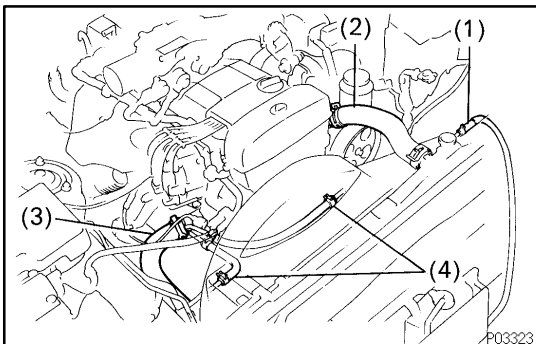
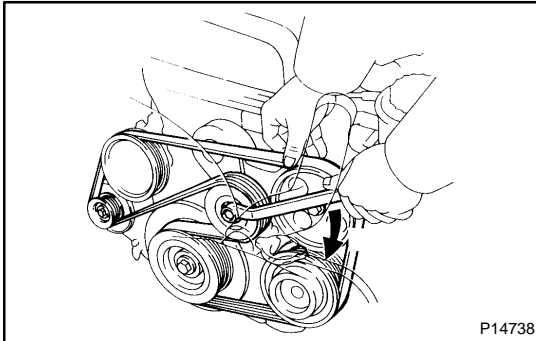


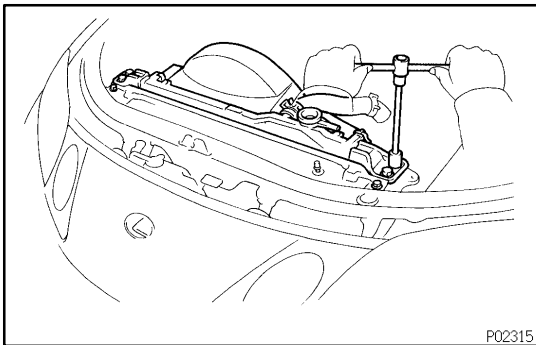
REMOVAL

1. REMOVE ENGINE UNDER COVER
2. DRAIN ENGINE COOLANT
3. REMOVE BATTERY AND BATTERY TRAY
4. REMOVE DRIVE BELT, FAN, FLUID COUPLING ASSEMBLY AND WATER PUMP PULLEY
 - (a) Loosen the 4 nuts holding the fluid coupling to the water pump.
 - (b) Loosen the drive belt tension by turning the drive belt tensioner clockwise, and remove the drive belt.
 - (c) Remove the 4 nuts, the fan, fluid coupling assembly and water pump pulley.

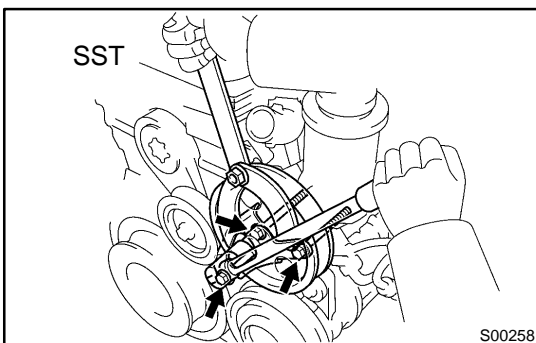


5. REMOVE PS PUMP AND FRONT BRACKET

- (a) Disconnect these hoses:
 - (1) Radiator reservoir hose from radiator
 - (2) Upper radiator hose from water outlet
 - (3) Lower radiator hose from water inlet
 - (4) A/T:
2 oil cooler hose from radiator.
Plug the hose ends.



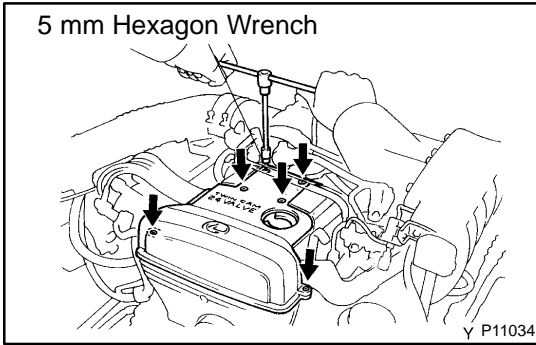
- (b) Remove the 2 bolts, screw and upper radiator support. Remove the 2 upper radiator supports.
- (c) Lift out the radiator assembly.
- (d) Remove the 2 lower radiator supports.



6. REMOVE PS PUMP PULLEY AND FRONT BRACKET

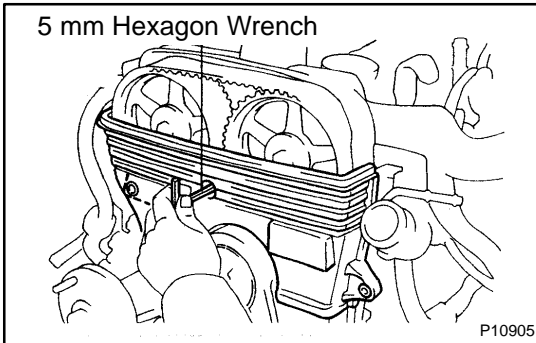
- (a) Using SST to hold the pulley, remove the nut and pulley. SST 09960-10010 (09962-01000, 09963-01000)
- (b) Remove the 3 bolts, plate washer and pump front bracket.

