



# Service Repair Manual

## **Models**

# 352F Excavator

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Product: EXCAVATOR

Model: 352F EXCAVATOR RBF

Configuration: 352F Excavator RBF00001-UP (MACHINE) POWERED BY C13 Engine

## Disassembly and Assembly C13 Engine for Caterpillar Built Machines

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i06938734

# Electronic Unit Injector - Remove and Install

SMCS - 1290-010

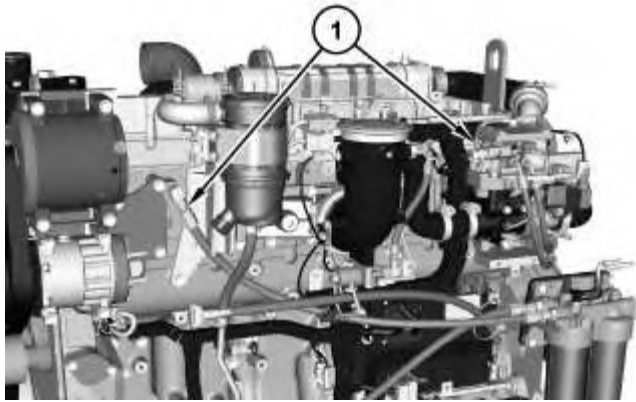
## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	5F-4764	Pry Bar	1
B	9U-6862	Tapered Brush	1
	9U-7237	Brush Extension	1
C	9U-6863	Small Bore Brush	1
	9U-7237	Brush Extension	1
D	8T-2998	Lubricant	1
E	1U-5718	Vacuum Pump	1
	169-7372	Fluid Sampling Bottle	-
	4C-4057	Tube 7.9 mm (0.31 inch) OD	-

### Start By:

- a. Remove the rocker arms and shafts.
  1. Turn the fuel supply to the "OFF" position.
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Illustration 1

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2. Disconnect hose assemblies (1).
3. Drain the fuel from the cylinder head.



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Illustration 2

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4. Disconnect harness assembly (2) from electronic unit injector (3).
  5. Remove bolt (4).
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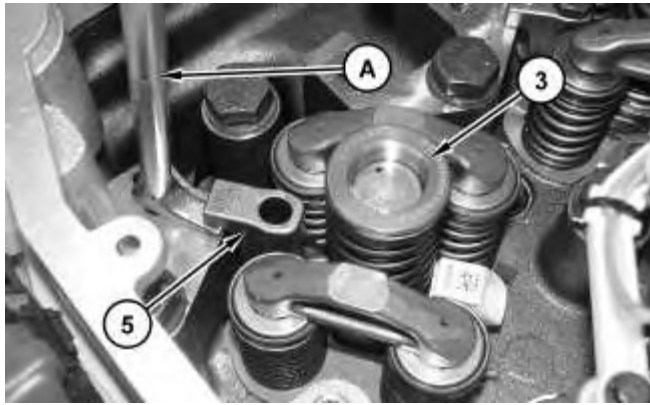


Illustration 3

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6. Position Tooling (A) under clamp (5) to remove electronic unit injector (3).

## Installation Procedure

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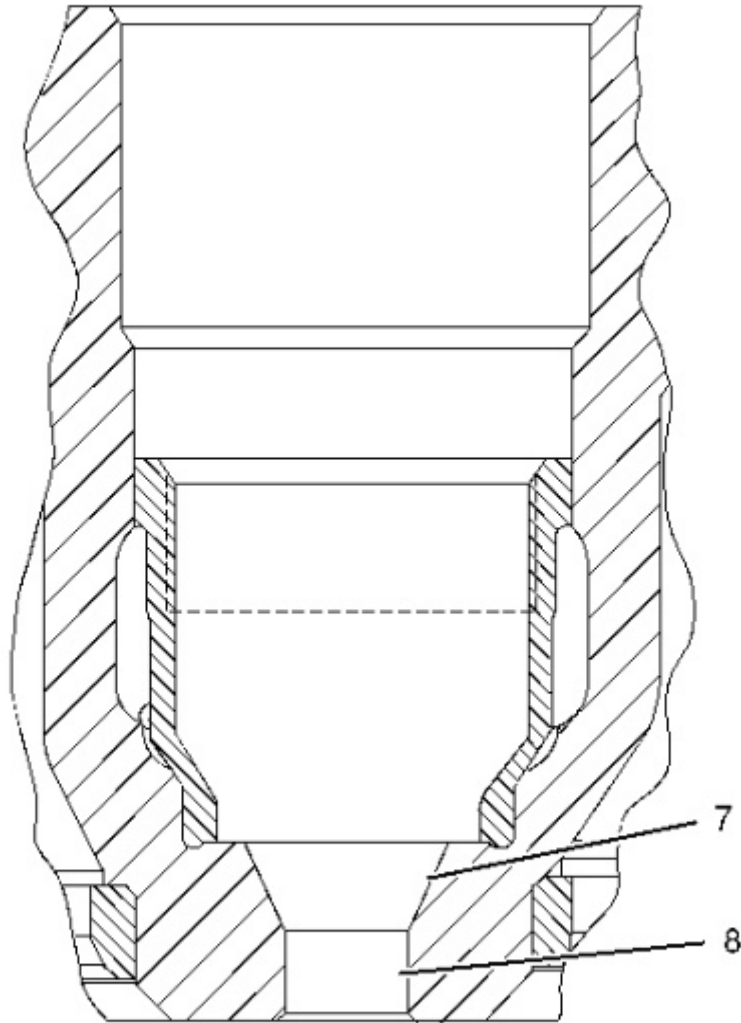
### NOTICE

**When a fuel injector group is serviced, the new fuel injector group's 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 fuel injector group's electronic code is not entered, the previous fuel injector group's characteristics are assumed.**

**If it is not possible to immediately reprogram the electronic injector code of the injector 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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1. Install electronic unit injector (3) in the reverse order of removal.
    - a. Use Tooling (E) 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.
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Illustration 4

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(7) Injector seating

(8) Tip bore

- b. Use Tooling (B) to clean injector seating (7).
  - c. Use Tooling (C) to clean tip bore (8).
  - d. Lubricate the seals lightly with a 50/50 mix of clean engine oil and Tooling (D).
  - e. Tighten bolt (4) to a torque of  $70 \pm 15 \text{ N}\cdot\text{m}$  ( $52 \pm 11 \text{ lb ft}$ ).
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