



Service Repair Manual

Models

442E BACKHOE LOADER

Product: BACKHOE LOADER

Model: 442E BACKHOE LOADER PCR

Configuration: 442E Backhoe Loader PCR00001-UP (MACHINE) POWERED BY C4.4 (MECH) Engine

Disassembly and Assembly C4.4 (Mech) Engines for Caterpillar Built Machines

Media Number -KENR9210-10

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i02763492

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Start By:

- a. Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".
- b. Remove the injectors. Refer to Disassembly and Assembly, "Injector - Remove".
- c. Remove the rocker shaft assembly and the pushrods. Refer to Disassembly and Assembly Manual, "Rocker Shaft and Pushrod - Remove".
- d. Remove the glow plugs. Refer to Disassembly and Assembly, "Glow Plugs - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

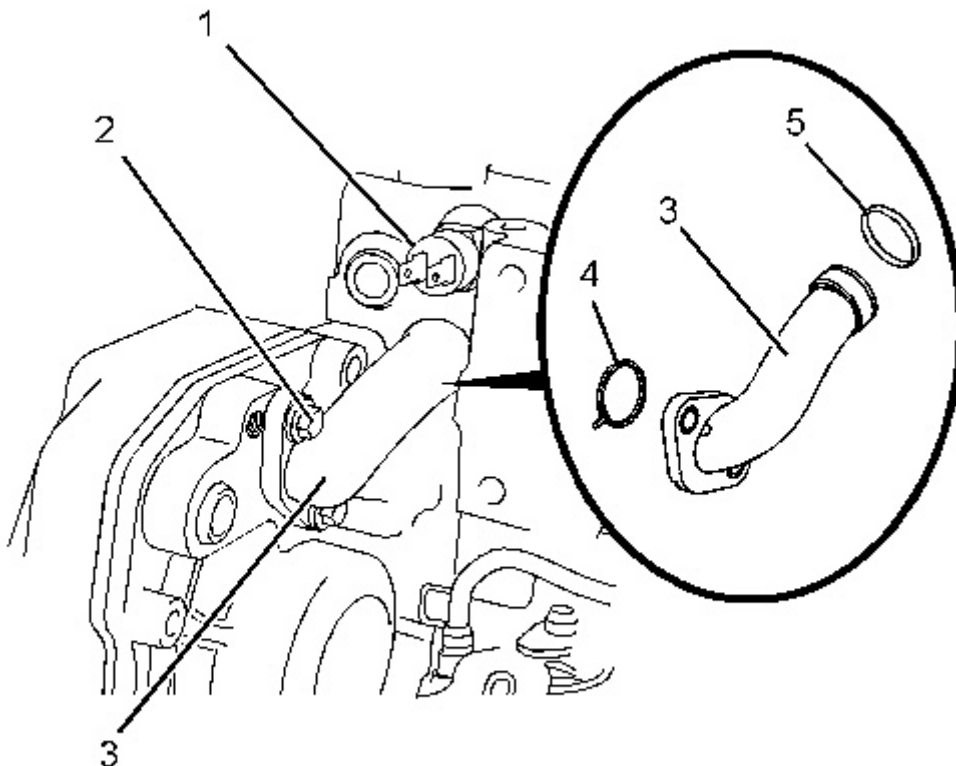
Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers

before opening any compartment or disassembling any component containing fluids.

Dispose of all fluids according to local regulations and mandates.

Note: Put identification marks on all hoses, on all hose assemblies, on wires and on all tube assemblies for installation purposes. Plug all hose assemblies and tube assemblies. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

1. If the alternator bracket is mounted on the cylinder head, remove the alternator. Refer to Disassembly and Assembly, " Alternator - Remove".
 2. If the fuel priming pump and the fuel filter base are mounted on the cylinder head, remove the fuel priming pump and the fuel filter base. Refer to Disassembly and Assembly, "Fuel Priming Pump and Fuel Filter Base - Remove and Install".
 3. Drain the coolant from the cooling system into a suitable container for storage or for disposal. Refer to Operation and Maintenance Manual, "Cooling System Coolant - Change" for the correct draining procedure.
 4. Disconnect the upper radiator hose from the water temperature regulator housing.
 5. If necessary, remove the air hose from the inlet connection.
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6. Disconnect the harness assembly from sensor (1).
7. Remove bolts (2). Remove bypass tube (3) from the cylinder head. Remove O-ring seals (4) and (5).