5 mm Hexagon Wrench

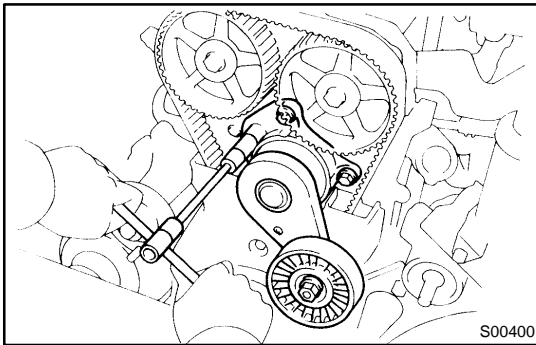
**7. REMOVE NO.3 TIMING BELT COVER**

- Remove the oil filler cap.
- Using a 5 mm hexagon wrench, remove the 6 bolts and belt cover.

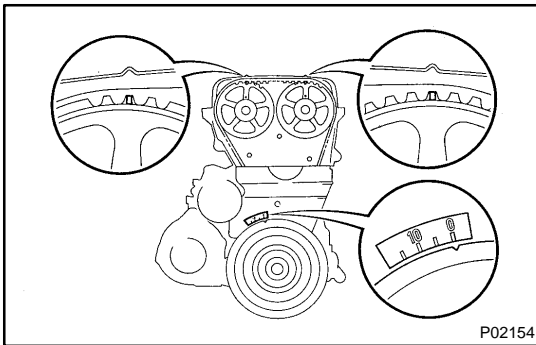
5 mm Hexagon Wrench

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

Using a 5 mm hexagon wrench, remove the 3 bolts, timing belt cover and gasket.

**9. REMOVE DRIVE BELT TENSIONER**

Remove the 3 bolts and tensioner.

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

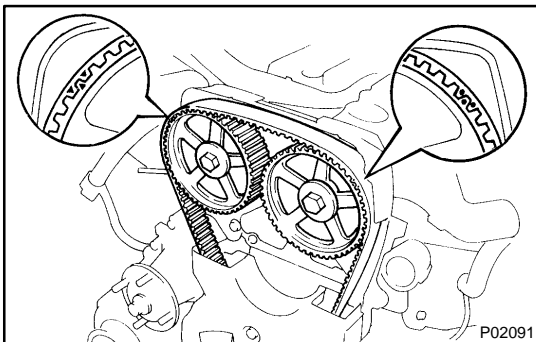
- Turn the crankshaft pulley, and align its groove with timing mark "0" of the No.1 timing belt cover.

NOTICE:

Always turn the crankshaft clockwise.

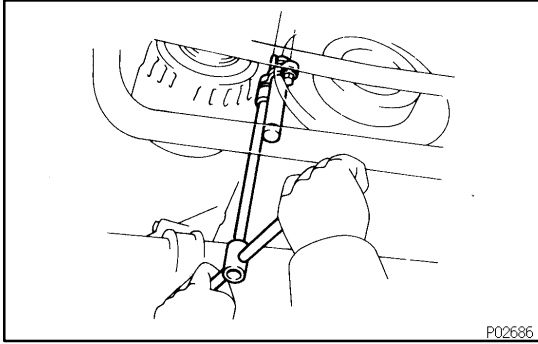
- Check that the timing marks of the camshaft timing pulleys are aligned with the timing marks of the No.4 timing belt cover.

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

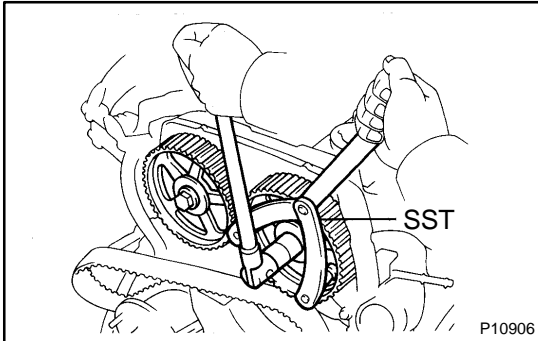
**11. REMOVE TIMING BELT FROM CAMSHAFT TIMING PULLEYS****HINT:**

Re-using timing belt:

Place matchmarks on the timing belt and camshaft timing pulleys as shown in the illustration.



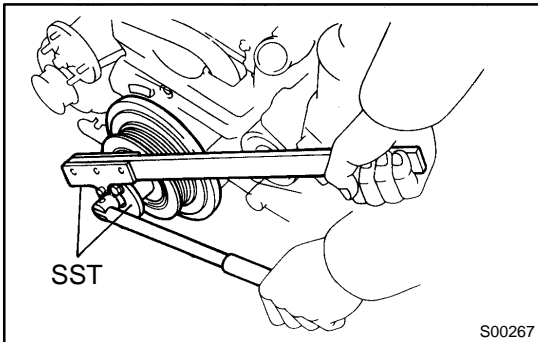
- (a) Alternately loosen the 2 bolts, and remove them, the tensioner and dust boot.
- (b) Disconnect the timing belt from the camshaft timing pulleys.



