

NO. 110-A ROUGHAGE MILL AND FEED GRINDER



JOHN DEERE

OPERATORS MANUAL NO. 110-A ROUGHAGE MILL AND FEED GRINDER

OMC8457 D7 English

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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

The successful operation of your mill, which is designed to give you many years of satisfactory service, depends upon the care given and how it is operated.

Dull knives and hammers will not do good work but cause unsatisfactory service and expense. **KEEP KNIVES SHARP.**

The object of this Manual is to assist in setting up this mill correctly and to aid the user in operating it to the best advantage. See that the operator follows these instructions.

A mill incorrectly assembled or improperly operated cannot produce the best results.

Always give the SERIAL number of your mill when ordering REPAIR PARTS. This number is located on the body under the small feed table.

The Serial Number of your Mill is.....

Date Purchased.....

KEEP THIS MANUAL FOR FUTURE USE.

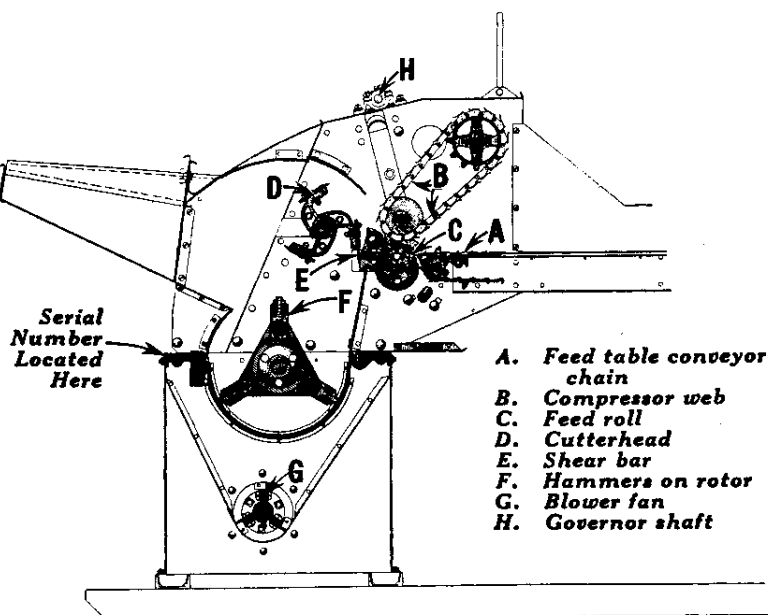
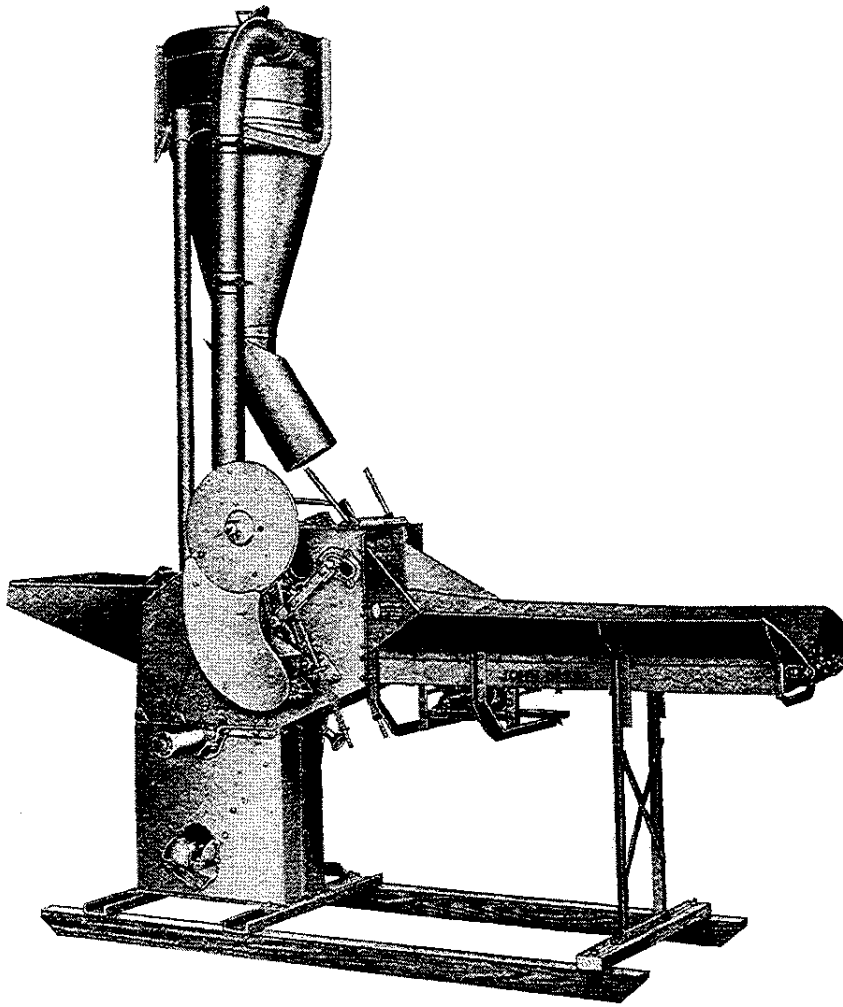
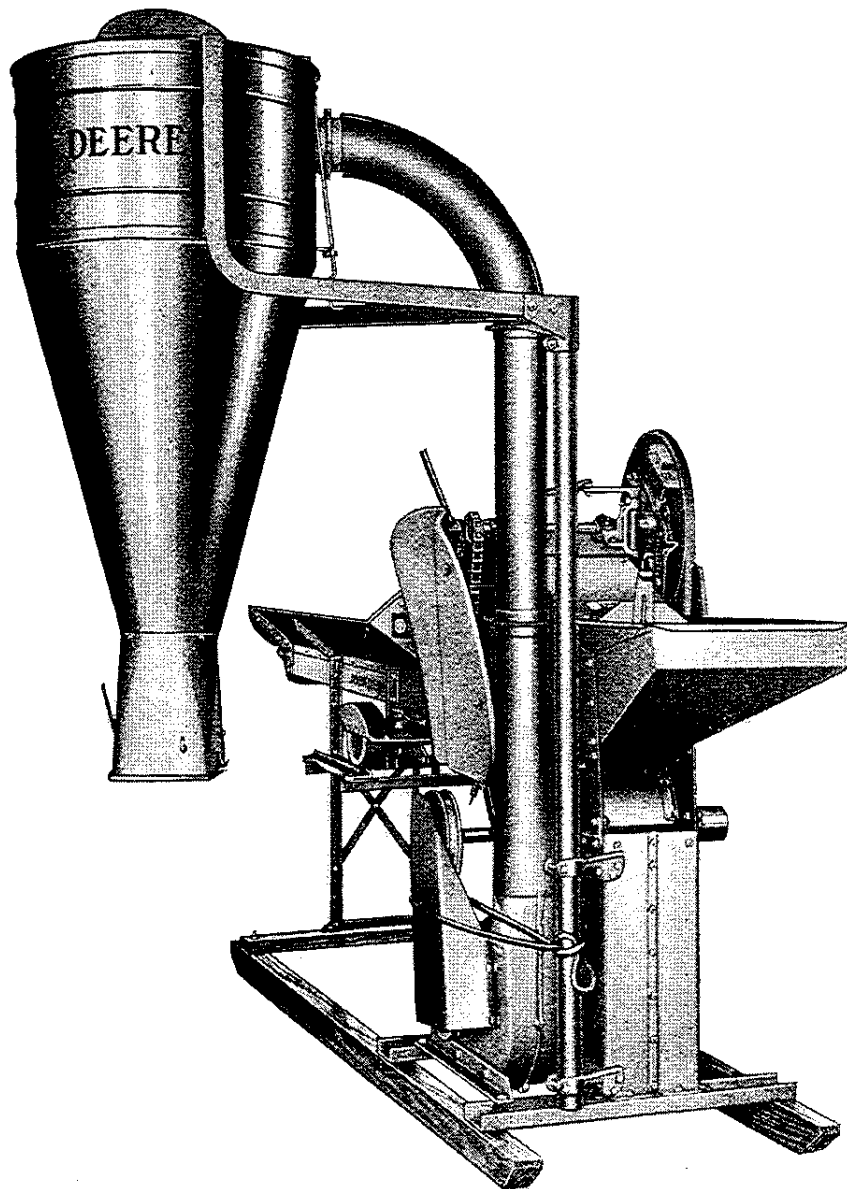


