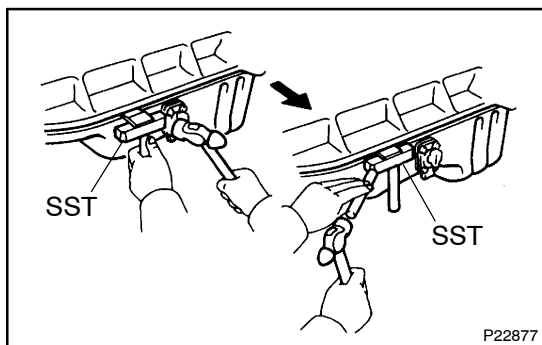


REMOVAL

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.

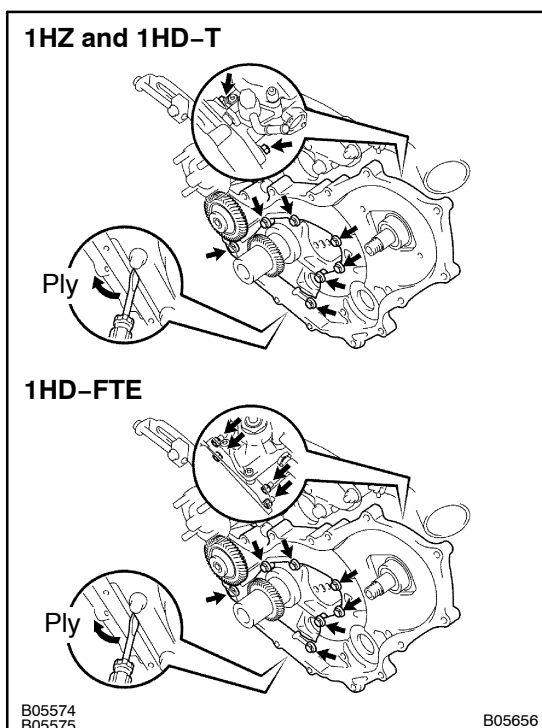


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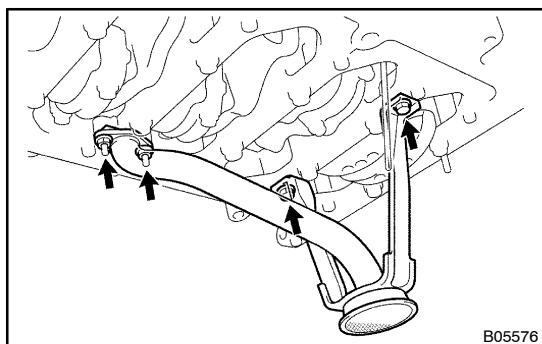
- (b) Insert the blade of SST between the cylinder block and oil pan, and cut off applied sealer and remove the oil pan
SST 09032-00100

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 prying the portions between the oil pump and cylinder block.
 - (e) Remove the gasket and O-ring.

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7. REMOVE OIL STRAINER

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