

18 ONE-ROW PULL-TYPE CORN PICKER SERIAL NO. 18-301



JOHN DEERE

OPERATORS MANUAL 18 ONE-ROW PULL-TYPE CORN PICKER SERIAL NO. 18-301

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FOREWORD

The purpose of this manual is to give you useful information on how to operate your new John Deere 18 Corn Picker in the many field and crop conditions under which corn is grown.

A corn picker must be built to handle a wide range of conditions. Average conditions can be handled by the standard equipment with which the machine is shipped. However, unusual conditions may require some special equipment. Your new machine will do a type of work directly proportional to the amount of care you use in operating it.

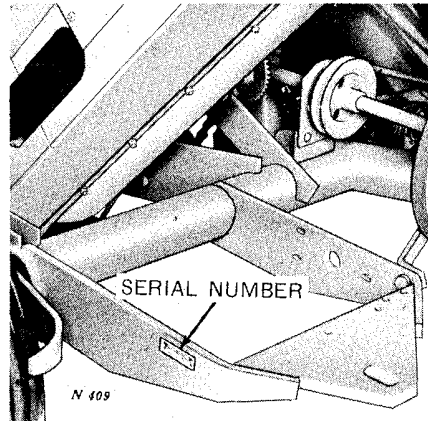
Field conditions vary from year to year, from day to day, and even from hour to hour. Different varieties of corn present widely different picking problems. A careful study of adjustments on your picker and what it will accomplish under different conditions will allow you to reap the many benefits and economies that a picker can provide.

If you find you need information not covered in this manual, see your John Deere dealer. He has the latest information on how to get the best service from your picker and can give you prompt "know-how" service in the field or in his shop.

When in need of parts, go to your John Deere dealer who carries genuine John Deere parts for your corn picker. Be sure to give him the serial number of your machine and the year purchased. This information should be recorded in the space provided on this page as soon as you have received your picker.

Serial Number.....
Date Purchased.....

You will find the Serial Number Plate on the left-hand outer wagon drawbar frame as illustrated at the right.



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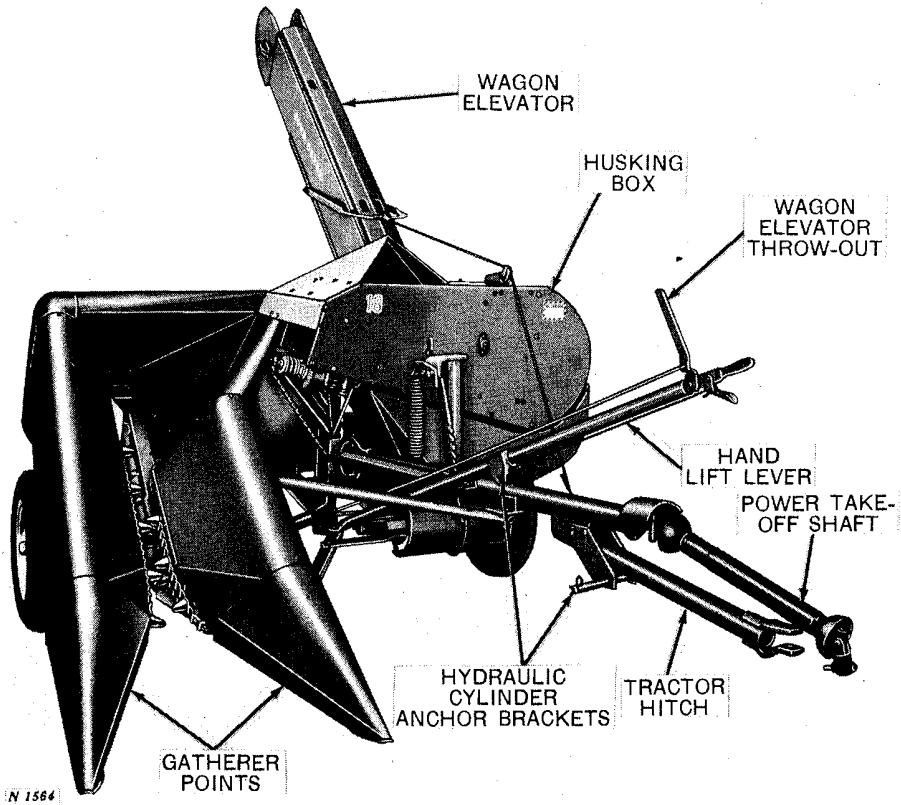
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John Deere 18 Corn Picker

