

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Front Mower
1420, 1435, 1445, 1565

OMTCU15664 C2

OPERATOR'S MANUAL



JOHN DEERE

⚠ WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

California Proposition 65 Warning

⚠ 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.

California Proposition 65 Warning

North American Version
Litho in U.S.A.

INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate your business and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you sell it.

Reading your operator's manual will help you and others avoid personal injury or damage to the machine. Information given in this manual will provide the operator with the safest and most effective use of the machine. Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

This manual and safety signs on your machine may also be available in other languages (see your John Deere dealer to order).

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. You can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of this book will help you to find needed information quickly.

The machine shown in this manual may differ slightly from your machine, but will be similar enough to help you understand our instructions.

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 (----->), the item referred to is hidden from view.

Before delivering this machine, your dealer performed a pre-delivery inspection to ensure best performance.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.



CAUTION: Avoid injury! This symbol and text highlight potential hazards or death to the operator or bystanders that may occur if the hazards or procedures are ignored.

PRODUCT IDENTIFICATION

Record Identification Numbers

Front Mower

1420 PIN (TC1420G020001 -)

1435 PIN (TC1435D020001 -)

1445 PIN (TC1445D020001 -)

1565 PIN (TC1565D010001 -)

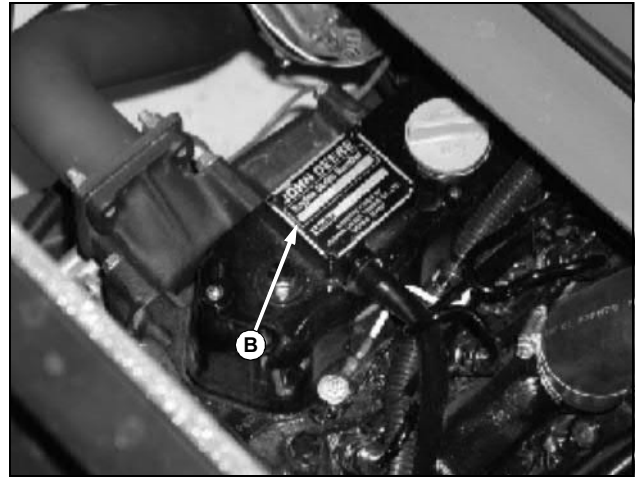
If you need to contact an Authorized Service Center for information on servicing, always provide the product model and identification numbers.

You will need to locate the identification numbers for the product. Record the information in the spaces provided below.

DATE OF PURCHASE:

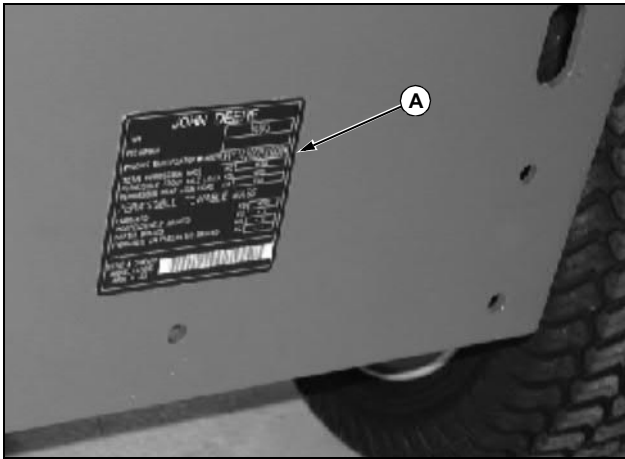
DEALER NAME:

DEALER PHONE:



MX7086

ENGINE SERIAL NUMBER (B):



MX7053

PRODUCT IDENTIFICATION NUMBER (A):

