



Service Repair Manual

Models

963 TRACK LOADER

Product: TRACK LOADER

Model: 963 TRACK LOADER 29S

Configuration: 963 TRACK TYPE LOADER 29S01211-UP (MACHINE) POWERED BY 3304 ENGINE

Disassembly and Assembly 963 TRACK-TYPE LOADER

Media Number -SEN2284-00

Publication Date -01/07/1981

Date Updated -11/10/2001

Transmission

SMCS - 3200-11; 3200-12

Remove Transmission

	Tools Needed	A	B	C
6V2157	Bracket-Link	1		
1D4609	Bolt ($\frac{3}{4}$ "-10 NC x 3 in. long)	1		
5P9694	Hoist		1	
5P9736	Bracket-Link			1
8S9908	Ratchet Puller			1

start by:

a) lift the cab

NOTICE

Be sure the bucket is flat on the floor to prevent possible damage to the cab when it is tilted.

1. Remove the front guard from under the fuel tank and the guards under the transmission. Weight of the fuel tank guard is approximately 60 kg (134 lb.). Weight of each transmission guard is approximately 33 kg (72 lb.).

2. Remove the drain plug and install a 1 in. pipe nipple in the oil pan and drain the oil out of the transmission. Capacity is approximately 83.5 liter (22 U.S. gal.).

NOTICE

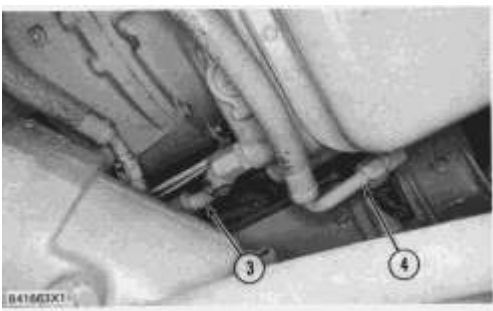
Put plugs or caps on all oil line openings to keep dirt and foreign material out of the transmission.



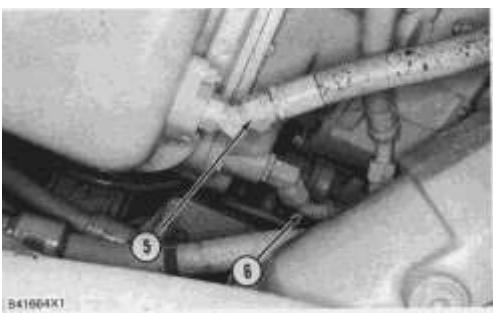
3. Disconnect oil line (1) from the front of the oil pan on the transmission.



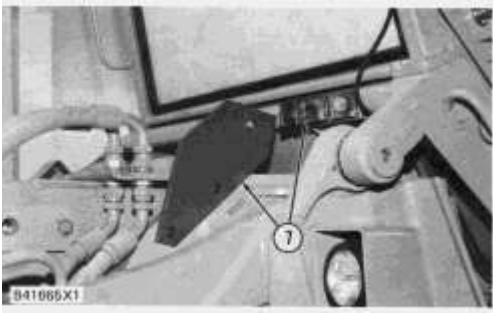
4. Disconnect high pressure oil lines (2) for the track motors from both sides of the transmission.



5. Disconnect oil cooler line (3) and case drain line (4) from the rear of the transmission on the left side.



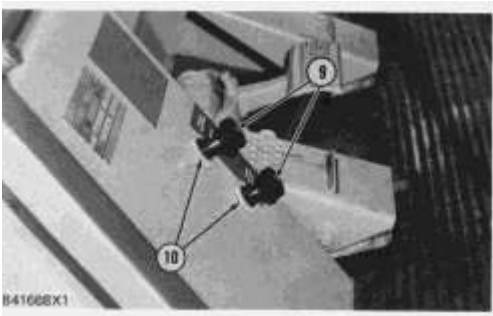
6. Disconnect case drain line (5) and oil cooler line (6) from the rear of the transmission on the right side.



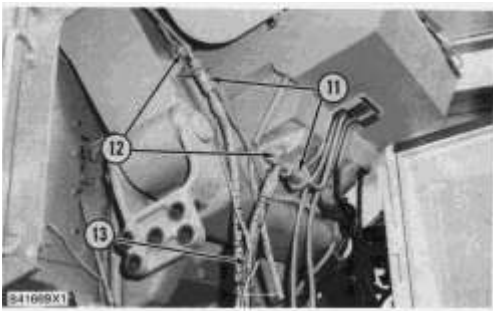
7. Install plate and bracket (7) on the front of the cab and frame as shown. The plate and bracket are kept in the tool box on the machine.



8. Disconnect rod (8) from the lever on the speedbrake control valve stem.



9. Loosen the setscrews in knobs (9) and remove the knobs from the track brake release pump in the cab. Remove nuts (10) and hand pump for the track brake release from the bottom of the cab. Disconnect the ground wire from the cab.

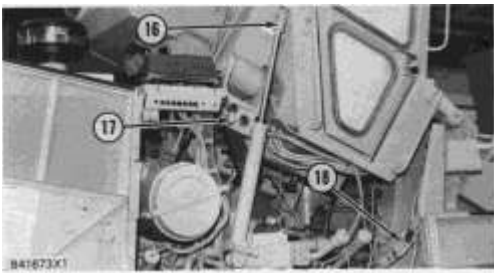
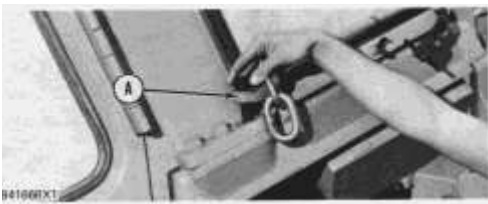


10. Disconnect refrigerant lines for the air conditioner at quick-disconnect fittings (11). Install plugs (12) in the refrigerant lines to keep dirt out.

NOTE: Refrigerant will not be lost if the refrigerant lines are disconnected at quick-disconnect fittings (11).



11. Disconnect connector (13) in the wire harness for the clutch on the air conditioner compressor.
12. Close the water cocks on the engine and disconnect heater hoses (14) from the tubes on the cab.
13. Disconnect wire harnesses (15) on the right side of the cab.



WARNING

The cab must first be put in the 24° position before it is lifted to the 90° position. Too much load will be put on the tooling if the cab is lifted to the 90° position from the fully lowered position.

NOTICE

Remove the clamps from pilot oil lines (18) to prevent damage when the cab is tilted to the 90° position. The bucket must be flat on the ground to prevent damage to the windshield.

14. If a hoist is available, use the procedure that follows to lift the cab to the 90° position.

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