

MT200 SERIES ROW-CROP CULTIVATOR

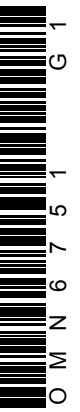


OPERATORS MANUAL MT200 SERIES ROW-CROP CULTIVATOR

OMN6751 G1 English

OMN6751 G1

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 MT or MTW200 SERIES ROW-CROP CULTIVATOR

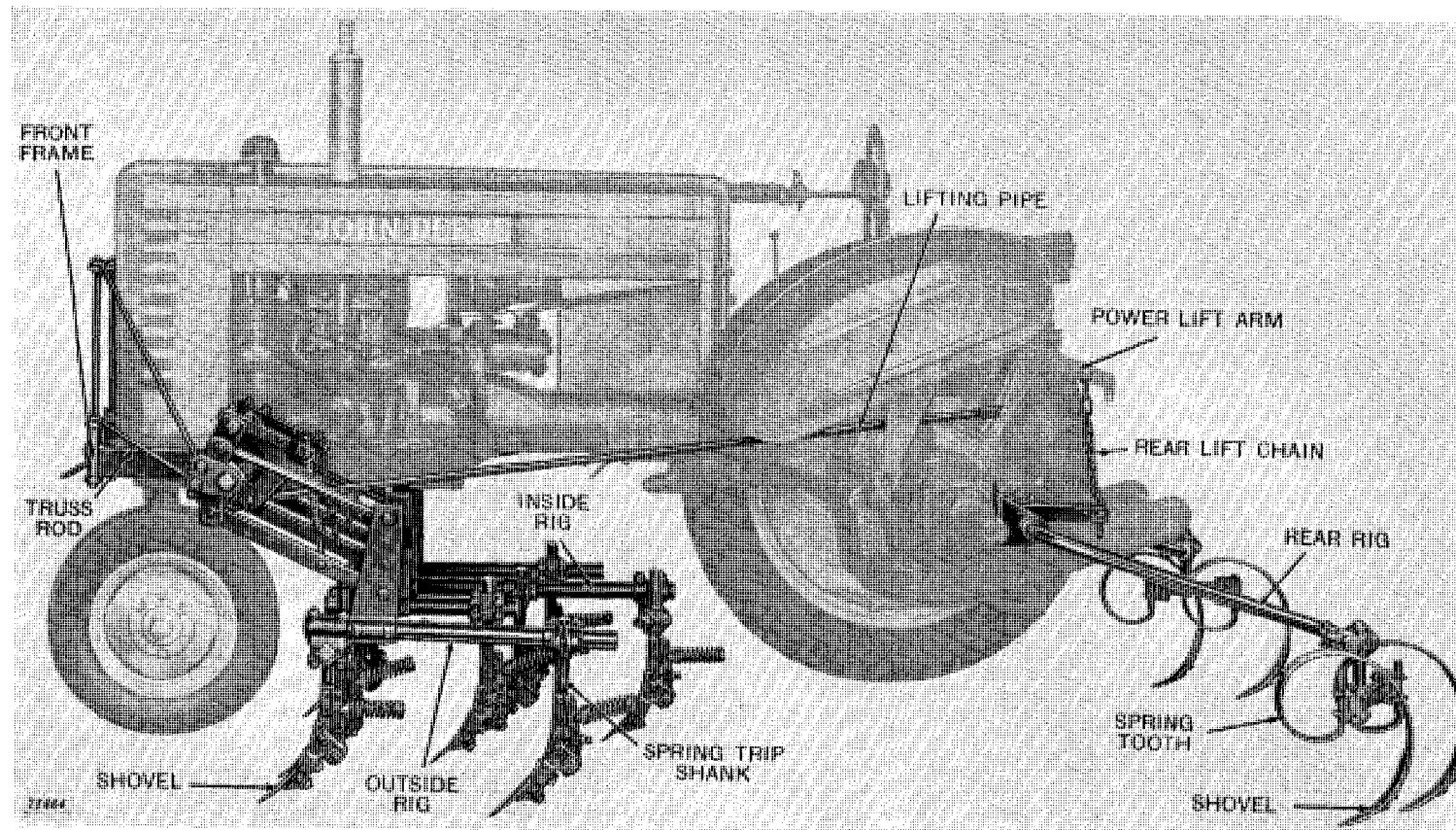
No. of Cultivator

Date Purchased 19.....