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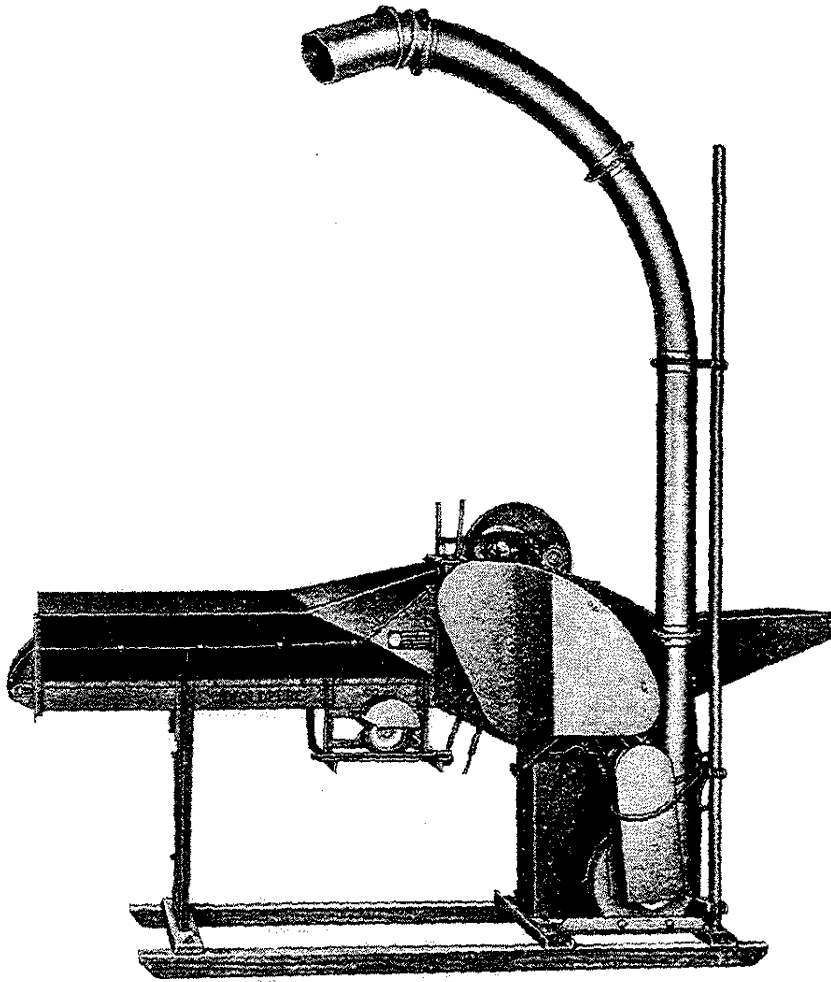
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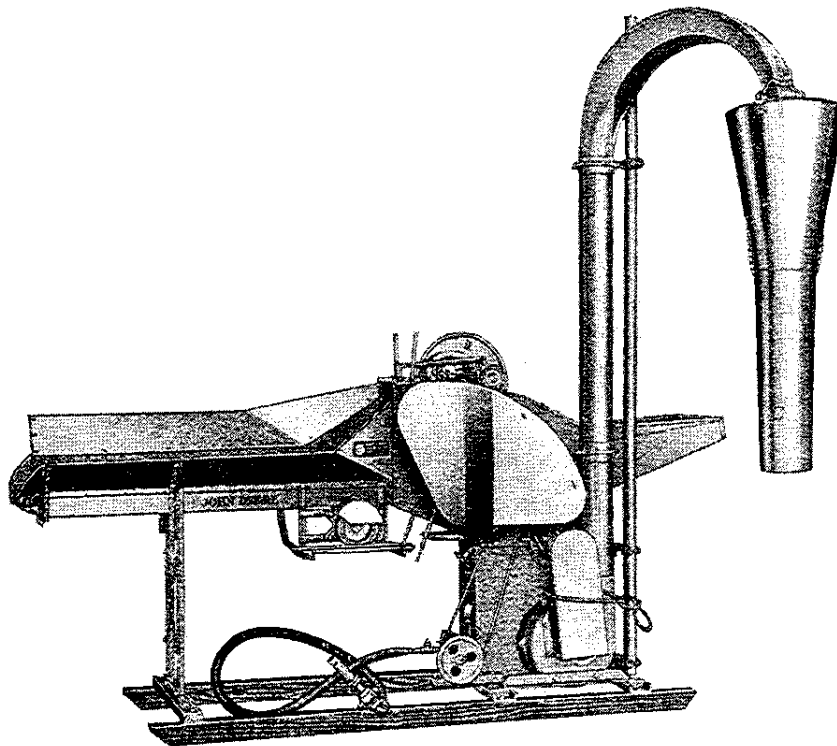
*John Deere No. 110-A Roughage Mill
with Wagon Box Equipment*



*John Deere No. 110-A Roughage Mill
with Sacking Equipment*



John Deere No. 110-A Roughage Mill with 45° Elbows, Adjustable Distributing Elbow and Sideboards, for Blowing Feed into Mows or Self-Feeders



John Deere No. 110-A Roughage Mill Equipped with Deflector, Flexible Spouting, Molasses Pump and One Sideboard.

