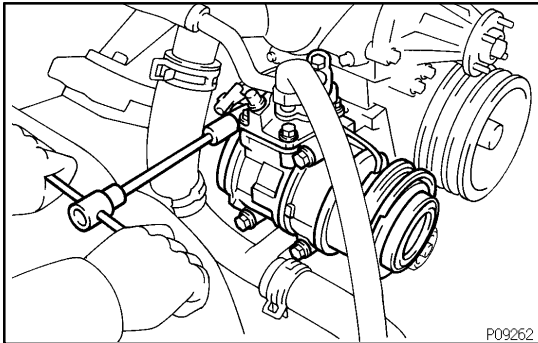


REMOVAL

HINT:

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

1. **DRAIN ENGINE OIL**
2. **REMOVE ENGINE UNDER COVER**
3. **DRAIN ENGINE COOLANT**
4. **REMOVE RADIATOR (See page [CO-14](#))**

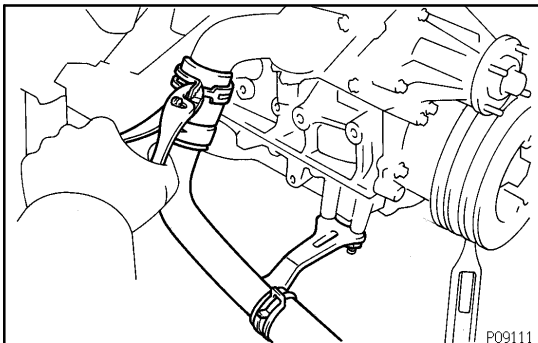


5. **DISCONNECT A/C COMPRESSOR AND BRACKET**
 - (a) Loosen the idler pulley nut and adjusting bolt, and remove the drive belt.
 - (b) Remove the 4 mounting bolts, and disconnect the compressor from the bracket.

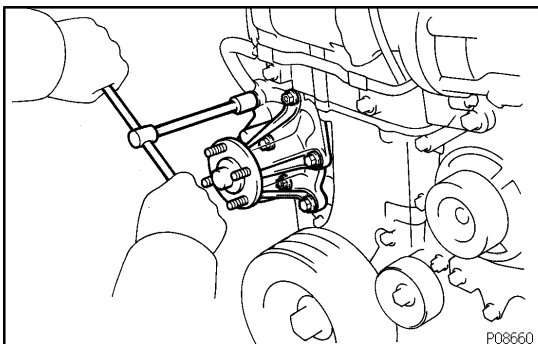
HINT:

Put aside the compressor, and suspend it.

- (c) Remove the 5 bolts and A/C compressor bracket.



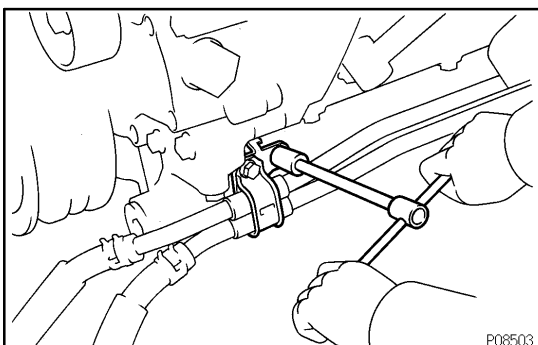
6. **REMOVE RADIATOR PIPE**
 - (a) Disconnect the No.2 radiator hose from the water inlet.
 - (b) Remove the 2 nuts and radiator pipe.



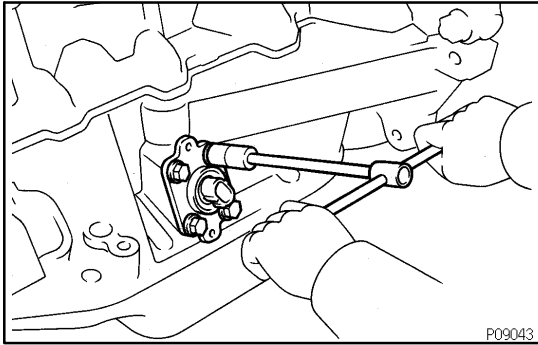
7. **REMOVE WATER PUMP**

Remove the 4 bolts, 2 nuts, water pump and gasket.

