

430
Lawn and Garden
Tractor
(SN 010001 -)

John Deere Horicon Works
OMM79665 Issue H9
(This manual replaces OM-M79600)

LITHO IN U.S.A.
ENGLISH

Introduction

THANK YOU for purchasing a John Deere product.

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are U.S. customary units and their metric equivalents.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

WRITE IDENTIFICATION NUMBERS in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the

machine, also file the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

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. 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.

THE TIRE MANUFACTURER'S warranty supplied with your machine may not apply outside the U.S.



M35513
-UN-26AUG88

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



O53,ALERT -19-16JUN87

T81389 -UN-07DEC68

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



O53,SIGNAL -19-07OCT85

-19-30SEP88

TS187

READ SAFETY SIGNS CAREFULLY

Carefully read and follow all safety signs.

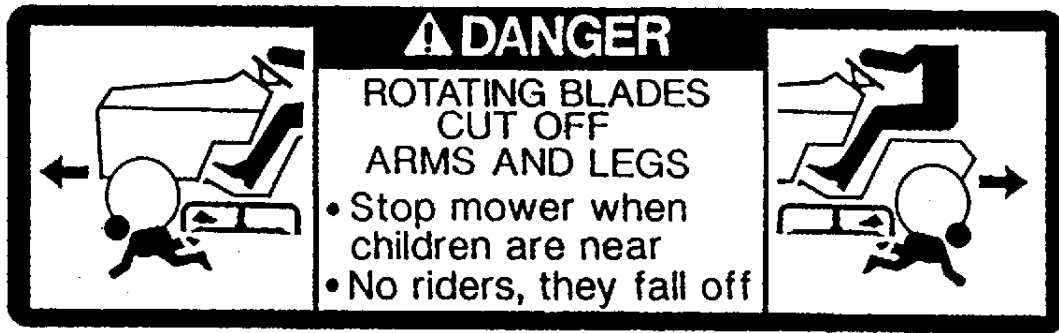
Keep safety signs in good condition. Replace any missing or damaged safety signs.



Pedestal Safety Sign

MX,SAR,A -19-12JUN89

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MX,SAAJ,N1 -19-12JUN89

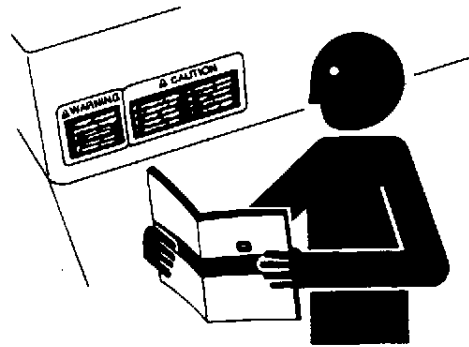
M61252 -19-11JAN89

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



O53,READ -19-23APR87

-UN-23AUG88

T5201

PROTECT CHILDREN

Keep children and others away when you operate machine.

BEFORE YOU BACK UP:

- Stop the PTO.
- Look behind tractor for children,

Do not let children operate tractor.

Never carry children. Do not let children ride on tractor, mower or any attachment.



MX,SAS,O -19-12JUN89

-UN-06SEP88

M41274



HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



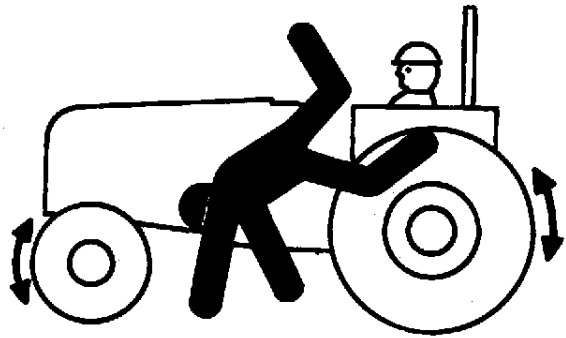
O53,FIRE1 -19-23APR87

TS202 -UN-23AUG88

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



O53,RIDER -19-03MAY88

TS290 -UN-23AUG88



AVOID TIPPING

Do not drive where machine could slip or tip.

Stay alert for holes, rocks, and roots in the terrain, and other hidden hazards. Keep away from drop-offs.

Slow down before you make a sharp turn.

Use care when pulling loads or using heavy equipment.

