

JOHN DEERE 400 HAY CUBER



OPERATORS MANUAL

JOHN DEERE 400 HAY CUBER

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INTRODUCTION

Your new John Deere Hay Cuber is a dependable machine. With proper care and operation, you can expect to receive the service and long life designed and built into it. Like any precision machine your cuber will require some attention at regular intervals. When any questions arise regarding lubrication and adjustments, etc., use your manual as a guide to service your machine the RIGHT WAY.

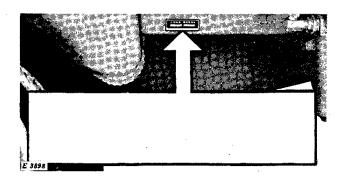
For engine service not covered in this manual or for parts service, see your General Motors Detroit Diesel Engine distributor or dealer.

If you need additional information or special service on the Hay Cuber, see your John Deere dealer.

When in need of parts either to replace worn parts or to make emergency repairs, see your local John Deere dealer.

When ordering parts, give your dealer the model and serial number of your cuber. This information will help him give you prompt and efficient service.

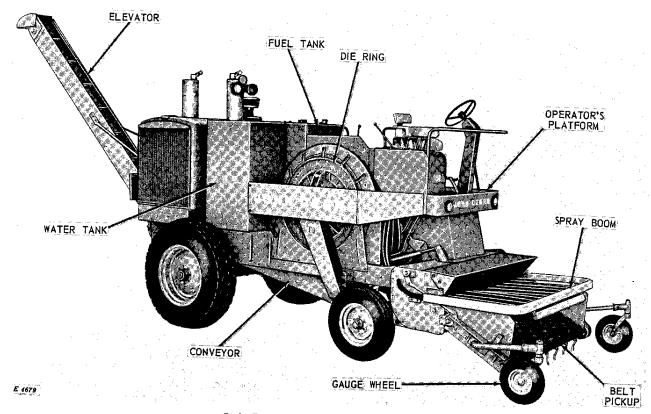
The serial number of your cuber is located on the left-hand side of the main frame between the ladder and the front wheel. (Record it in the space below.)



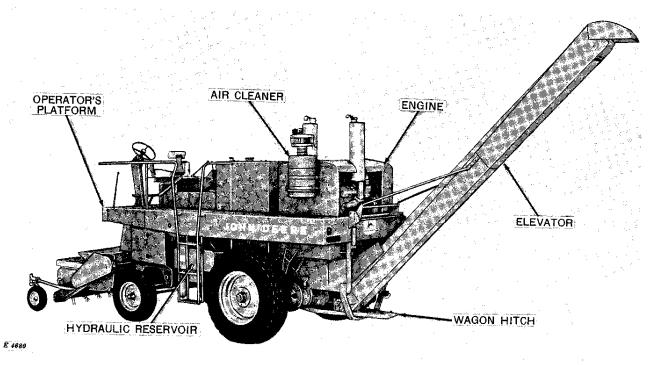
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NOTE: Right- and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing in the direction of travel.



