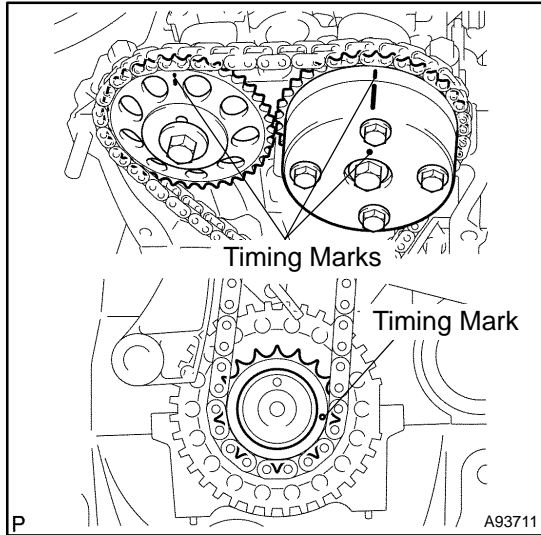


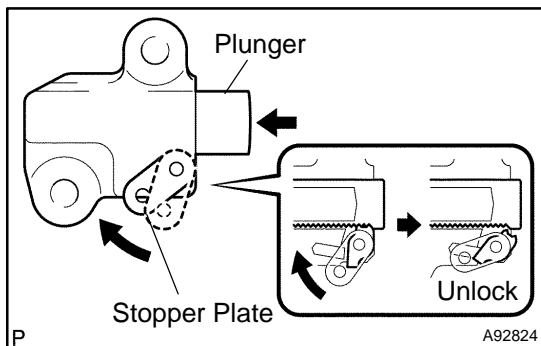
REPLACEMENT

1. REMOVAL & INSTALLATION OIL PUMP ASSY (See page 17-7)
2. REMOVAL & INSTALLATION OIL PUMP SEAL (See page 17-7)



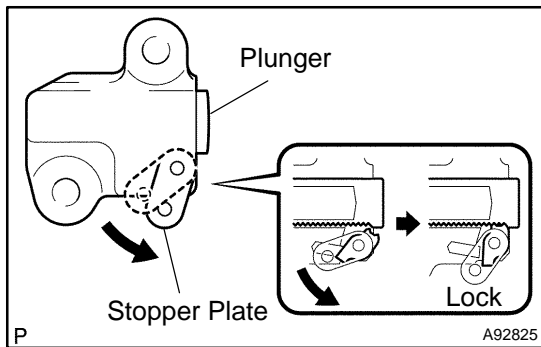
3. SET NO. 1 CYLINDER TO TDC/COMPRESSION

- (a) Install the washer to the crankshaft bolt, then install the bolt to the crankshaft.
- (b) Turn the crankshaft clockwise so it is located as illustrated.

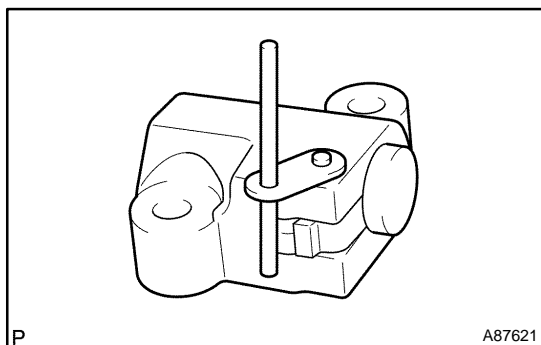


4. REMOVE CHAIN SUB-ASSY

- (a) Remove the chain tensioner.
 - (1) Lift up the stopper plate, then unlock the plunger.
 - (2) Push in the plunger to the end with the plunger unlocked.



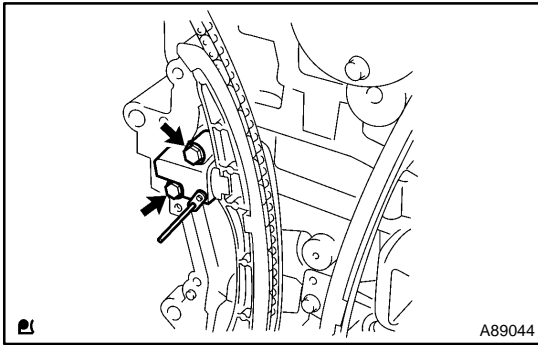
- (3) Lift down the stopper plate with the plunger pushed to the end, then lock the plunger.



