

John Deere BF and BFT Finishing Harrows



JOHN DEERE

OPERATORS MANUAL

John Deere BF and BFT
Finishing Harrows

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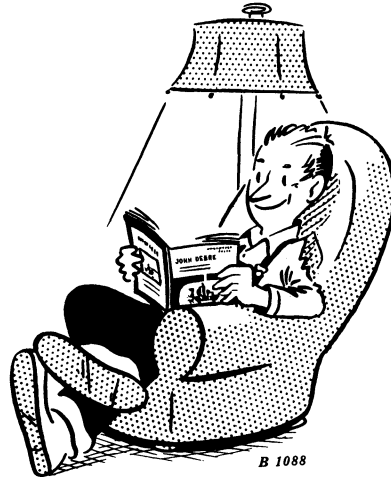
To the purchaser

Your new BF or BFT Finishing Harrow is sturdy and dependable. It will give long and efficient service if given proper care and operation.

This operator's manual contains information on the proper operation, adjustment, and lubrication of your new finishing harrow.

When in need of parts, see your John Deere dealer. He will furnish genuine John Deere Parts and prompt and efficient service in the field or in the shop.

Right-hand and left-hand reference is determined by standing at the rear of the harrow and facing the direction of travel.



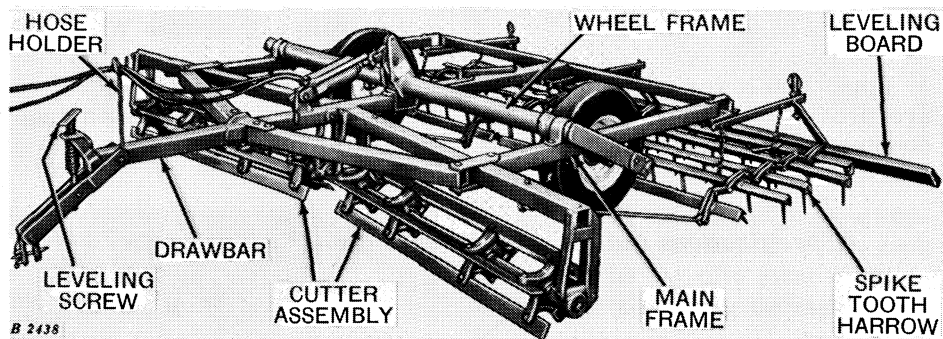
Study this manual carefully. Keep it handy, in a safe place, for future reference.

JOHN DEERE BF OR BFT FINISHING HARROW

Date Purchased

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John Deere 4-Row BF Finishing Harrow

Specifications

The John Deere BF Finishing Harrow is a four- or six-row, heavy-duty, rigid, wheel-carried harrow consisting of cutter blade assemblies, a spike-tooth harrow and a leveling board. It is designed for preparing seedbeds.

The John Deere BFT Finishing Harrow is similar to the BF except that a spring-tooth harrow assembly is used instead of cutter blades.

Either the BF or BFT Finishing Harrows can be used with John Deere Tractors equipped with a remote hydraulic cylinder, or any other tractor using a remote hydraulic cylinder that conforms to ASAE-SAE standards.

Upper and lower cushion springs are provided to absorb shocks encountered when working and trans-

porting. The lower spring also acts as a leveling spring, which compresses when working and extends when the harrow is raised, thus providing a parallel lift for more transport clearance.

