



Service Repair Manual

Models

320E, 320E L and
320E LN Excavator

Product: EXCAVATOR

Model: 320E L EXCAVATOR NAZ

Configuration: 320E, 320E L & 320E LN Excavators NAZ00001-UP (MACHINE) POWERED BY C6.6 Engine

Disassembly and Assembly C6.6 Engines for Caterpillar Built Machines

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Inlet and Exhaust Valve Springs - Remove and Install

SMCS - 1108-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6193	Valve Spring Compressor	1
	416-0288	Adapter	1
	416-0292	Head	1
B ⁽¹⁾	9U-6198	Crankshaft Turning Tool	1
B ⁽²⁾	5P-7306	Housing	1
	5P-7305	Engine Turning Tool	1

⁽¹⁾ The Crankshaft Turning Tool is used on the front pulley.

⁽²⁾ This Tool is used in the aperture for the electric starting motor.

Start By:

- a. Remove the rocker shaft assembly. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Remove" for the correct procedure.

Note: Either Tooling (B) can be used. Use the Tooling that is most suitable.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: The following procedure should be adopted to remove the valve springs when the cylinder head is installed to the engine. Refer to Disassembly and Assembly, "Inlet and Exhaust Valves - Remove and Install" for the procedure to remove the valve springs from a cylinder head that has been removed from the engine.

Note: Ensure that the appropriate piston is at top dead center before the valve spring is removed. Failure to ensure that the piston is at top dead center may allow the valve to drop into the cylinder bore.



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.

NOTICE

Plug the apertures for the push rods in the cylinder head to prevent the entry of loose parts into the engine.

