

F510 and F525 Front Mowers

John Deere Horicon Works

OMM95233 Issue I9

(This manual replaces OM-M79625, Issue E9.)

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 PRODUCT IDENTIFICATION NUMBERS in the Identification Numbers 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. File the identification numbers in a secure place.

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.



-JUN-15MAR89

M62301

Contents

	Page
Safety	1
Controls	9
Operating the Engine	13
Driving the Front Mower	16
Operating the Mower	20
Transporting	31
Fuels and Lubricants	32
Troubleshooting	34
Service	36
Storage	58
Assembly	60
Specifications	64
Index	

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.



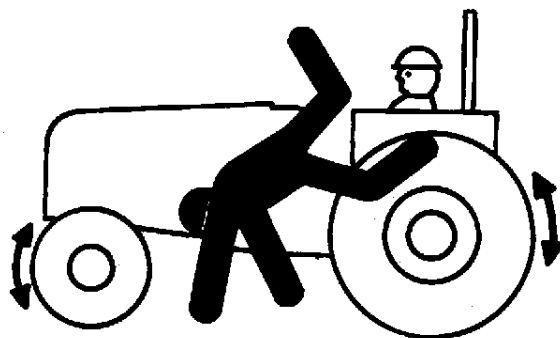
O53,SIGNAL -19-07OCT85

TS187 -19-30SEP88

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

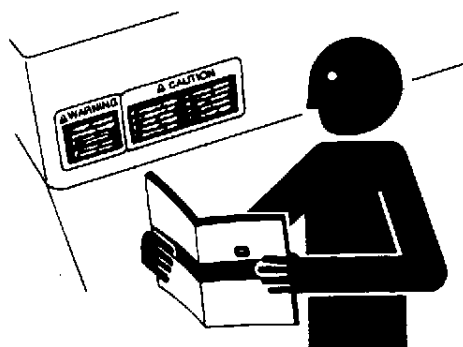


FOLLOW SAFETY INSTRUCTIONS

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-23AUG68

INSPECT FRONT MOWER BEFORE OPERATION

Guards and shields must be in good condition and fastened in place.

Check for loose, worn, damaged, or missing parts.

Check adjustments:

- Cutting height.
- Mower level.
- Seat.
- Others.

MX,SACL,A -19-11NOV88

PROTECT CHILDREN AND PETS

Look carefully behind Front Mower before you back.

Keep children and pets out of mowing area.

Do not allow children to operate Front Mower.



MX,SACL,B -19-11NOV88

M62294 -UN-15MAR89



AVOID INJURY FROM CONTACTING BLADES

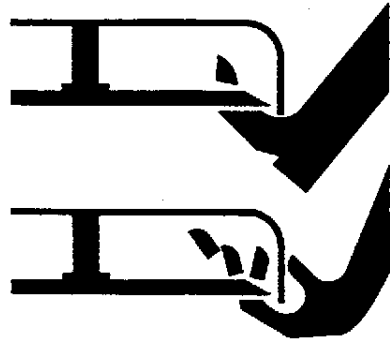
Before you dismount to unplug or adjust mower:

- Stop Front Mower. Stop engine.
- Lock park brake. Remove key.
- Wait for mower blades to stop.

Keep hands, feet, and clothing away from mower deck when engine is running.

Stop mower blades when you are not using mower:
Push PTO switch lever down.

Keep feet on footrests at all times when you are mowing.



MX,SACL,C -19-11NOV88

M41421 -UN-30AUG88

OPERATE FRONT MOWER SAFELY

Get on Front Mower from LEFT SIDE only.

Start engine from operator's seat only.

When you operate Front Mower:

- Sit in operator's seat.
- Keep feet on platform.

When you drive Front Mower without an attachment:

- Drive slowly and carefully.
- Avoid quick stops.

MX,SACL,D -19-24JAN89



AVOID TIPPING

Do not drive where Front Mower could slip or tip.

Stay alert for holes, rocks, roots, and other hidden hazards.

Keep away from drop-offs.

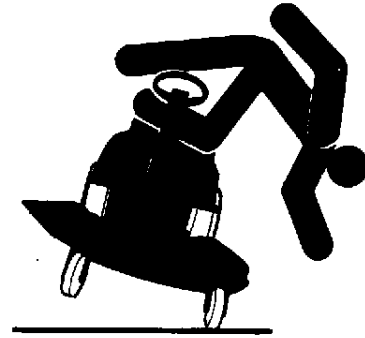
Slow down before you make a sharp turn.

