

JOHN DEERE A20, AT40, AU40 AND AT630 ROW-CROP CULTIVATORS



JOHN DEERE

OPERATORS MANUAL JOHN DEERE A20, AT40, AU40 AND AT630 ROW-CROP CULTIVATORS

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To the Purchaser

These cultivators were carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need - whether it is operation, lubrication, attaching and detaching or specifications. Read the Table of Contents to learn where each section is located.

In addition to the equipment furnished with your cultivator, attachments are available to help you do a better job in special crop conditions. These are described in the Special Equipment section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the cultivator will travel when in use.

Record your cultivator serial number in the space provided on page 56. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your cultivator requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

The warranty on this cultivator appears on your copy of the purchase order which you should have received from your dealer when you purchased the cultivator.

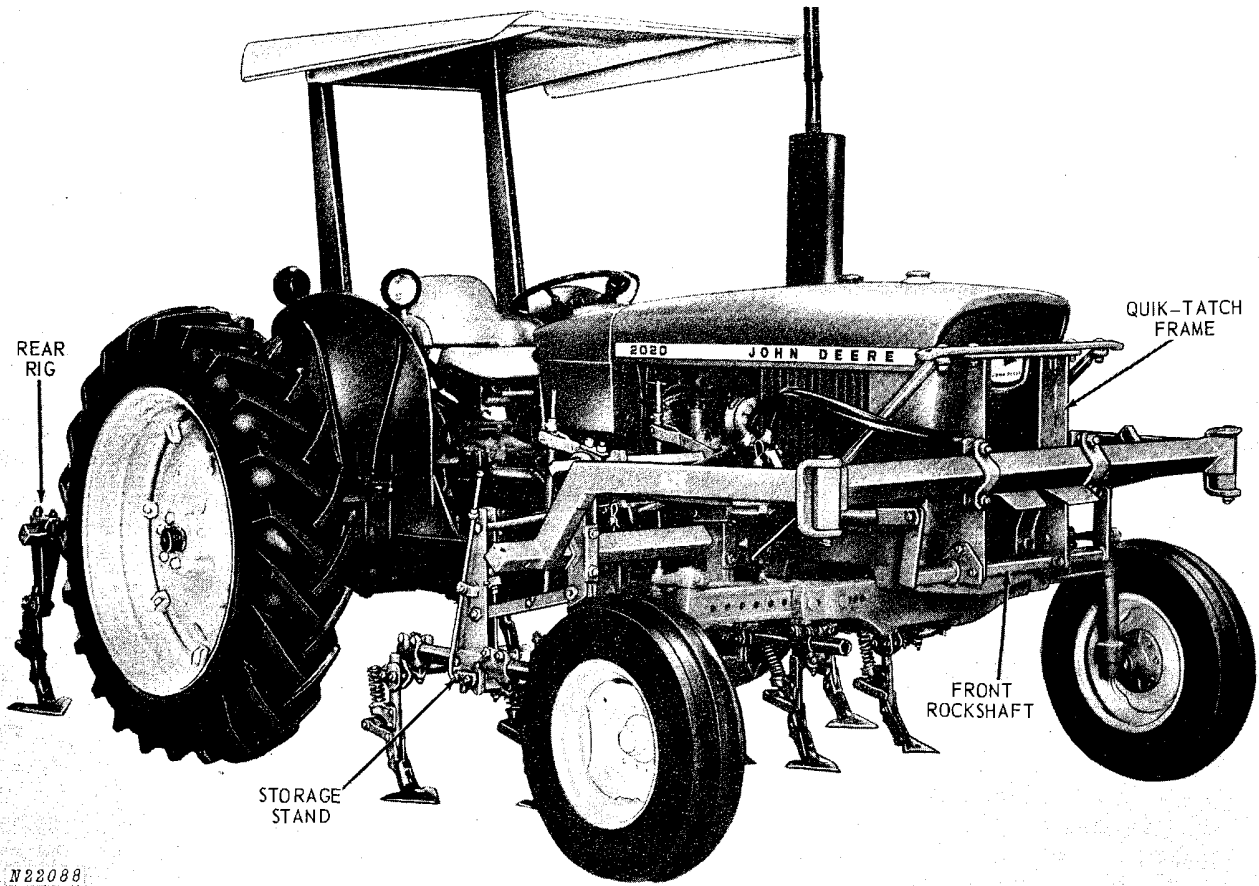


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



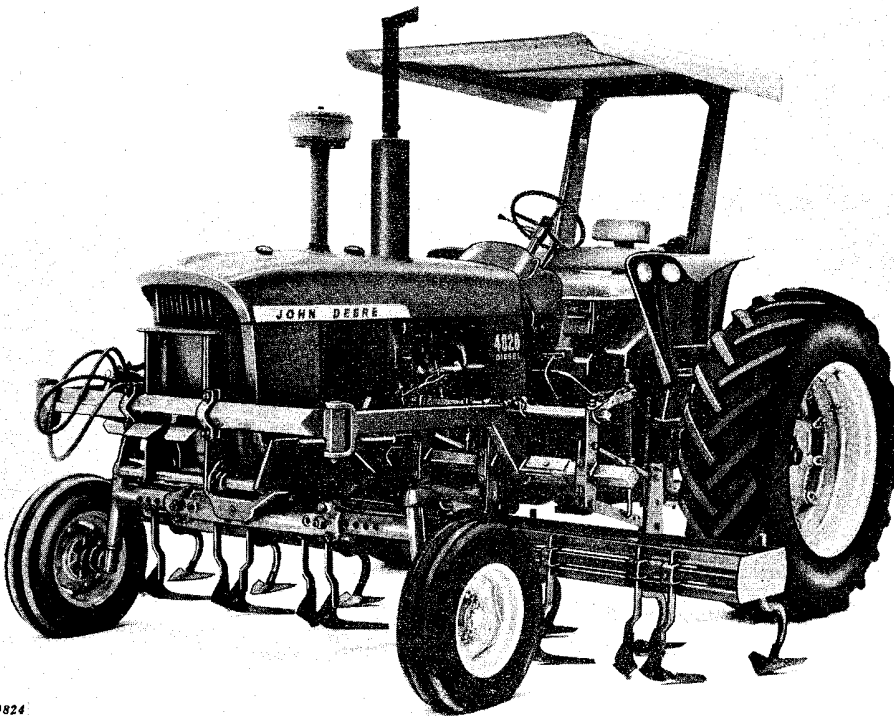
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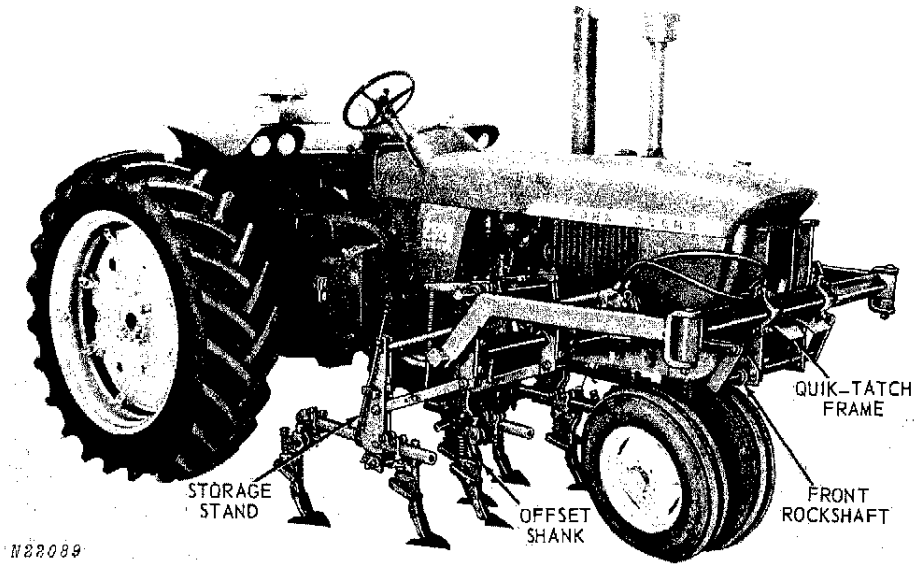
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John Deere A20 Cultivator on 2020 Row-Crop Tractor