(To be filled in by Purchaser)

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*Figure 1—MT207 Power-Lift Row-Crop Cultivator
(Tractor Wheel Removed to Show Cultivator Detail)*

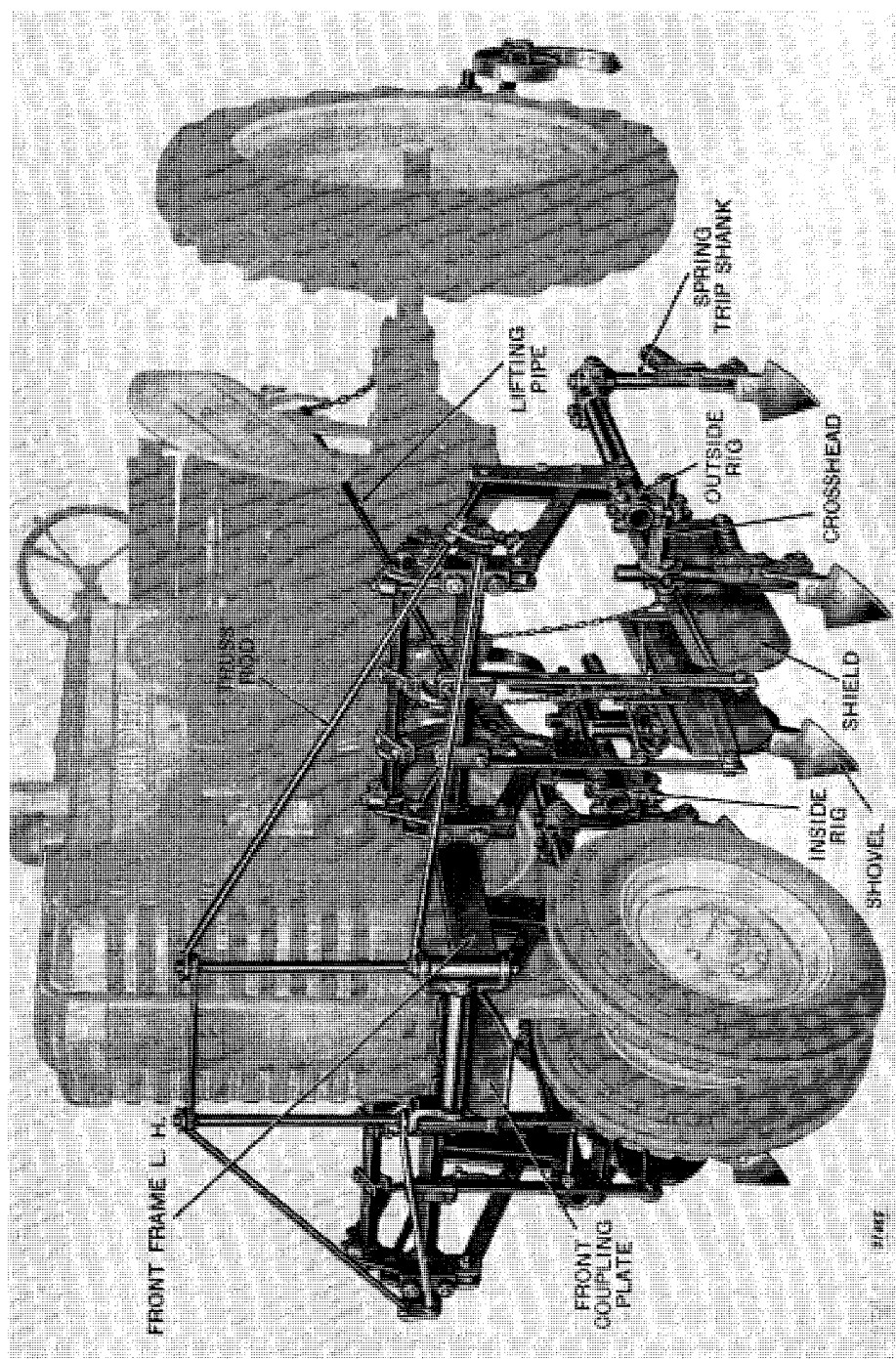


Figure 2—Front View, L. H. MT207 Power-Lift Row-Crop Cultivator

SPECIFICATIONS

Description

All the cultivators listed below have four front rigs.

