

M100 SERIES ROW-CROP CULTIVATOR FOR MODEL "M" TRACTOR



JOHN DEERE

OPERATORS MANUAL M100 SERIES ROW-CROP CULTIVATOR FOR MODEL "M" TRACTOR

OMN12651 (01JUN51) English

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LITHO IN THE U.S.A.
ENGLISH



YOUR NEW CULTIVATOR

Behind your new cultivator is an organization that has designed and built farm implements for over 100 years. This cultivator was built in a John Deere Factory by experienced men, thus assuring the utmost in design, high-grade workmanship, and thorough inspection, so essential to the production of good cultivators.

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 that you may make the necessary adjustments for adapting your cultivator to work properly in all types of field cultivation. These adjustments such as row spacing and proper leveling of shovels or sweeps are fully covered in this manual. Study the manual carefully and make it your guide.

Occasionally your cultivator may need new parts to replace worn parts or emergency service may be required that is not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer; which assures you of genuine John Deere parts or other prompt "know-how" service in the field or shop.

If you will furnish your dealer the part number, description, and 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.

Location References:

"Right" and "Left," "Front" and "Rear," refer to the operator's "Right" or "Left," and "Front" or "Rear," when facing the same direction machine is headed or traveling.

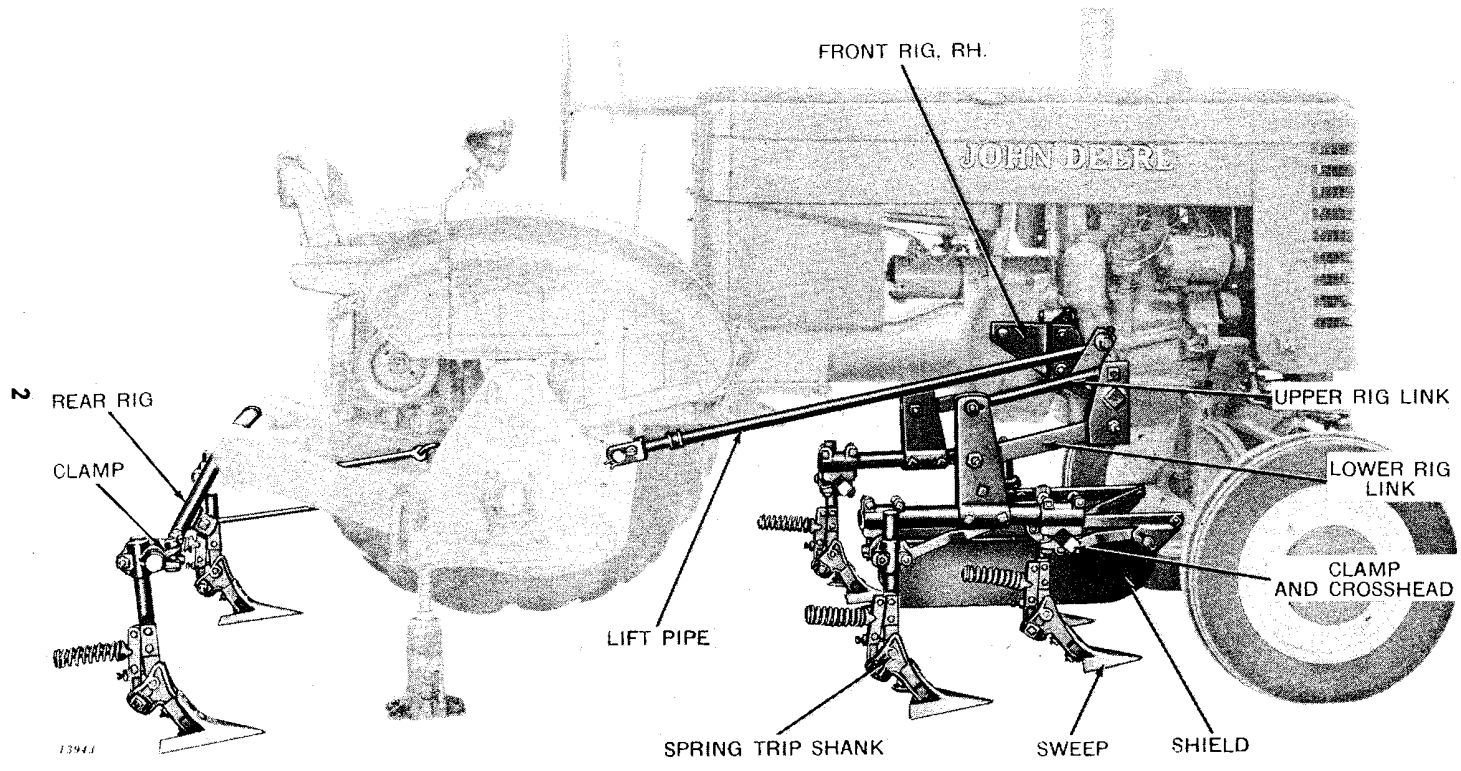
