

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

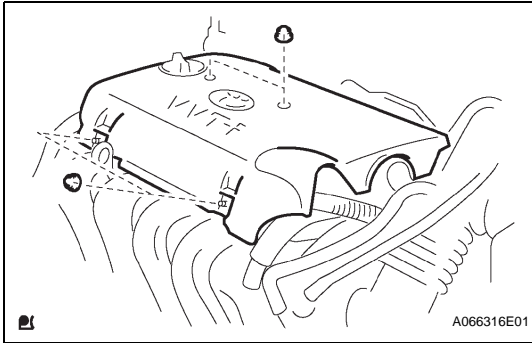
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE FRONT WHEEL RH**

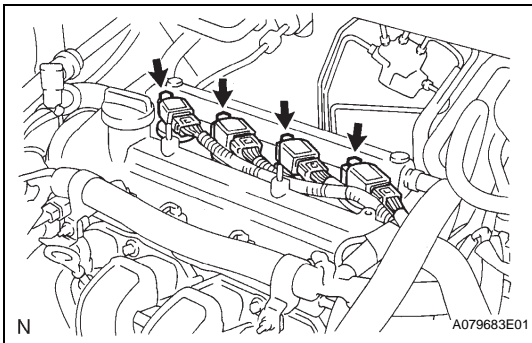
3. **REMOVE NO. 2 CYLINDER HEAD COVER**

(a) Remove the 4 nuts and No. 2 cylinder head cover.



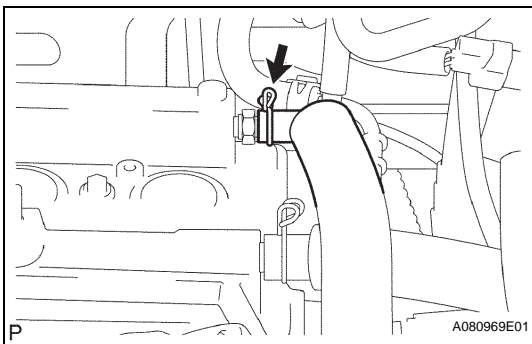
4. **REMOVE IGNITION COIL**

(a) Remove the 4 bolts and pull out the 4 ignition coils.



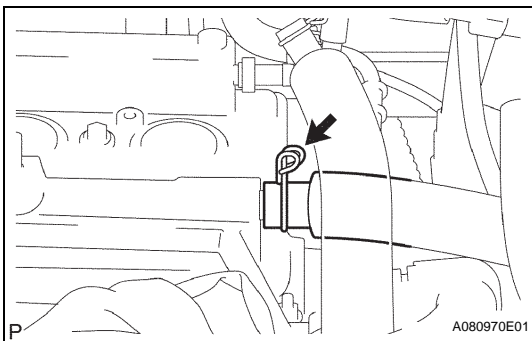
5. **REMOVE VENTILATION HOSE**

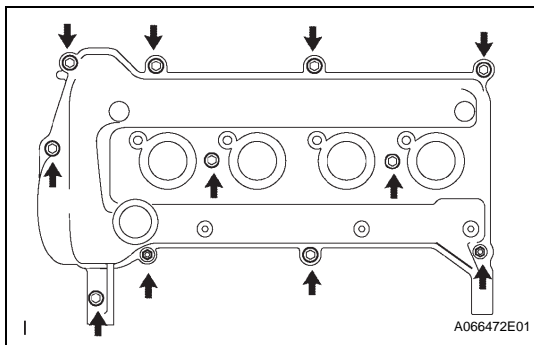
(a) Disconnect the ventilation hose from the cylinder head cover.



6. **REMOVE NO. 2 VENTILATION HOSE**

(a) Disconnect the No. 2 ventilation hose from the cylinder head cover.



**7. REMOVE CYLINDER HEAD COVER**

(a) Remove the 9 bolts, 2 nuts and cylinder head cover.

8. REMOVE GENERATOR V BELT (See page EM-7)**9. REMOVE GENERATOR (See page CH-9)****10. REMOVE ENGINE UNDER COVER RH****11. DRAIN ENGINE OIL (See page LU-3)****12. DRAIN ENGINE COOLANT (See page CO-5)****13. REMOVE VANE PUMP V BELT (See page EM-7)****14. REMOVE WATER PUMP PULLEY (See page EM-92)****15. REMOVE WATER PUMP (See page EM-93)****16. REMOVE CRANKSHAFT PULLEY**

(a) Set the No. 1 cylinder to the TDC/compression.

