

**2243 Diesel
Professional
Greensmower**
(Serial No. 958001 –)

**OPERATOR'S
MANUAL**

**John Deere
Lawn & Grounds Care Division
OMMT2696 H5**

North American Version
Litho in U.S.A
English

INTRODUCTION

THANK YOU for purchasing a John Deere product.



Read this manual and your attachment manuals thoroughly. Failure to do so could result in personal injury or equipment damage.

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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 metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (- - - ➔) it indicates the part it is pointing to is hidden.

INTRODUCTION

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your distributor when you order parts.

Date of Purchase:

Distributor Name:

Phone:

Engine Serial Number:

□ □ □ □ □ □ □ □ □ □ □ □



M73873

Cutting Unit Serial Number:

□ □ □ □ □ □ □ □ □ □ □ □
□ □ □ □ □ □ □ □ □ □ □ □
□ □ □ □ □ □ □ □ □ □ □ □

One on each reel

Product Identification Number:

□ □ □ □ □ □ □ □ □ □ □ □

<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>

TABLE OF CONTENTS

	Page
Safety Signs	
Safety-Alert Symbol	1
Machine Safety Labels.....	1
Machine Safety Labels.....	2
Certification	2
Controls	
Console Controls.....	3
Foot/Platform Controls	4
Miscellaneous Controls	5
Operating the Machine	
SAFETY:	
Operate Safely	6
Mount and Dismount Safely	6
Park Safely.....	7
Keep Riders Off.....	7
Rotating Blades are Dangerous - Protect Others and Prevent Accidents	8
Avoid Tipping	9
Operator Training Required	9
Wear Appropriate Clothing.....	10
Transport Safely.....	10
Avoid Neutral Creep.....	11
Avoid High Pressure Fluids.....	11
ADJUSTMENTS:	
Seat.....	12
Tilt Steering Wheel.....	12
DRIVING:	
Using Fuel Selector Valve.....	13
Using Fuel Shut-Off Valves.....	13
Using the Park Brake	14
Indicator Lights.....	15
Ignition Interlock Systems	16
Starting the Engine.....	17

TABLE OF CONTENTS

	Page
Warming and Idling Engine.....	19
Stopping Engine	19
Emergency Stopping	19
Using Hydrostatic Transmission	20
Using Free-Wheeling Lever	21
Using Hourmeter.....	21
DAILY OPERATING CHECKLIST	22
TESTING SAFETY SYSTEMS:	
TEST 1.....	23
TEST 2.....	23
TEST 3.....	24
TEST 4.....	25
Avoid Damage to Plastic and Painted Surfaces	25
TRANSPORTING:	
Transporting the Greensmower	26

Operating the Cutting Units

SAFETY:	
Check Ground Conditions.....	27
Avoid Injury from Contacting Blades.....	27
Adjust Cutting Height	28
Adjust Rear Roller Mounting Brackets	28
Adjust Rear Roller.....	29
Adjust Height of Cut.....	31
Adjust Reel-to-Bed Knife	32
Operating (Optional) Greens and Turf Conditioner.....	33
Adjusting (Optional) Greens and Turf Conditioner.....	35
Adjusting (Optional) Rear Roller Powered Brush	36
USING CUTTING UNITS:	
Operating Cutting Units	37
Raising/Lowering Cutting Units.....	38
Removing and Emptying Grasscatchers	39
USING WEIGHTS:	
Standard Weight Position	39

TABLE OF CONTENTS

	Page
Service Machine Safely	
Practice Safe Maintenance	40
Wear Appropriate Clothing	41
Handling Waste Product and Chemicals.....	41
Avoid High Pressure Fluids.....	42
Prevent Fires.....	42
Avoid Injury from Contacting Blades	43
 Service Interval Chart	
Service Intervals.....	44
 Service - Lubrication	
Grease	46
Grease Locations	46
 Service - Engine	
Avoid Fumes	50
Engine Oil.....	50
Checking Engine Oil Level	51
Changing Engine Oil and Filter	52
Cleaning Air Intake Screen	53
Checking Air Restriction Indicator	53
Replacing Air Cleaner Element.....	54
Service Cooling System Safely	56
Engine Coolant.....	56
Checking Coolant Level	57
Draining Cooling System.....	58
Flushing Cooling System	59
Filling Cooling System.....	60
Checking Sediment Bowl	61
Cleaning Fuel Filter Sediment Bowl	61
Bleeding Fuel System	62