Be careful when you pull loads:

- Use only approved drawbar hitch point.
- Limit loads to those you can safely control.

Be very careful on slopes:

- Avoid mowing steep slopes.
- Slow down—especially when you turn—to prevent tipping or loss of control.
- Avoid sudden starts and stops.
- If Front Mower stops as you go uphill:
 - Stop PTO.
 - Back down slowly.



M62295 -UN-15MAR89

MX,SACL,E -19-11NOV88

CLEAR AND CHECK MOWING AREA

Clear mowing area of objects that might be thrown.

Study mowing area:

- Set up a safe mowing pattern.
- Do not mow under conditions where traction or stability is doubtful.

Before you mow, test drive mowing area with PTO OFF.

Travel slowly on rough ground.



IM41423 -UN-30AUG88

MX,SACL,F -19-11NOV88



PARK FRONT MOWER SAFELY



-UN-27JUN89

M62290

Park on level surface, not on slope.

1. Stop Front Mower.
2. Stop PTO.
3. Stop engine.
4. Lock park brake (A and B). See Controls section.
5. Remove key.

MX,SACL,G -19-11NOV88

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.



-UN-23AUG88
TS202

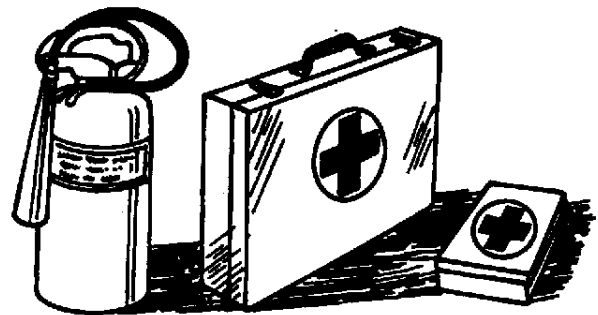
O53,FIRE1 -19-23APR87

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.



-UN-23AUG88
TS291

O53,FIRE2 -19-03MAR88

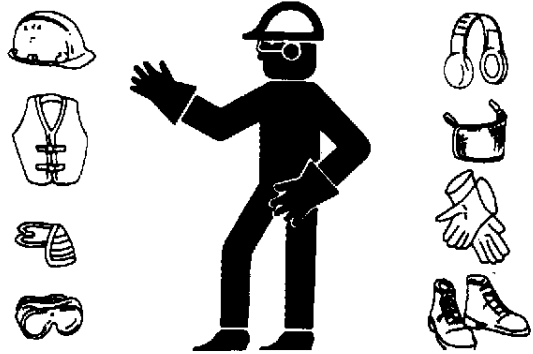


WEAR PROTECTIVE CLOTHING

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

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.

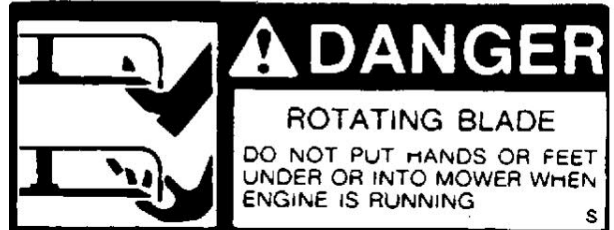


O53.SERV -19-21DEC87

TS218 -UN-23AUG88



READ SAFETY SIGNS



M38614 -19-13MAR89

On Top, Left End of Deck



M38613 -19-13MAR89

On Deck Right End & on F510 Mower Chute

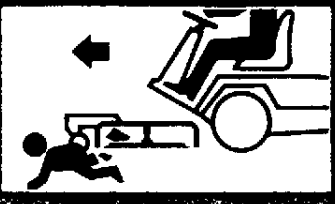


M34187 -19-13MAR89

On Right, Rear Frame

MX,SACL,I -19-11NOV88






⚠ DANGER

ROTATING BLADES CUT OFF ARMS AND LEGS

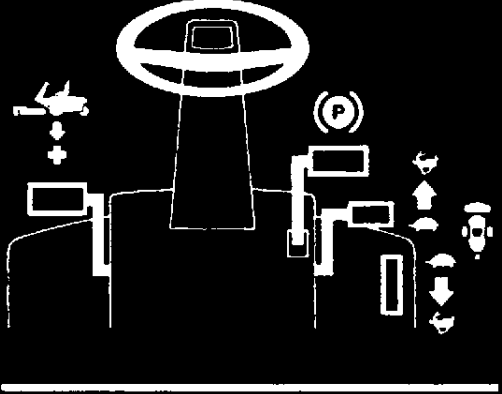
- STOP MOWER WHEN CHILDREN ARE NEAR
- NO RIDERS. THEY FALL OFF



⚠ CAUTION

HELP AVOID INJURY

- READ OPERATOR'S MANUAL
- KNOW LOCATION AND FUNCTION OF CONTROLS
- KEEP SAFETY DEVICES (GUARD, 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



