

F500 SERIES INTEGRAL HARROW AND HARROW SECTIONS



OPERATORS MANUAL F500 SERIES INTEGRAL HARROW AND HARROW SECTIONS

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LITHO IN THE U.S.A.
ENGLISH





To The Purchaser

Your new F500 Series Integral Harrow Drawbar and Harrow Sections were carefully designed and manufactured to give years of dependable service. To keep it operating efficiently, 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 "Contents" to learn where each section is located.



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.

In addition to the equipment furnished with your drawbar and harrow sections, attachments are available to help you do a better job in special conditions. These are described in the special equipment 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 the machine will travel when in use.

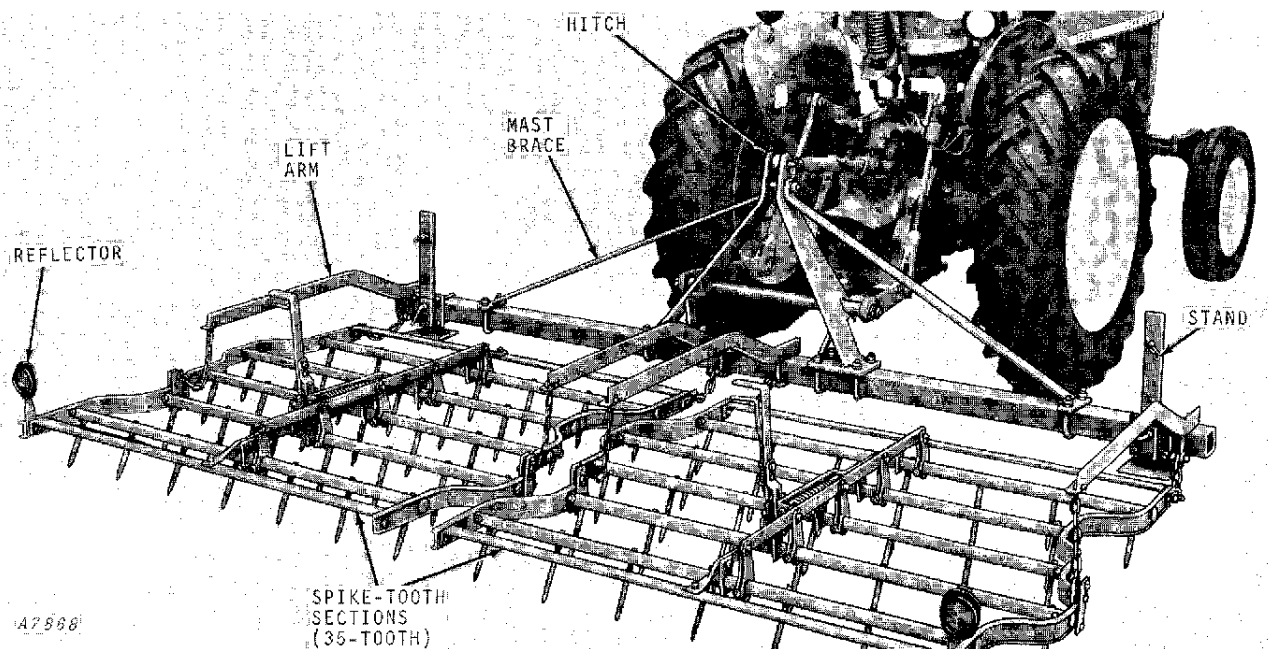
Record your harrow drawbar serial number in the space provided on page 58. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your harrow drawbar requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on the drawbar and harrow sections appears on your copy of the purchase order which you should have received from your dealer when you purchased the harrow drawbar.

