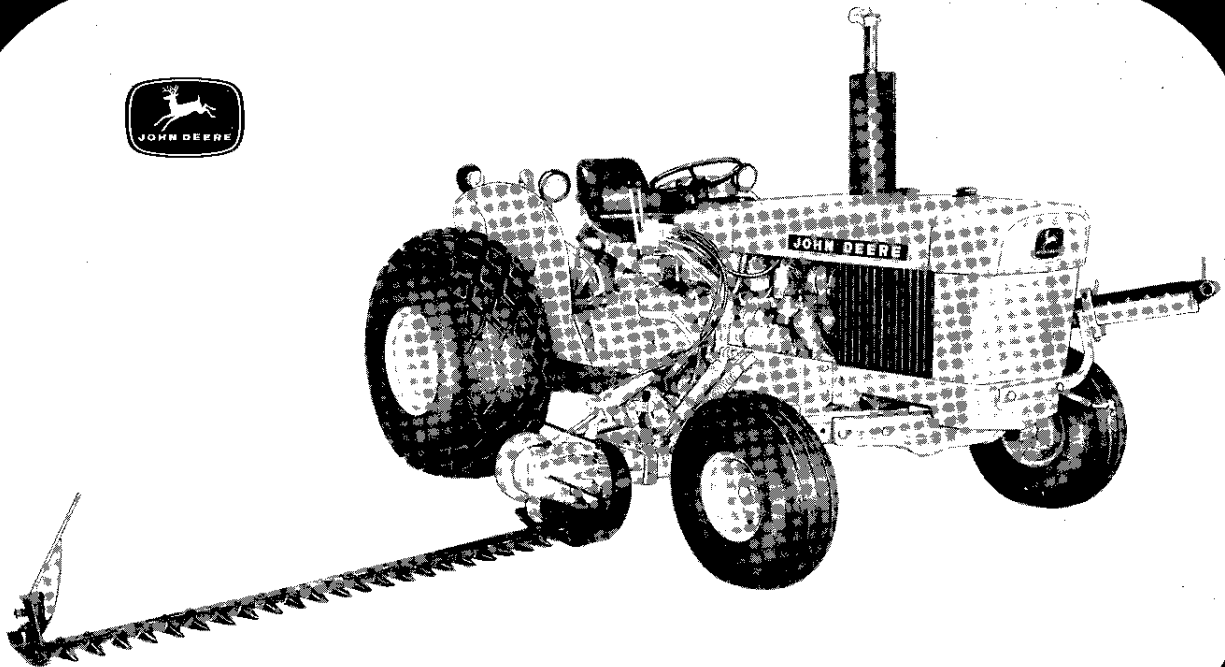


OPERATOR'S MANUAL
OM-H62805

JOHN DEERE 3700 MOWER



TO THE PURCHASER

This manual contains the necessary information to operate, lubricate, adjust, and service the John Deere mower. It also contains a complete illustrated parts list.

If you should find that you require information not covered in this manual, consult your John Deere industrial dealer. He will be glad to answer any questions 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.

Keep This Mower A John Deere Mower

Should this mower require replacement parts, go to your John Deere industrial 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 industrial dealer in giving you prompt, efficient service.

The serial number plate is located on the outside of the drive head yoke.

