

A2, T2 Two-Row A4, T4 Four-Row Cultivators Row-Crop



JOHN DEERE

OPERATORS MANUAL

A2, T2 Two-Row A4, T4 Four-Row
Cultivators Row-Crop

OMN97659 (01JUL63) English

OMN97659 (01JUL63)

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER



This manual contains valuable information about your new John Deere Row-Crop Cultivator. It has been carefully prepared and illustrated. In it, you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating, and servicing your new cultivator. You will also find instructions for adapting your cultivator to work properly in all types of field cultivation.

Your new cultivator was built to rigid manufacturing standards. Material and workmanship are the best.

Precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

Keep this manual in a convenient place for quick and easy reference. Study this manual carefully. You have purchased a dependable and sturdy implement, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Give your cultivator proper attention during slack periods, and by doing this it will always be ready, without delay, when you need it.

Sometime in the future, your cultivator may need new parts to replace those that are worn or broken. If so, go to your John Deere dealer. Provide him with the model number of your cultivator and the date purchased. Record this information in the space provided below, so it will be readily accessible when it is needed.

LOCATION REFERENCES

Right-hand and left-hand references are determined by standing at the rear of the cultivator and facing in the direction of travel.

**JOHN DEERE A2 AND T2 TWO-ROW, AND A4 AND T4
FOUR-ROW, CULTIVATORS**

Cultivator Model

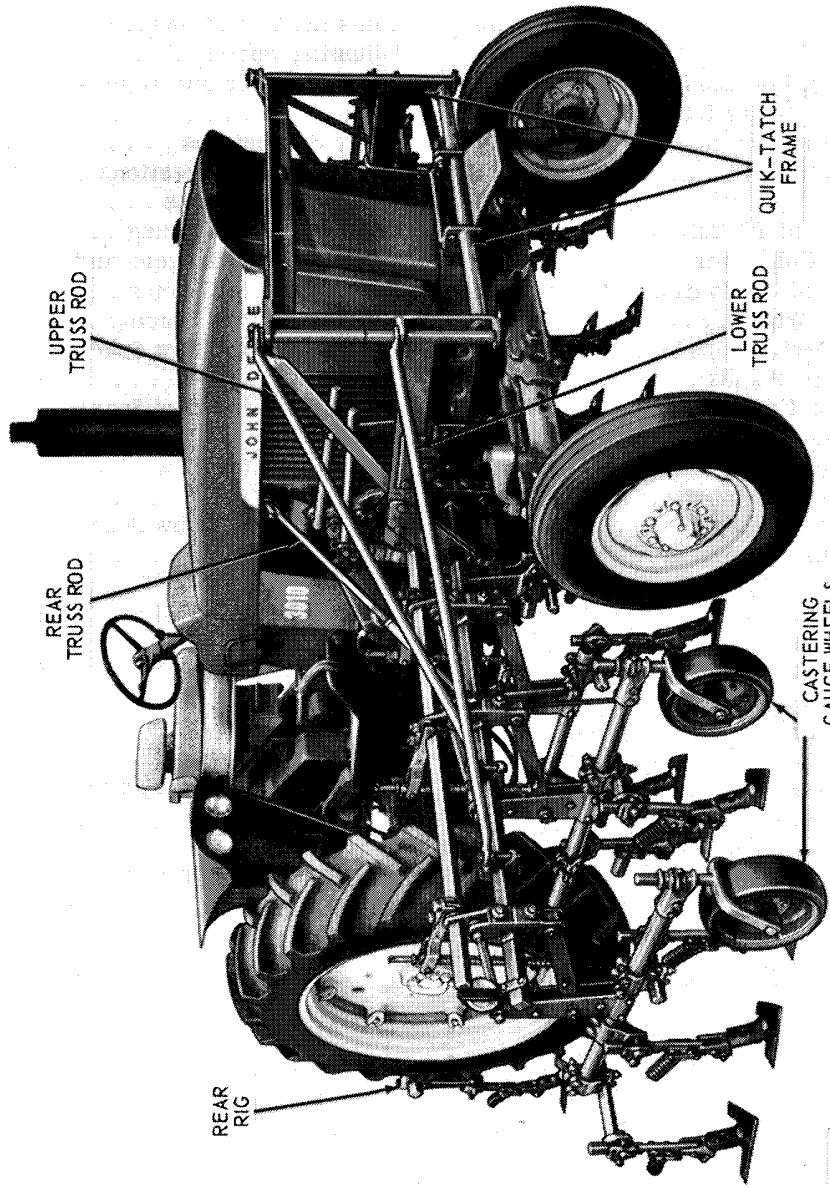
Date Purchased 19. . .

