

**170, 175,
180 and 185
Lawn Tractors**
(Serial No. 010001-)

John Deere Horicon Works
OMM95262 Issue J9
(This manual replaces OM-M78999 Jun 88.)

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 of forward travel.

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 you machine may not apply outside the U.S.



M61127 -UN-01SEP88

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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

OPEI CERTIFICATION

This OPEI Label on your mower indicates that this model has been certified by an independent laboratory for compliance with American National Standard B-71.1-1986, "Safety Specifications" for Power Lawn Mowers, Lawn and Garden Tractors, and Lawn Tractors.



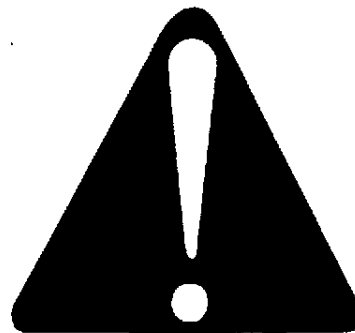
O53.CERT1 -19-27APR88

TS288 -19-07OCT88

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

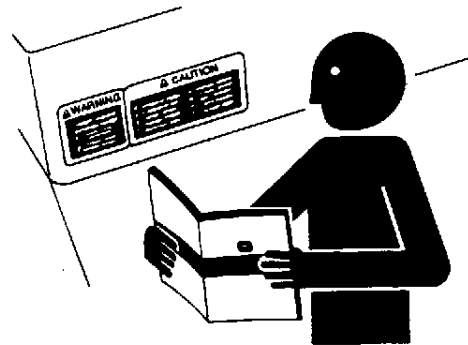
T81389 -UN-07DEC88

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

TS201 -UN-23AUG88



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.

▲ DANGER

▲ WARNING

▲ CAUTION

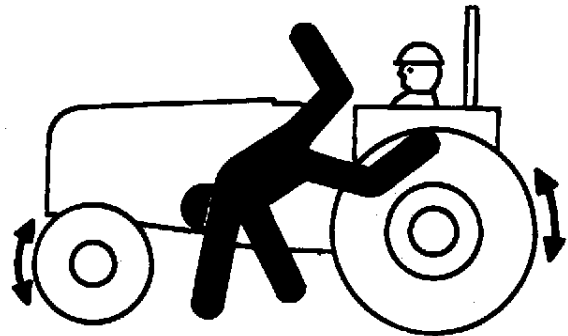
O53,SIGNAL -19-07OCT85

-19-30SEP88
TS187

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

-UN-23AUG88
TS290

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,0 -19-08SEP87

-UN-06SEP88
M41274



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.

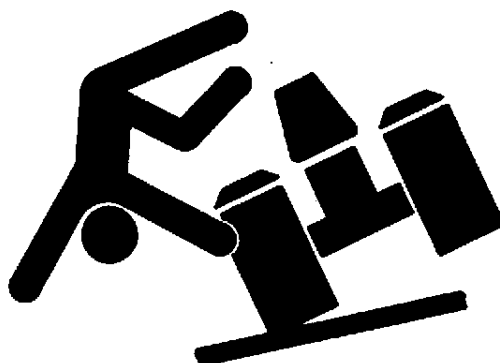
- Use only approved drawbar hitch points.
- Limit loads to those you can safely control.
- Use counterweights or wheel weights when suggested in this operator's manual.

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 up hill:

- Stop the PTO.
- Back down slowly.



M41275 -UN-06SEP88

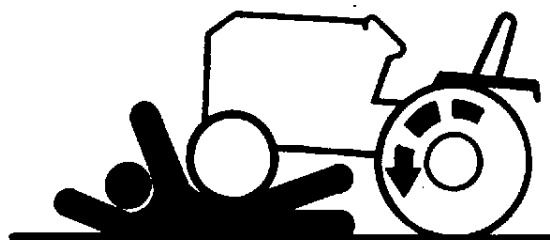
MX,SAS,B -19-08SEP87

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.



