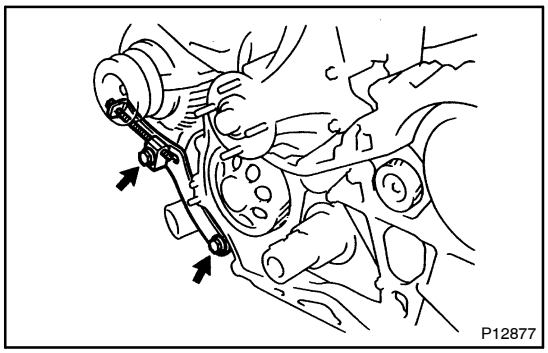
LU0HY–01

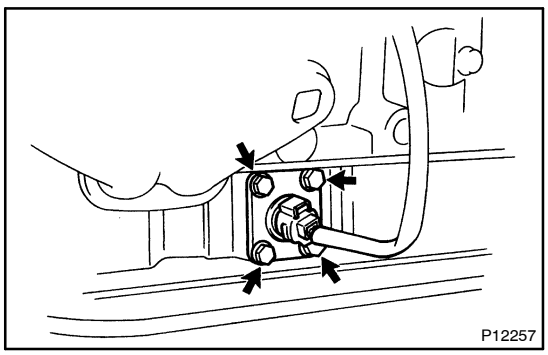
# REMOVAL

HINT:
When repairing the oil pump, oil pan and strainer should be removed and cleaned.

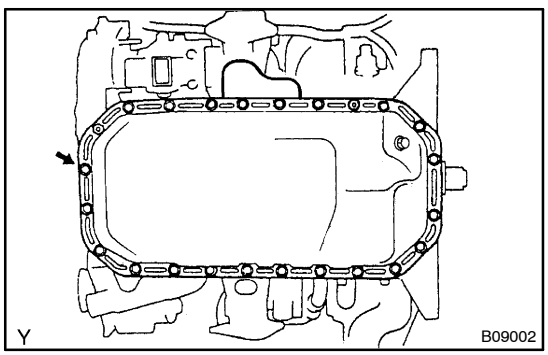
1. **DRAIN ENGINE COOLANT**
2. **DRAIN ENGINE OIL**
3. **REMOVE DRIVE BELT, FAN AND WATER PUMP PULLEY (See page CO–5)**
4. **REMOVE TIMING BELT (See page EM–13)**
5. **REMOVE TIMING GEARS (See page EM–24)**



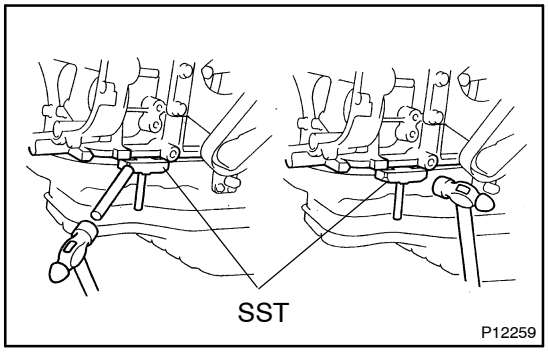

6. **REMOVE ALTERNATOR ADJUSTING BAR**
(a) Remove the lock bolt.
(b) Remove the bolt and adjusting bar.
7. **REMOVE ALTERNATOR AND ALTERNATOR BRACKET (See page CO–5)**
8. **REMOVE WATER PUMP (See page CO–5)**




9. **REMOVE OIL LEVEL SENSOR**
(a) Disconnect the oil level sensor connector.
(b) Remove the 4 bolts and oil level sensor.



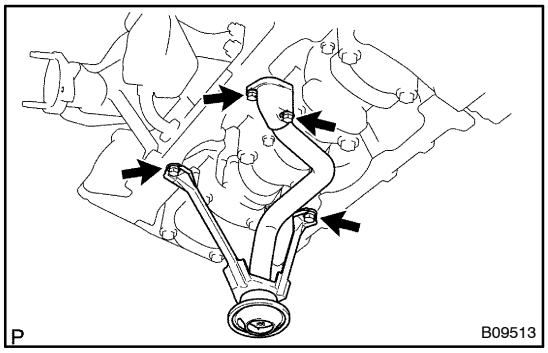

10. **REMOVE OIL PAN**
(a) Remove the 22 bolts and 2 nuts.




(b) Insert the blade of SST between the cylinder block and oil pan, and cut off applied sealer and remove the oil pan.
SST 09032–00100

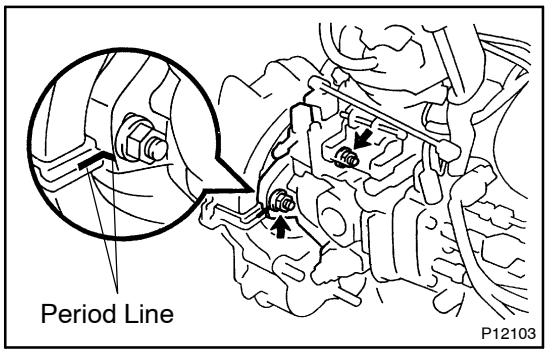
**NOTICE:**

- **Do not use SST for the oil pump body side and rear oil seal retainer.**
- **Be careful not to damage the oil pan flange.**




**11. REMOVE OIL STRAINER**

Remove the 2 bolts, 2 nuts, oil strainer and gasket.

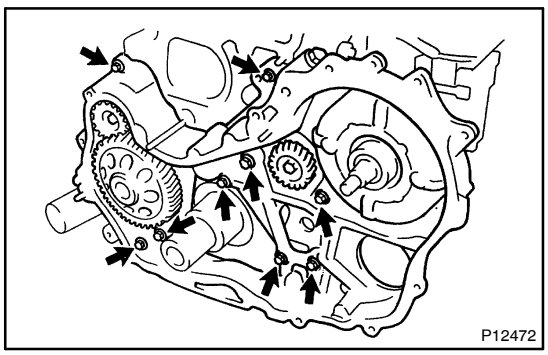



**12. REMOVE OIL PUMP (TIMING GEAR CASE)**

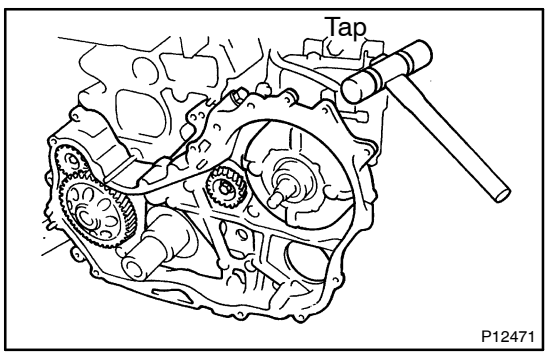
(a) Before removing the 2 nuts holding the timing gear case to the injection pump, check if the injection pump period lines are aligned.

If not, place new matchmarks for reinstallation.

(b) Remove the 2 nuts.




(c) Remove the 8 bolts and union bolt.




(d) Using a plastic–faced hammer, lightly tap out the timing gear case.

(e) Remove the 3 O–rings.