



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

SENR92570011

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*

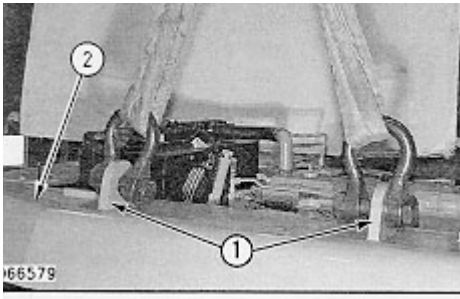
*This operation is in the appropriate Engine Supplement For 320B, 320B L and 320B N Hydraulic Excavators.

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

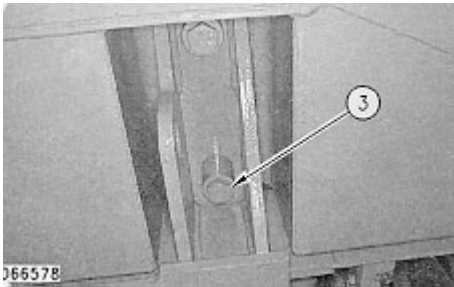
NOTE: The counterweight may be equipped with lifting brackets or threaded holes for the use of forged eyebolts for lifting purposes.

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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Media Number -SEN9257-06

Publication Date -01/04/2004

Date Updated -18/01/2017

SEN92570012

Fuel Tank

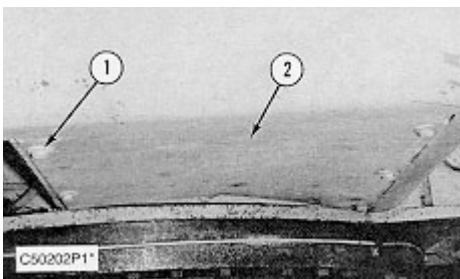
SMCS - 1273-010

Remove & Install Fuel Tank

Tools Needed	A
138-7573 Link Bracket	2

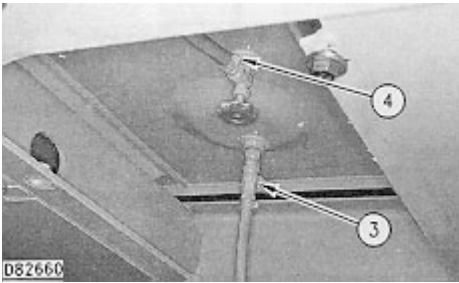
Fluid Spillage Containment

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

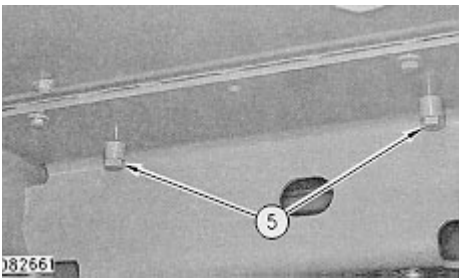
1. Remove five bolts (1), the washer and cover plate (2) from under the fuel tank.



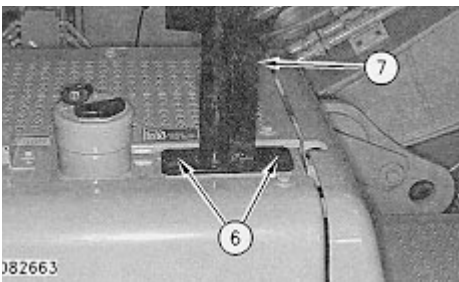
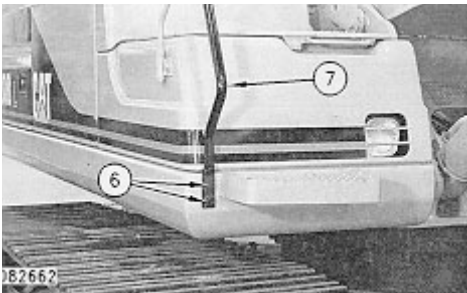
View From Under Fuel Tank

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)**.

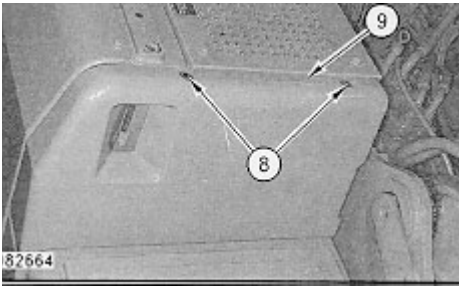
3. Close the fuel valve, and remove hose assembly (4).



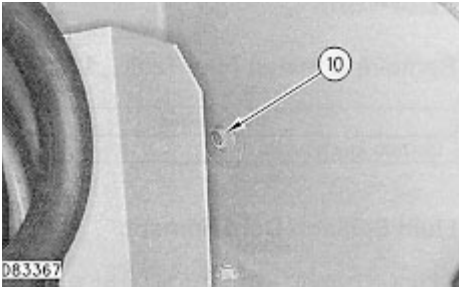
4. Remove four bolts (5) that secure the fuel tank to the frame.



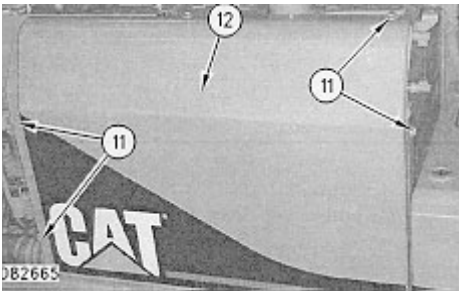
5. Remove four bolts (6) and the washers the hold the hand rail (7) to the machine.



