

10 Side-Mounted Mower

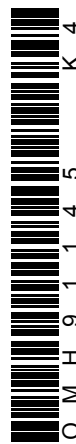


OPERATORS MANUAL 10 Side-Mounted Mower

OMH91145 K4 English

John Deere Ottumwa Works
OMH91145 K4

LITHO IN U.S.A. (REVISED)
ENGLISH



To the purchaser

This manual contains the necessary information to operate, lubricate, adjust, service, assemble and install your new John Deere mower.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation and service of the mower. He has trained mechanics who are kept informed on the best methods of John Deere mower servicing and can give you prompt know-how service in the field or in his shop.

Keep your mower a John Deere mower

Should your mower require replacement parts, go to your John Deere dealer where you will receive genuine John Deere parts—accept no substitutes. John Deere parts fit properly and insure satisfactory service because they are made from the original patterns and from the same material as used in new machines.

Location reference

"Right-hand" and "left-hand" sides are determined by facing in the direction the mower will travel when in use.

"Clockwise" refers to parts turning to the right like the hands of a clock.

"Counterclockwise" refers to parts turning to the left.

Serial number

When ordering parts, refer to the model and serial number. By doing so, you will assist your John Deere dealer in giving you prompt, efficient service.

The serial number plate is located on the front of the cutter bar yoke.

Record the serial number and purchase date in the spaces provided below.

Serial no. _____

Date purchased _____

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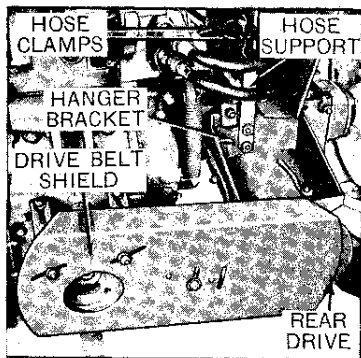
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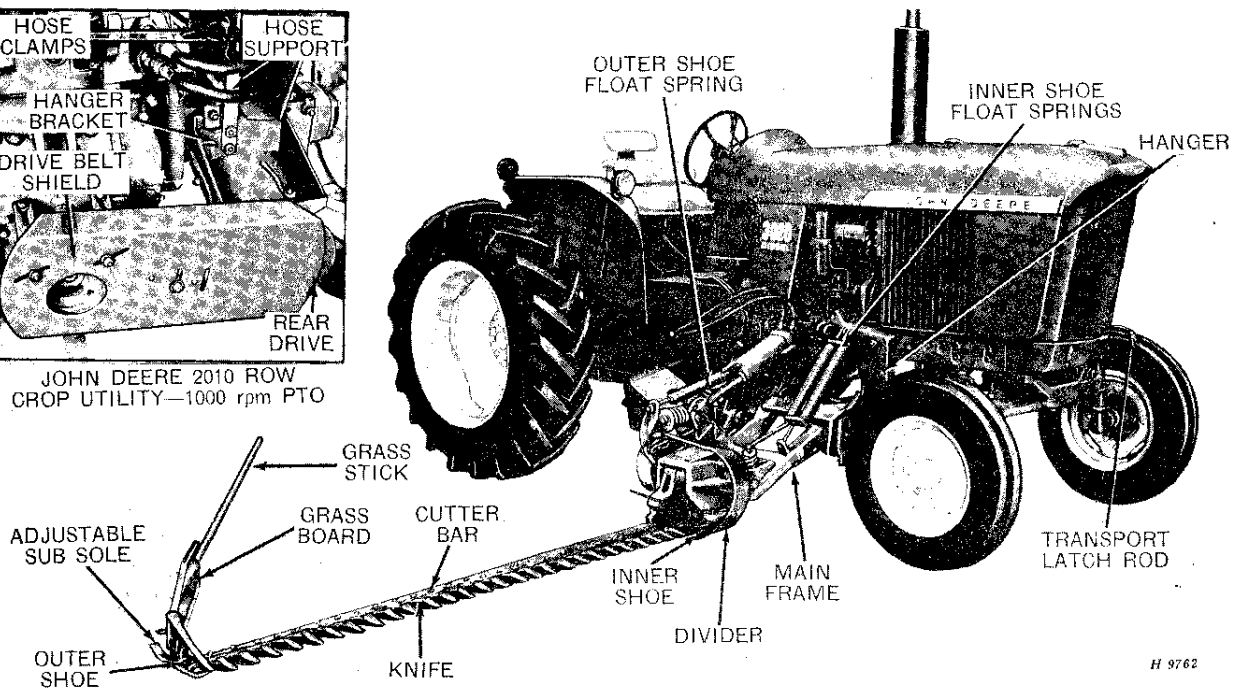
specifications

