

**20-A POWER MOWER FOR
320 AND 420 STANDARD,
TRICYCLE, AND ROW-CROP
UTILITY; 40 STANDARD AND
TRICYCLE; "M" AND "MT"
TRACTORS**



JOHN DEERE

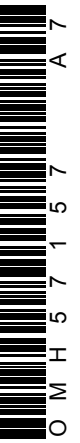
OPERATORS MANUAL

20-A POWER MOWER FOR 320 AND 420
STANDARD, TRICYCLE, AND ROW-CROP
UTILITY; 40 STANDARD AND TRICYCLE; "M" AND
"MT" TRACTORS

OMH57157 A7 English

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ENGLISH



TO THE PURCHASER

The mower you have just purchased was designed and built to the traditional high quality standards of all John Deere Farm Equipment. We are confident that you will receive years of dependable, economical service from your John Deere 20-A Mower.

The mower is one of the pioneer implements of the farm—as simple as a pair of shears—as efficient as a safety razor. However, like any other piece of machinery, your mower will require a certain amount of care and adjustment. Proper and thorough lubrication is vital to good performance and the long life of any machine.

This mower has been designed to fit and operate on the following John Deere Tractors: “320” Standard; “420” Standard, Tricycle, and Row-Crop Utility; “40” Standard and Tricycle; “M” and “MT”.

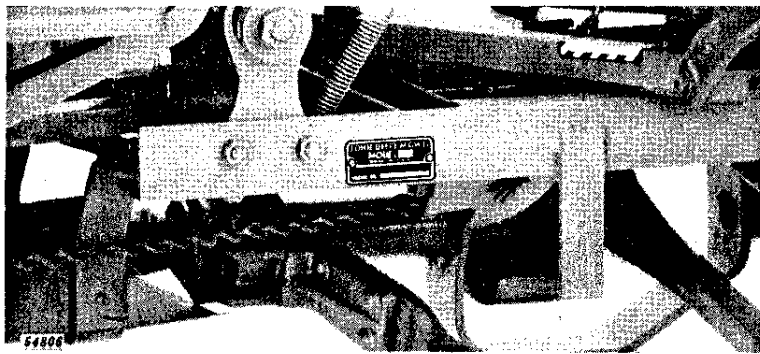
This manual has been carefully prepared and illustrated to provide you with the necessary information to hook up, adjust, service, lubricate and operate your new John Deere 20-A Power Mower to best advantage.

Read and Study This Manual Carefully. Keep It in a Handy Place and Refer to It Often.

Location Reference. “Right-hand” and “left-hand” sides are determined by facing in the direction the machine will travel when in use.

SERIAL NUMBER

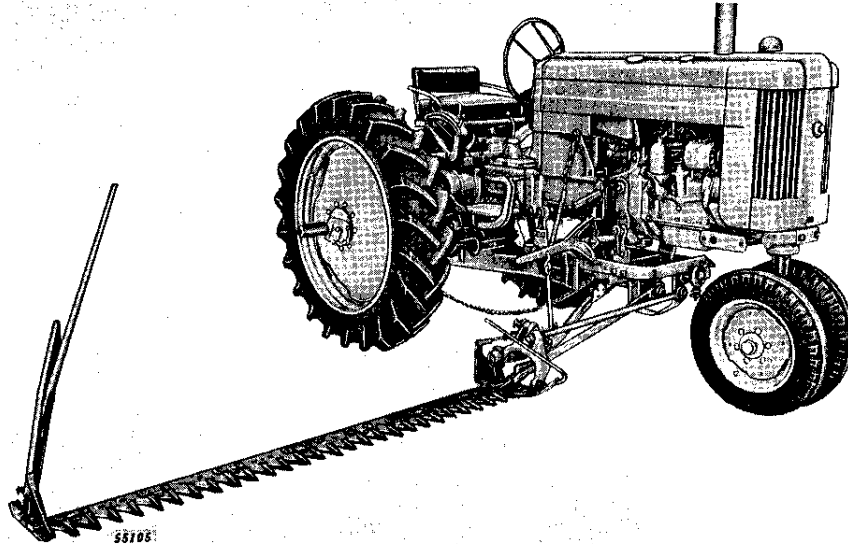
You will find the serial number of your mower stamped on a plate located on the right-hand side of the mower frame as shown in the illustration. Write this serial number in the space provided for handy reference later.



