

**48 and 54-Inch
Commercial
Walk-Behind
Mowers**
(Serial No. 010,001—)

John Deere Horicon Works
OMM111766 Issue C2
(This manual replaces OMM111766, Issue L0.)
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 mower correctly. Failure to do so could result in personal injury or equipment damage.

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

MEASUREMENTS IN THIS MANUAL are U.S. customary units and their metric equivalents.

RIGHT AND LEFT SIDES are determined by facing in the direction of forward travel.

WRITE MACHINE NUMBERS in the Specifications section. You need these numbers to help you order parts, and to help trace the machine if it is stolen. Also record and keep these numbers in a safe place in case this manual is lost.

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.



M73298
-UN-09OCT90

Contents

	Page		Page
Safety	1	Service—Lubrication and Tires	
Controls	8	Grease	28
Operation		Lubricating Mower	28
Leveling Mower		Checking Tire Pressure	29
Side-to-Side	10	Service—Fuel System	
Front-to-Rear	11	Fuel	30
Adjusting Cutting Height	12	Fuel Shutoff	30
Starting Engine	13	Cleaning Fuel Cap Vent	31
Checking Safety System	14	Changing Fuel Filter	31
Stopping Engine	14	Service—Air Intake System	
Checking Blade Stop Time	15	Servicing Air Cleaner	32
Starting to Mow	15	Carburetor Adjustments	34
Travel Speeds	16	Service—Electrical System	
Traction Drive	17	Electrolyte Level	36
PTO Switch	17	Gapping Spark Plug	37
Turn/Service Brakes	18	Charging Battery	37
Mowing Tips	19	Booster Battery	38
Bagging Tips	20	Replacing Battery	39
Mulching Tips	20	Replacing Fuse	39
Transporting	20	Service—Blades	
Troubleshooting	21	Inspecting Blades	40
John Deere Parts	22	Adjusting PTO Clutch	41
Service Interval Chart	23	Sharpening Blade	41
Service—Engine Oil and Filter		Balancing Blade	41
Engine Oil	24	Service—Belts	
Checking Oil Level	24	Belt Shields	42
Changing Engine Oil	25	Replacing Transmission Belt	43
Changing Engine Oil Filter	26	Replacing Mower Belt	43
Service—Transmission Oil		Service—Brakes	
Transmission Oil	27	Linkage & Brake Adjustment	46
Checking Oil Level	27	Brake Screw Adjustment	48
Changing Oil	27	Turn Brake Adjustment	50
		Park Brake Adjustment	51

Continued on next page

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.

OMM111766 C2-19-19MAR92

COPYRIGHT© 1992
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION™ Manual
Previous Editions
Copyright 1991 & 1990 Deere & Company

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Contents

	Page
Traction Control Linkage Adjustment	54
Gear Selector Neutral Adjustment	56
Storage	57
Assembly	59
Specifications	67
Index	

Safety

READ SAFETY SIGNS & INSTRUCTIONS

! This symbol means **BE ALERT FOR POSSIBLE INJURY**.

DANGER points out immediate hazards which will cause severe injury or death.

WARNING points out hazards or unsafe practices which could cause severe injury or death.

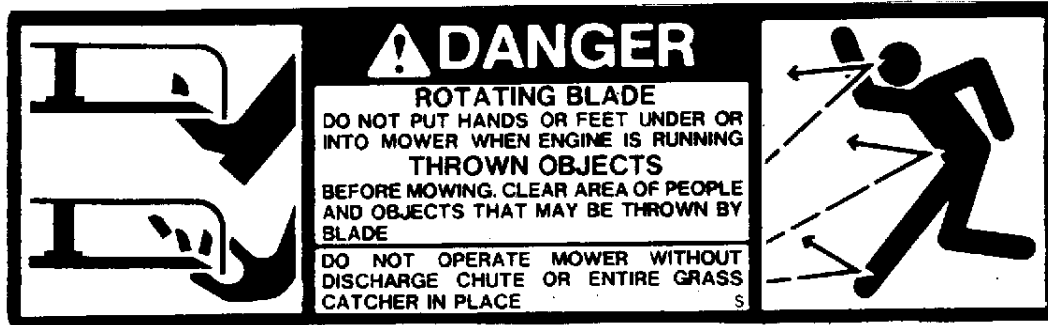
CAUTION points out hazards or unsafe practices which could cause minor injury or machine or property damage.

