



Service Repair Manual

Model

438C BACKHOE LOADER

Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 2DR

Configuration: 438C Backhoe Loader Side shift, Parallel Lift 2DR03250-03741 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly

416C, 426C, 428C, 436C AND 438C BACKHOE LOADERS MACHINE SYST

Media Number -SEN1209-02

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Date Updated -05/06/2012

SEN12090033

Air Conditioner Compressor Group

SMCS - 1802-010; 1802-015; 1802-016

Remove & Install Air Conditioner Compressor Group



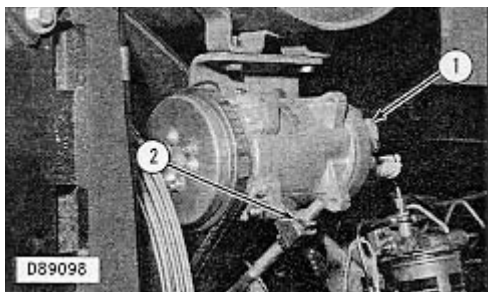
Effective July 1, 1992 regulations prohibit the venting of any refrigerant into the atmosphere. Refer to Caterpillar publication SENR5664 and NEDG5065 for the proper procedure, equipment and tools to reclaim refrigerant from any Caterpillar machine.



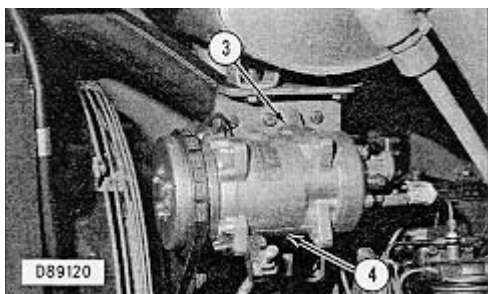
Always wear goggles when working on air conditioning systems. The system is under pressure at all times, engine running or not. Escaping refrigerant R-134A can cause freezing of human flesh.

Do Not smoke while working on air conditioning systems. **INHALING REFRIGERANT R-134A THROUGH ANY SMOKING MATERIAL, ALTHOUGH NOT TOXIC OR FLAMMABLE, CAN GENERATE LETHAL PHOSGENE GAS AND CAUSE VIOLENT ILLNESS OR DEATH. ALSO HEAT MUST NEVER BE APPLIED TO A CHARGED SYSTEM.** See Air Conditioning And Heating Service Manual, Form No. SENR5664, for more information on removal and installation of lines and refrigerant from the system.

NOTE: For purging and charging the air conditioning system, refer to the Air Conditioning And Heating Service Manual SENR5664.



1. Disconnect wiring harness (1).
2. Loosen nuts (2).
3. Position fan belt for compressor removal.
4. Disconnect the refrigerant lines.



5. Remove two bolts (3).
6. Remove compressor (4).

NOTE: For installation of the air conditioner compressor group, reverse the removal steps.

NOTE: For purging and charging the air conditioning system, refer to the Air Conditioning And Heating Service Manual SENR5664.

Remove & Install Air Conditioner Compressor Group (416C)



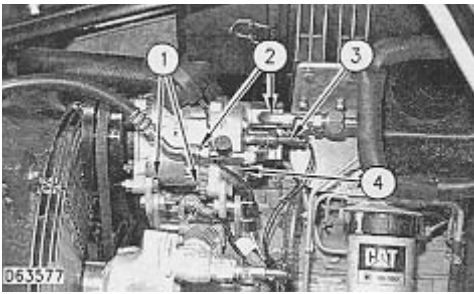
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WARNING

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NOTE: For purging and charging the air conditioning system, refer to the Air Conditioning And Heating Service Manual SENR5664.



1. Disconnect wiring harness (3).
2. Loosen nuts (1).
3. Position fan belt for compressor removal.
4. Disconnect refrigerant lines (2).
5. Remove two bolts (1).
6. Remove compressor (4).
7. Install air conditioner compressor group in the reverse order of removal.

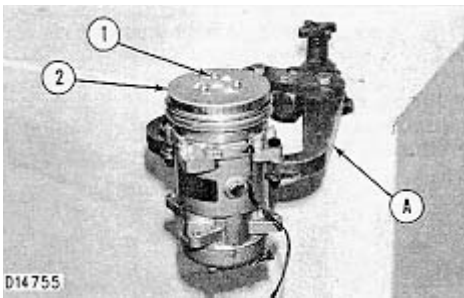
NOTE: For purging and charging the air conditioning system, refer to the Air Conditioning And Heating Service Manual SENR5664.

Disassemble Air Conditioner Compressor

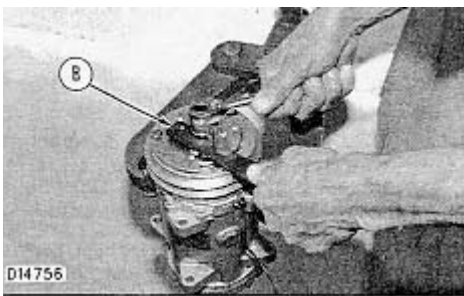
Tools Needed		A	B	C	D	E	F
2P8338	Fixture	1					
8T7710	Clutch Holder		1				
8T7704	Puller Plate			1			
8T7703	Puller Screw			1			
4L7124	Bolt			3			
8T7713	Driver				1		
8T7705	Driver					1	
8T7704	Puller Plate						1
8T7703	Puller Screw						1
8T7709	Puller Pilot						1
2J5245	Bolt						2
8T7702	Puller						2

Start By:

- a. remove air conditioner compressor



1. Put the compressor assembly in position on Tool (A). Remove screws (1) to remove cover (2).



2. Use Tool (B), and remove nut and washer.

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