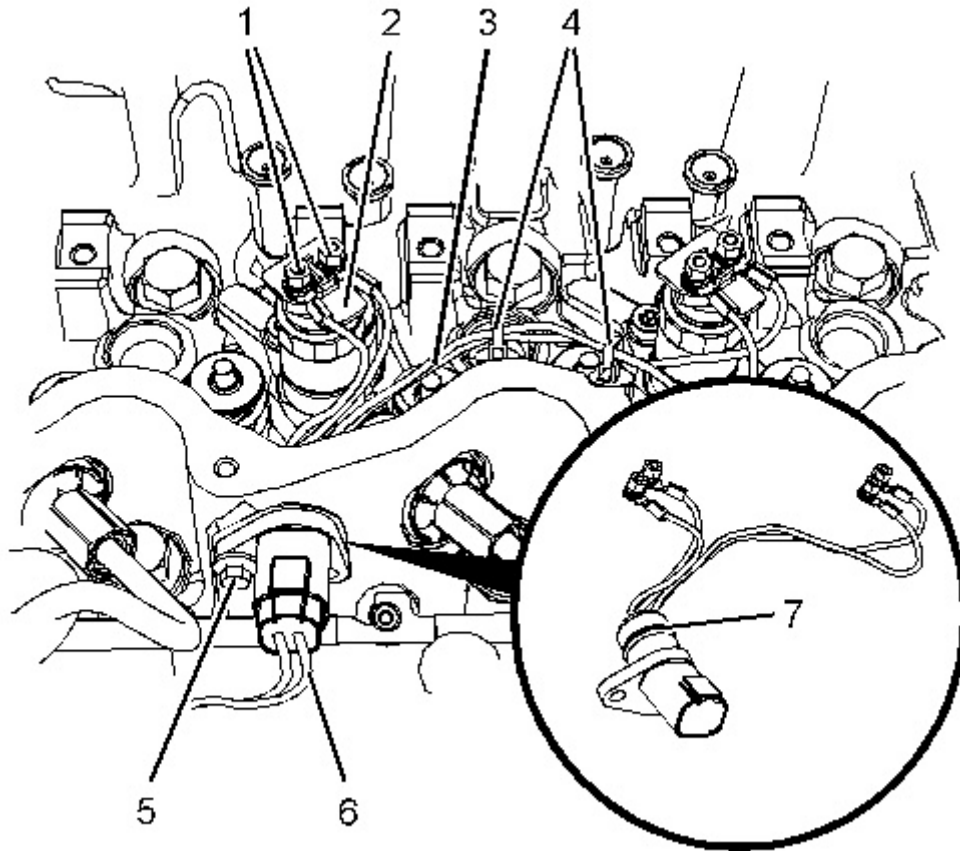


Illustration 1

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1. Follow Step 1.a through Step 1.h to remove the harness assemblies for the electronic unit injectors.
 - a. Place a temporary identification mark on connections (1) for harness assembly (3) for electronic unit injectors (2).
 - b. Use a deep socket to remove connections (1) from electronic unit injectors (2).
 - c. Cut cable straps (4) and remove the remaining sections of the cable straps from the cylinder head.
 - d. Disconnect plug (6) from harness assembly (3).
 - e. Remove bolt (5) from harness assembly (3).
 - f. Withdraw harness assembly (3) from the cylinder head.
 - g. Remove O-ring seal (7) from harness assembly (3).
 - h. Repeat Step 1.a through Step 1.g to remove the remaining harness assemblies.
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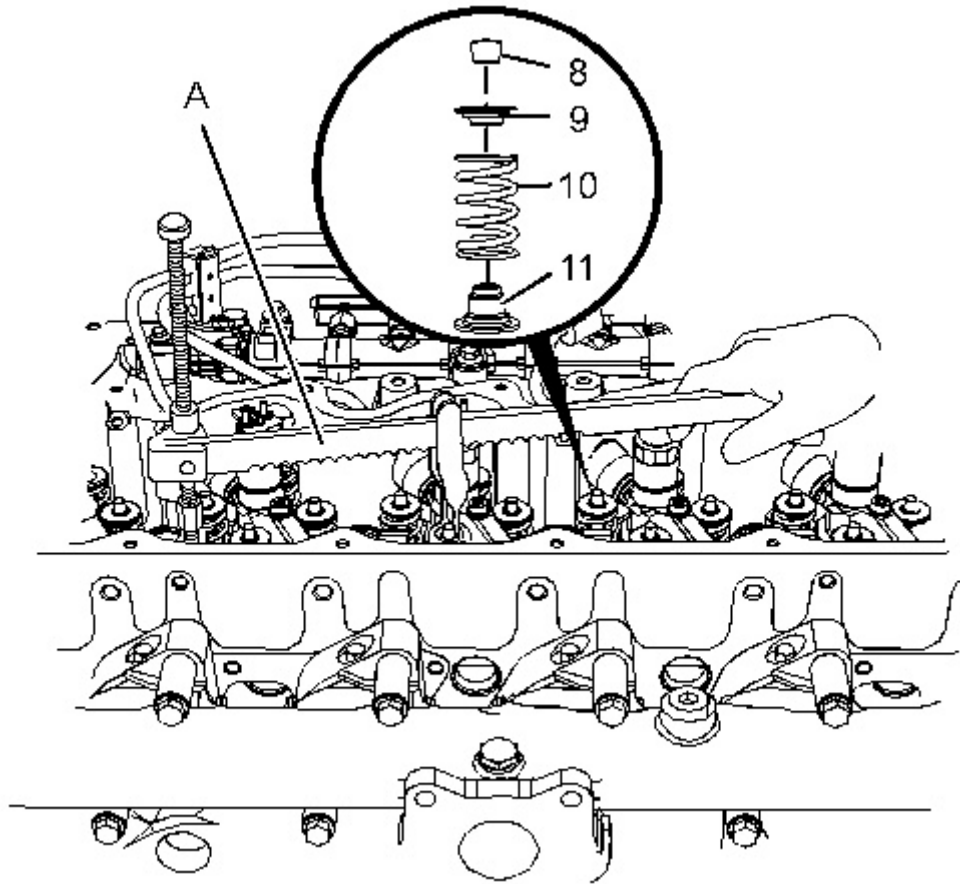


Illustration 2

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NOTICE

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

2. Follow Step 2.a through Step 2.d to position the appropriate piston at top dead center.
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