

Product: MINI HYD EXCAVATOR

Model: 304C CR MINI HYD EXCAVATOR FPK

Configuration: 304 C CR Mini Hydraulic Excavator FPK00001-UP (MACHINE) POWERED BY S4Q2T Engine

## **Disassembly and Assembly S4Q2 Engine**

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## **Cylinder Head and Valve Mechanism - Disassemble and Inspect**

SMCS - 1100-015; 1100-040; 1102-015; 1102-040

## **Disassembling and inspecting cylinder head and valve mechanism**

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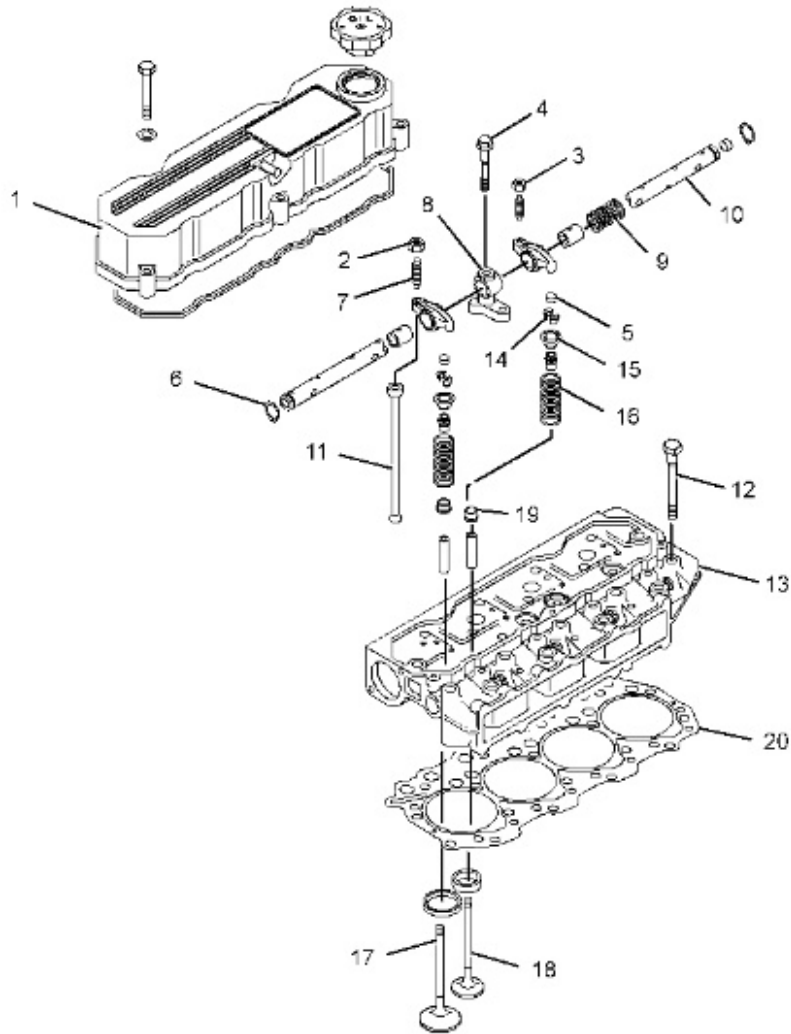


Illustration 1

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#### Disassembling sequence

- (1) Rocker cover
- (2) Adjusting screw
- (3) Bolt (short)
- (4) Bolt (long)
- (5) Valve cap
- (6) Snap ring
- (7) Rocker arm
- (8) Rocket shaft bracket
- (9) Rocket shaft spring
- (10) Rocket shaft
- (11) Push rod
- (12) Cylinder head bolt

- (13) Cylinder head
- (14) Valve cotter
- (15) Valve retainer
- (16) Valve spring
- (17) Inlet valve
- (18) Exhaust valve
- (19) Valve stem seal
- (20) Cylinder head gasket

