

## 45 Combines



### **OPERATORS MANUAL**

45 Combines

OMH91055 K4 English

John Deere Harvester Works OMH91055 K4

> LITHO IN 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, there are attachments 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.

Timing gear 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 bring with you 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.

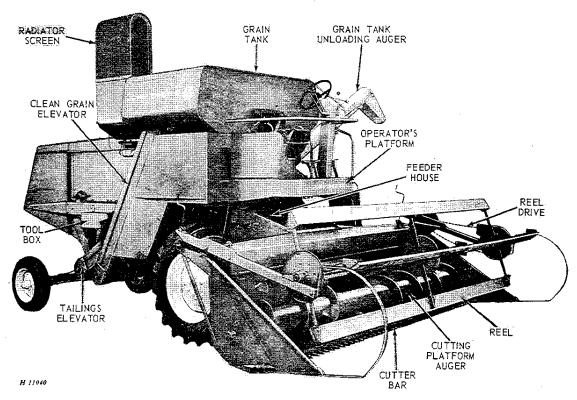
The engine serial number is on a plate located on top of the flywheel housing.

The axle serial number is on the top, lefthand end of the axle tube.

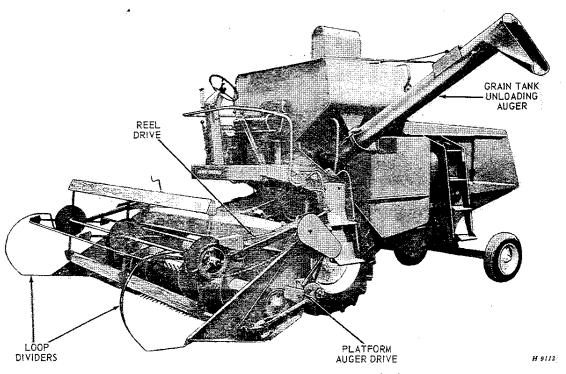
The cutting platform serial number is on a plate located on the outside of the right-hand platform divider.

Record these Serial Numbers in the space provided below.

Combine serial no.	
Engine serial no.	
Axle serial no.	
Cutting platform serial no.	
Date purchased	
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Right-Hand Front View - John Deere 45 Grain Tank Combine



Left-Hand Front View - John Deere 45 Grain Tank Combine



# **SPECIFICATIONS**

#### COMBINE

CUTTER BAR	GRAIN CONVEYOR
Width of cut 8-ft. 6-in., 10-ft. 6-in.,	Type Slat
or 12-ft. 6-in.	Drive Chain
Length of cutter bar. 8 ft., 10-ft., or 12-ft.	CLEANING FAN
Type of knife sections Heavy-duty	Type 5-bladed undershot
overserrated	Drive V-belt
REEL	Speed range 593 rpm to 810 rpm
Drive Chain	CHAFFER
Number of slats. 4 regular; 3, 6, or 8 special	Type Adjustable
Diameter of reel 32-in, to 40-in.	Width
Speed range 13 rpm to 45 rpm	Length—with tailings finger bar . $54-3/4-in$ .
CUTTING PLATFORM	Area 1246 sq. in.
Type of feed Auger	SIEVE
Range of cutting height:	Type Adjustable
Grain 2-in. below wheel level	Width 22-3/4-in.
to 31-3/8-in. above	Length 43-7/8-in.
Rice 3-in. below wheel level	Area 1000 sq. in.
to 30-3/8-in. above	TOTAL CLEANING AREA 2246 sq. in.
Height control 2 hydraulic cylinders	STRAW WALKERS
CUTTING PLATFORM AUGER	Number Three
Diameter 18-in.	Width $\dots 7-7/8-in$ .
Diameter of auger tube 10-in.	Length—with pans extended 113 in.
Type of auger fingers Round retracting	Area 2938 sq. in.
CYLINDER	Number of steps Five
Type Rasp-bar or spike-tooth	Drive V-belt
Width 26-in.	Bearings Oil-soaked maple
Diameter 22-in.	Extension pans One on each walker
Number of bars . 8 Rasp-bars or 10 spike-	GRAIN TANK
tooth bars (five 12-tooth	Capacity 50-bushel, approx. (Type and
bars and five 13-tooth	condition of crop will de-
bars)	termine actual volume)
Drive Roller chain	BRAKES
Speed range 175 rpm to 1095 rpm	Type Individual, mechanical disk-type
CONCAVE	TRANSMISSION Automotive—3 speeds for-
Type 12-bar open type or spike-tooth type	ward, 1 reverse
Width	STEERING Power
BEATER (Behind the cylinder)	WEIGHTS
Type Wing	Grain combine with 10-foot cutting
Width 26-in.	platform 7050 lbs. (approx.)
Diameter 12-in.	Rice combine with 10-foot cutting
Speed 650 rpm	platform 7350 lbs. (approx.)
SEPARATOR	
Type Grain conveyor, straw walker	
Width	
Length of separating surface 130-in.	
(Straw walker pans extended)	
Area of separating surface 3380 sq. in.	

