

No. 1-B Hand Corn Sheller



OPERATORS MANUAL

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Corn Sheller

OMC7352 C2 English

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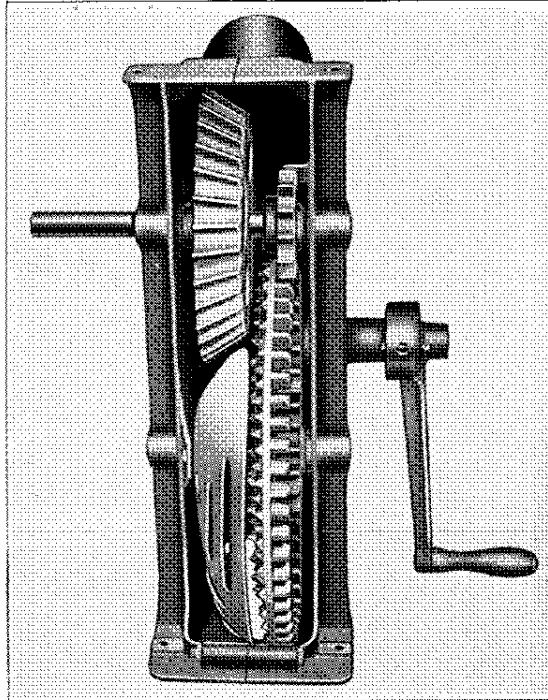
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ENGLISH



WHY THE JOHN DEERE HAND SHELLER RUNS EASIER

The biggest reason why ordinary hand shellers are hard running is because shafts and bearings are not in alignment. And when they are out of alignment, the shelling mechanism does not run true and heavy draft results.

In the John Deere Hand Sheller, the shelling mechanism is carried in a two-piece cast-iron housing which keeps shaft and crank bearings in proper alignment at all times. The two-piece housing is accurately machined in a jig which bores and faces all bearings and bolt holes at one time. (This machine is of the type used in drilling gear cases in John Deere Tractors.) Shafts turn on high-grade bronze bearings, insuring smooth, easy running. These bearings are the same as are used on the wrist pins of some makes of tractors.



WHY THE JOHN DEERE DOES A REAL JOB OF SHELLING

Each ear of corn, as it is fed into the sheller throat, passes between the bevel runner, the straight runner, and the pivoted rag iron, which, under spring pressure, holds the ear of corn in shelling position. The shelling wheels are so set that, with the rag iron, they form a triangular opening thru which the corn must travel. The straight runner revolves the ears of corn, the bevel runner does the shelling, and the adjustable rag iron holds the ear so that all the kernels are shelled off the cobs.

NEW RATCHET CRANK

The hand crank is of the ratchet type. This type of crank eliminates danger of injury to the operator from a revolving crank after letting go of the handle.

Date Purchased _____ 19____.

OPERATING INSTRUCTIONS

RAG IRON ADJUSTMENTS

To meet different shelling conditions, the rag iron pressure can be increased or decreased by means of the nut and washer on the rag iron spring.

In addition, the rag iron can be adjusted forward or backward as at "A" and "B" making it possible to shell either large or small, dry or damp corn.

For shelling extremely small rice, popcorn, use the special rag iron (6761-C) and cob guard (6760-C).

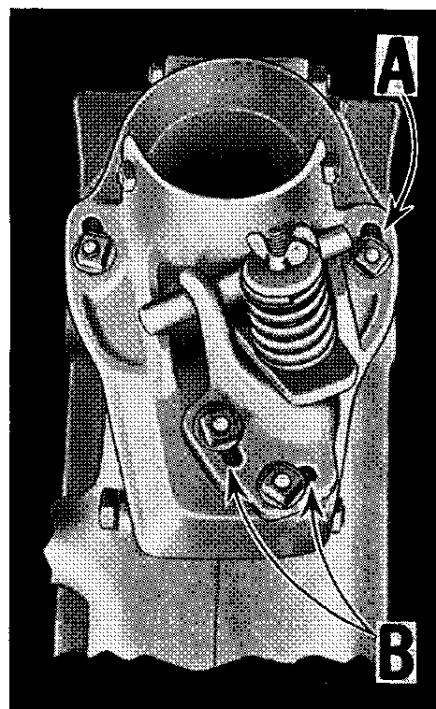


Figure 1

BASKET RACK OR FEED TABLE

Either the basket rack or feed table can be used with the sheller.

The basket rack is adjustable up or down, to take care of different sizes of baskets or boxes. See Figures 2 and 3.

SEED CORN TIPPER

(EXTRA WHEN ORDERED)

The seed corn tipper saves many hours of tedious hand tipping. It is attached with set screw to the bevel runner shaft, next to the flywheel. See Figure 2.

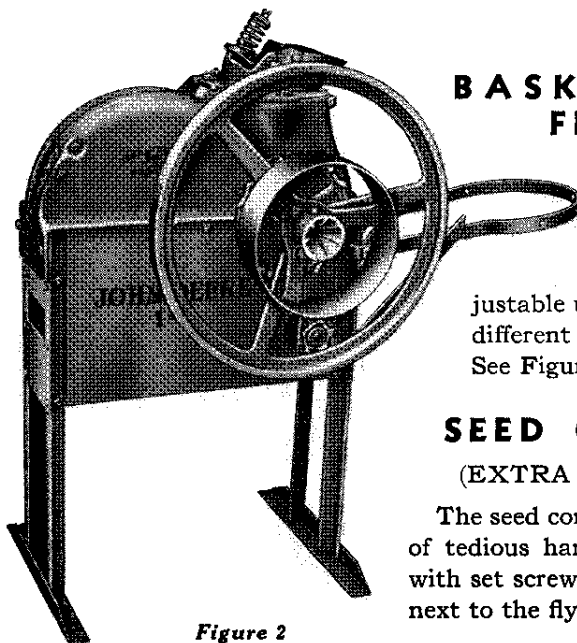


Figure 2

PULLEY EQUIPMENT

A 10-inch by 3-inch pulley can be furnished, as an extra, if it is desired to operate sheller with a small gas engine. See Figure 2.

