

3000 SERIES ROD WEEDER ATTACHMENT



OPERATORS MANUAL 3000 SERIES ROD WEEDER ATTACHMENT

OMN159042 L5 English

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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

This operator's manual contains information regarding the assembly, operation and adjustment of your 3000 Series Rod Weeder Attachment.



Study this manual carefully and keep it handy in a safe place for future reference.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any ques-

tion that may arise regarding the operation of your rod weeder attachment. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

Occasionally, your rod weeder attachment may need new parts to replace worn parts. See your John Deere dealer for prompt and efficient parts service.

When ordering parts, provide your dealer with the model number of your rod weeder attachment and the year purchased. This information will help him to identify the part you need. We suggest that this information be recorded immediately in the space provided below, thereby making it available for future reference.

LOCATION REFERENCES

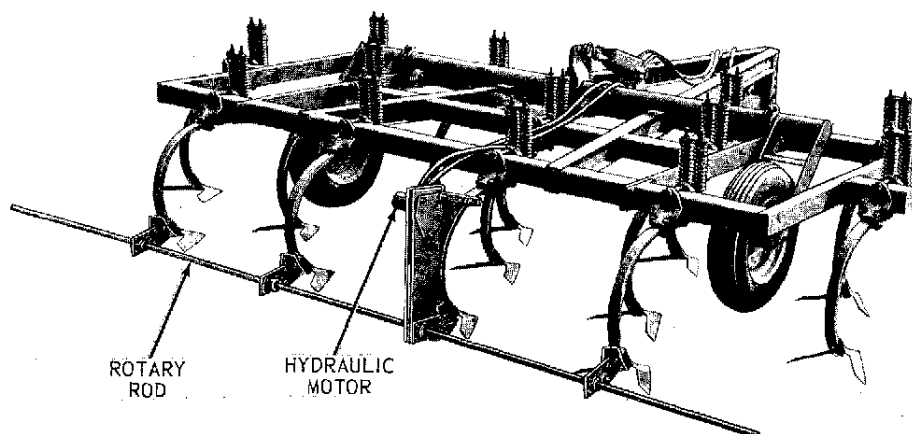
Right- and left-hand sides referred to are determined from a position at the rear of the machine facing in the direction of travel.

JOHN DEERE 3000 SERIES ROD WEEDER ATTACHMENT

Model No.
Date Purchased 19

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N 12783

John Deere 3014 Rod Weeder Attachment on 114 Chisel Plow

SPECIFICATIONS

The 3000 Rod Weeder can be attached to flat spring standards, flat cushion-spring standards or stiff standards on 100 and 150 Series Chisel Plows and 500D and 500E Series Tool Bars.

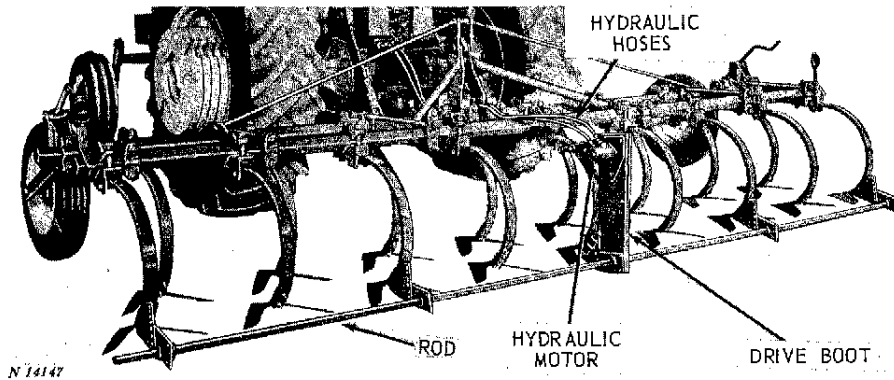
The rotary rod is driven by a hydraulic motor that is operated by the tractor hydraulic system.

The 3000 Rod Weeder Attachment can be used with John Deere 3010, 3020, 4010, 4020 and 5010 Tractors only. Tractor must be equipped with a remote cylinder control valve and breakaway coupling to operate the rod weeder.