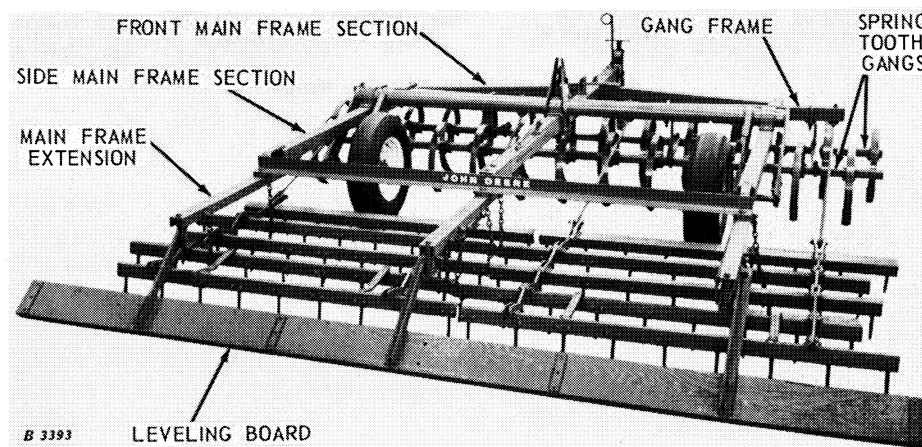
Depth of penetration—Controlled by raising or lowering the carrying wheels with the remote hydraulic cylinder.

Leveling—Adjusting the hand screw on the harrow drawbar levels the harrow for various tractor drawbar heights.

Carrying wheels—14-inch wheels with automotive type adjustable tapered roller bearings. Wheel tread is 80 inches.

Bearings—Anti-friction bearings in the cutter blade assembly.

(Specifications and design subject to change without notice.)



John Deere 4-Row BFT Finishing Harrow

Operation

Hydraulic control

The BF or BFT Finishing Harrow can be used with John Deere Tractors equipped with a remote hydraulic cylinder or any other tractor using a remote cylinder that conforms to ASAE-SAE standards.

Attaching to or detaching from the tractor

The harrow must be in the raised position before attaching it to or detaching it from the tractor drawbar.

Back the tractor up to the harrow, install the remote hydraulic cylinder on the harrow, and place the hoses in the hose holder. If the harrow is not in the transport position, raise it with the cylinder and attach the harrow drawbar to the tractor drawbar.

When detaching the harrow from the tractor, be sure the harrow is in the raised position and the remote cylinder hoses are disconnected before pulling the drawbar pin and driving the tractor away from the harrow.



CAUTION: Lock the tractor drawbar in a fixed position when transporting.

For best results when working the tractor drawbar should be free to swing.

Tire inflation

Inflate the harrow tires to 30 psi. Refer to tractor operator's manual for tire inflation pressure for tractor tires.

Transporting



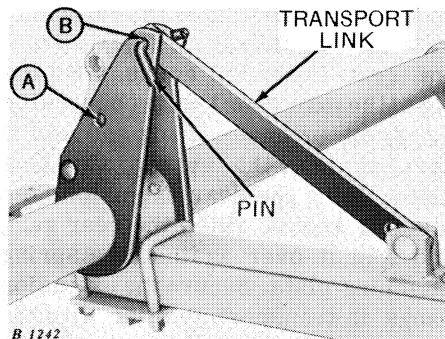
CAUTION: When transporting the finishing harrow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



Lock the tractor drawbar in a fixed position when transporting the harrow. Do not transport the harrow over 12 miles per hour on a smooth surface road, and reduce the speed considerably when traveling over rough ground.

