

37, 38 and 39 Mowers



OPERATORS MANUAL

37, 38 and 39
Mowers

OMH62916 K5 English

OMH62916 K5

LITHO IN U.S.A.
ENGLISH





TO THE PURCHASER

This manual contains the necessary information to operate, lubricate, adjust, service, 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.

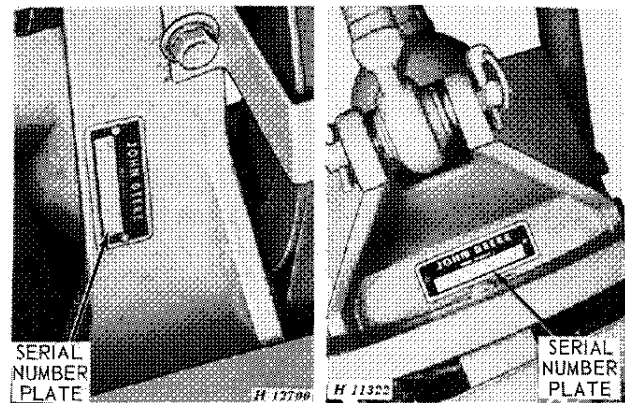
"Clockwise" refers to parts turning to the right like the hands of a clock.

"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 as shown below.



37 and 38
Mower

39 Mower

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

Serial No. _____

Date Purchased _____

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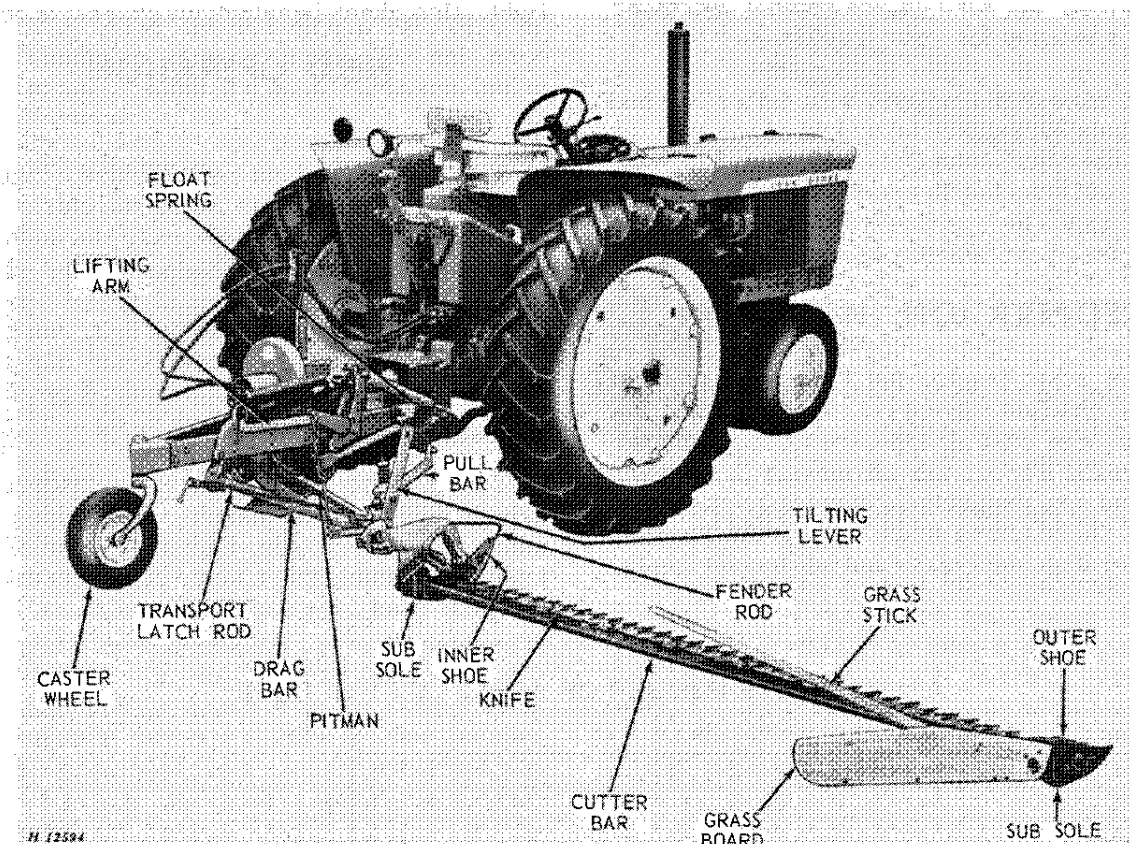
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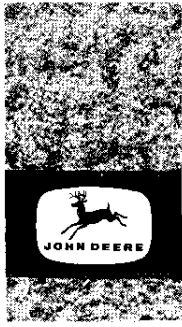