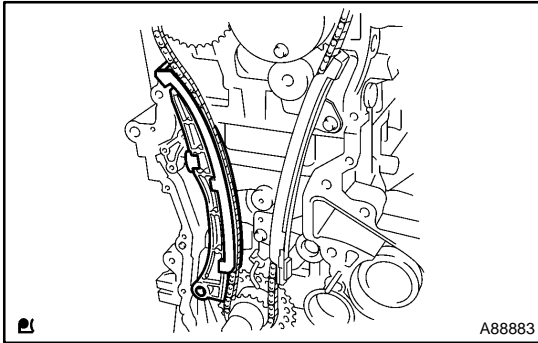
- (4) Insert a 3.0 mm (0.118 in.) diameter bar into the hole of the stopper plate with the plunger locked.

HINT:

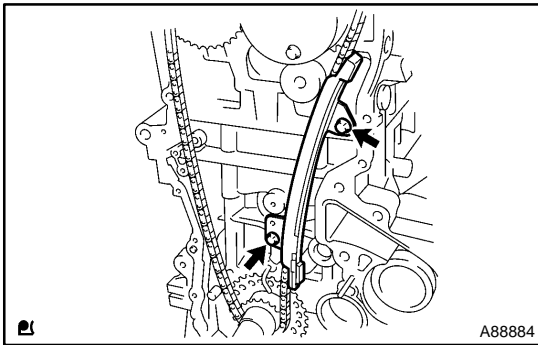
If the stopper plate is not completely lifted down and a 3.0 mm (0.118 in.) diameter bar cannot be inserted, unlock and pull out the plunger slightly. The stopper plate will be completely lifted down and a 3.0 mm (0.118 in.) diameter bar can be inserted easily.



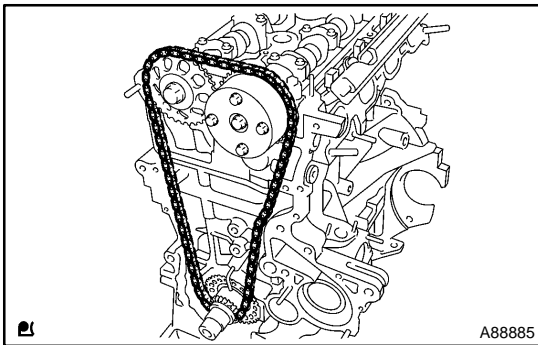
(5) Remove the 2 bolts and chain tensioner.



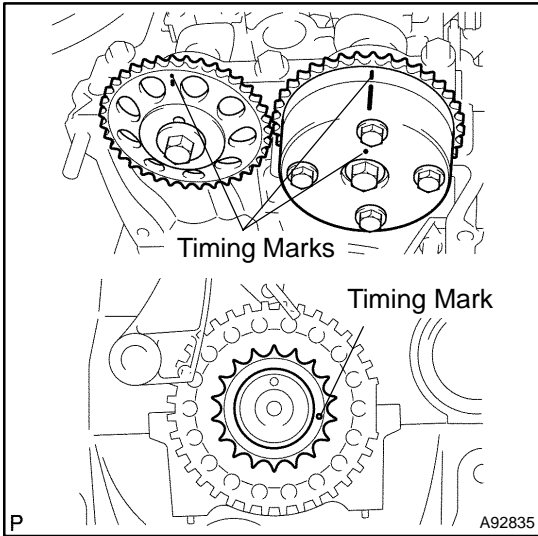
(b) Remove the chain tensioner slipper.



(c) Remove the 2 bolts and chain vibration damper.



(d) Remove the chain.