Length of cutter bar	5-, 6-, 7-, or 9-foot	Crankshaft speed	800 rpm
Type of power	Power take-off on tractor	Connecting rod bearings	Straight roller
Type of drive	V-belt or chain	Knife	3-1/4-inch stroke 1000 strokes per minute
Tractor hook-up	Mounted on tractor	Approximate shipping weight with 7-foot cutter bar	650 pounds
Rear drive shaft bearings	Tapered roller	For tractors	Listed on pages 34-77
Front drive shaft bearings	Tapered roller		
Crankshaft main bearings	Tapered roller		

(Specifications and design subject to change without notice.)



JOHN DEERE 2010 ROW
CROP UTILITY—1000 rpm PTO



John Deere 10 Side-Mounted Mower Attached to a John Deere 3020
Row-Crop Utility Tractor

H 9762




operation

On the following pages, you will find information on how to operate your John Deere Mower. Read and follow these instructions carefully for dependable, economical service.

Preoperation inspection

Do not start tractor until mower has been carefully checked for correct assembly and installation. See that all nuts are tight and cotter pins spread. Be certain all moving parts work freely and are properly lubricated. Check to see that the powershaft telescopes freely.

 **CAUTION: Protect against the risk of personal injury and machine damage by operating implement only on rpm PTO for which it is designed or converted. A 540 rpm implement should be operated only on a 540 rpm PTO. A 1000 rpm implement should be operated only on a 1000 rpm PTO.**

Start tractor engine and while idling, slowly engage PTO. Let mower run slowly for a while and observe knife and other moving parts to see that they operate freely and normally. Check tractor levers and controls to see that they operate the mower properly.

After mower has been in full speed operation for one hour, disengage the PTO and shut off tractor engine. Check mower to see that all nuts and bolts are tight.

Field operation

Operating speed

Under most conditions, the tractor can be driven at 4 to 5 miles per hour without causing undue wear on mower. Avoid excessive speeds. Reasonable speeds result in more accomplished by the end of the day.

APPROXIMATE NUMBER OF ACRES CUT PER HOUR

Miles per hour	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	4¾	5
5-Foot Cut	1-1/4	1-3/8	1-1/2	1-5/8	1-7/8	2	2-1/8	2-1/4	2-1/2	2-5/8	2-3/4	2-7/8	3
6-Foot Cut	1-1/2	1-5/8	1-7/8	2	2-1/8	2-3/8	2-1/2	2-3/4	3	3-1/8	3-1/4	3-1/2	3-3/4
7-Foot Cut	1-3/4	1-7/8	2-1/8	2-3/8	2-1/2	2-3/4	3	3-1/8	3-1/2	3-5/8	3-3/4	4	4-1/4
9-Foot Cut	2-1/4	2-3/8	2-3/4	3	3-1/4	3-1/2	3-7/8	4-1/8	4-3/8	4-5/8	4-7/8	5-1/8	5-1/2

Various mowing conditions require different mowing speeds. Best results will be obtained by running the tractor at the travel speed that will meet crop and field conditions, or the speed where the smoothest mowing action results.

Operate tractor engine to obtain the SAE rated PTO speeds. Running the engine at slow speed reduces the knife speed and may cause the knife to clog where cutting is heavy. Where difficult conditions make it necessary to slow down the travel speed of tractor, shift to a lower gear rather than retard the engine speed. By shifting to a lower gear, the engine will maintain its rated speed, which will keep the knife running at the proper speed for best results.