12. REMOVE CAMSHAFT TIMING PULLEY

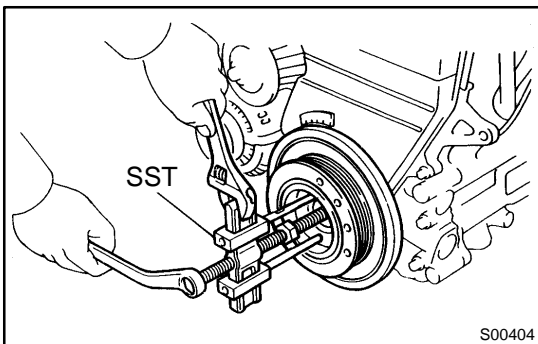
Using SST to hold the pulley, remove the pulley bolt. remove both timing pulleys.

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

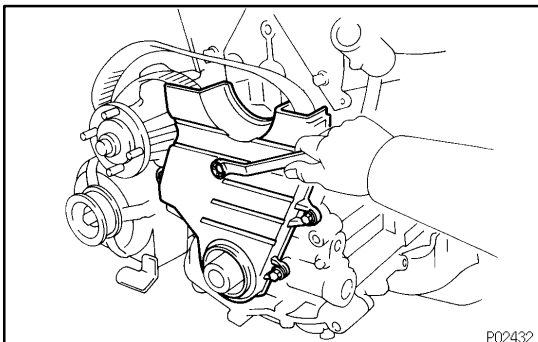


13. REMOVE CRANKSHAFT PULLEY

- (a) Using SST, loosen the pulley bolt.
SST 09213-70010, 09330-00021
- (b) Remove the SST and pulley bolt.



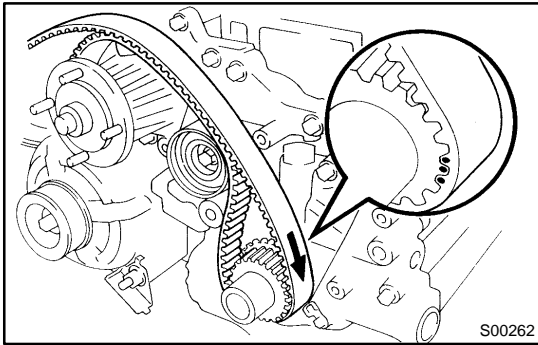
- (c) Using SST, remove the crankshaft pulley.
SST 09950-50010 (09951-05010, 09952-05010, 09953-05010, 09953-05020, 09954-05030)



14. REMOVE NO.1 TIMING BELT COVER

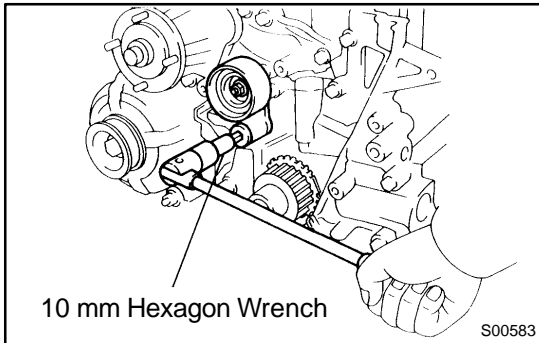
Remove the 5 bolts, timing belt cover and gasket.

15. REMOVE TIMING BELT GUIDE

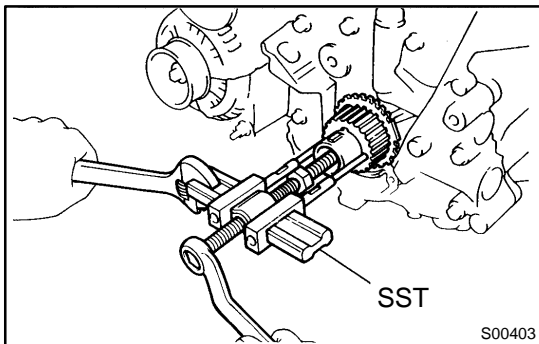
**16. REMOVE TIMING BELT****HINT:**

When re-using timing belt:

Draw an arrow on the timing belt in the direction of engine revolution, and place matchmarks on the timing belt and crankshaft timing pulley.

**17. REMOVE IDLER PULLEY**

Using a 10 mm hexagon wrench, remove the pivot bolt, plate washer and idler pulley.

**18. REMOVE CRANKSHAFT TIMING PULLEY**

(a) Remove the bolt and timing belt plate.

(b) Remove the crankshaft timing pulley.

If the pulley cannot be removed by hand, use SST to remove the crankshaft timing pulley.

SST 09950-50010 (09951-05010, 09952-05010, 09953-05010, 09953-05020, 09954-05010)

NOTICE:

Do not scratch the sensor part the crankshaft timing pulley.