SPECIFICATIONS

Length of Cutter Bar	6, 7, or 9-Foot	Pitman Bearings	Tapered Roller
Type of Power	Power Take-Off on Tractor	Lubrication	Grease Fittings
Type of Drive	V-Belt	Type of Wheels 37	14 or 15-inch Drop Center Rim Pneumatic Tire 4.00 x 8 — 4-Ply Rating
Main Drive Shaft Bearings, Rear	Tapered Roller	38	
Front	Tapered Roller	39	
Flywheel Shaft Bearings, Rear	Tapered Roller	Approximate Shipping Weight with 7-Foot Cutter Bar	
Front	Tapered Roller	37	806 Pounds
		38	701 Pounds
		39	554 Pounds

(Specifications and design subject to change without notice.)





OPERATION

MOWERS EQUIPPED WITH REMOTE HYDRAULIC CYLINDER

Adjust remote hydraulic cylinder for full stroke (see your tractor operator's manual).

IMPORTANT: On John Deere 1020, 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors, be certain the remote hydraulic cylinder hoses are connected to the tractor so cutter bar is raised when tractor control lever is moved forward. On some older Waterloo tractors, the cutter bar is raised by moving the control lever rearward.

On some of the very early remote hydraulic cylinders, with hoses entering perpendicular to each other, it will be necessary to install street elbows so hoses will clear the pivot arm on the mower.

CAUTION: Be sure to use remote hydraulic cylinder specified for your tractor.

When mower is equipped with cutter bar and attachments exceeding the weight of the regular 7-foot cutter bar, John Deere 40, 320, 330, 420, 430 and 1010 Series Tractors with dual Touch-o-matic must be operated with the system in parallel (see your tractor operator's manual).

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 as shown on page 10. Check to see that the powershaft is well lubricated with gun grease and telescopes freely.



CAUTION: Protect against the risk of personal injury and machine damage by operating implement only on powershaft speed 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 PTO.

Start tractor engine and while idling slowly, engage power take-off. Let mower run slowly 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.

CAUTION: Do not adjust mower when tractor engine is operating.

After mower has been in full speed operation for one half hour, stop tractor and mower and check mower to see that all nuts and bolts are tight. Also check bearings for excessive heating.

FIELD OPERATION

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 at slower speed since the cutter bar swings around faster when turning in this direction.

Operating Speed

Under most conditions, the tractor can be driven at 5 to 7 miles per hour without causing undue wear on mower. Best results will be obtained by running the tractor at the travel speed that will meet crop and field conditions.

APPROXIMATE NUMBER OF ACRES CUT PER HOUR

Miles Per Hour	2	2½	3	3½	4	4½	5	5½	6	6½	7
6-Foot Cut	1-1/2	1-7/8	2-1/8	2-1/2	3	3-1/4	3-3/4	4	4-1/4	4-1/2	4-3/4
7-Foot Cut	1-3/4	2-1/8	2-1/2	3	3-1/2	3-3/4	4-1/4	4-3/4	5-1/4	5-1/2	6
9-Foot Cut	2-1/4	2-3/4	3-1/4	3-7/8	4-3/8	4-7/8	5-1/2	6-1/8	6-5/8	7-1/8	7-5/8

Operate engine to obtain the ASAE rated power take-off speeds. Running the engine at slow speed reduces the knife speed and may cause the knife to clog where cutting it 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.

The mower flywheel shaft speed is 950 rpm (1900 strokes per minute). The knife has a 3-1/4-inch stroke.

Do not engage power take-off with engine running at high speed. To do so may cause possible breakage.