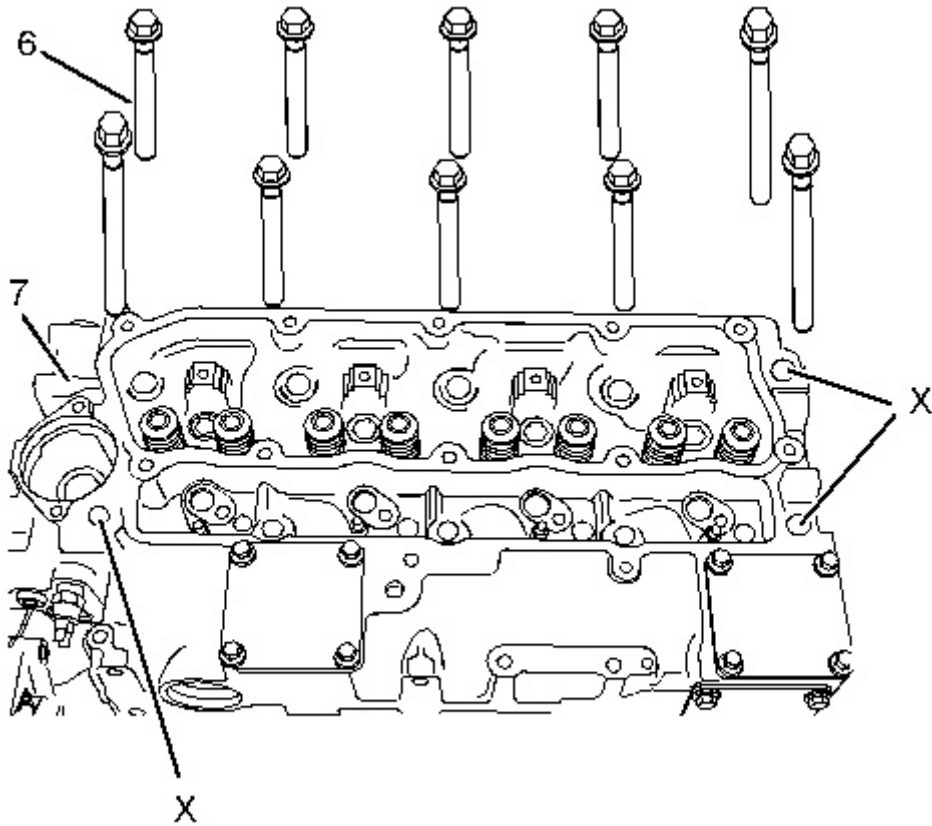


Illustration 2
Typical example

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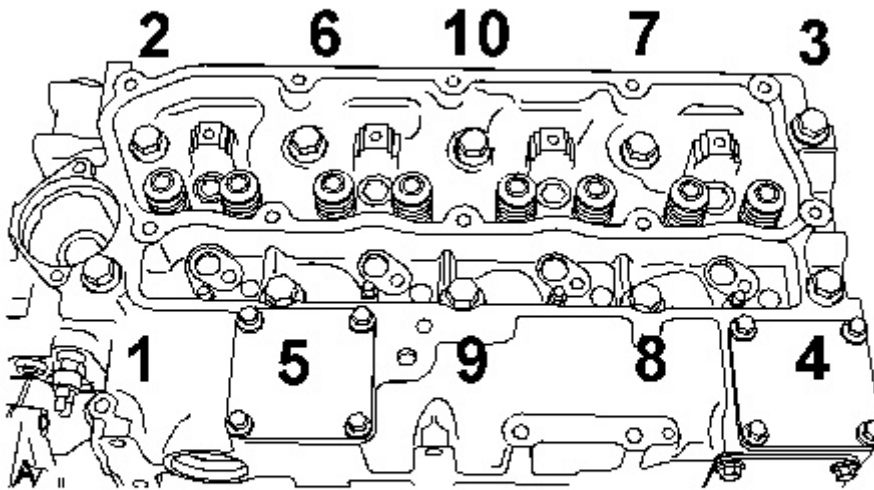


Illustration 3

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Sequence for tightening the bolts for the cylinder head

8. Gradually loosen bolts (6) in the reverse numerical order to the sequence that is shown in Illustration 3.

Note: Follow the correct sequence in order to help prevent distortion of the cylinder head.

9. Remove bolts (6) from cylinder head (7).

Note: The bolts are two different lengths. Note the positions of the different bolts.

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