

500E SERIES INTEGRAL TOOLBAR AND 5E TOOLBAR CARRIER



JOHN DEERE

OPERATORS MANUAL 500E SERIES INTEGRAL TOOLBAR AND 5E TOOLBAR CARRIER OMN159108 F6 English

OMN159108 F6

**LITHO IN THE U.S.A.
ENGLISH**



TO THE PURCHASER



N 3211

This manual contains valuable information about your new John Deere 500E Series Toolbar. It has been carefully prepared and illustrated. In it, you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating and servicing your new toolbar. You will also find information about tools and attachments for adapting your toolbar to work properly in all types of field conditions.

Your new toolbar was built to rigid manufacturing standards. Ma-

terial and workmanship are the best. Precision production methods and accurately controlled heat-treating assure maximum strength and long life for every part.

Keep this manual in a convenient place for quick and easy reference. Study this manual carefully. You have purchased a dependable and sturdy implement, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Sometime in the future, your toolbar may need new parts to replace those that are worn or broken. If so, go to your John Deere dealer. Provide him with the number of your toolbar and the date purchased. Record this information in the space provided below, so it will be readily accessible when it is needed.

LOCATION REFERENCES

Right-hand and left-hand references are determined by standing at the rear of the toolbar and facing in the direction of travel.

JOHN DEERE 500E SERIES INTEGRAL TOOLBAR

No. of Toolbar

No. of Tool Equipment

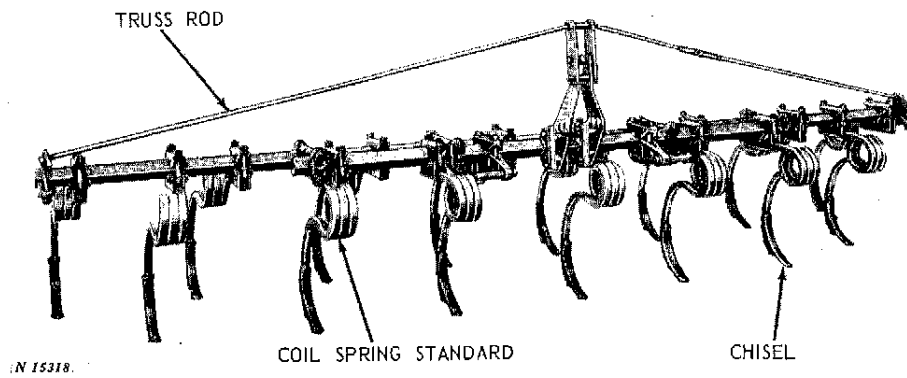
Date Purchased19. . . .

(To be filled in by Purchaser)