KEEP SAFETY SIGNS in good condition. You can buy safety signs from your John Deere dealer.

READ, UNDERSTAND, & FOLLOW all instructions in this manual and on the machine, before starting.

ALLOW ONLY RESPONSIBLE ADULTS, who are familiar with instructions, to operate the machine.

IF YOU DON'T UNDERSTAND any part of this manual, see your John Deere dealer.



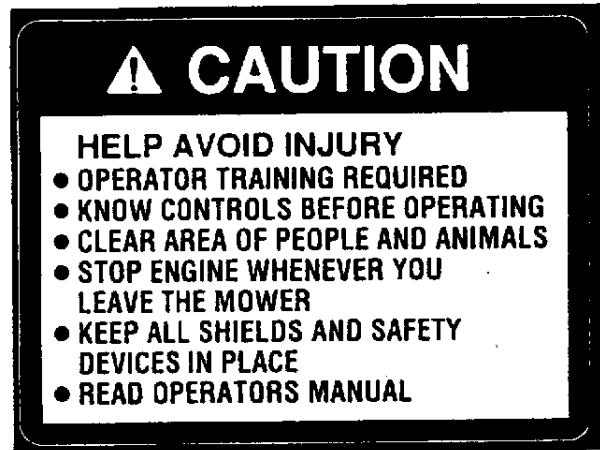
Right End of Mower Deck

M38613 -19-18SEP90



Left End of Mower Deck

M38614 -19-18SEP90



Center of Instrument Panel

M73297 -19-01OCT90

MX,SAFQ,M -19-19MAR92



▲ WARNING



SULKY

- DO NOT DRIVE ACROSS DITCHES
- SLOW DOWN FOR BUMPS AND HOLES

UNHITCH SULKY TO AVOID INJURY

On Sulky

MX,SAFQ,N -19-19MAR92

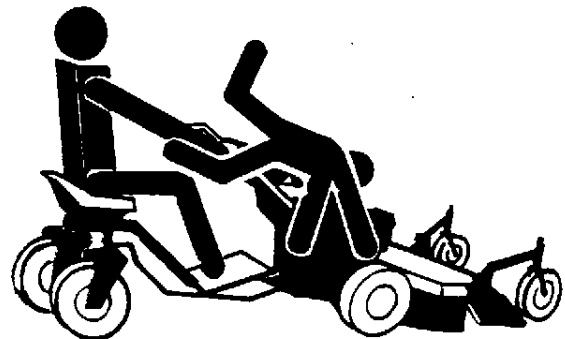
MT3466 -19-17DEC90

KEEP RIDERS OFF SULKY AND MOWER

Allow ONLY operator on sulky. Keep riders off sulky and mower.

Riders are subject to injury such as being struck by foreign objects and being thrown off mower.

Riders may obstruct operator's view and cause mower to be operated in unsafe manner.



MX,SAFQ,A -19-19MAR92

MT3404 -JUN-24OCT90

INSPECT MOWER BEFORE YOU OPERATE IT

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

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

Side chute, mulching plate, or bagger must be in place.

Check adjustments:

- Cutting height.
- Mower level.
- Others.

Don't use an attachment unless it has been approved by John Deere.

MX,SAFQ,C -19-19MAR92



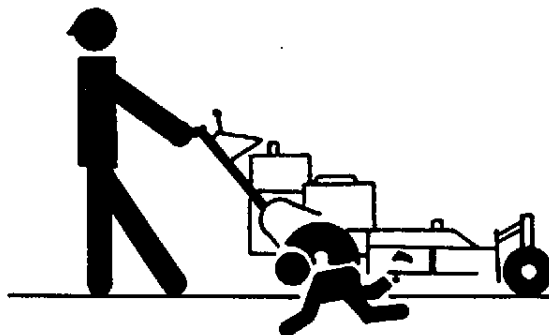
PROTECT CHILDREN

Keep children and others away when you use mower.