SPECIFICATIONS

No. of rows.....	1
Right- or left-hand machine.....	Right-hand
Lift mechanism.....	Hand lift or hydraulic remote cylinder
Distance from tractor drawbar hitch hole to corn row.....	60 inches
Gatherer points hinged or rigid.....	Hinged
Gatherer points hinged above or below gatherer chain.....	Above
Gatherer points, height of lift at hinge point (adjustable).....	0 to 24 inches
No. of gatherer chains.....	3
Type of gatherer chains.....	Steel link detachable
Minimum clearance between gatherer chains and ground.....	0 inches and up
Gatherer chains ahead of snapping roll entry.....	Yes
Length of snapping rolls (including points).....	41 inches
Snapping roll adjustment.....	Crank
Type of first elevator conveyor.....	Auger
No. of husking rolls.....	6
Diameter of husking rolls.....	3 inches
Length of husking rolls.....	27-1/2 inches
Type of husking rolls:	
Rubber roll.....	Spiral grooved and notched
Mating rubber roll.....	Smooth tire carcass type
Cleaning fan.....	Available as special equipment
Depth ear corn elevator.....	6-1/2 inches
Width ear corn elevator.....	9 inches
Wagon elevator location.....	In line with tractor
Shelled corn saver.....	Incorporated with husk auger and housing
Width over-all of picker.....	7 feet, 9 inches
Length from tractor hitch point to wagon hitch point.....	10 feet, 7-1/2 inches
Length including wagon elevator.....	18 feet
*Height less wagon elevator.....	5 feet, 6 inches
*Height to top of wagon elevator.....	9 feet, 9 inches
Tractor power requirement.....	John Deere "430," or larger or equivalent (tractor can be equipped with 540 or 1000 rpm PTO)

*Adjustable wheel brackets in the 4-inch raised position.

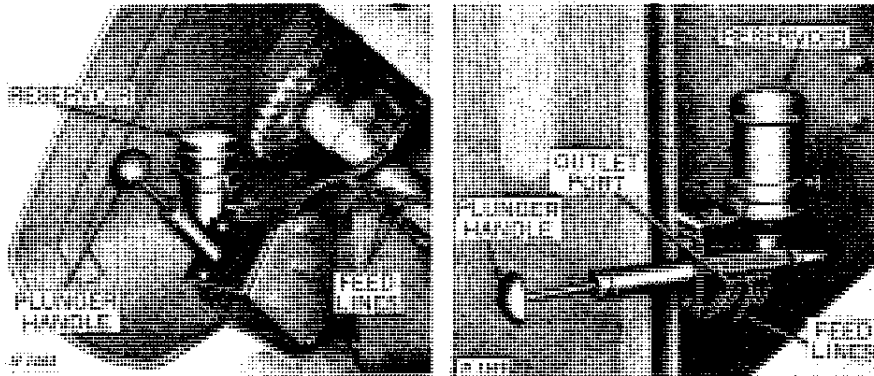
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LUBRICATION

The economical and efficient operation of any machine depends on regular and proper lubrication of all moving parts with a quality lubricant. Neglected lubrication leads to reduced efficiency, heavy draft, wear, breakdown, and costly replacement of parts.

MULTI-LUBER QUIK-LUBE SYSTEM

When the picker is equipped with the Quik-Lube system, follow these instructions.



Right-Hand Pump

Left-Hand Pump

Both the right and left Multi-Luber pumps should be operated on an average of two strokes every hour of operation. This can be done at any interval up to four hours (eight strokes every four hours).