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

Serial No. _____

Date Purchased _____

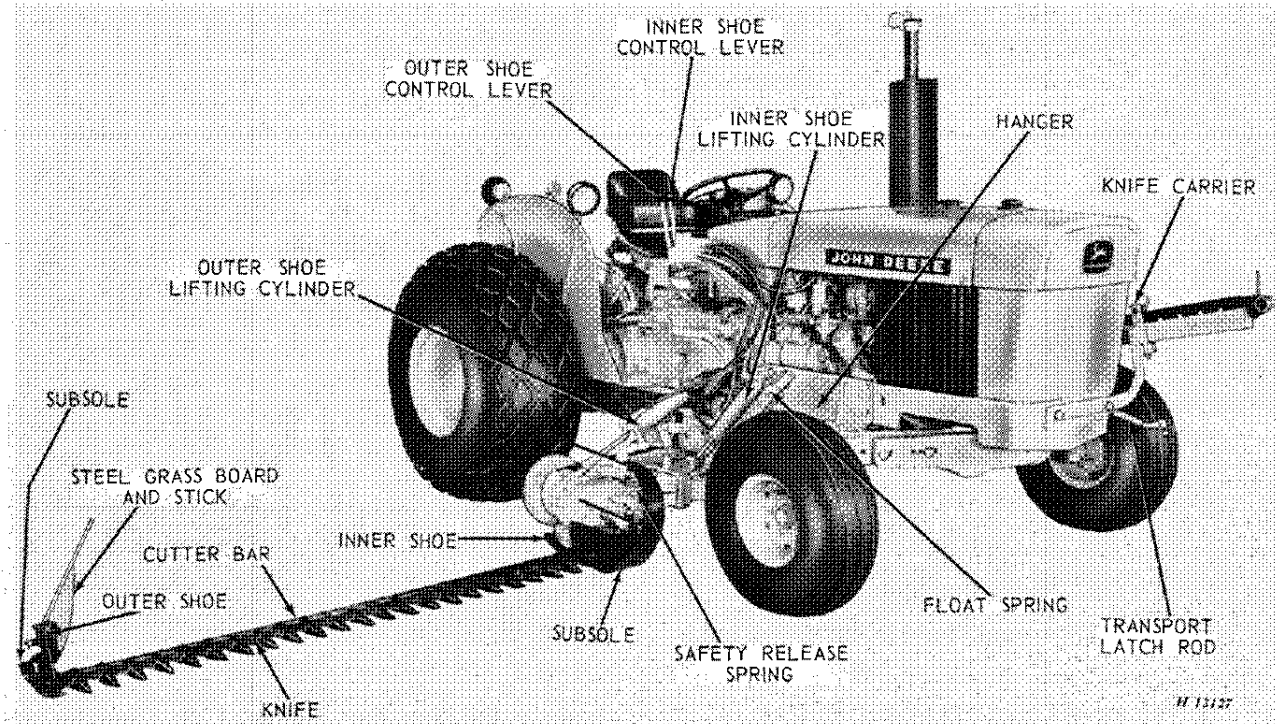
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Operator's Manual Price \$1.65



SPECIFICATIONS



John Deere 3700 Mower on a JD300 Turf Tractor

CUTTER BAR

Length of cut 5 or 6-foot
 Type of knife sections Heavy-duty
 Speed of knife . . . 1800 strokes per minute
 Stroke of knife 3 in.
 Tilt 10 degrees up; 10 degrees down
 Breakaway 60 degrees
 Type of lift Two hydraulic cylinders

CUTTING RANGE

Inner shoe at ground level 90 degrees Up Angle
 45 degrees Down Angle

CUTTER BAR DRIVE . . Enclosed crankshaft attached to yoke creating an oscillating motion

CRANKSHAFT SPEED 900 rpm

DRIVE HEAD BEARINGS 3 needle - 4 tapered roller

CRANKSHAFT DRIVE. Two stage V-belt drive; single belt from countershaft - matched pair of belts from tractor PTO to countershaft

COUNTERSHAFT BEARINGS . . . 2-Sealed ball
TRACTOR HOOK-UP . . Mounts on JD300 Turf Tractor

HYDRAULIC SYSTEM:

Valve Two spool valve for lifting cylinders

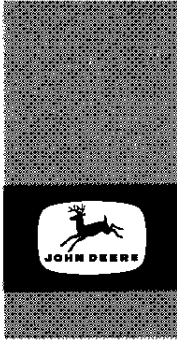
CYLINDERS:

Inner Shoe One 2 x 6-1/2-Inch Single-Acting
 Outer Shoe One 2 x 6-1/2-Inch Single-Acting

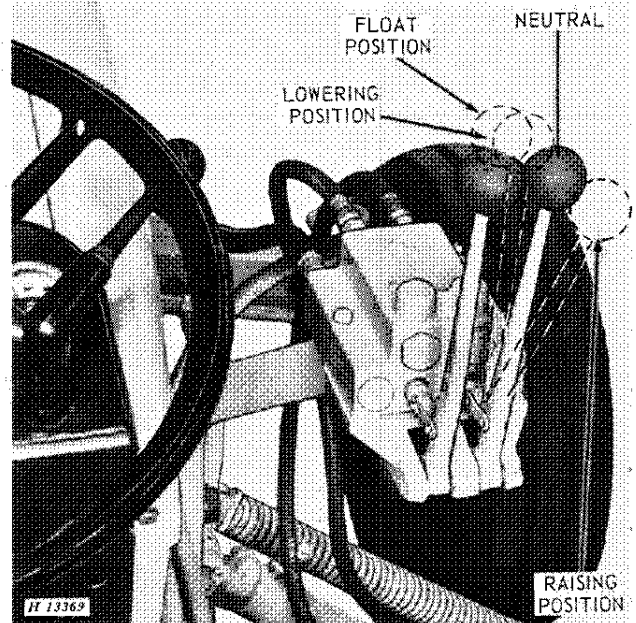
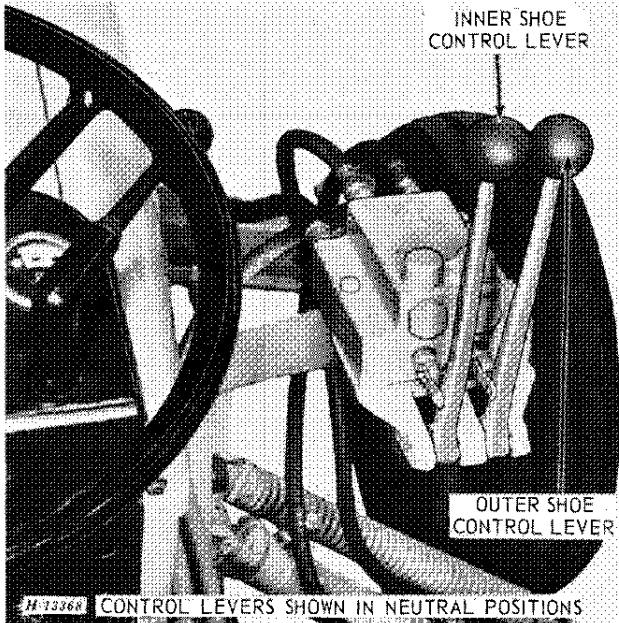
Pressure Relief 1500 psi
 Hoses High Pressure

