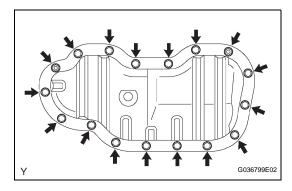
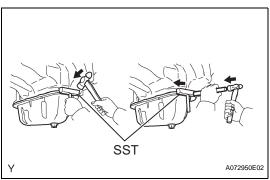
REMOVAL

- 1. **DISCHARGE FUEL SYSTEM PRESSURE** (See page FU-1)
- 2. REMOVE BATTERY
- 3. DRAIN ENGINE COOLANT (See page CO-3)
- 4. DRAIN ENGINE OIL (See page LU-4)
- 5. REMOVE ENGINE ASSEMBLY (See page EM-186)
- 6. REMOVE OIL LEVEL GAGE GUIDE
 - (a) Remove the oil level gauge.
 - (b) Remove the bolt and pull out the oil level gauge guide.
 - (c) Remove the O-ring from the oil level gauge guide.
- 7. REMOVE WATER INLET (See page CO-9)
- 8. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY (See page EM-44)
- 9. REMOVE NO.2 IDLER PULLEY SUB-ASSEMBLY
 - (a) Remove the 2 bolts, then remove the idler pulley No. 2.
- 10. REMOVE NO.1 IDLER PULLEY SUB-ASSEMBLY
 - (a) Remove the bolt, then remove the idler pulley No. 1.
- 11. REMOVE CRANKSHAFT PULLEY (See page EM-45)
- 12. REMOVE NO.2 OIL PAN SUB-ASSEMBLY
 - (a) Remove the 15 bolts and 2 nuts.



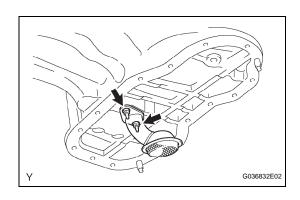


(b) Insert the blade of SST between the oil pan and oil pan No. 2, cut off applied sealer and remove the oil pan No. 2.

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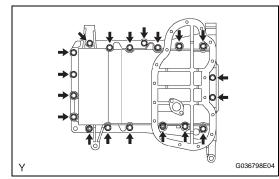
NOTICE:

Be careful not to damage the contact surfaces of the oil pan and oil pan No. 2



13. REMOVE OIL STRAINER SUB-ASSEMBLY

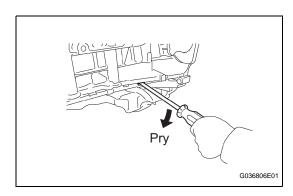
(a) Remove the 2 nuts, then remove the oil strainer and gasket.



14. REMOVE OIL PAN SUB-ASSEMBLY

(a) Remove the 17 bolts and 2 nuts.





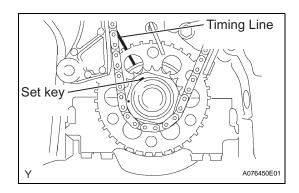
(b) Using a screwdriver, remove the oil pan by prying between the oil pan and cylinder block.

NOTICE:

Be careful not to damage the contact surfaces of the cylinder block and oil pan.

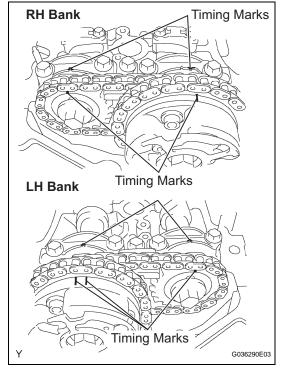
- 15. REMOVE INTAKE AIR SURGE TANK (See page EM57)
- 16. REMOVE IGNITION COIL ASSEMBLY (See page IG-7)
- 17. REMOVE CYLINDER HEAD COVER SUB-ASSEMBLY (See page EM-59)
- 18. REMOVE CYLINDER HEAD COVER SUB-ASSEMBLY LH (See page EM-59)
- 19. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (See page ES-407)
- 20. REMOVE VVT SENSOR (See page IG-8)
- 21. REMOVE TIMING CHAIN OR BELT COVER SUB-ASSEMBLY (See page LU-17)
- 22. REMOVE TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL (See page EM-236)

 EM



23. SET NO.1 CYLINDER TO TDC/COMPRESSION

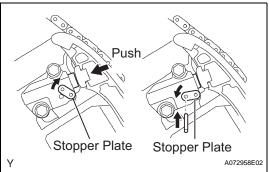
(a) Using the crankshaft pulley set bolt, turn the crankshaft to align the crankshaft set key with the timing line of the cylinder block.



(b) Check that the timing marks of the camshaft timing gears are aligned with the timing marks of the bearing cap as shown in the illustration.
If not, turn the crankshaft 1 complete revolution (360°) and align the timing marks as above.

24. REMOVE NO.1 CHAIN TENSIONER ASSEMBLY NOTICE:

- Never 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 first.



- (a) While turning the stopper plate of the tensioner upward, push in the plunger of the chain tensioner as shown in the illustration.
- (b) While turning the stopper plate of the tensioner down ward, insert a bar of ϕ 3.5 mm (0.138) into the holes in the stopper plate and tensioner to fix the stopper plate.
- (c) Remove the 2 bolts, then remove the chain tensioner.



26. REMOVE IDLE SPROCKET ASSEMBLY

(a) Using a 10 mm hexagon wrench, remove the idle gear shaft No. 2, idle gear No. 1 and idle gear shaft No. 1.

27. REMOVE NO.2 CHAIN VIBRATION DAMPER

- (a) Remove the 2 chain vibration dampers No. 2.
- 28. REMOVE CHAIN SUB-ASSEMBLY