(To be filled in by Purchaser)

Price

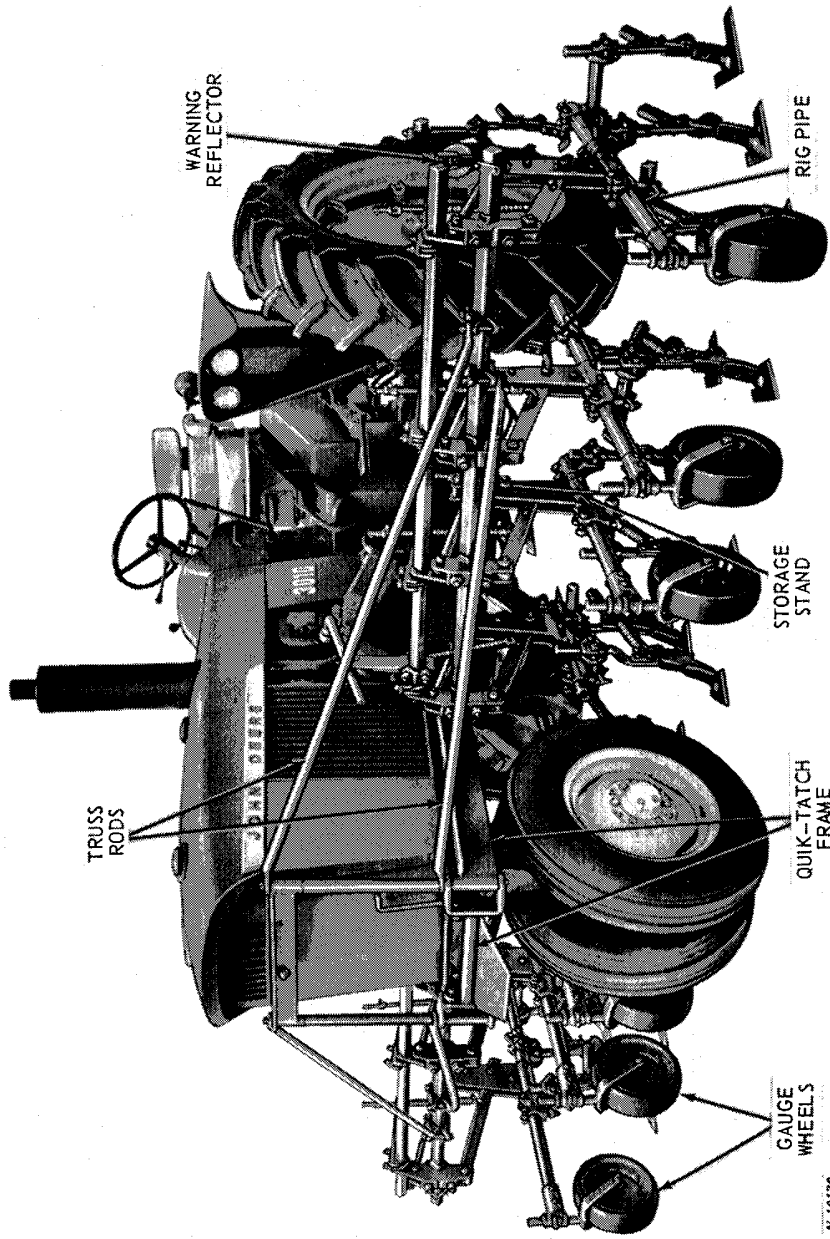
CONTENTS

	Page		Page
SPECIFICATIONS	5-7	Height of Shanks in Clamps	20
OPERATION	8-35	Adjusting Tilt of Sweeps ..	21
Controls	8-9	Adjusting Spring-Trip . . .	22
Timing Rockshaft Arm . . .	9	No. 2 Lift Pipe and Adjust- ing Lever	23
Tractor Tire Inflation . . .	9	Safety Suggestions	24
Leveling Front Cultivator Frames	10-11	Maintenance Suggestions .	25
T4 Cultivator	10	Storage Suggestions	25
A2 and T2 Cultivators ..	10	Front Rig Row Spacing . . .	26-35
A4 Cultivator	11	Setting Rig Hangers and Crossarm Clamps . . .	26
Depth of Cultivation	11	Checking Row Spacing ..	27
Gauge Wheels	12	T2 Cultivator Row Spac- ing	27-28
Rig Depth Stops	13	A2 Cultivator Row Spac- ing	29-31