Depress each pump handle manually through its full stroke to discharge lubricant from all outlet ports. The measuring chamber in each pump is filled as the plunger and handle return to normal position. Check the reservoirs periodically, add lubricant when required.

Use genuine John Deere Quik-Lube lubricant in the Quik-Lube system. It handles like an oil, but, when in service, unique thickening properties cause it to congeal into a soft, grease-like lubricant. This lubricant is available from your John Deere dealer as Part No. AN11100N.








This Multi-Luber Quik-Lube system takes care of all lubrication requirements with the exception of the 50-hour grease fittings in the husk auger miter gear and the wagon elevator slip clutch (page 9), and the 250-hour or yearly lubrication points (page 10). These 50- and 250-hour grease fittings are lubricated with a grease gun.

See pages 47 and 48 for information on servicing the Multi-Luber Quik-Lube system.

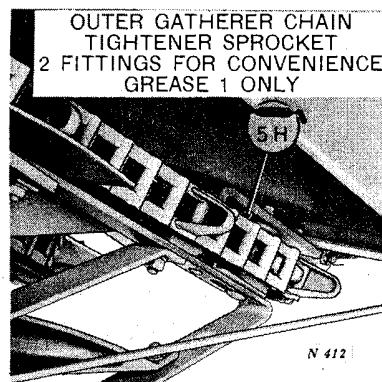
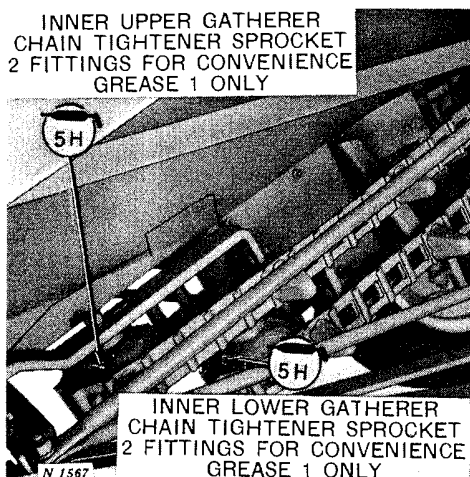
GREASE GUN LUBRICATION

The lubrication points illustrated on the following pages have been grouped by their lubrication interval. See that only clean lubricants are used. Wipe dirt from the grease gun nozzle and grease fittings before using. Make certain all fittings are tightly in place. Replace any that have been lost. Avoid excessive lubrication. Use SAE multipurpose grease.

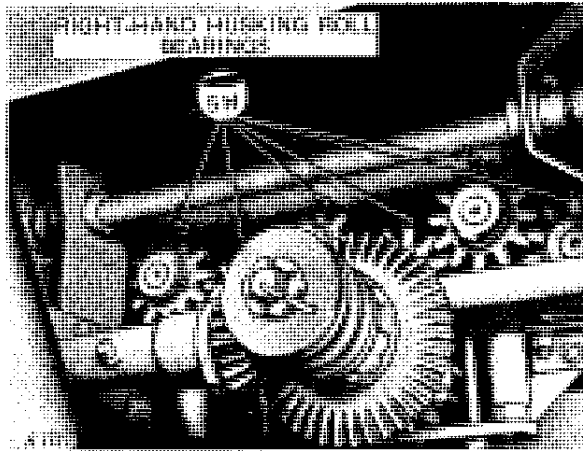
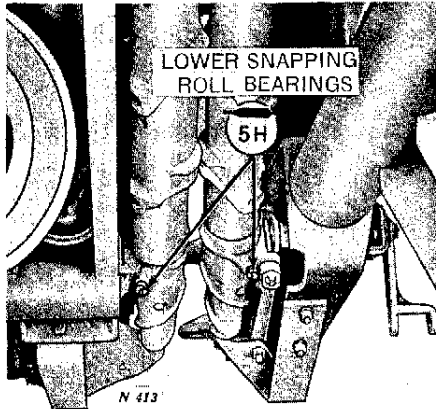
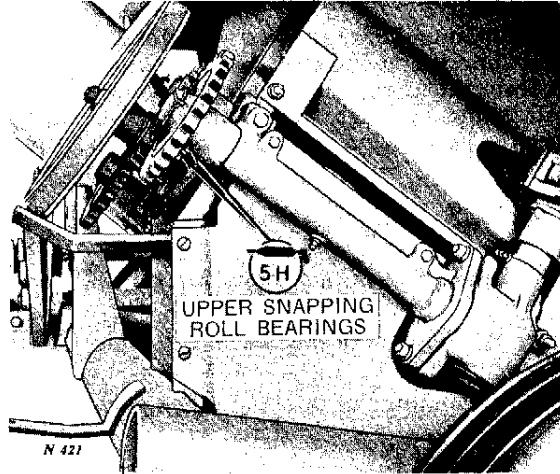
SYMBOLS FOR LUBRICATION CHARTS

