

RM SERIES ROW-CROP CULTIVATORS



JOHN DEERE

OPERATORS MANUAL RM SERIES ROW-CROP CULTIVATORS

OMN159539 G0 English

DES MOINES WORKS
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LITHO IN THE U.S.A.
ENGLISH



INTRODUCTION



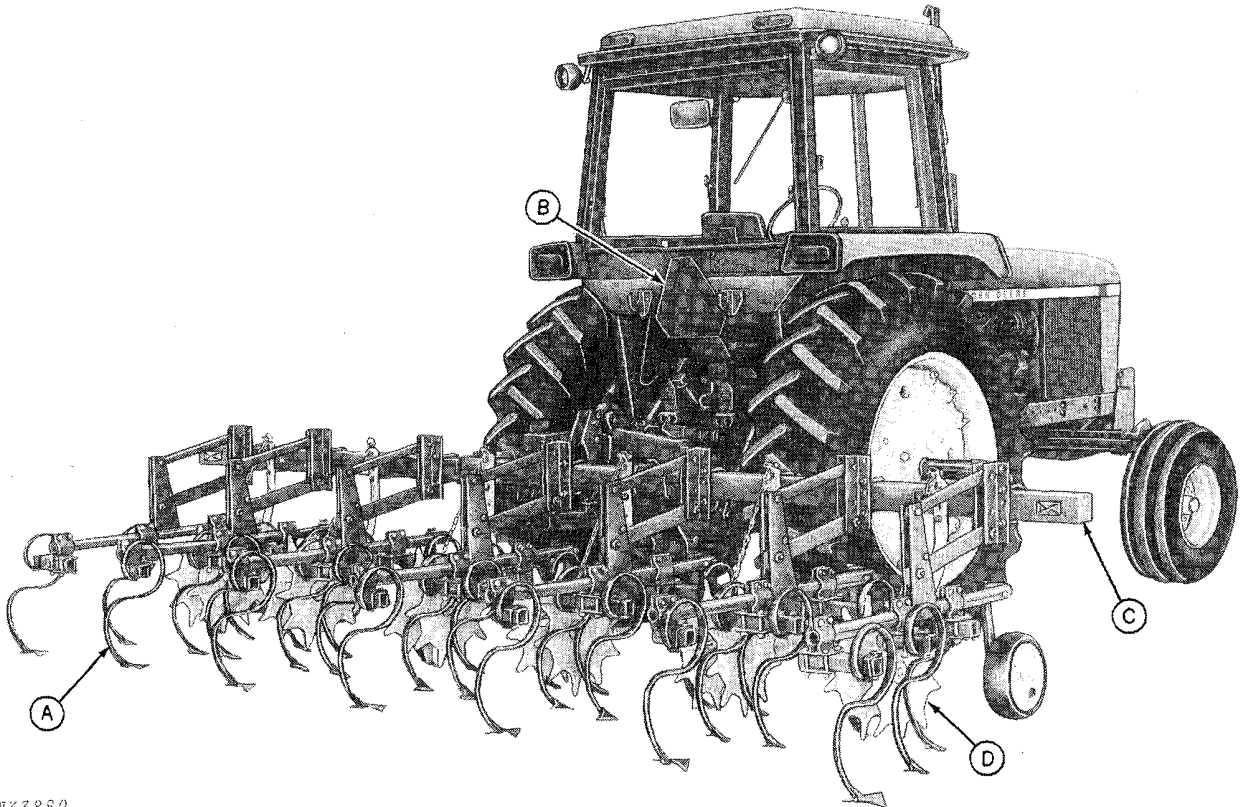
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This publication contains both the US customary units of measurement and the SI Metric equivalents.

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

Your warranty appears on your copy of the purchase order which you should have received from your dealer.

Record your model and serial number on page 67.



N33880

A—S-Tine Shank

B—SMV Emblem

C—4 x 4-Inch (102 x 102 mm) Frame

D—Rolling Shield

RM630T S-Tine Shank Cultivator with Rolling Shields

RM SERIES ROW-CROP CULTIVATOR

PREDELIVERY CHECK LIST

After the cultivator has been completely assembled, inspect to be sure it is in good running order before delivering to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- SMV emblem and reflectors installed.
- All grease fittings have been lubricated, pages 44-47.
- Tires are properly inflated.
- Make sure row-spacing is set per customer order.
- Make sure all the customer-ordered attachments have been installed.
- Any parts scratched in shipment have been touched up with paint.
- This cultivator has been thoroughly checked and to the best of my knowledge, is ready for delivery to the customer.

Signature

Date

DELIVERY CHECK LIST

At the time the cultivator is delivered, the following check list is a reminder of information which should be conveyed directly to the customer. Check off each item as it is fully explained to customer.