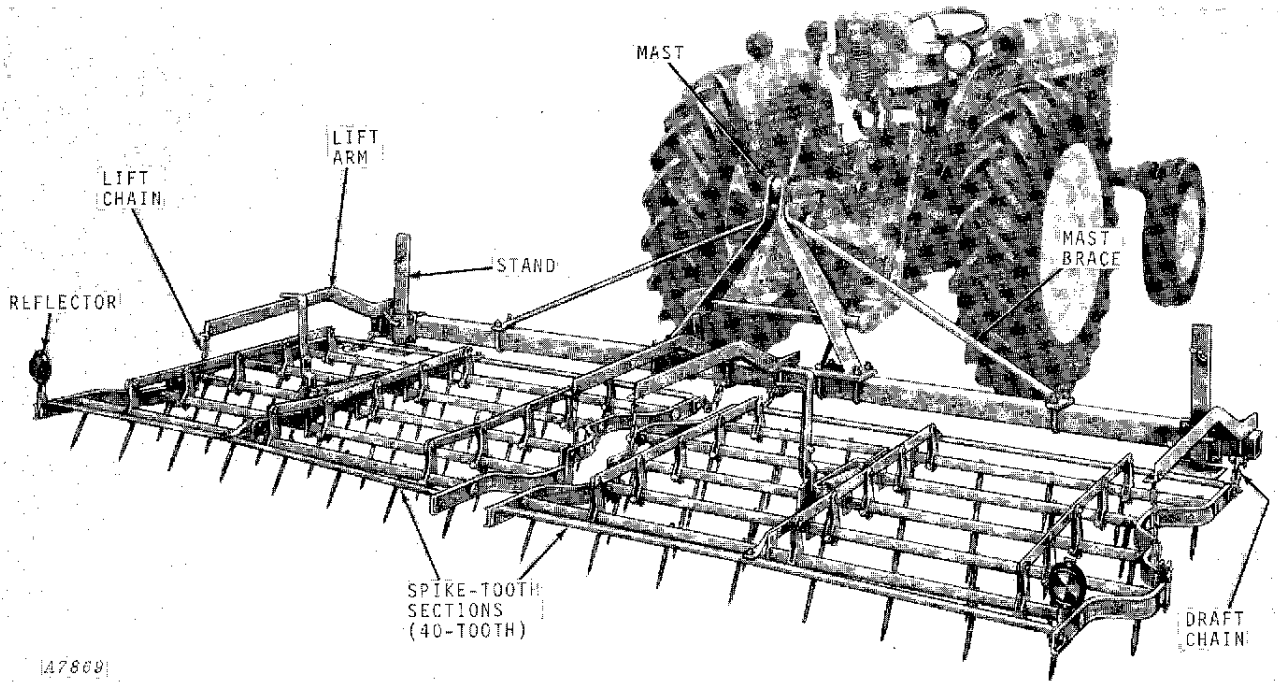


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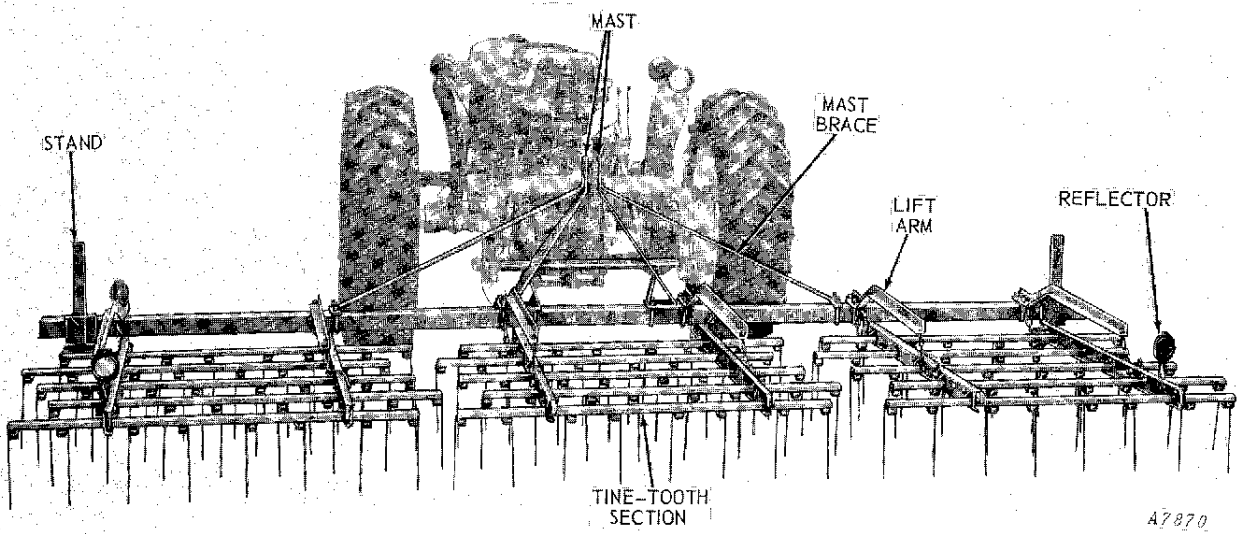
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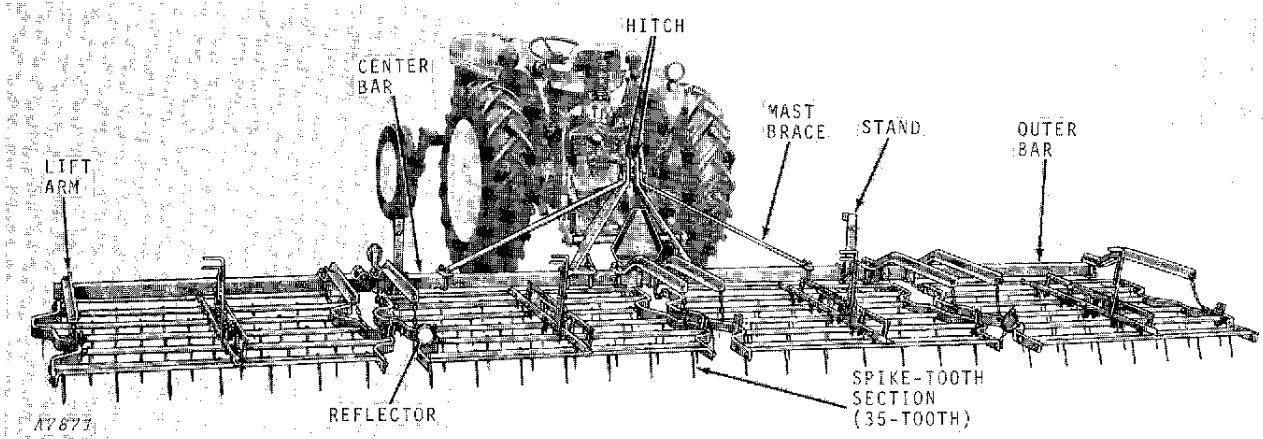
John Deere F501A Drawbar with Two 5-Foot 3-Inch Spike-Tooth Harrow Sections