P

- ENGAGE LEVER
- DEPRESS PEDAL

On Platform in Front of Seat

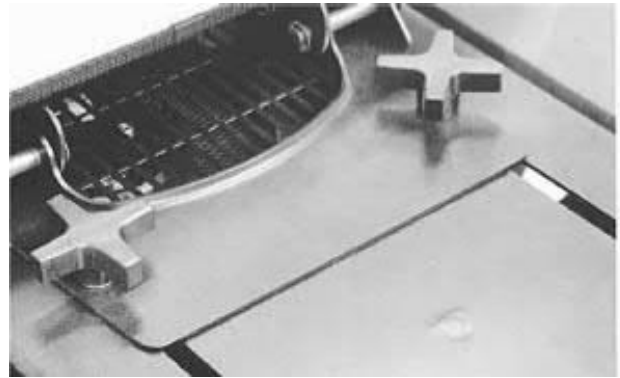
M62296 -19-20JUL89

MX,SACL,J -19-02MAR89

Controls

SEAT ADJUSTMENT KNOBS

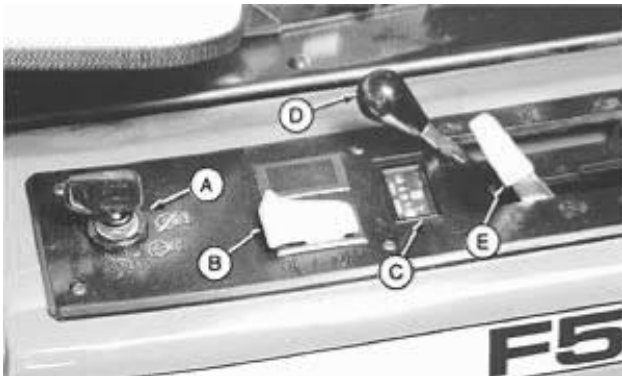
1. Sit on operator's seat. Loosen knobs.
2. Slide seat to desired position.
3. Tighten knobs.



M61952
-UN-15MAR89

MX,CTCL,A -19-11NOV88

PANEL CONTROLS



M62293
-UN-15MAR89



M62539
-UN-27JUN89

A—KEY SWITCH

- Turn key straight ahead to OFF position.
- Turn key to first or RUN position: Two indicator lights should go ON.
- Turn key to second or START position to START engine.

B—PTO SWITCH LEVER (If your Front Mower has a toggle switch, see key F.)

- To turn switch ON:
 - Pull lever to rear.
 - Lift rear of lever to ON position.
- Push lever down to OFF position.

C—HOUR METER

- Hour meter records number of hours engine has run.
- Check hour meter to learn when Front Mower needs service.

D—PARK BRAKE LOCK LEVER

- Use this lever to LOCK and UNLOCK park brake. See RIGHT-SIDE PEDALS in this section.

E—THROTTLE LEVER

- Push lever forward to FAST (rabbit) position. Operate mower with lever in this position.
- Move lever to rear to SLOW (turtle) position. Do not run engine at SLOW throttle any longer than necessary.
- Move lever all the way forward to CHOKE position to start engine.
- Pull lever back as engine warms.

F—PTO TOGGLE SWITCH LEVER

- To turn switch ON:
 - Pull lever up.
 - Hold lever up as you push it forward to ON position.
- Pull lever back to OFF position.

MX,CTCL,B -19-20JUN89

INDICATOR LIGHTS

A—OIL PRESSURE INDICATOR

IMPORTANT: If indicator lights **RED** when engine is running, **STOP ENGINE IMMEDIATELY**, or engine may be seriously damaged from lack of lubrication. Find and correct the cause before you run engine.

- RED indicator light means oil is low and/or oil pressure is low.
- Indicator should light when you turn key switch to ON.
- Light should go out when engine starts.

