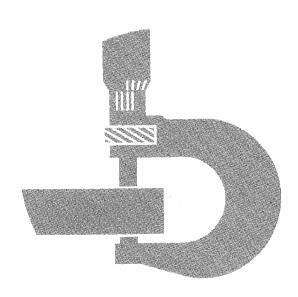
JOHN DEERE JD310 Loader Backhoe Service Repair Manual



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Backhoe Service Repair Manual

John Deere JD310 Loader Backhoe



TECHNICAL MANUAL

John Deere Dubuque works TM-1036 (Feb-77)

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JD310 LOADER BACKHOE

Technical Manual TM-1036 (Feb-77)

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Section 10 GENERAL

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Group 5

GENERAL MACHINE SPECIFICATIONS

Engine			Capacities	
•	Gasoline	Diesel	Fuel Tank	19-1/2 gals.
Flywheel Horsepower (no	et)		Cooling System	12 qts.
(observed at 2500 rpm)	50	50	Engine Crankcase	
Number of Cylinders	3	3	(with filter) (early units)	7 qts.
Bore and Stroke	4.02 x 4.33	4.02 x 4.33	(with filter) (later units)	9 qts.
Displacement	164	164	Transmission-Hydrau-	
Compression Ratio	7.5 to 1*	16.2 to 1	lic Reservoir	20-1/2 gals.
Firing Order	1-2-3	1-2-3		
Engine Speeds			Clutch	
Slow Idle	600 rpm	800 rpm		Single-stage, spring-loaded,
Fast Idle	2650 rpm	2650 rpm		dry-disk, foot-operated.
Governed Speed				
Range (rpm)	600-2650	800-2650	Transmission	
•	rpm	rpm		aulic reverser containing hy-
Valve Clearance			· ·	provide 8 speeds forward and
Intake	0.014 in.	0.014 in.	4 rearward.	or a special for ward are
Exhaust	0.022 in.	0.018 in.	4 I cai walu.	
			Differentials and Fig	nal Drives

Electrical System

Voltage 12 Negative **Battery Ground Battery Specific** 1.260 Gravity

* 8.6:1 High-Altitude Pistons

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Planetary-reduction final drives with spiral bevel gear drive differential.

Differential lock: foot-operated mechanical lock, spring-loaded out of engagement.

Hydraulic System

Closed-center, constant-pressure, variable displacement pump driven from front of engine. Provides hydraulic power for steering and loaderbackhoe operation.

Steering System

Hydraulic power steering with provision for emergency manual steering.

Brake System

Fully hydraulic, foot-operated, individually or simultaneously actuated, wet disk type.

Front Tire Options

Size	Туре	Ply Rating
7.50-16 (Early Units)	I-1A	6
7.50-16 (Early Units)		10
11L-15	I- 1	6
7.50-16	I-1A	8
11L-15 (Early Units)	I-1A	8

Rear Tire Options

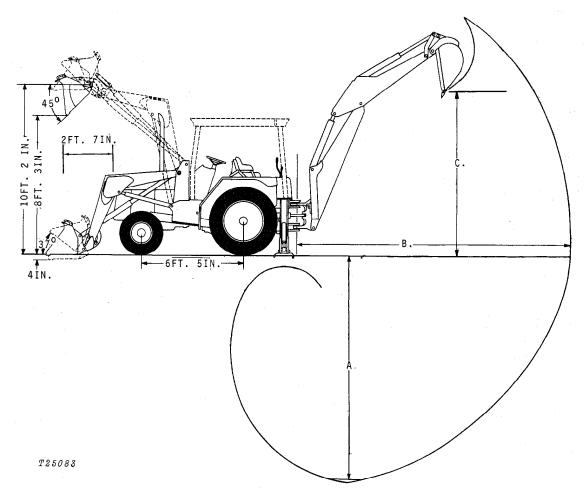
Size	Туре	Ply Rating
16.9-24 (Early Units)	R-1	8
16.9-24	R-4	8
16.9-24 (Early Units)	R-3	8
18.4-24*	R-4	8
19.5-24 (Early Units)	R-4	8

* Use with 9500 Backhoe

Operating Weight (JD310 with 9405 Backhoe)

	Gasoline	Diesel
Without canopy or cab With canopy	12,700 lbs. 13,103 lbs.	12,750 lbs. 13,241 lbs.
Operating Weight (9500 Backhoe)	JD310 with	
• •	JD310 with Gasoline	Diesel

JD310 BACKHOE LOADER OPERATING SPECIFICATIONS



Α.	Digging Depth (IEMC) (9405) 14 ft. 1 in.
	(9500) 13 ft. 9 in.
В.	Backhoe Reach (9405) 17 ft. 1 in.
	(9500) 17 ft. 2 in.
C.	Truck Loading Height (9405) 10 ft. 4 in.
	(9500) 10 ft. 9 in.
	Transport Height
	Ground Clearance (9405) 13 in.
	(9500) 7 in.
	Width (without bucket) 6 ft. 11 in.
	Over-all Length (9405) 23 ft. 9 in.
	(Transport position)
	Over-all Length (9500) 18 ft. 6-1/2 in.
	(Transport position)

Over-all Height (top of canopy) 8 ft. 8 in. Turning Radius (with brakes) 9 ft. 2 in.
Turning Clearance Circle (Loader
hinge pin 3 ft. above ground level,
bucket rolled back; brakes applied) 30 ft.
Breakout Force 6,000 lbs.
Stabilizer Width (transport position)
(9405)
(9500) 6 ft.
Transport Width (9500)