Additional Traction for Mower Wheels (37 Mower)

With a 9-foot bar, and in some other cases, side draft may cause some "side slippage" on the mower wheels. This can be overcome by adding liquid weight to the tires. It is recommended that a water-calcium chloride solution be used. See your John Deere dealer for this service.

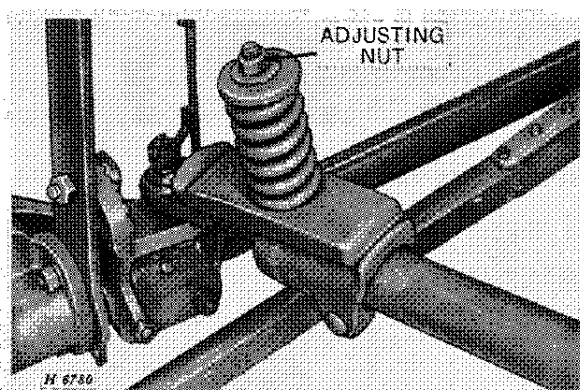
Gummy Trash on Cutter Bar

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



CAUTION: Be extremely careful when removing gummy trash. Do not wear loose clothing and keep hands and feet at a safe distance.

Safety Spring Release



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

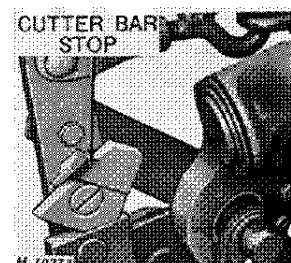
To relatch cutter bar, back tractor sharply. If a 38 or 39 Mower is being used, it may be helpful to cramp the front wheels of the tractor to the left.

Spring tension may be adjusted by means of

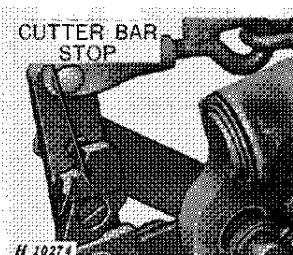
adjusting nut. Do not tighten spring more than necessary for satisfactory operation.

Cutter Bar Stop

Whenever the mower is being operated, be sure cutter bar stop is in "operating" position as shown.



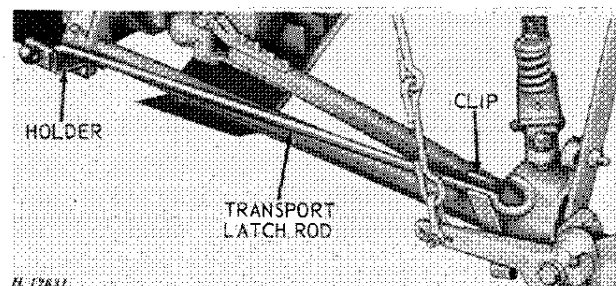
Stop in Operating Position



Stop in Transporting Position

Transport Latch Rod

When not in use, store the transport latch rod, by securing the threaded end in the holder with wing nut and inserting the other end into clip.



Pitman

At the start of every mowing period and after every 50 hours of operation, tighten bolts at each end of pitman to 20 ft-lbs torque.

STORING FOR THE WINTER

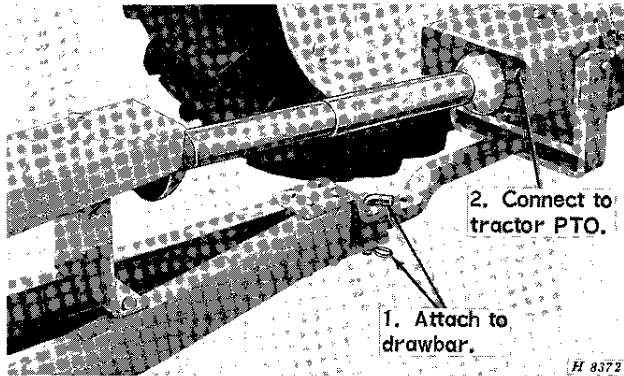
When storing mower for the winter, be sure cutter bar is not tilted so pitman is under strain—it is likely to take a permanent twist and later cause trouble. If possible, remove pitman.

Clean off the dirt, tighten loose bolts, spread cotter pins and grease mower. Paint cutter bar with oil or plow share paint. Relieve tension on V-belt. Order new parts that will be needed before the mower is used again.