MOTOR ATTACHMENT

When it is desired to operate the sheller with a small electric motor, an adjustable motor bracket is available, which attaches to the sheller legs.

The bracket can be adjusted up or down to regulate belt tension.

Adjustments are provided for pulley alignment with different sizes and makes of motors.

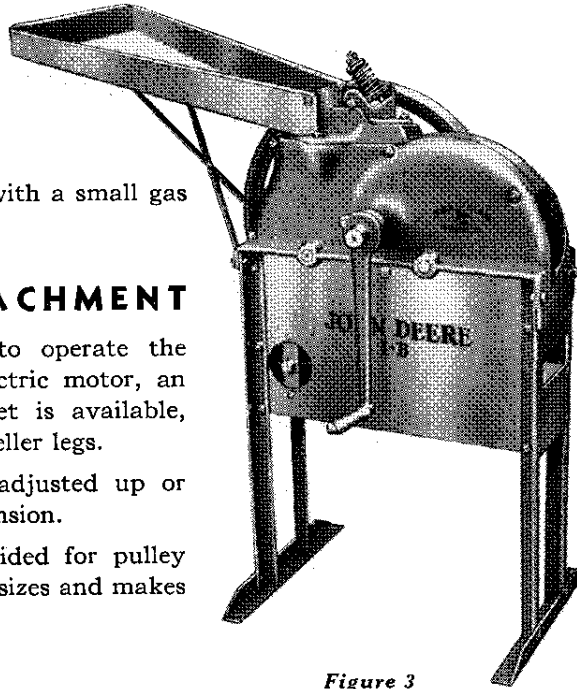


Figure 3

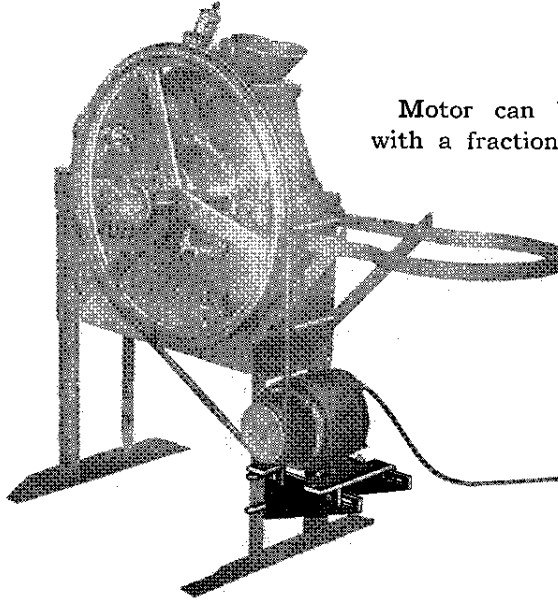


Figure 4

Motor can be belted to the flywheel with a fractional horsepower V-belt. Belt should be 6 to 7 feet long. A 4-inch motor pulley will operate the sheller at correct speed. See Figure 4.

ASSEMBLY

Remove all parts wired to sheller body.

Put on ratchet crank, as in Figure 5.

Put on the fan drive sheave and belt, then the balance wheel.

If sheller is to be run with engine, bolt the 10-inch by 3-inch pulley (extra when ordered) to the balance wheel, Figure 2.

If seed corn tipper is used, fasten to shaft with set screw, as in Figure 2.

Put on basket rack and extension for spout, Figure 5. Or, if feed table is used, fasten braces to table, then bolt to sheller body, Figure 3.

If sheller is to be run with an electric motor, bolt on the motor bracket (extra when ordered) to the rear legs, with hook bolts provided. Then bolt motor to brackets, put belt over flywheel and adjust brackets to proper tension, Figure 4.

Capacity, Power Requirements and Speed When Operated with Engine or Motor

Capacity per Hour	Power Required	SPEED
		Bevel Runner Shaft
10 to 20 bushels	1/4 H. P.	300 R. P. M.

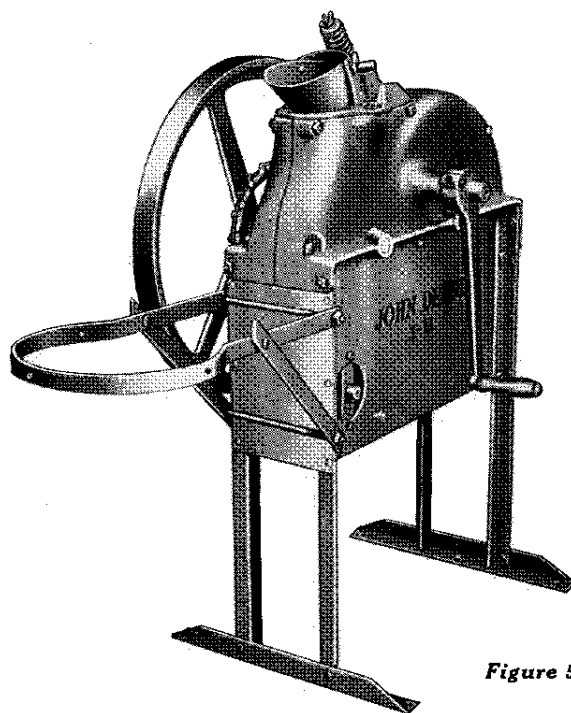


Figure 5

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