JOHN DEERE M100 SERIES TRACTOR CULTIVATOR

No. of Cultivator.....Date Purchased 19....

(To be filled in by Purchaser)

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*Figure 1—M102 Cultivator Mounted on Model M Tractor
(Tractor Wheel Removed to Show Cultivator Detail)*

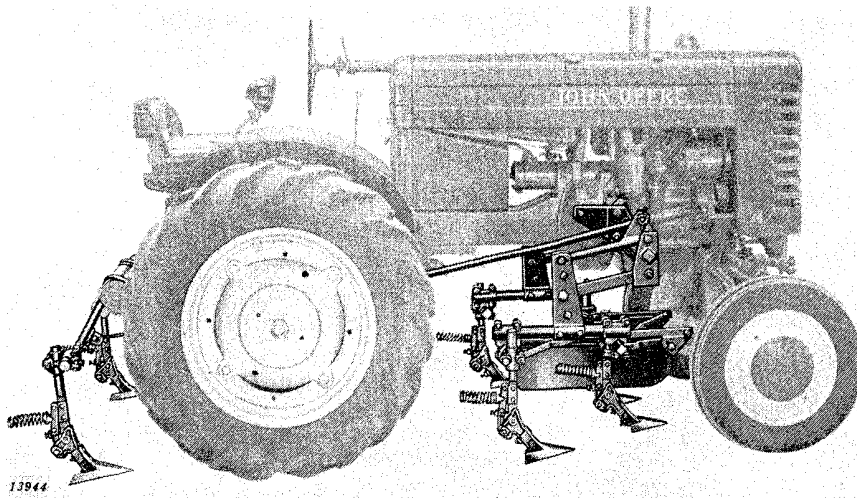


Figure 2—M102 Cultivator in Working Position

SPECIFICATIONS

NUMBER AND TYPE OF SHANKS

Number	Front	Rear	Total No. Shovels or Sweeps	Row Spacing
M102	4 Spring Trip— 1-3/8" Shanks	2 Spring Trip— 1-3/8" Shanks	6	28"-42"
M103	4 Quick Adj. Spring Trip 1-3/8" Shanks	2 Quick Adj. Spring Trip 1-3/8" Shanks	6	28"-42"
M107	4 Spring Trip— 1-3/8" Shanks	4 Single Spring Teeth	8	28"-42"
M114	4 Single Spring Teeth	4 Single Spring Teeth	8	28"-42"
M118	2 Spring Trip— 1-3/8" Shanks 2 Single Spring Teeth	4 Single Spring Teeth	8	28"-42"

All M100 Cultivators are erected at the factory for 40-inch row spacing. To adjust rigs for other row spacing see instructions on Page 7.

(It is John Deere policy to improve our machines at every opportunity. Consequently, it may be necessary to change design without notice.)

OPERATION

Good Cultivation.

This cultivator, when properly adjusted, will do excellent work. Adjustments are provided for various row spacings, for moving the front shovels or sweeps to or away from the crop, and for leveling the rigs.

Tractor Wheels.

Rear wheels of the tractor must be set to accommodate the row spacing.

NOTE: See instructions on wheel tread adjustment in "M" Tractor Operator's Manual, also Row Spacing, Page 7.