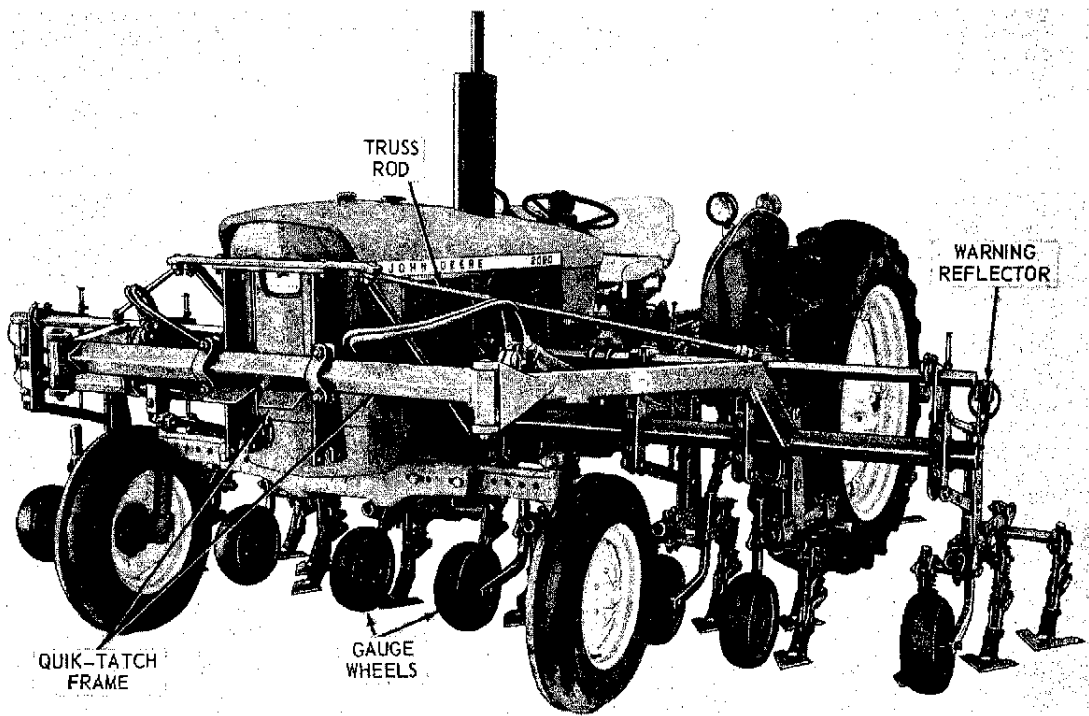


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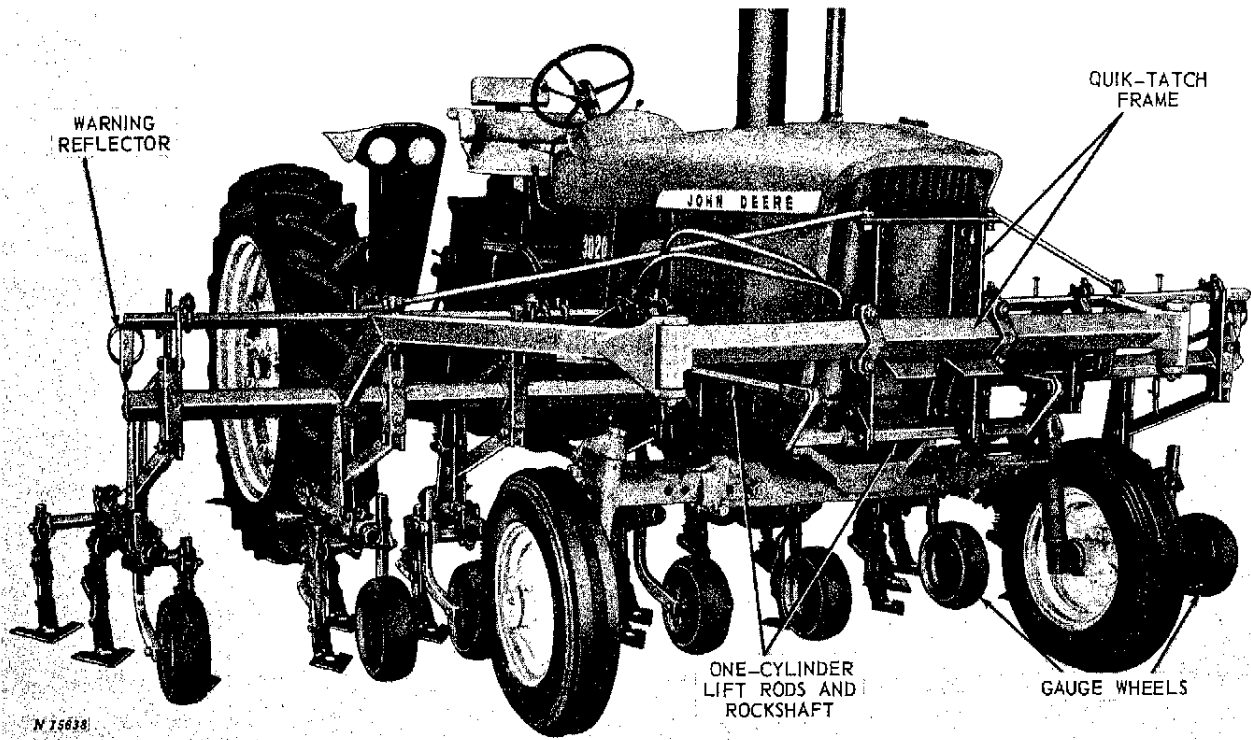