-  Grease every 5 hours of operation. See pages 5 and 6.
-  Grease every 10 hours of operation. See page 7.
-  Grease every 50 hours of operation. See pages 8 and 9.
-  Oil every 50 hours of operation. See pages 8 and 9.
-  Grease every 250 hours of operation or the beginning of the season. See page 10.
-  Pack every 250 hours of operation or the beginning of the season. See page 10.
-  Sealed bearing—requires no lubrication.

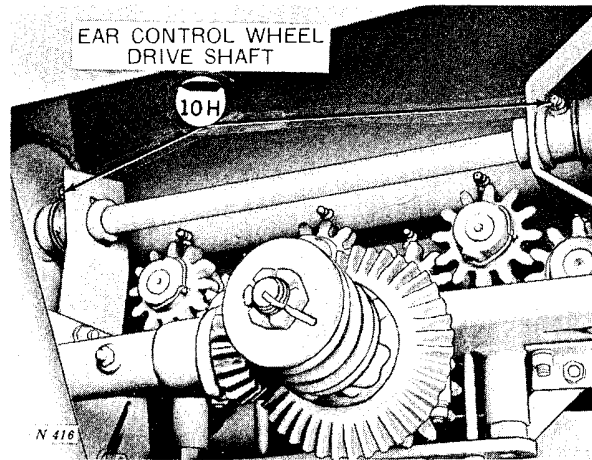
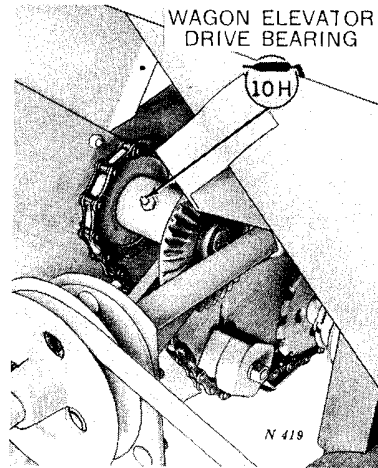
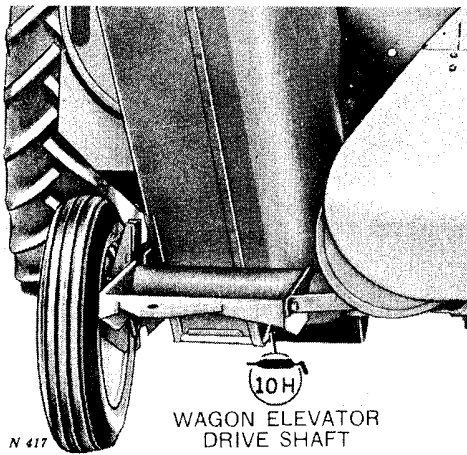
EVERY 5 HOURS OF OPERATION