Mower Serial No.

Date Purchased.

SPECIFICATIONS



Length of Cutter Bar	5-, 6-, or 7-Foot
Type of Drive	V-Belt
Type of Power	Power Take-Off on Tractor
Tractor Hook-Up	Mounted on Tractor
Main Drive Shaft Bearings, Rear	Tapered Roller
Flywheel Shaft Bearing, Front and Rear	Tapered Roller
Wrist Pin Bearing, Front and Rear	Tapered Roller
Approximate Shipping Weight (Less Cutter Bar)	410 Lbs.

(Specifications and Design Subject to Change Without Notice.)

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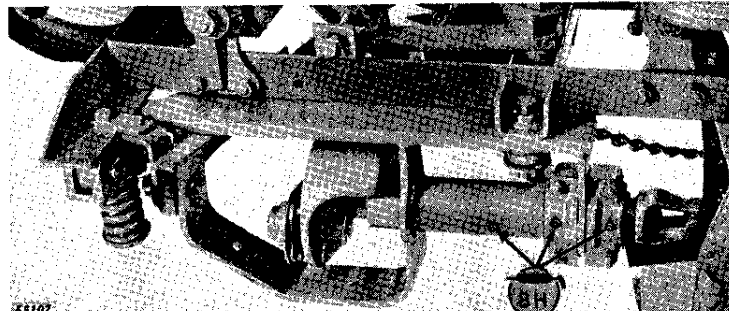
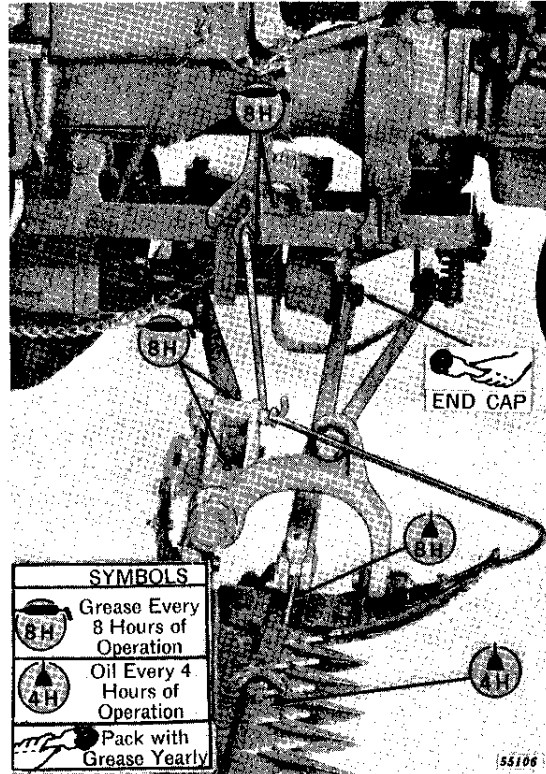
LUBRICATION

