



**M10A SERIES
TRACTOR CULTIVATOR
(FOR MODEL
"M" TRACTOR)**



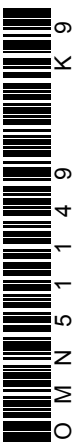
JOHN DEERE

**OPERATORS MANUAL
M10A SERIES TRACTOR
CULTIVATOR (FOR MODEL "M"
TRACTOR)**

OMN51149 K9 English

OMN51149 K9

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.

JOHN DEERE M10A SERIES TRACTOR CULTIVATOR

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

(To be filled in by Purchaser)

TABLE OF CONTENTS

	<i>Page</i>
IDENTIFICATION OF PARTS.....	2-3
SPECIFICATIONS.....	3
OPERATING AND ADJUSTING:	
Good Cultivation.....	4
Tractor Wheels.....	4
Shovels and Sweeps.....	4-6
Tractor Tire Inflation Pressure.....	4
Attaching and Detaching Cultivator to Tractor.....	5
To Lift Cultivator.....	5
Depth Control.....	5
Adjusting Front Rigs.....	6
Spring Trips.....	7
Shields.....	7
Row Spacings.....	7
Lubrication.....	7
TO SET UP CULTIVATOR:	
Identification View of M12A, M14A, M16A, and M18A Cultivators.....	8-9
Shipping Bundles (Regular and Special).....	10
General Instructions.....	11
To Set Up M12A, M14A, M16A, and M18A Cultivators.....	11-12-13
Shields.....	13
PARTS LIST AND ILLUSTRATIONS.....	14-22
NUMERICAL INDEX OF PARTS.....	23-24