OPERATING INSTRUCTIONS

The mill should be set either permanently or put on skids so it can be moved from one location to another. In either case, the mill must be anchored solidly before the power is applied.

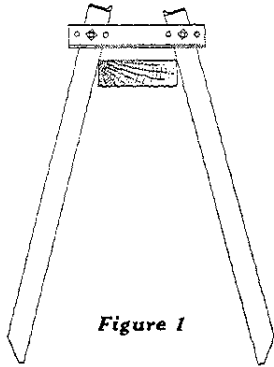


Figure 1

We can supply satisfactory steel stakes at a very reasonable price. Each stake should be driven at an angle to within a couple of inches of top of skid. Then bolt on the crossbar and finish driving both sides. Two J 15479C should be used on the pulley side and one on the opposite side, to hold the mill down firmly in alignment with the tractor pulley.

BELT

A hammer mill endless belt not less than 6" wide should be used that will give at least 25 feet between mill and tractor pulleys. A longer belt will be found more practical.

Do not use too much sticky belt dressing, as it collects on the pulleys and causes vibration and loss of traction.

We have found that many use a thin liquid dressing which stops slippage, preserves and softens belts. Ask your John Deere dealer about a suitable belt dressing.

To prevent a belt from whipping when it is used in windy conditions, drive a stake about halfway between the mill and tractor. Place it so it just clears the belt when the mill is not being operated.

DRIVE PULLEY

If pulley is changed on mill, be sure the nut is tightened as much as possible with a long wrench. Then lock the nut by bending over a corner of the square washer.

If there is belt slippage, check the belt for tension, alignment and stiffness. Then use belt dressing, as directed above, and be sure the mill is firmly anchored. Be sure the tractor speed is right.

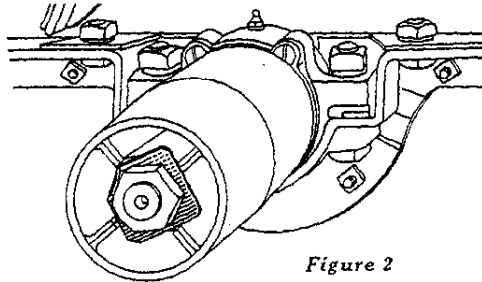


Figure 2

LUBRICATION

Keep governor parts well oiled.

The bearings on this mill are a close fit to give longer life. Best results can be obtained by using a high grade of gun grease of the type listed on page 7, which is suitable for all bearings on the mill. Too much gun pressure on the ball bearings will cause them to heat.

USE BEST GREASE

THESE HIGH-GRADE BEARINGS REQUIRE IT FOR SATISFACTORY SERVICE

Have your oil dealer get from his Manufacturer the recommended Grade of his grease that conforms to the following specifications:

Character of Grease	Lime Soap Base	Soda Soap Base
Soap Content	9 to 12%	15 to 20%
Dropping Point (A.S.T.M.)	175° Fahrenheit Minimum	300° Fahrenheit Minimum
Excess Acid or Alkali	Substantially Neutral	Substantially Neutral
Viscosity of Oil, Saybolt Universal, at 100° Fahrenheit	200 Seconds Minimum	300 Seconds Minimum

The grease shall be a well-manufactured product composed of suitable soap and refined mineral oil.

The grease shall contain no fillers, abrasives or harmful perfumes and shall be free from corrosive matter.

It is important that the grease must not decompose or become fluid at the operating temperature of the bearing.

CHAINS

To get the best results from the high-grade roller drive chains, they should be lubricated with a very light, high-grade oil.

Always clean the chains before oiling and wipe off excess oil to prevent dirt accumulating on chains.

BEFORE STARTING THE MILL

1. Check the traveling feed table and rotor housing for tools and other objects that may cause trouble.

2. To check the conveyor chains in feed table, use a box wrench on the collar at end of governor shaft to turn it. The conveyor chains in feed table should run with just enough tension to keep the chains from climbing the sprockets.

These sprockets on shaft at outer end of feed table need oiling often.

3. Open rotor hood. The cutterhead, rotor and fan shafts have all been run and tested at the factory and left there in correct adjustment. To check these adjustments for damage in shipment, revolve rotor by hand. Examine interior of mill body closely and remove any foreign objects.

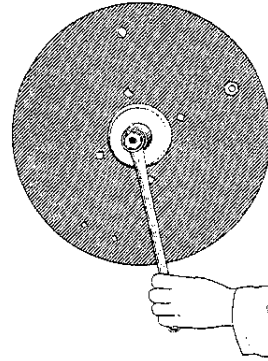


Figure 3

START MILL SLOWLY

Run mill slowly to make sure all drives are correct and bearings do not heat up.

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