Transport link

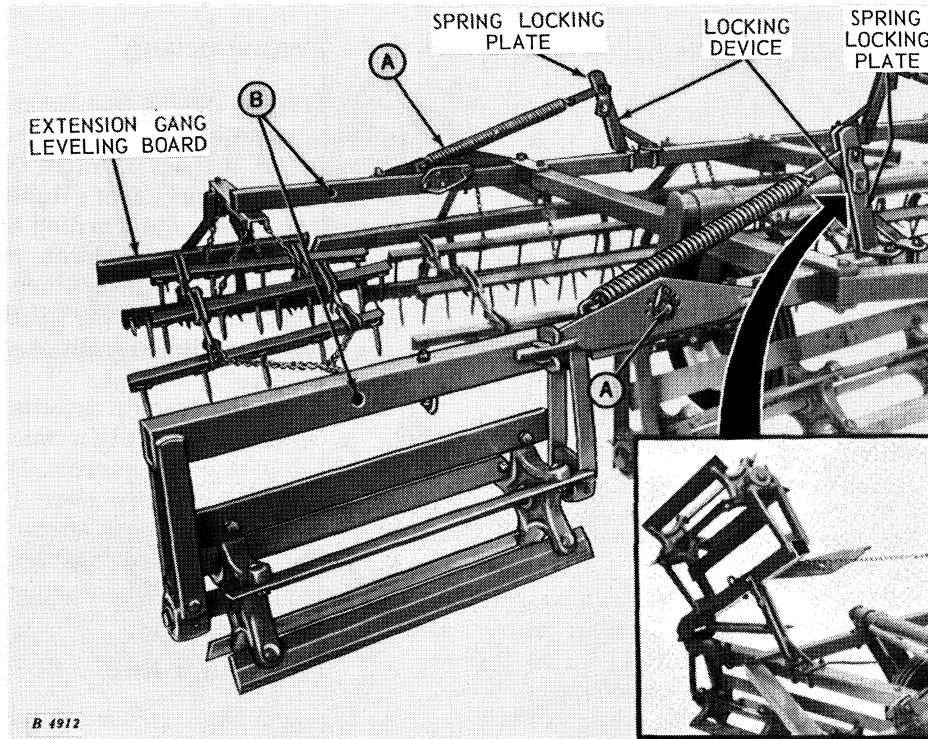
The transport link is used to hold the harrow in a raised position for transporting or storage when the hydraulic cylinder is removed.



To put the harrow in transport position: (1) Fully extend the remote hydraulic cylinder, (2) Remove the pin from hole "A," line up the slotted hole in the end of the transport link with hole "B," and install the pin. The cylinder can then be removed, and the harrow will stay in the raised position.

4 Operation

Transporting—Continued



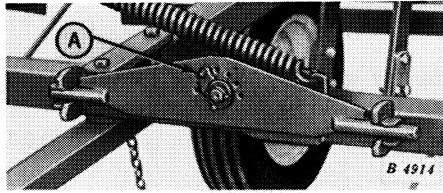
Remove extension locking bars from locking position "A" on front and rear gangs. Install extension locking bars in hole "B" in the front and rear extension gangs. With the aid of the extension locking bar, raise the front extension gang and fold it over against the spring attaching plate. Using the rear extension gang leveling board, raise the rear gang and fold it over against the spring attaching plate. Secure the extension gangs in transport position with the safety strap and quick-lock pin.

NOTE: The above procedure applies to both BF and BFT Finishing Harrows with extension gangs.



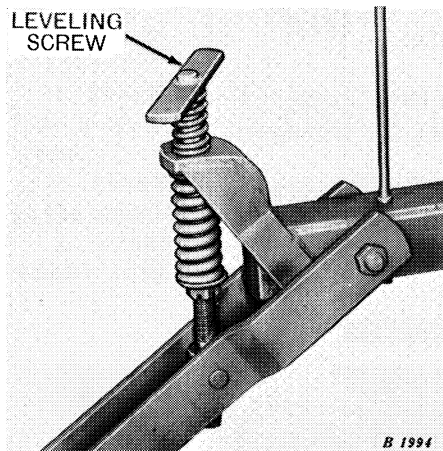
CAUTION

1. Extension gangs have spring lift. Stand clear when folding for transport.
2. Always secure extension gangs in transport position with locking device.



The extension gangs may be adjusted up or down. To adjust each gang, remove the locking bar and bolt "A." Rotate the leveling cam clockwise to lower extension gang or counterclockwise to raise extension gang. Replace bolt "A," and the locking bar.

Leveling screw adjustment



Adjust the leveling screw on the harrow drawbar as follows to obtain satisfactory operation:

Shortening the leveling screw (turning clockwise) will raise the leveling board and increase the penetration of the cutter blade or spring teeth assemblies. Lengthening the leveling screw (turning counter-clockwise) will lower the leveling board and decrease the penetration of the cutter blade or spring teeth assemblies.

Depth of penetration

The depth of penetration is controlled by the remote cylinder control lever of the tractor. The transport wheels will act as gauge wheels to regulate the working depth of the harrow. After determining the correct working depth as regulated by the transport wheels, position stop on remote cylinder so transport wheels raise to same position each time. See tractor operator's manual.

