



# Service Repair Manual

## **Models**

# 272D2 SKID STEER LOADER

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Product: SKID STEER LOADER

Model: 272D2 SKID STEER LOADER BL2

Configuration: 272D2 & 272D2 XHP Skid Steer Loader BL200001-UP (MACHINE) POWERED BY C3.8 Engine

## Disassembly and Assembly C3.8 Engines for Caterpillar Built Machines

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i06622996

# Inlet and Exhaust Valves - Remove and Install

SMCS - 1105-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-3527	Valve Spring Compressor	1
B	4C-8134	Seal Remover	1
	1U-7600	Slide Hammer Puller Gp	1

### Start By:

- a. Remove the cylinder head assembly.
  1. Clean the bottom face of the cylinder head. Check the depth of the valves below the face of the cylinder head before the valve springs are removed. Refer to Specifications, "Cylinder Head Valves" for the correct dimensions.
  2. Place a temporary identification mark on the heads of the valves to identify the correct position.

**Note:** Do not stamp the heads of the valves. Stamping or punching the heads of the valves could cause the valves to fracture.



**Personal injury can result from being struck by parts propelled by a released spring force.**

**Make sure to wear all necessary protective equipment.**

**Follow the recommended procedure and use all recommended tooling to release the spring force.**

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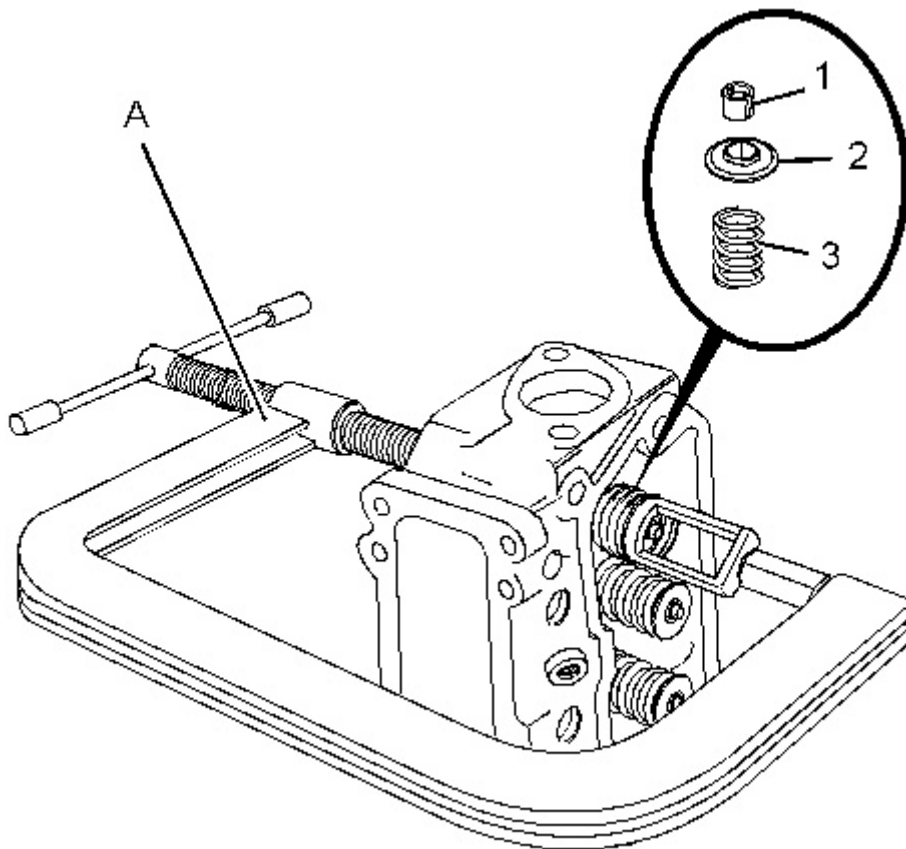
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### NOTICE

**Ensure that the valve spring is compressed squarely or damage to the valve stem may occur.**

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Illustration 1  
Typical example

