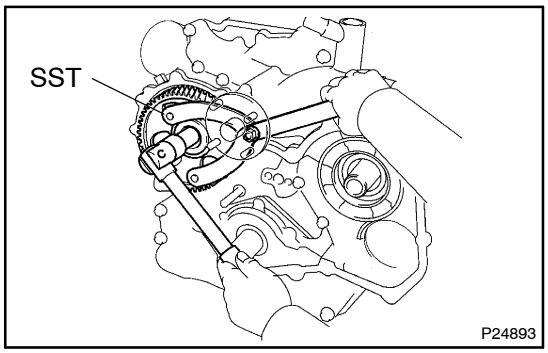
LU0PH–01

REMOVAL

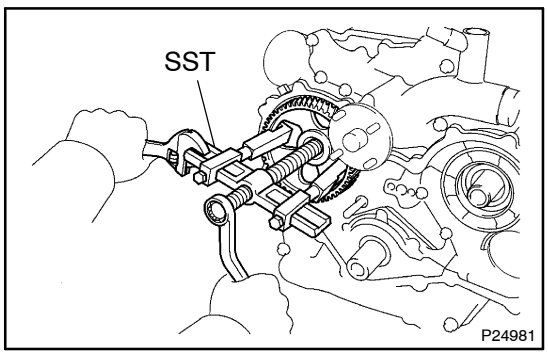
HINT:
When repairing the oil pump, the oil pan and strainer should be removed and cleaned.

1. **SET NO.1 CYLINDER TO TDC/COMPRESSION**
2. **DRAIN ENGINE OIL**
3. **REMOVE DRIVE BELT(S), FAN, FLUID COUPLING ASSEMBLY AND WATER PUMP PULLEY**
4. **REMOVE VALVE ROCKER SHAFT ASSEMBLY**
   (See page EM–25)
5. **REMOVE CRANKSHAFT PULLEY AND TIMING GEAR COVER**
   (See page EM–12)
6. **REMOVE VACUUM PUMP AND IDLE GEAR AND CRANKSHAFT TIMING GEAR**
   (See page EM–12)



7. **REMOVE CAMSHAFT TIMING GEAR**

(a) Using SST, remove the mount bolt and plate washer.
SST 09960–10010 (09962–01000, 09963–01000)



(b) Using SST, remove the timing gear.
SST 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04051)

8. **REMOVE OIL DIPSTICK AND GUIDE**

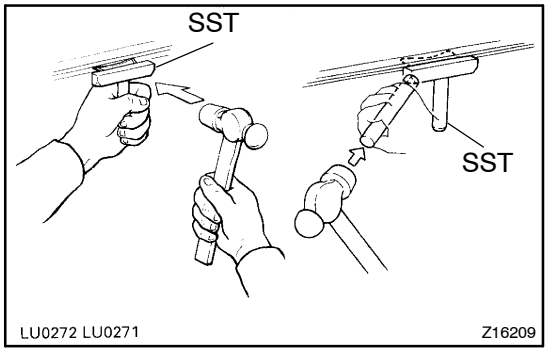
(a) Remove the 2 bolts, and pull out the dipstick guide together with the dipstick from the oil pan.
(b) Remove the O–ring from the dipstick guide.

9. **REMOVE OIL LEVEL SENSOR**

Remove the 4 bolts, oil level sensor and gasket.

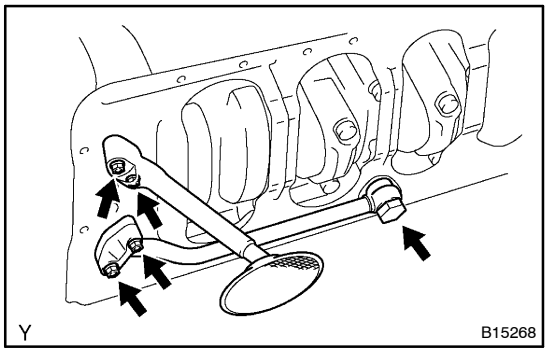
10. **REMOVE OIL PAN**

(a) Remove the 17 bolts and 7 nuts.



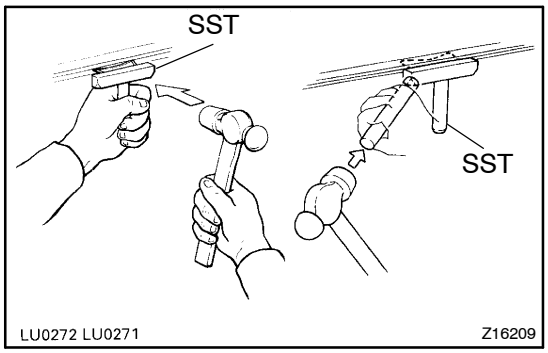
(b) Insert the blade of SST between the stiffening plate and oil pan, and cut off applied sealer and remove the oil pan.
SST 09032–00100

NOTICE:
Be careful not to damage the oil pan flange and stiffening plate.



11. REMOVE OIL STRAINER AND OIL PIPE

(a) Remove the 2 bolts, 2 nuts, oil strainer and gasket.
(b) Remove the union bolt, 2 nuts, oil pipe and 3 gasket.



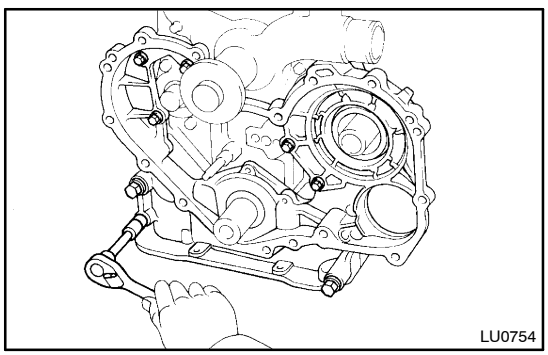
12. REMOVE STIFFENING PLATE

Insert the blade of SST between the cylinder block and stiffening plate, and cut off applied sealer and remove the stiffening plate.
SST 09032–00100

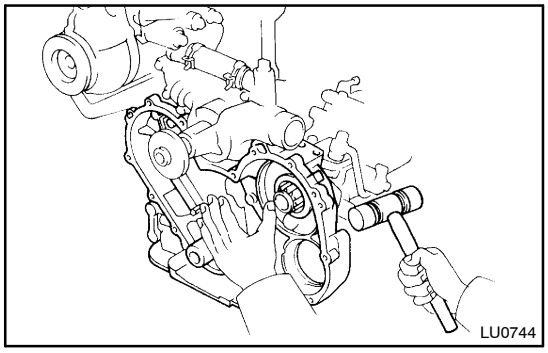
NOTICE:
- **Do not use SST for the timing gear case side and rear oil seal retainer side.**
- **Be careful not to damage the stiffening plate.**

13. REMOVE OIL PUMP (TIMING GEAR CASE)

(a) Remove the distributor housing (See page IG–14).



(b) Remove the 8 bolts holding the timing gear case to the cylinder block.



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