Specifications and design subject to change without notice.

| Tool Bar | | Rod Weeder Model |
|-------------|---------------|------------------|
| Model | Size | |
| 512D, 582HD | 12 ft. Single | 3512 |
| 512E, 582HE | | |
| 514D, 514E | 14 ft. Single | 3514 |
| 516D, 516E | 16 ft. Single | 3514 |
| 520D, 520E | 10 ft. Double | 3520 |
| 522D, 522E | 12 ft. Double | 3522 |
| 524D, 524E | 14 ft. Double | 3524 |
| 526D, 526E | 16 ft. Double | 3526 |
| 528D, 528E | 8 ft. Double | 3528 |

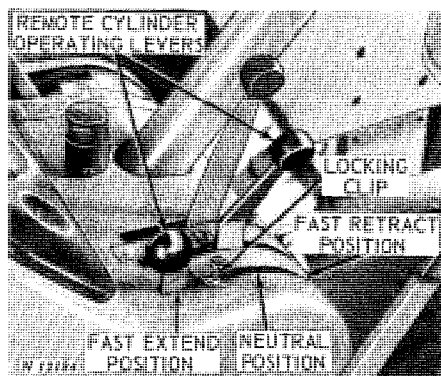
| Chisel Plow | | Rod Weeder Model |
|-------------|--------|------------------|
| Model | Size | |
| 110, 160 | 10 ft. | 3010 |
| 112, 162 | 12 ft. | 3012 |
| 114 | 14 ft. | 3014 |
| 116 | 16 ft. | 3016 |
| 158 | 8 ft. | 3058 |
| 164 | 14 ft. | 3064 |



John Deere 3526 Rod Weeder Attachment on 526D Tool Bar

OPERATION

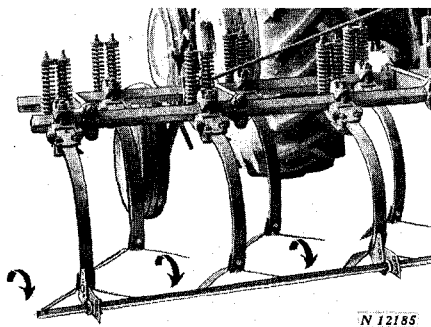
CONTROLS



Either remote cylinder operating lever can be used to control the 3000 Series Rod Weeder. Push the lever all the way forward to the fast extend position to operate the rod. The clip holds the lever in operating position. Return the lever to the neutral position to stop the rod.

If the rod weeder plugs, move the lever to the fast retract position to clear the rod.

HYDRAULIC HOSES



The hoses should be connected to the tractor couplers so the rod revolves in a clockwise direction when viewed from the left end.

If the rod rotates in the wrong direction when the remote cylinder operating lever is in the fast extend position, reverse the hydraulic hoses in the tractor couplers.

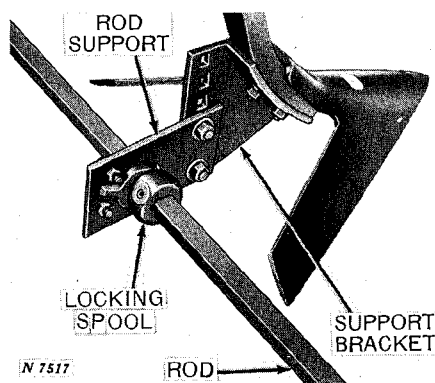
CAUTION: Always stop the rod weeder before dismantling from the tractor. If you need to check rod rotation, have someone at the controls while you do so.

LEVELING TOOL BAR OR CHISEL PLOW

Before adjusting the rod weeder, level the chisel plow or tool bar from side to side and from front to rear. Refer to the chisel plow or tool bar operator's manual. If necessary, allow the front end to ride slightly lower than the rear.

Tighten springs and clamps on rear standards before adjusting the rod weeder.