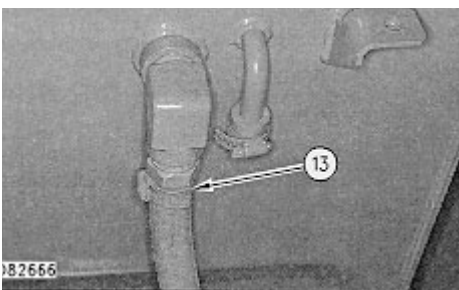
6. Remove two bolts (8) and the washers that hold cover (9). Remove cover (9).



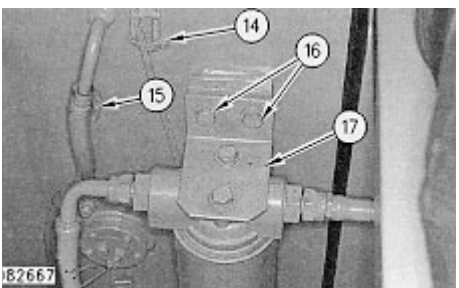
7. Open the storage compartment, and remove bolt (10) and the washer from the side of the fuel tank.

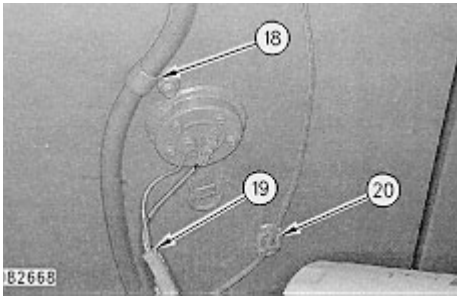


8. Remove six bolts (11) and the washers that secure cover (11). Remove cover (12).



9. Remove hose (13) from the front of the fuel tank.



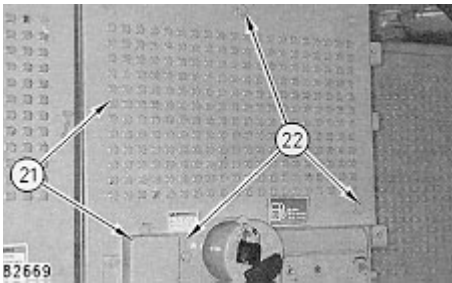


10. Remove tie straps (14) and hose clamp (15).

11. Remove two bolts (16) and the washers and oil filter assembly (17) from the back of the fuel tank.

12. Remove P-clamp (18) and tie strap (20).

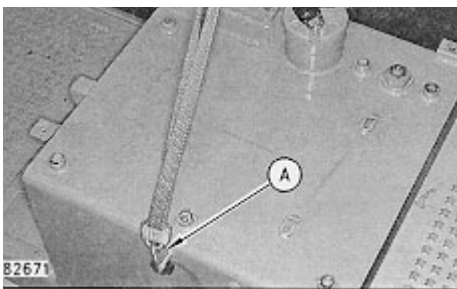
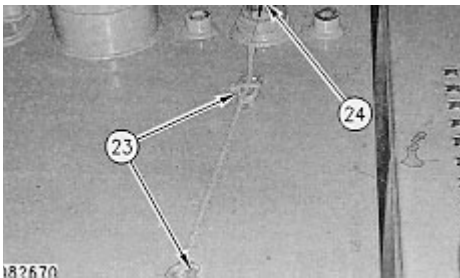
13. Disconnect electrical connector (19).



14. Remove six bolts (22) that secure two covers (21) on the fuel tank.

15. Remove two covers (21).

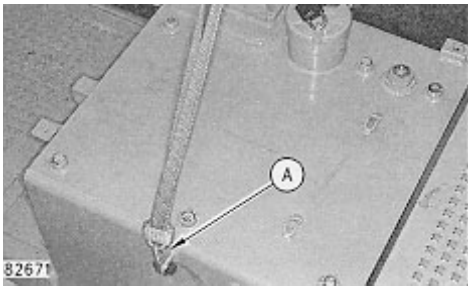
16. Remove two tie straps (23), and disconnect electrical terminal (24).



21. Attach Tooling (A) to the fuel tank as shown.

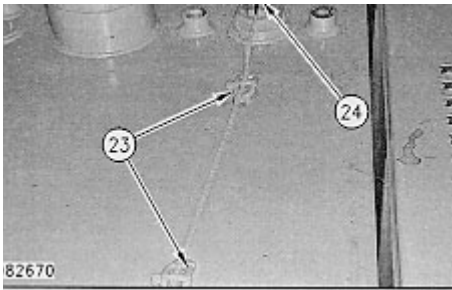
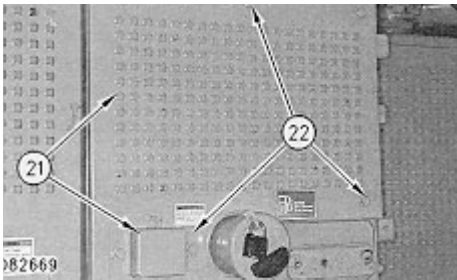
22. Using a hoist lift the fuel tank from the machine. The weight of the fuel tank is **92 kg (210 lb)**.

NOTE: The following steps are for the installation of the fuel tank.



