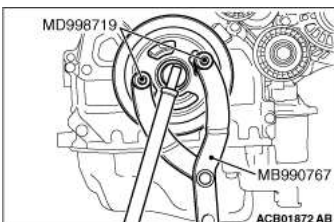
4.

caution

To reuse the drive belt, draw an arrow indicating the rotating direction on the back of the belt using chalk to install the same direction.

Remove the drive belt.

<> CRANKSHAFT PULLEY CENTRE BOLT/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY REMOVAL



1. Use the following special tools to support the crankshaft pulley:

- Front hub and flange yoke holder (MB990767)
- Pin (MD998719)

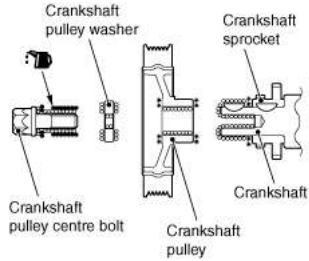
2. Loosen the crankshaft pulley centre bolt and remove the crankshaft pulley washer and crankshaft pulley.

INSTALLATION SERVICE POINTS

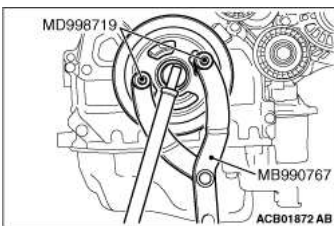
>>A<< CRANKSHAFT PULLEY/CRANKSHAFT PULLEY

WASHER/CRANKSHAFT PULLEY CENTRE BOLT INSTALLATION

- : Wipe clean with a rag.
- * : Wipe clean with a rag and degrease.
- : Apply a small amount of engine oil.



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

note Degrease them to prevent drop in the friction coefficient of the pressed area which is caused by oil adhesion.

2. Install the crankshaft pulley.

3. Wipe off the dirt on the crankshaft pulley washer and the crankshaft pulley centre bolt as shown in the figure using a rag.

4. Apply an adequate and minimum amount of engine oil to the thread of the crankshaft pulley centre bolt and the lower area of the flange.

5. Use the following special tools as during removal to support the crankshaft pulley:

- Front hub and flange yoke holder (MB990767)
- Pin (MD998719)

6. Tighten the crankshaft pulley centre bolt to the specified torque.

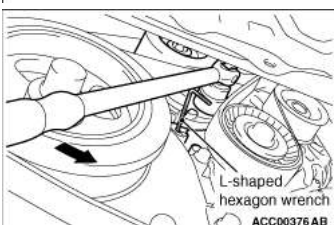
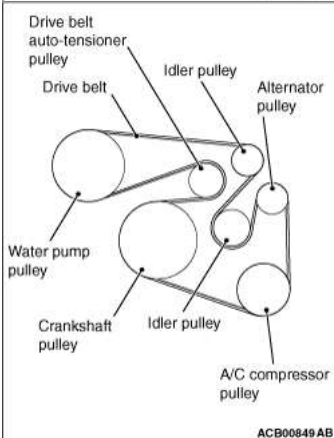
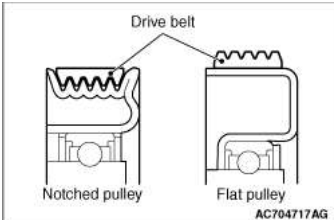
Tightening torque: 210 N·m

7. Loosen the crankshaft pulley centre bolt fully.

8. Tighten the crankshaft pulley centre bolt to the specified torque again.

Tightening torque: 210 N·m

>>B<< DRIVE BELT INSTALLATION



1.

caution

- To reuse the drive belt, install it by aligning the arrow mark on the backside of belt marked at the removal with the rotating direction.
- Check that the notches of the notched pulley and the notches of the drive belt are fit correctly.
- Check that the drive belt is installed in the centre of the flat surface of the flat pulley.

Install the drive belt to each pulley as shown in the figure.

2.

warning

Be sure to set the tool to the hexagonal part securely to prevent the tool from falling off because the tension of the auto-tensioner is high.

Securely set the tool to the hexagonal part of the auto-tensioner.

3. Rotate the auto-tensioner anti-clockwise and remove the L-shaped hexagon wrench fixing the auto-tensioner.

4. Apply tension to the drive belt while slowly turning the auto-tensioner clockwise.



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