

JOHN DEERE 105 HI-LO COMBINE

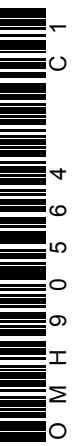


OPERATORS MANUAL JOHN DEERE 105 HI-LO COMBINE

OMH90564 C1 English

JOHN DEERE HARVESTER WORKS
OMH90564 C1

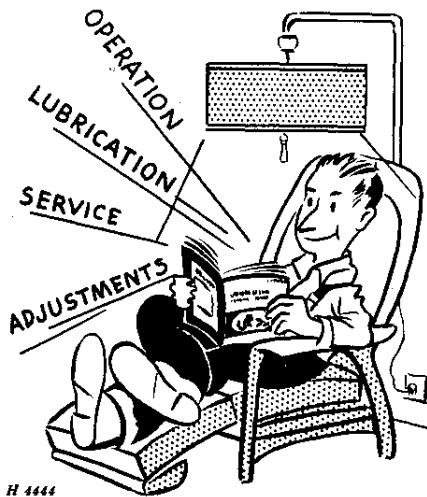
LITHO IN THE U.S.A.
ENGLISH



To the purchaser

The self-propelled combine you have just purchased was designed and manufactured to the traditionally high quality standards of all John Deere Farm Equipment. Your combine has been thoroughly inspected and tested, not only at the factory, but at your dealer's by a trained John Deere Serviceman. We are confident that you will receive years of dependable, economical service from your John Deere Self-Propelled Combine.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any questions that may arise regarding the operation and handling of the combine. He has specialized mechanics who are kept informed on the best methods of John Deere Combine servicing, and can give you prompt know-how service in the field or in his shop.



Study this manual carefully, keep it handy, in a safe place, for future reference.

Location reference

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

"Clockwise" refers to parts turning to the right like the hands of a clock. "Counter-clockwise" refers to parts turning to the left.

Timing gear end of the engine is referred to as the "front;" flywheel end as the "rear."

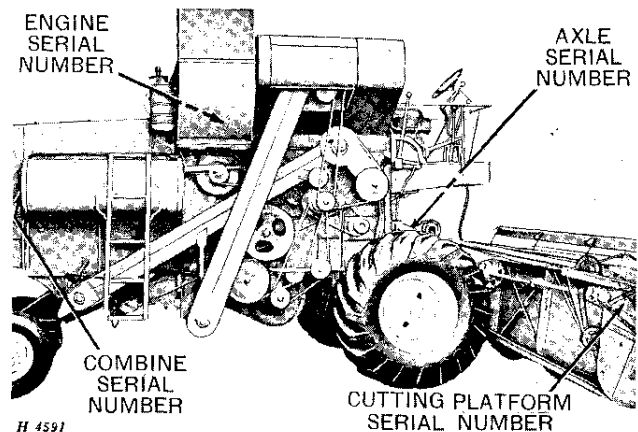
Keep your combine a John Deere Combine

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.

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 end 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, 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.

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



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specifications

CUTTER BAR

Width of cut . . . 14-ft., or 16-ft. (rice) 14-ft., 16-ft., 18-ft., 20-ft., or 22-ft. (grain)

Length of cutter bar 13-ft. 6-in. or 15-ft. 6-in. (rice) 13-ft.-6-in., 15-ft. 6-in., 17-ft. 6-in., 19-ft. 6-in., or 21-ft. 6-in. (grain)

Type of knife sections Heavy-duty overserrated

REEL

Drive Variable-belt and chain

Number of slats 4 regular; 3, 6, or 8 special

Diameter of reel 32-in. or 40-in.

Speed of range 16.5 rpm to 58 rpm

Height control Hydraulic

CUTTING PLATFORM

Type of feed Auger

Cutting height
Range (18.4-26 tires) 2-1/2-in. below wheel level to 35-in. above

Cutting height
Range (23.1-26 tires) 2-1/2-in. below wheel level to 38-in. above

Height Control Hydraulic (2 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 49-1/2-in.

Diameter 22-in.

Number of bars 8 rasp-bars or 10 spike tooth bars (5 bars with 19 teeth and 5 bars with 20 teeth)

Drive Roller chain

Speed range 276 rpm to 1190 rpm

CONCAVE

Type 12-bar open type or spike-tooth type

Width 49-1/2-in.

