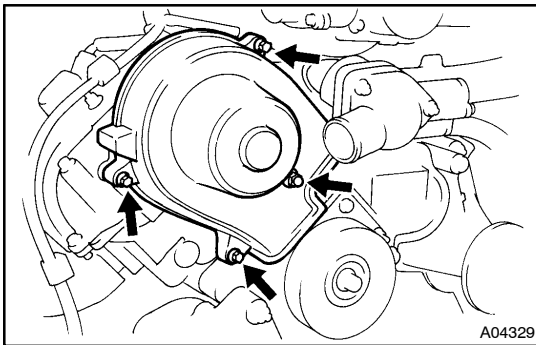
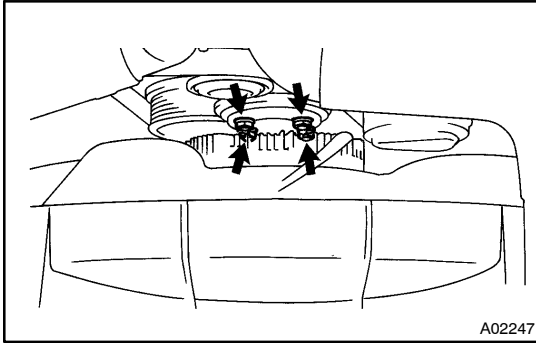


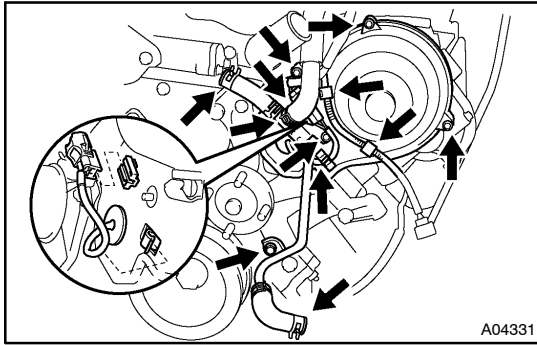
REMOVAL

1. **REMOVE OIL PAN PROTECTOR**
2. **REMOVE ENGINE UNDER COVER**
3. **DRAIN ENGINE COOLANT**
4. **REMOVE BATTERY CLAMP COVER**
5. **REMOVE V-BANK COVER**
 - (a) Remove the fuel return hose from the V-bank cover.
 - (b) Remove the 2 bolt, 2 cap nuts and V-bank cover.
6. **REMOVE AIR CLEANER AND INTAKE AIR CONNECTOR ASSEMBLY**
7. **REMOVE DRIVE BELT, FAN, FLUID COUPLING AND FAN PULLEY**
 - (a) Loosen the 4 nuts holding the fluid coupling to the fan bracket.
 - (b) Remove the generator drive belt.
(See page [CH-7](#))
 - (c) Remove the 4 nuts, the fan, the fluid coupling assembly and the fan pulley.
8. **REMOVE RADIATOR ASSEMBLY**
(See page [CO-17](#))
9. **REMOVE DRIVE BELT IDLER PULLEY**
Remove the pulley bolt, the cover plate and the idler pulley.

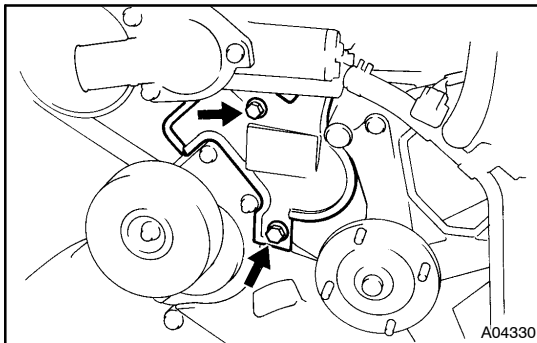


10. REMOVE RH NO.3 TIMING BELT COVER

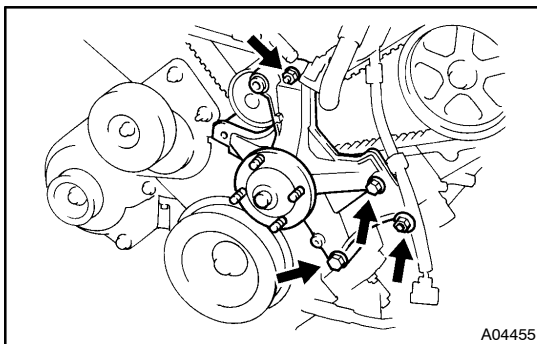
Remove the 3 bolts, the nut and the RH No.3 timing belt cover.