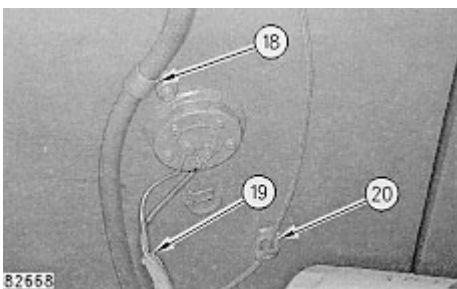
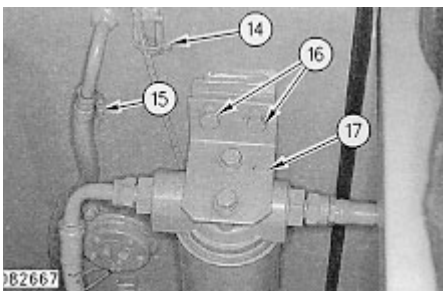
23. Attach Tooling (A) to the fuel tank.

24. Using a hoist lift the fuel tank to the machine. The weight of the fuel tank is **92 kg (210 lb)**.



25. Position two covers (21) on the fuel tank, and install six bolts (22).

26. Connect electrical terminal (24), and secure two tie straps (23) on the wiring harness.

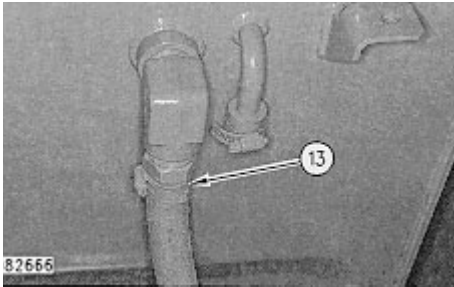


27. Position oil filter assembly (17) to the back of the fuel tank, and install two bolts (16) and the washers to secure oil filter assembly (17) to the back of the fuel tank.

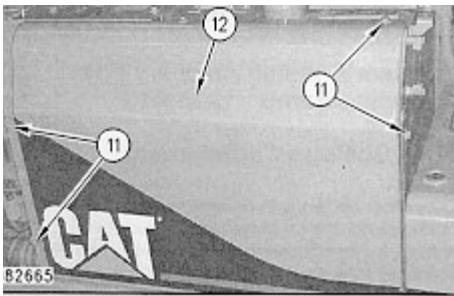
28. Connect electrical connector (19).

29. Install tie straps (14) and hose clamp (15).

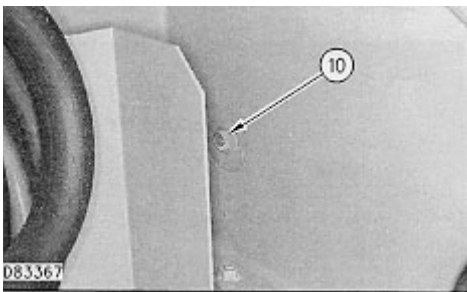
30. Install P-clamp (18) and tie strap (20).



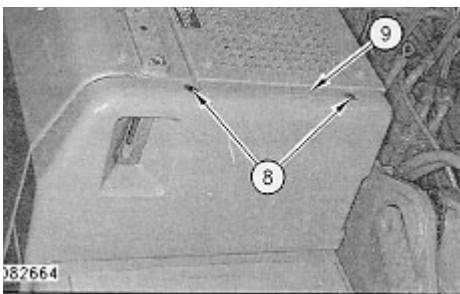
31. Install hose (13) to the front of the fuel tank.



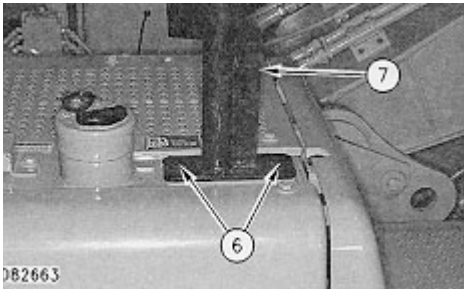
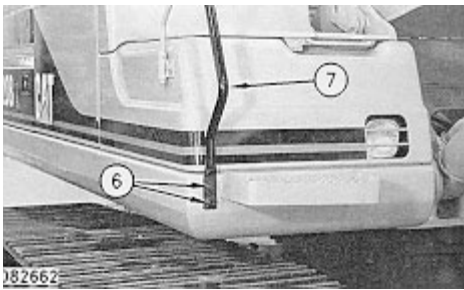
32. Position cover (11), and secure with six bolts (11) and the washers.



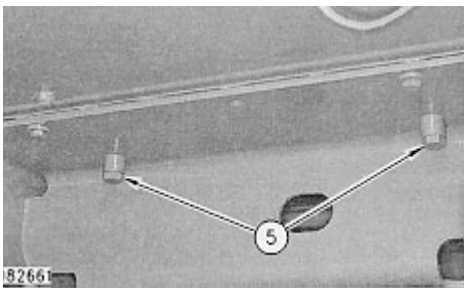
33. In the storage compartment, and install bolt (10) and the washer to the side of the fuel tank.



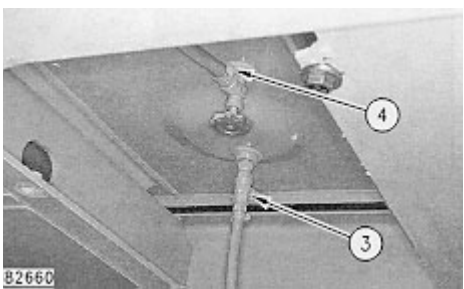
34. Position cover (9), and install two bolts (8) and the washers.



