

6000 Hi Cycle® (Serial No. 3051-)



OPERATORS MANUAL

6000 Hi Cycle®
(Serial No. 3051-)

OMN159571 G1 English

**John Deere Des Moines Works
OMN159571 G1**

LITHO IN U.S.A. (REVISED)
ENGLISH





To The Operator



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.

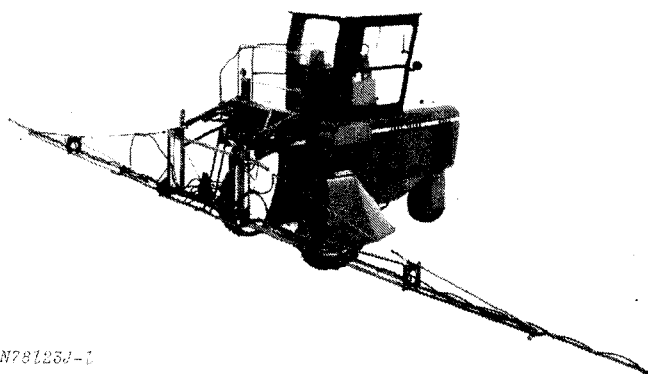
This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

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

The warranty on this sprayer appears on your copy of the purchase order which you should have received from your dealer when making your purchase. This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty.

Warranty and field improvements are a part of John Deere's product support program for customers who operate and maintain their equipment as described in this manual. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

Record serial numbers on page 83.



N78123J-1

JOHN DEERE 6000 HI-CYCLE

After the Hi-Cycle has been completely assembled and lubricated (see Technical Manual), inspect it thoroughly to be sure it is in good running order before delivering it 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 has been made.

DELIVERY CHECKLIST

- ☐ Give the Operator's Manual to the customer.
- ☐ Explain all controls and operation of the Hi-Cycle.
- ☐ Stress the importance of regular lubrication and service.
- ☐ Explain the hazards of self-propelled sprayers.
- ☐ Caution the customer about handling chemicals.
- ☐ Explain the importance of proper storage procedures at the end of the season.
- ☐ Explain the transporting procedures that must abide with local governmental regulations.
- ☐ To the best of my knowledge, this machine has been delivered in good condition and is ready for field use. The customer has been informed as to the proper care and operation of the machine.

AFTER-SALE CHECKLIST

- ☐ Drive the Hi-Cycle; operate the booms if possible.
- ☐ Check drive belts for proper tension.
- ☐ Check for leaks—coolant, oil, or solution. Make sure antifreeze is installed if necessary.
- ☐ Check fuel filter for sediment and clean if necessary.
- ☐ Remove solution line strainer and inspect.
- ☐ Check battery cables for tightness.
- ☐ Stress again the importance of safety and regular lubrication.
- ☐ Advise customer of any attachments that will improve the spraying operation and the handling of chemicals.

Signature _____

Date _____

Signature _____

Date _____

OWNER REGISTER

Name _____
Address _____
County and State _____
Chassis Serial Number _____
Engine Serial Number _____
Cab Serial Number _____



Contents

	Page
SAFETY	2-6
CONTROLS AND INSTRUMENTS	7-8
OPERATOR'S STATION	9-10
OPERATING THE ENGINE	11-14
Pre-Operating Checks	11-12
Starting the Engine	12-13
Cold Weather Operation	13-14
PREPARING HI-CYCLE	15-25
Wheel Tread Row Spacing	15
Booms	16-17
Nozzles	18-23
Filling the Solution Tank	24
Tire Pressure	25
OPERATING THE HI-CYCLE	26-35
Attaching and Detaching Booms	31
Solution System	32-33
Sprayer Calibration	33-34
TRANSPORTING	36-38
FUELS AND LUBRICANTS	39-41
LUBRICATION AND MAINTENANCE	42-47
TROUBLE SHOOTING	48-57
SERVICE	58-74
Sliding Tank Back	58
Tightening Drive Belts and Chains	59-60
Solution Controls	61-63
Nozzles and Check Valves	64
Electrical	64-66
Bleeding Fuel System	67-68
Clutch	68
Brakes	69
Adjusting Headlights for Transport	69
Servicing Air Conditioner	70
Servicing Engine Air Cleaner	71
Cleaning Cab Air System	72-73
Mounting Tires	74
STORAGE	75-77
SPECIFICATIONS	78-83
INDEX	84



Safety

Operate Safely

DO NOT operate Hi-Cycle without reading this operators manual.