Do not engage PTO with engine running at high speed. To do so may cause undue wear or possible breakage.

Mower crankshaft speed should never exceed 825 rpm. An average of 800 rpm (1600 strokes per minute) is ideal. The knife has a 3-1/4-inch stroke.

Turning corners

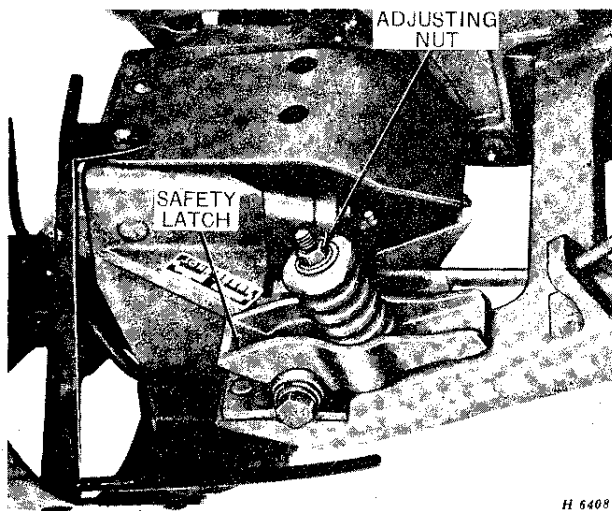
This mower will cut neat, square corners. It is seldom necessary to raise the cutter bar at corners. Turn quickly when near the end of cut, using brake to pivot right-hand wheel of tractor.

When turning corners to the left, run tractor in low gear. The cutter bar swings around faster when turning in this direction and this, of course, increases the possibility of striking an unnoticed fence post or some other obstacle.

Gummy trash on cutter bar

To remove gummy trash that packs on wearing plates and guards, operate slowly and pour water on bar. Do not allow trash to harden.

Safety spring release



H 6408

A safety spring release prevents damage to the mower by allowing the cutter bar to swing back when an obstruction is encountered during operation.

After the safety latch releases and the cutter bar swings back, it is not necessary to leave the tractor seat. Just cramp the front wheels to the left and back up the tractor until the mower is in normal position and the safety latch catches.

Spring tension may be adjusted by means of the adjusting nut. Do not tighten spring more than necessary for satisfactory operation.

Transporting

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

Raise cutter bar to its highest position. Hook transport latch rod into eyebolt on main frame. Raise cutter bar to an upright position and fit other end of transport latch rod through hole in cutter bar. Secure with tail nut.

When equipment is transported on road or highway, use accessory lights and devices for adequate warning (day and night) to other vehicles. In this regard check local governmental regulations.

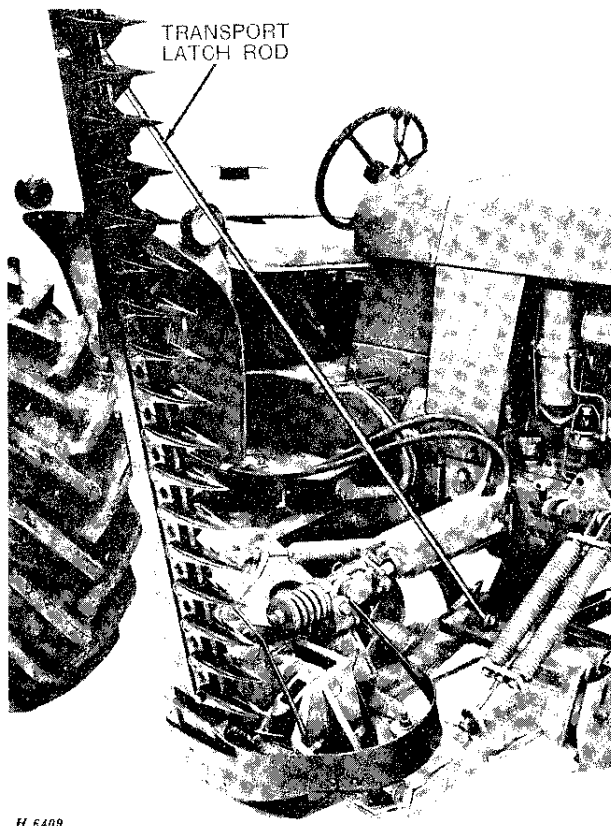
When not in use, transport latch rod fits into clips on left-hand side of tractor frame.