BEFORE YOU BACK UP: Stop mower. Look behind and around for children.

Don't let children use mower.

Don't let children ride on sulky or mower.



MX,SAFQ,D -19-19MAR92

M61837 -UN-22DEC88

USE SULKY SAFELY

Use sulky **ONLY** on **EVEN** terrain for mowing mostly in a straight line.

Be careful when you drive sulky and mower through a dip: Handlebars may hit you, especially when you make a turn. See drawing at right.



MX,SAFQ,D1 -19-19MAR92

MT73408 -UN-25OCT90

AVOID ROTATING BLADES

Don't put hands or feet under mower—especially when blades are turning.

Before you mow, clear area of people.

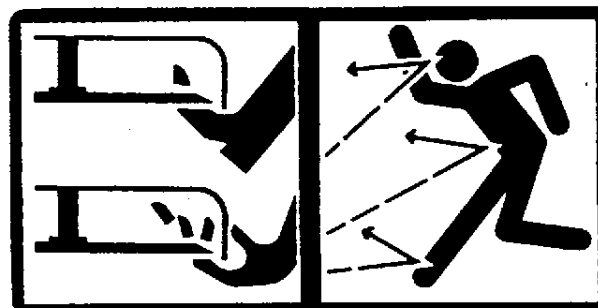
Stop engine before you adjust mower. Stop mower blades when you are not mowing.

LISTEN! LOOK! WAIT!

LISTEN for sound of rotating blades before you approach mower.

LOOK at mower spindles, belt, and sheaves to be sure they are stopped.

WAIT after you shut off mower to be sure all parts have stopped moving before you approach mower.



MX,SAFQ,E -19-19MAR92

IM41090 -UN-06SEP88



AVOID TIPPING

Do not use sulky or grass catcher on slopes or uneven ground.

Avoid holes, rocks, and roots.

Slow down before you turn.

Operate safely on slopes:

- Mow ACROSS slopes.
- Avoid sudden starts and stops.
- Don't mow a steep slope where you can't maintain firm footing and control of mower.
- Park mower on level surface.

MX,SAFQ,F -19-19MAR92

CLEAR AND CHECK MOWING AREA

Clear mowing area of objects that might be thrown by mower.

Study mowing area:

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

Travel slowly on rough ground.



MX,SAFQ,G -19-19MAR92

IM41423 -UN-30AUG88

HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable.

Do not refuel the mower:

- While you smoke.
- When mower is near an open flame or sparks.
- When engine is hot or running. STOP ENGINE.

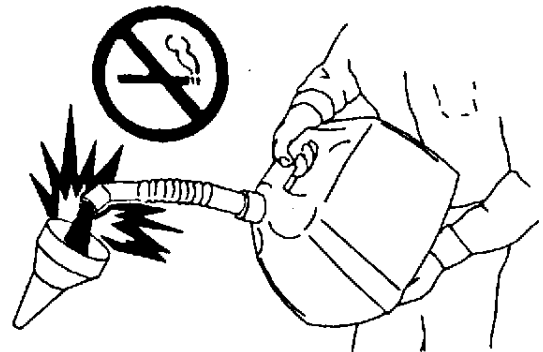
Fill fuel tank outdoors.

Fill tank only to bottom of filler neck: Leave room for fuel to expand.

Help prevent fires:

- Clean clippings, grease, oil, and dirt from mower.
- Clean up spilled fuel immediately.

Do not store mower with fuel in tank in a building where fumes may reach an open flame or spark.



MX,SAFQ,H -19-19MAR92

IM73115 -UN-09MAR90

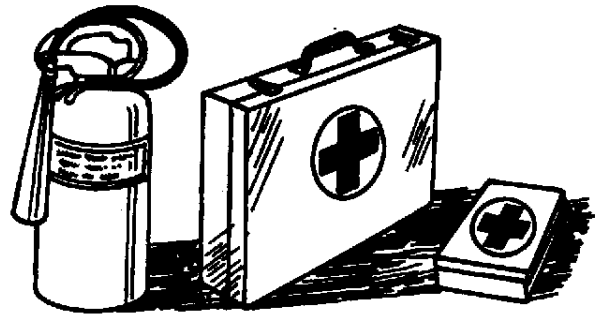


PREPARE FOR EMERGENCIES

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.