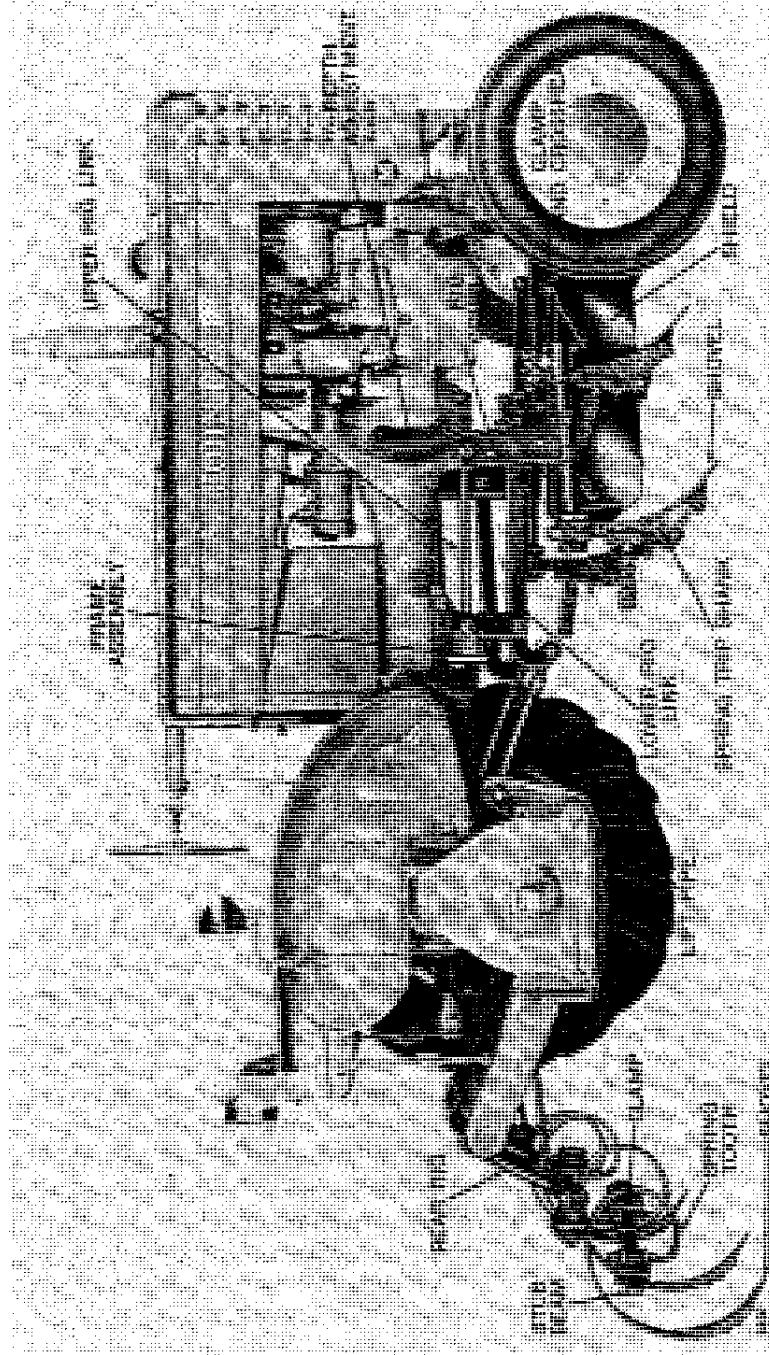


Figure 1—M16A Cultivator Mounted on Model "M" Tractor.
 (Tractor Wheel Removed to Show Cultivator Detail.)

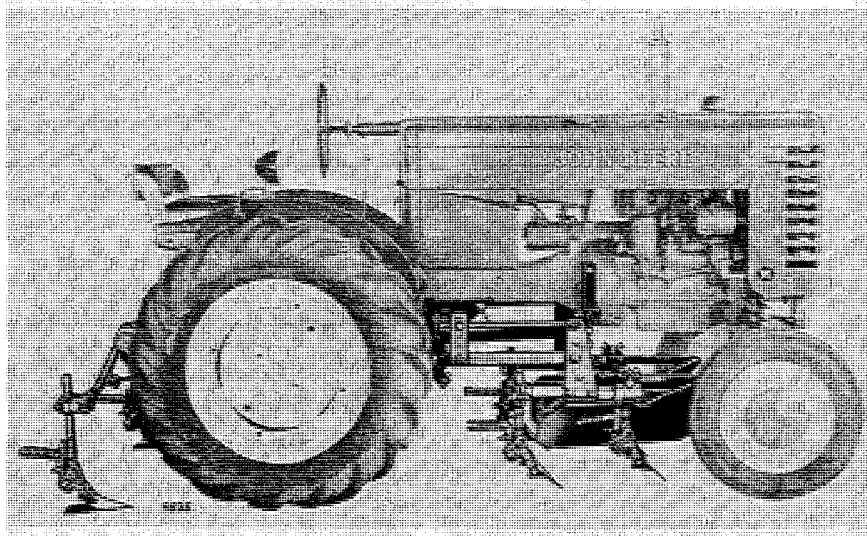


Figure 2—M12A Cultivator in Working Position

SPECIFICATIONS

NUMBER AND TYPE OF SHANKS

Serial Number	Front	Rear	Total No. Shovels or Sweeps	Row Spacing
M12A	4 Spring Trip—1-3/8" Shanks	2 Spring Trip—1-3/8" Shanks	6	28"-42"
M14A	4 Single Spring Teeth	4 Single Spring Teeth	8	28"-42"
M16A	4 Spring Trip—1-3/8" Shanks	4 Single Spring Teeth	8	28"-42"
M18A	2 Spring Trip—1-3/8" Shanks 2 Single Spring Teeth	4 Single Spring Teeth	8	28"-42"

SPECIAL EQUIPMENT

- M16A SC99AN Shank Bundle (4 Spring Trip Shanks, 1-1/8") in lieu of SC101AN Shank Bundle (4 Single Spring Teeth)
- M14A (For Wide Rows Up to 60", SC134AN Longer Stub Beam can be ordered in lieu of SC95AN Stub Beam.
- M16A
- M18A

All M10A Series Cultivators are regularly shipped with SC497AN Shields.

NOTE: Detail design subject to change 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.

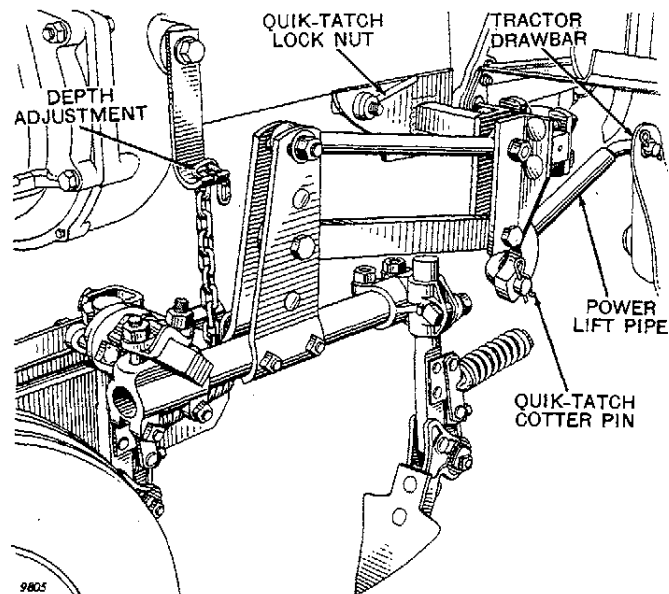


Figure 3—Attaching Front Rigs

Attaching and Detaching Cultivator.