Storage Stands	13	T4 Cultivator Row Spac- ing	31-33
Tilting Front Rigs	13	A4 Cultivator Row Spac- ing	33-35
Height of Lift of Front Rigs	14	SWEEPS AND SHOVELS . . .	36-39
Adjusting Rig Lift Rods ..	15	SPECIAL EQUIPMENT , . . .	40-51
Flexibility of Rigs with Gauge Wheels	16	LUBRICATION	52
Adjusting Down Pressure on Front Rigs	17	DETACHING CULTIVATOR FROM TRACTOR	53-56
Overriding Stop on Cyl- inder	17	ATTACHING CULTIVATOR TO TRACTOR	57-61
Setting for Deeper Cultiva- tion	17		
Rear Rigs	18-19		
Outer Rear Rigs and Drawbar Mounted Center Rig	18		
Tool Bar Type Rear Rig	19		
Clamps, Shanks and Cross- arms	20		



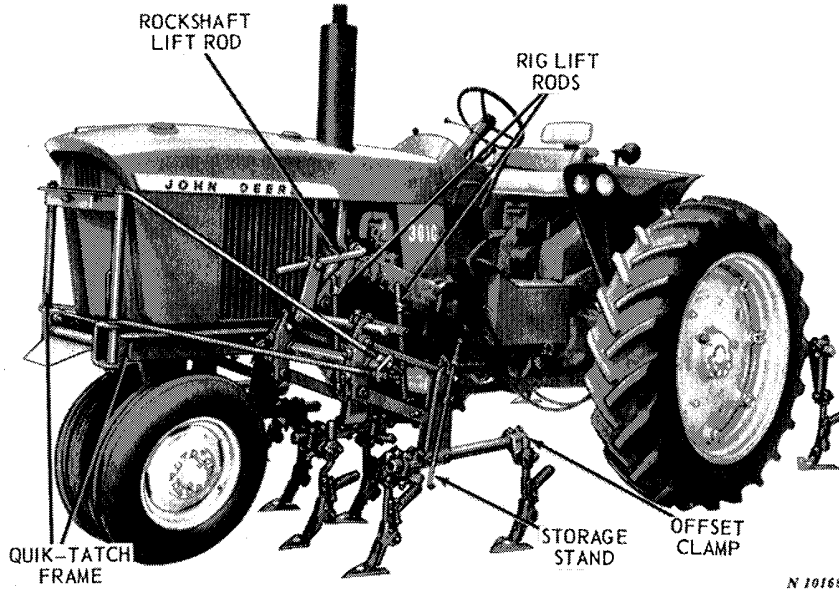
*John Deere A4F Cultivator with Regular Spring-Trip Shanks and Universal Sweeps
on 3010 Row-Crop Tractor*