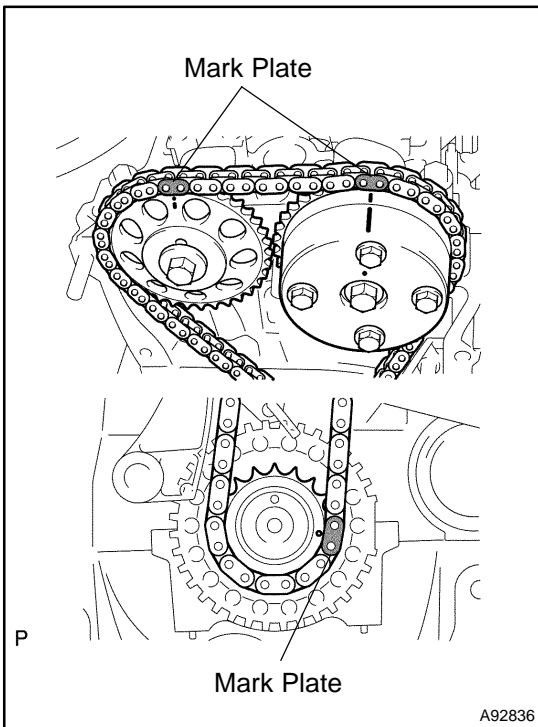
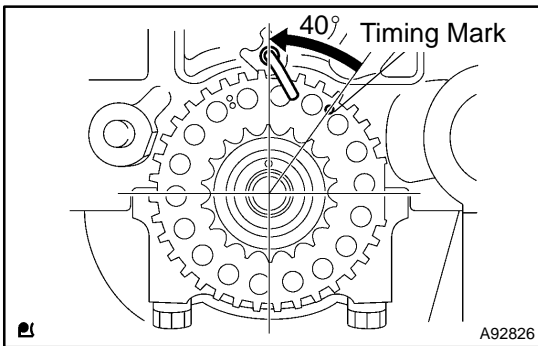


5. INSTALL CHAIN SUB-ASSY

(a) Check that the timing marks are located as illustrated.

NOTICE:

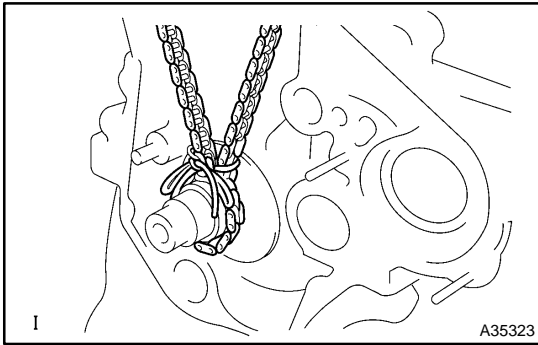
- Do not turn the crankshaft with the chain tensioner removed.
- If turning the camshaft with the chain removed, turn the crankshaft counterclockwise by 40° from the TDC/compression.



(b) Install the chain so the timing mark and the mark plate of the chain are aligned.

HINT:

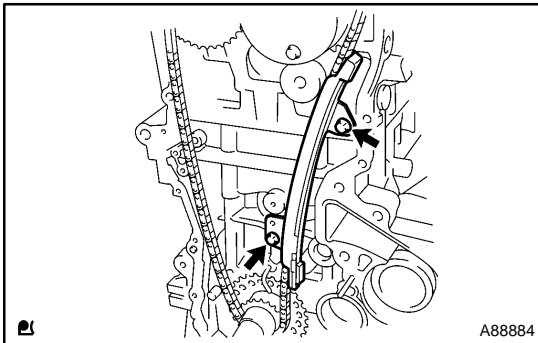
- The camshaft side Orange
- The crankshaft side Yellow



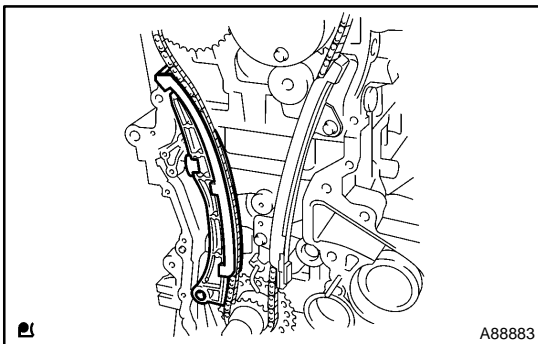
- (c) To prevent misalignment of the mark plate and timing mark, tie the chain around the crankshaft timing sprocket with a string.