- Tell the customer to use the proper tools.
- Explain to the customer that the life expectancy of this or any other machine depends on regular lubrication as directed in the operator's manual.
- Give the operator's manual to the customer and explain all operating adjustments.
- Make the customer aware of all the safety precautions that must be exercised while using this cultivator.
- When the cultivator is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell customer to check local governmental regulations.

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- To the best of my knowledge, this machine has been delivered ready for field use and the customer has been fully informed as to proper care and operation.

Signature

Date

AFTER-SALE CHECK LIST

The following is a suggested list of items to be checked at a dealer-customer mutually agreeable time during the first operating season.

- Check with the customer as to the performance of the cultivator. Make certain the proper operating adjustments are understood.
- If possible, operate the cultivator to see that it is functioning properly.
- Acquaint the customer with any special attachment which will help do a better job.
- Go over entire cultivator for loose or missing bolts.
- Check for broken or damaged parts.
- Ask the customer if the recommended periodic lubrication has been performed.
- Review the operator's manual with the customer and stress the importance of proper lubrication and safety precautions.

OWNER REGISTER

Name _____

Post Office _____

County _____ State _____ Zip _____

Model and Serial Number _____

Date Sold _____

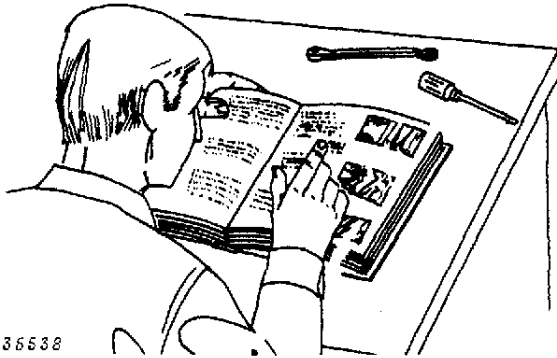


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Safety



N35538

Operate Safely

DO NOT operate cultivator without reading this operator's manual.

DO NOT allow anyone to ride on cultivator when it is in motion. Observe operation only from the tractor platform.

Always shut off tractor engine and shift to "park" when leaving tractor. Remove key when leaving tractor unattended.

DO NOT operate close to a ditch or creek.

Slow down when turning.

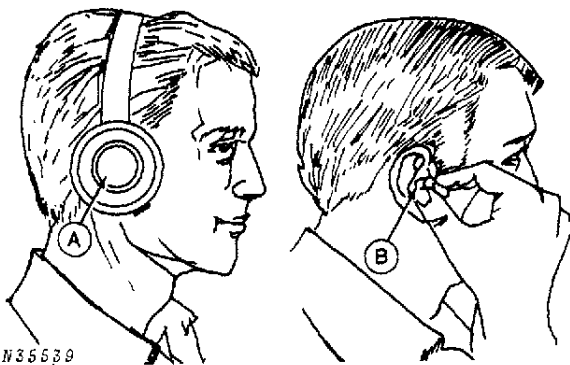
Drive slowly over rough terrain.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

Wear relatively tight and belted clothing to prevent being caught on some part of the machine.

Lower cultivator when not in use.

For tractor stability and operator safety, tractor front end weights may be required.



N35539

Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

A—Earmuffs
B—Earplugs

Avoid Fires

DO NOT refuel with the tractor engine running.

DO NOT smoke or use a lantern when refueling.

Transport Safely

DO NOT fail to latch tractor brakes together.

Shift tractor into a lower gear when transporting down steep slopes or hills.

Keep the SMV emblem and reflectors clean and visible from the rear.

Stop slowly.

When transporting the cultivator on a 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 are available from your John Deere dealer.

Practice Safe Maintenance

DO NOT lubricate, adjust, or clean the cultivator while it is in motion.

Always support cultivator frame and rigs on stands or blocks before working under or around cultivator.

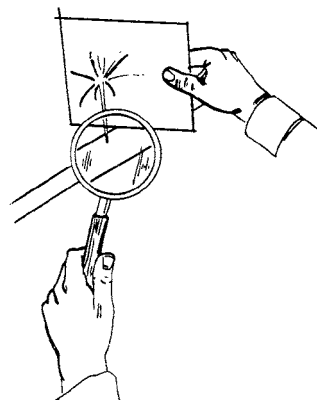
Shut off engine and remove key when working on cultivator.

When mounting a tire on a wheel or rim, failure to follow proper procedure can produce an explosion which can result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged.

Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

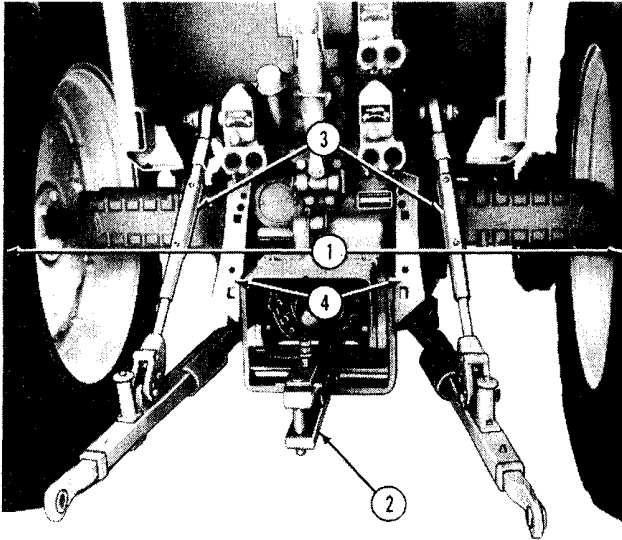
If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



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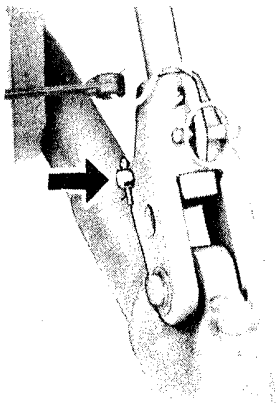
Preparing Tractor



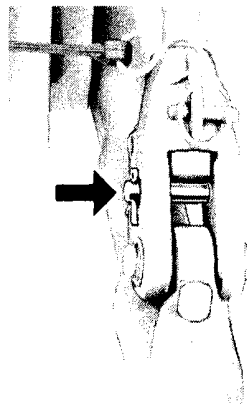
N34719

CAUTION: Make sure PTO guard and master shield are both installed on tractor.

1. Set tractor wheels for desired row spacing so wheels are centered between the rows. The dimension is measured from the center of the tractor to the center of each tire.
2. Place drawbar in short centered position or remove it.
3. Adjust lift links to minimum length.
4. Position sway blocks in upper wide setting.



R 30029



R 30030

5. Set lift link pins in lower holes to lock out lateral float. If stabilizer wheels are used, set lift link pins in upper holes.

6. (Split Rockshaft Lift Models) Turn metering valves to "slow to medium" position.
7. Move rockshaft selector lever to "Zero" (depth control) position. On earlier models tractors, use "D" (depth control) position.

8. Determine front ballast as follows:

Step I — Find the size of your cultivator in the table at the right and enter its Implement Code on Line 1.

Step II — Enter an Implement Code for each attachment or option used on your cultivator, on Line 2.

Step III — Add Implement Code of cultivator and Implement Code(s) for each attachment used to obtain the Total Implement Code.

Step IV — Refer to tractor operator's manual to determine required tractor front ballast.

IMPORTANT: 1) If the total implement code exceeds the maximum implement code listed for a particular tractor model, the implement-attachment combination is not recommended for that tractor.

2) The total load on any tractor wheel due to the weight of the implement-attachment combination and tractor equipment, should not exceed the carrying capacity of the tractor tires.

Refer to tractor operator's manual for weight limitations applicable to your tractor and tires.

NOTE: Ballast recommendations provide for adequate transport stability at recommended speeds. Additional front ballast may be required for satisfactory field operation due to sudden or extreme forces on the tractor hitch, such as can occur when removing cultivator from the ground and turning at row ends, or during field transport over very rough terrain.

Addition of integral sprayers (spray tanks and frame) provides additional front ballast which will offset or substitute for some amount of tractor front end weighting.

Cultivator Model	Implement Code
RM4	82
RM4T	52
RM4V	72
RM630	80
RM630T	71
RM6	133
RM6T	85
RM6V	110
RM820	102
RM820T	85
RM830	110
RM830T	102
RM830B	121
RM8	177
RM8T	120
RM8V	145
RM1020	127
RM1020T	110
RM1220	145
RM1220T	127
RM1230	161
RM1230T	147
RM1230B	177
<i>Attachments or Options</i>	
Coulter (applies to each additional Coulter [RM4, RM4T, RM6T, RM8, 820T, 830T, 1230T, 820T, 1020T and 1220T])	3
Frame Gauge Wheel Frames with Wheels	4
Endways Transport without Wheels (Frame Gauge Wheels in field position)	16
Endways Transport with Wheels (Frame Gauge Wheels not used)	23
Split Rockshaft Lift	17
Spray Shields (4 row)	24
(6 row)	36
(8 row)	48
(12 row)	72
Rolling Shields (4 row)	8
(6 row)	12
(8 row)	16
(12 row)	24
Other Shields (4 row)	4
(6 row)	6
(8 row)	8
(12 row)	12
Line 1	—
Line 2	—
Total Implement Code	—

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