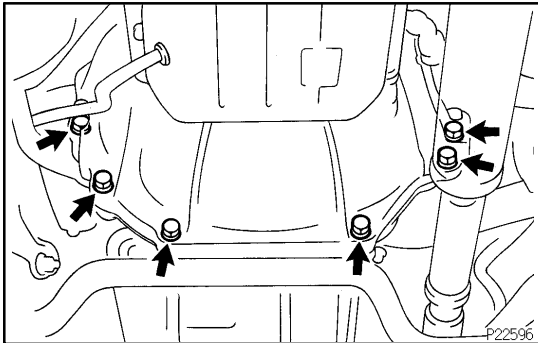
8. **REMOVE CYLINDER HEAD (See page [EM-28](#))**



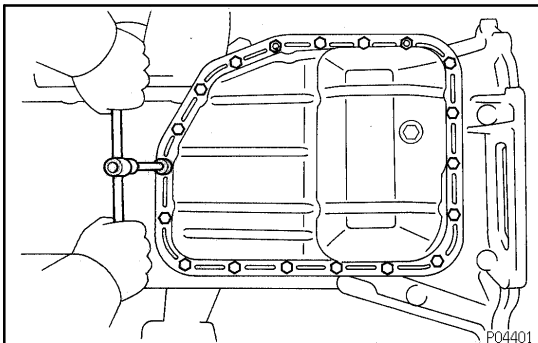
9. **DISCONNECT OIL COOLER PIPE BRACKET FROM NO.1 OIL PAN**

**10. REMOVE OIL LEVEL SENSOR**

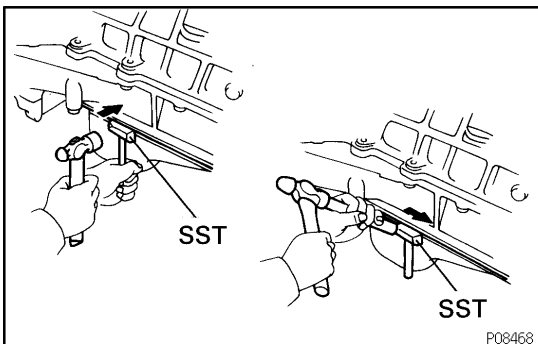
- (a) Remove the 4 bolts and level sensor.
- (b) Remove the gasket from the level sensor.

**11. REMOVE BOLTS HOLDING NO.1 OIL PAN TO TRANSMISSION HOUSING**

Remove the 6 bolts.

**12. REMOVE NO.2 OIL PAN**

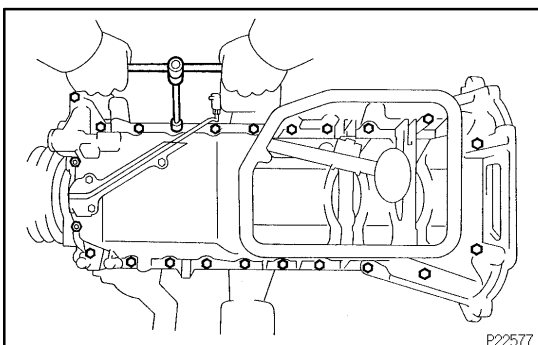
- (a) Remove the 17 mounting bolts and 2 nuts.