TABLE OF CONTENTS

	Page
Service - Hydraulics/Transmission	
Hydrostatic Drive Oil	63
Checking Hydraulic Oil Level	63
Changing Hydraulic Oil	64
Replacing Hydraulic Oil Filter	65
Adjusting Transmission Neutral	66
Adjusting Mowing Speed	67
Cutting Ratios	67
Adjusting Ignition Interlock Switches	68
Service - Cutting Units	
Avoid Injury from Contacting Blades.....	69
Removing and Installing Front Roller.....	69
Removing and Installing Bed Knife.....	70
Grinding the Bed Knife.....	72
Adjusting Center Cutting Unit Arm.....	72
Backlapping Cutting Units.....	73
Adjusting Cutting Unit Shield	76
Service - Electrical	
Cleaning or Replacing Battery	77
Checking Battery Electrolyte Level	78
Charging the Battery.....	79
Charging Rates.....	81
Using Booster Battery.....	82
Replacing Fuse.....	83
Service - Miscellaneous	
Checking Tire Pressure	84
Refueling Machine	85
Fuel Specifications.....	86
Diesel Fuel Storage	86
Before Filling Fuel Tank.....	87
Filling Fuel Tank.....	87

TABLE OF CONTENTS

	Page
Adjusting Parking Brake.....	88
Tightening Wheel Bolts	89
Raising Hood.....	89
Raising Seat.....	90
 Troubleshooting	
Using Troubleshooting Chart	91
Electrical.....	93
Hydraulic Mower Drive System	95
Hydrostatic Drive.....	96
Cutting Units.....	98
 Storing Vehicle	
Storing Safety.....	100
Storing the Mower.....	100
Removing Mower from Storage	102
 Assembly	
Assemble Greensmower.....	103
Remove the Machine from Skid	104
Install Front Lift Arms	105
Assemble Base Cutting Unit	105
Install Front Roller.....	106
Counterweight Location	107
Install Motor/Reel Coupling	108
Install Yokes to Cutting Units	108
Install Bails on Front Cutting Units	109
Adjust Lift Arm Rollers.....	110
Install Cutting Units on Greensmower.....	111
Install Grass Catcher Frame and Grass Catcher	114
Checking Tire Pressure.....	115

TABLE OF CONTENTS

	Page
Specifications	
Engine.....	116
Electrical System	116
Vehicle Specifications.....	117
Transaxle, Reel Drive	117
Mower.....	118
Weights and Dimensions	118
Metric Bolt and Cap Screw Torque Values.....	120
Unified Inch Bolt and Cap Screw Torque Values.....	123
Warranty	
Product Warranty	126
Tire Warranty	126
California Emission Control System Limited Warranty	126
Limited Battery Warranty	131
John Deere Service Literature	
Order Form	133

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

COPYRIGHT© 1995
John Deere Horicon Works
All rights reserved
Previous Editions
COPYRIGHT© 1994, 1993

SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information.
Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels



CAUTION

HELP AVOID INJURY

- Read operator's manual for operating and training instructions
- Keep shields in place
- Never carry riders
- Keep people a safe distance away
- Maintain all safety devices
- Before leaving vehicle:
 - Shut off engine
 - Lock park brake
 - Remove key