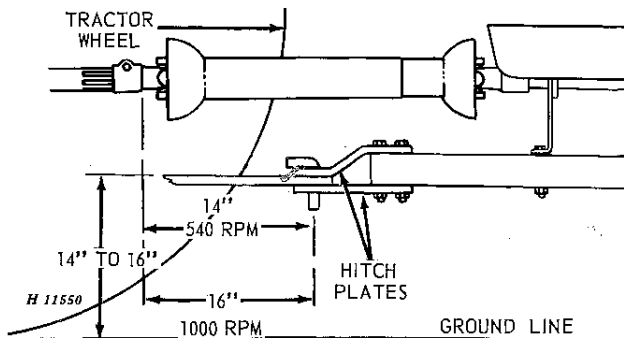
4 Operation

ATTACHING 37 MOWER TO TRACTOR

Connecting Hitch and Joining PTO

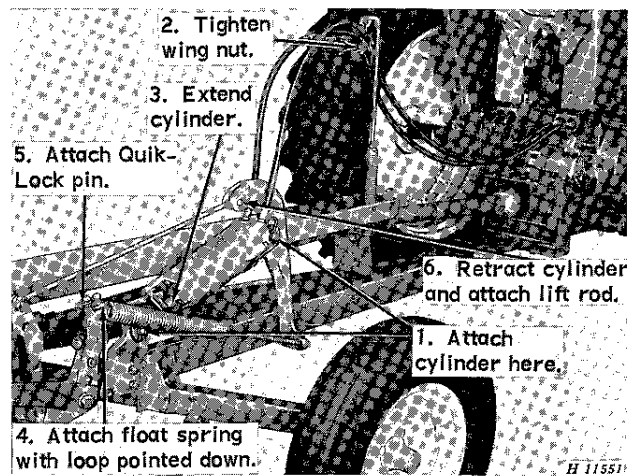


Adjusting Hitch

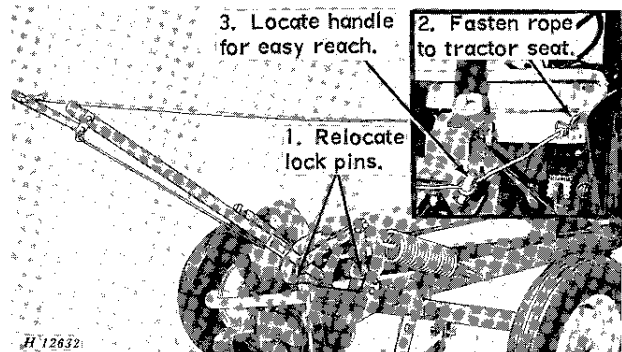


Interchange the two hitch plates, so power-shaft runs in a straight line as seen from the side.

Installing Remote Hydraulic Cylinder



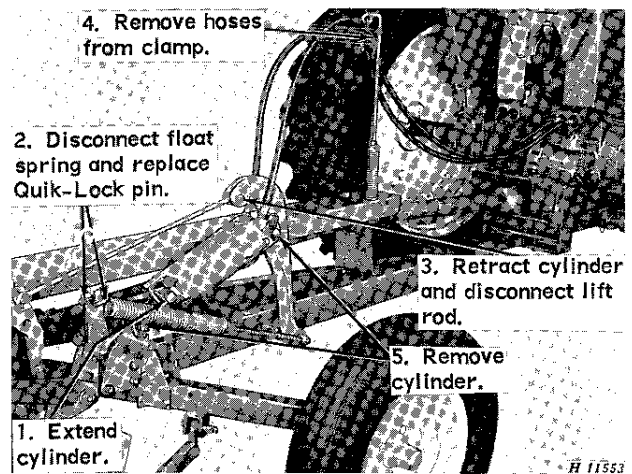
Attaching Hand Lever Rope



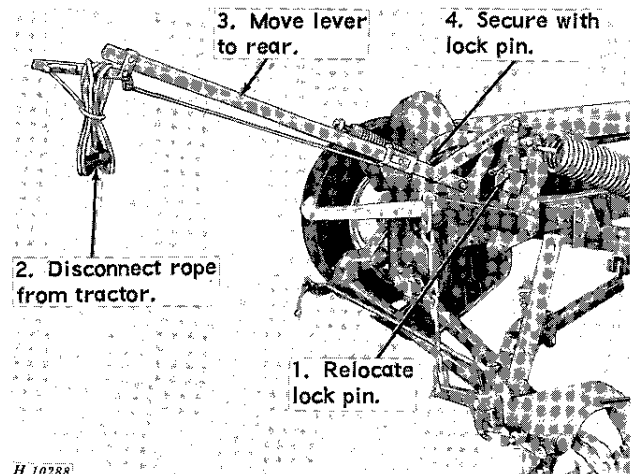
Readjust float spring, lever assist spring, lifting chain and swivel adjustment, and lift adjustment. See pages 19 and 20.