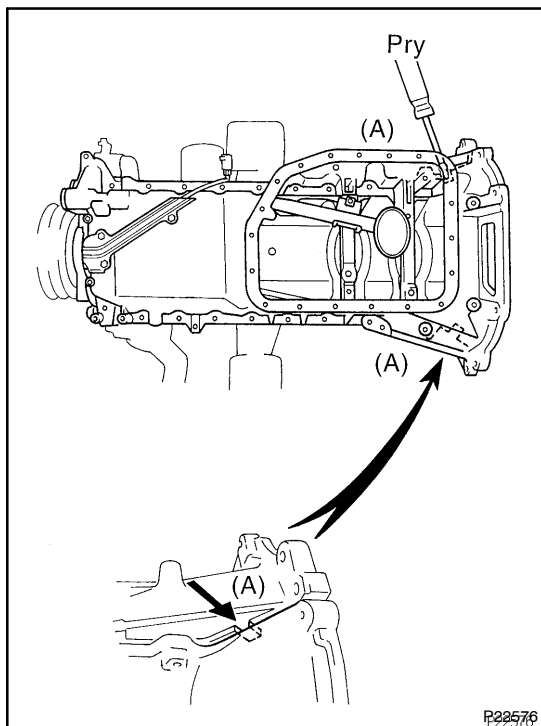
- (b) Insert the blade of SST between the No.1 and No.2 oil pans, cut off applied sealer and remove the No.2 oil pan.
SST 09032-00100

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 oil pan flange.

**13. REMOVE NO.1 OIL PAN**

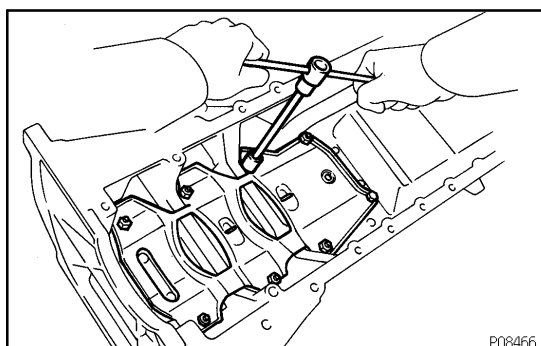
- (a) Remove the 21 mounting bolts and 2 nuts.



- (b) Remove the No.1 oil pan by prying the portions (A) between the cylinder block and No.1 oil pan with a screwdriver.

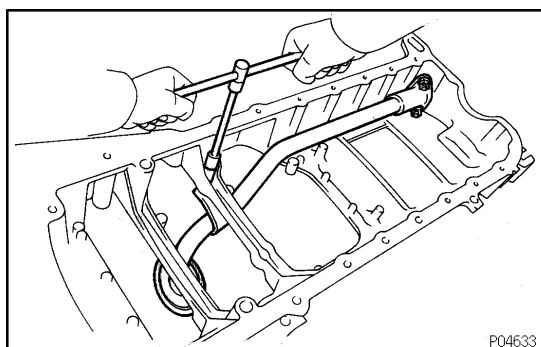
NOTICE:

Be careful not to damage the contact surfaces of the cylinder block and No.1 oil pan.



14. REMOVE OIL PAN BAFFLE PLATE

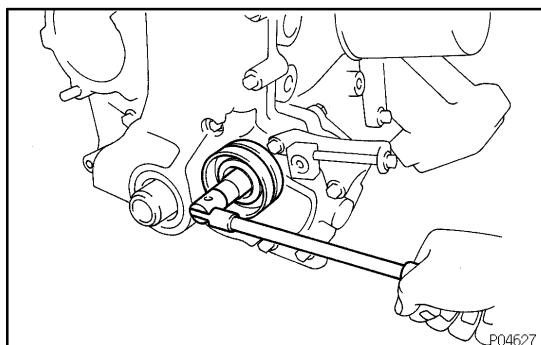
Remove the bolt, 7 nuts and baffle plate.



15. REMOVE OIL STRAINER

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

16. REMOVE CRANKSHAFT PULLEY (See page [EM-13](#))



17. REMOVE DRIVE BELT IDLER PULLEY

Remove the bolt and idler pulley.

18. REMOVE OIL PUMP (TIMING CHAIN COVER) (See page [EM-13](#))

19. REMOVE TIMING CHAIN AND CAMSHAFT TIMING GEAR