

Last Modified: 9-29-2009	5.6 A	From: 200501
Model Year: 2006	Model: Hiace	Doc ID: RM00000123D000X
Title: 5L-E ENGINE MECHANICAL: CAMSHAFT: REMOVAL (2006-2010 Hiace)		

REMOVAL

1. REMOVE TIMING BELT

INFO

2. SEPARATE AIR CLEANER HOSE NO.2

INFO

3. REMOVE INTAKE AIR CONNECTOR SUB-ASSEMBLY

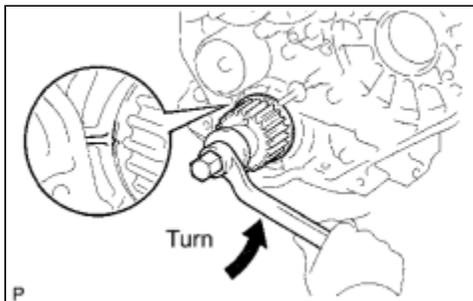
INFO

4. REMOVE CYLINDER HEAD COVER SUB-ASSEMBLY

INFO

5. REMOVE CAMSHAFT TIMING PULLEY

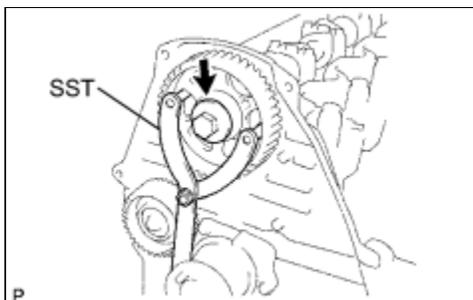
(a) Set the No.1 cylinder to approx. 90° BTDC/compression.



HINT:

Set the No.1 cylinder to 90° BTDC/compression to avoid interference with the piston top and valve head.

(1) Using the crankshaft pulley bolt, turn the crankshaft 90° counterclockwise, and put the timing mark of the crankshaft timing pulley with the protrusion of the timing gear case.



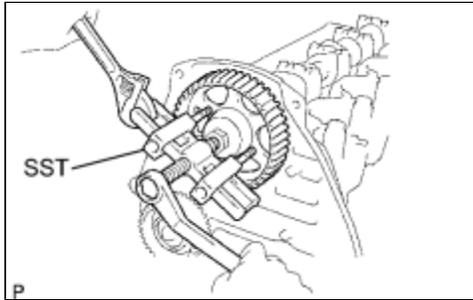
(b) Using SST, loosen the pulley bolt.

SST: 09960-10010

09962-01000

09963-01000

(c) Using SST, separate the timing pulley from the camshaft.

**SST: 09950-50013**

09951-05010

09952-05010

09953-05010

09954-05021

(d) Remove the pulley bolt and timing pulley.

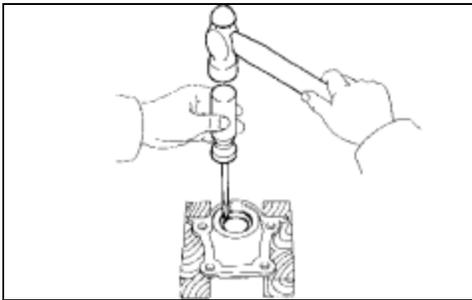
(e) Remove the timing gear woodruff key.

6. REMOVE TIMING BELT COVER NO.2

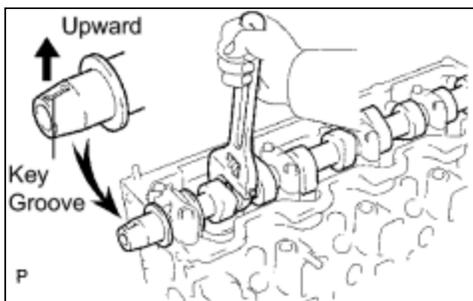
(a) Remove the 4 bolts and timing belt cover.

7. REMOVE CAMSHAFT OIL SEAL RETAINER

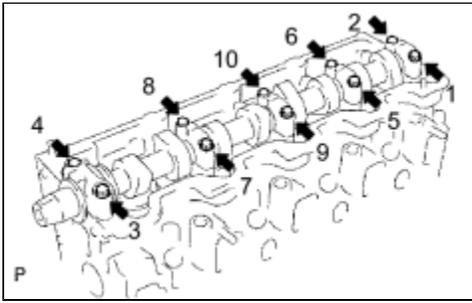
(a) Remove the 4 bolts, retainer and gasket.

8. REMOVE OIL SEAL RETAINER, NO.2 OIL SEAL

(a) Using a screwdriver and hammer, tap out the oil seal.

9. REMOVE CAMSHAFT

(a) Turn the camshaft with a wrench so that the key groove faces upward.



(b) Uniformly loosen and remove the 10 bearing cap bolts, in several steps, in the sequence shown.

(c) Remove the 5 bearing caps and camshaft.

