

JOHN DEERE 45 COMBINE



OPERATORS MANUAL JOHN DEERE 45 COMBINE

OMH63137 I8 English

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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

The combine you have purchased has been carefully designed and manufactured to provide years of dependable, economical service.

To further insure trouble-free service we recommend that you follow closely all instructions concerning operation, lubrication, adjustments and service. Preventive maintenance has proved to be much more economical than corrective maintenance. Should you require information not covered in this manual, consult your John Deere dealer.

KEEP YOUR COMBINE A JOHN DEERE COMBINE

Genuine John Deere Parts fit properly and insure satisfactory service because they are made from the original patterns and from the same materials as used in new machines. Should your combine require replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere Parts—accept no substitutes.

ATTACHMENTS

In addition to the equipment furnished with your combine, attachments are available to help you do a better job in a special crop or condition. These attachments, illustrated and described in the attachment section, are available from your John Deere dealer.

LOCATION REFERENCE

"Right-hand" and "left-hand" sides are determined by facing in the direction the combine will travel when in use.

Radiator end of the engine is referred to as the "front," flywheel end as the "rear."

SERIAL NUMBERS

Your combine, cutting platform, axle, and engine have serial numbers.

When ordering parts, always furnish the model and serial numbers as given on the serial number plates. By doing so, you will assist your John Deere dealer in giving you prompt, efficient service.

The combine serial number is on a plate located on the support bracket at the rear of the fuel tank.

The engine serial number is on the side of the block above the starter.

The axle serial number is on the top, left-hand end of the axle tube.

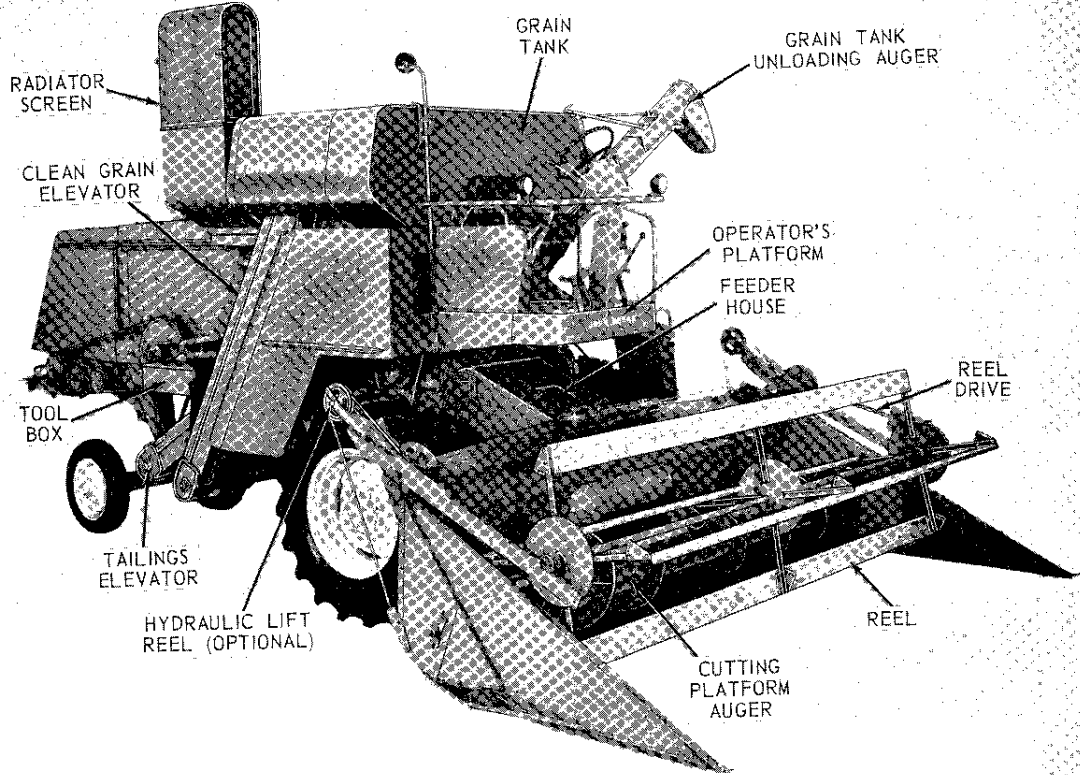
The cutting platform serial number is on a plate located on the outside of the right-hand platform divider.

Record these Serial Numbers in the space provided below.