35. Put hold hand rail (7) in position on the machine and secure with four bolts (6) and the washers.

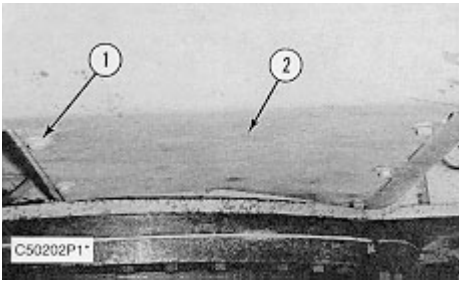


36. Install four bolts (5) that secure the fuel tank to the frame.



View From Under Fuel Tank

37. Install hose assembly (4) to the bottom of the fuel tank.



View From Under Fuel Tank

38. Install cover plate (2) under the fuel tank, and install five bolts (1) and the washers.

NOTE: Refer to the topic "Lubricant Viscosities and Refill Capacities" in the "Operation & Maintenance Manual" for the proper filling procedure and the proper levels for the fuel system.

39. Close the drain valve and the fuel supply line on the fuel tank, and fill the fuel tank with fuel.

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Disassembly and Assembly

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

Media Number -SEN9257-06

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SEN92570013

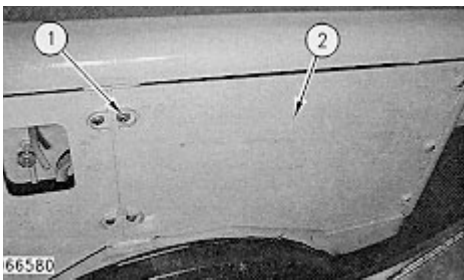
Auxiliary Fuel Refueling Pump

SMCS - 1295-010

Remove & Install Auxiliary Fuel Refueling Pump

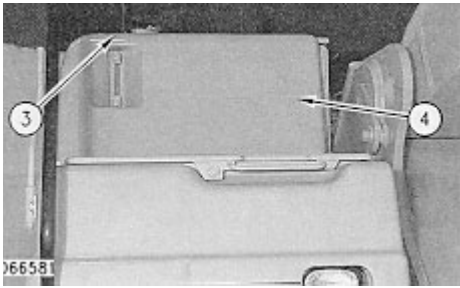
Fluid Spillage Containment

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and 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 "Tools And Shop Products Guide, NENG2500" for tools and the supplies suitable to collect and contain fluids in Caterpillar machines. Dispose fluids according to local regulations and mandates.

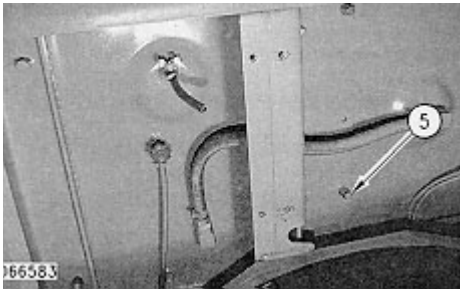


View From Under Auxiliary Fuel Tank

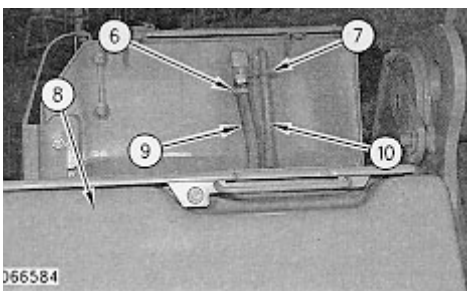
1. Remove five bolts (1) and the washers that hold cover plate (2) in position under the auxiliary fuel tank. Remove the cover plate.
2. Drain the fuel from the fuel tank into a suitable container for storage or disposal. The capacity of the fuel tank is **340 liters (92 U.S. gal)**.



3. Remove two bolts (3), the washers and the spacers that hold cover (4) in position over the fuel tank. Remove the cover from the machine.



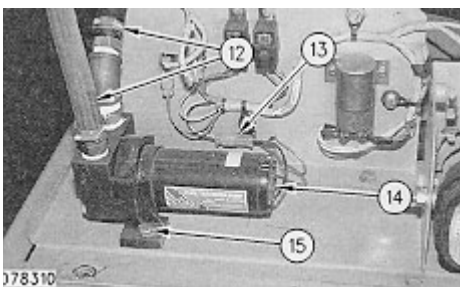
4. Remove four bolts (5) that hold the fuel tank cover and the fuel tank to the frame of the machine.



5. Remove clamp (6), and disconnect hose assembly (9) from the fuel tank.

6. Remove clamp (7), and disconnect hose assembly (10) from the fuel tank.

7. Remove the fuel tank cover (8) from the machine.



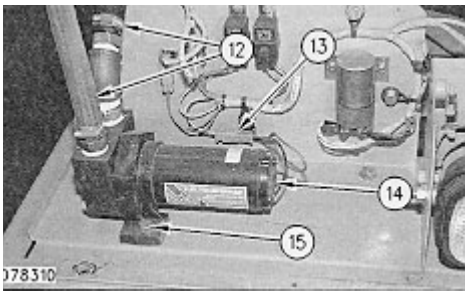
8. Remove bolt (11), the washer and the clamp, not shown, that hold hose assemblies (12) in position.