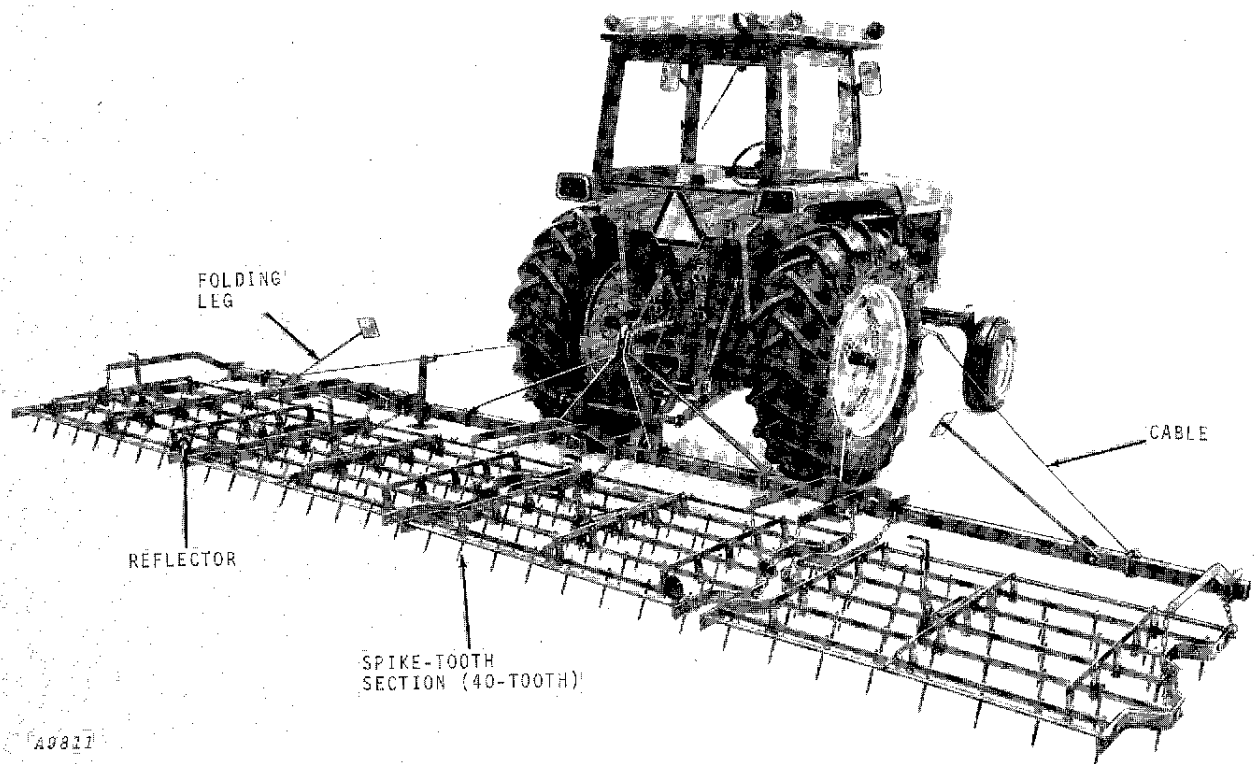
John Deere F502A Drawbar with Two 6-Foot Spike-Tooth Harrow Sections



