

37 Farm Loader 510 and 710 Tractor



JOHN DEERE

OPERATORS MANUAL

37 Farm Loader
510 and 710 Tractor

OMC17687 F6 English

John Deere Horicon Works
OMC17687 F6

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ENGLISH





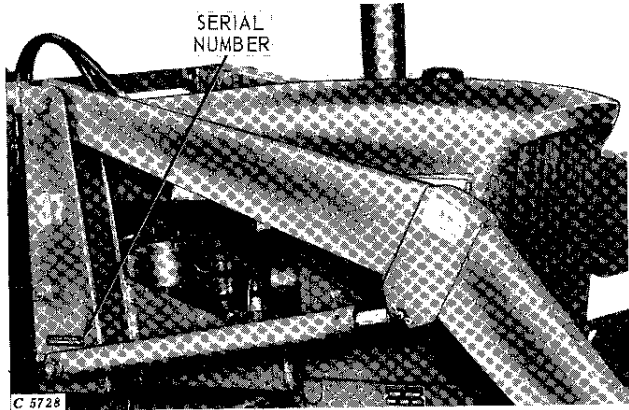
TO THE PURCHASER

This manual contains the operating, servicing and lubricating instructions for the John Deere 37 Farm Loader for use with John Deere 510 and 710 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.

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



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

The serial number of your new loader is located on the right frame as shown above. Record this number in the space below for reference when requesting information or ordering parts.

JOHN DEERE 37 FARM LOADER	
Loader Serial No.	
Date Purchased	19 . . .

(To be filled in by purchaser)

Price \$



DESCRIPTION

The John Deere 37 Farm Loader has been designed for use with John Deere 510 and 710 Tractors.

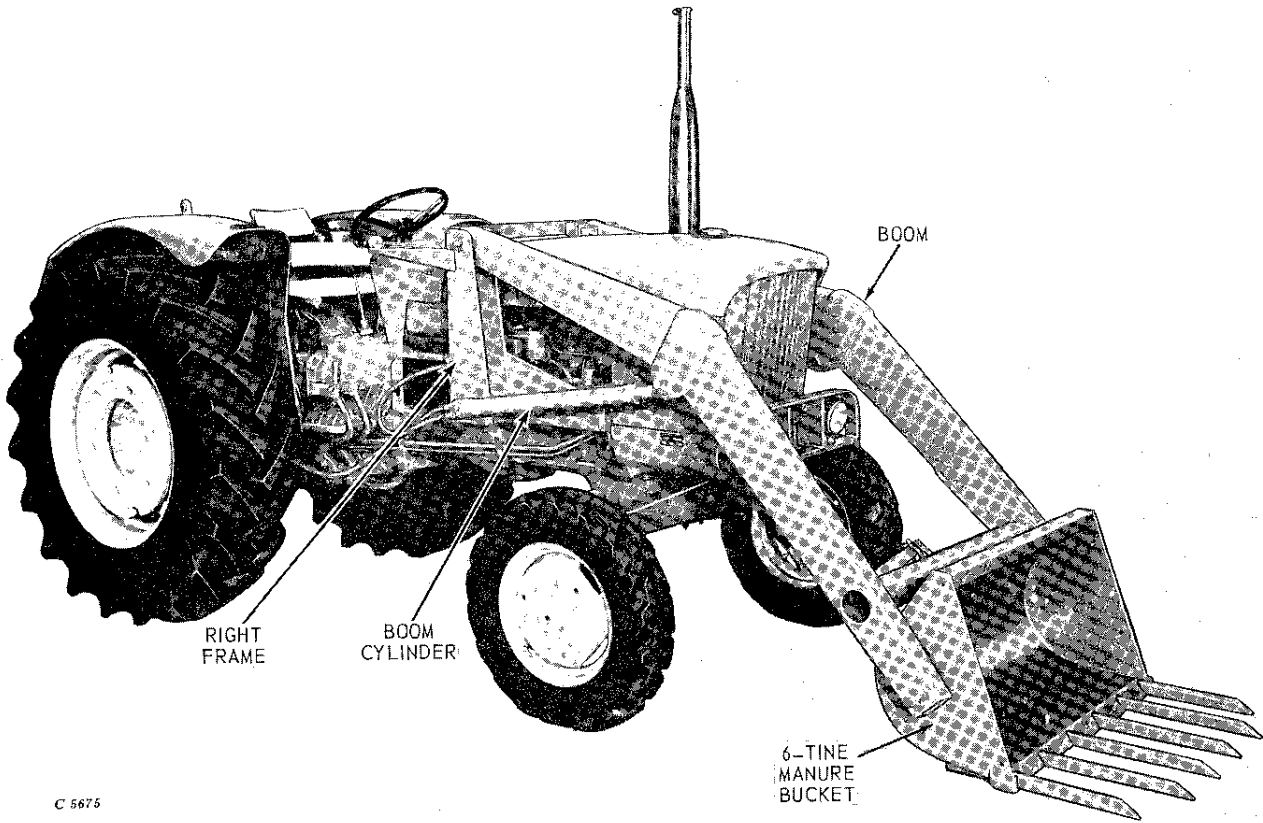
The loader with a mechanically controlled bucket requires a tractor equipped with either one single-acting selective control valve *or* one double-acting selective control valve. The lift cylinder hose is connected to the hydraulic coupler at the rear of the tractor.

