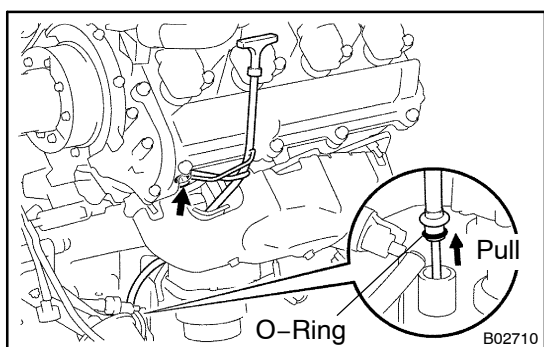


## REMOVAL

### HINT:

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

1. REMOVE ENGINE AND TRANSMISSION ASSEMBLY FROM VEHICLE (See page EM-80)
2. SEPARATE ENGINE AND TRANSMISSION (See page EM-80)
3. INSTALL ENGINE TO ENGINE STAND FOR DIS-ASSEMBLY
4. REMOVE TIMING BELT (See page EM-15)
5. REMOVE NO.1 IDLER PULLEY (See page EM-15)
6. REMOVE NO.2 IDLER PULLEY (See page EM-15)
7. REMOVE CRANKSHAFT TIMING PULLEY (See page EM-15)



### 8. REMOVE OIL DIPSTICK AND GUIDE

- (a) Remove the bolt holding the oil dipstick to the LH cylinder head.
- (b) Pull out the dipstick guide together with the dipstick from the No.1 oil pan.
- (c) Remove the O-ring from the dipstick guide.

### 9. REMOVE OIL LEVEL SENSOR

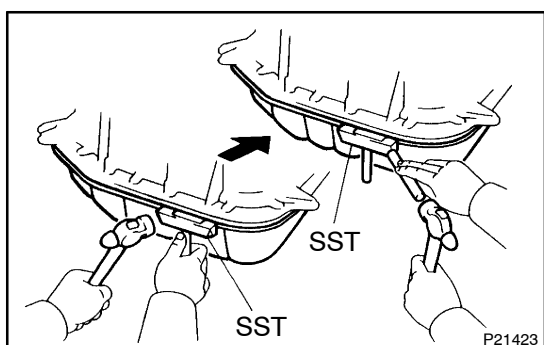
- (a) Remove the 4 bolts and level sensor.
- (b) Remove the gasket from the level sensor.

### 10. REMOVE OIL FILTER AND FILTER BRACKET ASSEMBLY

- (a) Disconnect the oil pressure switch connector.
- (b) Remove the stud bolt, 2 nuts, the oil filter and filter bracket assembly.
- (c) Remove the gasket from the filter bracket.

### 11. REMOVE CRANKSHAFT POSITION SENSOR

- (a) Disconnect the position sensor connector.
- (b) Remove the bolt and position sensor.

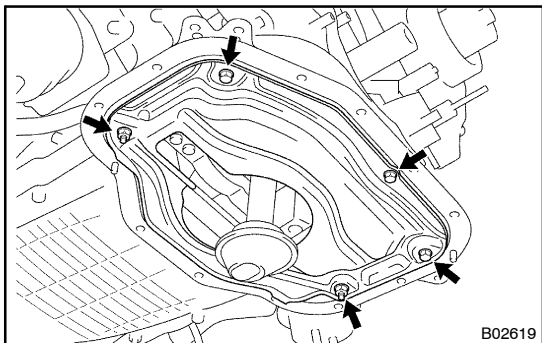


### 12. REMOVE NO.2 OIL PAN

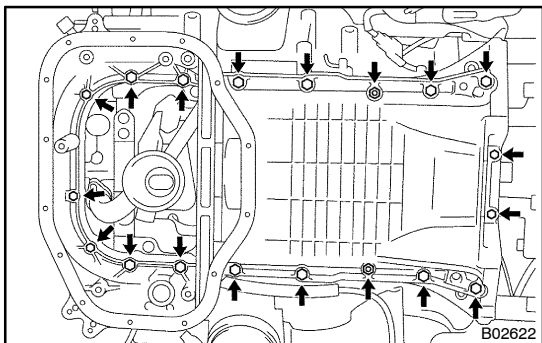
- (a) Remove the 12 bolts and 2 nuts.
- (b) Insert the blade of SST between the No.1 and No.2 oil pans, cut off applied sealer and remove the No.2 oil pan. SST 09032-00100

### NOTICE:

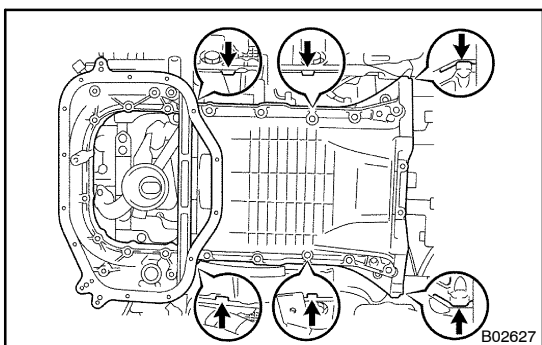
- Be careful not to damage the No.2 oil pan contact surface of the No.1 oil pan.
- Be careful not to damage the No.2 oil pan flange.

**13. REMOVE OIL PAN BAFFLE PLATE**

Remove the 3 bolts, 2 nuts and baffle plate.

**14. REMOVE NO.1 OIL PAN**

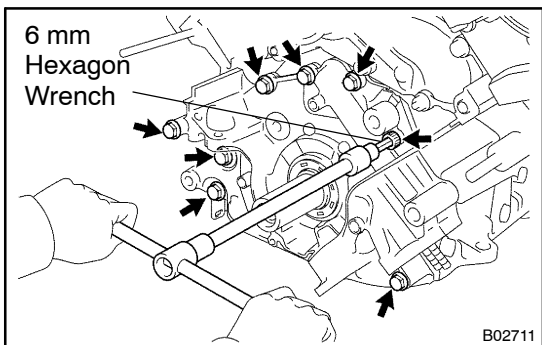
(a) Remove the 17 bolts and 2 nuts.



(b) Using a screwdriver, remove the No.1 oil pan by prying between the oil pan and cylinder block in the sequence shown.

**15. REMOVE OIL STRAINER**

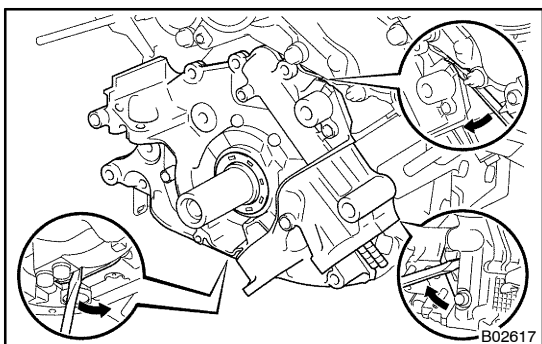
Remove the bolt, 2 nuts, oil strainer and gasket.

**16. REMOVE OIL PUMP**

(a) Remove the 8 bolts.

HINT:

Use a 6 mm hexagon wrench for the hexagon head bolt.



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

(c) Remove the O-ring from the cylinder block.