

JOHN DEERE 143 FARM LOADER



JOHN DEERE

OPERATORS MANUAL

JOHN DEERE 143
FARM LOADER

OMW21356 C6 English

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LITHO IN THE U.S.A.
ENGLISH





To the Purchaser

This new loader was carefully designed and manufactured to give years of dependable service. To keep it operating effectively, read the instructions in this operator's manual.


Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or service. Read the “Table of Contents” to learn where each section is located.

In addition to the equipment furnished with your loader, attachments are available to help you do a better job under various conditions. These are described in the attachments section of this manual and can be purchased from your John Deere dealer.

“Right-hand” and “left-hand” sides are determined by facing in the direction of forward travel.

Record your loader serial number in the space provided on page 43. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your loader requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts - accept no substitutes.

The warranty on this loader appears on your copy of the purchase order which you should have received from your dealer when you purchased the loader.

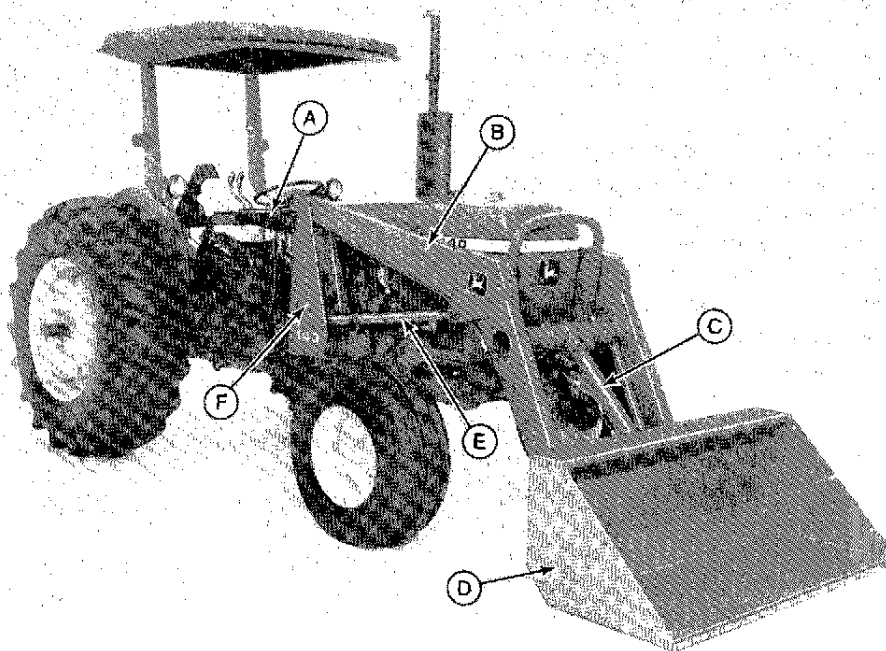
 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.



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A—Independent Control Valve
B—Boom

C—Bucket Cylinder
D—Materials Bucket

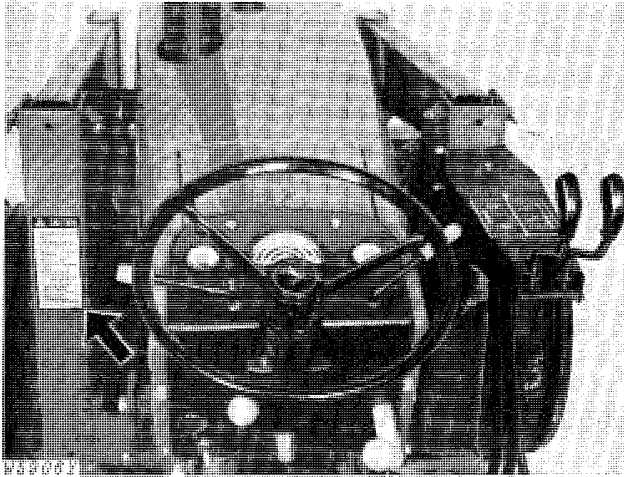
E—Boom Cylinder
F—Mast



Safety Rules

! Simple adjustments and safety features were built into the loader wherever possible. However, ordinary caution must be taken when operating the loader. You can avoid many accidents by observing the rules for safety given below. Study these rules carefully and insist that they be followed by those working with you or for you. There is no substitute for a careful and safe-minded operator.

BEFORE YOU START



1. Read and follow the instructions shown on the decals attached to the loader.

2. Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection can develop if proper medical treatment is not administered immediately.

3. Know your controls. Read this operator's manual and the manual provided with your tractor. Learn how to stop the tractor, engine, and loader quickly in an emergency.

OPERATION

1. Under most operating conditions:

- a) Use of a seat belt with optional John Deere Roll-Gard is recommended.
- b) Use of a seat belt on a tractor without roll-over protective equipment is not recommended.

2. Before operating the loader, be sure no one is standing near it.

3. Only one person, the operator, should be on the tractor-loader when it is in operation.

4. In no case should anyone ride in the bucket, or hitch a ride in any manner.

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

6. Always keep the PTO clutch lever in neutral or disengaged position while using the loader.

7. Never drive the tractor-loader down a hill that is steeper than 15 degrees.

8. The tractor ground speed must not exceed 8 mph (13 km/h) when transporting a load.

9. Carry the load low at all times, especially when working on a hill or backing up an incline.

10. Keep the tractor ground speed slow when operating the loader over rough terrain, especially when operating at or near maximum lift height.

11. Take extra precautions when working in areas where rear wheel tread or lift clearance is limited. Drive slowly through narrow gates and doors.

