

**299 TWO-ROW
COTTON PICKER
SERIAL NO. 299L-94B
AND 299H-1450**



JOHN DEERE

**OPERATORS MANUAL
299 TWO-ROW COTTON PICKER
SERIAL NO. 299L-94B AND
299H-1450**

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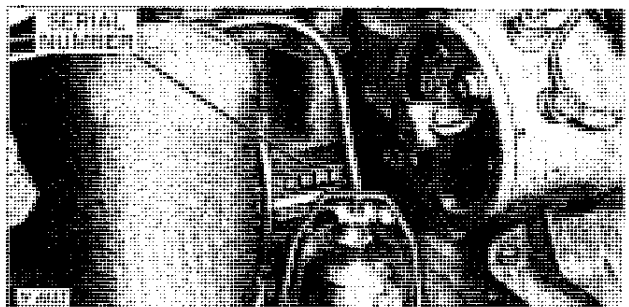
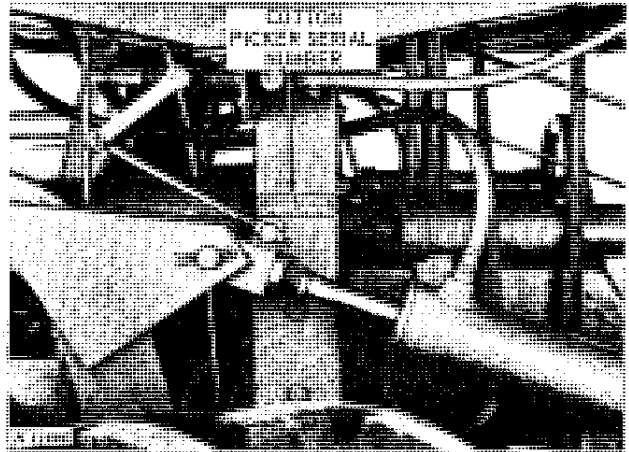
TO THE PURCHASER

Your new cotton picker was built to rigid manufacturing standards. Material and workmanship are the best. However, the machine will serve you only in direct proportion to the care you give it. How long it will last and continue its good work is a matter entirely in your hands.

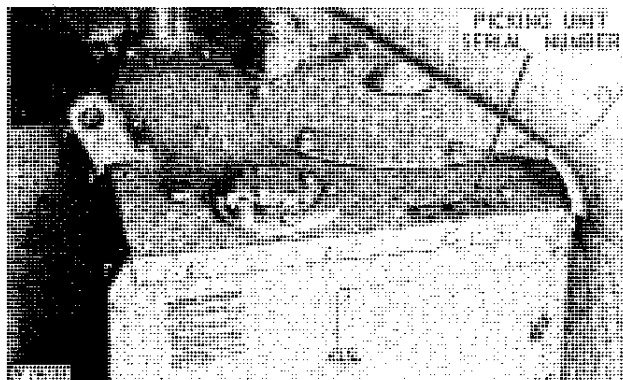
The way you operate your cotton picker and the care you give it have much to do with the service and satisfaction you will get from it. This manual has been carefully prepared and illustrated to show you what to do and when to do it. It explains the adjustments that are built into the machine and gives instructions on when and how to make these adjustments.

If you find you need information not covered in this manual or if your cotton picker requires special servicing, take advantage of the facilities offered by your John Deere dealer. He has trained mechanics, who are kept informed on the best methods of servicing and can give you prompt, "know-how" service in the field or in his shop.

Location References. "Right" and "Left," "Front" and "Rear" refer to the operator's "Right" or "Left" and "Front" or "Rear" when facing the same direction machine is headed or traveling.