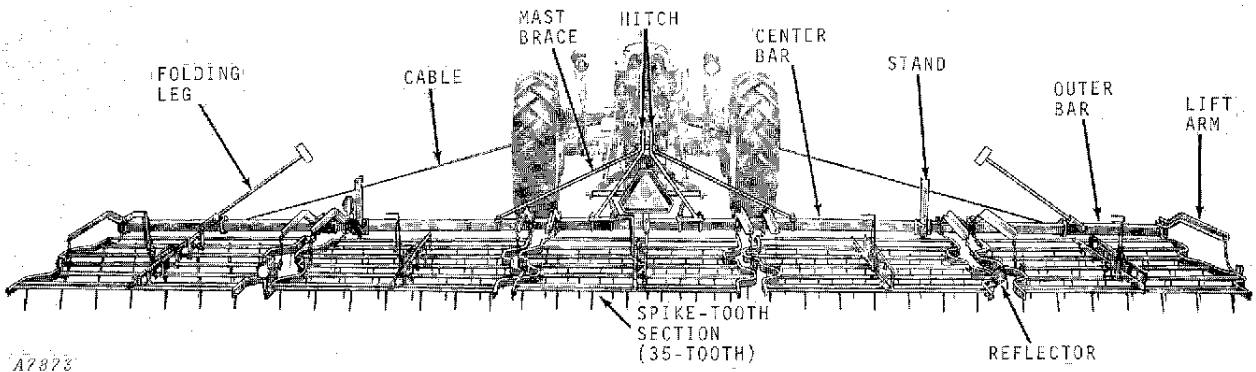
John Deere F503B Drawbar with Three Tine-Tooth Harrow Sections



John Deere F504A Drawbar with Four 5-Foot 3-Inch Spike-Tooth Harrow Sections
(SMV Emblem, Special Equipment)