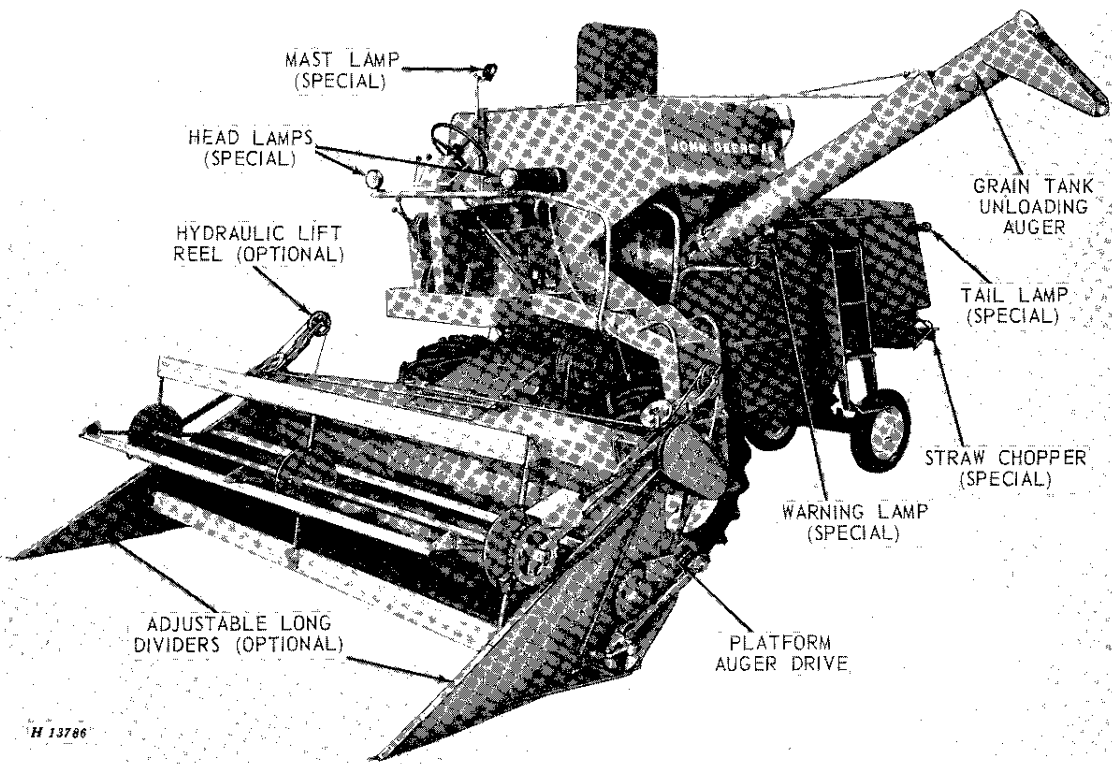
Combine serial no. _____
Engine serial no. _____
Axle serial no. _____
Cutting platform serial no. _____
Date purchased _____

CONTENTS

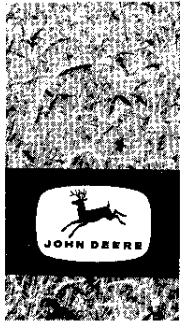
<i>Specifications</i>	2
<i>Controls and instruments</i>	6
<i>Operation</i>	9
<i>Safety suggestions</i>	20
<i>Fuels and lubricants</i>	21
<i>Lubrication and periodic service</i>	23
<i>Adjustments and service</i>	37
<i>Trouble Shooting</i>	73
<i>Attachments</i>	83
<i>Index</i>	92



H 13785



H 13786



SPECIFICATIONS

COMBINE

CUTTER BAR

Width of cut 8-ft. 6-in., 10-ft. 6-in.,
or 12-ft. 6-in.
Length of cutter bar 8-ft., 10-ft., or 12-ft.
Type of knife sections Heavy-duty
overserrated

REEL

Drive Chain
Number of slats 4 regular; 3, 6, or 8 special
Diameter of reel 32-in. or 40-in.
Speed range 13 rpm to 45 rpm

CUTTING PLATFORM

Type of feed Auger
Range of cutting height:

Grain 2-in. below wheel level
to 31-3/8-in. above
Rice 3-in. below wheel level
to 30-3/8-in. above

Height control 2 hydraulic cylinders

CUTTING PLATFORM AUGER

Diameter 18-in.
Diameter of auger tube 10-in.
Type of auger fingers Round retracting

CYLINDER

Type Rasp-bar or spike-tooth
Width 26-in.
Diameter 22-in.
Number of bars 8 Rasp-bars or 10 spike-
tooth bars (five 12-tooth
bars and five 13-tooth
bars)

Drive Roller chain
Speed range 175 rpm to 1095 rpm

CONCAVE

Type 12-bar open type or spike-tooth type
Width 26-in.