SERIAL NUMBERS



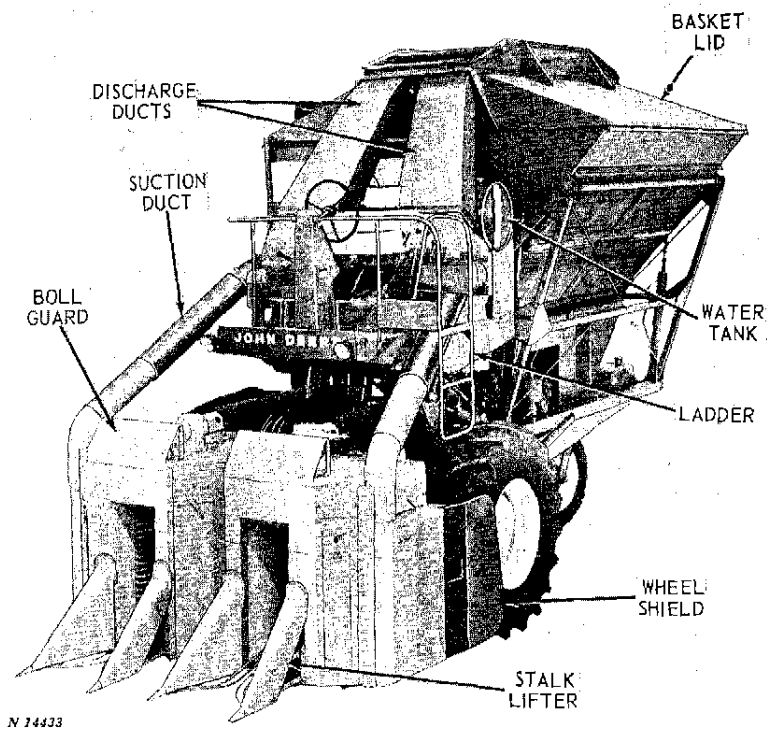
The cotton picker serial number is on a plate located on the left-hand platform support. The engine serial number is on a plate located on the left-hand side of the engine block. The picking unit serial numbers are on plates located on the top outer side of each unit. Write these serial numbers in the space provided below, for handy reference later.