The loader with a hydraulically controlled bucket requires a tractor equipped with one single-acting selective control valve *and* one double-acting selective control valve. The bucket cylinder hoses are connected to the hydraulic couplers at the rear of the tractor. The lift cylinder hose is connected to a single hydraulic coupler under the left step plate.

Two buckets are available: a 6-tine manure bucket and a 40-inch materials bucket.

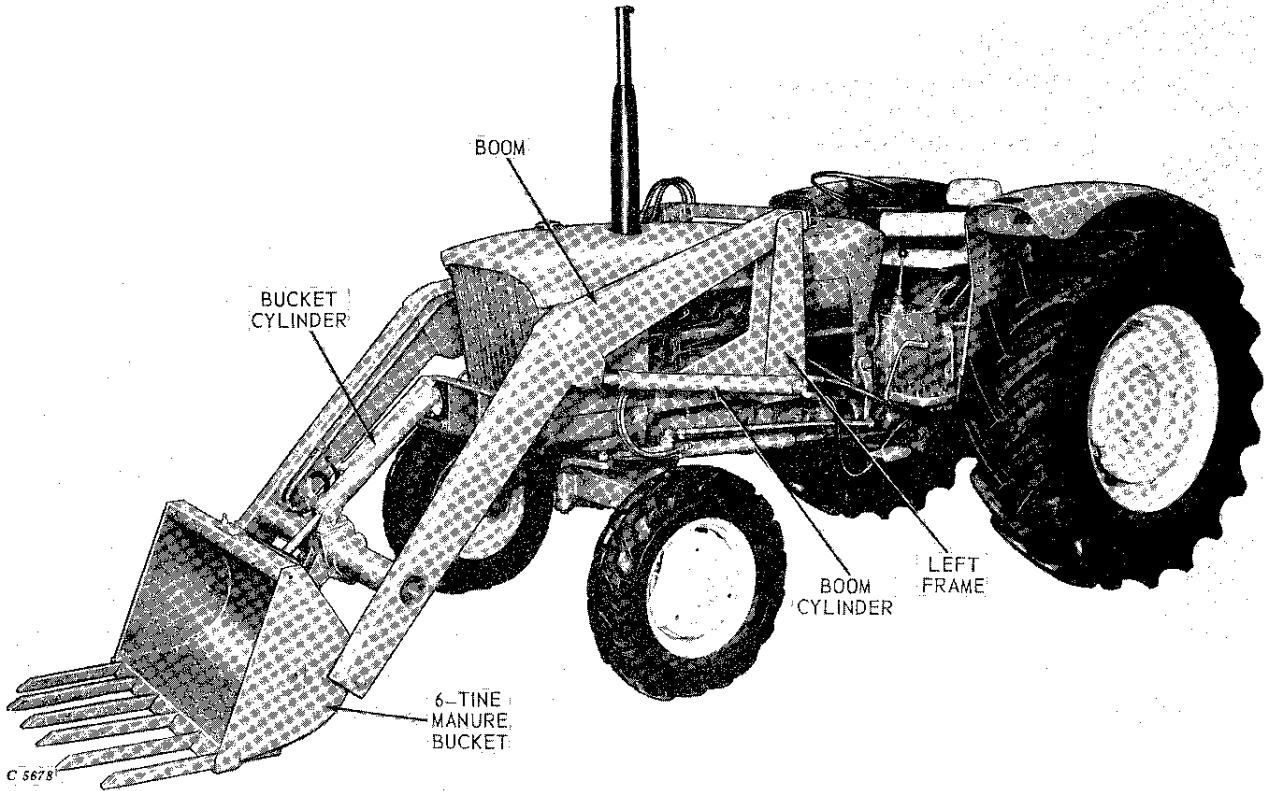
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C 5675