CAUTION: Do not make sharp turns with harrow in operating position.



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Safety suggestions

Be careful when operating the finishing harrow, to avoid injury.

Only one person - the operator - should be permitted on the tractor platform while tractor and finishing harrow are in operation.

Never ride or permit others to ride, on the drawbar of the tractor or on the finishing harrow.

Refuel the tractor only when the engine has been shut off. Do not

smoke or use an oil lantern when working around inflammable fuel, especially when refueling the tractor.

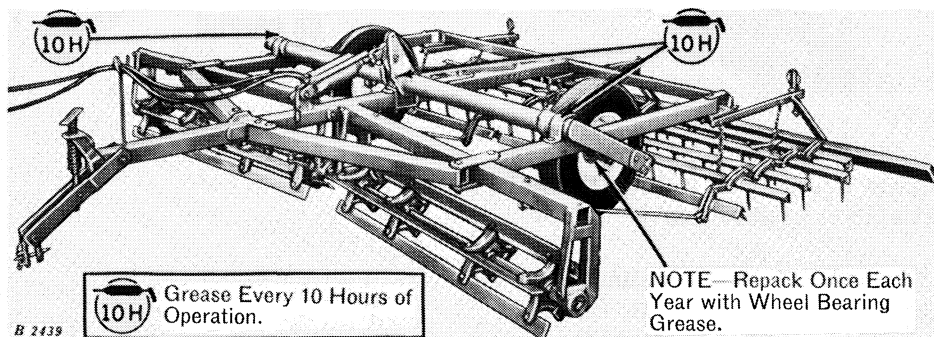
When transporting the finishing harrow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



CAUTION

1. Extension gangs have spring lift. Stand clear when folding for transport.
2. Always secure extension gangs in transport position with locking device.

Lubrication



Wipe dirt from fittings before greasing. If a grease fitting is lost, replace it immediately. Lubricate all parts thoroughly, with a SAE Multi-purpose type grease, but avoid excessive lubrication. Excess lubricant gathers dust.

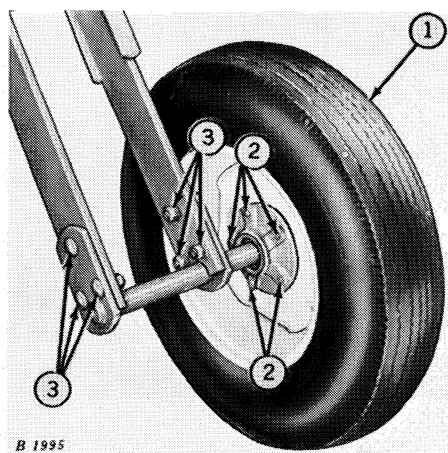
Oil all pivot points of power control parts and drawbar.



CAUTION: Do not oil or grease a machine while it is in motion.

