

Product: MINI HYD EXCAVATOR

Model: 305E2 MINI HYD EXCAVATOR H5M

Configuration: 305E2 Mini Hydraulic Excavator H5M00001-UP (MACHINE) POWERED BY C2.4 Engine

Disassembly and Assembly

C2.4 Tier 4 Final Engines for Caterpillar Built Machines

Media Number -UENR7319-02

Publication Date -01/07/2018

Date Updated -01/08/2018

i06523433

Inlet Manifold - Remove and Install

SMCS - 1058-010

Removal Procedure

Start By:

- a. Remove exhaust gas recirculation valve.
- b. Remove fuel injection lines.
- c. Remove fuel manifold (rail).

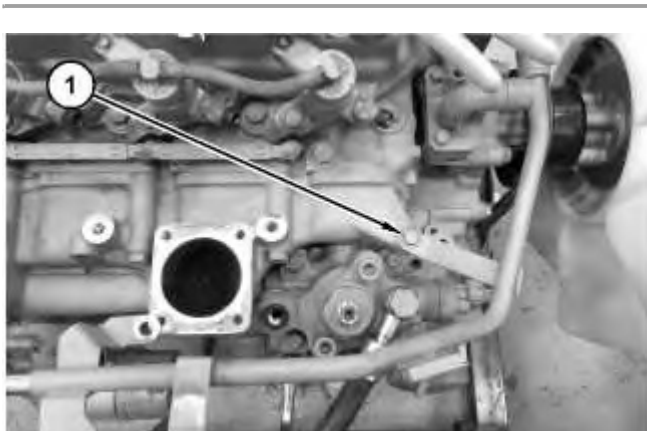


Illustration 1

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1. Remove bolt (1).

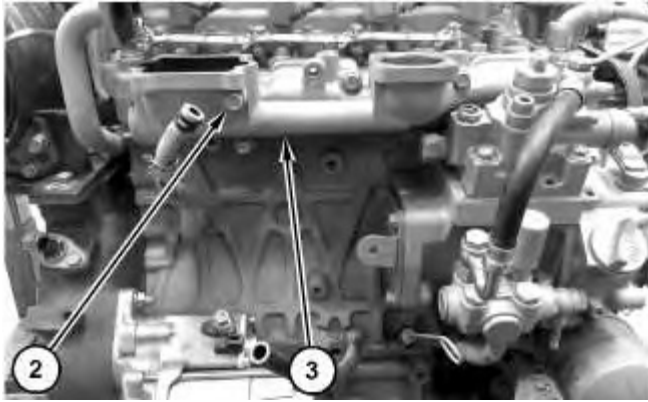


Illustration 2

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2. Remove bolts (2) and inlet manifold (3).

Installation Procedure

1. Install inlet manifold (3) in the reverse order of removal.
-

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i06539555

Inlet and Exhaust Valves - Remove and Install

SMCS - 1105-010

Removal Procedure

Table 1

Required Tooling			
Tool	Part Number	Part Description	Qty
A	5S-1330	Valve Spring Compressor	1

Start By:

- a. Remove cylinder head.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Clean the bottom mating surface 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.
 3. Use a suitable lifting device to position the cylinder head with the valve springs upward. The weight of the cylinder head is approximately 28 kg (61 lb).
-



Illustration 1

g06013564

WARNING

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.

4. Install Tooling (A) in position on the cylinder head and compress the valve spring to remove inlet and exhaust valves (1).



Illustration 2

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NOTICE

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

-
5. Remove valve cap (2). Apply sufficient pressure to Tooling (A) to remove valve keepers (3).
 6. Slowly release pressure on Tooling (A).
 7. Place a temporary identification mark on valve spring (5) to identify the correct position.
 8. Remove valve spring retainer (4), valve spring (5), and valve (6).
 9. Remove Tooling (A).

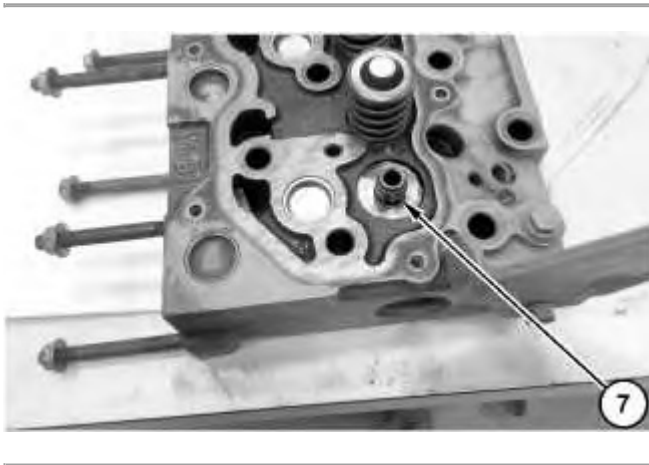


Illustration 3

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10. Remove valve stem seals (7) from the cylinder head.
11. Repeat Step 4 through Step 10 for the remaining valves.

Installation Procedure

1. Install valves (6) in the reverse order of removal.
2. Clean all components of the cylinder head assembly. Ensure that all posts, all coolant passages, and all lubrication passages in the cylinder head are free from debris. Follow Step 2.a through Step 2.e to inspect 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 System Operation, Testing and Adjusting, "Cylinder Head Inspect" for the correct procedure.
 - 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 (6) for wear and for damage. Refer to Specifications, "Cylinder Head Valves" for further information.

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