## Removing rocker shaft assembly

**Note:** Always loosen shorter bolts first. Failing to do so may damage the rocker shaft bracket.

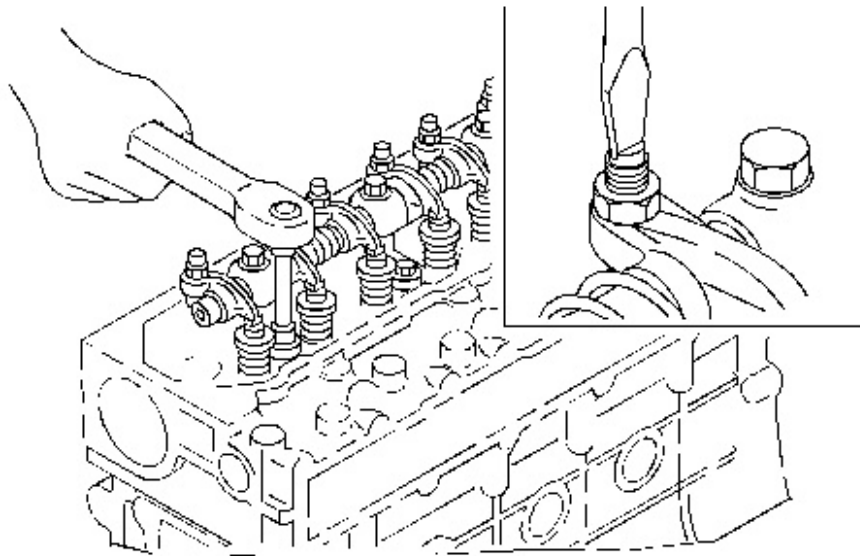


Illustration 2

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1. Loosen the rocker arm adjusting screws by rotating about one turn.
2. Loosen the shorter rocker bracket bolts first.
3. Then, loosen the longer rocker bracket bolts.
4. Remove the rocker bracket bolts, and remove the rocker shaft assembly from the cylinder head.
5. Remove push rods.