PICKER SERIAL NO.
ENGINE SERIAL NO.
R.H. PICKING UNIT SERIAL NO.
L.H. PICKING UNIT SERIAL NO.
DATE PURCHASED

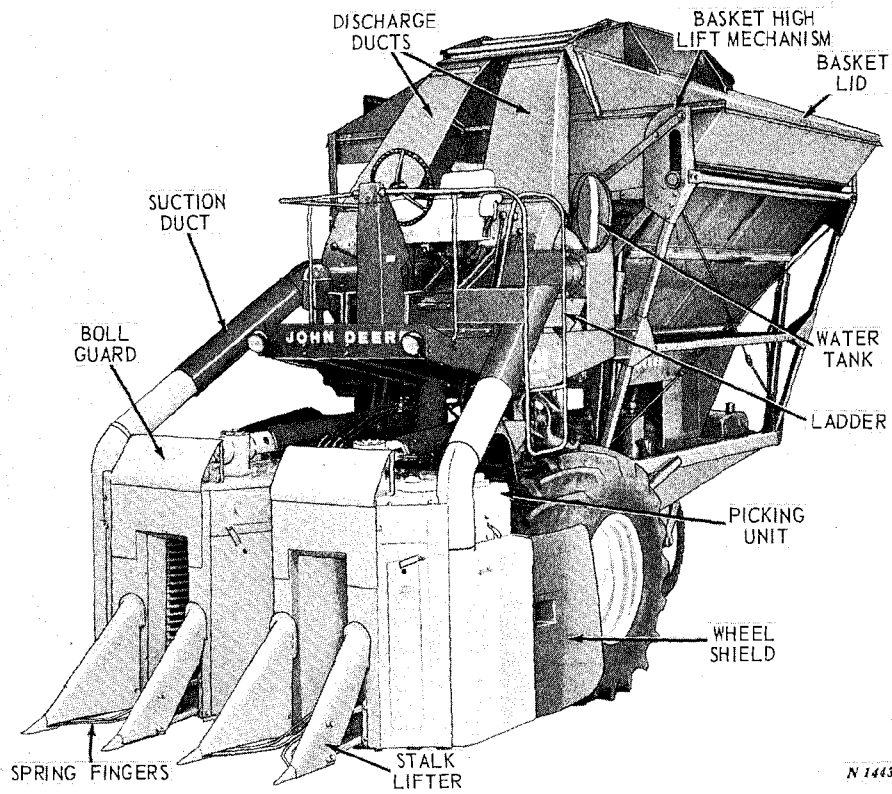


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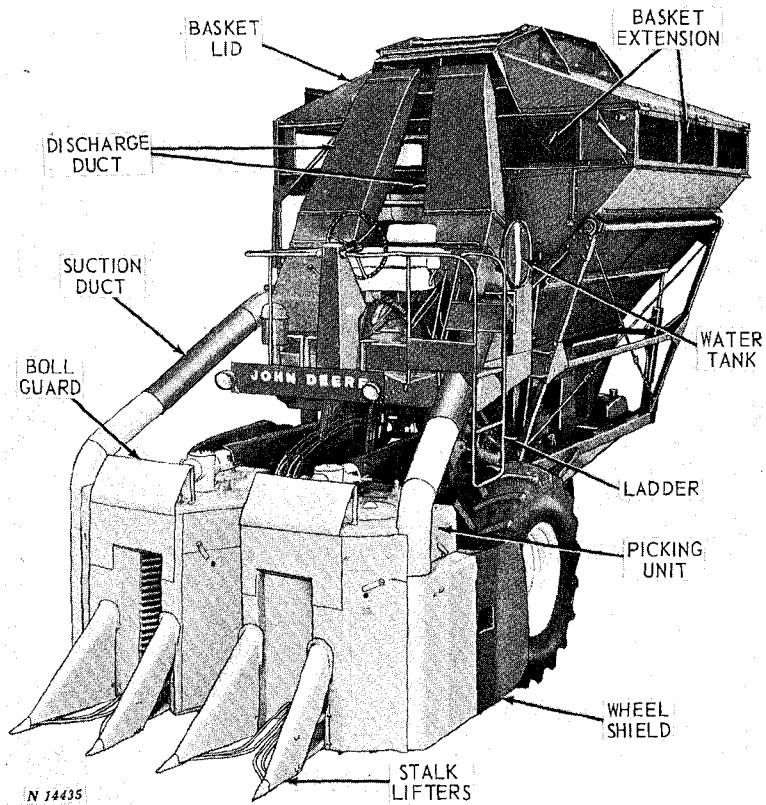
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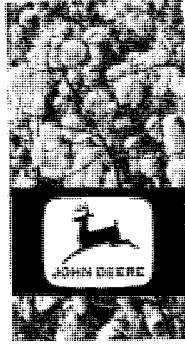
John Deere 299 Cotton Picker with Regular Basket



John Deere 299 Cotton Picker with High Lift Basket



John Deere 299 Cotton Picker with Basket Extensions



SPECIFICATIONS

ROW WIDTH 38 or 40-inch rows

GROUND SPEEDS (Full Throttle)

Picking Speeds

1st Gear 2.0 mph
 2nd Gear 2.6 mph
 3rd Gear 3.1 mph

Transport Speeds

4th Gear 8.1 mph
 5th Gear 10.4 mph
 6th Gear 12.3 mph
 Reverse Speed 3.2 mph

CAPACITIES

Cotton Basket-Regular 412 cu. ft.
 (2100 lbs. seed cotton*)
 Cotton Basket-with Extensions 524 cu. ft.
 (2600 lbs. seed cotton*)

Fuel Tank

Gasoline and Diesel 33 U.S. gal.
 LP-Gas (85% Full) 41 U.S. gal.
 Water Tank 64 U.S. gal.

Cooling System

Gasoline 6½ U.S. gal.
 LP-Gas 7 U.S. gal.
 Diesel 6 U.S. gal.

Engine Crankcase (Including Oil

Filter 7 U.S. qt.

Hydraulic System

With Regular Lift 15 U.S. qt.
 With High Lift 17 U.S. qt.