12. Never use the loader as a battering ram.

13. When operating the loader, remain at the controls until the cycle is completed.

14. Lower the bucket or attachments to the ground when the loader is unattended.

SERVICE AND STORAGE

1. Lower the boom and bucket to the ground and shut off tractor engine before adjusting, servicing or lubricating the loader.

2. Always maintain the tractor and loader properly. Check all fasteners, hoses and other parts frequently. Built-in safety features are effective only if maintained.

3. Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection can develop if proper medical treatment is not administered immediately.



Operation

GENERAL

The John Deere 143 Farm Loader has been designed for use on John Deere 820, 830, 920, 1020, 1030, 1120, 1520, 1530, 1630, 1830, 2020, 2030, 2040, 2120, 2130, 2240, 2440, 2630, and 2640 Tractors provided the tractors are prepared as described under "PREPARING THE TRACTOR".

When transferring the loader from one tractor to another, follow the instructions under "ASSEMBLY" page 23.

PREPARING THE TRACTOR

Front Tires

The following tires are approved for use with the 143 Loader.

6.50 x 16	6PR
7.5L x 15	6PR
7.50 x 16	6PR
9.5L x 15	6PR
11L x 15	6PR
27/9.5 x 15	6PR

Inflate front tires to 4 psi (26.8 kPa) above the pressure specified in your tractor operator's manual for use with heavy front-mounted equipment.

Rear Tires

Inflate rear tires as specified in your tractor operator's manual.

Wheel Tread



CAUTION: Front and rear tread must be 64 inches (1.63 m) or greater to maintain stability.

Due to tire and axle combinations, maximum tread is less than 64 inches (1.63 m) for some tractors. For these cases, refer to your tractor operator's manual and equip the tractor with tires and axles that will adjust to a tread of 64 inches (1.63 m) or greater.

Ballast

Before operating the loader, remove all front ballast from the tractor. Minimum rear ballast figures are for minimum tractor-loader stability requirements. Use maximum ballast figures for improved traction and stability.



CAUTION: To prevent tractor damage and maintain tractor-loader stability, add rear ballast as specified below.

BALLAST AT REAR AXLE OR TIRE

Wheel Type	Ballast Per Wheel			
	820, 830, 920, 1020, 1030, 1120, 1520, 1530, 1630, 2040, 2240		1830, 2020, 2030, 2120, 2130, 2440, 2630, 2640	
	MIN.	MAX.	MIN.	MAX.
Steel Wheels	300 lb. (136 kg)	400 lb. (182 kg)	0	200 lb. (91 kg)
Regular Cast Wheels	100 lb. (45 kg)	200 lb. (91 kg)	0	100 lb. (45 kg)
Heavy Cast Wheels	0	0	0	0

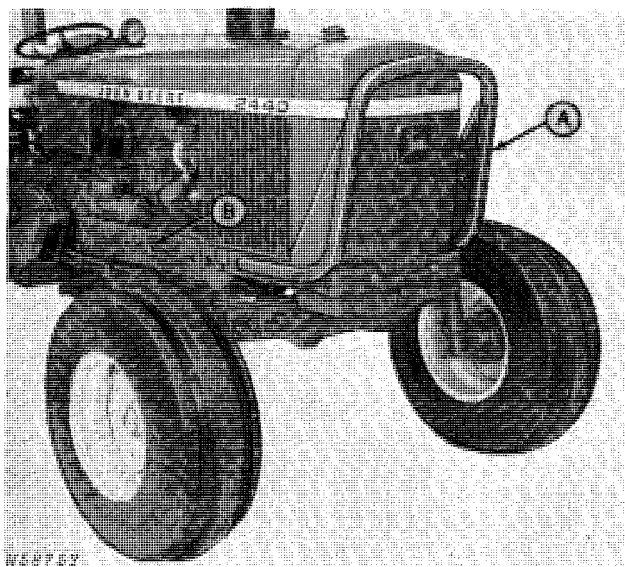
NOTE: See your tractor operator's manual to determine quantity of liquid solution or cast weights required to achieve the recommended ballast.

Ported Filter Cover

A tractor with a closed center hydraulic system must be equipped with ported filter cover AT30197 for use with an independent control valve.

IMPORTANT: Use a steel encased filter element.

Grille Gard



A—Grille Gard

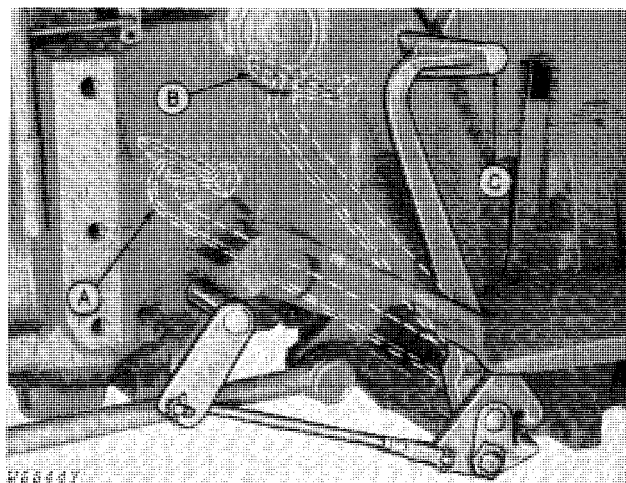
B—Side Frames

Use of Grille Gard (A) is recommended for loader operation.

Side Frames

Remove side frame (B) from each side of tractor before installing loader.

Dual Stage Clutch



A—PTO Disengaged, Transmission Disengaged
 B—PTO Engaged, Transmission Disengaged
 C—PTO Engaged, Transmission Engaged

Disengaging the PTO also disengages the transmission oil pump which supplies the main hydraulic pump. To prevent oil starvation during simultaneous transmission disengagement and loader operation, lock out position (A) as described in your tractor operator's manual.

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