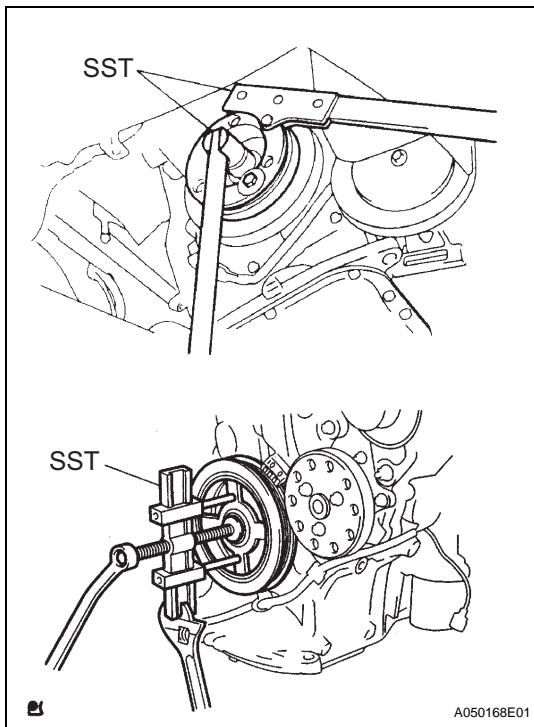
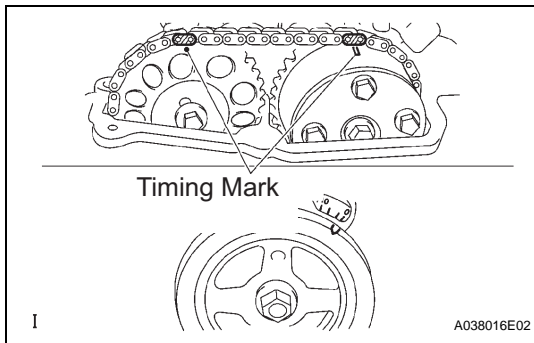
- (1) Turn the crankshaft pulley until its timing notch and the timing mark 0 of the chain cover are aligned.
- (2) Check that both timing marks on the camshaft timing sprocket and the camshaft timing gear are facing upward as shown in the illustration. If not, turn the crankshaft 1 complete revolution (360°) and align the marks as above.

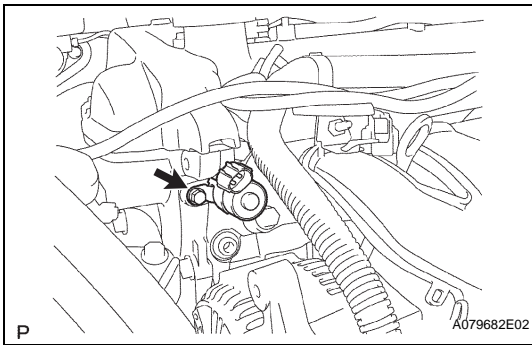
(b) Using SST, remove the pulley bolt.

SST 09213-58012 (91111-50845), 09330-00021

If necessary, remove the pulley with SST.

SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

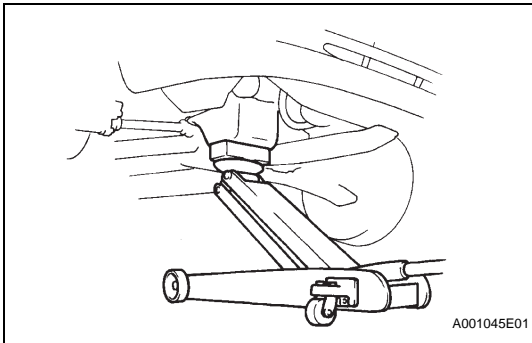




17. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY

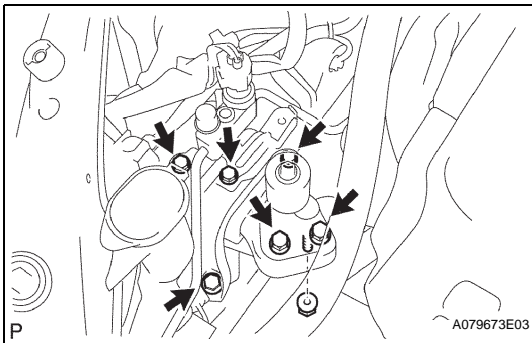
- (a) Disconnect the oil control valve connector.
- (b) Remove the bolt, oil control valve and O-ring.

18. REMOVE CRANKSHAFT POSITION SENSOR (See page [ES-338](#))

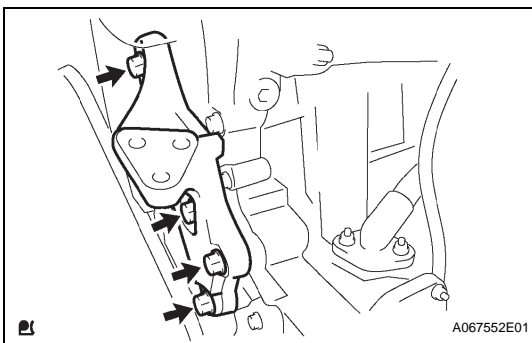


19. REMOVE ENGINE MOUNTING BRACKET INSULATOR RH

- (a) Place a wooden block on a jack underneath the engine.



- (b) Remove the bolt which is used to fix the liquid tube to the mounting insulator RH.
- (c) Remove the 5 bolts and nut, and then remove the mounting insulator RH.



20. REMOVE ENGINE MOUNTING BRACKET RH

- (a) Remove the 4 bolts and mounting bracket RH.

21. REMOVE TIMING CHAIN COVER (See page [EM-93](#))

22. REMOVE OIL PUMP SEAL (See page [EM-107](#))

23. REMOVE NO. 1 CHAIN TENSIONER

- (a) Remove the 2 bolts and chain tensioner.

NOTICE:

- Do not rotate the crankshaft with the chain tensioner removed.
- When rotating the camshaft with the timing chain removed, rotate the crankshaft counterclockwise 40° from the TDC and align the oil jet hole with the paint mark to prevent the pistons from coming into contact with the valves.

24. REMOVE CHAIN TENSIONER SLIPPER

- (a) Remove the bolt and tensioner slipper.

25. REMOVE NO. 1 CHAIN VIBRATION DAMPER

- (a) Remove the 2 bolts and chain vibration damper.