The No. MT or MTW201 has no rear rigs.

The Nos. MT or MTW202 and MT or MTW203 have two (parallel) rear rigs.

The Nos. MT or MTW204 and MT or MTW207 have two (straight) rear rigs.

The Nos. MT or MTW212, MT or MTW214, MT or MTW216 and MT or MTW218 have two (offset) rear rigs.

TYPE OF SHANKS AND NUMBER USED

No.	Front	Rear	Total No. Shovels or Sweeps	Row Spacing
MT or MTW201	11 Spring Trip 1-3/8" Shanks	None	11	28"-42"
MT or MTW202	9 Spring Trip 1-3/8" Shanks	2 Spring Trips 1-3/8" Shanks	11	34"-42"
MT or MTW203	9 Quick Adj. Spring Trip 1-3/8" Shanks	2 Quick Adj. Spring Trip 1-3/8" Shanks	11	34"-42"
MT or MTW204	9 Double Spring Teeth	4 Single Spring Teeth	13	34"-42"
MT or MTW207	9 Spring Trip 1-3/8" Shanks	4 Single Spring Teeth	13	34"-42"
MT or MTW212	9 Spring Trip 1-3/8" Shanks	2 Spring Trips 1-3/8" Shanks	11	28"-42"
MT or MTW214	11 Single Spring Teeth	4 Single Spring Teeth	15	28"-48"
MT or MTW216	11 Spring Trip 1-3/8" Shanks	4 Single Spring Teeth	15	28"-48"
MT or MTW218	4 Spring Trip 1-3/8" Shanks 7 Single Spring Teeth	4 Single Spring Teeth	15	28"-48"

All cultivators, MT or MTW200 Series, are erected at the factory for 40-inch row spacing. To adjust rigs for other row spacing see instructions, Page 9.

OPERATING AND ADJUSTING

Shovels and Sweeps.

Remove varnish from shovels and sweeps to obtain a quick polish. Be sure shovels or sweeps are at a uniform height to insure even cultivation.

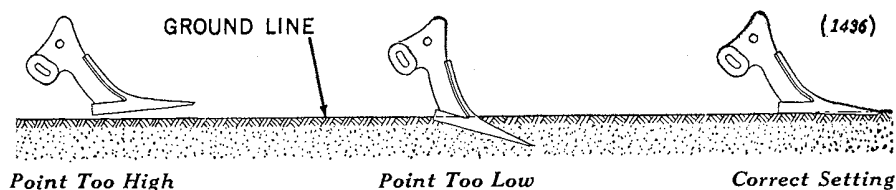


Figure 3—Setting Sweeps on Shanks

Leveling Shovels or Sweeps.

There is only a limited amount of vertical adjustment in the offset shank—therefore, first adjust the offset shank to the desired position and then *level all shovels or sweeps to the shovel or sweep on the offset shank*. All shovels or sweeps must be set in the correct setting in relation to the ground. (See Figure 3.)

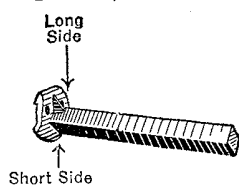


Figure 4

CAUTION: The clamp end of the cross-arms are 3/4-inch longer on one side than on the other. (Note construction of crossheads.) The crosshead should ordinarily be installed in the clamp so that the longer side of clamp end is down, thus providing ample vertical adjustment to level shovels or sweeps. (See Figure 4.)

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 positive depth control of cultivator rigs at any desired depth. The right-hand front and rear rigs can be raised or lowered individually from the left-hand rigs or vice versa.

The front rig lifting pipes must be connected to the *inner hole* of the Touch-o-matic bell cranks. (See Figure 5.) This connection will prevent overload of the Touch-o-matic system and will result in more accurate control of the cultivator.

