



# Service Repair Manual

## **Model**

320B EXCAVATOR

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Product: EXCAVATOR

Model: 320B EXCAVATOR 9KR

Configuration: 320B TRACK-TYPE EXCAVATOR 9KR00001-UP (MACHINE) POWERED BY 3066 ENGINE

## Disassembly and Assembly

### 320B, 320B L, 320B LN, 320B N, & 320B S EXCAVATORS MACHINE SY

Media Number -SEN9257-06

Publication Date -01/04/2004

Date Updated -18/01/2017

SEN92570011

## Counterweight

SMCS - 7056-010

### Remove & Install Counterweight

Tools Needed		A	B
9U-5986	Eyebolt (M30 x 3.5)	2	
1U-7630	Socket Assembly		1

Start By:

a. remove hood assembly\*

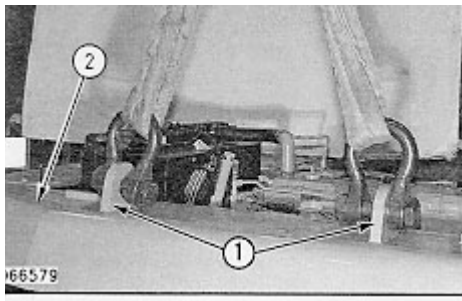
\*This operation is in the appropriate Engine Supplement For 320B, 320B L and 320B N Hydraulic Excavators.

1. Start the machine, and place the bucket on the ground.

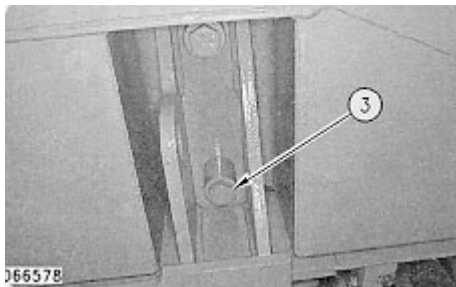
**NOTE:** The counterweight may be equipped with lifting brackets or threaded holes for the use of forged eyebolts for lifting purposes.

2. The counterweights with threaded holes. Use Tool (B) to remove two caps from the top of the counterweight.

3. Make sure the threaded holes in the top of the counterweight are clean prior to the installation of Tooling (A). Install Tooling (A) in the threaded holes of counterweight. Make sure eyebolts [Tooling (A)] are completely threaded in the threaded holes in the counterweight. Fasten a hoist to Tooling (A).



4. Fasten a hoist to the lifting brackets (1) on counterweight (2) as shown.



View From Under Counterweight

5. Remove four mounting bolts (3) and the spacers that hold the counterweight to the main frame of the machine. Remove the counterweight. The weight of the counterweight (standard) is approximately **3127 kg (6895 lb)**. The weight of the counterweight (heavy) is approximately **3580 kg (7893 lb)**.

**NOTE:** The following steps are for the installation of the counterweight.

6. Put **4C-5592 Anti-Seize Compound** on the threads of four mounting bolts (3). Also, apply **4C-5592 Anti-Seize Compound** between the bolt heads and the spacers.

7. Install the counterweight in the reverse order of the removal steps.

8. On counterweights equipped with threaded holes for forged eyebolts, tighten the two caps to a torque of **12 ± 4 N\*m (9 ± 3 lb ft)**.

End By:

a. install hood assembly\*

\*This operation is in the appropriate Engine Supplement For 320B, 320B L and 320B N Hydraulic Excavators Disassembly & Assembly module.

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## Disassembly and Assembly

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Media Number -SEN9257-06

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SEN92570012

## Fuel Tank

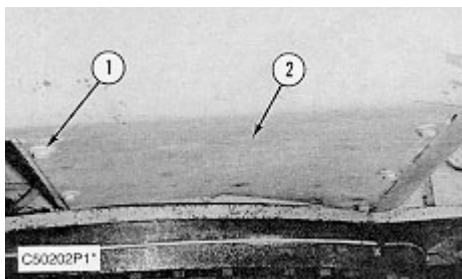
SMCS - 1273-010

## Remove & Install Fuel Tank

Tools Needed	A
138-7573 Link Bracket	2

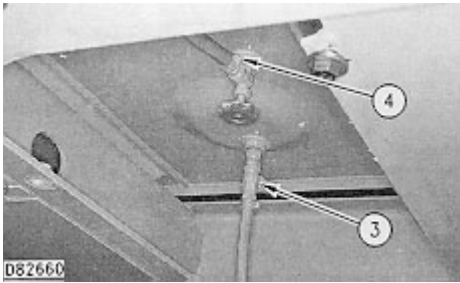
### Fluid Spillage Containment

Care must be taken to ensure that the fluids are contained during performance of the inspection, the maintenance, the testing, the adjusting and the repair of the machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids. Refer to the "Tools And Shop Products Guide, NENG2500" the tools and the supplies suitable to collect and contain any of the fluids in Caterpillar machines. Dispose of the fluids according to local regulations and mandates.



View From Under Fuel Tank

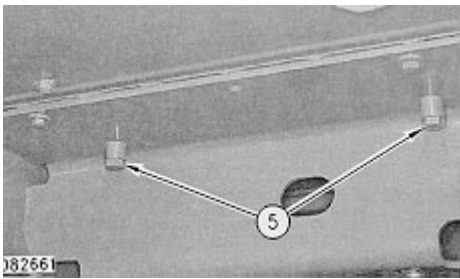
1. Remove five bolts (1), the washer and cover plate (2) from under the fuel tank.



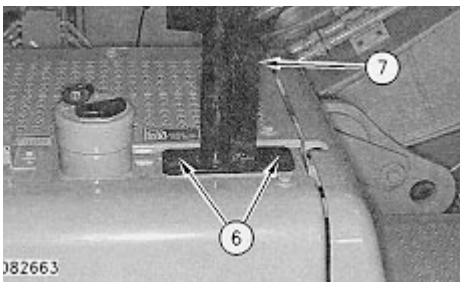
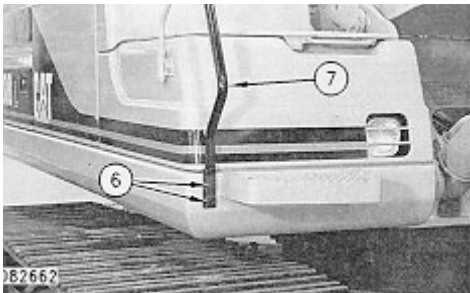
View From Under Fuel Tank

2. Open drain valve (3), and drain the fuel from the fuel tank in a suitable container for storage or disposal. The capacity of the fuel tank can range from **290 to 310 liters (77 to 82 U.S. gal)**.

3. Close the fuel valve, and remove hose assembly (4).



4. Remove four bolts (5) that secure the fuel tank to the frame.



5. Remove four bolts (6) and the washers the hold the hand rail (7) to the machine.

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