SHIPPING WEIGHT (With Reg. Lift & Gasoline Engine)

High Drum Picker - approx. 12,990 lbs.
 Low Drum Picker - approx. 12,390 lbs.

**These figures are based on approximately five pounds of seed cotton per cubic foot. The weight of seed cotton varies depending upon area and crop conditions.*

TIRES

Front Drive Wheels 18.4 x 26, 10-ply rating, Bar, Low Profile, or Cane and Rice Tread
 Rear Guide Wheel 11.00 x 16, 8-ply rating, Multi-Rib, or Triple Rib

ENGINE (Gasoline and LP-Gas)

Make John Deere

Model

Gasoline NB217G
 LP-Gas NB217L

No. of Cylinders 6

Bore 3-5/8 in.

Stroke 3-1/2 in.

Displacement 217 cu. in.

Horsepower

Gasoline 77 hp
 LP-Gas 77 hp

Tappet Clearance

Intake 0.012 in. (cold)
 Exhaust 0.018 in. (cold)

Valve location Valve-in-head

Firing Order 1-5-3-6-2-4

Engine Speeds

Fast Idle (no load) 2600 rpm
 Rated (under field load) 2500 rpm
 Slow Idle 600 rpm

Fuel System

Carburetor .. Marvel-Schebler (Single up Draft)

Type of Fuel.. Regular Gasoline or LP-Gas

Oil Filter Spin-on Full Flow

Air Cleaner Dry-type filter with pre-cleaner screen

Governor Pierce (centrifugal fly-weight type)

4 specifications

Electrical system

Type . . . Battery, 12-volt with distributor
Battery . . . One 12-volt, 91 ampere-hour,
SAE 9H9 battery

Ignition System

Spark Plug Gap
Gasoline engine 0.025 in.
LP-Gas engine 0.015 in.

Distributor Point Gap

Delco 0.016 in.
Prestolite 0.020 in.

ENGINE (Diesel)

Make John Deere NA248D
No. of Cylinders 6
Bore 3-7/8 in.
Stroke 3-1/2 in.
Displacement 248 cu. in.
Horsepower 80 hp
Compression ratio 19 to 1
Tappet clearance

Intake 0.012 in. (cold)
Exhaust 0.018 in. (cold)

Valve location valve-in-head

Firing order 1-5-3-6-2-4

Engine speeds

Fast idle (no load) 2560 rpm
Rated (under field load) 2500 rpm
Slow idle (no load) 800 rpm

Governor Integral with fuel injection pump

Fuel system

Make of fuel injection pump Roosa-
Master (Includes mechanical fuel shut off)
Make of injection nozzles Robert-Bosch
Type of fuel No. 1-D or No. 2-D
Diesel fuel (40 cetane minimum rating)
Fuel filters Two-stage
micronic-type

Electric operating system 12-volt

Electric starting system

Starting motor 12-volt
Starting aid Glow plug for each cylinder
actuated by push button
on instrument panel

Air cleaner Dry-type filter
with pre-cleaner screen

Batteries Two 12-volt, 91 ampere-
hour, SAE 9H9 batteries;
connected in parallel

PICKING UNITS

No. of Units 2
No. of Picking Drums 4
No. of Picker Bars (per unit)
Front Drum 16
Rear Drum 12
No. of Spindles (per machine)
Low Drum Picker 784
High Drum Picker 1120

PICKING UNIT SPEEDS (All speeds determined
with engine operating at approximately 2500 rpm
rated speed under field load.)

Picking unit drive shaft

Low range 730 rpm
High range 974 rpm

*Picking Drums

Front Drum (16 Bar)

Low Range 70.4 rpm
High Range 93.7 rpm

Rear Drum (12 Bar)

Low Range 93.9 rpm
High Range 125.0 rpm

Doffer Shaft

For Front Drum (16 Bar)

Low Range 1136 rpm
High Range 1512 rpm

For Rear Drum (12 Bar)