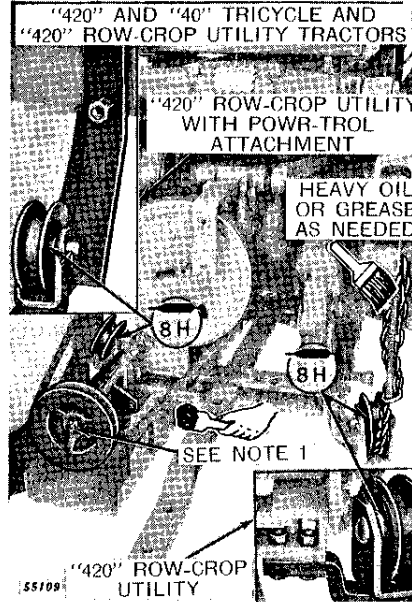
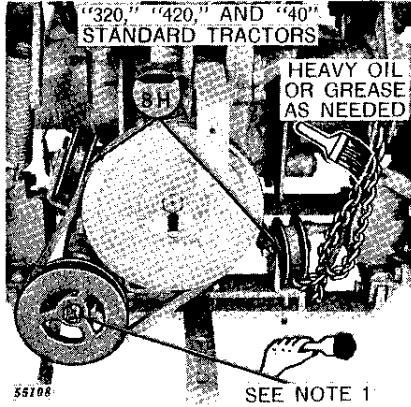
Wipe dirt from grease fittings and grease gun nozzle before greasing.

Replace all missing or damaged grease fittings immediately.

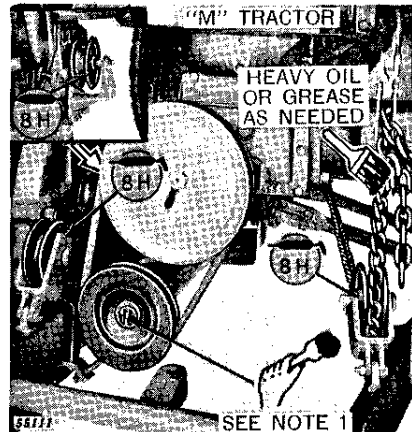
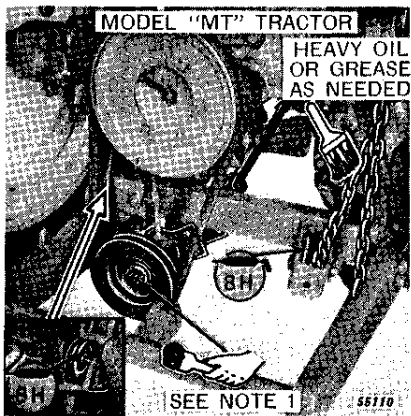
Use a good grade of gun grease.

CAUTION: Never Attempt to Lubricate the Mower While Tractor Engine Is Running.





NOTE 1: At the end of each season of operation, remove the drive housing assembly. Remove cotter pin, slotted nut and driven sheave from power shaft. Slide shaft forward until front bearing is accessible, then repack with grease. Push shaft back into position in drive housing and repack rear bearing. Reinstall driven sheave, slotted nut and cotter pin.



OPERATION

Keep your mower lubricated, the cutting parts sharp and in good condition, and lifting springs properly adjusted. These precautions will insure clean cutting, light draft, continuous operation, and low upkeep cost.

SAFETY FIRST. Never attempt to clean, lubricate, or adjust mower without first disengaging power take-off and shutting off tractor engine. A careful operator is the best insurance against an accident.

STARTING MOWER IN THE FIELD. Run mower slowly for awhile and observe knife, pitman connections, and other moving parts to see that they operate freely. Carefully raise and lower cutter bar several times with Touch-o-matic to see that it works properly. Check V-belt tension and sheave alignment.

OPERATING SPEED. Under most conditions, drive in second gear at full throttle. Avoid excessive speeds. Various mowing conditions require different mowing speeds. Operate at the travel speed that will meet crop and field conditions and provide the smoothest mowing action.

Always run tractor engine at full throttle. Running the engine slowly reduces the knife speed and may cause clogging. When necessary to slow down travel speed of tractor, shift to a lower gear, rather than retard throttle. By shifting to a lower gear, and continuing at full throttle, the knife will run at proper speed for best results.