John Deere A20 Beet-Bean-Vegetable Cultivator on 4020 Row-Crop Tractor



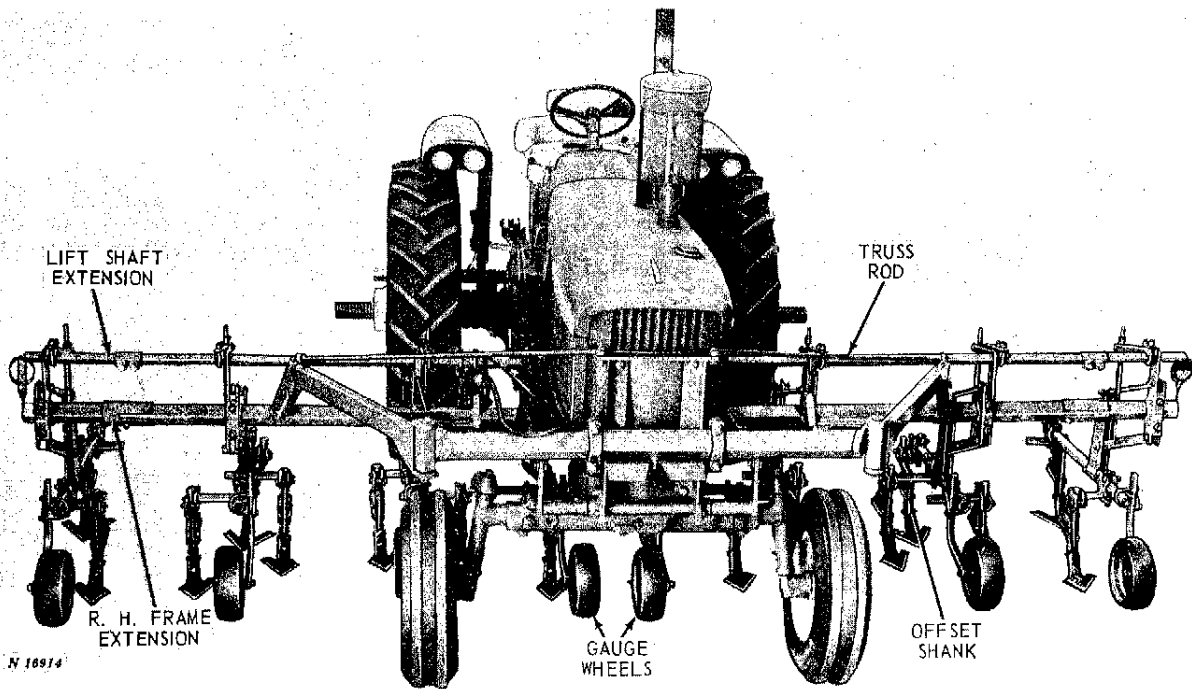
John Deere A20 Cultivator on 2520 Row-Crop Tractor