9. Disconnect two hoses (12) from auxiliary fuel refueling pump (14).

10. Disconnect electrical connector (13) at the front of the fuel tank.

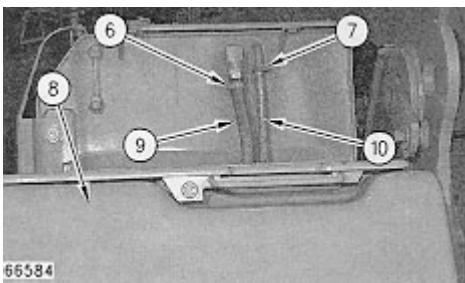
11. Remove two bolts (15) and the washers that hold auxiliary fuel refueling pump (14) and its mounting bracket to the machine. Remove the auxiliary fuel refueling pump and the mounting bracket, as a unit, from the machine.

NOTE: The following steps are for the installation of the auxiliary fuel refueling pump.



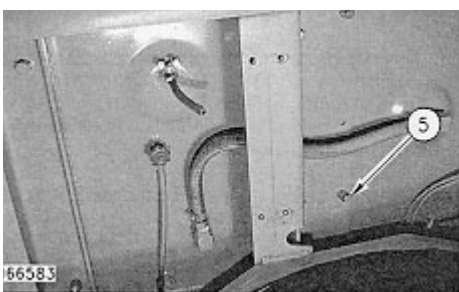
12. Put auxiliary fuel refueling pump (14), and its mounting bracket (15), in position on the frame of the machine. Install two bolts (15) and the washers that hold the unit in position.

13. Connect electrical connector (13) in the original location on the front of the fuel tank. Put hose assemblies (12) in position on the auxiliary fuel refueling pump (14). Install the clamp, bolt (11) and the washer, not shown, that hold the hose assemblies in position.



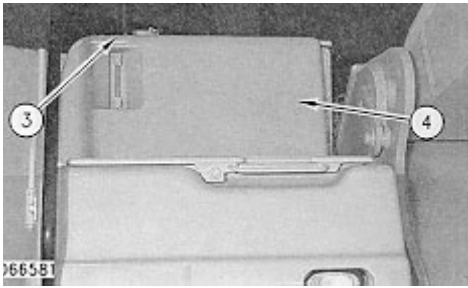
14. Connect hose assembly (9) to the front of the fuel tank with clamp (6).

15. Connect hose assembly (10) to the fuel tank with clamp (7).



View From Under machine

16. Install four bolts (5) that hold the fuel tank and the fuel tank cover to the machine.

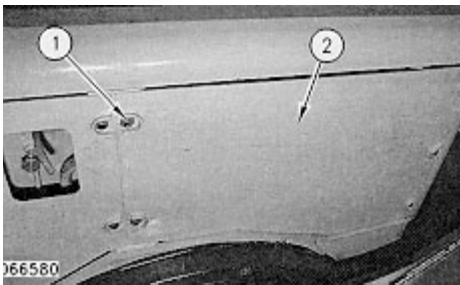


17. Put cover (4) in position over the fuel tank. Install two bolts (3), the washers and the spacer that hold it.

NOTE: Refer to the topic "Lubricant Viscosities and Refill Capacities" in the "Operation & Maintenance Manual" for the proper filling procedure and the proper levels for the fuel system.

18. Fill the fuel tank with fuel to the correct levels.

19. Start the machine, and check for fuel leaks.



View From Under Auxiliary Fuel Tank

20. Install cover plate (2) under the fuel tank with five bolts (1) and the washers.

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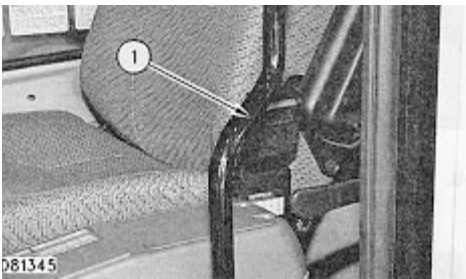
Date Updated -18/01/2017

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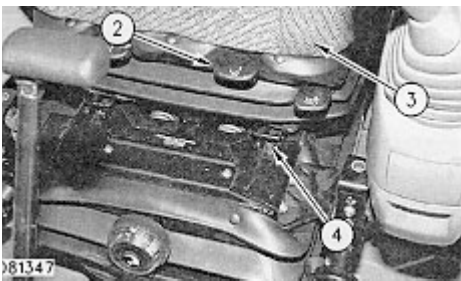
Seat Assembly

SMCS - 7312-010

Remove & Install Seat Assembly



1. Open the cab door, and lock it in the "Open" position.
2. Remove the bolt and the washer from each side of the seat assembly.
3. Remove seat belt (1) from the seat assembly.



4. Disconnect the cable assembly connected to seat lever.
5. Remove two socket head bolts (4) that hold seat assembly (3) in position on each side. Using two persons, remove seat assembly (3) from the cab. The weight of the seat assembly is approximately 41 kg (90 lb).

NOTE: The seat assembly can be reinstalled in the reverse order of the removal steps.

6. Adjust the seat assembly to allow full pedal travel with the operator's back against the seat back. Refer to the topic "Seat Adjustment" in the "Operation & Maintenance Manual."

