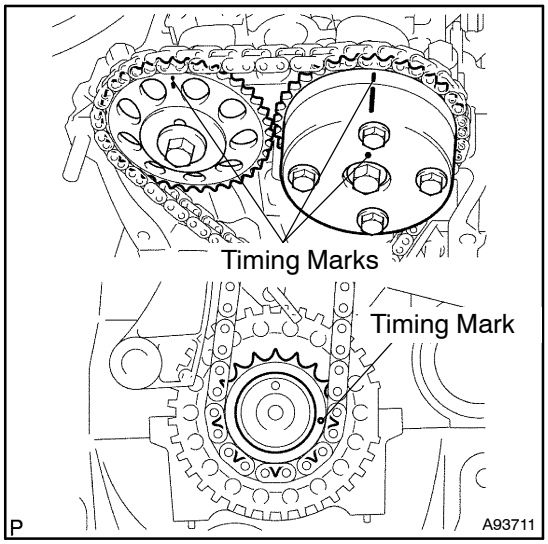
141O9–01

REPLACEMENT

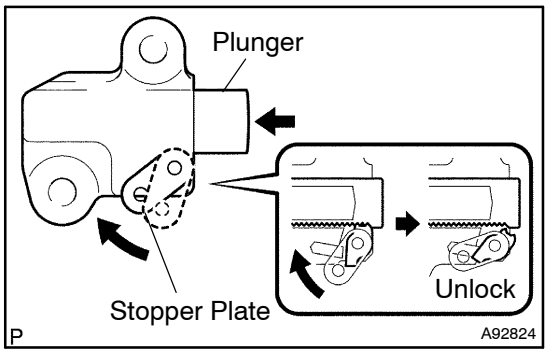
1. REMOVAL & INSTALLATION OIL PUMP ASSY (See page 17–8)
2. REMOVAL & INSTALLATION OIL PUMP SEAL (See page 17–8)



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.

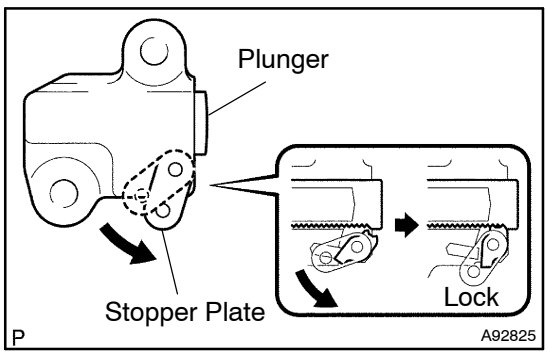


4. REMOVE CHAIN SUB–ASSY

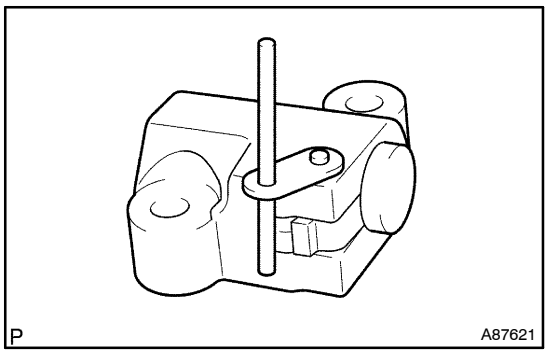
(a) Remove the chain tensioner.

(1) Lift up the stopper plate, then unlock the plunger.

(2) Push in the plunger to the end with the plunger unlocked.



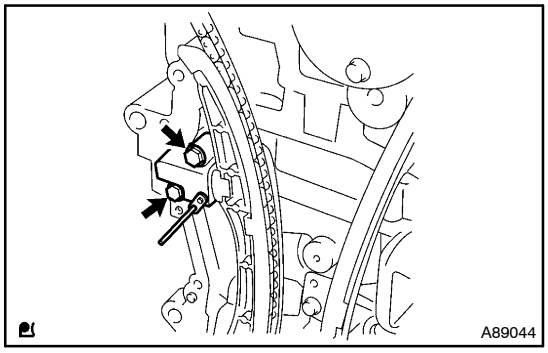
(3) Lift down the stopper plate with the plunger pushed to the end, then lock the plunger.



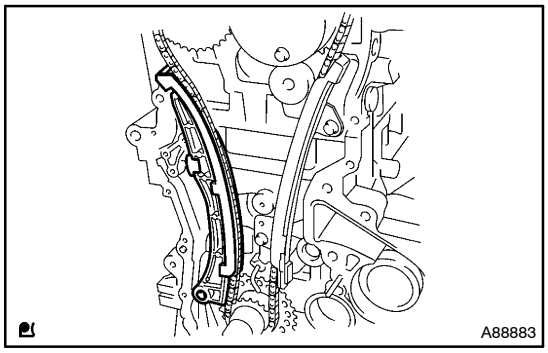
(4) Insert a 3.0 mm (0.118 in.) diameter bar into the hole of the stopper plate with the plunger locked.