John Deere AU40 Cultivator on 2020 Row-Crop Tractor



John Deere AT40 Cultivator on 3020 Row-Crop Tractor



John Deere AT630 Cultivator on 4020 Row-Crop Tractor



Operation

CONTROLS

Refer to your tractor operator's manual for complete familiarization and use of the rockshaft and hydraulic controls.

On front rockshaft operated cultivators, front rigs are controlled by the remote cylinder operating levers. If cultivator is equipped with one remote cylinder, one lever operates rigs on both sides of tractor. If cultivator has two cylinders, the left-hand remote cylinder lever controls rigs on left side of tractor, the right-hand remote cylinder lever controls rigs on right side of tractor.

Push lever forward to raise rigs; pull lever back to lower rigs. Reverse hoses at outlets on tractor if rigs do not respond correctly.

On rear rockshaft operated cultivators, both front and rear rigs are controlled by the rockshaft control lever. Push the lever forward to raise the cultivator; pull the lever back to lower the cultivator.

IMPORTANT: Do not attempt to raise cultivator unless storage stands are fastened to rig coupling plates. See page 6.

Place load selector lever on the tractor in "D" position for level land cultivation or "L" position for rolling land cultivation.

TRACTOR TIRE INFLATION AND BALLAST

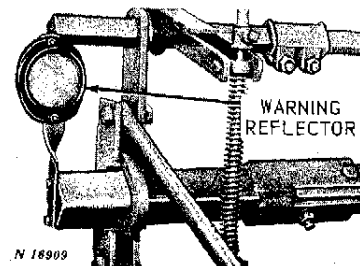
Refer to your tractor operator's manual for proper tire inflation pressures and rear wheel ballast with front-mounted implement.

TRANSPORTING

Never ride or allow others to ride on the cultivator or tractor. The tractor operator should be the only person on the tractor.

Drive at speeds slow enough to insure your safety. Reduce speed before turning or applying brakes. Drive slowly over hills and rough ground to avoid tipping over.

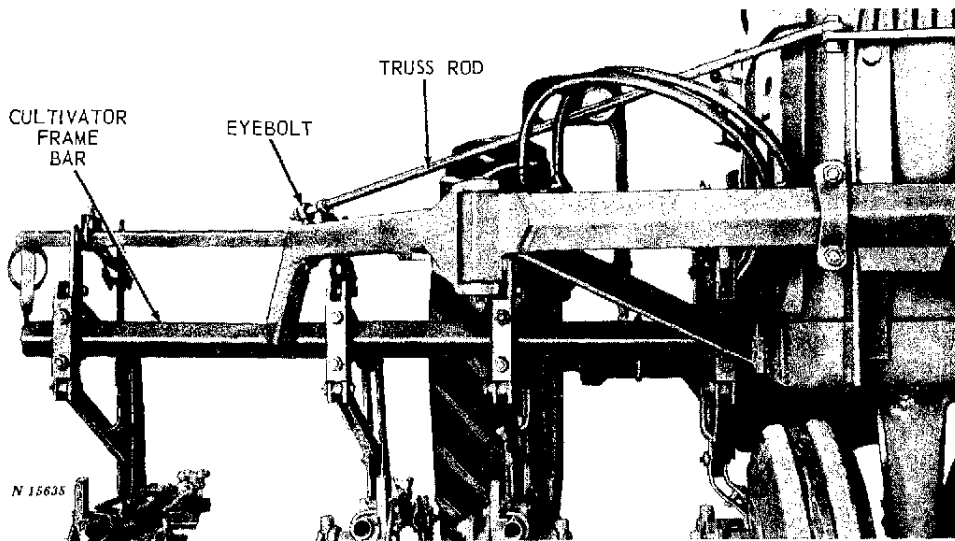
Always keep the tractor in gear when driving down steep grades.