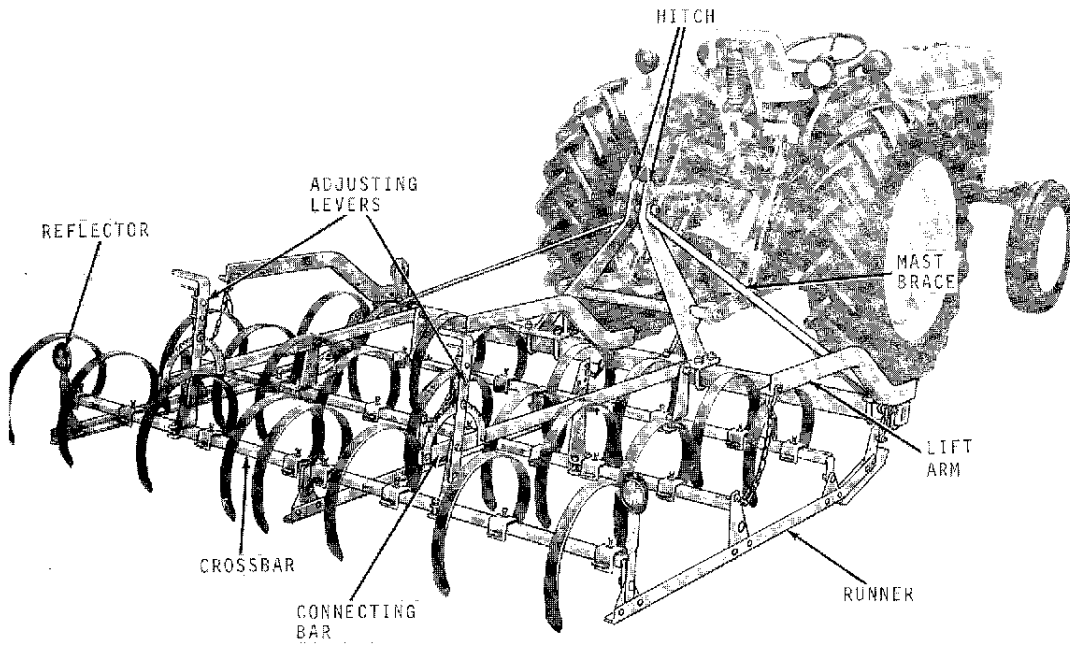


John Deere F505B Drawbar with Four 6-Foot Spike-Tooth Harrow Sections



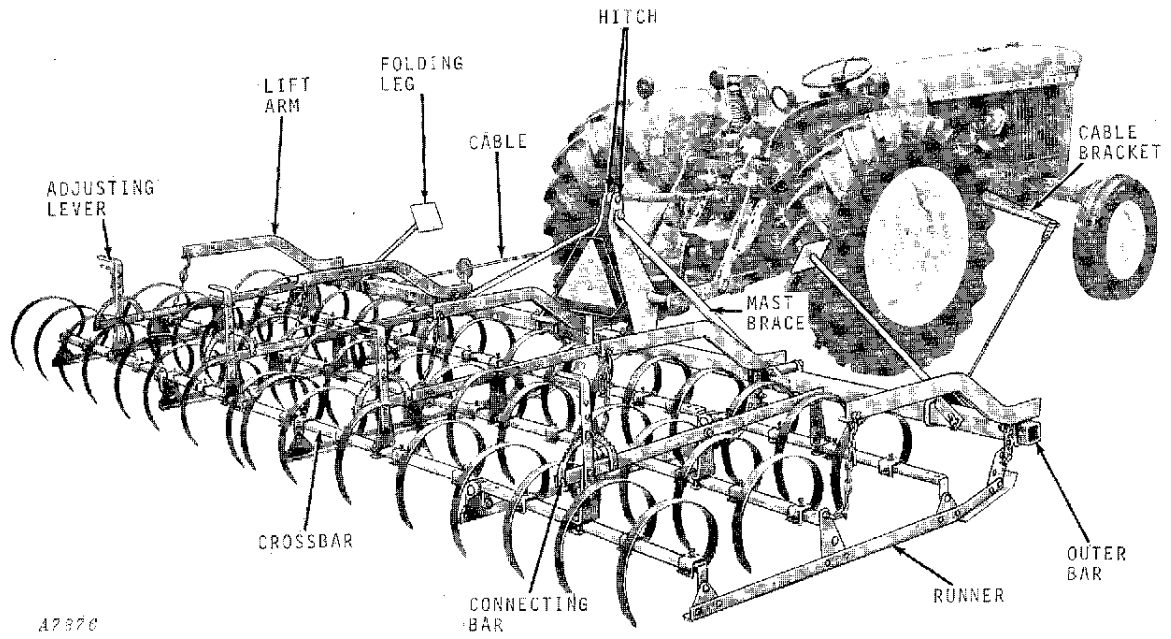
A7873

John Deere F506B Drawbar with Five 5-Foot 3-Inch Spike-Tooth Harrow Sections
(SMV Emblem, Special Equipment)



A7874

John Deere F507A Drawbar with Two 4-Foot Spring-Tooth Harrow Sections



A2970

*John Deere F509B Drawbar with Four 4-Foot Spring-Tooth Harrow Sections
(SMV Emblem, Special Equipment)*



Operation

GENERAL

Your new integral harrow drawbar and harrow sections are designed to handle a variety of tillage jobs.

The tine-tooth harrow may be used on plowed ground for final preparation of the seedbed. It also may be used for first cultivation of small plants to break the crust and pick out small weeds. Operate at the speed best suited for the conditions.

The spike-tooth harrow may be used for seedbed finishing, crust-breaking, weeding, and other tillage jobs. Operate at the speed which will do the best job under your conditions.

The spring-tooth harrow may be used for making deep and uniform seedbeds, killing weeds, clod mulching, breaking heavy crust, renovating alfalfa, orchard cultivation, and other jobs of similar nature.