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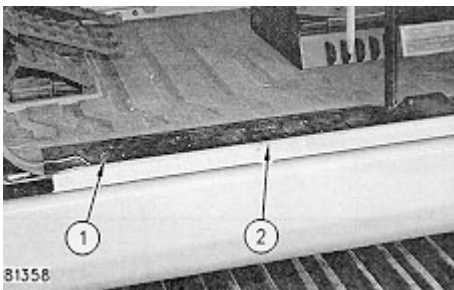
SEN92570015

Cab

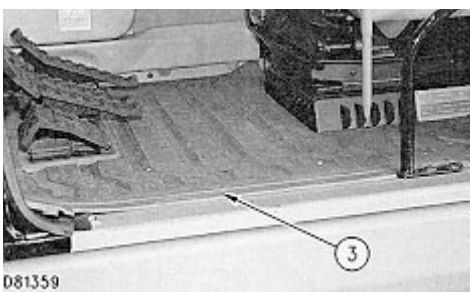
SMCS - 7301-010

Remove & Install Cab

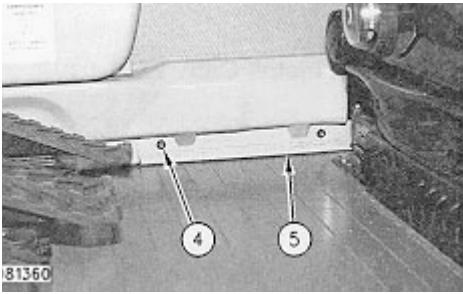
1. Open the cab door, and lock it in the "Open" position.



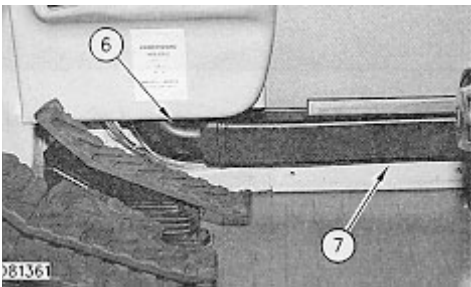
2. Remove three screws (1) and guard (2) at the cab door opening.



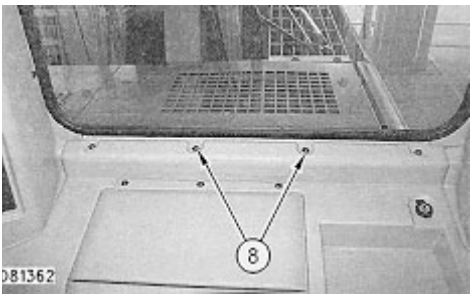
3. Remove rubber floor mat (3) from inside the cab.



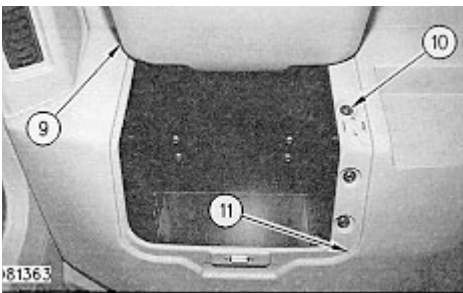
4. Remove three screws (4) and cover (5) from inside the cab.



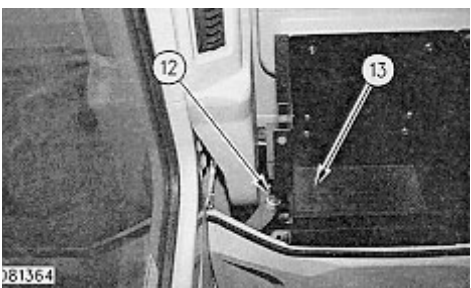
5. Remove heater duct tube (7) from elbow duct (6).



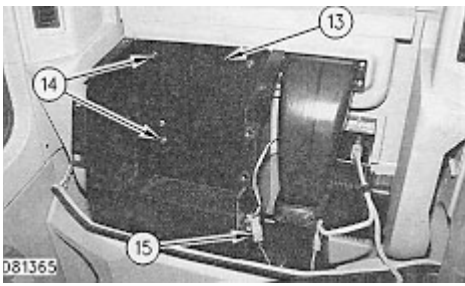
6. Remove four screws (8) from the cover at the rear of the cab.



7. Open rear compartment door (9). Remove four screws (10) and cover (11) from the rear of the cab.

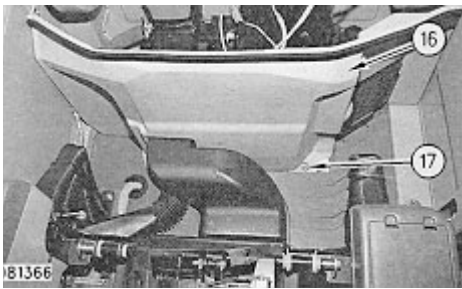


8. Disconnect hose (12) from box (13).

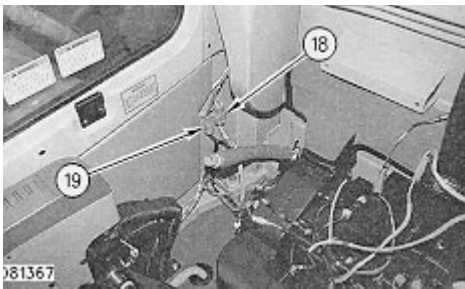


9. Remove wiring harness (15) from the side of box (13).

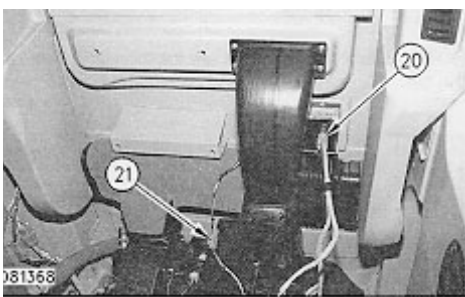
10. Remove four screws (14) and box (13) from the rear of the cab.