Assembly

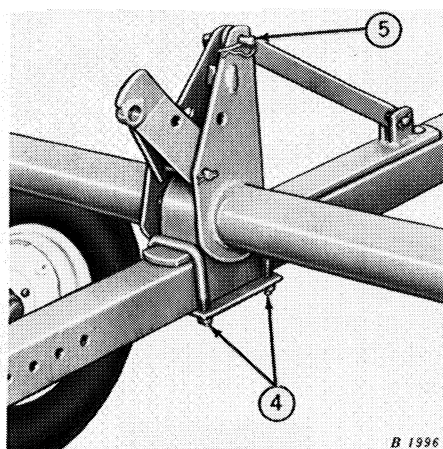
Wheel frame and cutter blade assemblies



1. Mount the tires on the wheels. Use 7.50 x 14 or 8.00 x 14-inch tires.

2. Attach the wheels with tires to the wheel hub.

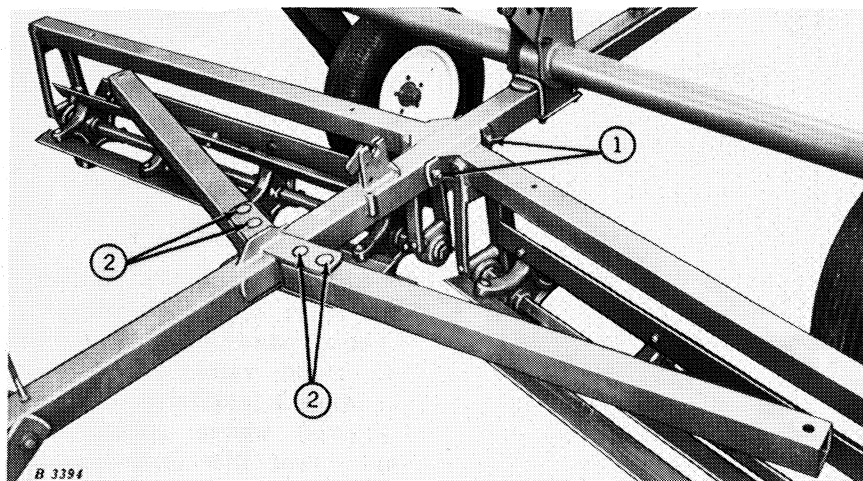
3. Attach the wheel and axle assembly to the wheel frame.