DO NOT operate Hi-Cycle with more than one person on the operators platform.

DO NOT start engine with gears or levers engaged.

DO NOT operate close to a ditch or creek.

DO NOT fold or unfold boom near overhead wires.

DO NOT operate Hi-Cycle with person on rear deck.

Apply both brakes evenly when making emergency stops and come to a complete stop before reversing directions.

Drive slowly over rough ground.

Slow down when turning.

Always shut off engine and lock the brakes when leaving Hi-Cycle. Remove key when leaving Hi-Cycle unattended.

Keep hands, feet, and clothing away from moving parts.

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

Always engage clutch slowly and be prepared to disengage it if the front wheel begins to raise.

Avoid narrow tread setting when possible.

Keep the center of gravity low by keeping the solution tank full and by keeping the boom as low as possible.

If stuck in soft ground or a hole, back the Hi-Cycle out rather than trying to drive out straight ahead.

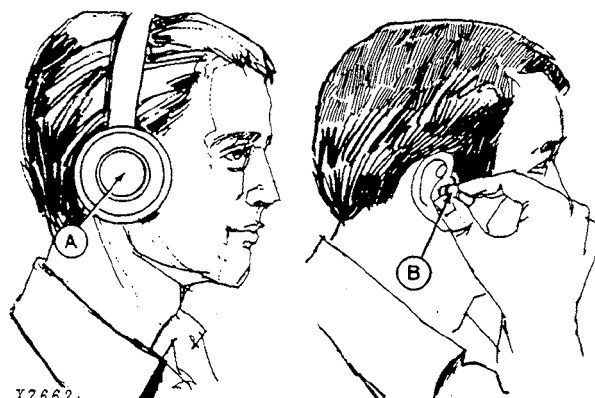
If equipped with cab, use seat belt at all times. Also, install fluid in rear tires.

If equipped with hydraulic power package attachment, do not leave handle up if system is not being used.

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.



X7662

A—Earmuffs
B—Earplugs

Transport Safely

DO NOT transport without first raising and folding the booms.

When driving the Hi-Cycle on a road or highway at night or during the day, use necessary 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.

KNOW the transport height of your Hi-Cycle and beware of overhead wires.

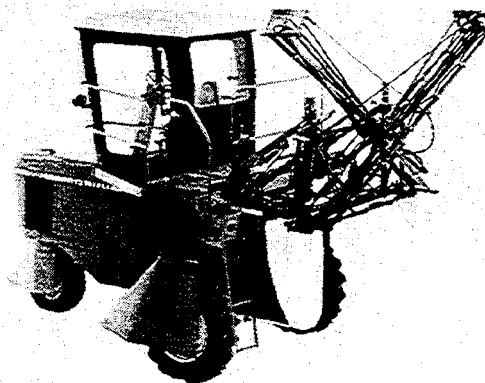
Latch brake pedals together.

Stop slowly to avoid “nose-diving.”

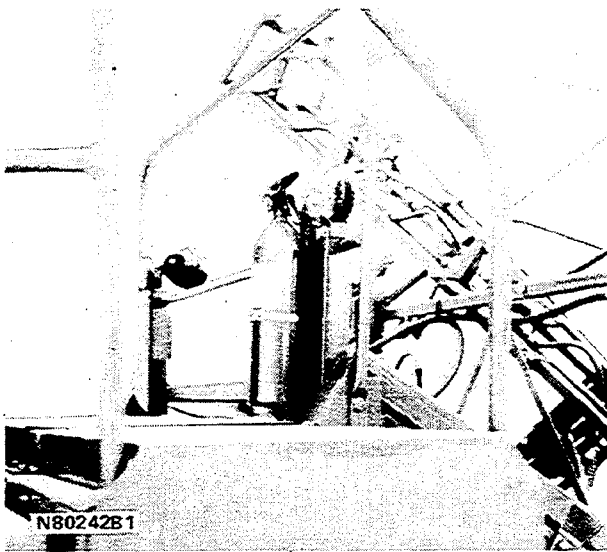
Keep the SMV emblem and reflectors clean and in place.

Always engage the lift arm safety stop.

When towing the Hi-Cycle with the tow bar attachment have the warning lights flashing, have the Hi-Cycle transmission in neutral, and do not exceed 25 mph (40 kmh).



H76281-1Y



Avoid Fires

DO NOT operate the Hi-Cycle without a fire extinguisher near by. The recommended extinguisher, AT62018, is a six pound (2.7 kg) unit, rated 2A40BC. The optional metal bracket (AT62019) is also recommended for mounting at the location shown.