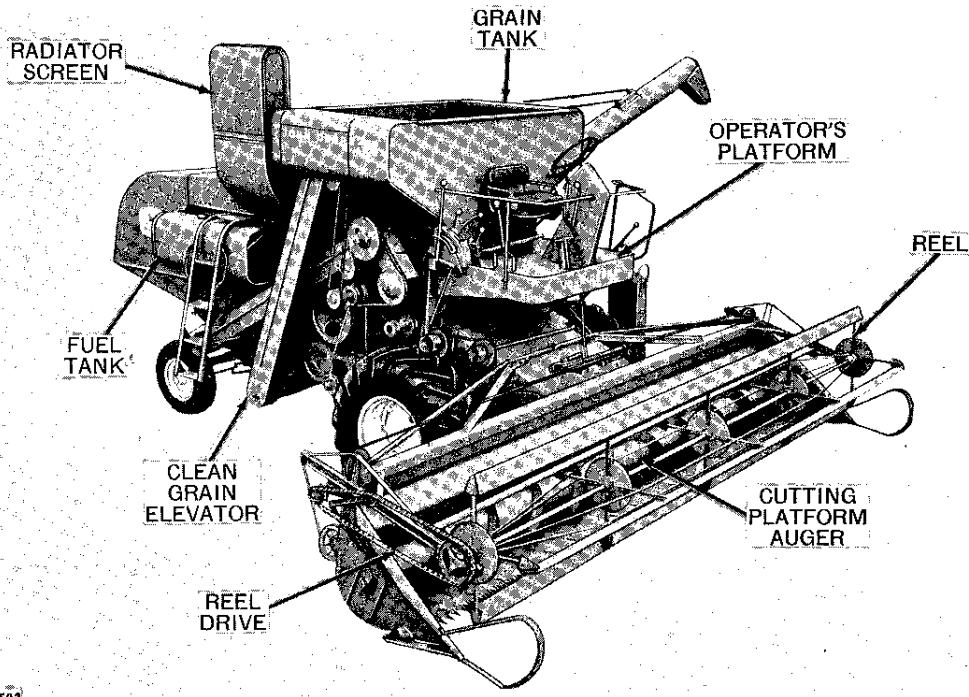
BEATER (Behind the cylinder)

Type Drum

Width 49-1/2-in.

Diameter 12-in.

Speed 680 rpm



SEPARATOR

Type Grain conveyor, straw walker
 Width 49-1/2-in.
 Length of separating surface . . 140-in. (Straw walker
 pans extended)
 Total separating area 6,930 sq. in.

GRAIN CONVEYOR

Type Slat
 Drive Chain

CLEANING FAN

Type 5-bladed undershot
 Drive V-belt
 Speed range 550 rpm to 1050 rpm

CHAFFER

Type Adjustable
 Width 48-in.
 Length 48-1/2-in.
 Area 2,330 sq. in.

SIEVE

Type Adjustable
 Width 48-in.
 Length 45-in.
 Area 2,160 sq. in.

CHAFFER EXTENSION

Type Adjustable
 Width 48-in.
 Length 12-5/16-in.
 Area 591 sq. in.

TOTAL CLEANING AREA OF CHAFFER, SIEVE, AND CHAFFER EXTENSION 5,066 sq. in.

STRAW WALKERS

Number Five
 Width 9-1/2-in.
 Length 115-in.
 Area 5,462-1/2 sq. in.
 Number of steps Five
 Drive V-belt
 Bearings Oil-soaked maple
 Extension pans One on each walker

GRAIN TANK

Capacity 75 Bushel, approx. (Type
 and condition of crop will
 determine actual volume)
 Type of unloading Hinged auger

BRAKES

Type Individual, mechanical disk-type

TRANSMISSION

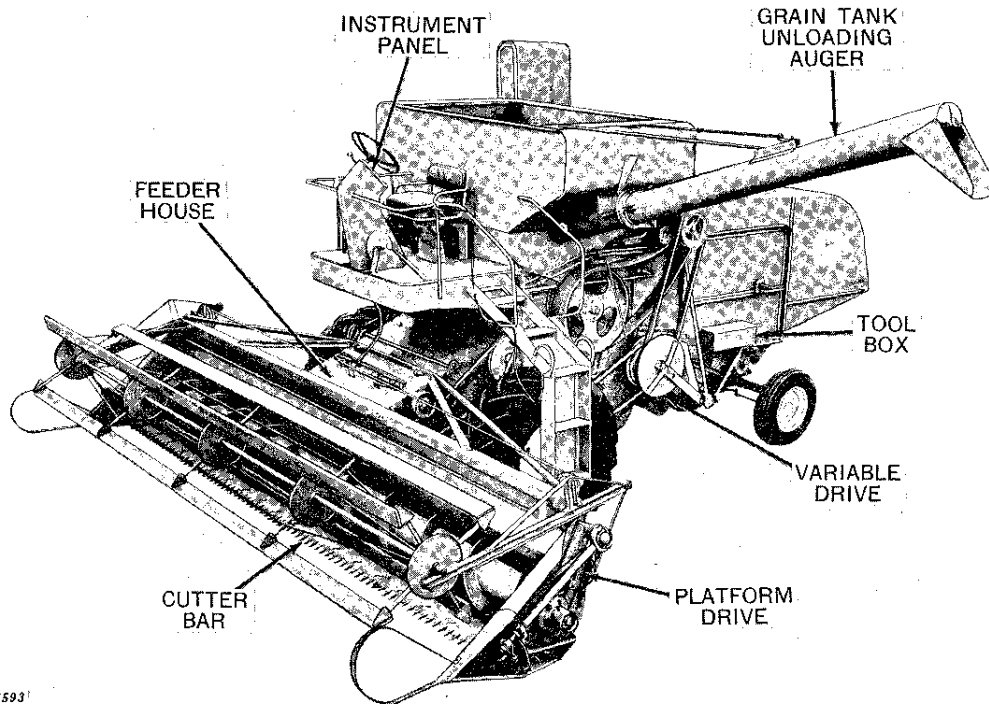
Type Automotive type—4 speeds
 forward, 1 reverse

WEIGHT

Combine with 16-ft. cutting
 platform 12,600 lbs. (Approx.)

DIMENSIONS

. See pages 6-7



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