

Do not let the tops of the fuel nozzles turn when the fuel lines are loosened. The nozzles will be damaged if the top of the nozzles turns in the body.

1. Loosen the fuel injection line nut at the nozzle end with tool (A) and a 7/8 5P0328 (in) Crow Foot Wrench.

2. Loosen the fuel line nut at the fuel injection line adapter with Tool (B). Remove inner fuel injection lines (1). Install caps and plugs on all fuel line openings to keep dirt out of the fuel system.

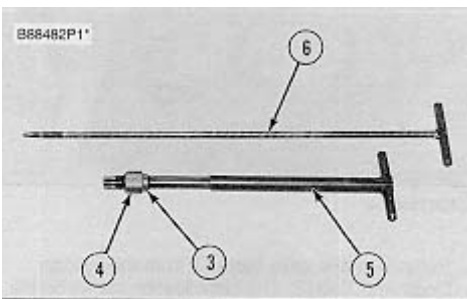


Typical Example

NOTE: If necessary, use Tool (D) to turn the engine so the valves do not make contact with the pistons when the valves are opened with Tool (C) to remove the push rods.

3. Put compression on the valve springs with Tool (C), and remove push rods (2). Put identification marks on the push rods as to their location in the engine.

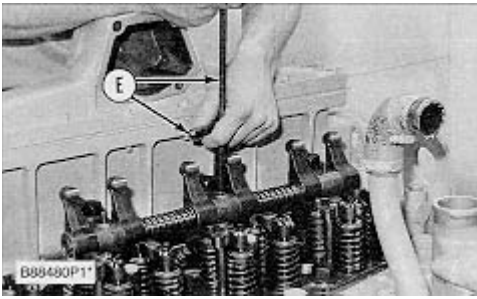
4. Push the push rod end of the rocker arms down.



5. Remove the intake valve lifter with Tool (E) as follows:

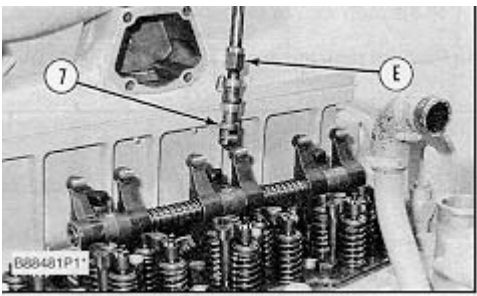
a. Install 5P2685 Nut (3) and 5P6601 Collet (4) on 5P2408 Outer Handle Assembly (5).

b. Install 5P6599 Inner Handle Assembly (6) in 5P2408 Outer Handle Assembly (5).



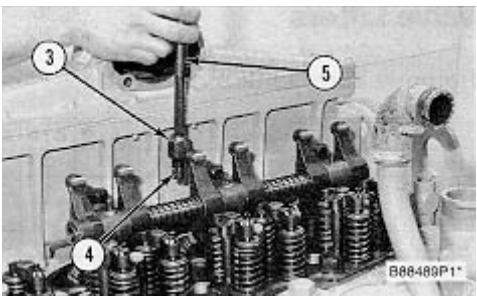
Typical Example

c. Install Tool (E) in the intake valve lifter. Hold the **5P2408 Outer Handle Assembly** and tighten the **5P6599 Inner Handle Assembly** until the **5P6601 Collet** is tight against the inside of the intake valve lifter.



Typical Example

d. Remove intake valve lifters (7) from the cylinder block with Tool (E). Put identification marks on the lifters as to their location in the engine.



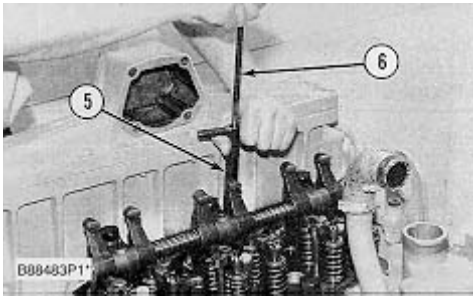
Typical Example

6. Remove the exhaust valve lifters with Tool (E) as follows:

a. Install **5P2685 Nut** (3) and **5P6601 Collet** (4) on **5P2408 Outer Handle Assembly** (5).