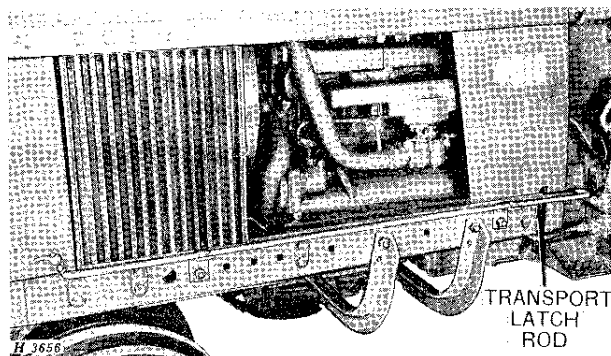
Be sure the power to cutter bar is disengaged and tractor engine is shut off before handling cutter bar.



When raising cutter bar by hand, be certain to keep fingers away from cutting parts.



H 6409



H 3656

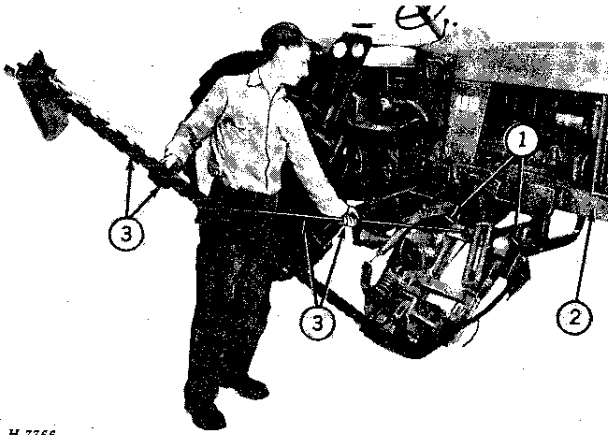
Storing for the winter

When storing mower for the winter, clean off the dirt, tighten loose bolts, spread cotter pins, and grease the knife and wearing parts on cutter bar.

Order the new parts that will be needed before the mower is used again.

Attaching mower to tractor

NOTE: If hanger assembly and drive parts have been removed from tractor, replace as shown on pages 20 through 79. (See Index on page 20.)



H 7766

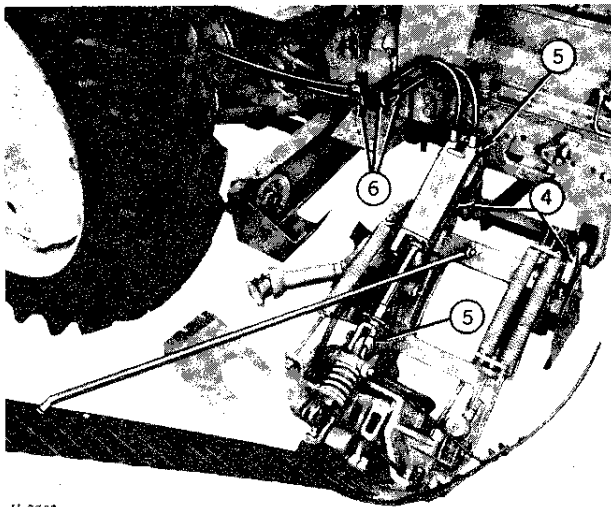
1. Open the latches in mower mounting hooks by pulling up on handles until they lock open.

2. Position the tractor so the two balls in the hanger are adjacent to, and in line with, the mounting hooks.

3. Take hold of the transport latch rod with the left-hand and take hold of the back side of the cutter bar with the right-hand; then pivot the mower up until the weight of the mower rests on the balls in the hanger.