APPROXIMATE SHIPPING WEIGHT. 610 lbs.- Equipped with 6-ft. cutter bar

(Specifications and design subject to change without notice.)



CONTROLS



CUTTER BAR CONTROL LEVERS

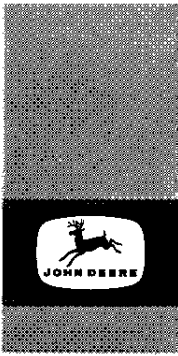
Pull the outer shoe control lever rearward to raise the outer shoe; push the lever forward to lower the outer shoe.

Pull the inner shoe control lever rearward to raise the inner shoe; push the lever forward to lower the inner shoe.

Partial operation such as raising or lowering halfway can be accomplished by releasing the control lever to neutral. The cutter bar will re-

main in the position reached at the time the control lever was returned to neutral. The cutter bar is free to float when the control levers are pushed all of the way forward. The levers will remain in the float position until released.

When the lifting cylinders have been fully retracted, immediately release the control levers from the raising position so that they will return to neutral position. This will prevent oil from by-passing through the release valve and becoming overheated.




OPERATION

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

PREOPERATION INSPECTION

Do not start the tractor until the 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.


 **CAUTION: Protect against the risk of personal injury and machine damage by operating implement only on rpm PTO for which it is designed. 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 awhile and observe knife and other moving parts to see that they operate freely and normally. Check levers and controls to see that they operate properly.

BREAK-IN PERIOD

Operate mower at half speed for five hours.

After mower has been operated for five hours, stop tractor and mower and check mower to see that all nuts and bolts are tight.

 **CAUTION: Always disengage power to cutter bar and shut off tractor engine before dismounting from tractor.**

FIELD OPERATION

OPERATING SPEED

Various mowing conditions require different mowing speeds. Best results will be obtained by running the tractor at the travel speed that will

meet mowing conditions, or the speed where the smoothest mowing action results.

Avoid excessive speeds. Reasonable speeds result in more accomplished by the end of the day.

Operate engine to obtain the SAE-rated PTO speed. 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 925 rpm. An average of 900 rpm (1800 strokes per minute) is ideal. The knife has a 3-inch stroke.

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 post or some other obstacle.

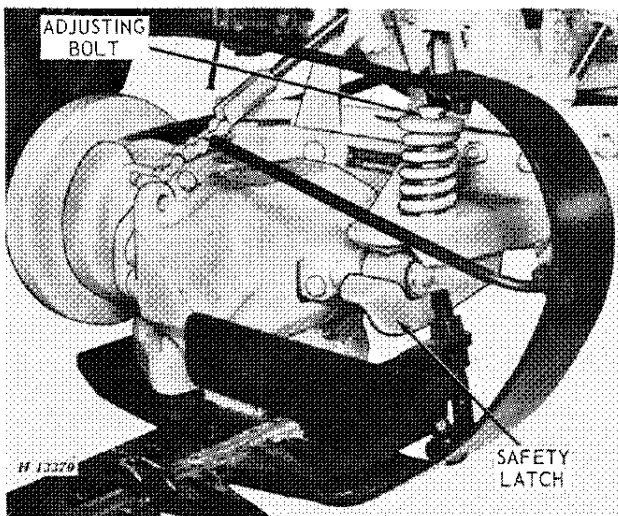
GUMMY TRASH ON CUTTER BAR

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

 **CAUTION: Be extremely careful when doing this.**

4 Operation

SAFETY SPRING RELEASE



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 bolt. Do not tighten spring more than necessary for satisfactory operation.

TRANSPORTING

When moving any considerable distance, place the cutter bar in its transport position.

