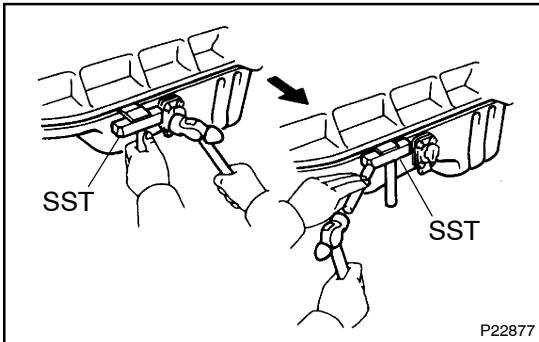# REMOVAL

HINT:

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

1. **DRAIN ENGINE COOLANT**
2. **DRAIN ENGINE OIL**
3. **REMOVE TIMING GEARS (See page EM−37)**
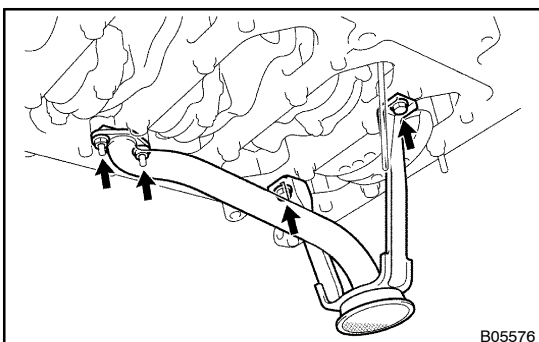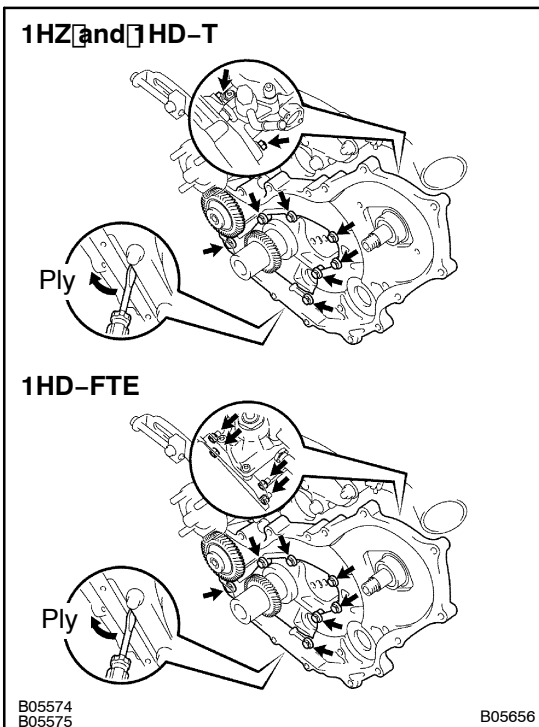4. **REMOVE OIL PAN**

(a) Remove 27 bolts and 3 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.**

5. **REMOVE WATER OUTLET**
   (1HZ and 1HD−T: See page EM−48)
   (1HD−FTE: See page EM−77)
6. **REMOVE OIL PUMP**

(a) 1HZ and 1HD−T:
Remove the 2 nuts holding the injection pump to the timing gear case.

(b) 1HD−FTE:
Remove the 4 nuts holding the injection pump to the timing gear case.

(c) Remove the 7 bolts holding the timing gear case to the cylinder block.

(d) Using a screwdriver, remove the oil pump by plying the portions between the oil pump and cylinder block.

(e) Remove the gasket and O−ring.

1HZ and 1HD−T

1HD−FTE

7. **REMOVE OIL STRAINER**

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