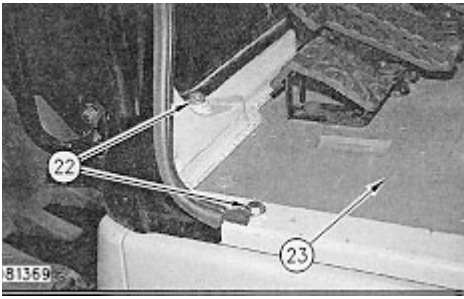
11. Remove two bolts (17), the washers and cover (16) from the rear of the cab.



12. Disconnect electrical connectors (18) and (19).



13. Disconnect electrical connectors (20) and (21).



14. Remove nine bolts (22) and the washers that hold the cab to operators platform (23).

NOTICE

Raise the cab slowly to check for additional lines or connections that could be damaged during the removal.

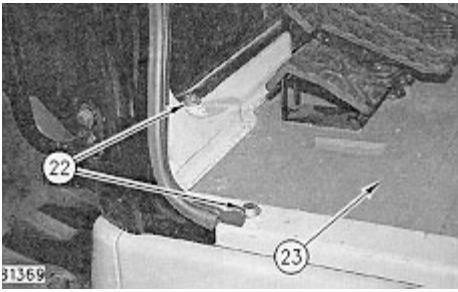


15. Fasten a hoist to the lifting bracket on top of cab (24) as shown. Carefully remove the cab from the operators platform. The weight of the cab is **288 kg (635 lb)**.

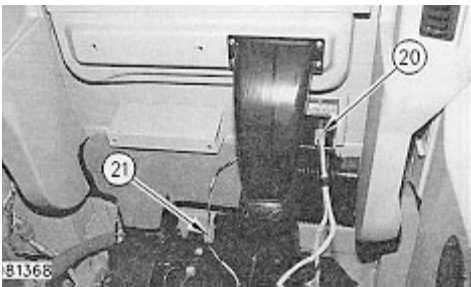
NOTE: The following steps are for the installation of the cab.



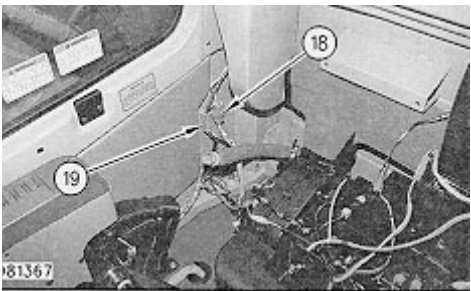
16. Fasten a hoist to the lifting bracket on top of cab (24). Carefully put the cab in position on the operators platform.



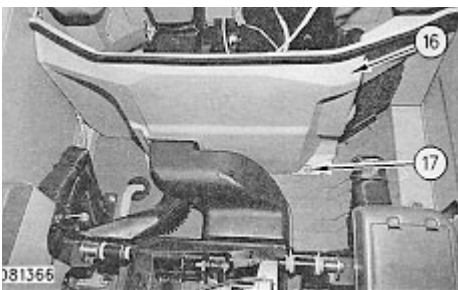
17. Install nine bolts (22) that hold the cap to operators platform (23).



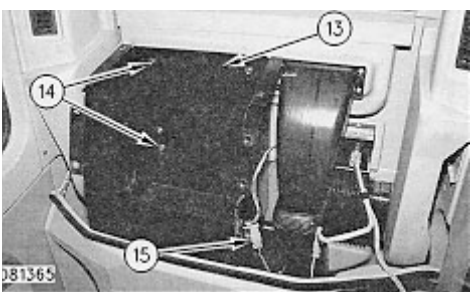
18. Connect electrical connectors (20) and (21).



19. Connect electrical connectors (18) and (19).

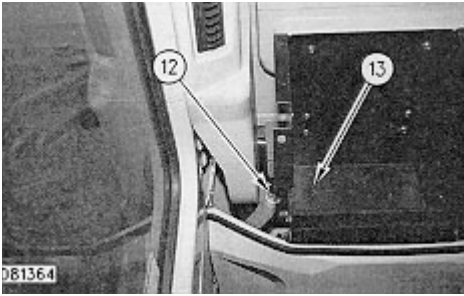


20. Put cover (16) in position at the rear of the cab. Install the washers and two bolts (17) that hold the cover in place.

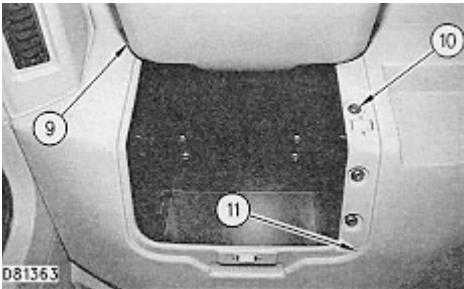


21. Put box (13) in position at the rear of the cab. Install four screws (14).

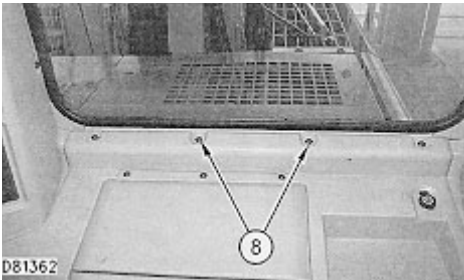
22. Install wiring harness (15) on the side of box (13).