**11. REMOVE LH NO.3 TIMING BELT COVER**

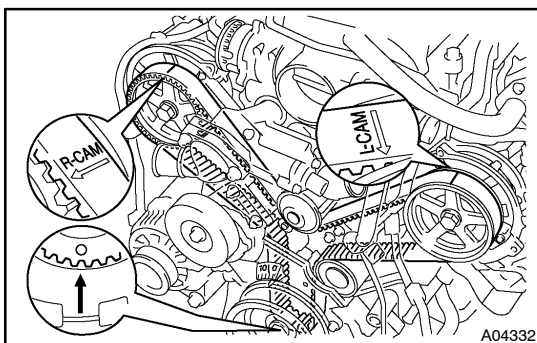
- (a) Disconnect the engine wire from the 2 wire clamps.
- (b) Remove the 4 bolts and the nut.
- (c) Disconnect the camshaft position sensor wire from the wire clamp on the LH No.3 timing belt cover.
- (d) Disconnect the sensor connector from the connector bracket.
- (e) Disconnect the camshaft position sensor connector.
- (f) Remove the wire grommet from the LH No.3 timing belt cover.
- (g) Remove the LH No.3 timing belt cover.
- (h) Remove the oil cooler pipe and the 2 bolts.

**12. REMOVE NO.2 TIMING BELT COVER**

Remove the 2 bolts and the No.2 timing belt cover.

13. DISCONNECT A/C COMPRESSOR FROM ENGINE
(See page [EM-77](#))**14. REMOVE FAN BRACKET**

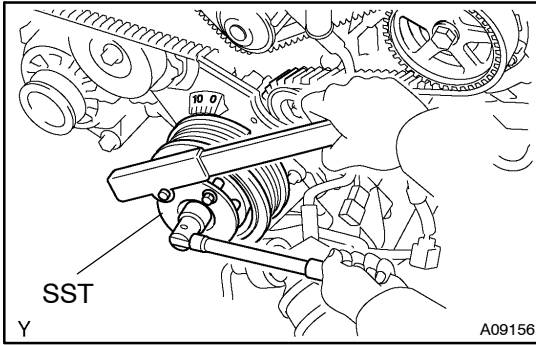
Remove the 2 bolts, the 2 nuts and the fan bracket.

**15. IF RE-USING TIMING BELT, CHECK INSTALLATION MARKS ON TIMING BELT**

Check that there are 3 installation marks on the timing belt as turning the crankshaft pulley as shown in the illustration.

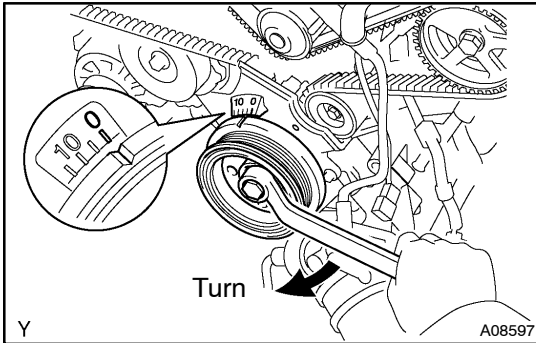
HINT:

If the installation marks are disappeared, place a new installation mark on the timing belt before removing each part.

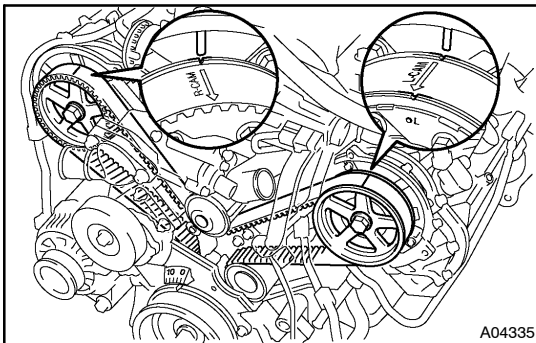
**16. LOOSEN CRANKSHAFT PULLEY BOLT**

Using SST, loosen the pulley bolt.

SST 09213-70011 (90105-70020),
09330-00021

**17. SET NO.1 CYLINDER TO TDC/COMPRESSION**

- (a) Turn the crankshaft pulley and align its groove with the timing mark "0" of the No.1 timing belt cover.