CAUTION: Keep hands and fingers away from front of cutter bar.



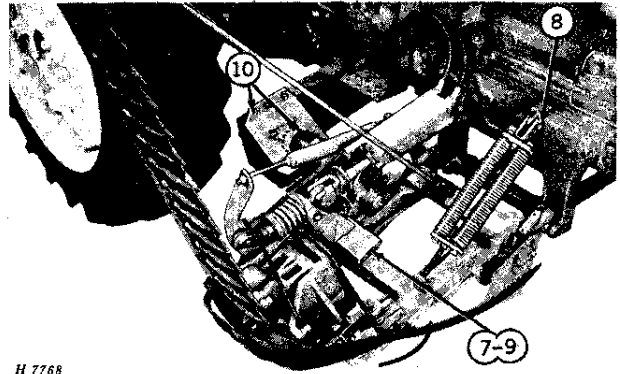
H 7767

4. Push down on latch handles to lock mower in place.

5. Install remote hydraulic cylinder with drilled pins and spring locking pins.

NOTE: Adjust remote hydraulic cylinder for full stroke (see your tractor operator's manual). Be sure oil lines are connected to the tractor so cutter bar is raised when control lever is activated.

6. Loosen wing nut on oil line clamp and insert oil lines in recess in clamp. Tighten wing nut.



H 7768

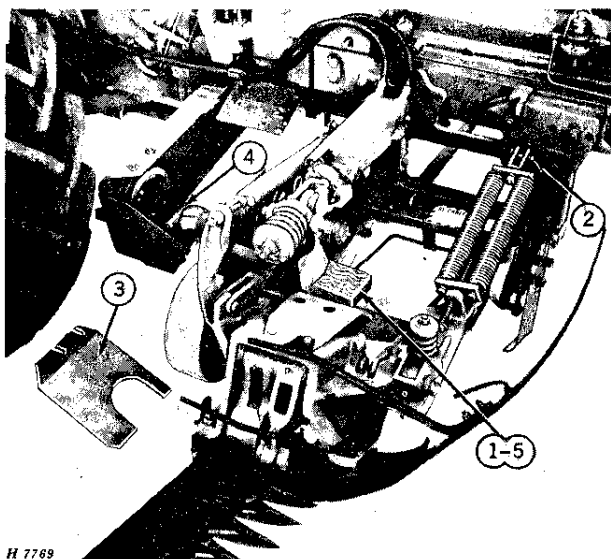
7. Start tractor engine and lower the cutter bar far enough to place a one-inch block of wood between cutter bar lift arm and main frame.

8. Raise cutter bar slowly until lift arm contacts block of wood. Raise cutter bar farther and shut off tractor engine. Attach inner shoe float spring clevis to hanger with drilled pin and spring locking pin.

9. Start tractor engine. Lower cutter bar and remove block of wood. Shut off tractor engine.

10. (*Mowers using front PTO only*) Remove universal joint shield. Compress lock pin and connect universal joint to splined shaft on rear drive assembly. Replace shield, being certain the flat washers lay on top of slots in shield.

Removing mower from tractor



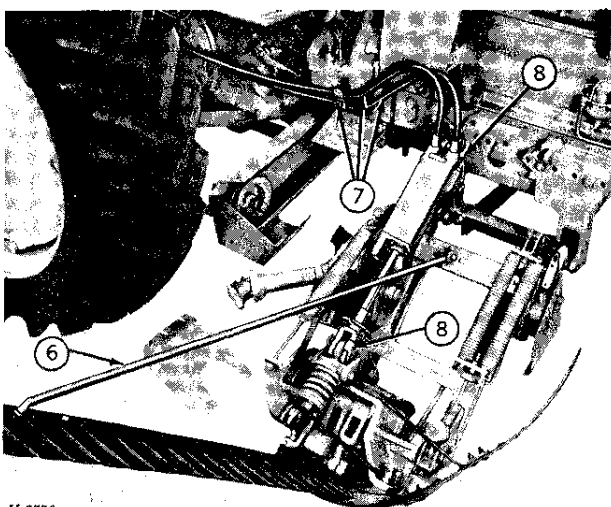
H 7769

1. Place a one-inch block of wood between cutter bar lift arm and main frame.

2. Start tractor engine and raise cutter bar slowly until lift arm contacts block of wood. Raise cutter bar farther until inner shoe float spring adjusting bolt protrudes out of adjusting bracket (all tension removed from springs). Shut off tractor engine. Disconnect float spring from hanger. Replace drilled pin and spring locking pin in clevis.