M41273 -UN-06SEP88

MX,SAS,B1 -19-08SEP88

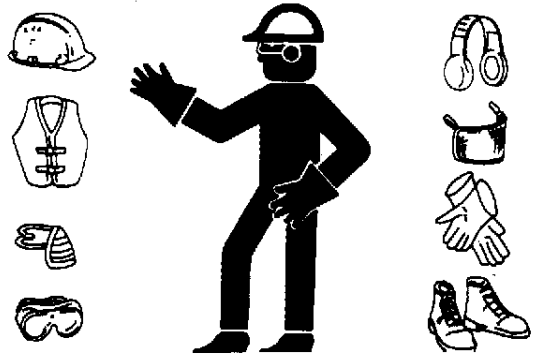


WEAR PROTECTIVE CLOTHING

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

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

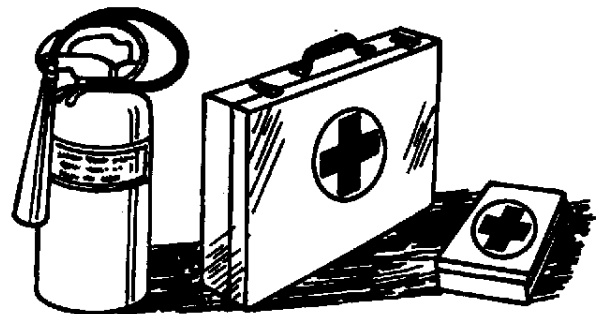
TS202
-UN-23AUG88

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



O53,FIRE2 -19-03MAR88

TS291
-UN-23AUG88



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

-UN-23AUG88

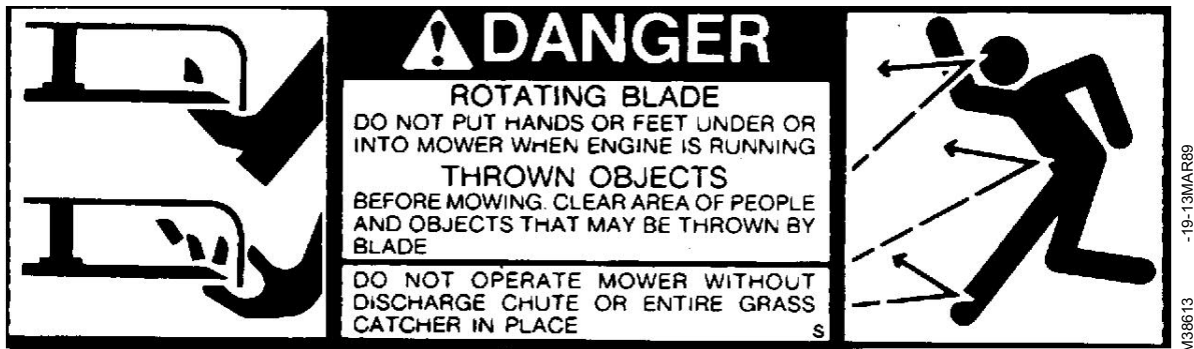
TS218



READ SAFETY SIGNS CAREFULLY



Top, Left-Side of Mower Deck



Top, Right-Side of Mower Deck Near Chute

Carefully read and follow all safety signs.

Danger signs identify the most serious hazards.

Keep safety signs in good condition. Replace any missing or damaged safety signs. Signs are attached to machine near specific hazard areas.

MX,SAS,A2 -19-06JUN88



MX,SAS,A3 -19-06JUN88



Caution signs call attention to safety messages in this manual.

! CAUTION

TO AVOID INJURY

- READ OPERATOR'S MANUAL
- KNOW LOCATION AND FUNCTION OF CONTROLS
- KEEP SAFETY DEVICES (GUARDS, SWITCHES) IN PLACE AND WORKING
- NEVER CARRY CHILDREN
- LOOK BEHIND BEFORE BACKING
- KEEP CHILDREN AND OTHERS AWAY WHEN OPERATING MACHINE
- STOP ENGINE BEFORE PLACING HANDS OR FEET NEAR POWER DRIVEN PARTS
- DO NOT DRIVE WHERE MACHINE COULD SLIP OR TIP
- IF MACHINE STOPS, GOING UP HILL, SHUT OFF PTO AND BACK DOWN SLOWLY
- WHEN LEAVING MACHINE:
STOP ENGINE
SET PARK BRAKE
REMOVE KEY

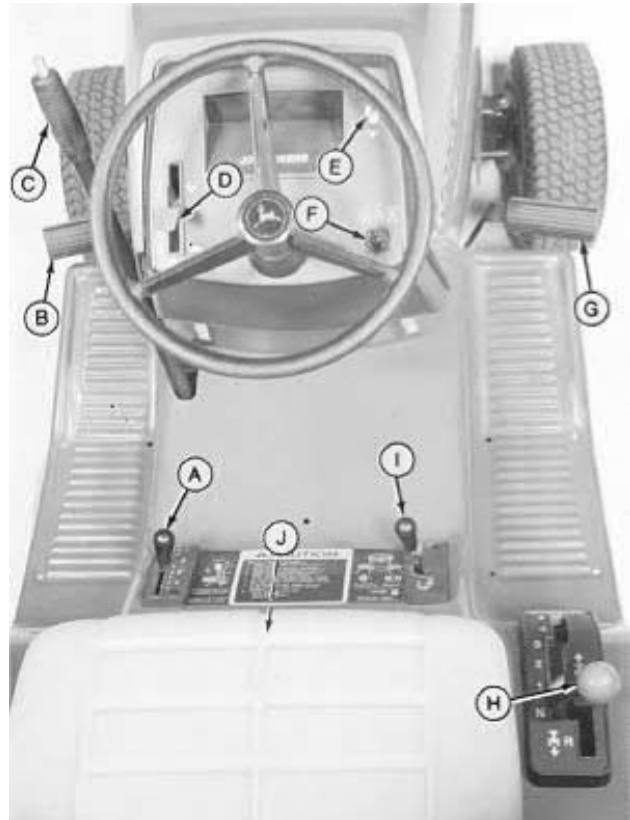
Safety Sign on Tractor in Front of Seat

MX,SAS,A1 -19-02APR87

M38364 -19-13MAR89

Controls

- A—Down-Stop Lever
- B—Clutch Pedal on 170 and 180 Tractors
- C—Lift Lever
- D—Throttle Lever
- E—PTO Switch
- F—Key Switch
- G—Brake Pedal
- H—Gear Shift Lever on 170 and 180 Tractors
- I—Park Brake Knob
- J—Fuel Shut-Off Valve