N 10177



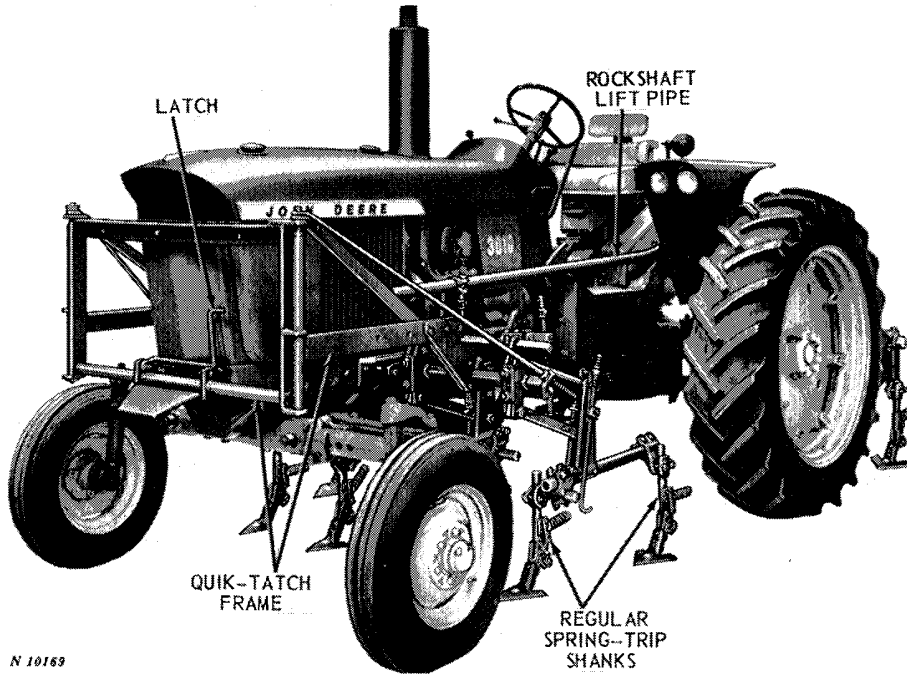
N 10170

John Deere T4F Cultivator with Regular Spring-Trip Shanks and Sweeps
on 3010 Row-Crop Tractor



N 10168

John Deere T2F Cultivator with Regular Spring-Trip Shanks and Sweeps on 3010 Row-Crop Tractor



N 10169

John Deere A2R Cultivator with Regular Spring-Trip Shanks and Sweeps on 3010 Row-Crop Tractor

SPECIFICATIONS

CULTIVATOR MODELS

A2R, T2R, A4R, and T4R are operated by rear rockshaft on tractor.

A2F, T2F, A4F, and T4F are operated by front rockshaft on tractor. The A2F and A4F are the only cultivators that will work on the 3020 and 3010 Row-Crop Utility Tractors. The T2F and T4F are the only cultivators that will work on the 2010 Tractor.

TRACTORS

T2 AND T4 CULTIVATORS

John Deere 2010, 3020, 4020, 3010, and 4010 Row-Crop Tractors with Single or Double Front Wheels, (except T4 on 3020 or 3010 with 6.50 x 16 single wheel with 8-ply tire). The 2010 must be equipped with sway block supports when 120A, 120B, 140A, 140B, and 160A rear rigs are used.

A2 AND A4 CULTIVATORS

John Deere 3020, 4020, 3010, and 4010 Row-Crop Tractors with adjustable tread front axle.

John Deere 3020 and 3010 Row-Crop Utility Tractors with adjust-

able tread front axle (50 to 79 inches) and long wheel base. The tractor must also be equipped with a front-mounted rockshaft and a 3-point hitch. The cultivator cannot be mounted on a 3020 or 3010 Row-Crop Utility Tractor which has a short wheel base (81-1/2 inches), a fixed tread front axle (55-1/2 and 61 inches), or a rear muffler and tail pipe.

ROW SPACING

A4 and T4 Cultivator — 36 to 42-inch rows (Set 40 inches at factory).

A2 and T2 Cultivator — 28 to 42-inch rows (Set 40 inches at factory).