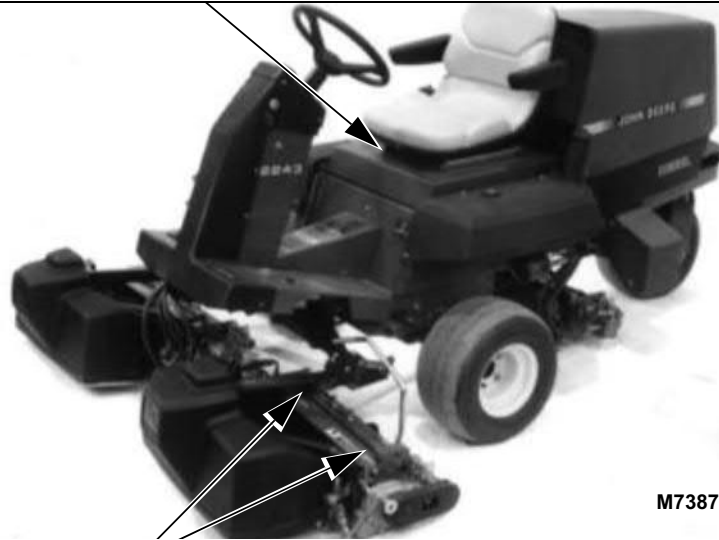
M73830

SAFETY SIGNS

Machine Safety Labels

 DANGER EXPLOSIVE GASES Cigarettes, flames or sparks could cause battery to explode. Always shield eyes and face from battery. Do not charge or use booster cables or adjust post connections without proper instruction and training. Keep vent caps tight and level.	POISON CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. In event of accident, flush with water and call a physician immediately. Keep out of reach of children.
--	--

M74408



	WARNING AVOID INJURY FROM ROTATING BLADES • Keep hands and feet away from rotating blades • Shut off engine before servicing, lubricating or removing cutting units	
---	--	---

M77236

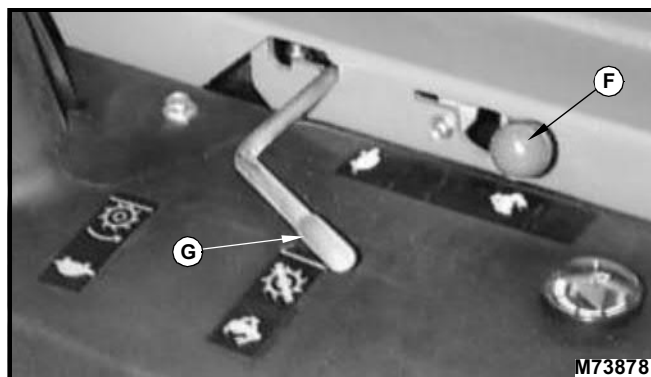
Two on each reel

Certification

This machine has been tested and evaluated by the manufacturer and conforms to reel mower requirements of the American National Standard B-71.4.1990 for Commercial Turf Care Equipment Safety Specification.

CONTROLS

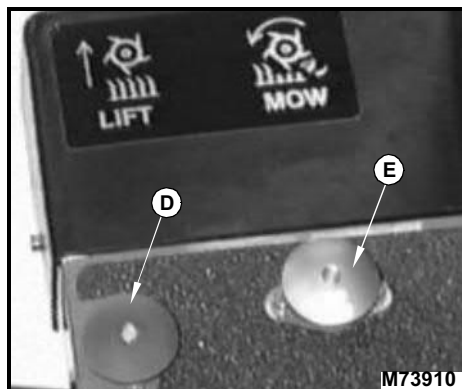
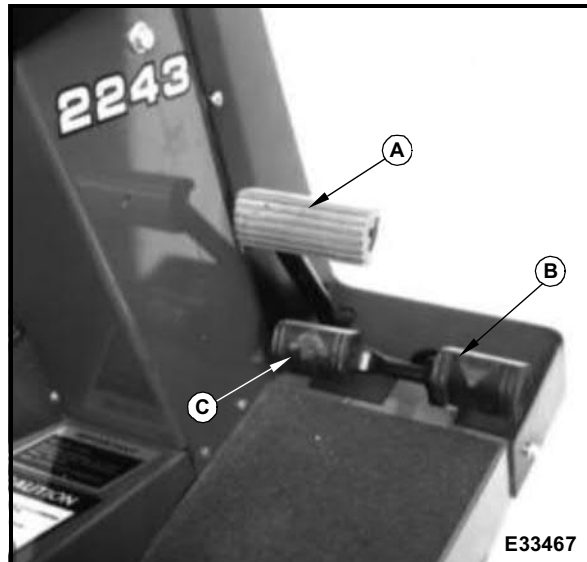
Console Controls