Rear rig lift chains must be attached to the *inner holes* of the Touch-o-matic bell cranks. (See Figure 5.) This will give fine depth adjustment.

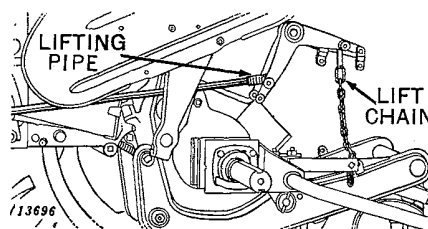


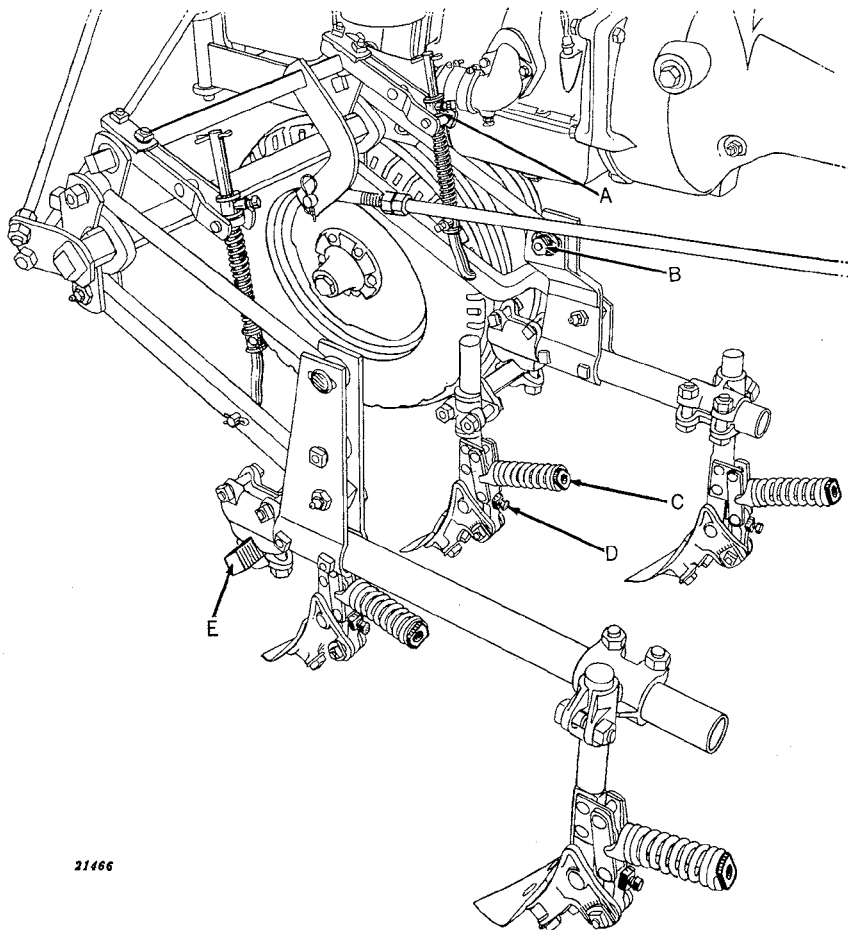
Figure 5

Leveling and Tilting the Front Rigs.

Each front rig lifting rod is provided with a collar and set screw adjustment "A," Figure 6. Adjust so that all rigs operate at the same level. Tilt the rigs up or down with slotted adjustment at "B," Figure 6.

Spring Trips.

Each spring trip should be tripped before starting cultivator to be sure they will function properly. The tension on the spring trips may be adjusted with the nut "C," Figure 6, at the rear end of the spring. If additional adjustment is required, this may be procured with the set screw "D," Figure 6, which is just below the spring. However, this is a factory adjustment and rarely requires changing. One-half to one turn of the set screw makes a big difference in the action of the trip. To make the trip hold tighter, turn the set screw out; turn the set screw in to make the trip release more easily.