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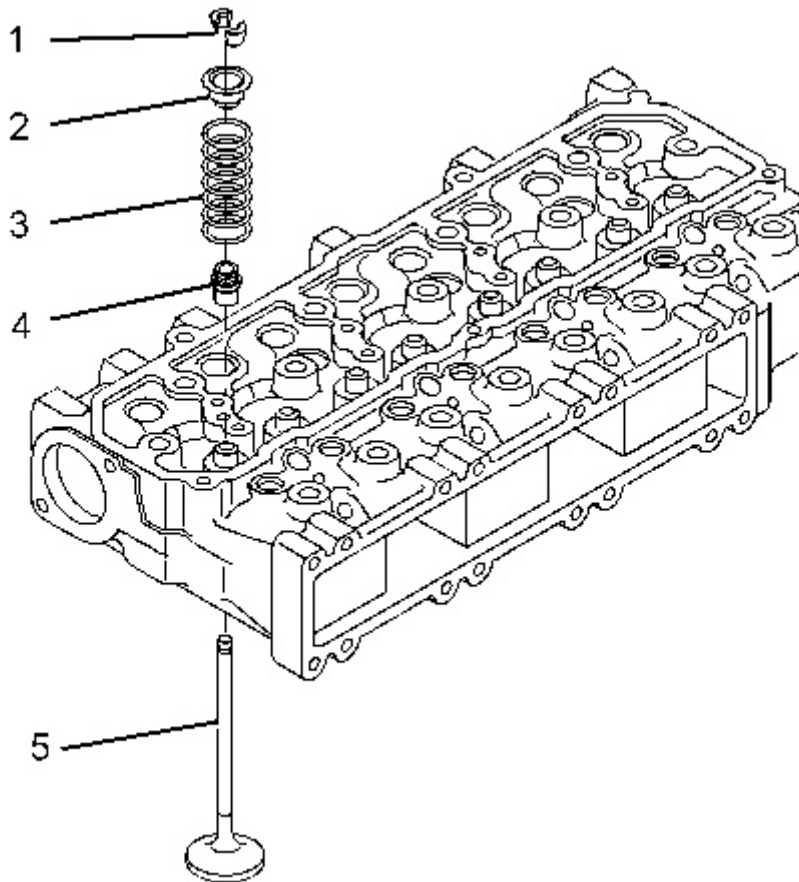


Illustration 2  
Typical example

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3. Use Tooling (A) to compress the appropriate valve spring (3). Remove valve keepers (1).

**Note:** Do not compress the valve spring so that valve spring retainer (2) touches valve stem seal (4).

4. Remove Tooling (A).

5. Remove valve spring retainer (2). Remove valve spring (3).

6. Remove valve (5).

7. Use Tooling (B) to remove valve stem seal (4).

8. Repeat Steps 3 through 7 to remove the remaining inlet and exhaust valves.

### Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-3527	Valve Spring Compressor	1

C	4C-6373	Seal Installer	1
	4C-6366	Valve Guide Driver	1

1. Clean all components of the cylinder head assembly. Ensure that all ports, all coolant passages, and all lubrication passages in the cylinder head are free from debris. Follow Steps 1.a through 1.e to inspect the components of the cylinder head assembly. Replace any components that are worn or damaged.
  - a. Inspect the cylinder head for wear and for damage. Refer to Systems Operation, Testing and Adjusting, "Cylinder Head Inspect".
  - b. Inspect the valve seats for wear and for damage. Refer to Specifications, "Cylinder Head Valves" for further information.
  - c. Inspect the valve guides for wear and for damage. Refer to Specifications, "Cylinder Head Valves" for further information.
  - d. Inspect the valves for wear and for damage. Refer to Specifications, "Cylinder Head Valves".
  - e. Inspect the valve springs for the correct length. Refer to Specifications, "Cylinder Head Valves".

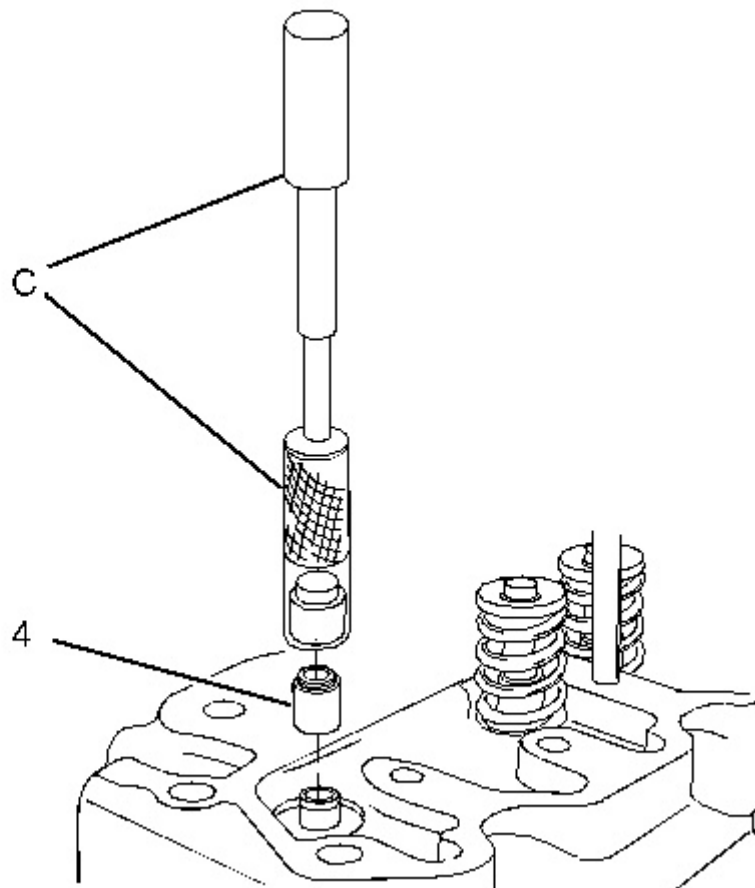


Illustration 3  
Typical example

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