

JOHN DEERE 46 FARM LOADER



OPERATORS MANUAL JOHN DEERE 46 FARM LOADER

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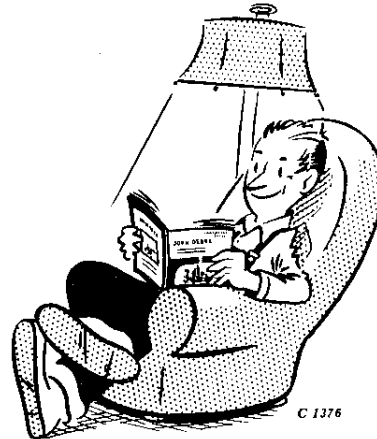
TO THE PURCHASER

This manual covers the operation, service, and lubrication instructions for the John Deere 46 Farm Loader for 3010 Row-Crop, Row-Crop Utility and Standard, and 4010 Row-Crop and Standard Tractors.

This loader has been designed to give many years of satisfactory service. The successful operation and long life of the loader depends, of course, on proper operation and the care given it. The first recommendation is that you read this manual carefully and follow the instructions. By doing so you may save much time and expense in the field. If additional information is needed, see your John Deere dealer.

Lubrication is very important. Refer to the Lubrication Chart.

When in need of parts see your John Deere dealer. He is equipped to provide genuine John Deere parts and service.



Right-hand and left-hand reference is determined by standing at the rear of the tractor-loader combination and facing the forward direction of travel.

Before you forget, fill in the information below.

JOHN DEERE 46 FARM LOADER	
Date Purchased	19
Loader Serial No.	
<i>(To be filled in by purchaser)</i>	



DESCRIPTION

The John Deere 46 Farm Loader may be equipped with either a 41-inch 7-tine bucket or a 60-inch materials bucket. The buckets can be mechanically- or hydraulically-controlled. The lift cylinders are double acting.

The power for operating the loader is derived from the tractor hydraulic system.

Raising or lowering the boom, as well as operating a hydraulically-controlled bucket, is

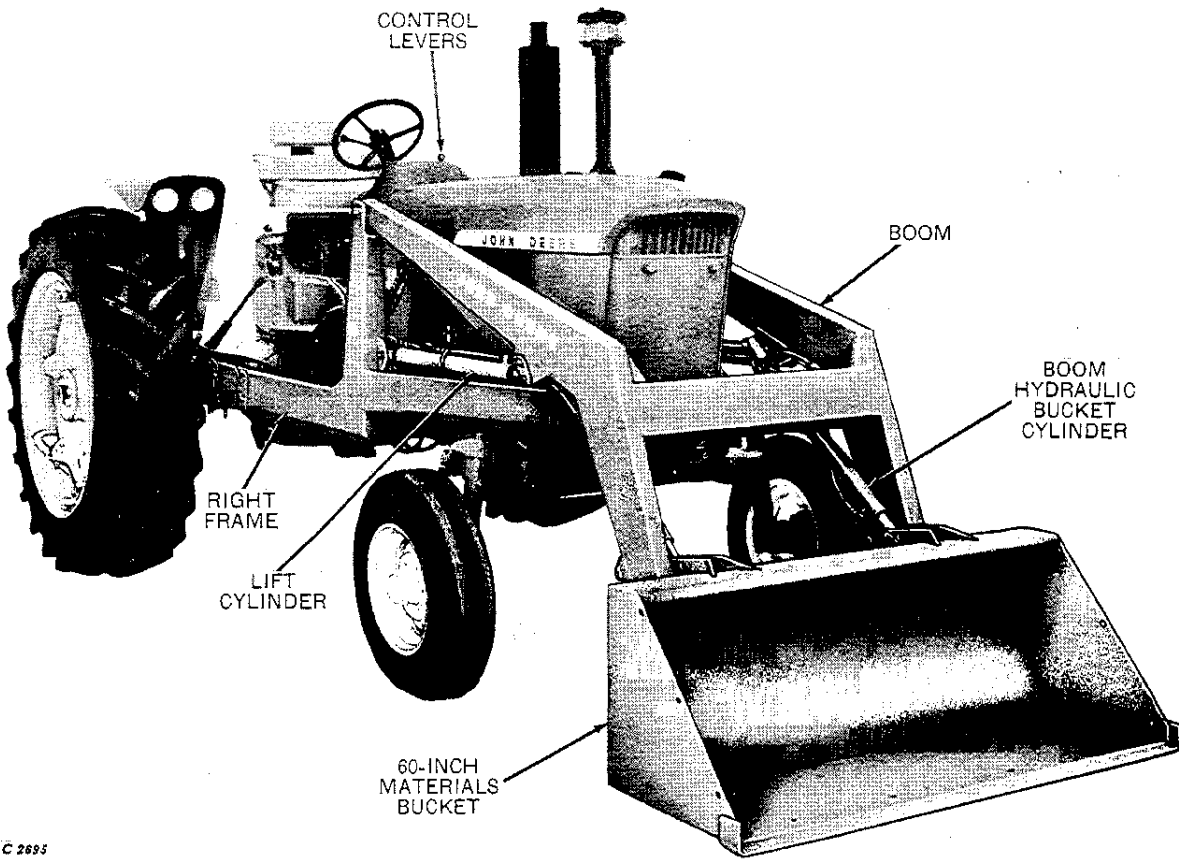
accomplished by operating the tractor remote cylinder operating levers.