DX,FIRE2 -19-04JUN90

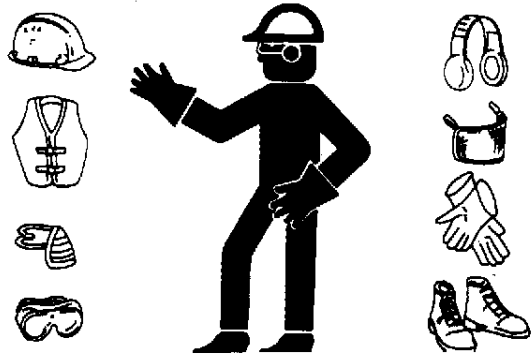
TS291 -UN-23AUG88

WEAR RIGHT CLOTHING AND EQUIPMENT

Wear close fitting clothing and safety equipment.

Wear safety glasses, goggles, or eye shield when you operate, adjust, or service mower.

Wear earmuffs or earplugs to protect against loud noise. Focus on mowing. Don't wear music headphones.



MX,SAFQ,I -19-19MAR92

TS206 -UN-23AUG88



SERVICE MOWER SAFELY

Don't modify mower unless changes are approved by John Deere. Don't change governor setting or overspeed engine.

Understand service procedure before you do the work.

Keep work area floor clean and dry.

Help prevent injury from moving parts during service:

- Do not lubricate or service mower while parts are moving.
- Keep hands, feet, and clothing away from power-driven parts.
- Disengage power. Stop engine. Remove key. Let mower and engine cool.

Safely support mower parts that must be raised for service.

Keep all parts in good condition and properly installed:

- Fix damage immediately.
- Replace worn or broken parts.
- Remove grease, oil, or dirt from parts.

Disconnect battery ground cable (—) before you make adjustments on electrical system or weld mower.



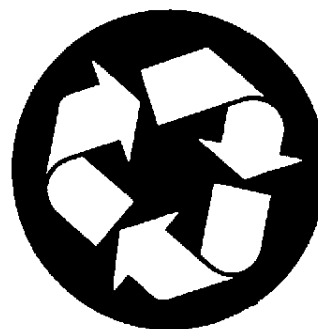
TSS218 -UN-23AUG88

MX,SAFQ,J -19-19MAR92

WASTE PRODUCT SAFETY

Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people. See your local Recycling Center or John Deere dealer to learn how to recycle or get rid of waste products.

Don't use beverage containers for waste fluids—someone may drink from them.



M73469 -UN-24JAN91

MX,SAIR,I -19-18MAR92

Controls

CONTROLS

A—TURN/SERVICE BRAKE LEVERS

- Left lever controls left drive wheel. Pull and hold lever against handle to turn LEFT.
- Right lever controls right wheel. Pull and hold lever against handle to turn RIGHT.
- Turn brakes work only after you ENGAGE traction drive lever (C).
- To adjust lever gap to handlebar, bend tab (AA) on end of lever. See Service—Brakes section for procedure.
- For emergency stop:
 - Pull up service brake levers to stop forward movement.
 - Then release traction lever (C) to ENGAGE park brake.

B—HANDLEBARS

C—TRACTION LEVER/PARK BRAKE

- Lever controls left and right wheels equally.
- Lever has three positions and three functions:
 - LEVER UP: park brake ENGAGES.
 - LEVER PART WAY DOWN: You can ENGAGE PTO.
 - LEVER DOWN: traction drive ENGAGES.
- Traction lever is not designed to stop the mower: Use service brake levers (A) to stop forward movement.

D—KEY

- Turn key to vertical position to STOP engine.
- Turn key to first or RUN position:
 - Manual Start Model: Engine is ready to start: Pull starter handle.
 - Electric-Start Model: Oil indicator light should go ON.
- Electric-Start Model: Turn key to second or START position to START engine.

