

JOHN DEERE 890 AND 890A SERIES KNIFING CULTIVATORS

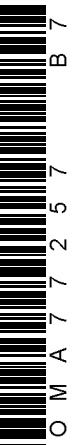


OPERATORS MANUAL JOHN DEERE 890 AND 890A SERIES KNIFING CULTIVATORS

OMA77257 B7 English

OMA77257 B7

LITHO IN THE U.S.A.
ENGLISH



YOUR NEW KNIFING CULTIVATOR

Behind your new cultivator is an organization that has designed and built farm implements for over 120 years. This cultivator was built in a John Deere factory by experienced men, many who have worked in this large plant for from ten to forty-five years, thus assuring the utmost in good design, high-grade workmanship, and thorough inspection, so essential to the production of good implements.

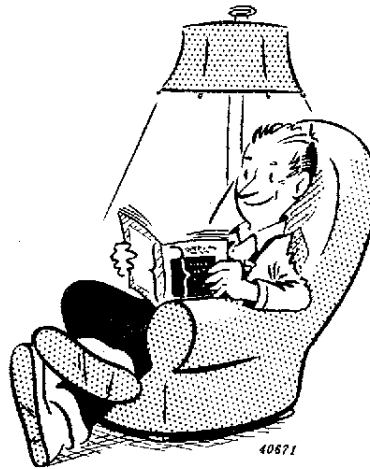
High-quality materials, precision production methods, and accurately-controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated so you may make the necessary adjustments for adapting your cultivator to work properly in practically all types of soil and field conditions. These adjustments, such as row spacings, etc., are fully covered in this manual.

Occasionally your cultivator may need new parts to replace worn parts, or require emergency service not covered in this manual. If so, we suggest that you take advantage of

the facilities offered by your John Deere dealer, which assure you of genuine John Deere Parts and prompt "know-how" service in the field or in the shop.

If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the cultivator is delivered, he can give you prompt and efficient service.



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

**JOHN DEERE 890 AND 890A
SERIES KNIFING CULTIVATORS**

Model.....

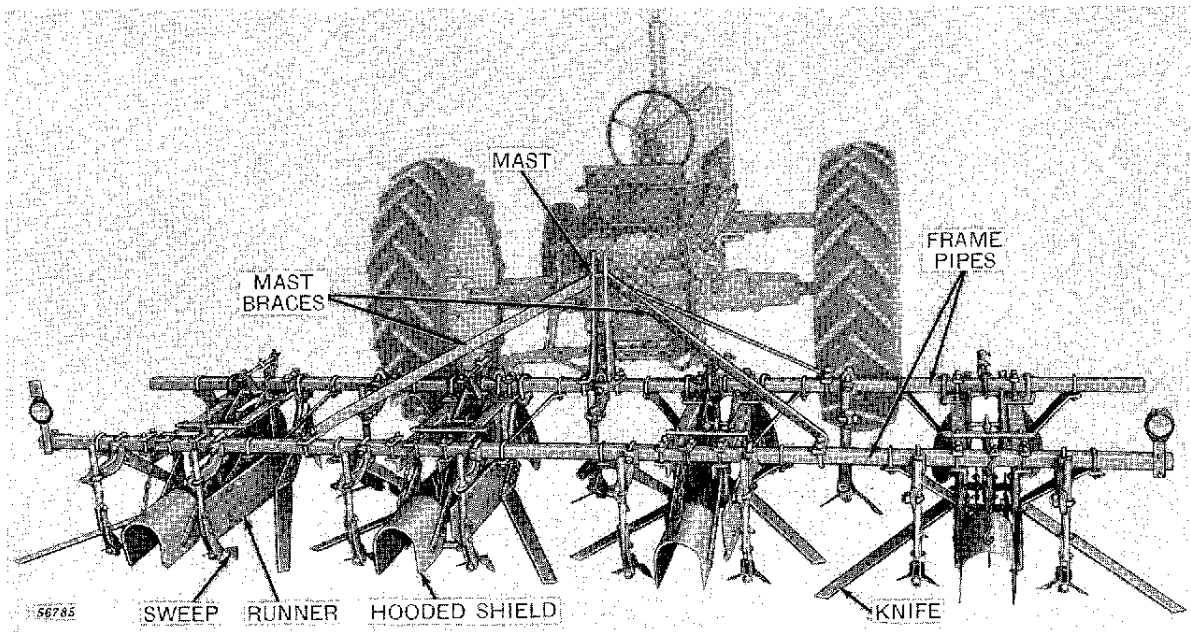
No. of Rows.....

Date Purchased.....19.....