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Figure 6—Adjustments of Rigs and Spring Trips

ATTACHING QUIK-TATCH CULTIVATOR

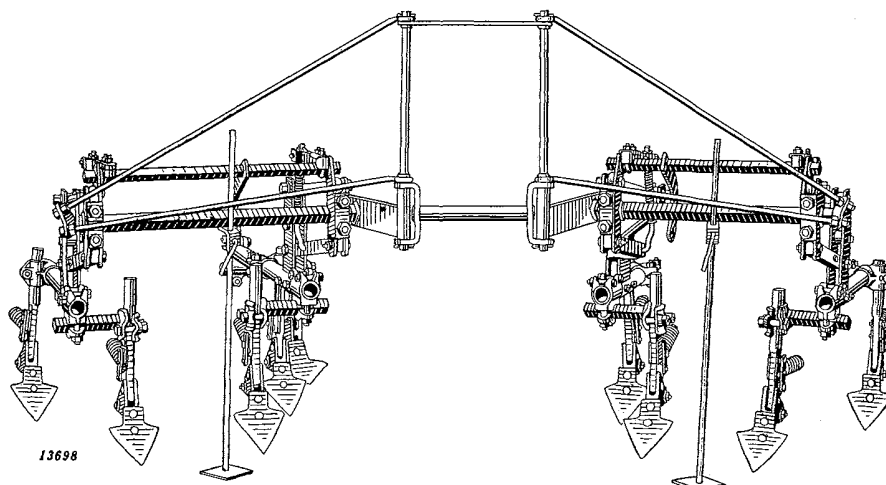


Figure 7—Quik-Tatch Cultivator on Stands

Front section of cultivator must be in position as shown in Figure 7. Drive tractor forward into cultivator as shown in Figure 8, until cultivator Quik-Tatch frame engages Quik-Tatch front coupling plate on tractor. Then swing right and left front sections to tractor frame, fastening with bolt as at "A," Figure 10.

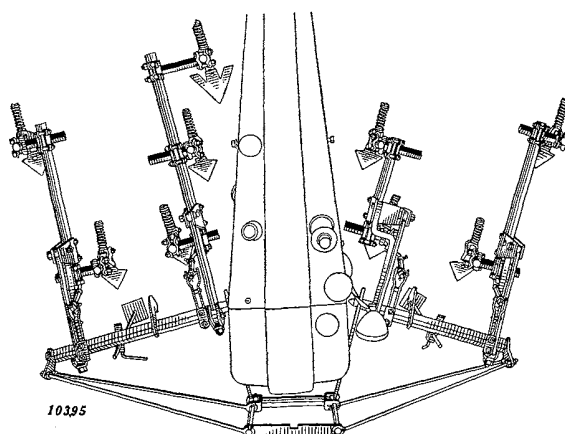


Figure 8—Driving Tractor Into Quik-Tatch Cultivator

Attach lifting pipes as shown in Figure 11, and remove stands. Stands should be carried on front section of cultivator, permitting quick accessibility.

If rear rigs are to be used, attach as explained under "Setting Up," Page 24.

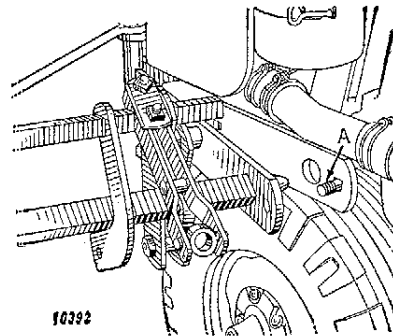


Figure 9—Attaching Quik-Tatch Frame to Tractor

DETACHING CULTIVATOR

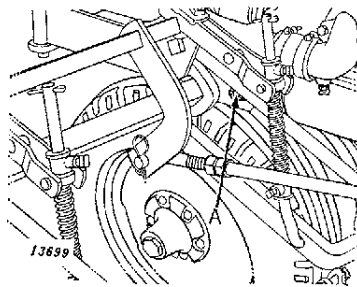


Figure 10—Detaching Cultivator with Quik-Tatch Frame

Lower cultivator so that shovels are resting on fairly level ground. Remove rear rigs by loosening large hexagon nuts on studs on the tractor. Also disconnect rear lift chains from arms on rockshaft.

Remove lifting pipes as shown in Figure 11.

Take nut off bolt "A," Figure 10, on right and left sides of frame.