E—PTO SWITCH LEVER

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

F—HOUR METER

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

G—LOW OIL PRESSURE INDICATOR

IMPORTANT: If light comes ON when engine is running, STOP ENGINE IMMEDIATELY or engine may be seriously damaged. Find and correct the cause before you run engine.

- RED indicator light means oil is low and/or oil pressure is low.
- Electric-Start Model: Indicator should light when you turn key switch to RUN position.
- Light should go out when engine starts.

H—CHOKE KNOB

- Pull knob up to CHOKE engine.
- Push knob down to OPEN choke.

I—SHIFT LEVER

- You can move lever to 5 forward gears, neutral, and reverse.
- OK to shift on the go among forward gears.
- Stop forward movement before you shift to reverse.
- To park mower: STOP engine. Move shift lever to 1st or reverse gear.

J—THROTTLE LEVER

- Push lever all the way forward to FAST (rabbit) position. Use this position when you mow.
- Pull lever to rear to SLOW (turtle) position. Do not run engine at SLOW idle any longer than necessary.

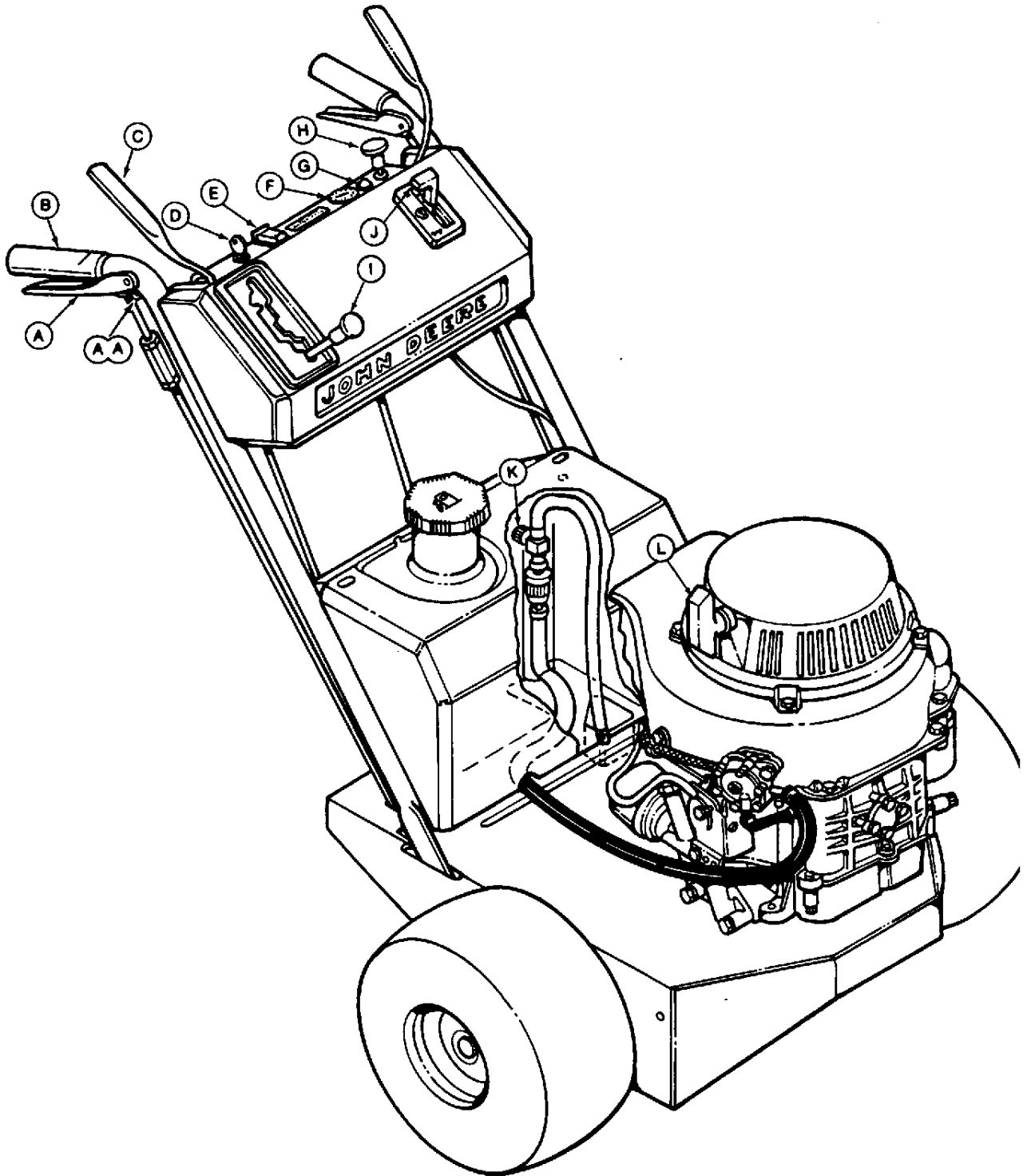
K—FUEL SHUTOFF

- Turn RED pointer down to OPEN position.
- Turn pointer horizontal to CLOSED position.

L—STARTER HANDLE

- Pull starter handle until you feel resistance. Then pull fast and steady.
- Return rope slowly. Do not let it snap back.

CONTROLS



-UN-09OCT90

M73300

MX.CTFQ,B -19-19MAR92

Operation

LEVELING MOWER SIDE-TO-SIDE