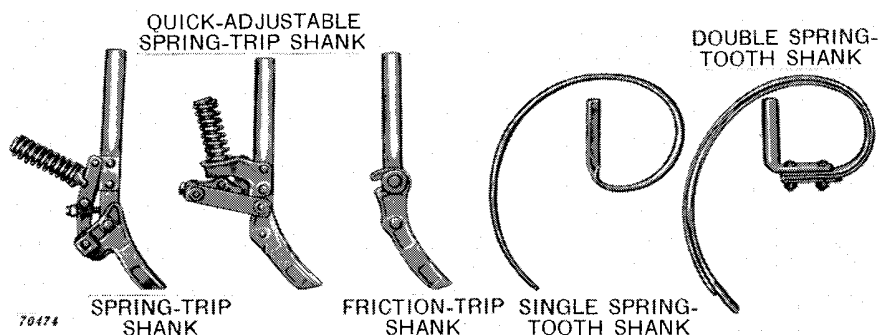
CULTIVATOR WEIGHT

T2 — 600 pounds (approximately)
 A2 — 860 pounds (approximately)
 T4 — 1500 pounds (approximately)
 T4 — 1550 pounds (approximately)

OPTIONAL EQUIPMENT

A2R AND T2R CULTIVATORS ON 3020, 4020, 3010, OR 4010 ROW-CROP TRACTORS

No. 2 Lift Pipe and Adjusting Levers.



6 Specifications

FRONT RIG EQUIPMENT

A2 AND T2 CULTIVATORS

Eight Single Spring-Tooth Shanks with Y722AN Shovels.

Eight Double Spring-Tooth Shanks with Y786AN Shovels.

Eight Friction-Trip Shanks with Universal Sweeps.

Eight Regular Spring-Trip Shanks with Universal Sweeps.

Eight Quick-Adjustable Spring-Trip Shanks with Universal Sweeps.

A4 AND T4 CULTIVATORS

Eighteen Single Spring-Tooth Shanks with Y722AN Shovels.

Eighteen Double Spring-Tooth Shanks with Y786AN Shovels.

Eighteen Regular Spring-Trip Shanks with Universal Sweeps.

Eighteen Friction-Trip Shanks with Universal Sweeps.

Eighteen Quick-Adjustable Spring-Trip Shanks with Universal Sweeps.

REAR RIGS

TOOL BAR TYPE

50A Series Tool Bar type for 3-point hitch.

WITH 3-POINT HITCH MOUNTED CENTER RIG

110A and 110B Series Parallel Lift Type.

130A and 130B Series Straight Lift Type.

150A Series Offset Beam Type.

WITH DRAWBAR-MOUNTED CENTER RIG

120A and 120B Series Parallel Lift Type.

140A and 140B Series Straight Lift Type.

160A Series Offset Beam Type.

WITHOUT CENTER RIG (For Use with No. 3 Rig Attachment on T2 and T4 Cultivators):

170A and 170B Series Parallel Lift Type.

180A and 180B Series Straight Lift Type.

190A Series Offset Beam Type.

NOTE: "B" Series or 50A Series Rear Rig is recommended for use when tractor is equipped with cane and rice tires.

SHANK EQUIPMENT FOR REAR RIGS

Regular Spring-Trip Shanks.

Quick-Adjustable Spring-Trip Shanks.

Single Spring-Tooth Shanks.

Friction-Trip Shanks.

Double Spring-Tooth Shanks for use on 56A Rear Rig only.

Long Regular Spring-Trip Shanks for use on 52A Rear Rig only.

Long Quick-Adjustable Spring-Trip Shanks for use on 53A Rear Rig only.

GAUGE WHEELS

Castering (Regular on A4 and T4, special on T2 Cultivator).

Rigid (Optional on A4 and T4, special on T2 Cultivator).

SWEEPS AND SHOVELS

A wide variety of types and sizes available.

SPECIAL EQUIPMENT

A2, T2, A4, AND T4 CULTIVATORS

- No. 1 Center Attachment.
- No. 21 Spring-Tooth Attachment.
- No. 1 Knife Attachment.
- No. 3A Rotary Hoe Attachment.
- No. 1 Listed Crop Attachment.
- Spread Arch.
- Spread Bar.
- Rig Bar.
- Disk Hillers.
- Rear Rig Stop.
- No. 4 Minimum Tillage Attachment (A4 and T4 only).
- Storage Stands.
- Shields — frame-mounted, rig-mounted, hooded.
- Various planter and fertilizer attachments.

