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New Idea

Operator's Manual

6503, 6504, 6506,

6513 & 6514

Corn Heads

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NI-O-6503+

Operator's Manual

OPERATOR'S MANUAL

NO. US-241
(986836)



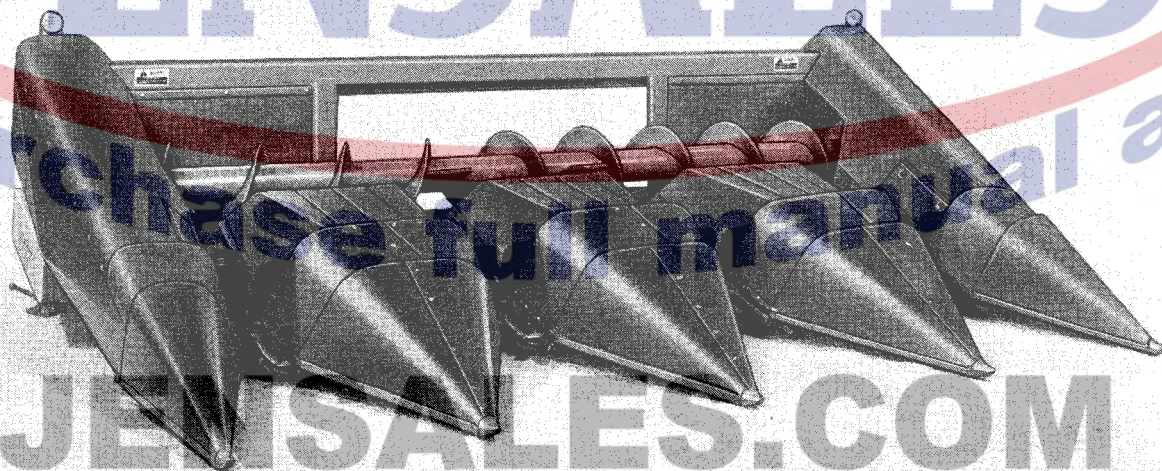
6503 - 6513

6504 - 6514

6506

CORN HEADS

EFFECTIVE LOT NO. US 455 ...



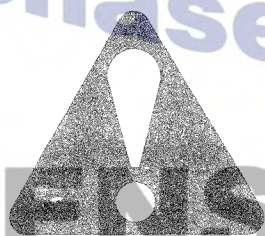
For the Dealer and Operator

Read this operator's manual • Save it for reference

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ATTENTION!

Pictures in this MANUAL may show protective shields and guards opened or removed for illustration purposes. BE CERTAIN ALL SHIELDS AND GUARDS ARE IN PLACE DURING OPERATION.

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INTRODUCTION



Fig. 4 -

Figure 4

The Model 6500 Series Corn Heads are available in five different models. They are as follows:

Model	6503	6513	6504	6514	6506
Rows	3	3	4	4	6
Row Width (Std.)	30"	38"	30"	38"	30"
	(762 mm)	(965 mm)	(762 mm)	(965 mm)	(762 mm)
Field Conversion (Without Kit)	28"	36"	28"	36"	28"
	(711 mm)	(914 mm)	(711 mm)	(914 mm)	(711 mm)
Field Conversion (With Kit)	---	---	---	40"	---
				(1016 mm)	

The illustration above shows the optional crop deflector described on Page 29.

The 6500 Series Corn Heads attach to the following:

Feeder Houses

740 840
741 841

Forage Harvester Corn Head Adapters

770
870

Processing Units w/Feeder Houses

839 Husker
880 Ear Corn Harvester

NOTE: Six-row models are not recommended for the 717 Combine, 767 Forage Harvester, and 729A Sheller.

CORN HEAD

HARVESTING METHOD

CORN HEAD				HARVESTING METHODS						
				Ear Corn			Shelled Corn		Ground Ear Corn	
				880	737	839	717	819	858	868
6503	3	Row	Narrow*		X		X			X
6513	3	Row	Wide	X	X	X	X	X		X
6504	4	Row	Narrow	X	X	X	X	X	X	X
6514	4	Row	Wide	X	X	X	X	X	X	X
6506	6	Row	Narrow	X	X	X		X	X	X

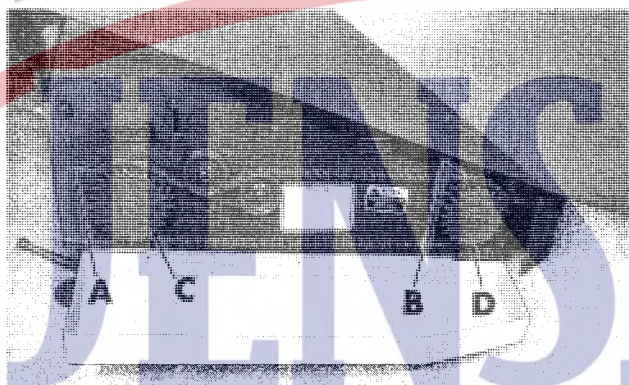
*Not recommended for use with wide processing units.

