

35 Series 1 Farm Loader for 435 Diesel, 330, 430, 320, 420, and 40 Series Tractors



JOHN DEERE

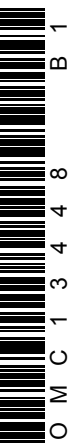
OPERATORS MANUAL

35 Series 1 Farm Loader for 435 Diesel, 330, 430,
320, 420, and 40 Series Tractors

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ENGLISH





to the purchaser

This manual covers the operation, service, and lubrication instructions for the John Deere 35 Farm Loader "Series 1" used with 435 Diesel, 330, 430, 320, 420, and 40 Series Tractors. Operating instructions for the 35 Farm Loader used with other John Deere tractors are covered in separate operator's manuals.

This loader has been designed to give many years of satisfactory service. The successful operation and long life of the loader depends on proper operation and the care given it. 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- 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 35 FARM LOADER
"SERIES 1"**

Date Purchased 19

(To be filled in by purchaser)



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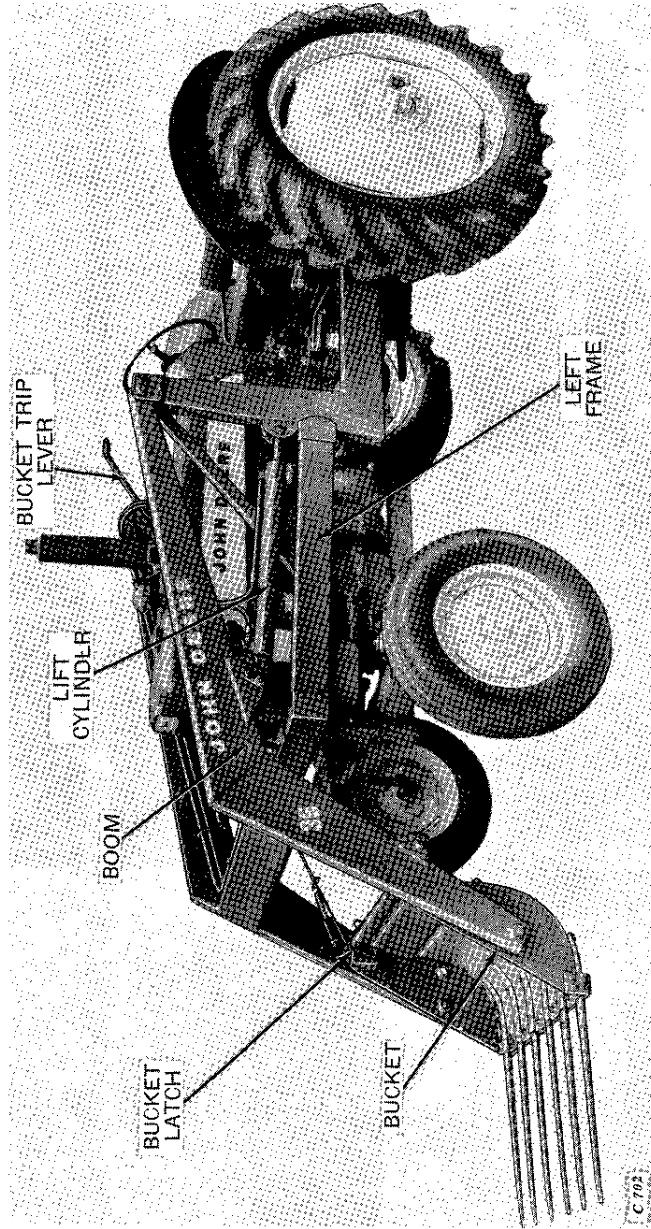
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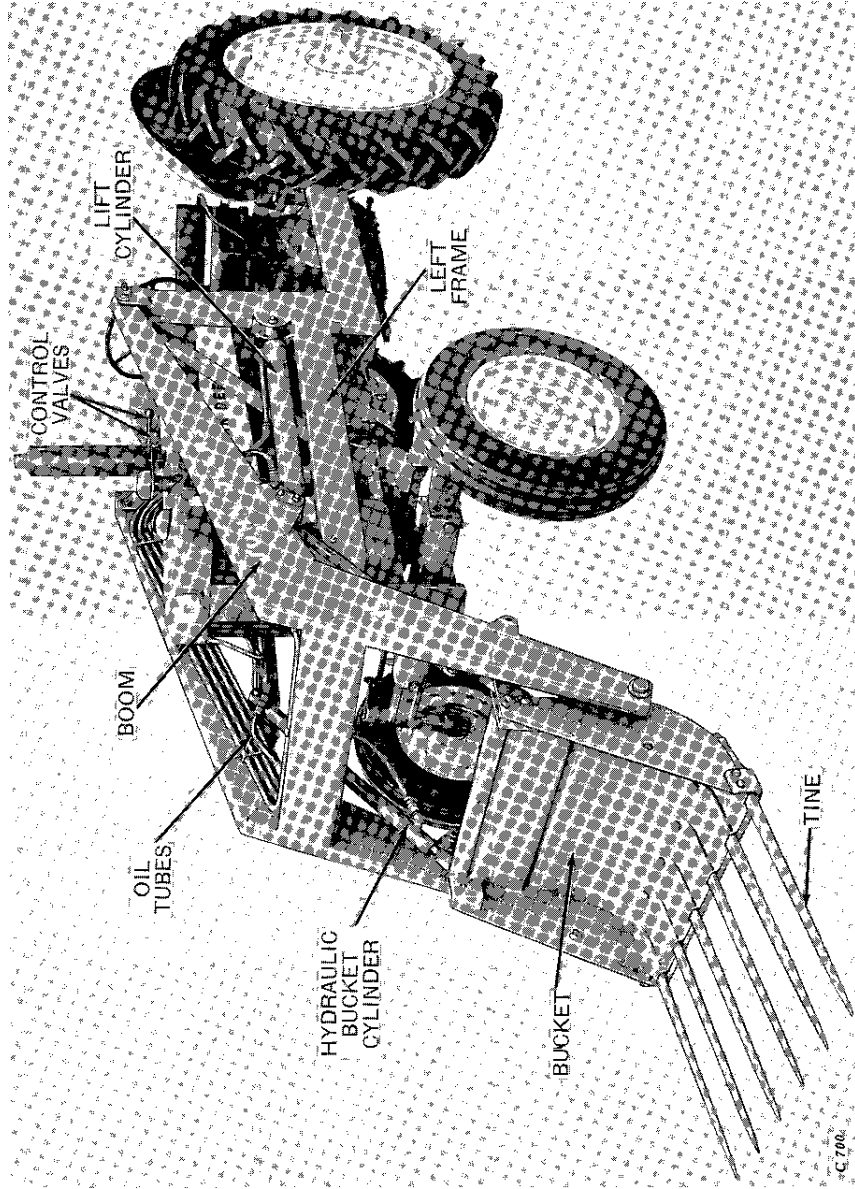
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John Deere 35 Farm Loader with Mechanically-Controlled Bucket