4. Attach the wheel frame to the center section of the main frame.

5. Attach the transport link to the wheel frame.

Gangs—BF Only

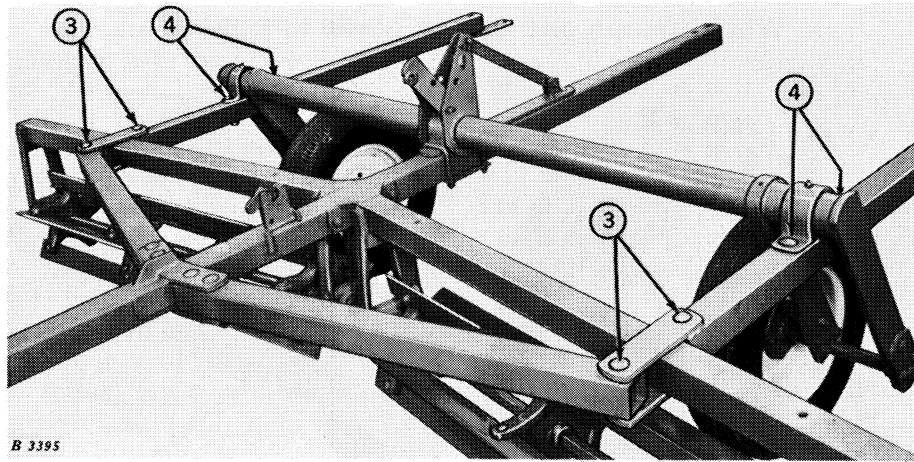


1. Bolt the cutter blade assembly and frame to the center section of the main frame.

2. Bolt the front main frame sections to the center section of the main frame.

8 *Assembly*

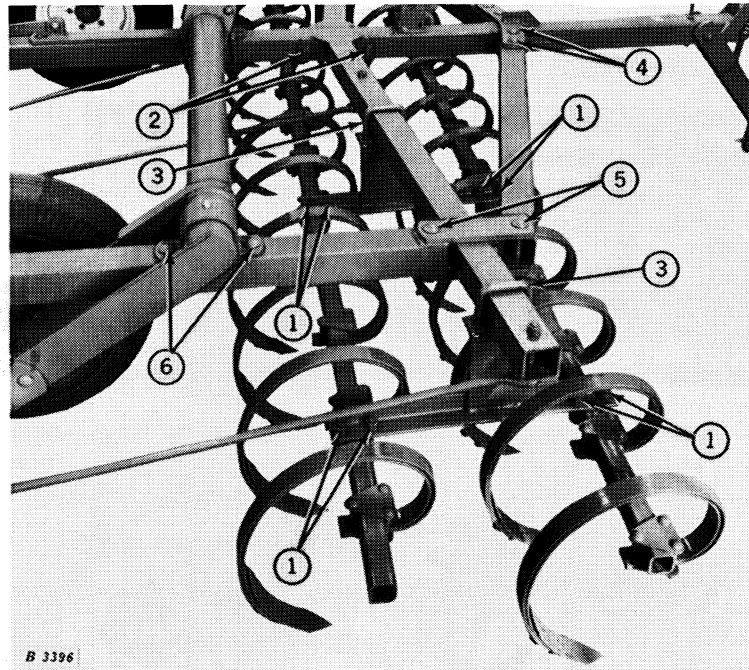
Gangs—BF Only—Continued



3. Slide the side main frame sections through the wheel frame and bolt them to the front main frame sections.

4. Place the wheel frame bearings over the wheel frame and bolt them to the side section of the main frame.

Gangs—BFT Only



1. Attach spring-tooth gangs to support angles.

2. Attach gang frames to center section of main frame.

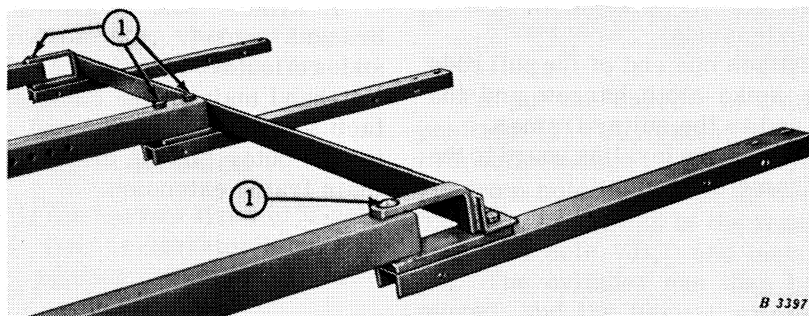
3. Assemble gang frames to spring-tooth gangs by bolting support angle plate to gang frame.

4. Bolt front main frame sections to center section of main frame.

5. Slide the side main frame sections through the wheel frame and bolt them to the front main frame.

6. Place the wheel frame bearings over the wheel frame and bolt them to the side section of the main frame.

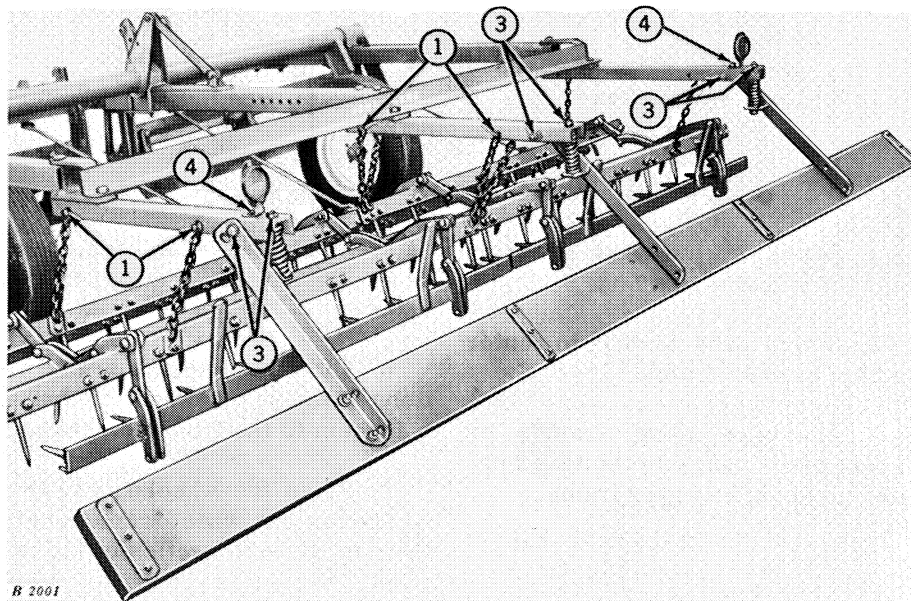
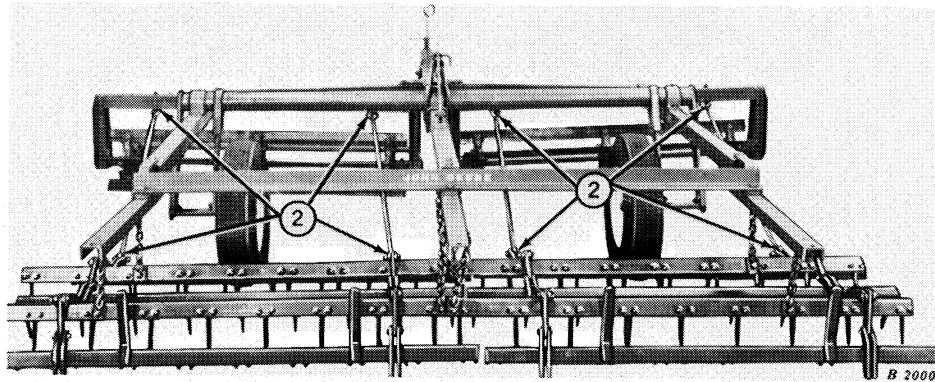
Rear Main Frame