<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>

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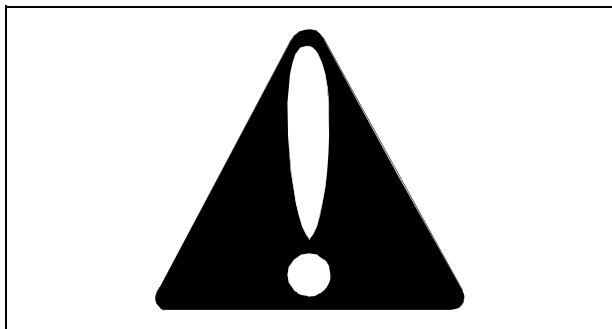
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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John Deere Worldwide Commercial and
Consumer Equipment Division
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OMTCU15664 C2 - English

SAFETY

Understanding the Machine Safety Labels



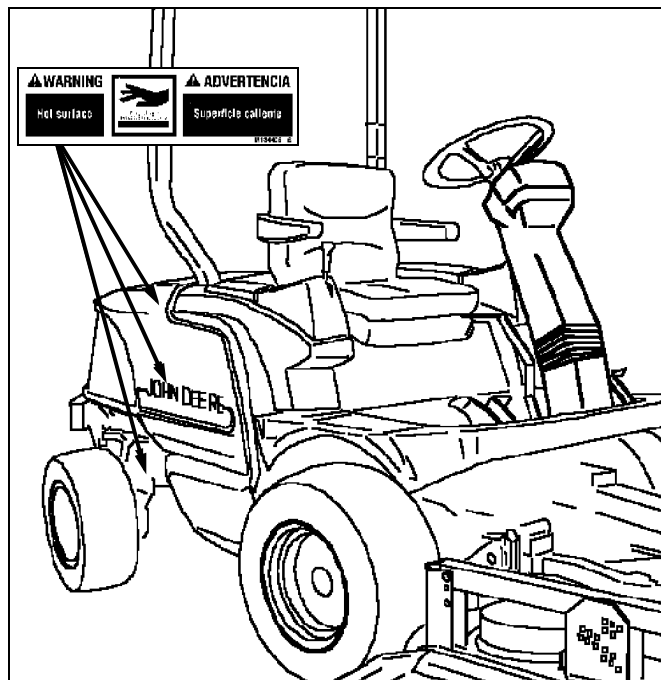
Safety Alert Symbol

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

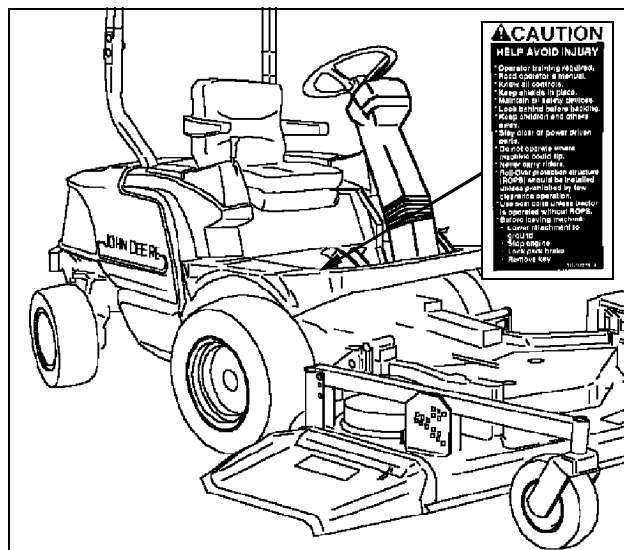
WARNING



MX044, MX4471

Hot surface

CAUTION



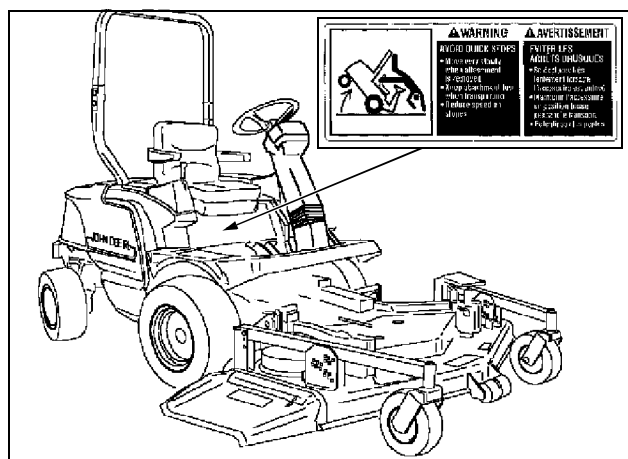
MX4471, MX7037

HELP AVOID INJURY

- Operator training required
- Read operator's manual
- Know all controls
- Keep shields in place