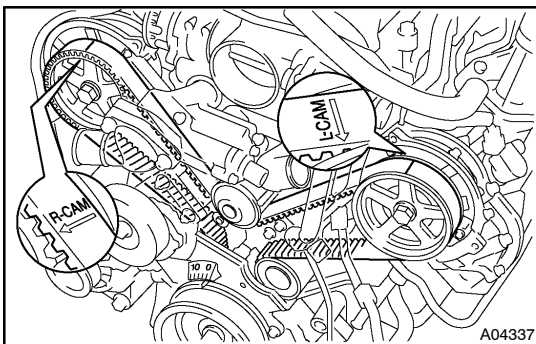
- (b) Check that the timing marks of the camshaft timing pulleys and that of the timing belt rear plates aligned.

If not, turn the crankshaft 1 revolution (360°).

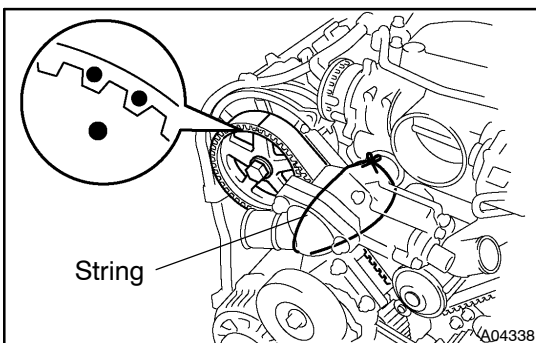
- (c) Remove the crankshaft pulley bolt.

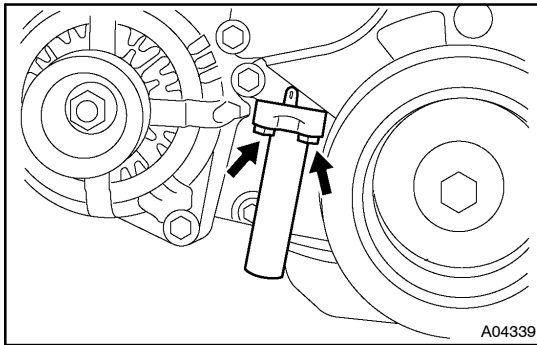
NOTICE:

Do not turn the crankshaft pulley.

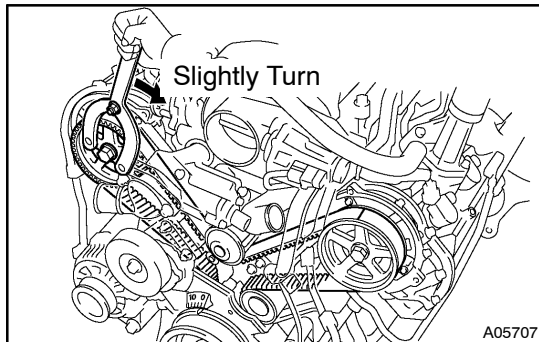
**18. REMOVE TIMING BELT TENSIONER****HINT:**

- When re-using timing belt:
If the installation marks are disappeared, place 2 new installation marks on the timing belt to match the timing marks of the camshaft timing pulleys before the removal.
- When replacing timing belt tensioner only:
To avoid meshing of the timing pulley and the timing belt, secure one of them with string, and then place match-marks on the timing belt and the RH camshaft timing pulley.





Alternately loosen the 2 bolts, and remove the belt tensioner and the dust boot.

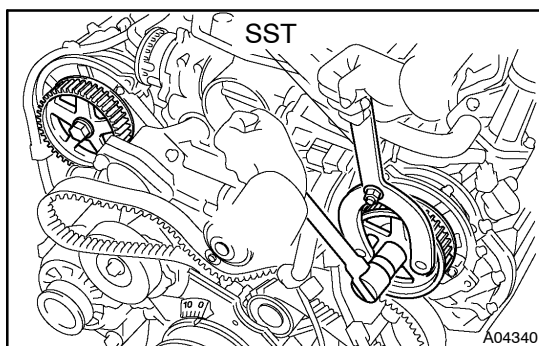


19. DISCONNECT TIMING BELT FROM CAMSHAFT TIMING PULLEYS

- (a) Using SST, loosen the tension spring between the LH and RH camshaft timing pulleys by slightly turning the LH camshaft timing pulley clockwise.

SST 09960-10010 (09962-01000, 09963-01000)

- (b) Disconnect the timing belt from the camshaft timing pulleys.



20. REMOVE CAMSHAFT TIMING PULLEYS

Using SST, remove the bolt and the timing pulley. Remove the 2 timing pulleys.