1. Attach the extension to the side and center sections of the main frame.

10 Assembly

Spike-tooth harrow and leveling board



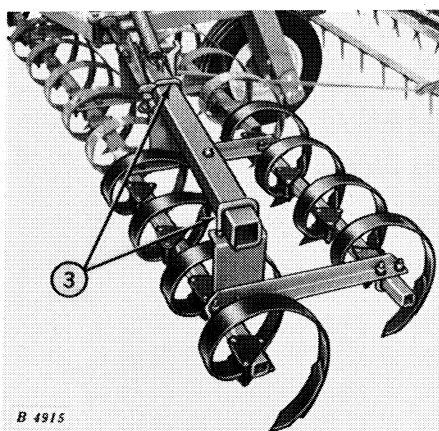
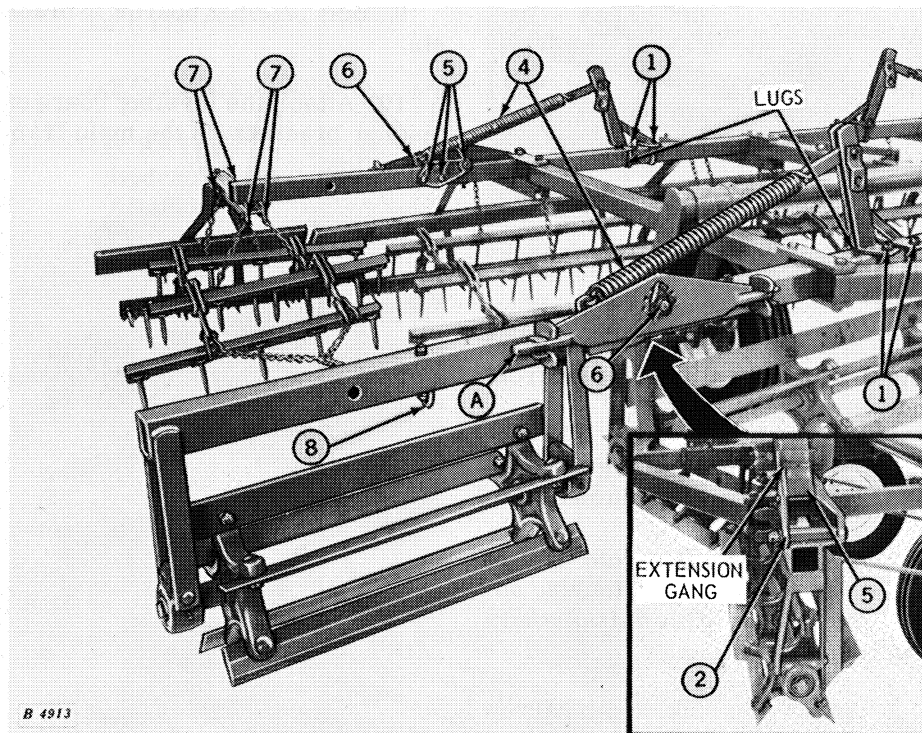
1. Attach the spike-tooth harrow to the extensions.