- Use only approved drawbar hitch points.
- Limit loads to those you can safely control.
- Use counterweights or wheel weights when suggested in this operator's manual.

Reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control. Be especially cautious when changing direction on slopes.

Do not stop or start suddenly when going uphill or downhill.

If machine stops going uphill:

- Stop the PTO.
- Back down slowly.



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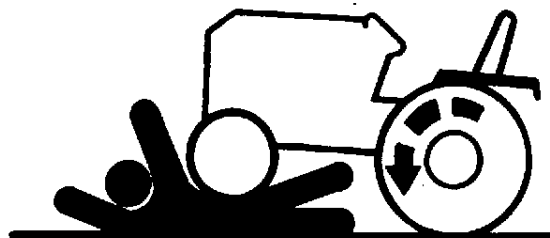
MX,SAS,B -19-12JUN89

PARK TRACTOR SAFELY

To park tractor safely:

1. Move shift lever in "N" (Neutral) position.
2. Disengage PTO's.
3. Lower equipment to the ground.
4. Engage park brake.
5. Stop the engine.
6. Remove key.

Before you leave the operator's seat, wait for engine and attachment parts to stop moving.



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MX,SAS,B1 -19-12JUN89



PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate or service machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



O53.SERV -19-21DEC87

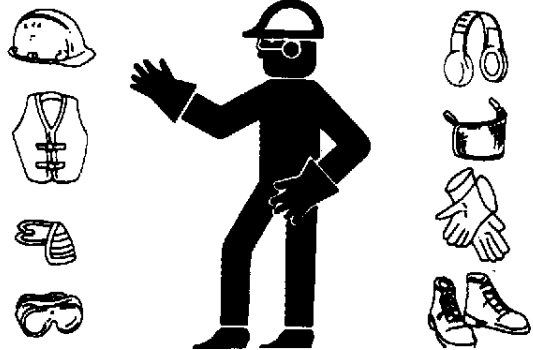
TS218 -UN-23AUG88

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

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

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



O53.WEAR -19-23APR87

TS206 -UN-23AUG88



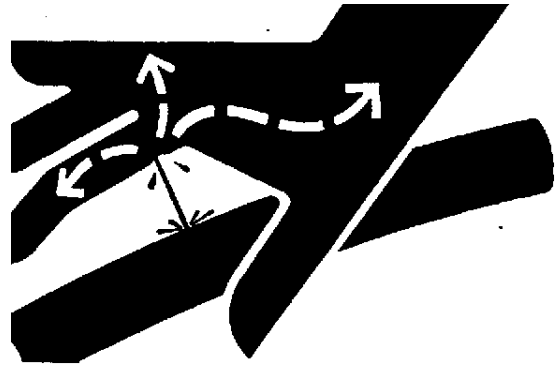
AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.



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O53_FLUID -19-01DEC88



MOUNT TIRES SAFELY

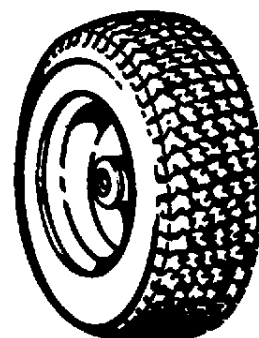
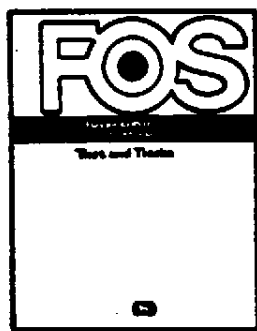
Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified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

When sealing tire beads on rims, never exceed 35 psi (240 kPa) (2.4 bar) 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 tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturer's Association and from tire manufacturers.