John Deere 35 Farm Loader with Hydraulically-Controlled Bucket



description

The John Deere 35 Farm Loader has been designed to fit the following tractors which are covered in this manual:

John Deere 430, 420, and 40 Series Row-Crop Utility; 430, 420, and 40 Series Tricycle; 330, 430, 320, 420, and 40 Series Standard; 330, 430, 320, 420, and 40 Series Utility; and 435 Diesel with dual front wheels.

The loader is also designed to be used with John Deere 3010 Row-Crop, Row-Crop Utility, Standard; 2010 Row-Crop, Row-Crop Utility; 1010 Single Row-Crop, Row-Crop Utility, and Utility Tractors. Operating instructions for using the loader with these tractors are covered in separate operator's manuals.

If the loader is to be used with a tractor equipped with remote cylinder attachment, this attachment must be made inoperative.

The loader may be equipped with a mechanically- or hydraulically-controlled bucket.

When the 35 loader with mechanically-controlled bucket is mounted on a John Deere tractor, one control valve must be added to the tractor hydraulic system. This control valve controls the boom.

When the 35 Loader with hydraulically-controlled bucket is mounted on a John Deere tractor, two control valves must be added to the tractor hydraulic system. The outer control valve controls the boom and the inner control valve controls the bucket.

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

Specifications

Weight (Gross)	775 pounds
Over-All Length (On John Deere 430 Tractor with 12:00 x 28 Tires)168 inches
Rated Breakaway Capacity (At 1350 PSI)2000 pounds
Rated Lift Capacity (At 1350 PSI)1700 pounds
Lift Height (To Heel of Bucket)9 feet 9 inches

The following optional equipment is available for use with the 35 Loader:

- Bottom Sheet Extension
- Utility Bucket
- Spill Sheet
- Dirt Bucket

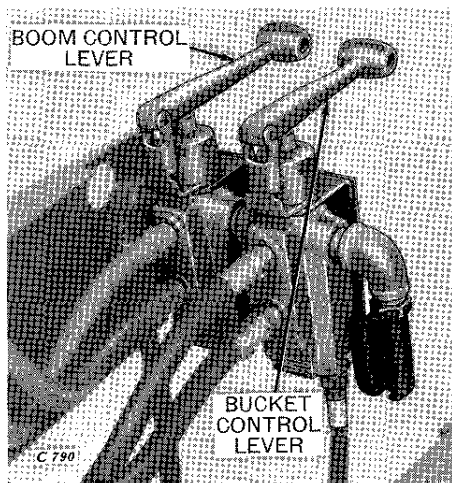
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operation