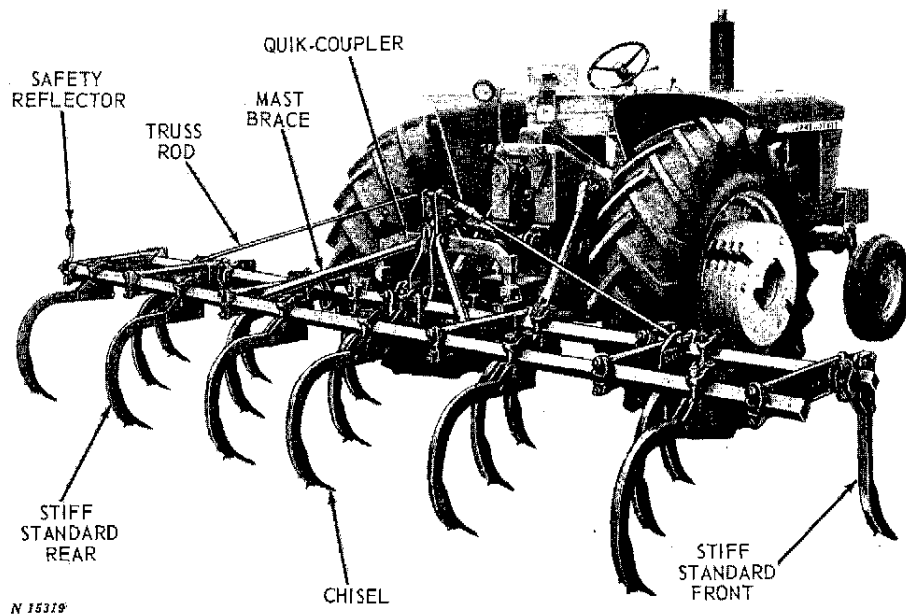
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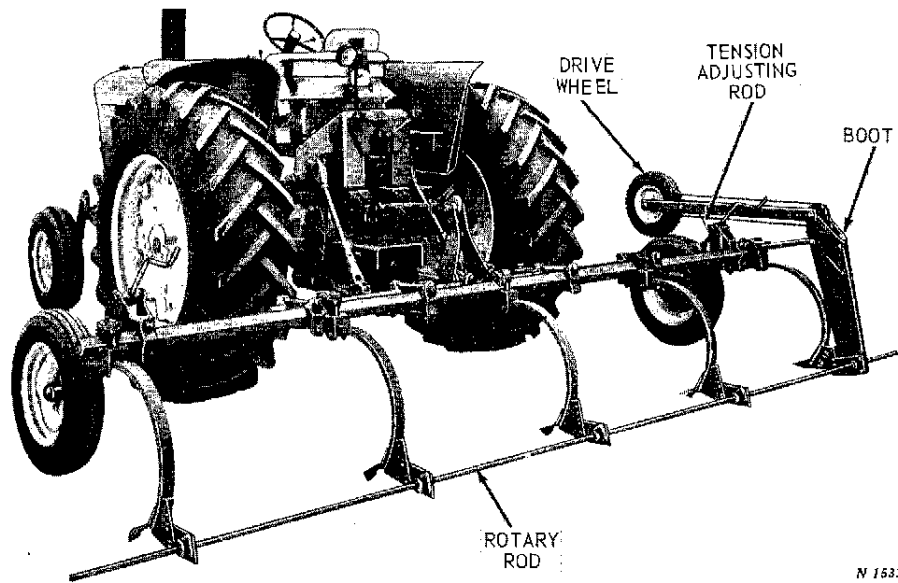
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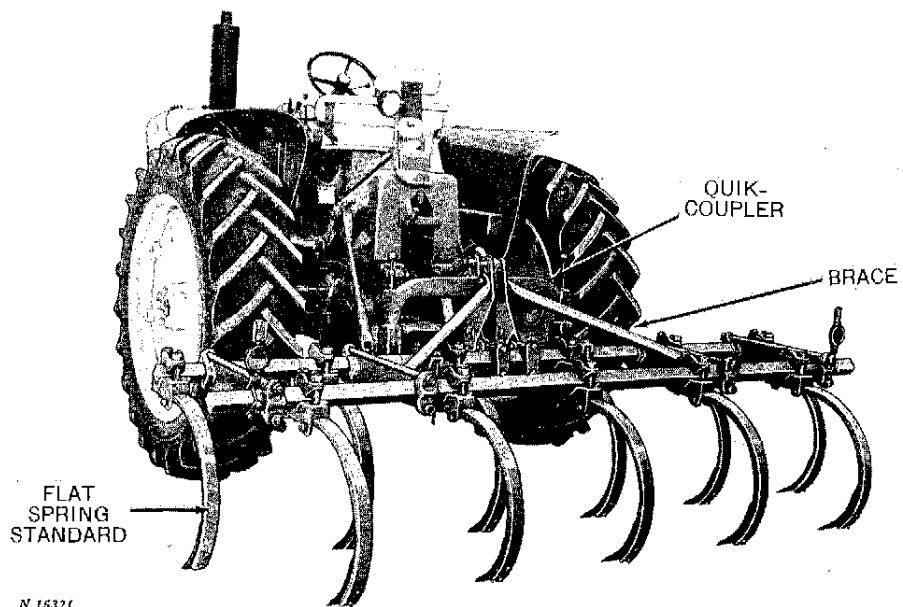
John Deere 514E Toolbar with TE-106 Tool Equipment