To attach cultivator, as shown in Figure 3, it is necessary to attach the right-hand frame to the tractor first, then tighten the Quik-Tatch lock nut. Attach the left-hand frame to the tractor, being sure the shaft on the frame is inserted into the socket of the right-hand frame, then tighten the Quik-Tatch lock nut. Attach tie bolt to hold right-hand frame and left-hand frame rigid against tractor frame. **CAUTION: Make sure tractor drawbar is not locked but free to operate with Touch-o-matic control.** (See Model "M" Tractor Manual.) With the drawbar in lowered position attach power lift pipes to tractor drawbar as shown in Figure 3. The rod end of the power lift assembly should be attached to the cultivator, as shown in Figure 3, when cultivator rigs are set out. When cultivator rigs are set in the rod should be inserted from the outside.

Attach chain hanger as shown in Figure 3, and adjust depth chain to maximum depth desired.

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 Quik-Tatch lock nuts and tie bolt, remove the left-hand frame first, then remove the right-hand frame.

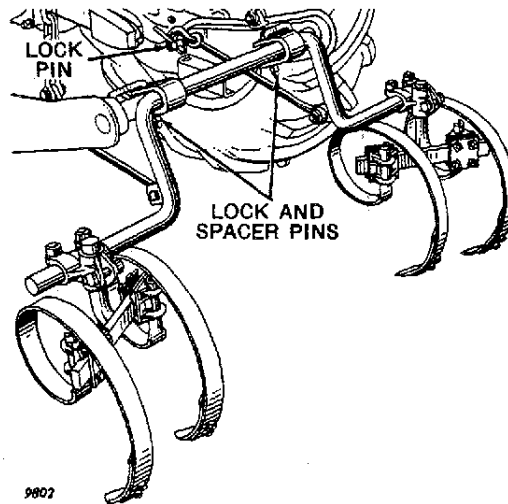


Figure 4—Attaching Rear Rigs

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 at any desired position.

The front rig chain can be adjusted to maximum depth required (both sides. See Figure 3.) Drawbar lift chains must be attached to the front holes on the rockshaft power lift arms. This assures fine depth adjustment.

ADJUSTMENTS

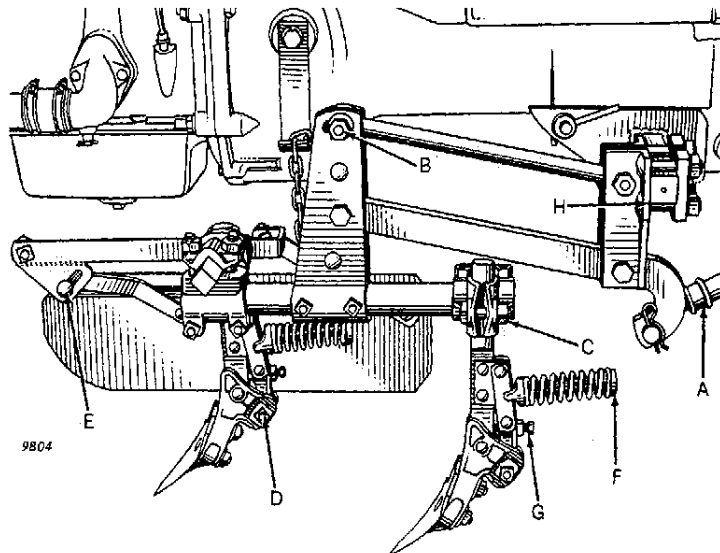


Figure 5—Adjustments on Cultivator

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. 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.

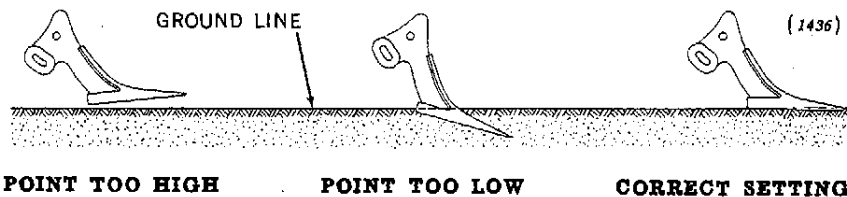


Figure 6—Setting Sweeps on Shanks

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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