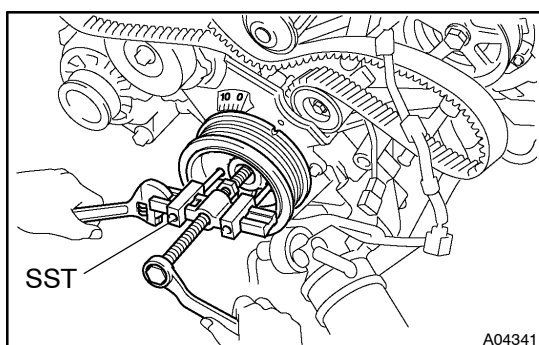
SST 09960-10010 (09962-01000, 09963-01000)

21. REMOVE GENERATOR

(See page [CH-7](#))

22. REMOVE DRIVE BELT TENSIONER

Remove the bolt, 2 nuts and the belt tensioner.



23. REMOVE CRANKSHAFT PULLEY

Using SST, remove the crankshaft pulley.

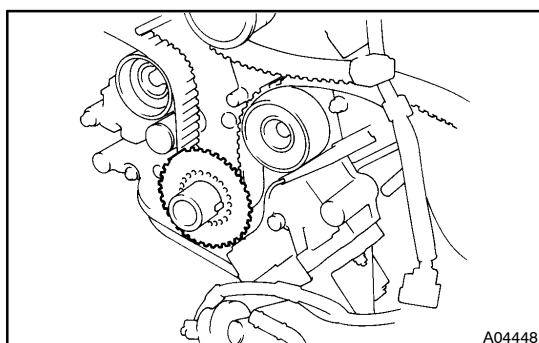
SST 09950-50013 (09951-05010, 09952-05010, 09953-05010, 09954-05011, 09953-05020, 09954-05021)

NOTICE:

Do not turn the crankshaft pulley.

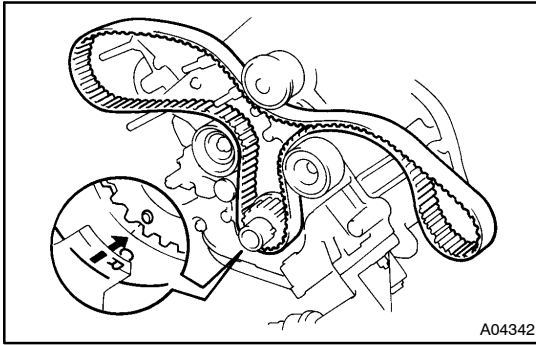
24. REMOVE NO.1 TIMING BELT COVER

Remove the 4 bolts and the timing belt cover.

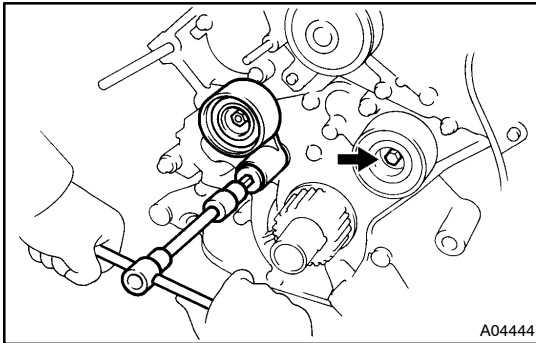


25. REMOVE TIMING BELT GUIDE

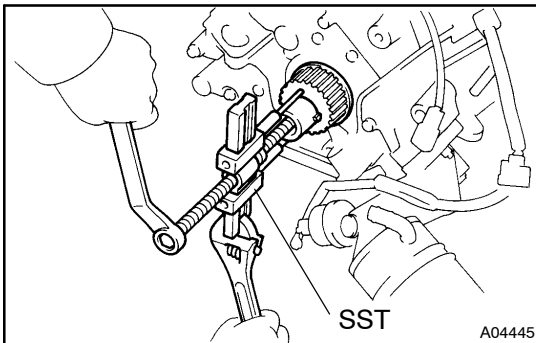
26. REMOVE TIMING BELT COVER SPACER

**27. REMOVE TIMING BELT****HINT:**

If re-using the belt and the installation mark is disappeared from it, place a new installation mark on the timing belt to the match the dot mark on the crankshaft timing pulley.

**28. REMOVE NO.1 IDLER PULLEY AND NO.2 IDLER PULLEY**

- (a) Using a 10 mm hexagon wrench, remove the bolt, the No.1 idler pulley and the plate washer.
- (b) Remove the bolt and the No.2 idler pulley.

**29. REMOVE CRANKSHAFT TIMING PULLEY**

Using SST, remove the timing pulley.

SST 09950-50013 (09951-05010, 09952-05010, 09953-05010, 09953-05020, 09954-05011, 09954-05021)

NOTICE:

Do not turn the timing pulley.