## Disassembling rocker shaft assembly

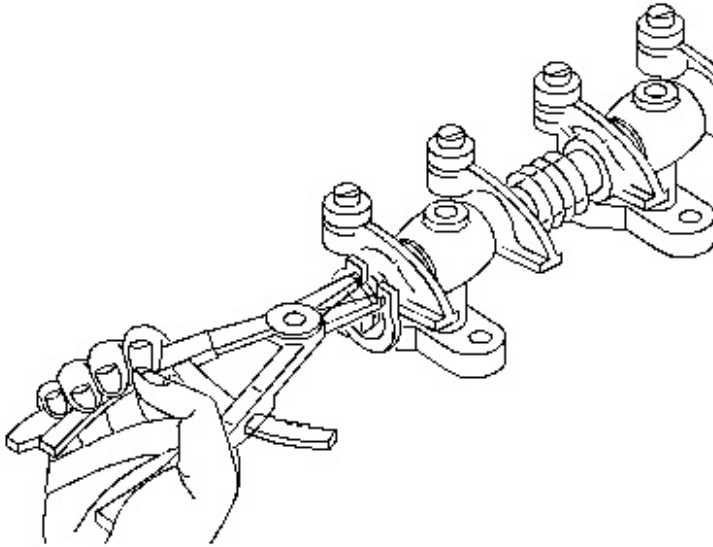


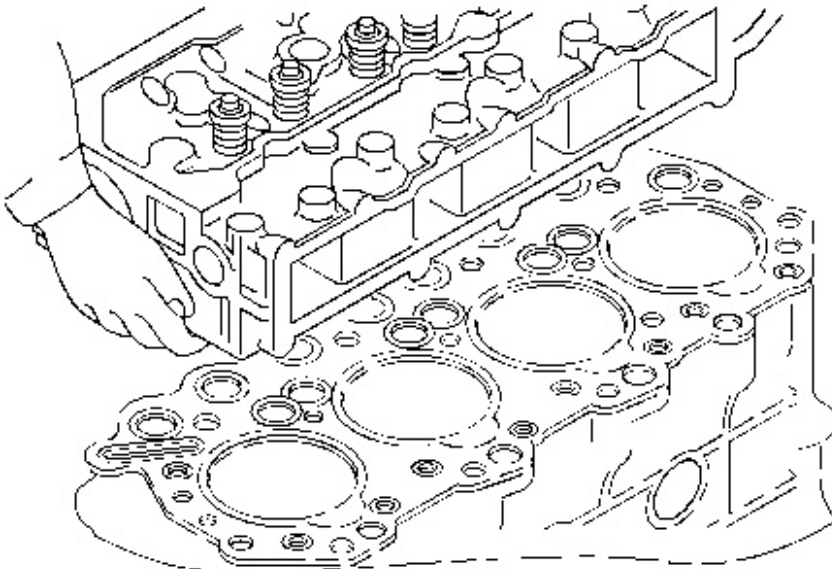
Illustration 3

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1. Be sure to arrange the parts in order during disassembly. Keep the original combination of rocker arm and shaft assembly, and when reassembling. Make sure to install the rocker arm and shaft assembly in the original positions to restore the same clearance between the rocker shaft and rocker arm.
2. Do not remove the rocker bushing unless rocker bushing is defective or its inside diameter exceeds the limit.

## Removing cylinder head assembly

**Note:** When removing the cylinder head gasket, be careful not to damage the cylinder head or crankcase surface by tools such as a screwdriver.



1. Remove the cylinder head bolt.
2. Remove the cylinder head assembly by lifting cylinder head assembly up.

**Note:** If the cylinder head assembly cannot be removed due to crimping of the cylinder head gasket. Tap the thick area on the side of the cylinder head using a plastic hammer to give a shock.

3. Remove the gasket from the cylinder head.

**Note:** If there is a cylinder head problem, check the bolts for tightness with a torque wrench before removing the cylinder head bolts.

## Removing valve and valve spring

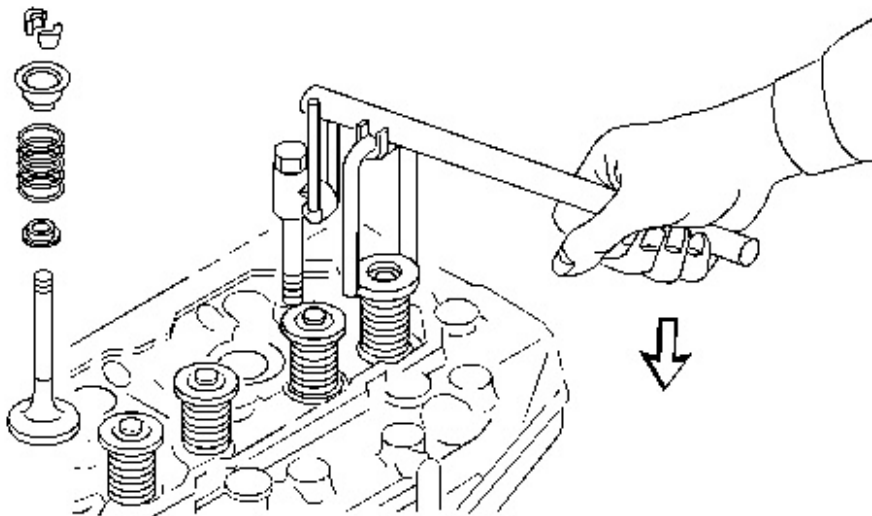


Illustration 5

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Using a valve spring pusher, compress the valve spring evenly and remove the valve cotteners.

**Note:** If valves are reusable, mark each valve seat and the mating valve guide for identifying the original positions. Do not mix valve seats with other valve guides.

## Removing valve stem seal

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