3. (*Mowers using front PTO only*) Remove universal joint shield. After mower is removed, replace shield for safe keeping.

4. Disconnect universal joint.



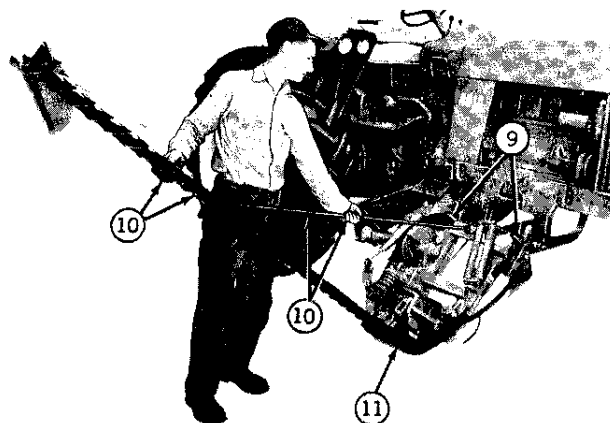
H 7770

5. Start tractor engine. Lower cutter bar. Stop tractor engine and remove block of wood.

6. Raise cutter bar by hand and attach transport latch rod.

7. Loosen wing nut on oil line clamp and remove oil lines.

8. Remove remote hydraulic cylinder from mower.



H 7771

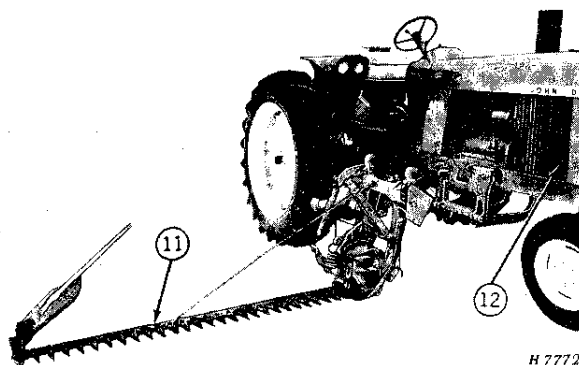
9. Open the latches in mower mounting hooks by pulling up on handles until they lock open.

10. Take hold of the transport latch rod with the left-hand and take hold of the back side of the cutter bar with the right-hand; then rock the mower to free mounting hooks from hanger.



CAUTION: Keep hands and fingers away from front of cutter bar.

11. Lower the cutter bar to ground.



H 7772

12. Back tractor away from mower.



safety suggestions



36866

The safety of the operator was one of the prime considerations of John Deere engineers when this mower was designed. Shielding, simple adjustments, and other safety features were built into the mower wherever possible.

However, investigation of thousands of accidents shows that careless use of machinery causes nearly 1/3 of all accidents.

Study these suggestions carefully and insist that they be followed by those working with you and for you.

All machinery should be operated only by responsible persons who have been delegated to do so.

Never clean, oil or adjust the mower when it is running.

Clothing worn by operator should be fairly tight and belted. Loose jackets or sleeves should never be worn because of the danger of getting into moving parts.

Be sure powershaft shield and all drive belt shields are in place and in good condition before starting.

Make certain everyone is clear of the mower and tractor before starting so no one can be struck by moving parts.

When transporting the mower on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Always disengage power to cutter bar and shut off the tractor engine before cleaning a clogged cutter bar.

CAUTION: Protect against the risk of personal injury and machine damage by operating implement only on rpm PTO speed for which it is designed or converted. Operate a 540 rpm implement only on a 540 rpm PTO. Operate a 1000 rpm implement only on a 1000 rpm PTO.

