



Service Repair Manual

Models

16G MOTOR GRADER

Product: MOTOR GRADER

Model: 16G MOTOR GRADER 93U

Configuration: 16G Motor Grader 93U02679-UP (MACHINE) POWERED BY 3406 Engine

Disassembly and Assembly 3406C DIESEL ENGINES FOR CATERPILLAR BUILT MACHINES

Media Number -SEN6409-02

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SEN64090022

Rocker Shaft Assemblies & Push Rods

SMCS - 1102; 1208-012; 1208-011

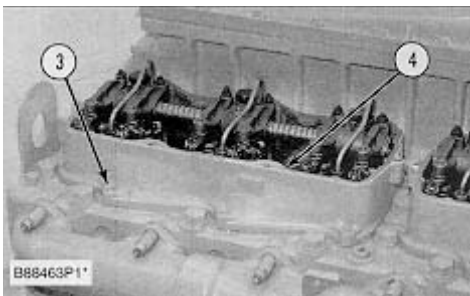
Remove Rocker Shaft Assemblies & Push Rods

Tools Needed		A	B
5P0144	Socket	1	
5P5195	Fuel Line Wrench		1

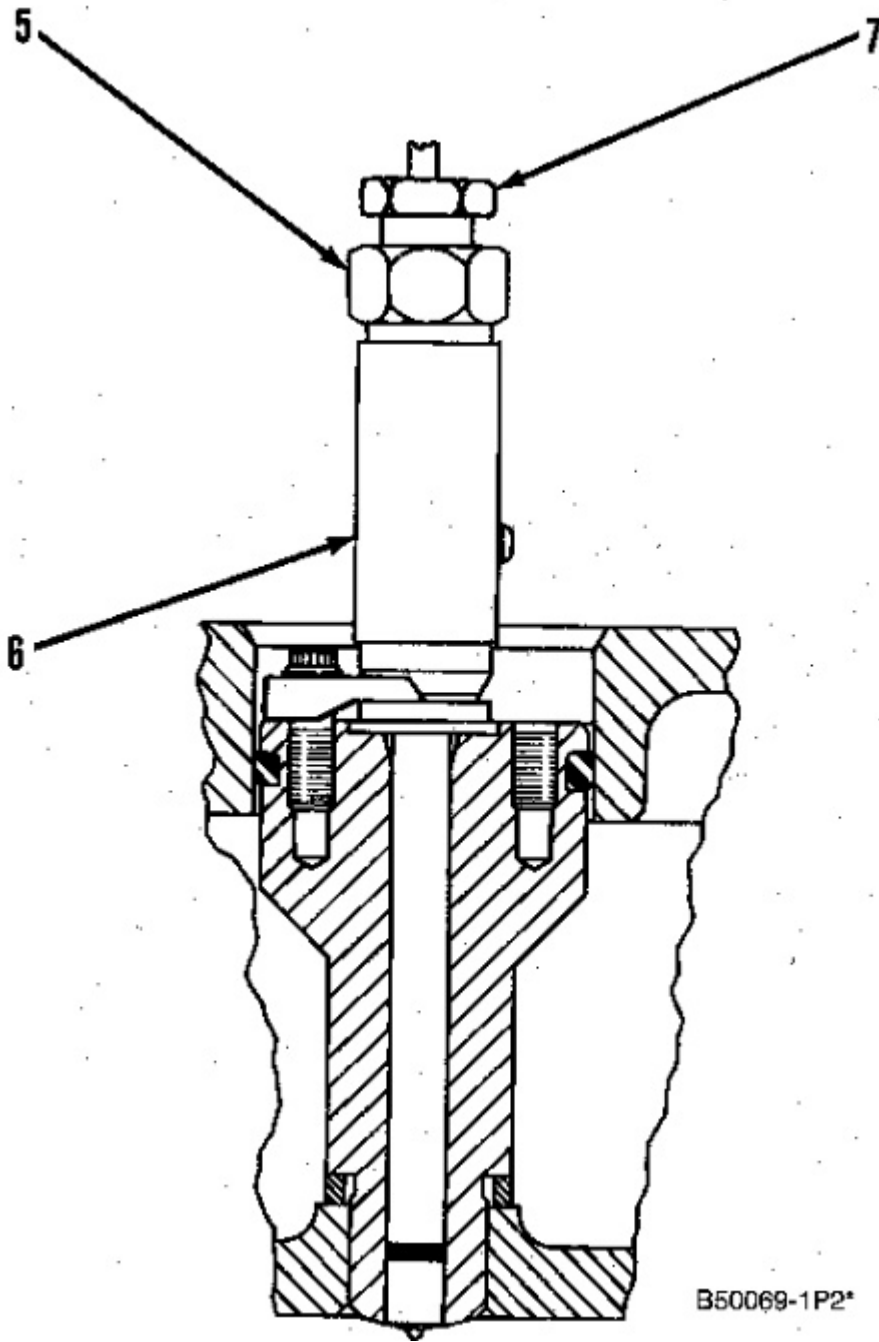
Start By:

a. remove valve covers

NOTE: Call out (1) and (2) are not used in this removal procedure. Call outs begin with number (3).