John Deere 37 Farm Loader with Mechanically Controlled 6-Tine Manure Bucket on John Deere 710 Tractor



C 5678

John Deere 37 Farm Loader with Hydraulically Controlled 6-Tine Manure Bucket on John Deere 710 Tractor



SPECIFICATIONS

TRACTORS	John Deere 510 and 710
TRACTOR HYDRAULIC EQUIPMENT REQUIRED	For Mechanically Controlled Bucket: Single-Acting Control Valve (coupler at rear) or Double-Acting Control Valve (couplers at rear) For Hydraulically Controlled Bucket: Double-Acting Control Valve (couplers at rear) and Single-Acting Control Valve (coupler at front)
BOOM CYLINDER	Single Acting
BUCKET CYLINDER	Double Acting
BUCKET CONTROL	Mechanical or Hydraulic
BUCKETS	6-Tine Manure or 40-Inch Materials
WEIGHT (With 6-Tine, Hydraulically Controlled Bucket)	Loader Used with John Deere 510 Tractor - 725 Pounds Loader Used with John Deere 710 Tractor - 737 Pounds
LENGTH (On John Deere 710 Tractor with 6-Tine Hydraulic Bucket)	16 Feet 2 Inches
BREAKAWAY CAPACITY	1750 Pounds
LIFT CAPACITY	1000 Pounds
LIFT HEIGHT (To Heel of Bucket)	9 Feet 5 Inches
PENETRATION BELOW GROUND LEVEL	3 Inches
EXTRA EQUIPMENT	Blade Shoes for Blade Crane Spill Sheet Bottom and Side Sheets for 6-Tine Bucket Utility Bucket Attachment for 6-Tine Bucket Mounting Stands

(Specifications and design subject to change without notice.)



OPERATION

PREPARING AND OPERATING THE TRACTOR

WHEEL SPACING

Front Wheels

Adjust the front axle to the narrowest position.

Rear Wheels

Use widest rear wheel tread setting.



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

BALLAST

Front end weight should not be used.

Refer to the tractor operator's manual for rear wheel weighting.

TIRE INFLATION

Refer to your tractor operator's manual for correct tire inflation pressures.

Increased tire inflation in front tires is necessary for loader operation.

COLD WEATHER OPERATION

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

ENGINE SPEED

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

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.

Before checking oil supply, operate the loader all the way up and down three or four times and return bucket to ground. Stop tractor engine and then check oil supply. If oil level is low, add oil as instructed in the tractor operator's manual.

OPERATING LOADER CONTROLS



Escaping hydraulic oil under pressure can cause personal injury; therefore, be sure all connections are tight and that lines, pipes, and hoses are not damaged. Before disconnecting lines or pipes in the tractor hydraulic system, be sure to relieve all hydraulic pressure.

To operate the 37 Loader with a mechanically controlled bucket, the tractor must be equipped with either one single-acting control valve or one double-acting control valve.

To operate the 37 Loader with a hydraulically controlled bucket, the tractor must be equipped with one single-acting control valve and one double-acting control valve.