John Deere 526E Toolbar with TE-175 Tool Equipment



John Deere 514E Toolbar with 1514 Rod Weeder Attachment



John Deere 520E Toolbar with TE-34 Tool Equipment

SPECIFICATIONS

- 510E —Single Toolbar, 10-foot long
- 512E —Single Toolbar, 12-foot long
- 514E —Single Toolbar, 14-foot long with 8-foot reinforcing bar and truss rod
- 516E —Single Toolbar, 16-foot long with 10-foot reinforcing bar and truss rod
- 518E —Single Toolbar, 8-foot long
- 520E —Double Toolbar, 10-foot long
- 522E —Double Toolbar, 12-foot long
- 524E —Double Toolbar, 14-foot long
- 526E —Double Toolbar, 16-foot long with truss rod
- 528E —Double Toolbar, 8-foot long
- 580HE—Heavy-Duty Single Toolbar, 10-foot long with 8-foot reinforcing bar
- 582HE—Heavy-Duty Single Toolbar, 12-foot long with 8-foot reinforcing bar

TRACTOR REQUIRED

The size of the tractor to be used will depend upon the ground condition, size of the toolbar and the number of standards used on the toolbar. The tractor must be equipped with a Category 1 or Category 2, 3-point hitch.

TOOL EQUIPMENT

Flat Spring Standards

Flat Cushion Spring Standards

Coil Spring Standards, 1-inch and 1-1/4-inch

Stiff Standards

Sub-Surface Sweep Standards

A variety of chisels and sweeps can be used on these standards.

SPECIAL EQUIPMENT

GAUGE WHEELS

TE-49—Clamp-Adjusting Semi-Pneumatic Gauge Wheels (4 x 16-Inch Tires)

TE-50—Clamp-Adjusting Pneumatic Gauge Wheels (5.90 x 15 Tires or less tires)

TE-51—Crank-Adjusting Pneumatic Gauge Wheels (5.90 x 15 Tires or less tires)

TE-207—Crank-Adjusting Pneumatic Gauge Wheels (5.90 x 15 Tires or less tires)

HITCH PARTS

Hitch Pin Parts for tractors with Category 1 hitch.

Hitch for Hi-Crop Tractors.

Hitch Pin Supports for heavy draft loads.

BAR SPACERS

6-1/2-Inch size

TRUSS RODS

For 522E and 524E Toolbars

ROLLING COULTERS

For use with subsurface standards.

CHISEL ADAPTERS

For use with subsurface standards.

PLANTING ATTACHMENTS

PA800 Series, 71 Series Flexi-Planters, and 23R, 24B, and 25B Series Unit Planters; all available with wide choice of optional and extra equipment.

1000 SERIES ROD WEEDER

For 512E, 514E, 516E, 520E, 522E, 524E, 526E, 528E, and 582HE Toolbars.

3000 SERIES ROD WEEDER

For 512E, 514E, 516E, 520E, 522E, 524E, 526E, 528E, and 582HE Toolbars when mounted on 3010, 3020, 4010, and 4020 Tractors.

NO. 1 HEAVY-DUTY ATTACHMENT

For 510E and 512E Toolbars

NO. 2 LISTED CROP CULTIVATOR ATTACHMENT

R26 HILLING ATTACHMENT

For 514E, 516E, 524E and 526E Toolbars.