A2 AND T2 CULTIVATORS ONLY

- AB690E and AB690F Bean Harvesters.
- 96E Peanut Puller.

T2 CULTIVATOR ONLY

- Front Rig Depth Stops (outside rigs).
- 12D and 14B Vine Turner Attachments.
- Gauge Wheels (outside rigs).

A2 CULTIVATOR ONLY

- 12E and 14C Vine Turners.

T2 AND T4 CULTIVATORS ONLY

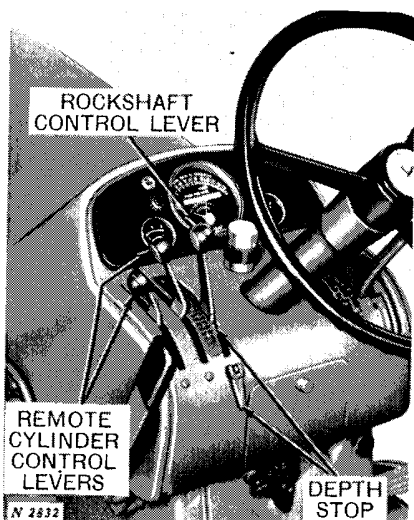
- No. 3 Rig Attachment (3020, 4020, 3010, and 4010 Tractors only).

(Specifications and design subject to change without notice)

OPERATION

CONTROLS

3020, 4020, 3010 AND 4010 TRACTORS



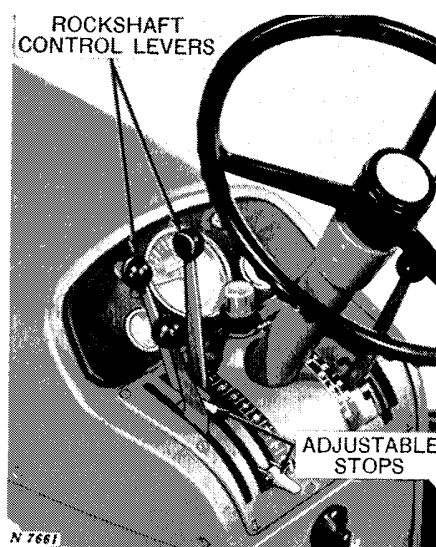
The A2R, T2R, A4R, T4R Cultivators on a 3020, 4020, 3010, or 4010 Tractor are controlled by the rockshaft control lever on the tractor. Push the lever forward to raise the cultivator (both front and rear rigs) and pull it to the rear to lower the cultivator.

When the A2F, T2F, A4F, or T4F Cultivator is on a 3020, 4020, 3010 or 4010 Tractor, the front rigs are controlled by the remote cylinder operating levers. The rear rigs are controlled by the rockshaft control lever.

Install hydraulic cylinders and operate the controls as instructed in your tractor operator's manual.

2010 TRACTORS

Dual Hydraulic System



The T2F or T4F Cultivator on a John Deere 2010 Tractor with a dual hydraulic system is controlled by the rockshaft control levers on the tractor.

To operate the front rigs together, but independent of the rear rig, set the tractor hydraulic system for independent lift arm operation.

Only the left-hand rod should be used from the rear rockshaft to the front rockshaft. Set the two sides of the front rockshaft for parallel operation.

The left-hand rockshaft control lever controls the front rigs and the right-hand lever controls the rear rig.

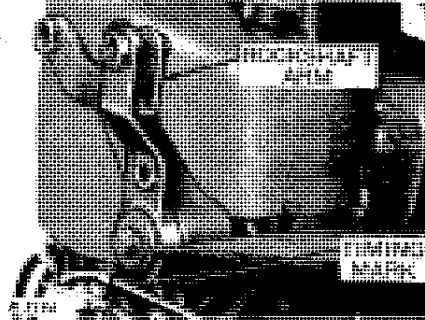
To operate the front rigs independently, set the tractor hydraulic system and front rockshaft for independent lift arm operation. The tractor must have a dual control front rockshaft. The left-hand rockshaft control lever controls the left-hand side of the cultivator and the right-hand lever controls the right-hand side of the cultivator and the rear rigs. See your tractor operator's manual.