Controls

Loader with Hydraulically-Controlled Bucket



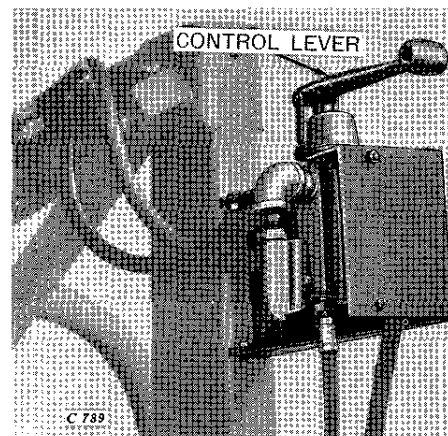
When the 35 Loader with hydraulically-controlled bucket is mounted on a John Deere Tractor, two control valves are required.

The right-hand valve controls the up and down movement of the boom. The boom may be stopped at any point between fully raised and fully lowered positions by releasing the lever. Pushing the lever down raises the boom, and lifting the lever lowers the boom.

The inner control valve (left-hand) controls the hydraulic bucket operation. Pushing the lever down tips the bucket downward, raising the lever returns the bucket to digging or carrying position.

The world's best safety device is a careful operator.

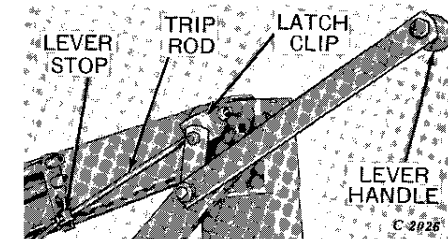
Loader with Mechanically-Controlled Bucket



When the 35 Loader with mechanically-controlled bucket is mounted on a John Deere Tractor, one control valve must be added to the tractor hydraulic system.

This valve controls the up and down movement of the boom. Pushing the lever down raises the boom, and lifting the lever lowers the boom. The boom may be stopped at any point between fully raised and fully lowered positions by releasing the lever.

Bucket Trip Lever and Suck Adjustment



The lever stop on the bucket trip rod must be located on the rod at a



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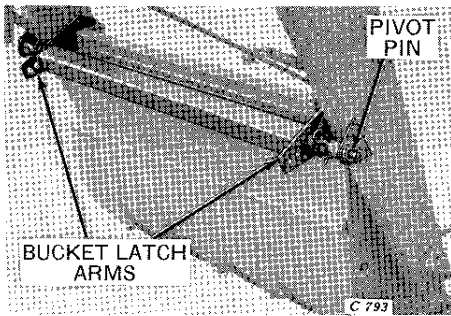
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6 operation

point where the latch arms are held in proper place to lock the bucket. This point is determined by raising the boom slightly off the ground and latching the bucket securely. Push the bucket trip lever rearward until no slack remains in the trip rod, but the bucket latch assembly does not move. Place the lever stop against the stop on the boom and tighten set screw.

This adjustment must be made each time bucket suck (tilt) is changed.

The handle of the trip lever may be assembled on either side of the lever to suit the convenience of the operator.



Bucket suck adjustment is provided by a series of holes in the bucket latch assembly. Removal of the spring locking pins and latch pivot pins and relocation in other holes in the latch arm will change the tilt of the bucket. Using holes further back in the latch arm assembly will tilt the bucket at a greater angle resulting in faster and deeper penetration of the bucket teeth. Best results are obtained when downward tilt is not excessive.

Whenever the pivot pins are relocated in the latch assembly, the trip rod and lever must be readjusted as explained on page 5.

Tractor operation

Wheel weights and spacing

Do not use a 35 Loader with a John Deere tractor equipped with a single front wheel or with the 430 Tricycle Tractor with tubular axle.

Use minimum front wheel tread on 330, and 430 Standard, and 330 Utility. Front wheel tread must not exceed 56 inches on 435 Diesel, 430 Utility, Row-Crop Utility, and Tricycle Tractors with wide front axles.

Use maximum rear wheel tread setting on all tractors.

Use maximum rear wheel weighting as shown in tractor operator's manual.

Tire inflation

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

Cold weather starting

In cold weather, run the tractor engine at half throttle speed ten minutes to warm the oil in the hydraulic system; most cold weather troubles are caused by operating loaders with cold oil. Warming the oil before loading will assure smooth operation of the loader. Also, be sure proper weight of oil is used in hydraulic system.

Checking oil level

Check the oil level in the hydraulic system daily. Keep oil supply up to the proper level. The oil level should be checked with the bucket on the ground and tractor engine stopped except on the 435 Diesel which should be checked with the motor running. If the oil level is low, see page 22.

Engine speed

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

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