Low Range 1152 rpm
High Range 1534 rpm

**NOTE: Picking drum speeds are taken while
operating in field.*

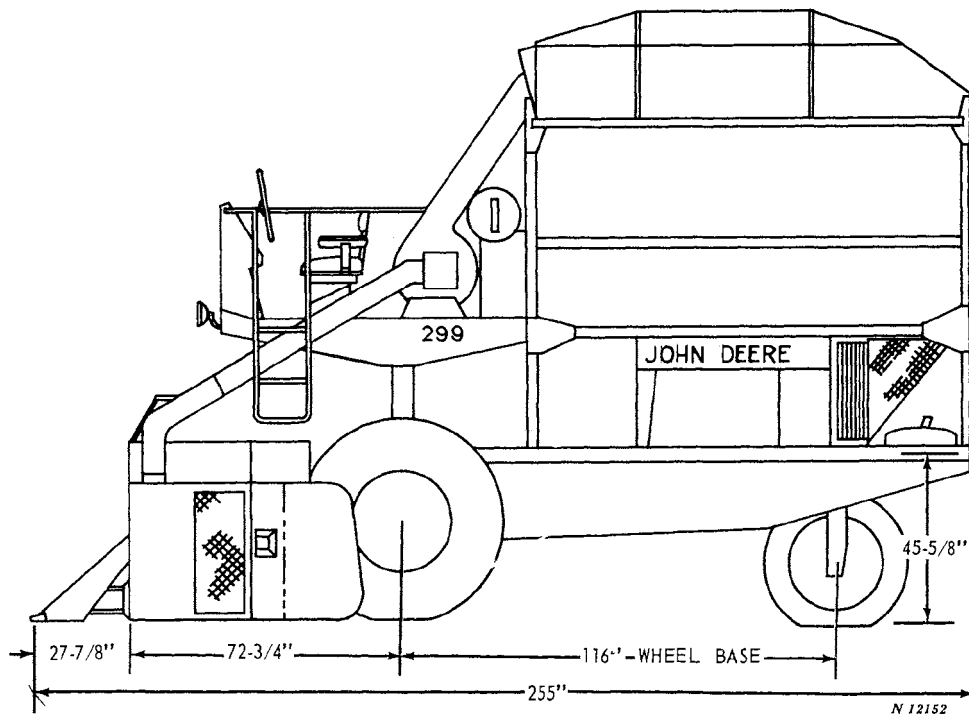
OPTIONAL EQUIPMENT

Gasoline, LP-Gas, or Diesel Engine
Regular or High Lift Basket
Low Profile Tires (18.4 x 26, 10-ply)
Bar Tread Tires (18.4 x 26, 10-ply)
Cane and Rice Tires (18.4 x 26, 10-ply)

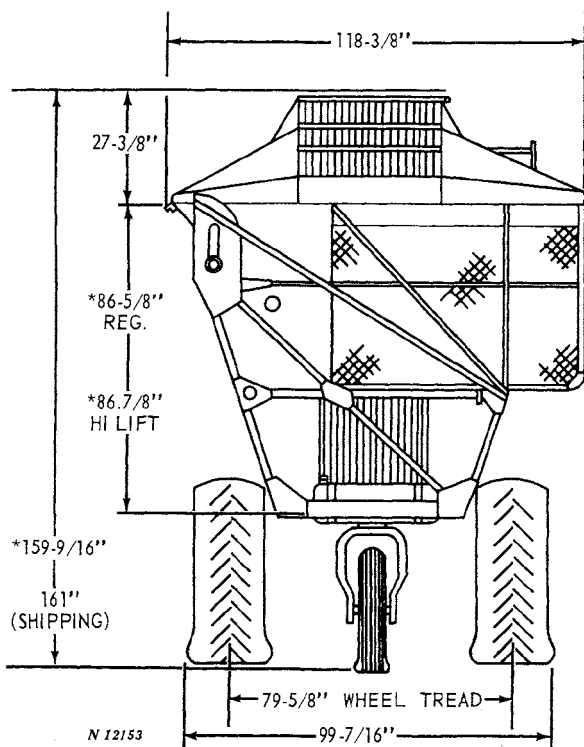
ATTACHMENTS

Tunnel Grids
Pressure Plate Ribs
Basket Extensions
High-Lift Basket (Field Conversion)
Fan Drive Belt Shields
Adapter for Roll-o-matic Wheel Assembly
Restrictor Indicator for Engine Air Intake
Trash Grates
Stalklifters and Extensions
Tunnel Grates
Belts and Sheaves for Slow Fan Speed
Operator's Cab