Shovels and Sweeps.

Remove lacquer from shovels or sweeps with a lye-water solution or with varnish remover.

Tractor Tire Inflation Pressures.

Tractor tire inflation pressure set up in Model "M" Tractor Operator Manual.

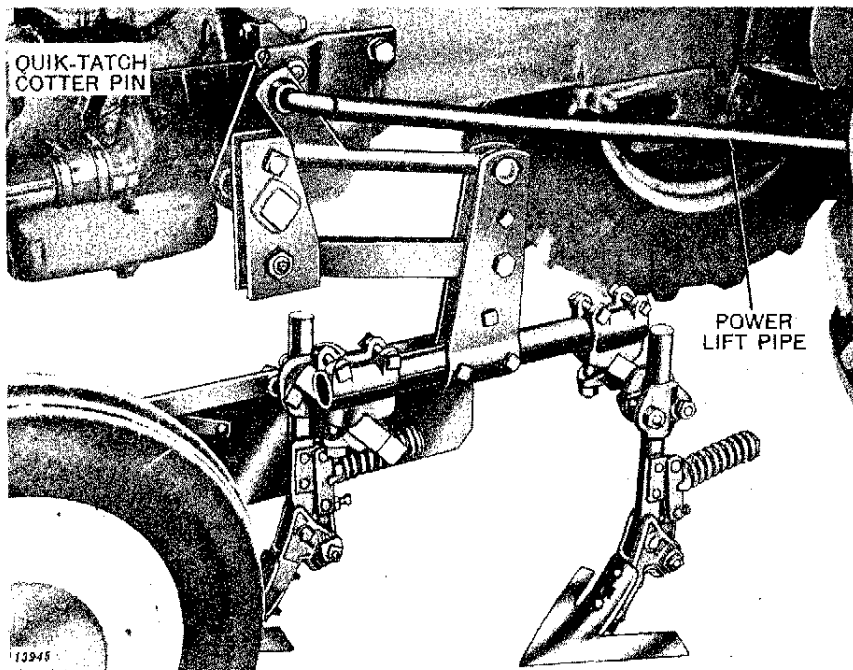


Figure 3—Attaching Front Rigs

Attaching and Detaching Cultivator.

To attach cultivator, as shown in Figure 3, it is necessary to bolt left and right-frame and rig assembly to attaching angle on the tractor. **CAUTION**(Make sure tractor drawbar is not locked but free to operate with Touch-o-matic control. (See Model "M" Tractor Operator's Manual.) With the tractor drawbar in lowered position attach power lift pipes to tractor drawbar as shown in Figure 9. Attach the front end of power lift pipes to cultivator as shown in Figure 3.

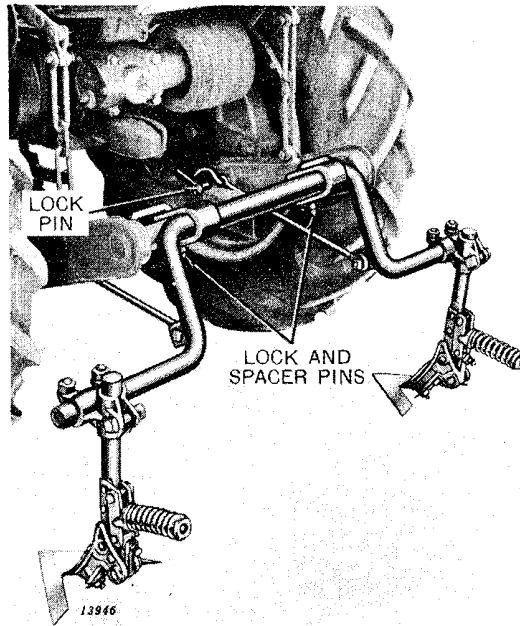


Figure 4—Rear Section

Raise the cultivator to lifted position with the Touch-o-matic control and place rear rigs in position on drawbar as shown in Figure 4, locking in place with the two lock pins in the drawbar side frames and the two lock and spacer pins at the drawbar. Be sure the lock and spacer pins are inserted as shown.