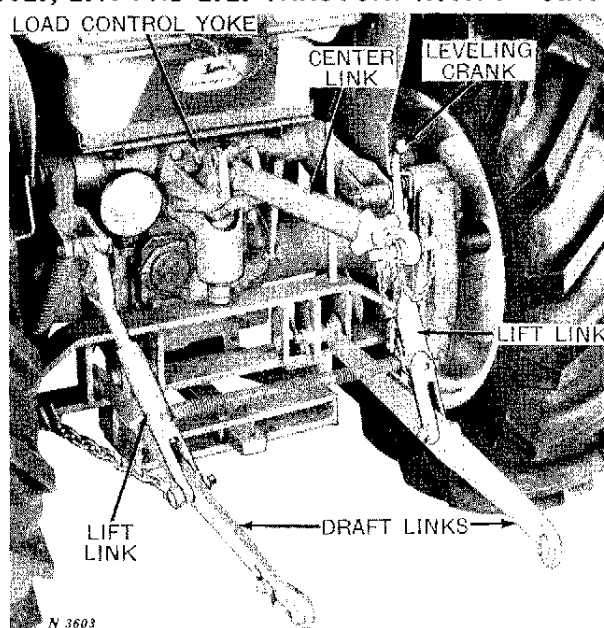
5E TOOLBAR CARRIER

Hitch mast and hitch pin brackets, Category 1 or 2, for use with 2 or 2-1/4-inch toolbars with various tillage attachments.

(Specifications and design subject to change without notice.)

OPERATION

1010, 1020, 2010 AND 2020 TRACTORS WITH 3-POINT HITCH



1010 Tractor

WHEEL SPACING

Set the tractor wheels for the spacing required. See pages 38 to 63. The wheels must be spaced equidistant from the center of the tractor. Refer to your tractor operator's manual for instructions on how to change the rear wheel spacing.

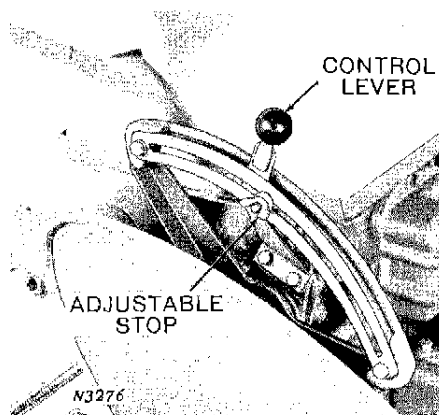
TIRE INFLATION

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

FRONT END WEIGHTS

Additional front end weight for the tractor is required with the toolbar. The exact amount will depend upon the ground conditions and the tool equipment used.

CONTROL LEVER



The control lever, located at the right of the tractor seat, provides manual control of the toolbar through the tractor rockshaft.

DUAL HYDRAULIC SYSTEM

If 1010 or 2010 tractor has a dual hydraulic system, set it for parallel lift arm operation. See your tractor operator's manual.

LOAD AND DEPTH CONTROL WITH GAUGE WHEELS

Use gauge wheels to determine operating depth for light draft loads or when using sweeps. Move the control lever to the extreme forward position to allow the toolbar to follow ground contours on gauge wheels.

On 1020, 2010 and 2020 Tractors, place the selector lever in the "D" position.

On 1010 Tractor, place center link in the least sensitive hole and turn the lockout screw out against the load control yoke.

CAUTION: Do not use the gauge wheels to determine operating depth for heavy draft loads.

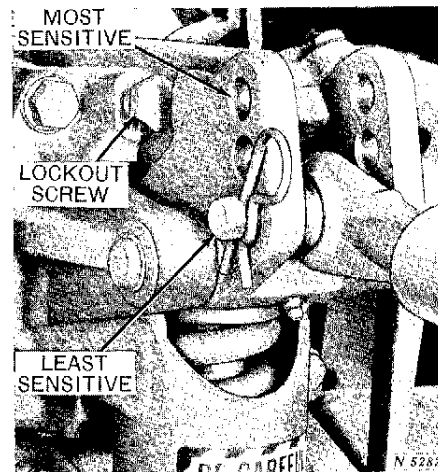
For heavy draft loads, adjust the gauge wheels for only light contact with the ground and set tractor hydraulic system for use without gauge wheels.

LOAD AND DEPTH CONTROL WITHOUT GAUGE WHEELS

Use the adjustable depth stop on hydraulic control lever quadrant to regulate working depth.

Load-and-Depth Control actuates the rockshaft system automatically, regulating the toolbar working depth over uneven ground and compensating for the effect of ridges and depressions.

On 1020, 2010 and 2020 Tractors, place the selector lever in the "LD" position.



On 1010 Tractor, place the center link in the most sensitive hole. Turn the lockout screw in against the rear of the tractor.

SWAY BLOCKS

Place sway blocks in the high position to prevent toolbar sway during transport. See tractor operator's manual.