MX,CTS,A1 -19-12APR88

M40456 -UN-30AUG88

TRANSMISSION CONTROL LEVERS ON 175 TRACTORS

- A—Hydrostatic Transmission Shift Lever
- B—Tow Disconnect Lever

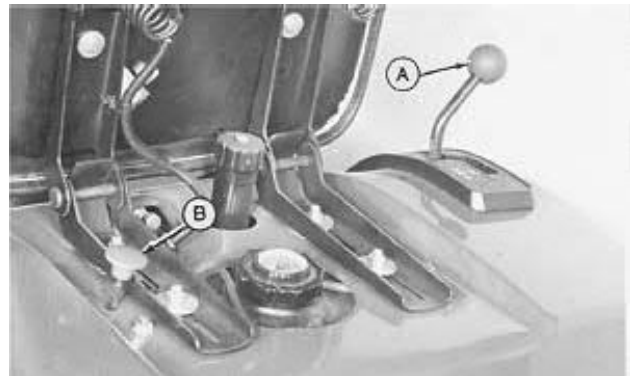


MX,CTS,A2 -19-12APR88

M38599 -UN-29AUG88

TRANSMISSION CONTROL LEVERS ON 185 TRACTOR

- A—Hydrostatic Transmission Shift Lever
- B—Tow Disconnect Lever



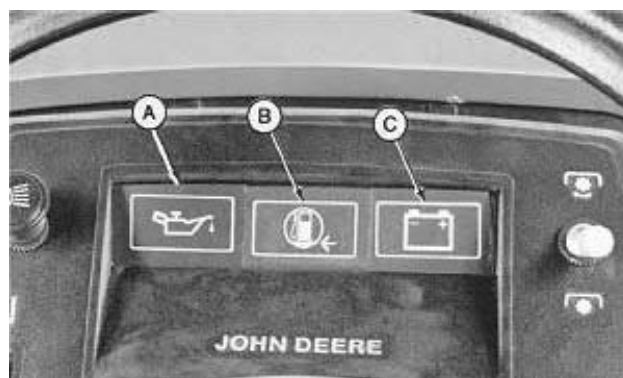
MX,CTS,B1 -19-03APR87

M40804 -UN-30AUG88

INDICATOR LIGHTS

NOTE: Only the low-fuel indicator (B) is used on the 170 and 175 Tractors. Model 180 and 185 Tractors are equipped with all three lights.

- A—Engine Oil Pressure**
- B—Low-Fuel**
- C—Battery Discharge**



MX.CTS.A3 -19-06JUN88

Operating the Engine

STARTING THE ENGINE

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

1. Lift seat.
2. Turn knob counterclockwise to open fuel shut-off valve (A).
3. Move transmission shift lever to N (neutral) position.



M38560 -UN-29AUG88



M38509 -UN-29AUG88

Gear Selector Tractor



M32821 -UN-25AUG88

Hydrostatic Tractor

MX,OES.A -19-20APR86

NOTE: You cannot move hydrostatic control lever out of N position when park brake is locked.

4. Lock the park brake:
 - a. Push down pedal(s).
 - b. Move park brake knob to P position.
 - c. Release pedal(s). Pedal(s) should stay down.

To start engine, you must:
—push brake pedal down all the way on a hydrostatic tractor.



M38510 -UN-29AUG88

MX,OES.B -19-20APR87



Suggest:

If the above button click is invalid.

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first, and then click the above link

to download the complete manual.

Thank you so much for reading

Operating the Engine

NOTE: Your tractor has a neutral start safety switch. Engine will not start unless:

- PTO switch is OFF.
- Transmission shift lever is in N (neutral) position.
- Brake pedal is down all the way on a hydrostatic tractor.

5. Move PTO switch lever to OFF position.



MX,OES,C -19-20APR87

M38511 -UN-29AUG88

6. Move throttle lever to choke position if engine is cold. Put throttle at half-speed position if engine is warm.



MX,OES,D -19-20APR87

M38512 -UN-29AUG88

IMPORTANT: Do not operate starter more than 20 seconds at a time or you may damage it. If engine does not start, wait 2 minutes before you try again. If engine will not start, see Troubleshooting section.

7. Turn key to START position.

- Crank engine 5 seconds.
- If engine does not start, wait 10 seconds.
- Crank engine again 5 seconds.
- Repeat this procedure if necessary.

8. When engine starts, release key to RUN position.

9. Move throttle lever to half-speed position.



MX,OES,E -19-08MAY87

M38513 -UN-29AUG88

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