DIMENSIONS



Left-Hand Side View of 299 Cotton Picker



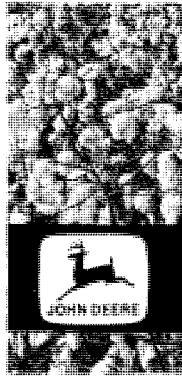
Rear View of 299 Cotton Picker

GROUND CLEARANCE

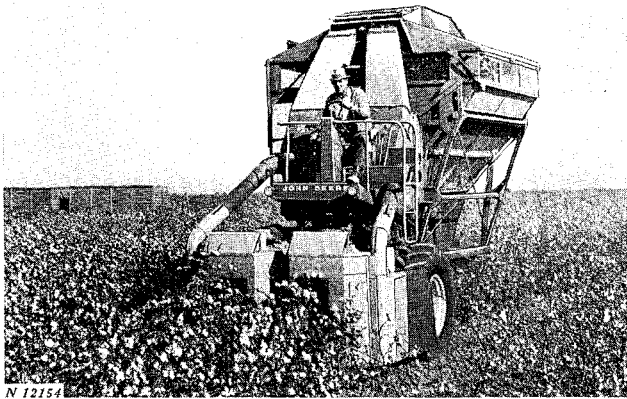
Under Main Axle 33 inches

* Add 15 inches for picker equipped with basket extensions.

(Specifications and design subject to change without notice.)



DESCRIPTION



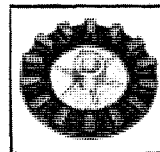
The 299 is a practical two-row cotton picker. Operating costs are low. It is easy to handle and transports fast.

The picker consists of four basic components:

1. Picking units.
2. Fan delivery system and basket.
3. Operator's platform and controls.
4. Propelling mechanism.

These basic components are mounted in such a way that the cotton picker is well balanced and the picking operation is efficient.

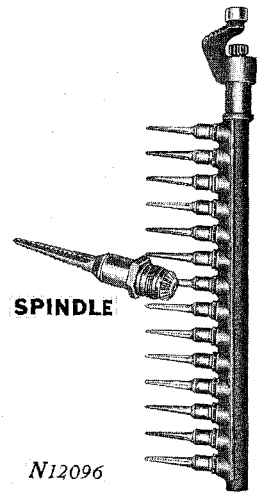
The heart of the picker is the two highly efficient spindle-type picking units. There are two drums of spindles per picking unit. The front drum consists of 16 cam-controlled picker bars, and the rear drum consists of 12 cam-controlled picker bars. Each picker bar, has 14 (low drum unit) or 20 spindles (high drum unit). Thus the picker has 784 (low drum unit) or 1120 (high drum unit) individual barbed spindles that pick cotton from the plants.



DOFFER
PLATE

N 11577

Doffer

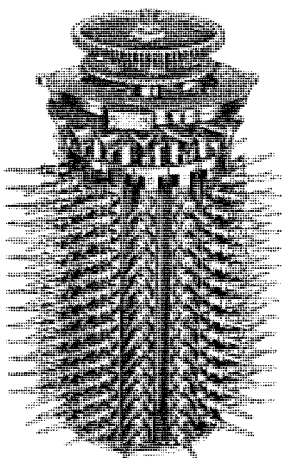


SPINDLE

N12096

Picker bar

PICKING UNITS



N 14158

Low-drum front picking drum

A doffer assembly is provided, for each picking drum, to unwind the cotton from the spindles and deliver it to a chute in the door. Each assembly consists of a shaft with 14 or 20 aluminum alloy doffer plates with rubber doffers molded to each plate.

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