- Maintain all safety devices
- Look behind before backing
- Keep children and others away
- Stay clear of power driven parts
- Do not operate where machine could tip
- Never carry riders
- Roll-over protection structure (ROPS) should be raised unless prohibited by low clearance operation
- Use seat belts unless ROPS is in lowered position
- Before leaving machine:
 - Lower attachment to ground
 - Stop engine
 - Lock the park brake
 - Remove key

SAFETY

WARNING

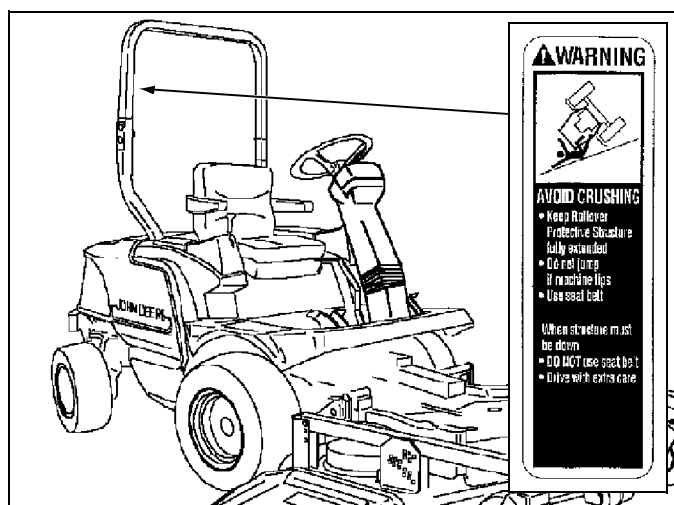


MX4471, MX7035

AVOID QUICK STOPS

- Move very slowly when attachment is removed
- Keep attachment low when transporting
- Reduce speed on slopes

WARNING



MX4471, MX7034

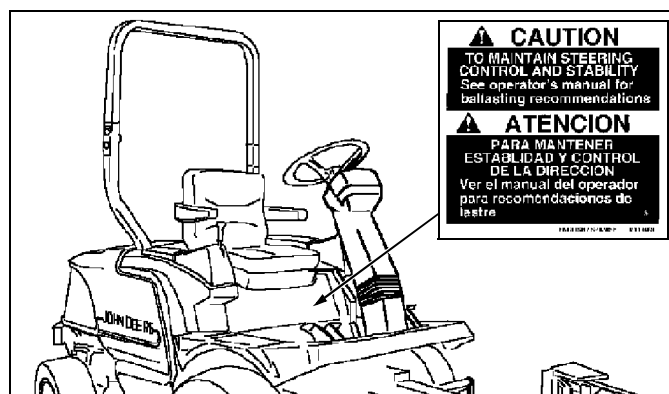
AVOID CRUSHING

- Keep Rollover Protective Structure fully extended
- Do not jump if machine tips
- Use seat belt