EVERY 5 HOURS OF OPERATION—Continued

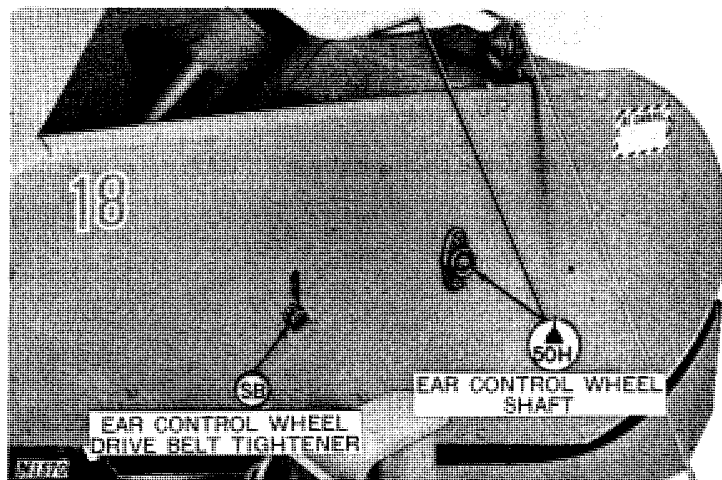
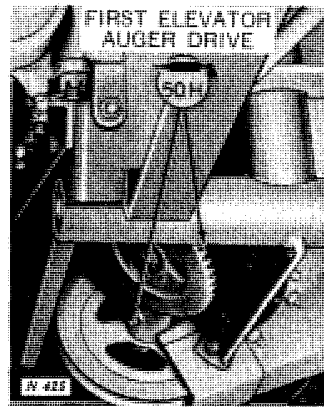
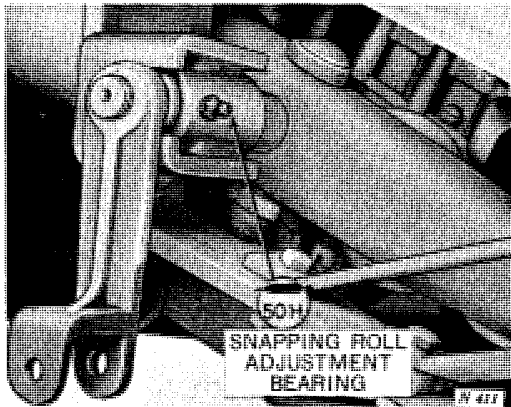
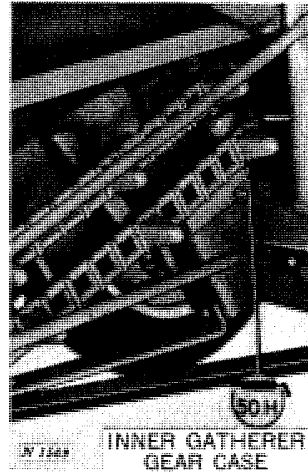
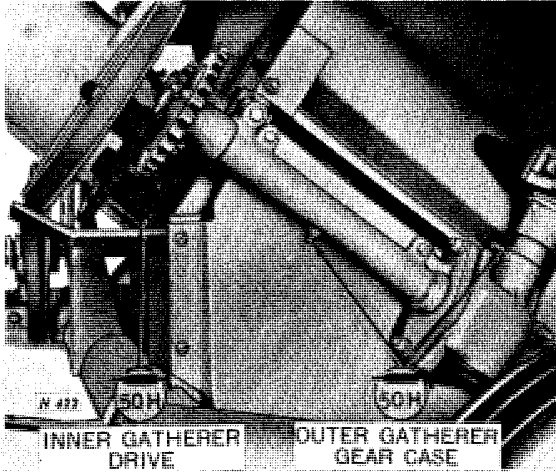