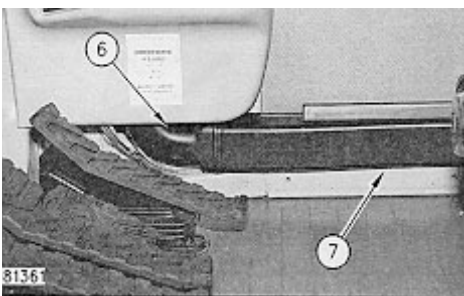
23. Connect hose (12) to box (13).



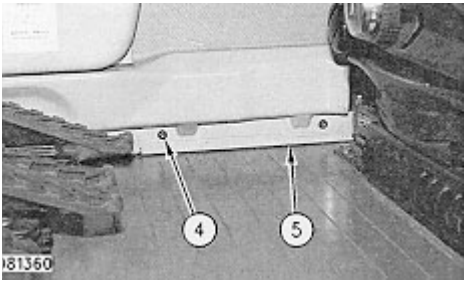
24. Install cover (11) and four screws (10). Close rear compartment door (9).



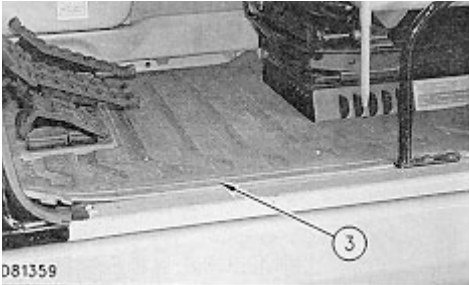
25. Install four screws (8) in the cover at the rear of the cab.



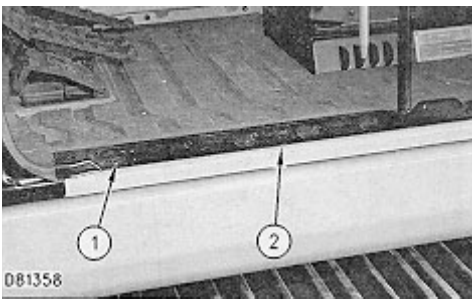
26. Connect heater duct tube (7) to elbow duct (6).



27. Position cover (5) in the cab, and install three screws (4) that hold it.



28. Carefully install rubber floor mat (3) in the cab.



29. Position guard (2) in the cab door opening. Install three screws (1) that hold it.

Previous Screen

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

SEN92570016

Track Carrier Rollers

SMCS - 4154-010; 4154-017

Remove & Install Track Carrier Rollers

Tools Needed	A
8T-5255 Hydraulic Jack	1

- Put the machine on a flat level floor.



The grease in the track adjusting cylinder is under high pressure. Grease coming out of the relief valve of the track adjuster, which is under high pressure, can penetrate the body causing personal injury or death. When loosening the tension on the track, loosen the relief valve only one turn. Do Not visually inspect the relief valve to see if grease is being released from the track adjuster. Instead, watch the track to see if it loosens, if the track does not loosen after opening the relief valve, move the machine forward and backward to release the tension.



Suggest:

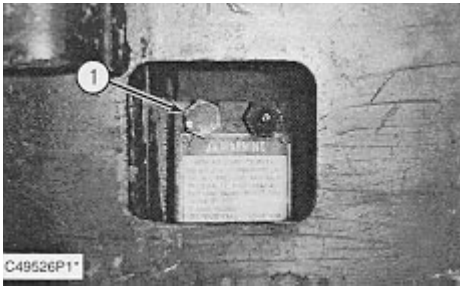
If the above button click is invalid.

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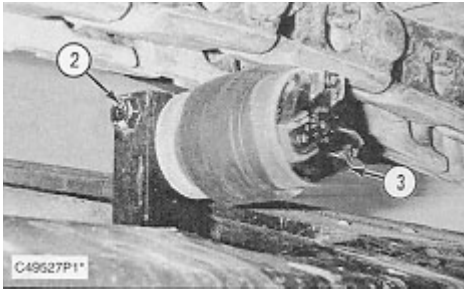
first, and then click the above link

to download the complete manual.

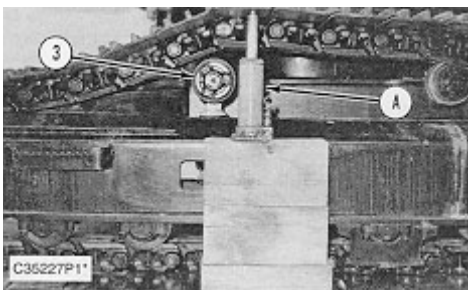
Thank you so much for reading



2. Release the tension on the track. Loosen relief valve (1) only one turn. If the track does not loosen after opening the relief valve, move the machine forward and backward until the tension is released.



3. Loosen bolt (2) that holds track carrier roller (3) to the mounting bracket on the undercarriage frame assembly.



4. Put wood blocks and Tool (A) under the track assembly, as shown. Lift the track assembly off of the track carrier roller. Using two persons, remove track carrier roller (3). The weight of the track carrier roller is **23 kg (50 lb)**.

NOTE: The following steps are for the installation of the track carrier roller.

5. Be sure the shaft of the track carrier roller and the bore in the mounting bracket on the undercarriage frame assembly is clean and free of dirt.

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