Right Front View-John Deere 400 Hay Cuber



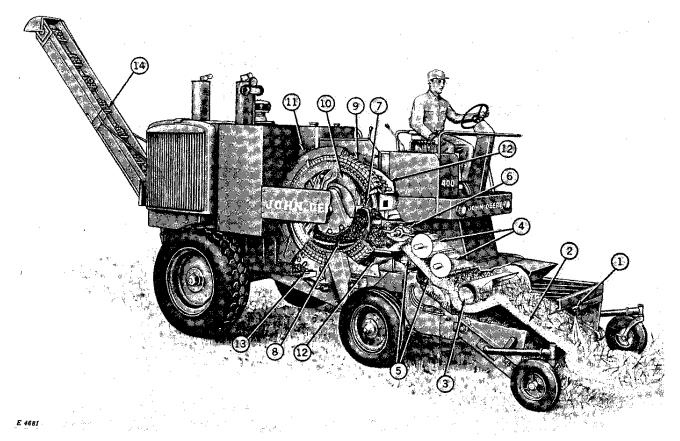
Left Rear View-John Deere 400 Hay Cuber

SPECIFICATIONS

Over-all length: Pickup gauge wheel to hitch. 20 feet 6 inches With elevator lowered 31 feet 1 inch Width 8 feet Height: With elevator lowered 12 feet Without elevator and mufflers 8 feet 10 inches Weight: Empty Approximately 13,200 pounds With fuel and water tanks full . Approximately 16,205 pounds	Pickup draper belt speed 313 rpm or 3.6 mph Pickup auger diameter 18 inches Feed opening width 20 inches Number of cutterhead knives 2 Cutterhead speed
Propelling drive Variable with V-belt	
Ground speeds:	Unit density of cubes 45-55 pounds per cubic foot
variable range 1st	Bulk density of cubes 25-32 pounds per
variable range 2nd 1.3 — 3.3 mph	cubic foot
variable range 3rd 3.0— 6.7 mph	Length of cube 2 to 3 inches
variable range 4th 6.0-13.4 mph	Conveyor and elevator chain CA 2050 with
variable range reverse 1.7- 3.8 mph	rubber flights
Tire sizes:	Water pump:
rear-low-profile all-weather	Type Centrifugal
$(28 \text{ psi}) \dots 14.9 \times 26, 8-\text{ply}$	Capacity @2,800 rpm
front-rib implement	and 25 psi 68 gallons per minute
$(40 \text{ psi}) \dots 7.50 \times 16, 6-\text{ply}$	Water tank protection Coated inside with
front gauge wheels—smooth implement	corrosion-resistant material
(12 psi) 4.00 x 8, 4-ply	ENCINE
Wheel tread—center to center: Rear	ENGINE
Front	Make of engine Detroit Diesel 6V-71
Front gauge wheels 90 inches	Model No Model 7064-7200
Steering Full hydrostatic	Engine type 2 cycle
Brakes Individual, mechanical disk type	Bore and stroke \dots 4-1/4 x 5 inches
Capacities: (All U.S. Measure)	Net rated horsepower:
Fuel tank 83 gallons	@85°F, and 500 ft. elev 216 h.p.
Water tank 300 gallons	Number of cylinders 6
Engine cooling system 11 gallons	Piston displacement 425.6 cubic inch
Engine crankcase with filter 5 gallons	Speed: No load 2250 rpm
Transmission 14 pints	Full load 2100 rpm
Final drives each 4-1/2 pints	Idle speed
Planetary gear box	Air cleaner Dry type
Hydraulic reservoir 8 gallons	Electrical system 12-volt generator
Hydraulic system (complete) 10 gallons Main clutch 11 inches O.C., double plate	Type of fuel Diesel Compression ratio
Pickup width between flares 6 feet 1 inch	Battery size . 12-volt SAE Group 8D, 205 amp
Tionap with between Hates o foot 2 men	Duttery Bille Ill Fort Dist Group on, 200 amp

(Specifications and design are subject to change without notice.)

HOW THE CUBER WORKS



For a better understanding of the operation of your cuber and the importance of the various adjustments in this manual, knowledge of the cubing cycle is important.

After alfalfa has field-cured to about 10 percent moisture, it is ready for cubing. Upon pick-up by the cuber the hay is sprayed with water (1). A belt-type pickup (2) picks up the windrow-preferably made with a windrower—as it does a clean job and saves a maximum number of leaves. The water and a natural soluble adhesive found on the surface of the alfalfa plant make the "glue" which helps bond the cube. The high pressure of the cuber completes the bonding.

An auger behind the pickup (3) takes the crop from the pickup and center-feeds it to the first of two identical sets of feed rolls. Drum-type rolls (4) are on the top of each set; smooth rolls (5) are on the bottom. The smooth roll design and solid deck reduce leaf loss.

A reel-type, two-knife cutterhead (6) chops the hay. In addition, the cutterhead serves as a

mixing unit and delivers the chopped material to the auger feeder.

A large-diameter auger (7), and five spiral bars (8) on the inside of the auger housing, move material uniformly to all of the openings in the die ring (9).

As the material leaves the auger flight, a single, heavy, large-diameter press wheel (10) forces the material into and through the 66 die openings in the die ring.

An adjustable deflector (11) around the outside of the die ring breaks off cubes in lengths from 2 to 3 inches. The die ring is open at the top so the operator can reach down and check cube samples as they leave the ring.

Sheet-metal chutes (12) channel the cubes to a conveyor (13) located beneath the die ring. The conveyor then carries the cubes to the elevator (14) at the rear of the machine, which delivers them into the trailing wagon.

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