HINT:

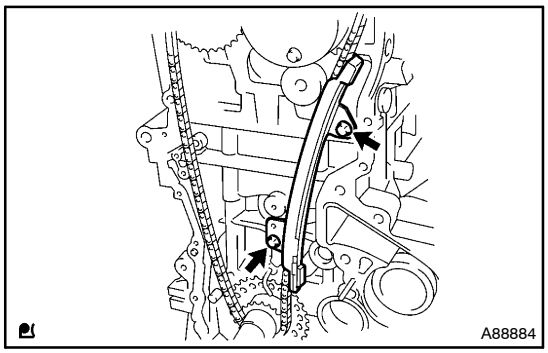
If the stopper plate is not completely lifted down and a 3.0 mm (0.118 in.) diameter bar cannot be inserted, unlock and pull out the plunger slightly. The stopper plate will be completely lifted down and a 3.0 mm (0.118 in.) diameter bar can be inserted easily.



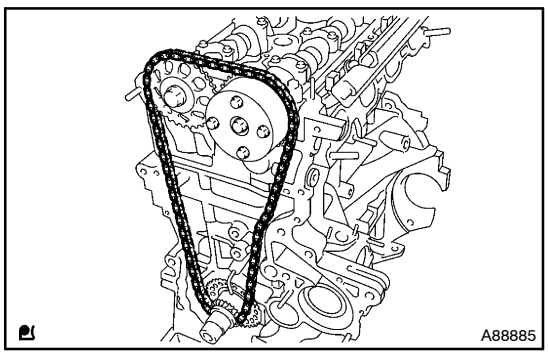
(5) Remove the 2 bolts and chain tensioner.



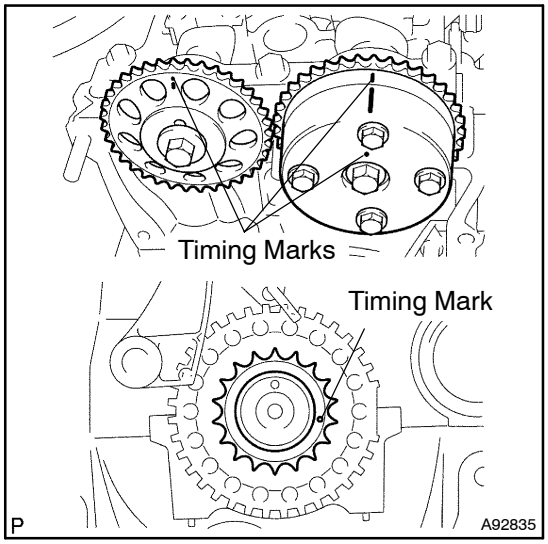
(b) Remove the chain tensioner slipper.



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



(d) Remove the chain.

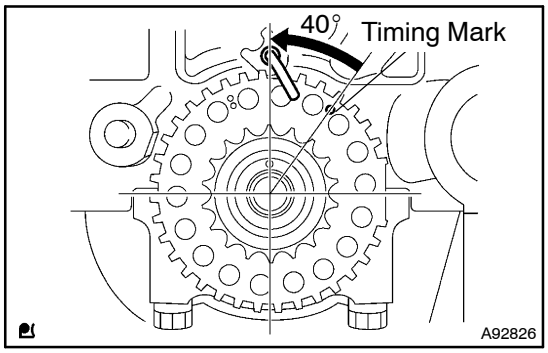


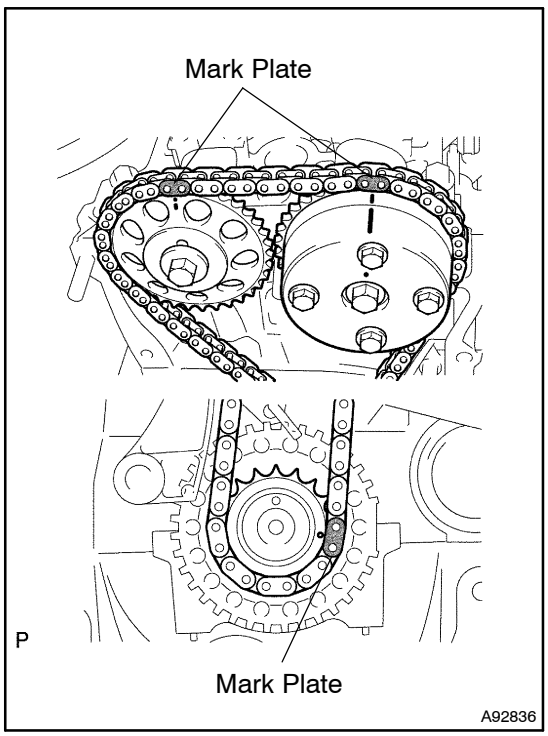
5. INSTALL CHAIN SUB–ASSY

(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.**

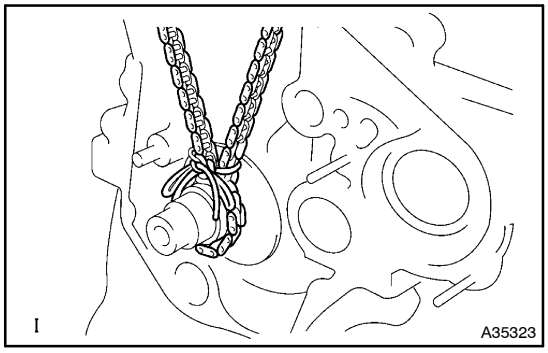




(b) Install the chain so the timing mark and the mark plate of the chain are aligned.