DO NOT refuel with the engine running.

DO NOT smoke or use a lantern when refueling.

Practice Safe Maintenance

Shut off engine and remove key before adjusting Hi-Cycle.

DO NOT oil or adjust Hi-Cycle when it is in motion.

Always block the wheels when working on, around, or under the Hi-Cycle. Use a safety support if the wheels are removed.

DO NOT check the water level in an overheated radiator.

Shut off engine and remove key when working on Hi-Cycle.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

Mounting Tires

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may 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.

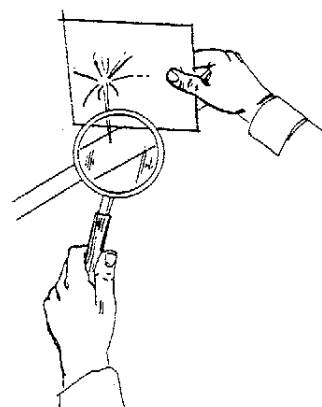
When seating tire beads on rims, never exceed 35 psi (241 kPa) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tire and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

Hydraulic Fluid

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure, be sure all connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood rather than hands, to search for 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.



1H33341

Handle Chemicals Wisely

Use the Chemical Transfer Pump, if available, to fill the Hi-Cycle tank.

Select an area to fill, flush, calibrate and decontaminate sprayer where pesticides will not drift or run off to contaminate people, animals, vegetation, water supply, etc. Locate area to provide absolutely no opportunity for children to contact pesticides.

If spray material comes in contact with the body, wash off IMMEDIATELY with clean water and detergent.

In event of nozzle clogging or other system malfunctions, stop engine, and release pressure from system.

Never place nozzle tips or other parts to tips to blow out trash. Have spare tips available for replacement.

To minimize spray drift hazards:

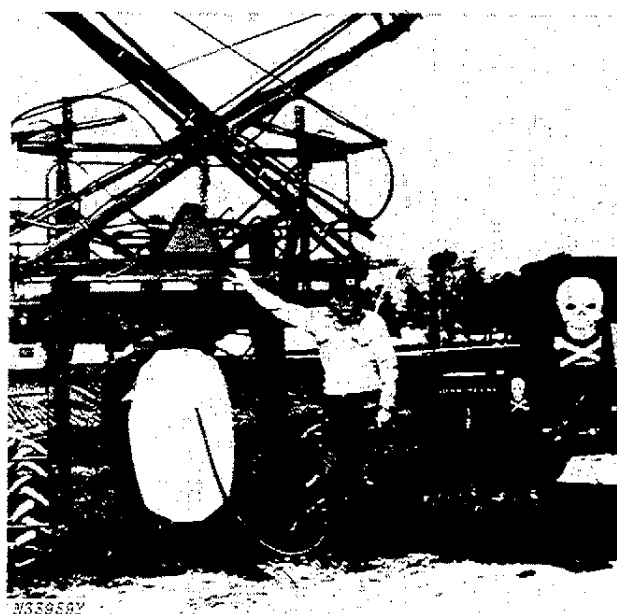
- Use large nozzle tips operated at lower pressures.
- Do not operate Hi-Cycle solution system at pressure over 50 psi (345 kPa) (3.5 bar).
- Do not spray when winds exceed 10 mph (16 km/h).

Wash spray residue from outside of Hi-Cycle to prevent corrosion.

Properly dispose of unused pesticide and flushing solutions.

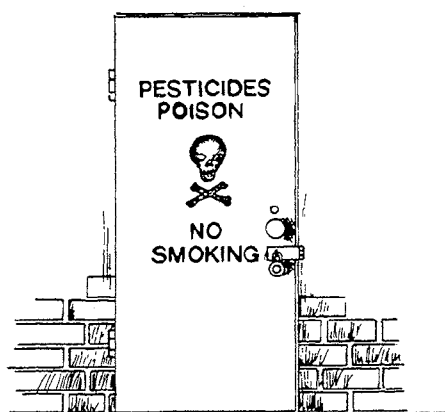
Decontaminate equipment used in mixing, transferring, and applying pesticide after use.

If equipped with cab, the air filter in the cab WILL NOT filter out harmful chemicals. Follow the instructions given by the chemical manufacturer.



1H33342

6 Safety



N33983

Store pesticides in a separate, plainly marked, LOCKED building.

Store pesticides in original containers with labels intact.

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