CAUTION: Before you adjust mower, STOP engine.

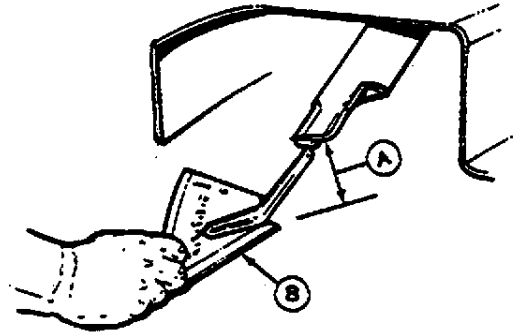
1. Park mower on a hard, level surface.
2. Check tire pressure:
 - Caster wheel tires: 45 psi (310 kPa)
 - Drive wheel tires: 15—28 psi (100—200 kPa)
3. Turn crank to put mower at desired cutting height.

CAUTION: Blades may have sharp edges. Wear heavy gloves or use a rag to protect hands.

4. Turn right blade sideways.
5. Lift mower chute. Measure from right blade tip to floor: Distance A.

NOTE: Use a short ruler or leveling gauge (B). Order gauge (TY15272) from your John Deere dealer.

6. Turn left blade sideways. Measure distance A from tip of blade.
7. Distance A should be same on each side $\pm 1/8$ in. (3 mm).



M62304 -UN-15MAR89

MX,OPFQ,A -19-19MAR92

8. If not, adjust level:
 - Raise and block one side of mower 6 in. (150 mm).
 - Remove snap ring (A).
 - Remove wheel from mower.
 - Move top washer (B) to bottom position to raise one side of mower, OR move washer (C) from bottom to top to lower mower.
 - Install snap ring.

9. Remove block. Lower mower.



M73339 -UN-02OC190

MX,OPFQ,B -19-19MAR92

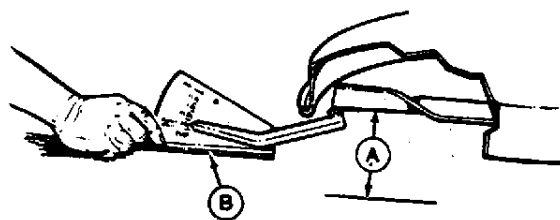
LEVELING FRONT-TO-REAR

CAUTION: Before you adjust mower, STOP engine.

1. Park mower on a hard, level surface.
2. Check tire pressure:
 - Caster wheel tires: 45 psi (310 kPa)
 - Drive wheel tires: 15—28 psi (100—200 kPa)

CAUTION: Blades may have sharp edges. Wear heavy gloves or use a rag to protect hands.