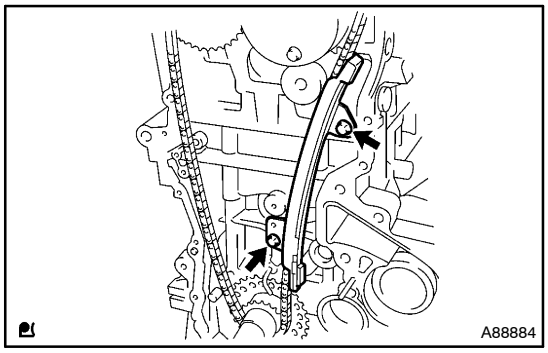
HINT:

- The camshaft side Orange
- The crankshaft side Yellow

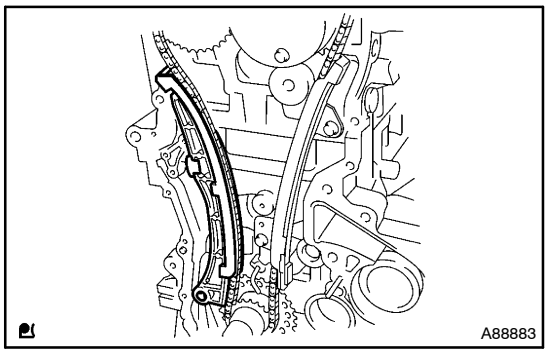


(c) To prevent misalignment of the mark plate and timing mark, tie the chain around the crankshaft timing sprocket with a string.

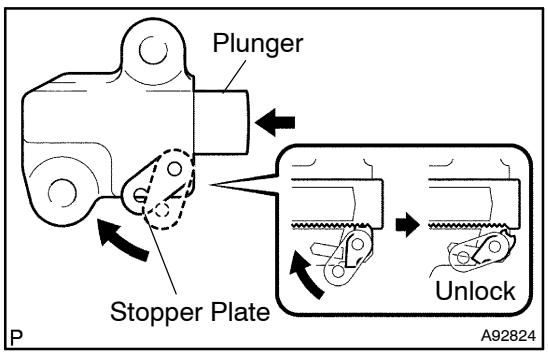
HINT:
Tie the chain to prevent misalignment of the timing marks.



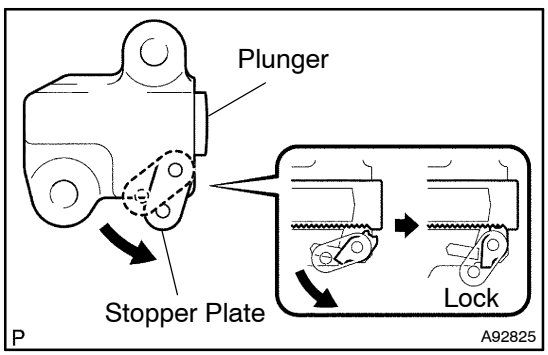
(d) Install the chain vibration damper with the 2 bolts.
Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)



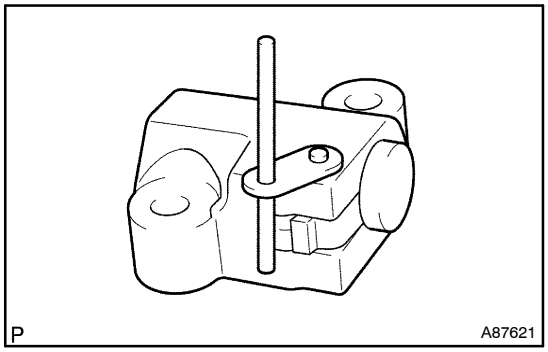
(e) Remove the string, then install the chain tensioner stopper.



(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.

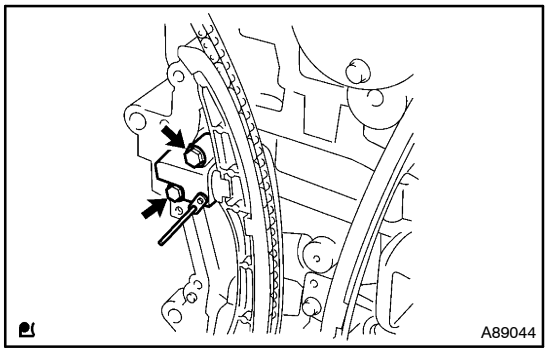


(3) Lift down the stopper plate with the plunger pushed to the end, then lock the plunger.



(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 17–8)
SST 09950–60010 (09951–00250, 09951–00380, 09952–06010), 09950–70010 (09951–07100)

7. INSTALL OIL PUMP ASSY (See page 17–8)