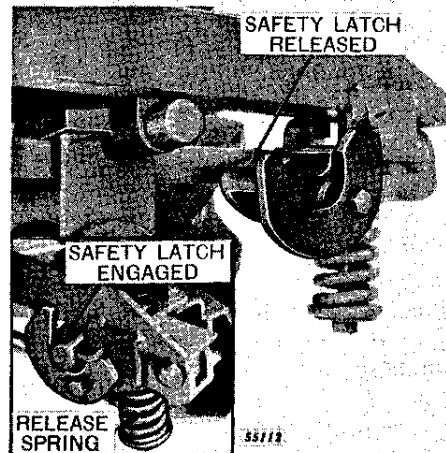
APPROXIMATE NUMBER OF ACRES CUT PER HOUR

Miles per Hour	1	1-1/2	1-3/4	2	2-1/4	2-1/3	2-1/2	2-3/4	3	3-1/4	3-1/2	3-3/4	4
5-Foot Cut	5/8	7/8	1	1-1/4	1-3/8	1-1/2	1-1/2	1-5/8	1-7/8	2	2-1/8	2-1/4	2-3/8
6-Foot Cut	3/4	1-1/8	1-1/4	1-1/2	1-5/8	1-3/4	1-7/8	2	2-1/8	2-3/8	2-1/2	2-3/4	3
7-Foot Cut	7/8	1-1/4	1-1/2	1-3/4	1-7/8	2	2-1/8	2-3/8	2-1/2	2-3/4	3	3-1/8	3-3/8

GUMMY TRASH ON CUTTER BAR. Use water to remove gummy trash that packs on wearing plates and guards (operate mower slowly and pour water on bar). Do not let trash harden.

SAFETY LATCH. Should the cutter bar strike an obstruction, the safety latch releases, allowing the cutter bar to swing back. Re-engage the latch by backing up the tractor until the mower returns to cutting position.

If the safety latch releases too easily, increase the spring tension slightly. Do not make the spring too tight or latch will not release when the cutter bar hits an obstruction.




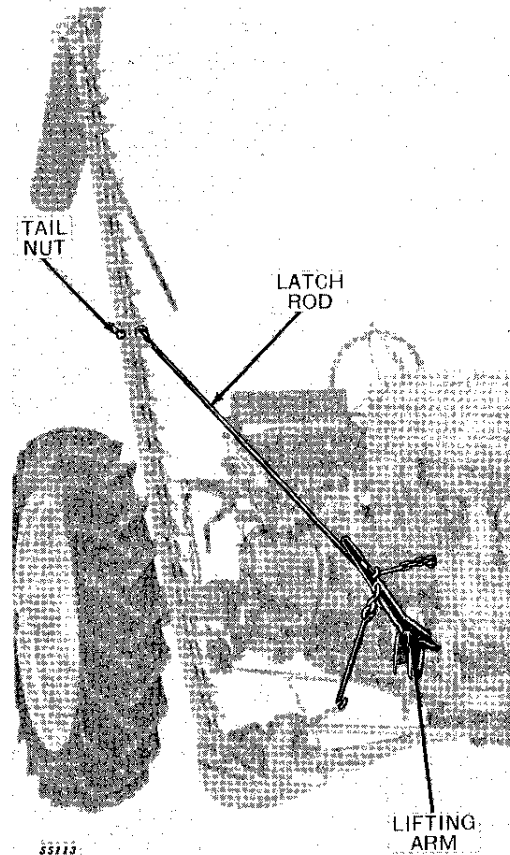
OPERATION

TRANSPORT- ING

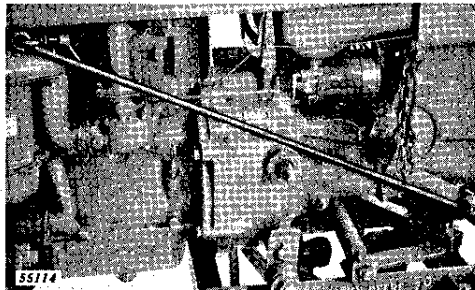
When moving from one field to another, or any considerable distance, the cutter bar should be placed in its transport position.