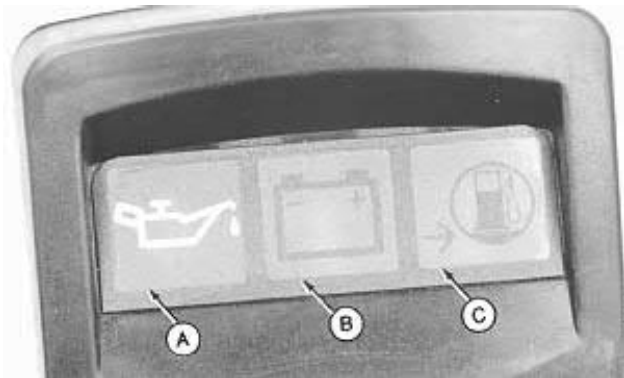
B—BATTERY INDICATOR

IMPORTANT: If indicator lights **YELLOW** when engine is running, stop engine. Find and correct the cause or battery will lose power.

- YELLOW indicator light means battery is not getting enough charge from alternator.
- Indicator should light when you turn key switch to ON.
- Light should go out when engine starts.

C—LOW FUEL INDICATOR

- YELLOW indicator light means fuel is low: engine will run only a short time.
- Light should go out when you add fuel.



M61955 -UN-15MAR89

MX,CTCL,C -19-21FEB89



Suggest:

If the above button click is invalid.

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first, and then click the above link

to download the complete manual.

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RIGHT-SIDE PEDALS

A—PARK BRAKE PEDAL

- Push pedal down for EMERGENCY STOP.
- When you push pedal down, travel pedal (B or C) will return to NEUTRAL.
- You must hold pedal down or LOCK park brake before you can start engine.
- To LOCK park brake:
 - Move park brake lock lever forward (See PANEL CONTROLS in this section.) to LOCK position.
 - Push pedal down to LOCK brake.
- To UNLOCK brake:
 - Push pedal down.
 - Move lever to rear to UNLOCK position.
 - Release pedal.

B—FORWARD TRAVEL PEDAL

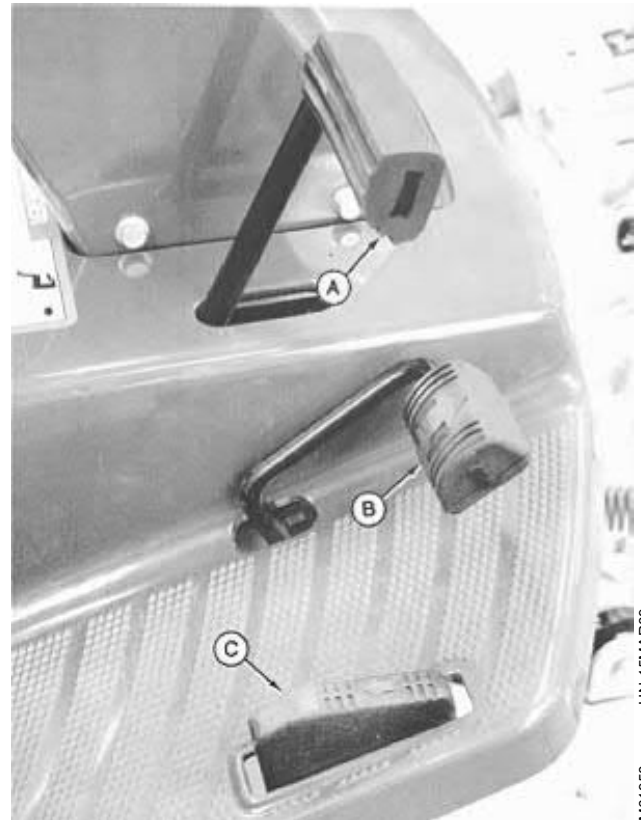
- Push pedal down to travel forward. Push pedal further to travel faster.
- Release pedal: it will return to neutral and stop Front Mower.

C—REVERSE TRAVEL PEDAL

- Pivot foot from Forward Travel Pedal (B) to Reverse Travel Pedal (C).

CAUTION: Before you back the machine, LOOK CAREFULLY behind it.

- Push pedal down to travel in reverse. Push pedal further to travel faster.
- Release pedal: it will return to neutral and stop Front Mower.



M61958 -UN-15MAR89

MX,CTCL,D -19-21FEB89

TRACTION ASSIST PEDAL

- Push pedal down to help improve traction.
- Push pedal further for better traction.
- Use pedal ONLY when you need more traction.



M61951 -UN-15MAR89

MX,CTCL,E -19-20JUN89

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