- A - Indicator Lights..... Monitors machine functions
- B - Key Starts engine
- C - Steering Wheel Adjustment..... Adjust steering wheel height
- D - Park Brake Knob..... Engages park brake
- E - Toggle Switch..... Activates engine preheat (glow plug)
- F - Throttle Lever..... Controls engine speed
- G - Mow/Transport Lever..... Mow position, to mow/Transport position, to transport machine.

CONTROLS

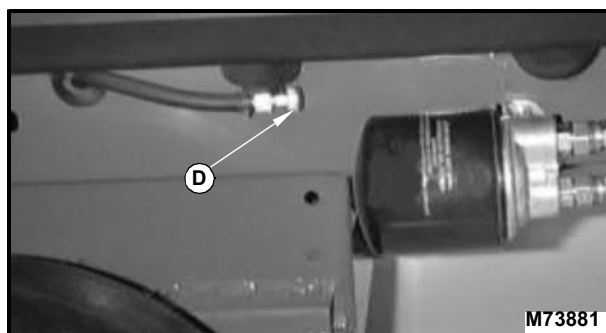
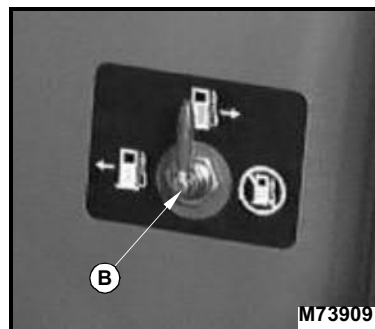
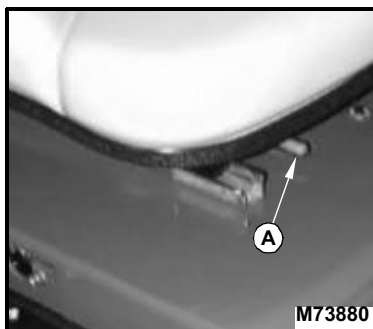
Foot/Platform Controls



- A - Park Brake Pedal/Emergency Brake..... Stops machine
- B - Reverse Travel Pedal.....Backs machine
- C - Forward Travel Pedal Starts machine forward travel
- D - Lift SwitchRaises cutting units
- E - Mow Switch.....Lowers cutting units

CONTROLS

Miscellaneous Controls



- A - Seat Adjustment Moves seat forward and backward
- B - Fuel Select Valve Selects fuel tank
- C - Free-Wheeling Lever Allows machine to be moved
without the engine running (Under seat)
- D - Fuel Shut-Off Valve.....(One under each fuel tank)

OPERATING THE MACHINE

SAFETY

Operate Safely



- Check brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine and attachments properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Be careful of traffic when operating near or crossing roadways.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

Mount and Dismount Safely



- Do not step on pedals when mounting or dismounting.
- Keep step area and platform clean.
- Stop machine, move Mow/Transport lever to transport position, lower cutting units to the ground, lock park brake, stop engine, remove key, and wait for all moving parts to stop before dismounting.



Suggest:

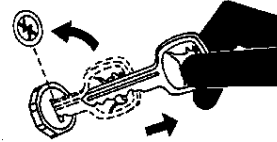
If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading

OPERATING THE MACHINE

Park Safely



- Stop machine on a level surface, not on a slope.
- Disengage cutting units.
- Lower cutting units to the ground.
- Lock park brake.
- STOP engine.
- Remove key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Keep Riders Off



- Only allow the operator on the machine. Keep riders off.
- Riders on the machine or attachment may be struck by foreign objects or thrown off the machine causing serious injury.
- Riders obstruct the operator's view resulting in the machine being operated in an unsafe manner.

<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>