HINT:

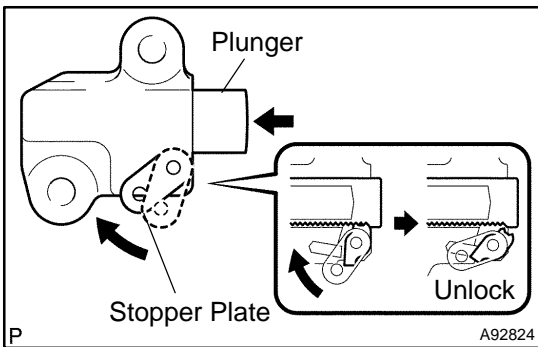
Tie the chain to prevent misalignment of the timing marks.



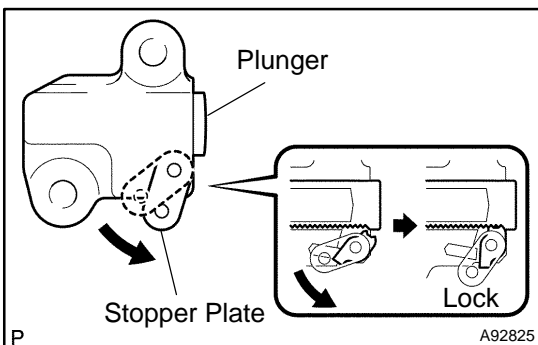
- (d) Install the chain vibration damper with the 2 bolts.
Torque: 9.0 N·m (92 kgf·cm, 80 in·lbf)



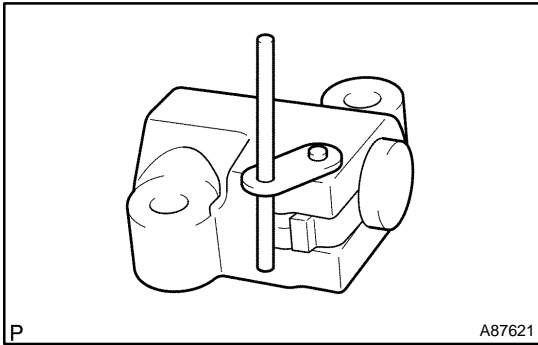
- (e) Remove the string, then install the chain tensioner stopper.



- (f) Install the chain tensioner.
(1) Lift up the stopper plate, then unlock the plunger.
(2) Push in the plunger to the end with the plunger unlocked.



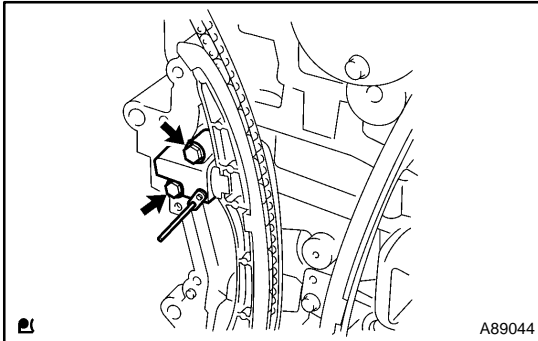
- (3) Lift down the stopper plate with the plunger pushed to the end, then lock the plunger.



- (4) Insert a 3.0 (0.118 in.) mm diameter bar into the hole of the stopper plate with the plunger locked.

HINT:

If the stopper plate is not completely lifted down and a 3.0 mm (0.118 in.) diameter bar cannot be inserted, unlock and pull out the plunger slightly. The stopper plate will be completely lifted down and a 3.0 mm (0.118 in.) diameter bar can be inserted easily.



- (5) Install the chain tensioner with the 2 bolts.

Torque: 9.0 N·m (92 kgf·cm, 80 in.-lbf)

- (6) Remove the 3.0 mm (0.118 in.) diameter bar from the chain tensioner.

6. INSTALL OIL PUMP SEAL (See page 17-7)

SST 09950-60010 (09951-00250, 09951-00380, 09952-06010), 09950-70010 (09951-07100)

7. INSTALL OIL PUMP ASSY (See page 17-7)