The following instructions will help you obtain the best possible performance from your new integral harrow drawbar and attachments. Read them carefully.

PREPARING THE DRAWBAR AND HARROW SECTIONS

Before starting to work with a new harrow drawbar and harrow sections, check to see that all bolts and nuts are tight and all cotter pins are spread to keep them from falling out. After one hour of operation retighten all bolts and nuts. Loose bolts or lost cotter pins can cause excessive wear or serious damage.

For proper torque see "Service", page 27.

PREPARING AND ADJUSTING TRACTOR

General

For complete tractor operating instructions, refer to your tractor operator's manual.

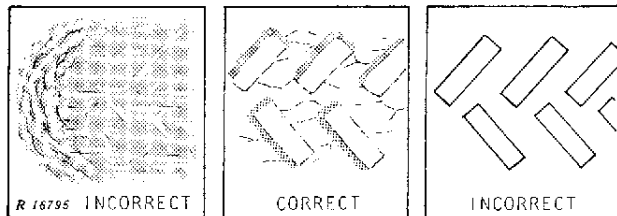
Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual.

Rear Wheel Weighting

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights **should not** be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor.

The ideal amount of added weight can be determined by observing the tracks of the rear wheels. When the tractor is pulling its rated load, the soil between the tire lugs should be broken or shifted. If too much weight has been added, the tread marks will be clear and distinct. If too little weight has been added, the tread marks will be entirely obliterated.



Tire Tread Patterns

Liquid Weights

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

Cast-Iron Weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.

For maximum ballast, refer to your tractor operator's manual.

Preparing 820, 1010, and 1020 Tractors

Front Ballast

In average conditions front end weights are not necessary. In those conditions where it becomes necessary to add weight to the front end of the tractors, see your tractor operator's manual for weighting instructions, and page 11 of this manual.

Tractor Drawbar

Set the tractor drawbar in the short position.

3-Point Hitch and Hydraulic System

The 3-point hitch provides a fast, easy means of attaching the drawbar to the tractor. Once the harrow drawbar is attached, the hydraulic system provides full precision control to raise and lower your harrow drawbar hydraulically.

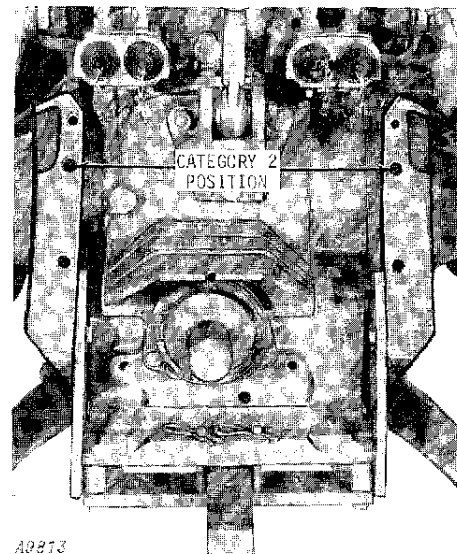
See your tractor operator's manual for complete explanation of the 3-point hitch and hydraulic system.

Sway Blocks (820 and 1020 Tractors)



The sway blocks must be set in the upper position.

When using an 820 or 1020 Tractor with an F501A, F502A, F503A, F504A, F507A or F508A Harrow Drawbar, the sway blocks must be set in the upper Category I (narrow) position as shown above.



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When using a 1020 Tractor with an F503B, F504B, F505B, F506B, F508B or F509B Harrow Drawbar, the tractor must be equipped with a Category II 3-point hitch and the sway blocks must be set in the upper Category II (wide) position as shown above. This setting eliminates side sway when the harrow drawbar is raised for transport but permits lateral flexibility when working.

Load Control Yoke (1010 Tractor)

Attach the center link in the top set of holes in the load control yoke.

Load Control Lockout Screw (1010 Tractor)

Turn the load control lockout screw out securely against load control yoke.

Lift Links (1010 Tractor)

Attach the lift links to the inner holes in the rockshaft lift arms.

Parallel Lift Arm Operation (1010 Tractor)

If tractor is equipped with a dual hydraulic system, adjust the system so integral cylinders are parallel and so lift arms will operate together to obtain maximum lifting capacity.

Rockshaft Selector Lever (820 and 1020 Tractors)

Set the selector lever in the "LD" position.

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