REMOVING 37 MOWER FROM TRACTOR

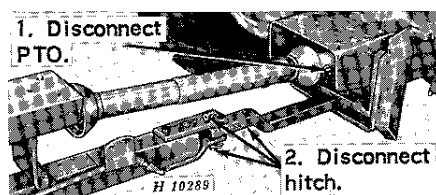
Disconnecting Remote Hydraulic Cylinder



Disconnecting Hand Lever Rope

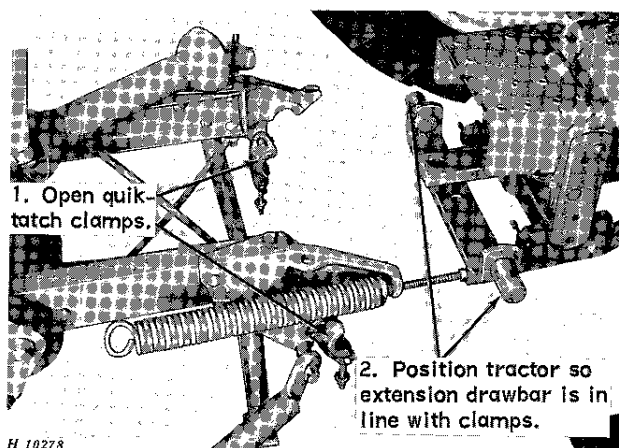


Disconnecting Mower

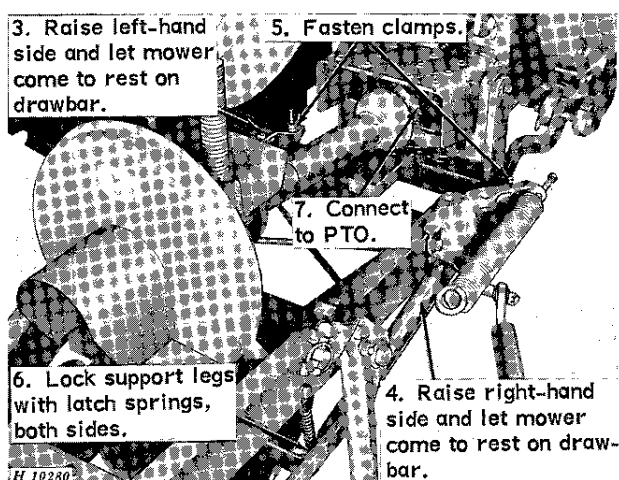


ATTACHING 38 MOWER TO TRACTOR

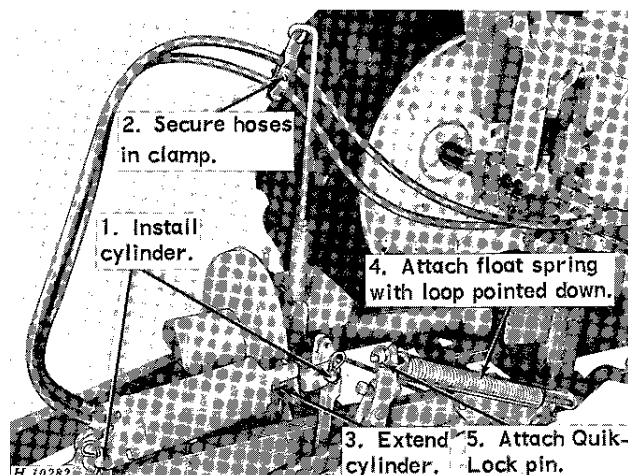
Positioning Tractor