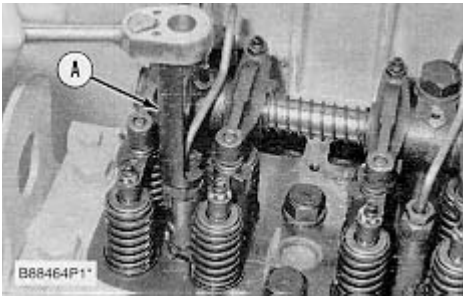


1. Remove bolts (3) that hold the valve cover bases to the cylinder head assembly. Remove valve cover bases (4).

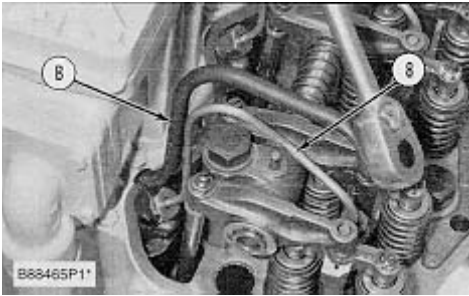


NOTICE

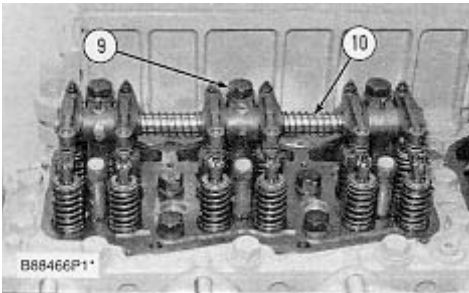
To prevent damage to the fuel injection nozzle, hold adapter assembly (5) in position at the of injection nozzle (6) when fuel line nut (7) is loosened or tightened.



2. Use Tool (A) and a 7/8 5P0328 Crow Foot (in) to loosen the fuel injection line nut at the nozzle end.

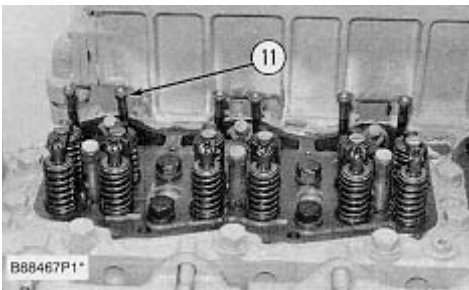


3. Use Tool (B) to loosen the nut at the fuel injection line adapter end. Remove inner fuel injection lines (8). Install caps and plugs on all fuel injection line openings to keep dirt out of the fuel system.

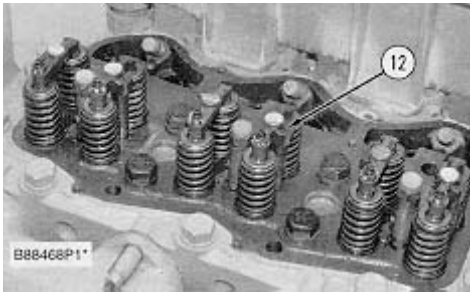


4. Remove bolts (9) that hold the rocker shaft assemblies to the cylinder head assembly.

5. Remove rocker shaft assemblies (10).



6. Put identification marks on the push rods as to their location in the engine. Remove push rods (11).



7. Put identification marks on the bridges as to their location in the engine. Remove bridges (12) from the dowels on the cylinder head assembly.

Install Rocker Shaft Assemblies & Push Rods

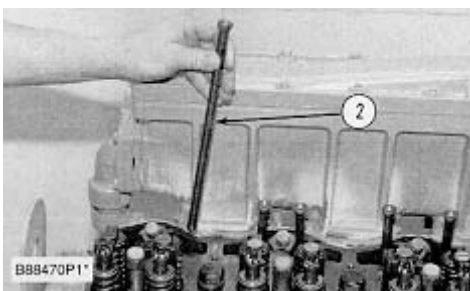
Tools Needed		A	B
5P5195	Fuel Line Wrench	1	
5P0144	Socket		1



1. Put clean engine oil on the bridges and dowels.

NOTE: Install the original bridges in their respective locations. New bridges can be mixed.

2. Install bridges (1) on the bridge dowels. While firmly pressing **0.5 to 4.5 kg (1 to 10 lb)** straight down on the top contact surface of the bridge, turn the adjusting screw clockwise until contact is made with the valve stem. Turn the screw an additional **1/31/2 20 to 30 degrees (to of 1 hex on nut)**. This will straighten the dowel in the guide and compensate for the slack in the threads. Hold the adjusting screw in this position and tighten the locknut to a torque of **30 ± 4 N·m (22 ± 3 lb ft)**.



NOTE: Install the original push rods in their respective locations in the engine. New push rods can be mixed.

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