2. Attach one end of the pull rods to the spike-tooth harrow and the other end to the cutter frames.

3. Attach the leveling board to the main frame extension.

4. Attach the warning lamp bracket socket, reflector bracket, and reflector to outer end of the left-hand main frame extension. Attach a reflector bracket and reflector to outer end of the right-hand main frame extension.

Extension Gangs



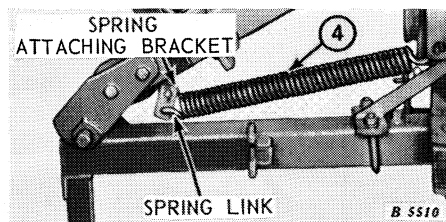
Attaching spring tooth extensions

1. Install the extension gang support on the front and rear gang frames. The U-bolts must be positioned between the lugs shown above.

2. Install the extension gangs on the pivot pins which are welded to the end of gang.

3. BFT Harrow Only—Assemble extension gang frames to spring tooth extension gangs by bolting support angle plate to gang frame with U-bolts.

Extension Gangs—Continued



4. Attach the spring links and the springs.

5. Slip the plates over the pivot pins and bolt them in place on front and rear gangs.

6. Install the extension gang locking bar. Insert locking pin as shown.

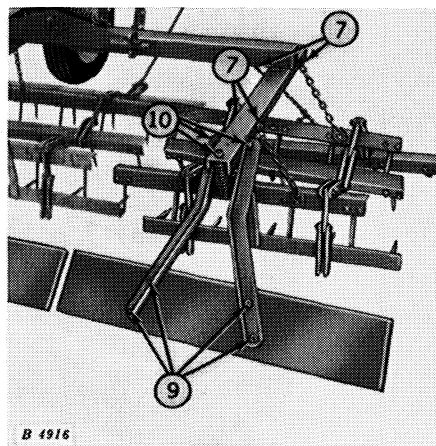
NOTE: Be sure that hole "A" on the end of the extension locking bar is to the outside of the finishing harrow gang.

7. Attach the spike-tooth harrow extensions to the main frame extensions.

8. Attach spike-tooth harrow extensions pull chain to J-bolt on front extensions.

9. Bolt leveling boards to brackets.

10. Attach the leveling board extension brackets to the main frame extension.



INFORMATION ABOUT UNITED STATES AND CANADIAN WARRANTY

The warranty on this machine or equipment comes from your John Deere dealer and is contained in the purchase agreement you sign. If you are purchasing the machine or equipment new, the dealer's warranty ordinarily contains the following provisions.

He agrees to replace parts which prove defective with normal and proper use within:

TWELVE MONTHS from date of delivery to you or FIFTEEN HUNDRED HOURS of use (whichever occurs first) unless the machine or equipment is sold for industrial, construction or logging use.

SIX MONTHS from the first day of the month in which you first use the machine or equipment or FIFTEEN HUNDRED HOURS of use (whichever occurs first) if the machine is sold for industrial, construction or logging use.

He has no obligation to replace parts whose failure is related to modification or alteration of this machine or equipment in ways not recommended by the manufacturer. It is your obligation to bring the machine or equipment to his service shop or, if this is not possible, to reimburse him for his travel expense in fulfilling the warranty.

The dealer's warranty in the purchase agreement ordinarily does not cover batteries, rubber tires, engines not of John Deere manufacture or used machines or equipment, and there is no warranty or other obligation on such items unless your dealer has delivered to you a certificate or other written statement which is separate from the purchase agreement and is designated "Warranty."

Certain other limitations on the obligation of the dealer and of others may be contained in the warranty in your purchase agreement.

Be sure to read the "Warranty and Agreement" in your purchase agreement, or your separate "Warranty," as there is no other warranty obligation, express or implied, including the implied warranties of merchantability and fitness, on this machine or equipment.

Note: The above summary of the provisions ordinarily found in the dealer's warranty was correct on the date of printing of this manual. The warranty you actually receive governs in case of any inconsistency with the summary.