The 6500 series stripper plate corn heads are especially designed to do a superior job in today's heavy yield corn. Greater capacity has been built into the machines, along with dependability and ease of operation.

Before starting the corn head in the field for the first time, check the need for lubrication as described on Page 8. Check to see that all parts are working freely. Operate at slow speeds for a short period of time. Study the trouble shooting Chart on Pages 32 & 33. The information it contains will save a lot of time in the field.

Check your machine to see that all adjustments, dimensions, etc. are as described on Pages 11 thru 15.

When harvesting, the machine should be operated at correct engine R.P.M. for processing unit. Always harvest planter rows, and follow the rows carefully. Make sure the stalk rolls and stripper plates are adjusted according to crop conditions. This is very important for successful operation. Forward travel of the unit must be determined by corn condition, field condition, and yield per acre.



US 6500-18

Figure 8

SPEED CHANGES

DRIVER REAR	DRIVEN FRONT	ROLL R P M
18 *	27	590
21	27	670
21	24	750
24	27	765
24	24	860
27	24	965
24	21	980
27	21	1100

Figure 9

STALK ROLL & GATHERING CHAIN SPEEDS

Figs. 8 & 9 -

A wide range of row unit speeds is provided to match crop conditions and ground speed. The units are assembled at the factory with a 24 tooth sprocket "A" driving a 27 tooth sprocket at "B". This provides a roll speed of 765 R.P.M. This combination will permit traveling at speeds of 3 to 5 MPH in normal conditions. Sprocket "C" has 21 teeth and sprocket "D" has 24 teeth. Using these sprockets and the chart provided, the correct roll and gathering chain speeds to match the ground speed and crop conditions can be attained.

* **NOTE:** The special 18 tooth slowdown sprocket is optional and is available through our Parts Department under Part No. 302276.

ADJUSTMENTS



Figure 14

ROW UNIT SLIP CLUTCHES

Fig. 14 -

The ratchet type slip clutch "J" provides overload protection for each individual row unit drive. These clutches are adjusted at the factory and should never require any further adjustment. However, should they ever be removed, the clutch springs should be compressed to a minimum of 2 3/4" (60 mm) as indicated at "K".

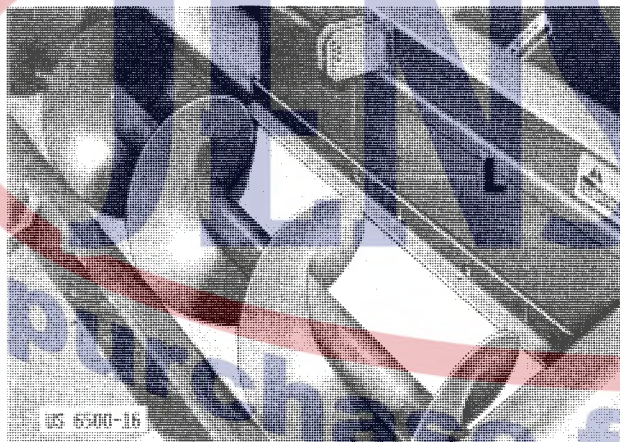


Figure 15

AUGER STRIPPERS

Fig. 15 -

Keep the auger strippers "L" (both sides) adjusted to within 1/8" (3 mm) of the auger at the closest point. This is to prevent wrapping and wedging of material. Turn the auger over slowly to check the setting. Loosen the mounting bolts and adjust strippers accordingly.

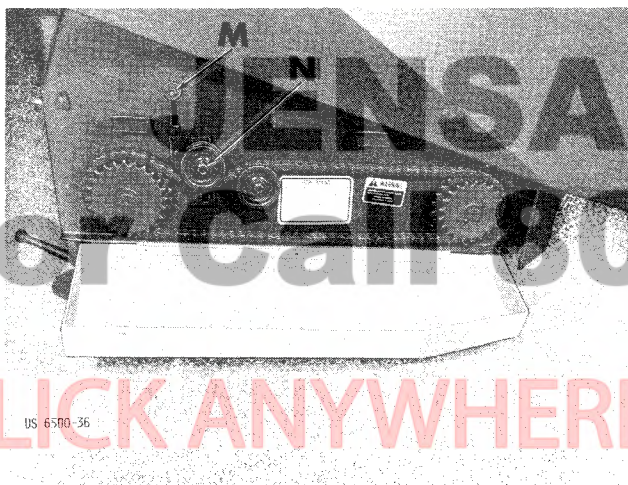


Figure 16

DRIVE CHAINS FOR AUGER AND ROW UNITS

Fig. 16 -

Keep the cross auger drive chain slide "M" and the row unit drive chain idler "N" adjusted to the point where the chains will not whip or jump teeth on the sprockets.

NOTE: One row unit drive chain found on three row and two found on four and six row units (one on each side).