

Product: EXCAVATOR

Model: 385C L MH EXCAVATOR WAW

Configuration: 385C Material Handler WAW00001-UP (MACHINE) POWERED BY C-18 Engine

Disassembly and Assembly C15 and C18 Engines for Caterpillar Built Machines

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i07372365

Electronic Unit Injector - Install

SMCS - 1290-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	8T-2998	Lubricant	1
C	1U-5718	Vacuum Pump	1
	169-7372	Fluid Sampling Bottle	1
	4C-4057	Tube 7.9 mm (0.31 inch) OD	1
D	4C-5552	Large Bore Brush	1
E	4C-6774	Vacuum Gun Kit	1
F	8T-7765	Surface Reconditioning Pad	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Use Tooling (C) to remove the fuel and oil from the cylinder. Evacuate as much fuel and oil as possible from the cylinder before installing the electronic unit injector. Several evacuations may be necessary.
2. Use Tooling (D) to clean the carbon deposit from the inside the electronic unit injector sleeve. Tooling (E) is available to clean loose material from the bore of the electronic unit injector sleeve and the cylinder.
3. Use Tooling (F) to clean the carbon from the seat area that is inside the electronic unit injector sleeve.
4. Install the O-ring seals on the electronic unit injector. Lubricate the top two O-ring seals with a 50/50 mixture of clean engine oil and Tooling (B).

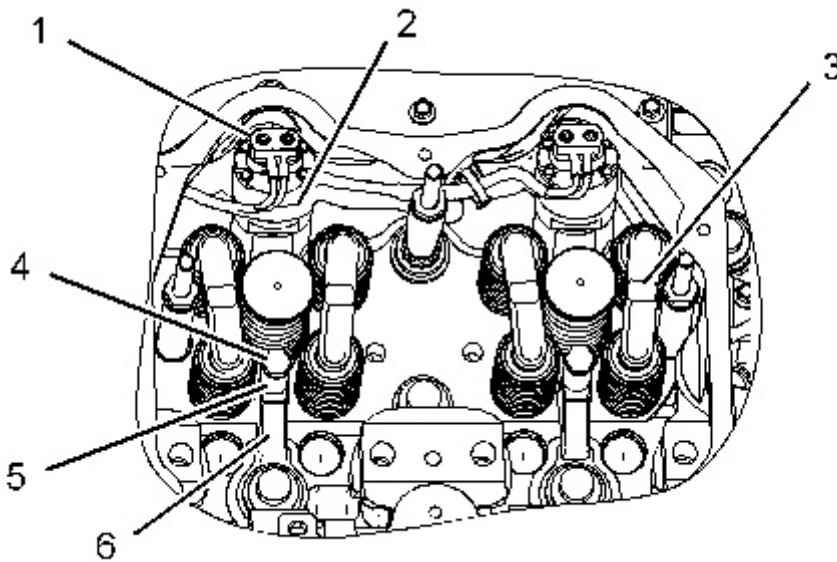


Illustration 1

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NOTICE

When an electronic unit injector is replaced, the new electronic injector code must be programmed into the engine's personality module software by using the calibration menu on the Electronic Service Tool. If the new electronic injector code is not entered, the characteristics of the previous electronic unit injector is assumed.

If it is not possible to immediately reprogram the electronic injector code into the personality module software, the engine will not be severely harmed. The new electronic injector code should be reprogrammed as quickly as possible in order to optimize engine performance.

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5. Install electronic unit injector (2) into the original location in the cylinder head.

6. Install spacer (5), clamp (6), and bolt (4). Tighten the bolt to a torque of $55 \pm 10 \text{ N}\cdot\text{m}$ ($41 \pm 7 \text{ lb ft}$).

7. Install bridge assemblies (3) in the respective locations.

Note: Be sure that the larger hole on the bridge assembly is installed towards the rocker.

8. Connect harness assembly (1) on electronic unit injector (2). Tighten the nuts to a torque of $2.5 \pm 0.25 \text{ N}\cdot\text{m}$ ($22 \pm 2 \text{ lb in}$).

End By:

a. Install the rocker arms and the rocker arm shaft. Refer to Disassembly and Assembly, "Rocker Arm and Shaft - Install".

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