EVERY 10 HOURS OF OPERATION

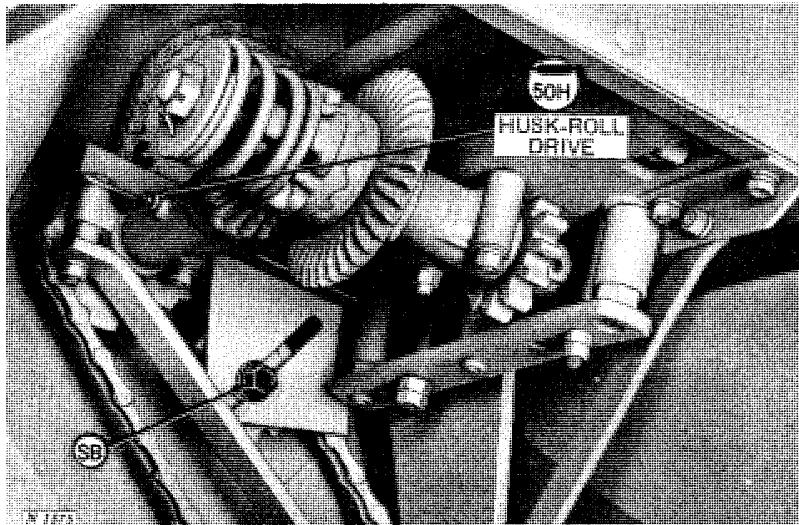
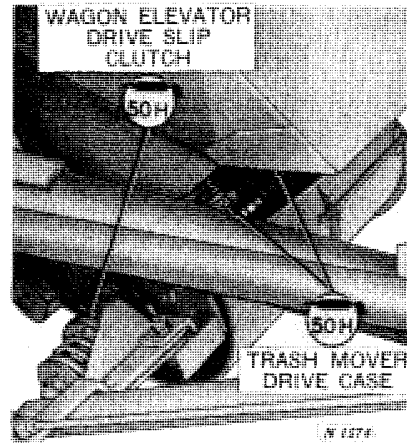
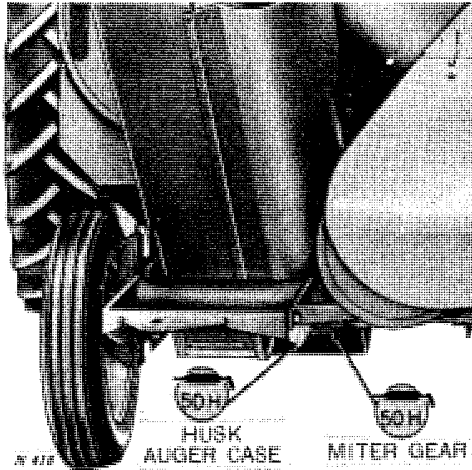


Lubricate all drive chains daily with SAE 30 engine oil.

EVERY 50 HOURS OF OPERATION

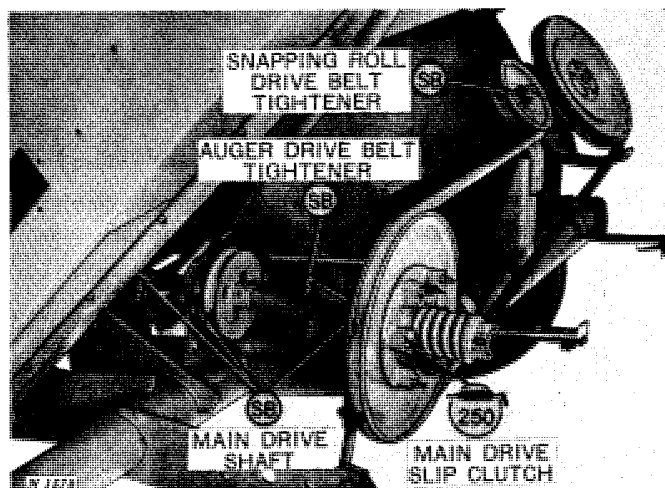
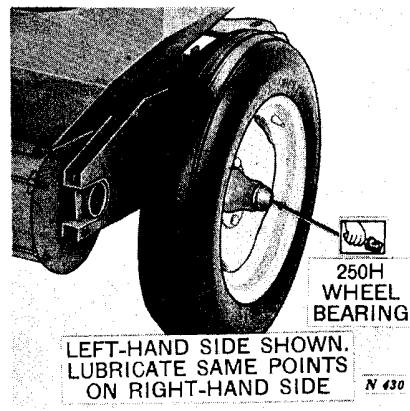
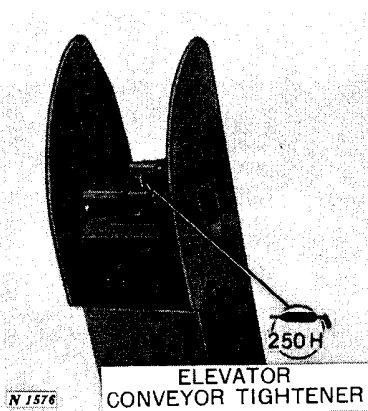
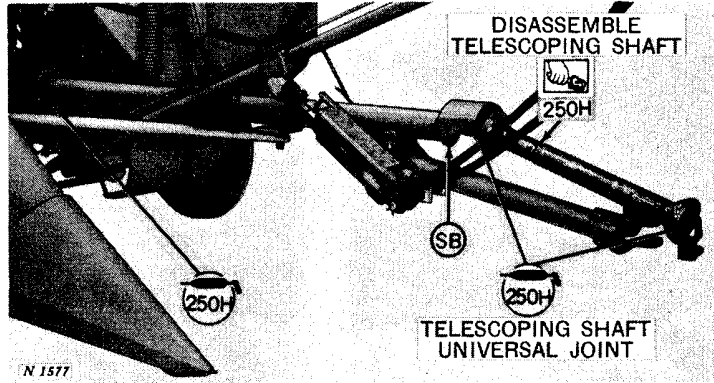