If it is desired to have the front and rear rigs operate simultaneously, set the tractor hydraulic system and front rockshaft for parallel lift arm operation. Use the right-hand control lever to control the cultivator. See your tractor operator's manual.

Single Hydraulic System

The T2F and T4F Cultivator on a John Deere 2010 Tractor with single hydraulic system is controlled by the rockshaft control lever on the tractor. Moving the control lever rearward raises both cultivator front and rear rigs while moving the lever forward lowers the rigs. See your tractor operator's manual.

TIMING ROCKSHAFT ARM Rear Rockshaft Operated Cultivators on 3020, 4020, 3010, and 4010 Tractors



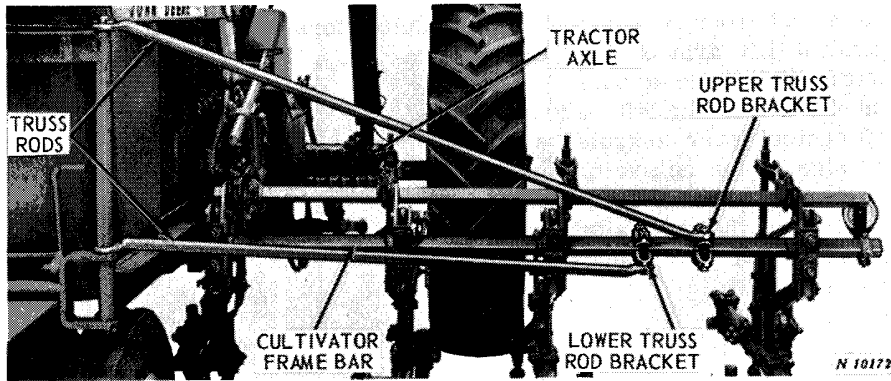
It is important that the rockshaft arms attached to the tractor to operate the cultivator are properly timed. If the cultivator is equipped with a rear rig and the arms are not timed, it could mean the front and rear rigs will not operate at the same depth.

The rockshaft arm is timed properly when the timing mark on the arm is in line with the timing mark on the tractor rockshaft.

TRACTOR TIRE INFLATION

Refer to your tractor operator's manual for operating instructions on tractor tire inflation pressures.

LEVELING FRONT CULTIVATOR FRAMES



T4 Cultivator

In order to do a good job of cultivating and to simplify attaching the cultivator to the tractor, the cultivator frame bars should be level.

To check if they are level, stand in front of the tractor and sight over the cultivator frame bar and under the tractor rear axle.

T4 CULTIVATOR

If the cultivator frame bars are not adjusted properly, loosen both truss rod brackets.

Adjust the lower truss rod bracket on the frame bar so the cultivator frame is at a right angle to the frame of the tractor.

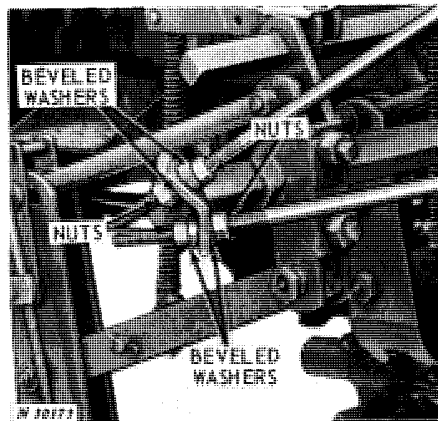
To move the frame forward, move the lower truss rod bracket away from the tractor. To move the frame to the rear, move the lower truss rod bracket toward the tractor.

If the frames are not level, move the upper truss rod bracket away from the tractor to raise the outer end of the frame. To lower the outer

end of the frame, move the upper truss rod bracket toward the tractor.

Be sure to tighten all nuts on the truss rod brackets securely.

A2 AND T2 CULTIVATORS



T2 Cultivator

Adjust the nuts on the truss rods (only one rod is used on each side of A2 Cultivator) until the frames are level and parallel with the rear tractor axle. Adjust the beveled washers so the truss rods do not bend.

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