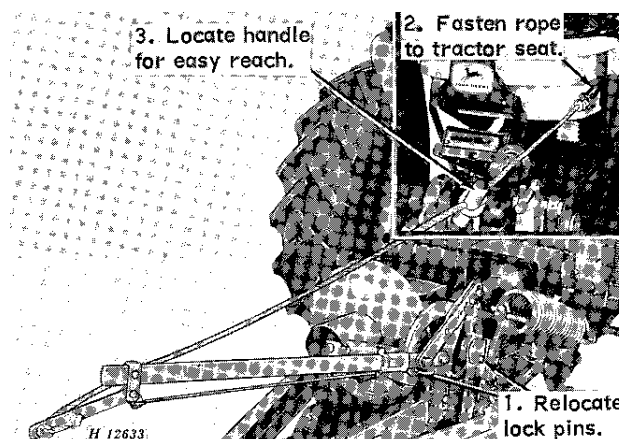
Fastening Clamps and Joining PTO



Installing Remote Hydraulic Cylinder

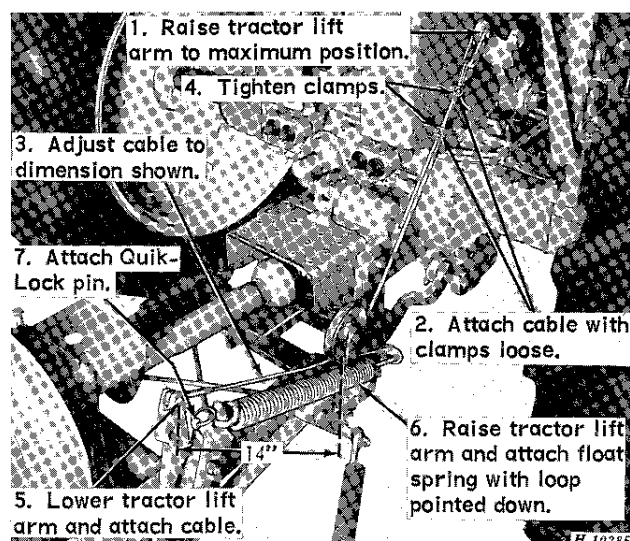


Attaching Hand Lever Rope



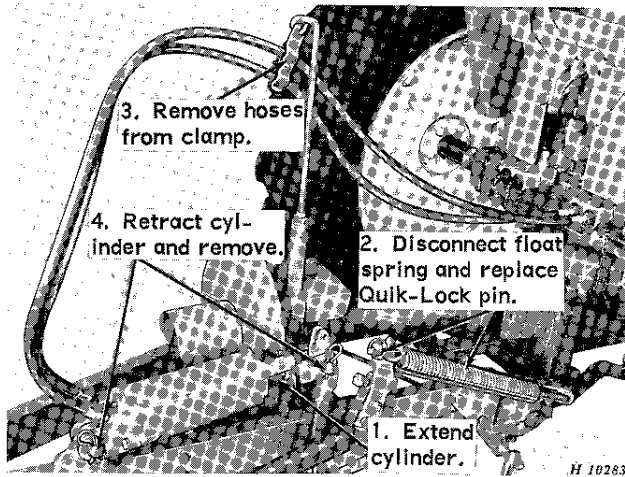
Readjust float spring, lever assist spring, lifting chain and swivel adjustment, and lift adjustment. See pages 19 and 20.