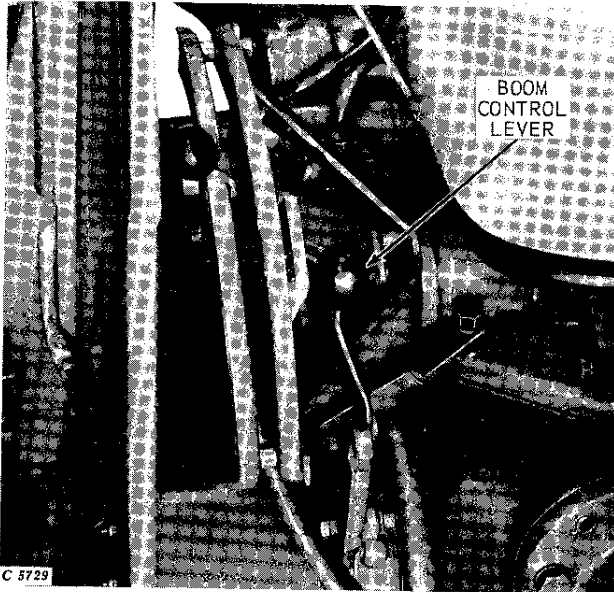
Your John Deere dealer can install additional valves if required.

LOADER EQUIPPED WITH MECHANICALLY CONTROLLED BUCKET

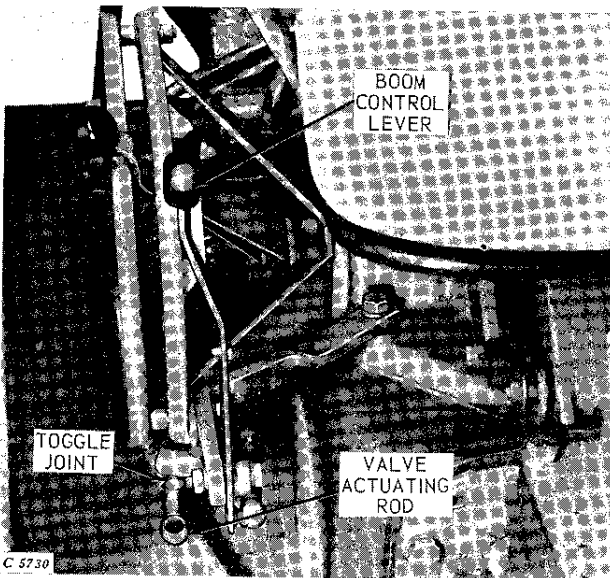
Boom Control

The boom lever controls the raising and lowering of the boom.

Pull the boom control lever to raise the boom.
Push the boom control lever to lower the boom.



Single-Acting Valve

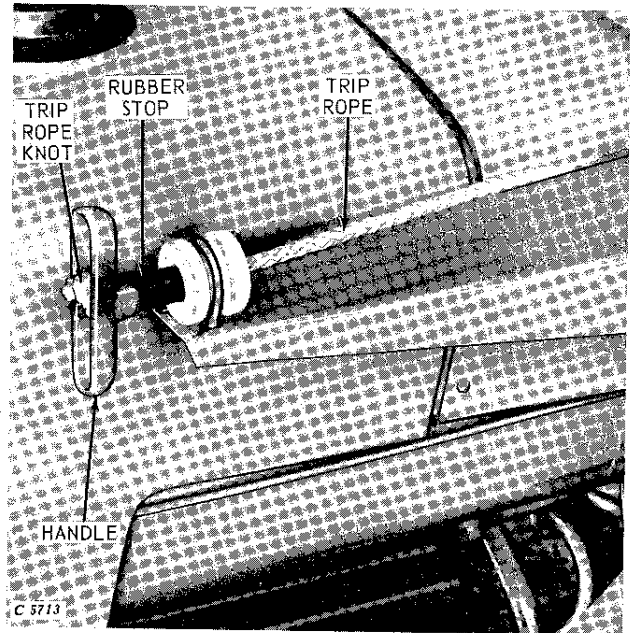


Double-Acting Valve

NOTE: When the tractor is equipped with a double-acting control valve, the outside valve must be made inoperative by disconnecting the valve actuating rod at the toggle joint, as shown above.

Bucket Control

Bucket Latch



The bucket trip handle and support are mounted on the upper right or left frame. Pulling the handle rearward retracts the latch pin from the latch, allowing the weight of the load to swing the bucket into the dump position. The bucket is latched by lowering the boom.

The bucket trip rope must be knotted so that the latch pin is fully engaged in the bucket latch and there is no slack in the trip rope.

✓

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