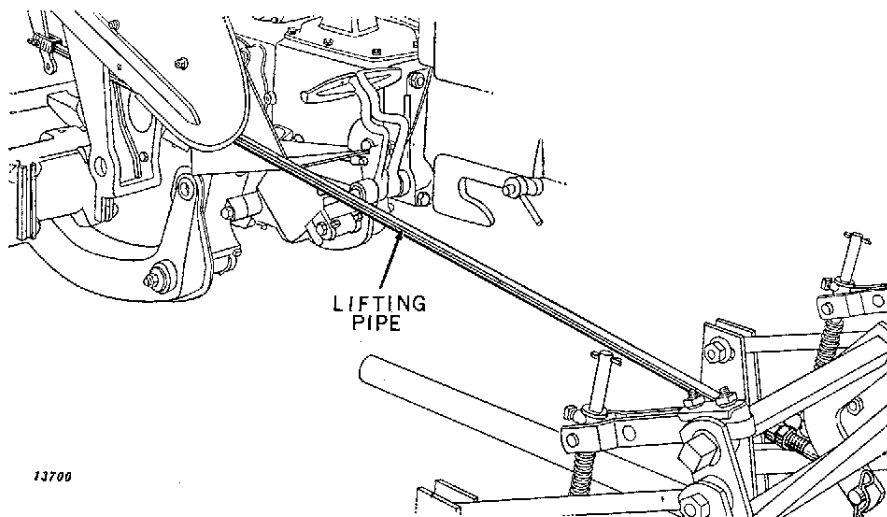


Figure 11—Attaching or Detaching Lifting Rod

Place support stands in position on each side of main frame at an angle, the clamp part being nearer the tractor and resting firmly against the underside of the frame bar. Pull the frames away from the tractor and back the tractor away from the cultivator. See Figure 11.

Front Coupling Plate, Figure 11, may be left on tractor, unless the pedestal studs are needed for another attachment.

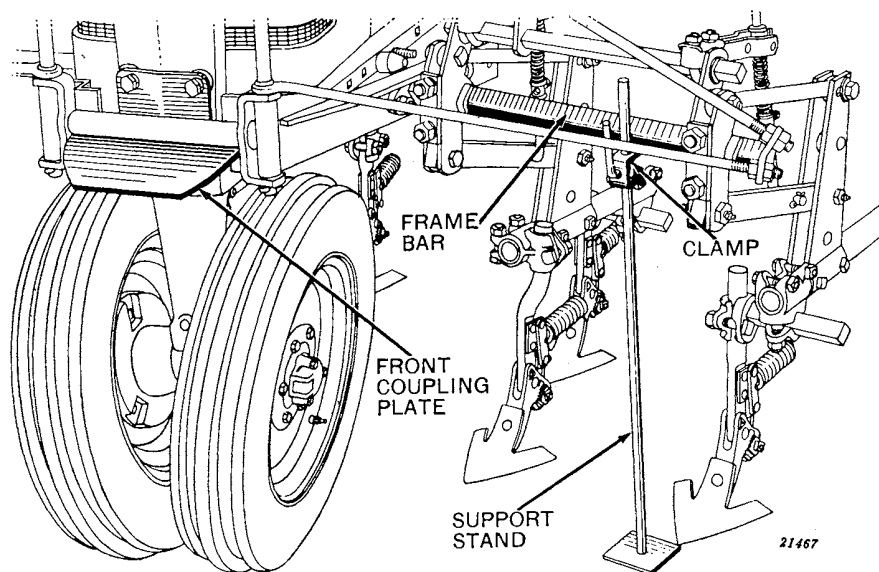


Figure 12—Removing Front Frame and Rigs

Row Spacing.

The front rigs when shipped from factory are set on frame bars for 40-inch rows. See table on Page 4 for different row spacings for which rigs can be set.

NOTE: When moving rig hangers on frame bars for different width rows be sure both sides of cultivator are set exactly alike.

Set front shovels in or out by adjusting crosshead at "E," Figure 6, to distance desired from row.

Rear rigs are adjustable in or out in the bearings. When making this change, shift the lifting brackets to conform. Shanks are also adjustable in or out on the rear rigs.

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