Loaders with a mechanically-controlled bucket may be used on tractors with either one or two selective control valves.

Loaders with a hydraulically-controlled bucket must be used with tractors equipped with two selective control valves.

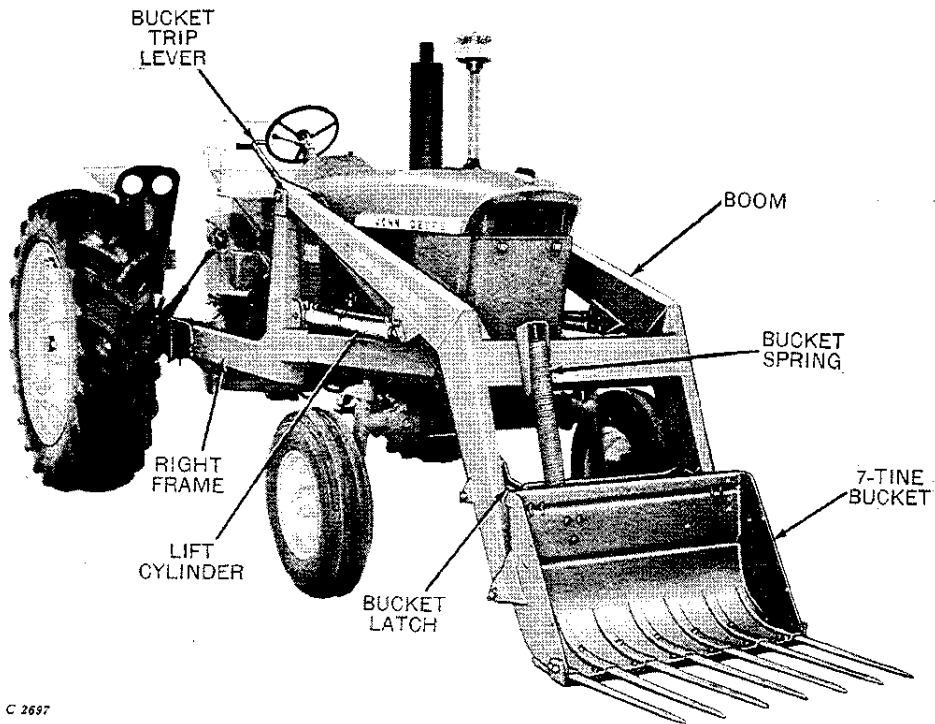
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C 2695

John Deere 46 Farm Loader with Hydraulically-Controlled 60-Inch Materials Bucket on John Deere 3010 Tractor



C 2697

John Deere 46 Farm Loader with Mechanically-Controlled 7-Tine Bucket on John Deere 3010 Tractor



SPECIFICATIONS

Tractors	3010 Row-Crop, Row-Crop Utility, and Standard 4010 Row-Crop and Standard
Tractor Hydraulic Equipment Required	One Selective Control Valve for Loader with Mechanically-Controlled Bucket Two Selective Control Valves for Loader with Hydraulically-Controlled Bucket
Lift and Bucket Cylinders	Double Action
Bucket Control	Mechanical or Hydraulic
Bucket	60-inch Materials 41-inch 7-Tine
Weight (with 7-Tine Bucket and Hydraulically-Controlled Bucket).....	900 pounds
Over-All Length (On John Deere 3010 Tractor with 7-Tine Bucket)	16 feet 10 inches
(On John Deere 4010 Tractor with 7-Tine Bucket)	17 feet 1/2 inch
Rated Breakaway Capacity at Ground Level	3000 pounds
Rated Lift Capacity	2500 pounds
Lift Height (To Heel of Bucket)	9 feet 9 inches
Penetration Below Ground Level	7 inches (approx.)

OPTIONAL EQUIPMENT :

- Scraper Blade
- Crane Attachment
- 7-Tine Bucket Attachments
 - Bottom Sheet Extension with Sides
 - Spill Sheet
 - 80-Inch Utility Bucket
 - Spring for Relatching Utility Bucket
- 60-Inch Materials Bucket Attachments
 - Tines with Cover
 - Bottom Sheet Extension with Sides



OPERATION

TRACTOR PREPARATION AND OPERATION

WHEEL WEIGHTS AND SPACING

Front Wheels

The loader may be operated on tractors with either single or double front wheels. In either case use heavy-duty front tires.

If operated on tractors with double wheels, set the wheels for widest front wheel tread. This eliminates the accumulation of mud between the tires, and also provides better stability.