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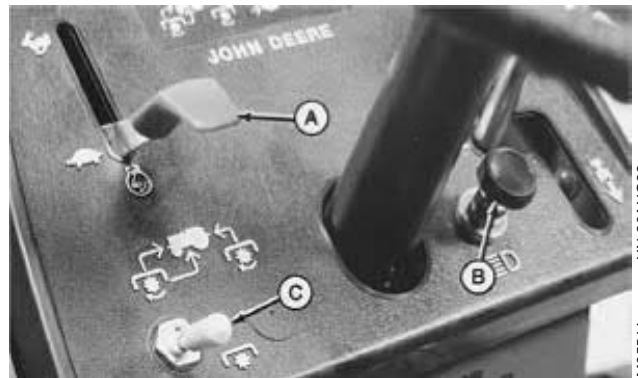
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Controls

UPPER DASH CONTROLS

- A—Throttle
- B—Light Switch
- C—Front PTO Switch

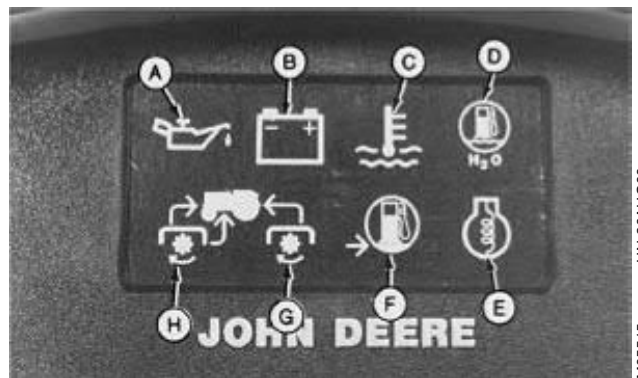


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INDICATOR LIGHTS

- A—Engine Oil Pressure
- B—Battery Discharge
- C—Water Temperature
- D—Water in Fuel
- E—Engine Preheat Indicator
- F—Low Fuel
- G—Rear PTO (if equipped)
- H—Front PTO

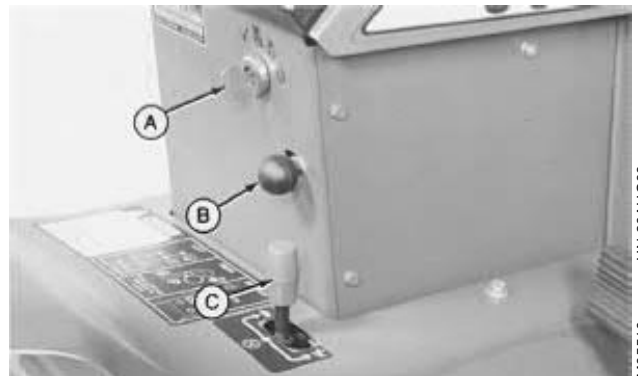


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-UN-26AUG88

LOWER DASH CONTROLS

- A—Key Switch
- B—Park Lock Lever
- C—2-Speed Axle Shift Lever



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HYDROSTATIC CONTROL LEVER



MX,CTR,D -19-12JUN89

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HYDRAULIC CONTROL LEVERS

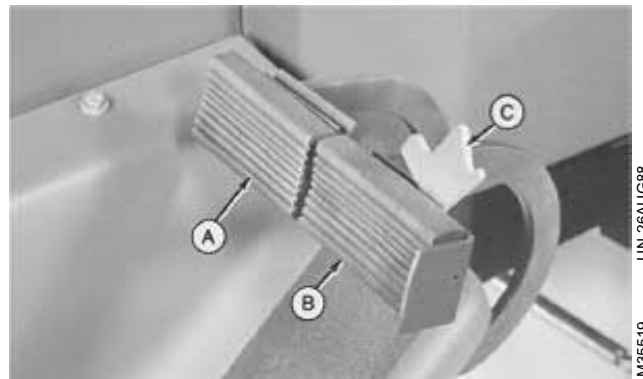


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BRAKE PEDALS

- A—Left Turn Brake Pedal
- B—Right Turn Brake Pedal
- C—Brake Strap



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DIFFERENTIAL LOCK



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HOUR METER



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Operating the Engine

STARTING THE ENGINE

CAUTION: Start engine only outdoors or in a well-ventilated place. Exhaust fumes are dangerous.

NOTE: Engine will not start unless hydrostatic control lever is in "STOP" position, PTO switches off, and brake pedals depressed.

1. Move hydrostatic control lever to "STOP" position.



MX,OER,A -19-12JUN89

2. Move front PTO switch and rear PTO switch (if equipped) to "OFF" position.



MX,OER,B -19-12JUN89

3. Lower park brake lever in "P" position (bottom of slot).

4. Push brake pedals all the way down. Pedals will stay down when park brake is properly locked.

NOTE: When park brake is engaged, hydrostatic control lever cannot be moved from "STOP" position.



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