EVERY 50 HOURS OF OPERATION—Continued



Every 50 hours of operation or once a week, lubricate clevises, linkages, and other pivot and sliding parts with SAE 30 engine oil.

EVERY 250 HOURS OF OPERATION



OPERATION

GENERAL INSTRUCTIONS

Successful operation, the maximum saving of corn, quality of work, and the length of life of your John Deere 18 Corn Picker depend very largely upon thorough lubrication, proper adjustment of all chains, V-belts, slip clutches, and upon making the best use of the simple adjustments that are provided to meet varying crop conditions.

Pick Early. One of the main advantages of owning a picker is its capacity for work enabling one to finish picking while conditions are most favorable. The John Deere 18 will handle the job under any conditions as well or better than other pickers. However, we recommend picking early and avoiding the troubles and disagreeable features that accompany frozen ground, extremely cold weather, and dried-out frozen, and rotten stalks.

In average conditions, the picker will do its best work when traveling at a low rate of speed. Avoid excessive travel and powershaft speeds. The tractor should operate at approximately 540 rpm or 1000 rpm under load.

The machine should travel in the same direction that the field was last cultivated.

Listen for slipping clutches and watch for deep furrows, rocks, or other obstructions, with which gatherer points may strike.

Drive tractor carefully so the gatherer points will follow the row. When crossing end of the field, raise the gatherer points by tilting machine.

If, for some reason, the picker becomes clogged, stop the tractor engine and then remove the obstacle from the machine. **Never use a corn stalk or stick to clean the snapping rolls while the power take-off is engaged. Keep hands and feet away from snapping rolls when the machine is running.**

If trouble is experienced, determine where it exists before making any adjustment. Make no adjustments until all paint is worn off the slip clutches and working parts are smooth.

Before putting the picker in the field for the first time, lubricate thoroughly and operate slowly for some time, making sure that all parts are working freely. If there is no binding or heating, run at full speed for a few minutes. Next, go over the entire machine to be sure that all bolts are



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tight and that lubricant is reaching all bearings. Be sure to check the tension on all chains and V-belts.

IMPORTANT: Keep all nuts, pins, and keys tight. Keep cotter pins spread. Carry a wrench when lubricating the machine so that loose nuts can be tightened as they are discovered.



Never adjust a picker while it is in motion. Be sure to stop the tractor engine. Too much care cannot be taken to keep hands and clothing away from all moving parts.

Take pride in doing the best work possible under all conditions. In order to achieve this, follow the rows carefully; set gatherers and tilt the machine to pick the down and leaning stalks; set snapping rolls so that corn is not mutilated or shelled excessively; and to meet damp or dry conditions of corn. Handy adjustments are provided to meet these conditions. Above all, be a safe operator and follow all the safety suggestions mentioned in this manual.



**A Careful Operator
IS THE BEST INSURANCE
AGAINST AN ACCIDENT**

—National Safety Council

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