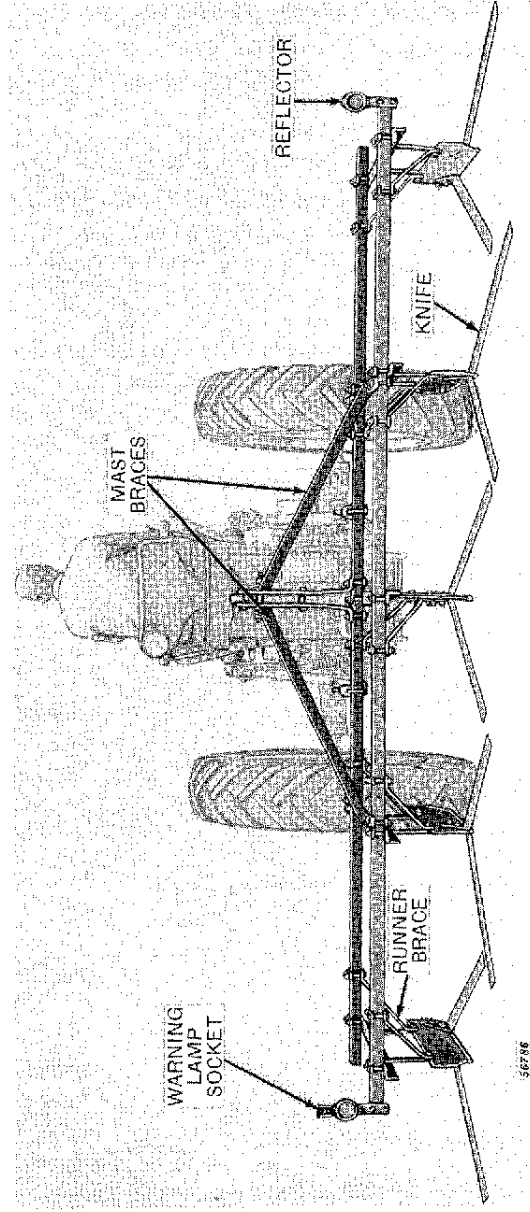
(To be filled in by Purchaser)

TABLE OF CONTENTS

	<i>Page</i>
IDENTIFICATION VIEWS.....	2-3
SPECIFICATIONS.....	4
GENERAL INFORMATION.....	5
PREPARING THE CULTIVATOR.....	5
PREPARING AND ADJUSTING JOHN DEERE TRACTORS..	6-15
ATTACHING CULTIVATOR TO TRACTOR.....	16-19
DETACHING CULTIVATOR FROM TRACTOR.....	19
OPERATING AND ADJUSTING.....	20-23
Raising and Lowering.....	20
Leveling.....	20
Depth Control.....	20
Row Width.....	20
Knives.....	21
Hooded Shields.....	21
Rotary Hoes.....	21
Front Spring-Trip Shanks and Sweeps.....	22
Rear Cultivator Shanks and Sweeps.....	22
Disk Hillers.....	23
Transporting.....	23
SAFETY SUGGESTIONS.....	24
MAINTENANCE SUGGESTIONS.....	24
LUBRICATING INSTRUCTIONS.....	25



John Deere 890 Four-Row Knifing Cultivator



John Deere 890A Five-Row Bed Knifing Cultivator

56736

GENERAL INFORMATION

The 890 Series Knifing Cultivator is used for cultivating young crops before other type cultivators can be used.

The 890A Series Bed Knifing Cultivator is used for cultivating beds before planting.

Proper cultivation of row crops during the growing season has much to do with the yield and the quality of the crop produced.

The flexible rotary hoes for the 890 Series Cultivators do a good job of weed destroying and creating a surface mulch. They are used to best advantage after heavy rains have packed the ground and created an unsatisfactory growing condition.

By rearranging the location and settings of the cultivator shanks, knives, rotary hoes, or disk hillers, many combinations can be obtained.

PREPARING THE CULTIVATOR

The polished surfaces of the sweeps are varnished and those on the knives are blue lacquered. This protective coating should be removed before the cultivator is put into operation.

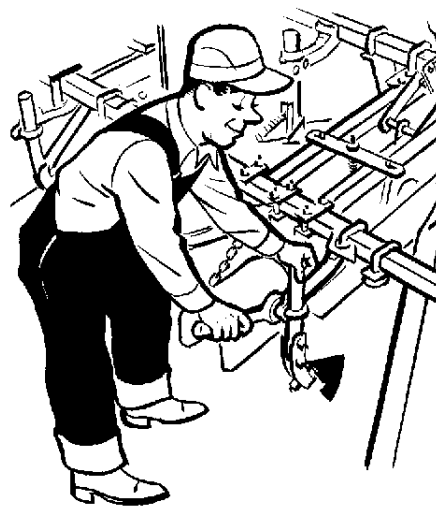
To remove this coating apply varnish remover or a strong lye water solution, let soak for a few minutes, and then rub it off. Repeat operation if necessary.

CAUTION: When using the lye solution keep it away from the body and clothing as it may cause burns. Also, be sure to remove the lye solution thoroughly from the polished surfaces to prevent discoloration of the steel.