CAUTION: When transporting the cultivator on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Make sure protective cover has been removed from reflective tapes.

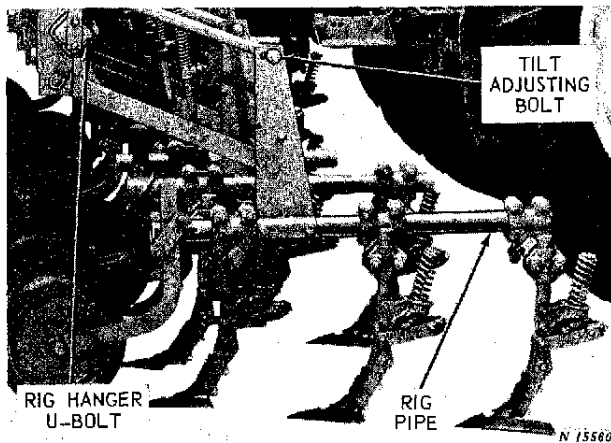
LEVELING CULTIVATOR FRAME BARS



For level cultivation, the cultivator frame bars should be 1 inch higher at the outer ends than at the tractor. Check frame bar angle by sighting under frame bar and tractor rear axle or by measuring distance between frame bar and ground with tractor and cultivator on a level surface.

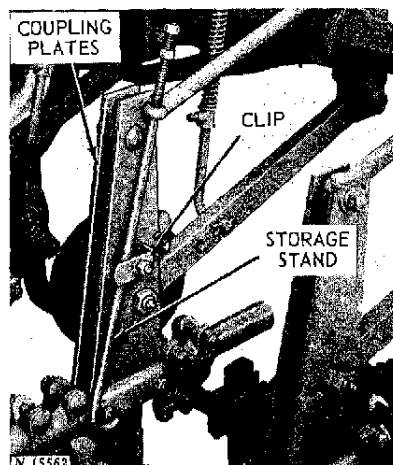
Adjust frame bar angle by tightening nuts against eyebolt on threaded end of truss rod.

RIG TILT

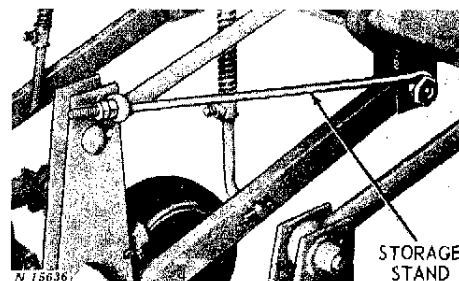


Rig pipes should be set 1/4 inch higher at the front than at the rear so they will run level when cultivating. Loosen the top bolt in the rig coupling plates to tilt rig pipes. Sight across rig pipes from side of cultivator to check level and tilt, then tighten the top bolts. If some rig pipes are high or low, check the rig hanger U-bolts. They should fit square on the frame bar.

