DISASSEMBLY

HINT:
• Thoroughly clean all parts to be assembled.
• Before installing the parts, apply new engine oil to all sliding and rotating surfaces.
• Replace all gaskets, O-rings and oil seals with new parts.

1. REMOVE VALVE LIFTER
   HINT:
   Arrange the valve lifter in the correct order.

2. REMOVE VALVE
   HINT:
   Arrange the valves, inner compression springs, valve spring retainers and valve spring retainer locks in the correct order.
   (a) Place the cylinder head on a wooden block.
   (b) Using SST, compress the inner compression spring and remove the 2 valve spring retainer locks.
       SST 09202-70020 (09202-00010)
   (c) Remove the valve, inner compression spring and valve spring retainer.

3. REMOVE VALVE SPRING SEAT
   (a) Using compressed air and a magnetic finger, remove the valve spring seat by applying compressed air.

4. REMOVE VALVE STEM OIL O SEAL OR RING
   (a) Using needle-nose pliers, remove the valve stem oil seal.

5. REMOVE STRAIGHT PIN NO.1
   (a) Remove the 10 knock pins from bank 1 and bank 2 cylinder heads.
6. **REMOVE EXHAUST MANIFOLD, RH STUD BOLT**
   (a) Remove the 20 stud bolts from bank 1 and bank 2 cylinder heads.

   Bank 1:
   - Exhaust Side
   - Upper Side
   - Rear Side

   Bank 2:
   - Exhaust Side
   - Upper Side
   - Rear Side

7. **REMOVE UNION**
   (a) Remove the 2 unions from bank 1 and bank 2 cylinder heads.

   Bank 1: Front Side
   Bank 2: Intake Side