Attaching Cable Lift

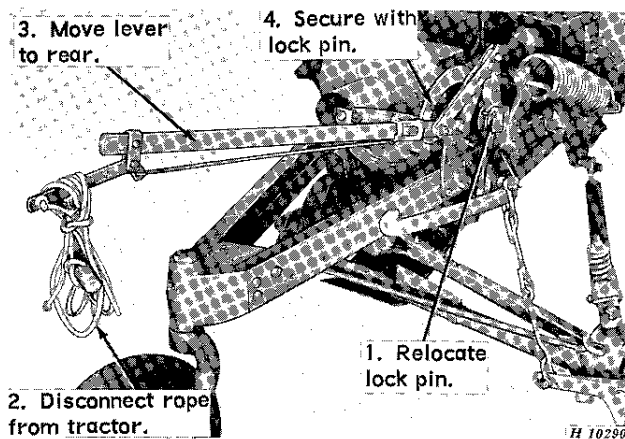


REMOVING 38 MOWER FROM TRACTOR

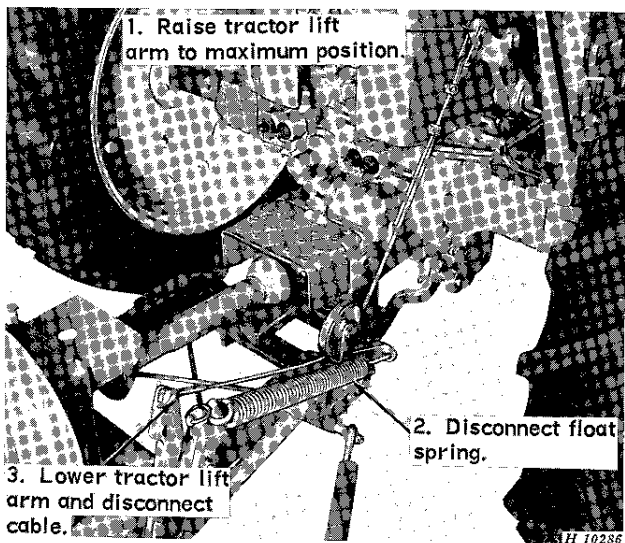
Disconnecting Remote Hydraulic Cylinder



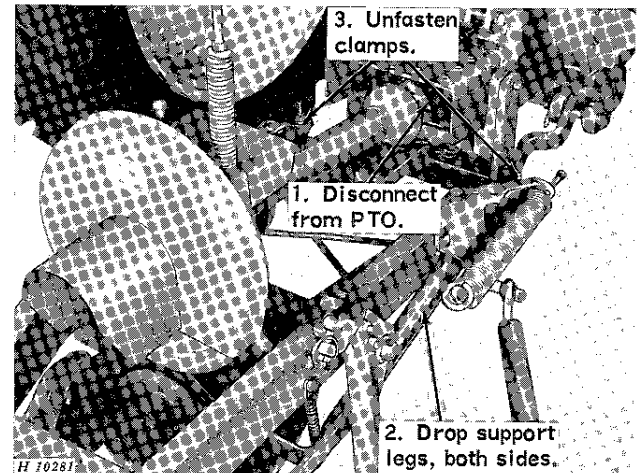
Disconnecting Hand Lever Rope



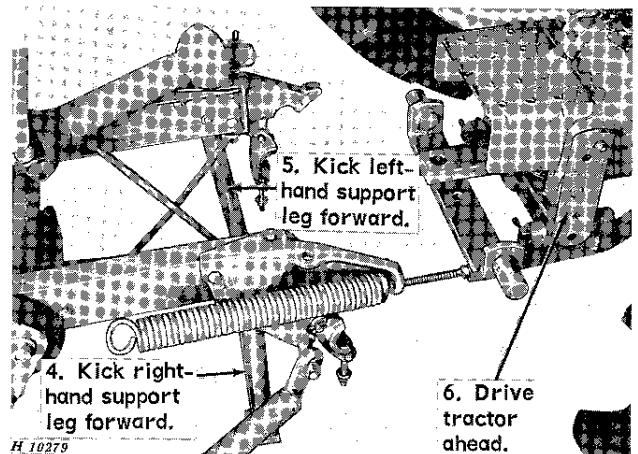
Disconnecting Cable Lift



Disconnecting PTO and Unfastening Clamps



Disconnecting Mower



ATTACHING 39 MOWER TO TRACTOR

IMPORTANT: If the tractor has an automatic implement control system, lock it out or place it in the least sensitive position. Refer to tractor operator's manual.

If your John Deere 520, 530, 620, or 630 Tractor is not equipped with load control lockout, order BH50199H.

On John Deere 720 Tractors, Serial No. 7202435 and Up, and John Deere 730 Tractors, the load control yoke has a 3/4-inch tapped hole. To lock out load control, install and tighten down a set screw. Order BH50191H. For 720 Tractors prior to Serial No. 7202435, order BH50190H load control yoke and set screw.

John Deere 40, 320, 330, 420, 430, 435, and 1010 Series Tractors with dual hydraulic system must be operated with lift links in inner holes of lift arms and hydraulic system adjusted for parallel lift arm operation (see tractor operator's manual).

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