If the cultivator is not to be used immediately, protect the polished surfaces by applying a coat of cup or gun grease.

Be sure cultivator has been properly lubricated. See Lubrication Chart on page 25.

Before starting to work with a new cultivator or one which has been stored, make sure all bolts and set



57103

screws are tight and that all cotter pins are spread to keep them from falling out.

A good practice is to check for loose bolts, screws or parts when lubricating the cultivator. Loose bolts are easily lost or cause excessive wear on parts, resulting in possible serious damage to the cultivator.

Incorrect adjustment results in rapid wear, possible breakage, and inefficient operation.

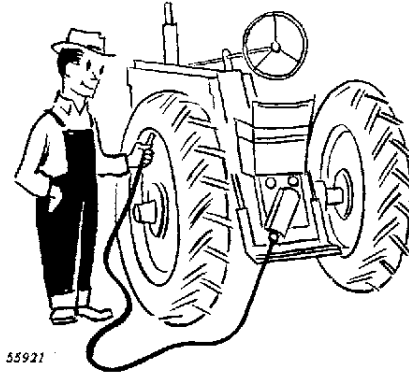
PREPARING AND ADJUSTING JOHN DEERE TRACTORS

Refer to your Tractor Operator's Manual for complete tractor operating instructions, tire inflation pressure (unless listed in this manual), and use of rear mounted integral implements.

TIRE INFLATION

Proper air pressure is the most important factor in satisfactory performance and maintenance of tractor and implement tires. Underinflation will damage the cord body of the tire and cause a series of radial breaks in the sidewall fabric.

If additional traction is required, add weight to the wheels. Lowering the air pressure will make little difference in the traction and may ruin the tires.



Check air pressure every two or three weeks. Use a special low pressure gauge having one-pound graduations.

"320," "420," AND "40" SERIES TRACTORS

TRACTOR DRAWBAR

Set the drawbar in the short position.

REAR WHEEL SETTING

Set the rear wheels of the tractor to conform to the row spacing of the cultivator. Set rear wheels double the row spacing desired, adjusting the wheels equidistant from the center line of the tractor.

FRONT WHEEL SETTING

On wide-front-axle tractors, set front wheels to conform to rear wheel setting.

To improve the steering and handling of tricycle-type tractors on previously worked beds, reverse the

front wheels on the wheel hubs to the wide setting.

FRONT END WEIGHTING

When operating a "320," "420," or "40" Series Tractor with an 890 Two-Row Knifing Cultivator or an 890A Five-Row Bed Knifing Cultivator, or when operating an 890 Four-Row Knifing Cultivator with a "420," or "40" Series Tractor, maximum front end weights must be used.

FRONT TIRE INFLATION

Tire Size	Ply	Air Pressure
5.00-15	4	28
6.00-16	4	28
6.00-16	6	28
7.50-16	4	20

REAR WHEEL TIRE INFLATION AND WEIGHTS

It is important that proper weight be added to the tractor for various cultivating conditions. Information regarding rear wheel weights and rear wheel tire pressure is given below for "320," "420," and "40" Series Tractors when used with the 890 Two-Row Knifing Cultivator and 890A Five-Row Bed Knifing Cultivator, and for the "420" and "40" Series Tractors when used with the 890 Four-Row Knifing Cultivator.

Tire Size	Inflation Pressure	Maximum Number of Weights per Wheel	
		890 Two-Row Knifing Cultivator 890A Five-Row Bed Knifing Cultivator	890 Four-Row Knifing Cultivator
9-24	18	0	Not recommended
10-24	16	1	Not recommended
11-24	14	2	Not recommended
11-26	14	3	0
12-26	14	3	3
13-26	12	3	3
12-28	14	3	3
10-34	16	2	0
10-38	16	2	0
11-38	14	3	2

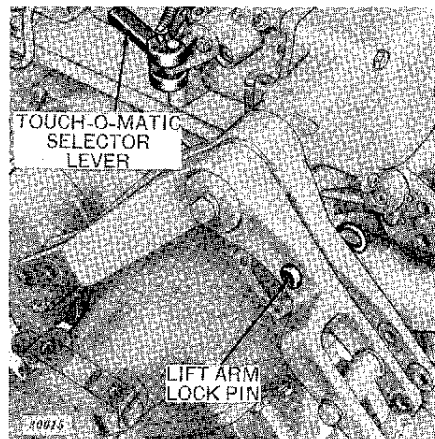
NOTE: Regardless of weights added, liquid-filled rear tires are recommended.

ROCKSHAFT LIFT ARMS

On tractors which have Dual Touch-o-matic, pin the rockshaft lift arms together with lift arm lock pin so the Touch-o-matic cylinders will work in parallel to obtain maximum lifting capacity.

TOUCH-O-MATIC SELECTOR LEVER

On tractors which have Dual Touch-o-matic, the selector lever must be in the forward position when the lift arms are pinned together.



Rockshaft Lift Arms

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com