Hook the transport latch rod in the first hole of the lift arm. Raise cutter bar to its highest upright position. Fit other end of latch rod through hole in cutter bar and secure with tail nut.

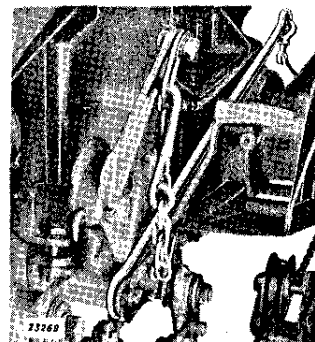
 **Safety First:** Be sure power take-off of tractor is disengaged. When raising cutter bar by hand, be sure to keep fingers away from cutting parts.



When not in use, the latch rod can be stored as shown below on the left on the "320," "420," "40" Series and "MT" Tractors, or as shown on the right on a Model "M" Tractor.



*Transport Latch Rod on Models
"320," "420," "40" and "MT" Tractors*



*Transport Latch Rod on
Model "M" Tractor*

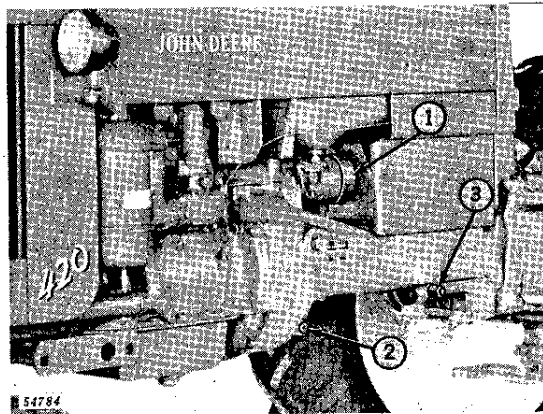
MOUNTING MOWER ON TRACTOR

PREPARING THE TRACTOR

1. Rotate starting motor dust shield so clamp will not interfere with mower mounting bracket.

2. Remove cap screws from tractor center frame, both sides.

3. Remove nuts from implement attaching bracket, both sides.



"320," "420," AND "40" STANDARD AND "420" AND "40" TRICYCLE TRACTORS ONLY

1. Remove upper link.

2. Turn out load control lock screw so load control yoke will not operate.

3. Remove power take-off shaft shield.

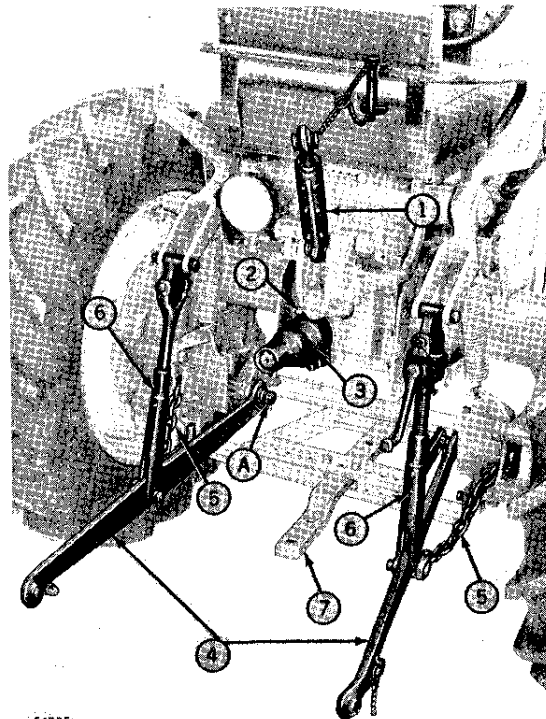
4. Remove the right- and left-hand load links.

NOTE: On Model "40" Standard Tractors, also remove the stud "A" for the left-hand load link.

5. Remove right-hand and left-hand sway stop chains.

6. Remove the right- and left-hand lift links.

7. Position and secure the swinging drawbar in center position.



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