IMPORTANT: Inexperience and lack of "know-how" in repair and maintenance can result in personal injury as well as equipment damage. Know what to do and how to do it before attempting a job.

CAUTION: Always disengage PTO and shut off tractor engine before dismounting from tractor.

IMPORTANT

Make this manual your guide and adviser and do what it recommends, regardless of what may have been your practice with other makes of mowers, or the suggestions that may be made to you by well-meaning friends or neighbors.

When using this mower with other equipment, special servicing of the equipment may be required. This information will be given to you in the instruction book accompanying the other equipment.



lubrication

All lubrication points will be found in the following lubrication chart.



CAUTION: Disengage PTO and shut off tractor engine before lubricating the mower.

Bearings

Lubricate all grease fittings thoroughly with SAE multipurpose grease until grease oozes out of bearing. This assures that the bearing is full and also flushes out dirt that may have accumulated in the bearing. However, avoid excessive lubrication. Excessive lubricant that has dropped onto belts should be wiped off immediately to avoid belt slippage.

Lubrication of cutter bar and knife

Lubricate cutting parts thoroughly with SAE

30 oil except when working in dry, dusty, and sandy soil condition; then do not lubricate at all.

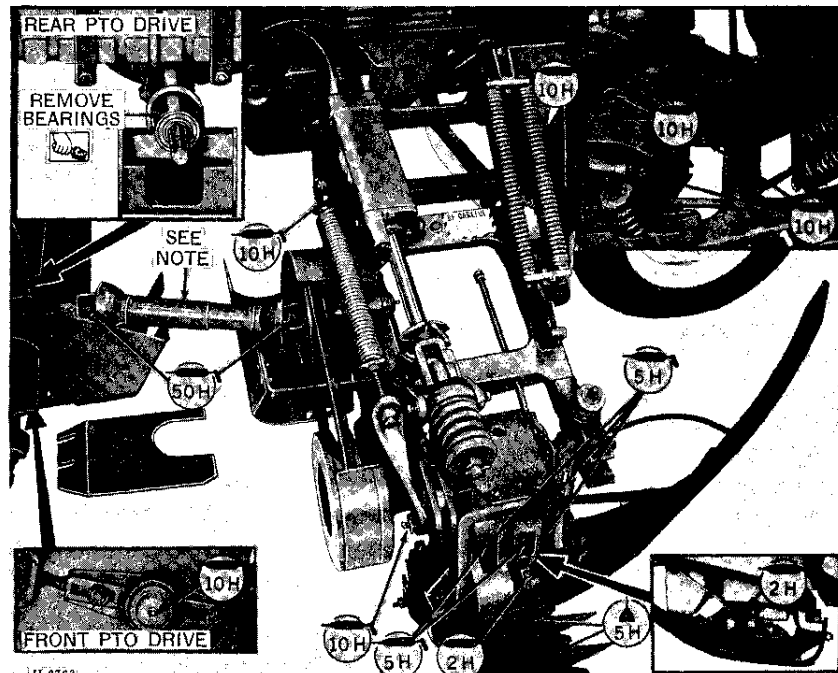
Lubrication of linkages

When lubricating the mower, make a practice of putting a few drops of SAE 30 oil on all clevises, linkages, and other moving parts. This will make them work easier and prolong their life.

Lubrication of drive chain

(For mowers using 540 rpm front PTO only)

For optimum chain life, lubricate drive chain regularly with light machine oil. A paint brush is a good instrument for applying oil.



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SYMBOLS



Grease Every 2 Hours of Operation.



Grease Every 10 Hours of Operation



Oil Every 5 Hours of Operation with SAE 30 Oil.



Grease Every 50 Hours of Operation



Grease Every 5 Hours of Operation



Hand Pack Every 250 Hours of Operation with SAE Multipurpose Grease.

NOTE: Every 50 Hours of Operation, Remove Rear Section of Powershaft and Apply SAE Multipurpose Grease to Inside of Square Tube in Front Section.

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