STORAGE STANDS

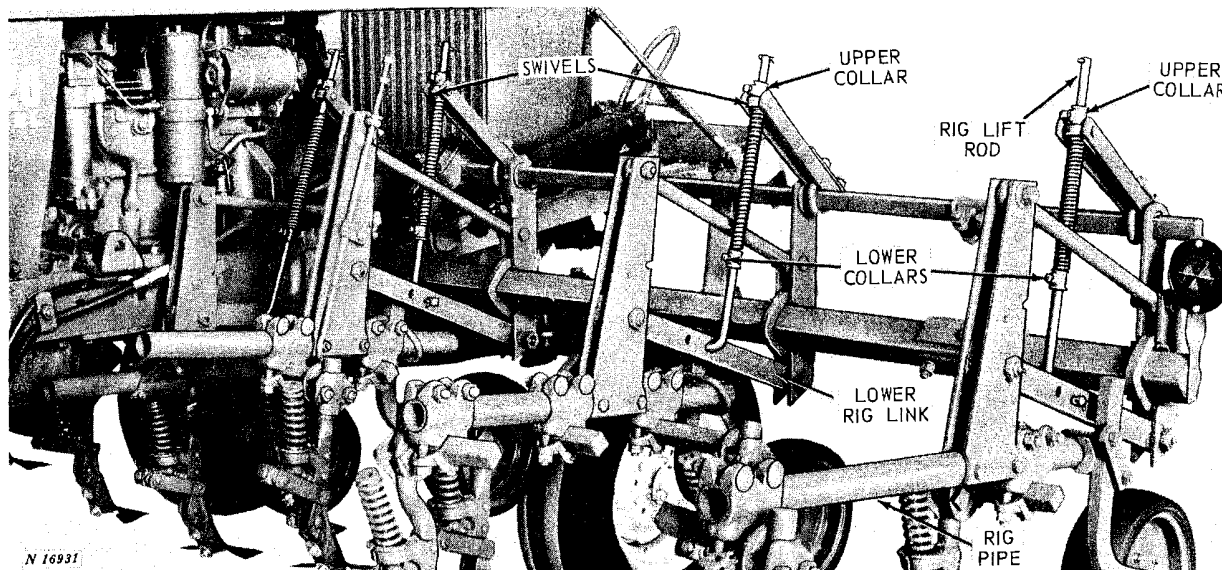


Before raising or operating cultivator, make sure the storage stands are fastened behind the clips against the rig coupling plates as shown above. Be sure the nut on the clip is tight.



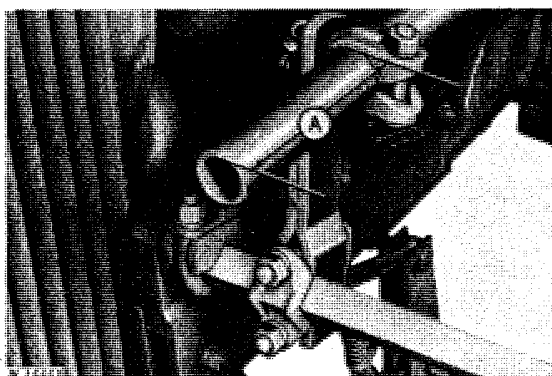
IMPORTANT: Do not attempt to raise cultivator with stands in storage position as shown above.

RIG LIFT HEIGHT



AT630 Row-Crop Cultivator Illustrated

The cultivator must be adjusted so the inner rigs do not strike the tractor and the rig pipes or tool frames do not contact the lower rig links when the cultivator is raised.



On rear rockshaft operated cultivator only, the lift pipes must be correctly positioned in the lift arm clamps before rig lift height can be adjusted.

On 2510, 2520, 3010 or 3020 Tractors, set the distance "A" from the end of the pipe to the edge of the clamp at 14 inches. On 4010 Tractor, distance "A" should be 8 inches. On 4000 and 4020 Tractors, distance "A" should be 7 inches.

To adjust the cultivator rigs for the maximum lift height, loosen the upper and lower collars on all the rig lift rods and raise the rigs as high as possible with the operating lever on the tractor.

Lift the inner rig on each side of the tractor by hand until the rig contacts the tractor. Lower the rig a 1/2 inch and tighten the upper collar set screw. The upper collar should be resting on the lift arm swivel.

On rigs without gauge wheels, lift the rig by hand until there is about a 1/2-inch gap between the rig pipe or tool frame and the lower rig link. Tighten the upper collar set screw.

On rigs equipped with gauge wheels, lift rigs by hand until there is a 1/2-inch gap between the rig pipes and lower rig link or between the gauge wheel and rig hanger. Tighten the upper collar set screw.

IMPORTANT: Once the upper collars are set, do not change their position without repeating the adjustment procedure described above. Otherwise, changing the collar settings could cause the rigs to strike the tractor or parts of the cultivator when the cultivator is raised.

After setting the upper collars, position the lower collars so they are just touching the bottom of the lift rod spring as shown above. Tighten the set screw after adjusting.

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