CENTER LINK

Set the center link to its normal length. Then lengthen or shorten the link as required to level the toolbar from front to rear.

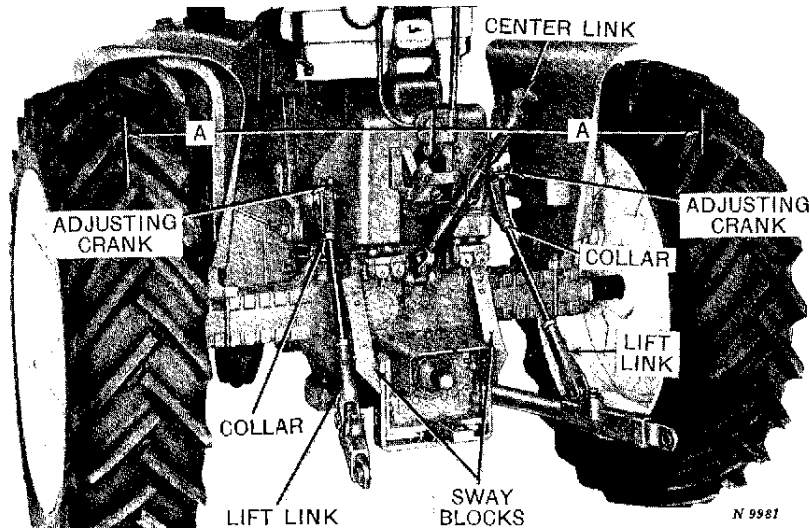
LIFT LINKS

Pin the upper end of the lift links in the inner holes in the rockshaft lift arms.

Set the lift links in their normal length. See your tractor operator's manual. Adjust the right-hand link so the toolbar is level.

8 Operation

2510, 3010, 3020, 4010 AND 4020 TRACTORS WITH 3-POINT HITCH



TRACTOR WHEELS AND HITCH

Set the tractor wheels at 72-inch or 56-inch spacing as shown on pages 38 through 63. Locate sway blocks in the category 2 upper position as illustrated.

See your Tractor operator's manual for complete tractor operating and adjusting instructions.

FRONT END WEIGHT

Additional front end weight on the tractor is required with all models of the 500E Toolbar. The exact amount will depend upon the model of the tractor, ground conditions and tool equipment used.

LEVELING TOOLBAR

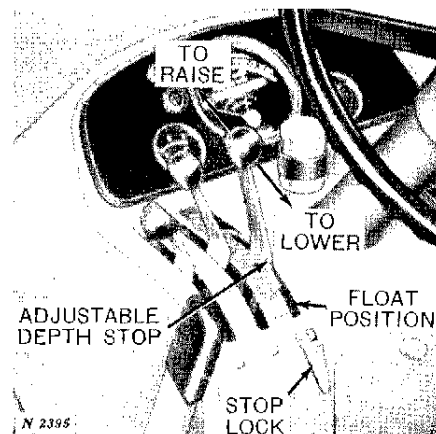
To level the toolbar fore-and-aft, adjust the center link.

To level the toolbar laterally,

turn the adjusting crank on either lift link.

Lift links should be adjusted to provide sufficient ground clearance for transporting.

CONTROL LEVER



The control lever provides manual control of the toolbar through the hydraulic system.

With Gauge Wheels

Use gauge wheels to determine operating depth for light draft loads or when using sweeps. Pull the rockshaft control lever all the way back to the float position to allow the toolbar to follow ground contours on gauge wheels.

Place the selector lever in the "D" position for rockshaft floating action.

CAUTION: Do not use the gauge wheels to determine operating depth for heavy draft loads.

For heavy draft loads, place the selector lever in the "LD" position and adjust the gauge wheels for only light contact with the ground.

Without Gauge Wheels

The position of the control lever determines the normal depth of operation.

Load-and-Depth Control actuates the rockshaft system automatically, regulating toolbar working depth over uneven ground and compensating for the effect of ridges and depressions.

Place the selector lever in the "LD" (middle) position.