Increased tire inflation in front tires is necessary for loader operation. Refer to your tractor operator's manual for correct inflation pressures.

Front end weight should not be used.

Rear Wheels

Use the widest rear wheel tread setting possible.

When barn doors or gates limit the rear wheel tread, extra precaution must be taken when operating loader due to decreased stability.

Sufficient ballast should be added to rear wheels to secure the best operation possible. See your tractor operator's manual for ballast and tire inflation instructions.

COLD WEATHER STARTING

To assure smooth operation in cold weather, raise and lower the loader several times to warm the oil in the hydraulic system. A load in the bucket will speed up the warm-up operation.

FUELING LP-GAS TRACTORS

When using the loader with an LP-Gas Tractor, a special fitting must be added to the filler line to prevent interference between the loader frame and the filler line. See instructions on page 15.

CHECKING OIL LEVEL

Check the oil level in the tractor hydraulic system daily. Refer to your tractor operator's manual for instructions. Keep oil supply up to proper level. The oil level should be checked with bucket on the ground and tractor engine stopped. If oil level is low, add oil as instructed in the tractor operator's manual.

ENGINE SPEED

When operating the loader under average conditions, drive the tractor at reduced throttle in second gear.

SAFETY SUGGESTIONS

Never operate loader except from tractor seat.

Carry loads low.

Operate at slow ground speeds, especially on irregular ground.

Never operate a loader with frayed hoses or leaky fittings. A leak in the hydraulic system retards the efficient operation of the loader and may cause an accident.

Under no circumstances lift a person in the bucket.

Do not leave tractor unattended with bucket in raised position.

Never operate loader without the minimum recommended amount of rear wheel weights.

Refer to your tractor operator's manual for additional safety suggestions.

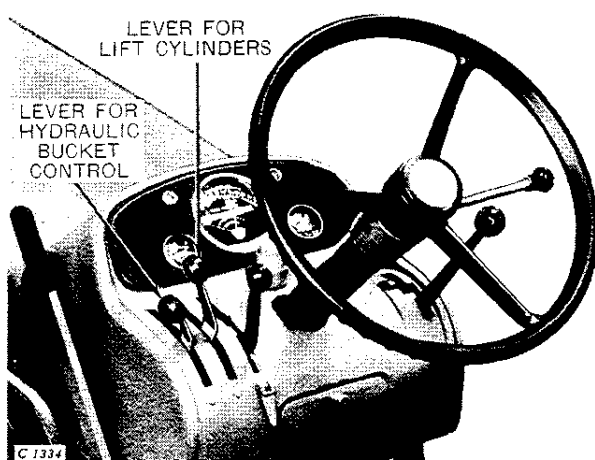
BOOM AND BUCKET CONTROLS

The loader with mechanically-controlled bucket will work on John Deere 3010 or 4010 Tractors with either one or two selective control valves.

The loader with hydraulically-controlled bucket must be used with tractors equipped with two selective control valves.

NOTE: Your John Deere dealer can add a second selective control valve to a 3010 or 4010 Tractor equipped with only one valve.

BOOM CONTROL



The remote cylinder operating lever at the immediate left of the rockshaft control lever, controls the raising and lowering of the loader. The lever has six positions.

1. *Neutral.* Move lever to center position of the quadrant. Boom will remain in position.

2. *Slow raise of boom.* Move the lever toward the front one-quarter of its travel in that direction. The lever must be held in this position until the desired height of bucket is reached.

3. *Fast raise.* Move lever all the way forward. The lever will remain in this position until the boom reaches the extreme raised position, at which time the lever will return to neutral position. The loader will remain in this position.

4. *Slow descent of boom.* Move the lever toward the rear one-quarter of its travel in that direction. The lever must be held in this position until the boom has lowered to desired height.

5. *Fast descent of boom.* Move lever rearward to the first lock position. The lever will remain in this position until the bucket rests on the ground at which time it will automatically return to neutral position.

6. *Float.* Move the lever all the way rearward in the quadrant to a sixth position to permit "floating" action of the loader. This position may be used to secure "ground-hugging" bucket action when digging at the extreme bottom of a pile. It may be used to advantage when leveling feed yards with the scraper blade.

It will be necessary to alter the control lever linkage on the tractor before the float position can be used. Refer to your tractor operator's manual for instructions.

NOTE: The left cylinder operating lever should be adjusted to obtain float position for satisfactory loader operation. Do not adjust the bucket operating lever for float position.

BUCKET CONTROL

Loaders with Hydraulically-Controlled Bucket

The outer remote cylinder operating lever controls the operation of the bucket.

Move the lever forward to dump the bucket. Move the lever rearward to close the bucket.

Intermediate positions of the operating lever can be used to control slow and fast operation of the bucket in the same way as for boom control. Operating lever must be held in intermediate position. Operating lever will remain in extreme forward or rearward position until bucket is completely dumped or closed.

See page 6 for materials bucket tilt adjustment.

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