



CH3500 HARVESTER REPAIR MANUAL

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CH3500 Harvester Repair Manual

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

GENERAL SPECIFICATIONS

Specifications

For additional information, refer to the John Deere Engine Manual.

Engine Type	John Deere 8081, 8.1L
Number of Cylinders	6
Horsepower	337 HP at 2100 RPM
Aspiration	Turbocharger and Air to Air Aftercooler
Oil Capacity	29.5 Liters (31 US Quarts)
Oil Filter	Top Load Oil Filter
Coolant Capacity	62.5 Liters (16.5 US Gallons)
Coolant Additive Element	Canister Type (Optional)

IMPORTANT: Do Not Mix Coolant Additive and Additive Elements or Use Together. Use Only One Method Exclusively.

Fuel Filters	Primary: Spin-On/Spin-Off Element with Water .. Separator Final: Spin-On/Spin-Off Element
Safety Shutoff.....	Swing Out Door with Shutoff Override Control.
Electrical System	12 Volt Battery

John Deere 6081 Engine

Description

The John Deere 6081 engine has 8.1 L, six in-line cylinders, 337 HP, is turbocharged and after-cooled.

Preliminary Service Intervals

After the first 100 hours of operation, or after rebuilding your engine, do the following:

1. Change the engine oil and filter.
2. Change all fuel filters.

Every 250 hours of operation thereafter, do the following:

1. Change the engine oil and filter.
2. Change all fuel filters.

Refer to the Maintenance Section for complete service intervals.

Common Wear Parts

Primary Fuel Element	RE503676 (Washable Screen)
Final Fuel Element	RE509596
Oil Filter	RE509672
Belt (Crank Shaft)	R135604

GENERAL CAPACITIES

Harvester Capacities

Component	Approximate Capacity
Fuel Tank—Diesel	568 L (150 US Gal)
Hydraulic Oil Tank—10W30 Motor Oil	405 L (107 US Gal) (World)
Radiator Coolant—50% Clean Water & 50% Ethylene Glycol	62.5 L (16.5 US Gal)
Track Final Drive—85W140	4.2 L (4.4 US Qt)
Wheel Final Drive—85W140	4.2 L (4.4 US Qt)
Chopper Gearbox—85W140	7.6 L (8 US Qt)
Basecutter Gearbox (With Legs)—85W140	Dry 10.4 L (11 US Qt)
Four Pump Drive—85W140	7.1 L (7.5 US Qt)
John Deere 6081 Engine—SAE 15W40 Oil	28.5 L (31 US Qt)
Air Conditioner—R134A Refrigerant (Empty System)	2.6 Kg (5.75 Lb)
—R134A Compressor Oil: ND-8	118 mL (4.0 Oz)

Tire Inflation Pressure

TIRE SIZE	PSI	KPA
Front		
Skidder 17.5 x 14—10 Ply (Galaxy)	75	517
Rear		
23.5 x 25-20 Ply (Galaxy)	54	372

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