



# Service Repair Manual

## **Models**

349E L and 349E L VG  
Excavator

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Product: EXCAVATOR

Model: 349E L EXCAVATOR ETC

Configuration: 349E L & 349E L-VG Excavators ETC00001-UP (MACHINE) POWERED BY C13 Engine

## Disassembly and Assembly

### C13

#### Engines for Caterpillar Built Machines

Media Number -KENR8150-05

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i03531892

## Electronic Unit Injector Sleeve - Remove and Install

SMCS - 1713-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6891	Injector Tool Group	1
B	9U-6862	Tapered Brush	1
	9U-6863	Small Bore Brush	1
	9U-7244	End Brush	1
	9U-7237	Brush Extension	1
	4C-5552	Large Bore Brush	1
C	4C-9507	Retaining Compound	-

#### Start By:

- a. Remove the electronic unit injectors.
  1. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change" for the correct draining and filling procedures.
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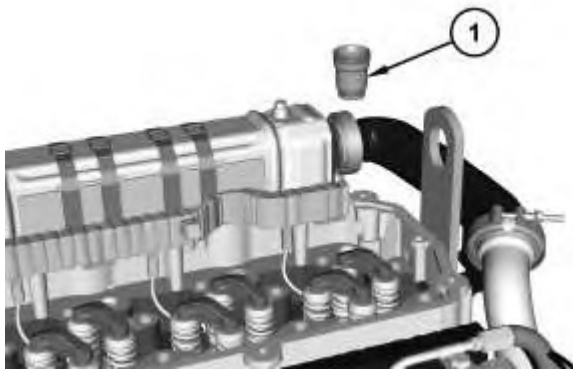


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Illustration 1

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2. Install Tooling (A) into electronic unit injector sleeve (1).
  3. Tighten the nut until electronic unit injector sleeve (1) is pulled free of the cylinder head assembly.
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Illustration 2

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4. Remove electronic unit injector sleeve (1).

## Installation Procedure

1. Use Tooling (B) to clean the bore in the cylinder head for the electronic unit injector sleeve.
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### NOTICE

**Ensure that the electronic unit injector sleeve and the cylinder head bore are completely free of oil, dirt, and sealant debris.**

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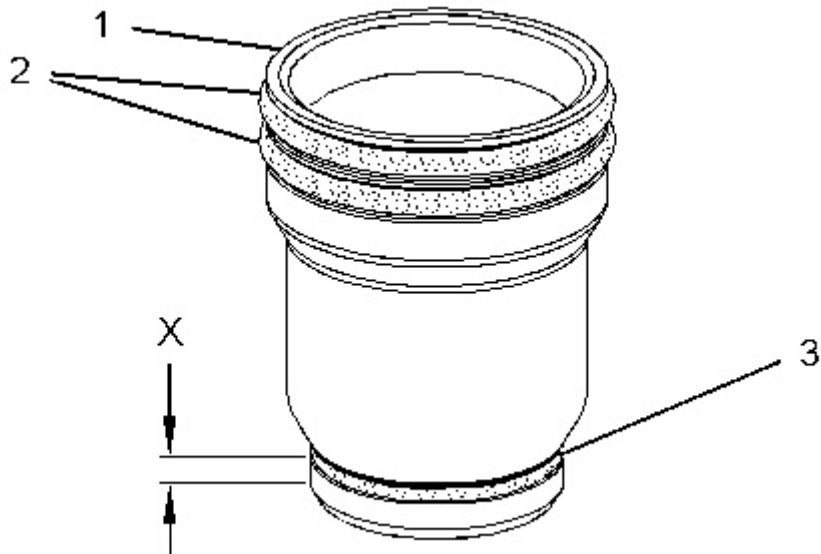


Illustration 3

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2. Install new O-ring seals (2) and (3) on electronic unit injector sleeve (1).

**Note:** Do not apply Tooling (C) to the cylinder head surfaces. Apply Tooling (C) on the electronic unit injector sleeve only.

3. Apply a thin coat of Tooling (C) to O-ring seal (3) and the contact surface of electronic unit injector sleeve (1) on the surface that is Marked "X".



Illustration 4

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4. Install Tooling (A) into the threads of electronic unit injector sleeve (1).
5. Position Tooling (A) and the electronic unit injector sleeve in the cylinder head. Use care not to damage the O-ring seal on the electronic unit injector sleeve.

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**NOTICE**

**Ensure that the electronic unit injector sleeve is properly seated in the cylinder head. The Tooling will "RING" when the electronic unit injector sleeve is fully seated in the bore of the cylinder head.**

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6. Use Tooling (A) and a hammer to install electronic unit injector sleeve (1) in the cylinder head.
7. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change" for the correct draining and filling procedures.

**End By:**

- a. Install the electronic unit injectors.
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