BEATER (Behind the cylinder)

Type Wing
Width 26-in.
Diameter 12-in.
Speed 650 rpm

SEPARATOR

Type Grain conveyor, straw walker
Width 26-in.
Length of separating surface 130-in.
(Straw walker pans extended)
Area of separating surface 3380 sq. in.

GRAIN CONVEYOR

Type Slat
Drive Chain

CLEANING FAN

Type 4-bladed undershot
Drive V-belt
Speed range - regular 540 rpm to 750 rpm
special 398 rpm to 812 rpm

CHAFFER

Type Adjustable
Width 22-3/4-in.
Length—with tailings finger bar 54-3/4-in.
Area 1246 sq. in.

SIEVE

Type Adjustable
Width 22-3/4-in.
Length 43-7/8-in.
Area 1000 sq. in.

TOTAL CLEANING AREA 2246 sq. in.

STRAW WALKERS

Number Three
Width 7-7/8-in.
Length—with pans extended 109 in.
Area 2938 sq. in.
Number of steps Five
Drive V-belt
Bearings Oil-soaked maple
Extension pans One on each walker

GRAIN TANK

Capacity 50-bushel, approx. (Type and
condition of crop will de-
termine actual volume)

BRAKES

Type Individual, mechanical disk-type
TRANSMISSION Automotive—3 speeds for-
ward, 1 reverse

STEERING Power

WEIGHTS AND DIMENSIONS

Shipping length 17 ft. 6 in.
Shipping width 8 ft. (approx.)
Grain combine with 10-foot cutting
platform 7050 lbs. (approx.)
Rice combine with 10-foot cutting
platform 7350 lbs. (approx.)

TIRE SIZES AND WHEEL TREAD DIMENSIONS

Main Wheel Tire Sizes	Center-to-Center Wheel Tread		Guide Wheel Tire Sizes	Regular Axle	Center-to-Center Wheel Tread	
	Rim Dished In	Rim Dished Out			OPTIONAL	
					60 In. Wide Axle	74 In. Wide Axle
13.6-26 (6-ply)	77 in.	89 in.	5.50-16 (4-ply)	42 in.	59 in.	73 in.
14.9-26 (6-ply)	78 in.	88 in.	6.00-16 (4-ply)	44 in.	61 in.	75 in.
16.9-26 (6-ply)	80 in.	86 in.	6.50-16 (4-ply)	44 in.	61 in.	75 in.
18.4-26 (6-ply)	81 in.	7.50-16 (4-ply)	44 in.	61 in.	75 in.
			7.50-18 (4-ply)	43 in.	60-1/4 in.	74-1/4 in.

NOTE: Guide wheels may be interchanged on the various rear axles.

GROUND SPEED RANGE

GRAIN DRIVE

RICE DRIVE

13.6-26 Tires—Standard		18.4-26 Tires—Standard	
	(Min.) (Max.)		(Min.) (Max.)
1st Gear	.7 to 1.8 mph	1st Gear	.6 to 1.7 mph
2nd Gear	1.5 to 3.9 mph	2nd Gear	1.4 to 3.7 mph
3rd Gear	3.5 to 9.2 mph	3rd Gear	3.4 to 8.7 mph
Reverse.	1.6 to 4.0 mph	Reverse.	1.5 to 3.8 mph
14.9-26 Tires—Optional		16.9-26 Tires Optional	
	(Min.) (Max.)		(Min.) (Max.)
1st Gear	.7 to 1.8 mph	1st Gear	.7 to 1.9 mph
2nd Gear	1.5 to 4.0 mph	2nd Gear	1.6 to 4.1 mph
3rd Gear	3.7 to 9.5 mph	3rd Gear	3.7 to 9.7 mph
Reverse.	1.6 to 4.2 mph	Reverse.	1.7 to 4.3 mph

CAPACITIES (APPROX.)

Fuel tankgasoline 25 U.S. gallons
 Cooling system 17 U.S. quarts
 Engine crankcase 9 U.S. quarts

Hydraulic unit (including hydraulic oil
 lines and cylinders) . . . 11-1/2 U.S. quarts
 Transmission 10 U.S. pints
 Final drives (2) 4-1/2 U.S. pints
 (In each)

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