LENGTH OF CENTER LINK

Set the length of the center link at 27-1/2 inches on the 2510, 3010, or 3020 Tractor, and 27 inches on the 4010 or 4020 Tractor. Then lengthen or shorten the link as required to level the toolbar from front to rear.

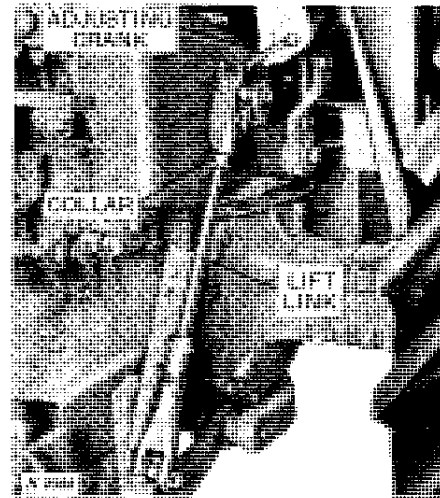
ADJUSTING LIFT LINKS

Lift links have adjusting cranks for side-to-side leveling of the toolbar.

It may be necessary to shorten or lengthen the lift links to give addi-

tional transport clearance of the toolbar or additional working depth.

On the 3010 Tractor, the lift links should be 28 inches long. On the 2510, 3020, 4010 or 4020 Tractor, the lift links should be 29 inches long.



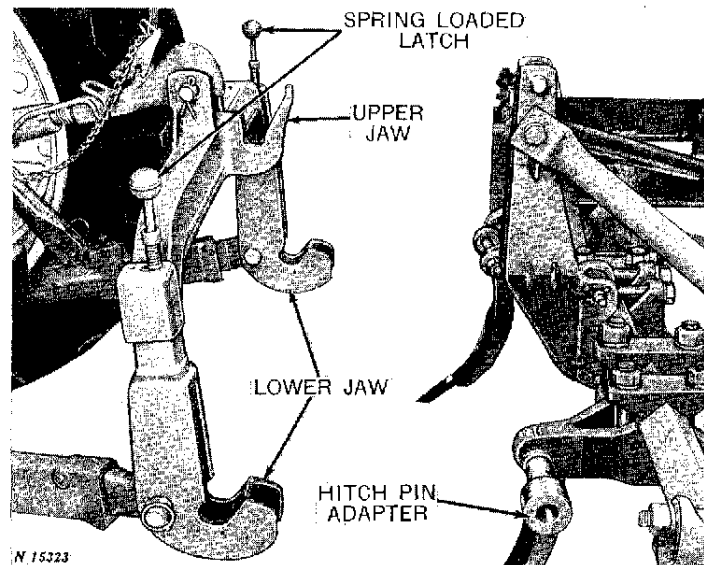
To adjust lift links, raise the adjusting crank and turn it clockwise to shorten the link or counterclockwise to lengthen it. After making the desired adjustment, drop each adjusting crank to the rear over the lock which holds it in place.

When the toolbar is equipped with gauge wheels, lower the collars on both lift links down one inch to the second hole to permit up-and-down movement of the lift links.

HI-CROP TRACTORS

On the 3020 or 4020 Hi-Crop Tractor, set the length of the center link at 23 inches, and the lift links at 40-1/2 inches. Then adjust as necessary to level the toolbar.

ATTACHING TOOLBAR TO TRACTOR WITH QUIK-COUPLER



Have the toolbar standing on a level surface. Attach the hitch pin adapters to the tool carrier hitch pins with spring pin.

Lower the 3-point hitch so the upper jaw will pass under the spacer between the tool carrier mast plates and lower jaws will pass under the tool carrier hitch pins.

Set the spring loaded latches on the Quik-Coupler in the released position.

Back the tractor until the three jaws are under their respective hitch points and raise hitch. The

lower jaws automatically lock in place.

NOTE: When the spring-loaded latches are properly locked, the indicator rod will protrude through the slot in the coupler frame adjacent to the latch rods.

The toolbar is leveled by adjusting the 3-point hitch links.

DETACHING TOOLBAR

To detach the toolbar from the tractor, lower the toolbar onto a level surface, push down on the spring-loaded latches and lower the 3-point hitch.

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