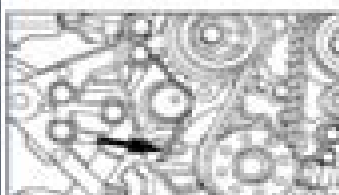
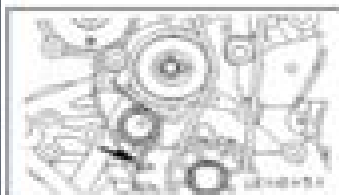


Proton Waja 2000-2011 Engine Manual



REMOVAL SERVICE POINTS

➡➡ TIMING BELT / TENSIONER SPRING / TIMING BELT TENSIONER REMOVAL

- (1) Using pliers, grip the tensioner spring projection (marked "A" in the diagram) and remove it from the oil pump case stopper. Then, remove the tensioner spring.
- (2) Remove the timing belt tensioner.
- (3) If the timing belt is to be reused, check an arrow on the belt to indicate the direction of rotation before removing it. This will ensure the timing belt is fixed correctly when reused.

➡➡ CAMSHAFT SPROCKET BOLT REMOVAL

- (1) Using the special tools shown in the illustration, lock the camshaft sprocket in position.
- (2) Loosen the camshaft sprocket bolt.

➡➡ TIMING BELT REMOVAL

- (1) If the timing belt is to be reused, it is necessary to install it in the same direction as it was before. Mark an arrow, but shows the direction of rotation on the back cover of the timing belt with chalk, etc.

- (2) Using pliers and the key, remove the tensioner spring at the illustrated position, and remove the spring.

Caution
Do not cause the timing belt tensioner spring to give damage to the timing belt.

- (3) Remove the timing belt tensioner securing bolt.
- (4) Remove the timing belt tensioner in the direction shown.
- (5) Remove the timing belt.

REMOVAL AND INSTALLATION -DOHC-GDI-



Removal steps

1. Oil level gauge
2. Engine hanger
3. Oil level gauge galle
4. Crank
5. Drive belt
6. Water pump pulley
7. Alternator drive
8. Alternator assembly
9. Camshaft bolt
10. Camshaft pulley

11. Ignition coil
12. Spark plug
13. Cam position sensor
14. Cam position sensor support
15. Cam position sensing cylinder

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Leslie Stephen, Sir Sidney Lee



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