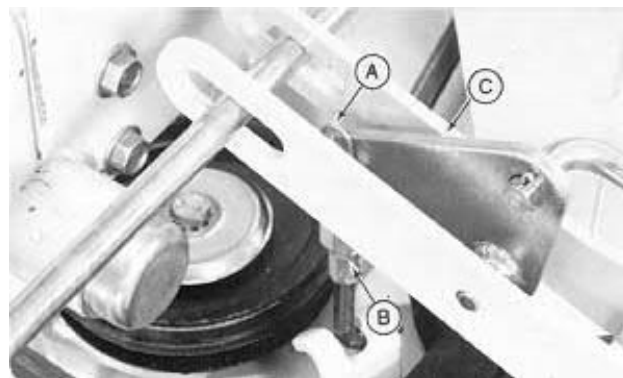
3. Turn left blade straight ahead.
4. Measure from left, front blade tip to floor. Turn blade 180° and measure from left, rear tip to floor: Distance A.
5. Repeat steps 3 and 4 for right blade.
6. Distance A at rear of blade should be 1/8—1/4 in. (3—6 mm) more than Distance A at front of blade.



M40137 -UN-30AUG88

MX,OPFQ,C -19-19MAR92

7. If not, adjust level:
 - Put rear wheels in highest position.
 - Turn crank to lower mower to lowest position.
 - Remove spring locking pin (A) and drilled pin from yoke (B) and bracket (C).
 - Turn yoke out to lower rear of mower. Turn yoke in to raise rear of mower.
8. Install pins.



M73301 -UN-24OCT90

MX,OPFQ,D -19-19MAR92



Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

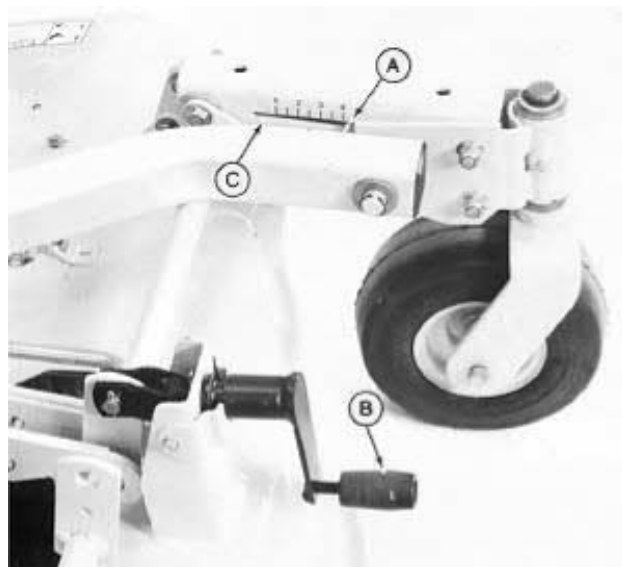
Thank you so much for reading

ADJUSTING CUTTING HEIGHT AND GAUGE WHEELS

CAUTION: Before you adjust mower, STOP engine.

NOTE: Pointer (A) does not show cutting height on decal (C). Numbers 1—4 are for reference only.

1. Turn crank (B) to put mower at desired cutting height—from 1—4 in. (25—100 mm). One turn of crank should raise or lower mower 1/4 in. (6 mm). Leave crank at bottom of turn.
2. Cut a short strip of grass. For best results, measure height of grass at several places in the strip.
3. When mower is set at desired cutting height, note the pointer number on the decal. Use this number as a reference to set cutting height in the future.



M73302 -UN-24OCT90

MX_OPFQ,E -19-19MAR92

4. Remove spring locking pin (A) and drilled pin from wheel arm.
5. Adjust wheel height:
 - Normal operation: Adjust wheel to 1/4 in. (6 mm) above floor.
 - For rough or uneven ground: If scalping is a problem, you may get help by running wheels on ground.
6. Install pins.
7. Repeat steps 4—6 on other wheel.



M73340 -UN-02OCT90

MX_OPFQ,F -19-19MAR92

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>