NOTE: The opening in the cylinder head assembly for the intake valve lifter is larger than the opening in the exhaust valve lifter side. The tooling and each valve lifter must be installed and removed from the intake valve lifter side.

b. Install the outer handle assembly in the intake valve lifter side of the cylinder head assembly. Slide the flat area of **5P2408 Outer Handle Assembly** (5) through the head casting and install the **5P6601 Collet** in the exhaust valve lifters.

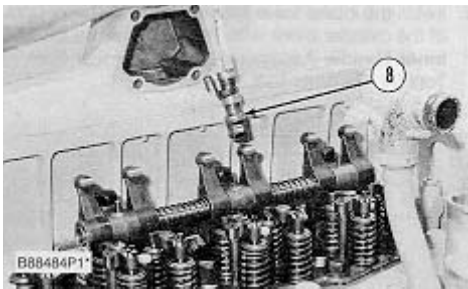


Typical Example

c. Install **5P6599 Inner Handle Assembly** (6) in **5P2408 Outer Handle Assembly** (5). Hold the **5P2408 Handle Assembly** and tighten the **5P6599 Handle Assembly** until the **5P6601 Collet** is tight against the inside of the exhaust valve lifter.

d. Pull the exhaust valve lifter up until the spring on the exhaust valve lifter is free from the cylinder block.

e. Remove the **5P6599 Inner Handle Assembly**. Slide the **5P2408 Outer Handle Assembly** through the head casting and remove it from the intake valve lifter side of the cylinder head.



Typical Example

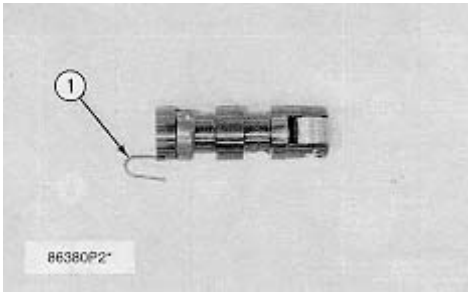
f. Use a magnet and remove exhaust valve lifters (8) from the intake valve lifter side of the cylinder head assembly. Put identification marks on the lifters as to their location in the engine.

7. Remove the guide springs from the lifters.

Install Valve Lifters

Tools Needed		A	B	C	D	E
5P7433	Valve Lifter Tool Group	1				
FT1322	Lever Assembly		1			
9S9082	Engine Turning Pinion			1		
5P0144	Socket				1	
5P5195	Fuel Line Socket					1

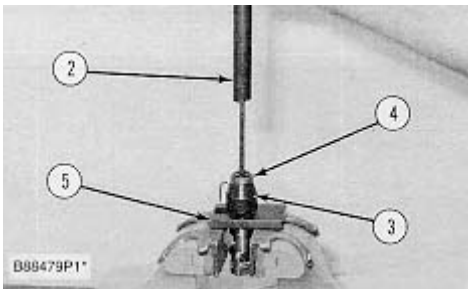
NOTE: Steps 1 and 2 must be done to install intake or exhaust valve lifters.



NOTICE

Make sure guide spring (1) is not damaged or worn. If the guide spring is damaged or worn, replace the guide spring. See Guideline For Reusable Parts, Form No. SEBF8066.

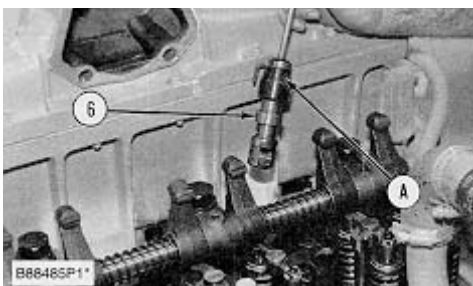
1. Install guide spring (1) on the valve lifters.



2. Put the intake or exhaust valve lifter in position in **5P2395 Holder (5)** of Tool (A). Install **5P2685 Nut (4)** and **5P2400 Compressor (3)** on **5P2408 Outer Handle Assembly (2)**. Install the **5P2400 Compressor** on the lifter over the guide spring.

NOTE: Immerse the lifter assembly in engine oil before installing it in the cylinder block lifter bore.

NOTE: The opening in the cylinder head assembly for the intake valve lifter is larger than the opening in the exhaust valve lifter side. All tooling and valve lifters must be installed and removed from the intake valve lifter side.



Typical Example

3. Install the exhaust valve lifters with Tool (A) as follows:

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