LEVELING ROD WEEDER



The rod weeder will do a better job if it is level with the tool bar or chisel plow. First, center the rod behind the rear standards by loosen-

4 Operation

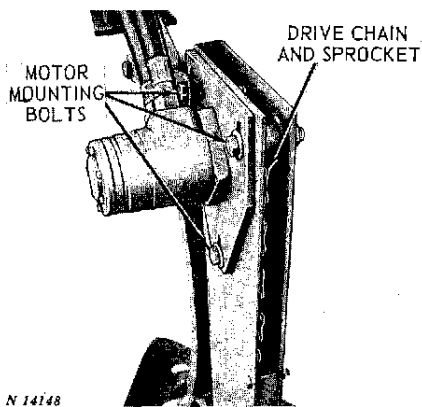
ing and then tightening the set screw in the locking spool.

Loosen the bolts holding each rod support to the support bracket and maneuver the rod into a level position. With the rod level and the bolts tight, the rod shouldn't bind or catch as it revolves.

ADJUSTING ROD DEPTH

The rod can be set in any of four working depths by changing the position of the rod supports on the support brackets.

ADJUSTING DRIVE CHAIN



To adjust the main drive chain, loosen the three bolts holding the hydraulic motor to the drive boot and move the motor and sprocket assembly until the chain attains proper tension.

Don't pull the chain too tight. This will cause the chain to wear rapidly. If allowed to ride too loose, the chain will wear down the sprockets.

Don't oil chain during operation. Clean chain with diesel fuel and coat with heavy oil before storing rod weeder. Clean chain before using.

ROD SPEED

Before going to the field, make sure the rod turns at the correct speed . . . 181 rpm with 24-tooth sprocket or 128 rpm with 17-tooth sprocket on hydraulic motor drive shaft.

Check rod rpm with tractor warm and rod turning freely under no load.

If rod turns too fast or too slow, adjust slotted screw on tractor hydraulic selective control valve to increase or decrease oil flow until rod attains proper speed. See tractor operator's manual.

IMPORTANT: If tractor has Power Shift transmission, check oil temperature during rod weeder operation. If indicator hand on temperature gauge goes into red zone, stop tractor and see tractor operator's manual on transmission operation.

INCREASING ROD TORQUE

During operation, if rod doesn't turn steadily under load, replace the 24-tooth sprocket with the 17-tooth sprocket on the hydraulic motor drive shaft to increase rod torque.

SAFETY SUGGESTIONS

Never dismount from the tractor without first stopping the rod weeder.

When transporting the tool bar or chisel plow on road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices may be obtained from your John Deere dealer.

TROUBLE SHOOTING

Use this guide to trace the cause and possible remedies for problems you may encounter with the hydraulic motor. For genuine parts and additional service, see your John Deere dealer.

MOTOR TURNING WRONG DIRECTION

| Possible Cause | Possible Remedy |
|--|---------------------------|
| Hydraulic hoses incorrectly connected. | Reverse hose connections. |

MOTOR WILL NOT TURN

| | |
|---|--|
| No oil pressure. | Check hose connections and position of remote cylinder operating lever. |
| Obstruction in drive boot. | Remove obstruction and adjust drive chain. |
| Shaft seized in housing because of misalignment or excessive side load. | Replace housing assembly if damaged. Correct alignment, reduce load. |
| Shaft broken because of misalignment or excessive side load. | Replace shaft assembly. Check housing for wear and replace if necessary. Correct alignment, reduce load. |

MOTOR TURNING TOO SLOW

| | |
|---|--|
| Insufficient oil flow. | Increase oil flow by adjusting screw on tractor hydraulic selective control lever. |
| Worn motor. | Replace worn parts or motor. |
| High oil temperature causing motor to slip. | Check oil supply, add oil if necessary. Check tractor oil cooler, clean if necessary. See tractor operator's manual. |

OIL LEAKING AT PORTS

| | |
|--------------------------|-----------------------------|
| Hose fittings not tight. | Tighten fittings carefully. |
| Damaged O-ring. | Replace O-ring. |

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