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

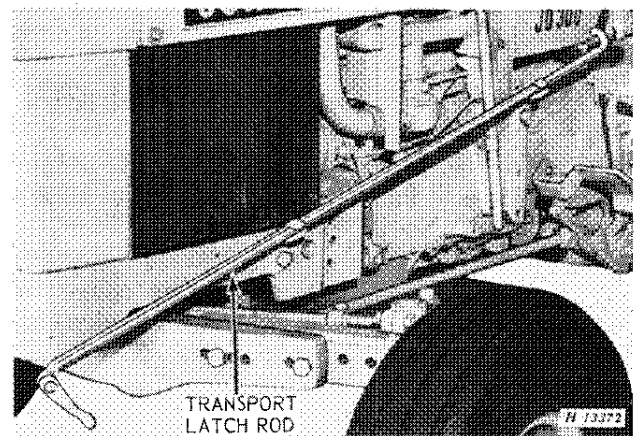
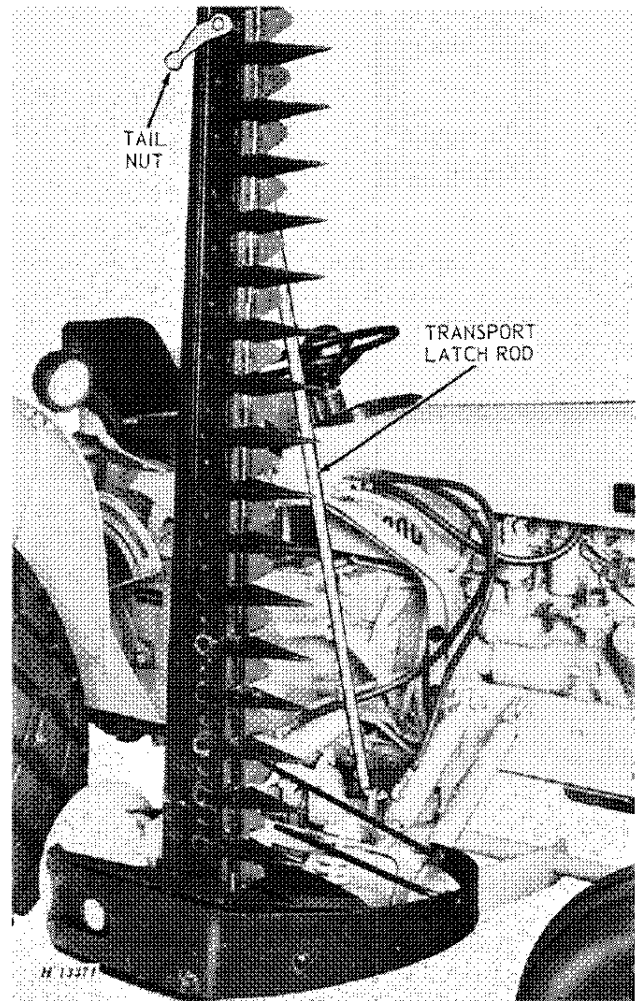
When not in use, transport latch rod fits into clips on left-hand side of tractor frame.



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



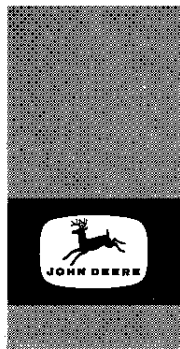
When raising cutter bar by hand, be certain to keep fingers away from cutting parts.



STORING FOR THE WINTER

When storing mower for the winter, clean off dirt, tighten loose bolts, replace any missing 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.



SAFETY SUGGESTIONS



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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.

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

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 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.

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

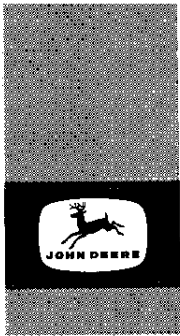
IMPORTANT: Inexperience and lack of "know-how" in repair and maintenance can result in personal injury as well as equipment damage. Know what to do and how to do it before attempting a job.

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



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

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

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

Replace all missing or damaged grease fittings immediately.

IMPORTANT: The "symbols" on the following chart apply to mowers that have been thoroughly broken in. After five hour break in period—relubricate mower entirely. Then follow recommended lubrication intervals.

BEARINGS

Lubricate all grease fittings thoroughly with SAE multipurpose grease. Care should be taken not to damage the grease seals. Avoid excessive lubrication. Excessive lubricant that has dropped onto belts should be wiped off immediately to avoid belt damage.

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.

CUTTER BAR AND KNIFE

Lubricate cutting parts thoroughly with SAE 30 oil except when working in dusty or sandy soil conditions; then do not lubricate at all.

Be Careful



THE LIFE YOU SAVE MAY BE YOUR OWN...

NATIONAL SAFETY COUNCIL

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