#### TIRE SIZES AND WHEEL TREAD DIMENSIONS

Center-to-Center Wheel Tread				Center-to-Cente Wheel Tread	r	
Main Wheel Tire Sizes	Regular Axle	Wide Axle	Guide Wheel Tire Sizes	Regular Axle	Wide Axle	Wide Axle
13.6-26 (6-ply) 14.9-26 (6-ply) 16.9-26 (6-ply) 18.4-26 (6-ply)	72 in. 73 in. 75 in. 76-1/2 in.	84 in. 83 in. 81 in. 79-1/2 in.	5.50-16 (4 ply) 6.00-16 (4 ply) 6.50-16 (4 ply) 7.50-16 (4 ply) 7.50-18 (4 ply)	42 in. 44 in. 44 in. 44 in. 43 in.	59 in. 61 in. 61 in. 61 in. 60-1/4 in.	73 in. 75 in. 75 in. 75 in. 74-1/4 in.

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

#### SELECTIVE GROUND SPEED CONTROL RANGE

13.6-26 (12-26) Tires—Grain Drive	18.4-26 (15-26) Tires-Rice Drive		
(Min.) (Max.)	(Min.) (Max.)		
1st Gear 0.69 to 1.78 mph	1st Gear 0.65 to 1.69 mph		
2nd Gear 1.50 to 3.88 mph	2nd Gear 1.42 to 3.69 mph		
3rd Gear 3.54 to 9.16 mph	3rd Gear 3.36 to 8.71 mph		
Reverse 1.56 to 4.04 mph	Reverse 1.48 to 3.84 mph		
14.9-26 (13-26) Tires-Optional	16.9-26 (14-26) Tires—Optional		
(Min.) (Max.)	(Min.) (Max.)		
1st Gear 0.71 to 1.85 mph	1st Gear 0.73 to 1.89 mph		
2nd Gear 1.55 to 4.02 mph	2nd Gear 1.59 to 4.12 mph		
3rd Gear 3.66 to 9.48 mph	3rd Gear 3.75 to 9.72 mph		
Reverse 1.62 to 4.18 mph	Reverse 1.66 to 4.29 mph		

#### **ENGINE**

NOTE: For LP-gas or diesel engine specifications, see operator's manual furnished with LP-gas or diesel combine.  Make of engine John Deere HA-165 G Bore	Valve arrangement Valve-in-head Valve clearance:  Intake 0.12-in. (cold) Exhaust 0.18-in. (cold) Make of governor Pierce Make of carburetor Marvel-Schebler Air cleaner Dry type  Spark plug: Type Champion H-10, Auto-Lite AL-7, or AC-45L Gap 0.0025-in. Heat range 1200° to 1500° F Electrical system 12-volt Cooling system Water pressure type Type of fuel Gasoline (regular grade)			
strainer in bottom of pan  *Calculated at 60°F. and 29.92 inches Hg. at sea-level.				
"Calculated at by F. and 27.72 inches rig. at sea-level.				
CAPACITIE	S (Approx.)			
Fuel tank	Hydraulic unit (including hydraulic oil			

(Specifications and design subject to change without notice.)

7 U.S. quarts

lines and cylinders) . . . . 11-1/2 U.S. quarts

Cooling system (Radiator) . . . 14 U.S. quarts

Engine crankcase (with filter).

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