To detach the cultivator from tractor, remove rear rigs and lift pipes, loosen nuts holding frame and rig assembly to attaching angle on tractor and remove left and right-hand frame and rig assembly. *NOTE: It is not necessary to remove attaching angle from tractor when removing rig assembly as angle is slotted. See Figure 7.*

To Lift the Cultivator.

The front and rear rigs are raised and lowered by the Touch-o-matic hydraulic control on the tractor.

Depth Control.

The Touch-o-matic control of the tractor assures depth control of cultivator rigs to any desired position.

The front rigs can be adjusted to maximum height required by adjusting collar "A" Figure 9. Drawbar lift chains should be attached in rear holes on the rockshaft power lift arms. Attach lift chains in front holes of power lift arms for fine depth adjustment.

ADJUSTMENTS

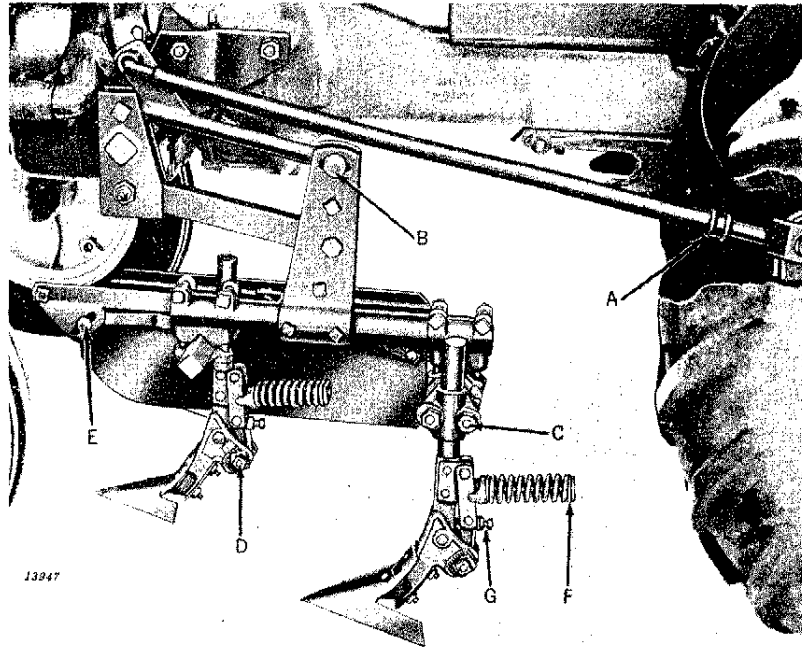


Figure 5—Adjustments on Cultivator

Leveling and Tilting Front Rigs.

The front rig lifting pipes are provided with a collar adjustment at "A," Figure 5. Adjust so that all rigs operate at the same level. **CAUTION:** Do not adjust collar "A," Figure 5, too far forward against lifting pipe as it will cause rig to strike lower rig link in lifted position. Tilt the rigs up or down with slotted adjustment at "B," Figure 5.

Leveling Shovels and Sweeps.

Set all shanks so shovels or sweeps are level. Do this by first adjusting the inside front shank and shovel or sweep, and then level all shovels or sweeps to this one adjustment. By so doing, full advantage of maximum lift can be obtained. To level shovels or sweeps, loosen nut "C," Figure 5, and move shank up or down until all shovels or sweeps are level. Then tighten nut.

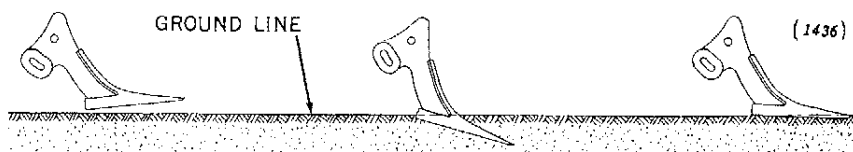


Figure 6—Setting Sweeps on Shanks

Setting Sweeps on Shanks.

Sweeps must be set on shanks for proper penetration. The adjustment is made at "D," Figure 5. Set sweeps as shown in Figure 6.

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