When structure must be down

- DO NOT use seat belt
- Drive with extra care

CAUTION

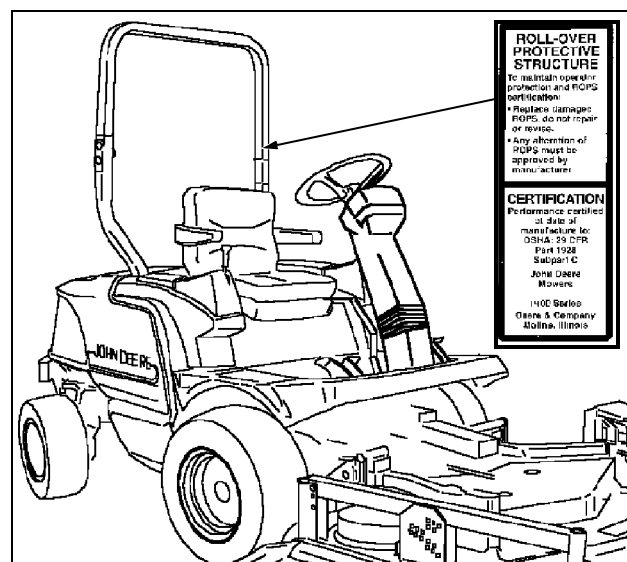


MX4471, MX7038

TO MAINTAIN STEERING CONTROL AND STABILITY

See operator's manual for ballasting recommendations

ROLL-OVER PROTECTIVE STRUCTURE



MX4471, MX0487

To maintain operator protection and ROPS certification:

- Replace damaged ROPS, do not repair or revise
- Any alteration of ROPS must be approved by manufacturer

CERTIFICATION

Performance certified at date of manufacture to:

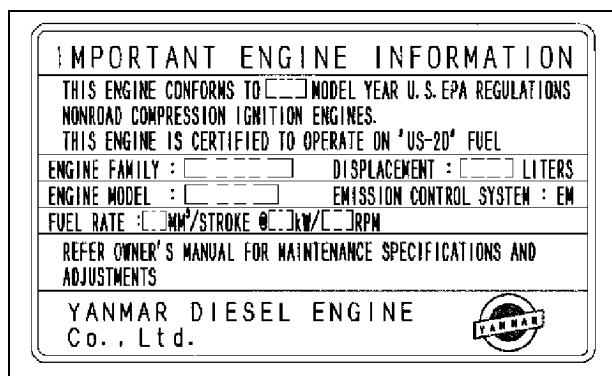
Two Post ROPS – OSHA: 29 CFR, Part 1928, Subpart C

John Deere Mowers, 1400 Series

Deere & Company, Moline, Illinois, U.S.A.

SAFETY

Emissions Control System Certification Label (Non-Road Diesel)



MX5293



CAUTION: Avoid injury! Statutes providing severe penalties for tampering with emissions controls may apply at the user's location.

The emissions warranty described in the warranty section applies only to those engines marketed by John Deere that have been certified by the United States Environmental Protection Agency (EPA) and/or California Air Resources Board (CARB); and used in the United States in non-road mobile (self-propelled or portable/transportable¹) equipment. The presence of an emissions label like the one shown signifies that the engine has been certified with the EPA and/or CARB. The EPA and CARB warranties only apply to new engines having the certification label affixed to the engine and sold as stated above in the geographic areas governed by the regulating agencies.

NOTE: The hp/kW rating on the engine emissions certification label specifies the gross engine hp/kW, which is flywheel power without fan. In most applications this will not be the same rating as the advertised vehicle hp/kW rating.

Emission Control System Certification Label (Small Off-Road Gas Engines)

NOTE: Tampering with emission controls and components by unauthorized personnel may result in severe fines or penalties. Emission controls and components can only be adjusted by EPA and/or CARB authorized service centers. Contact your John Deere Commercial and Consumer Equipment Retailer concerning emission controls and component questions.

The presence of an emissions label signifies that the

1. Equipment moved at least once every 12 months.

engine has been certified with the United States Environmental Protection Agency (EPA) and/or California Air Resources Board (CARB).

The emissions warranty applies only to those engines marketed by John Deere that have been certified by the EPA and/or CARB; and used in the United States and Canada in off-road mobile equipment.

Emission Compliance Period (Small Off-Road Gas Engines)

If your engine has the emission compliance category listed on the emission control system certification or air index label, this indicates the number of operating hours for which the engine has been certified to meet EPA and/or CARB emission requirements. The following table provides the engine compliance period in hours associated with the category found on the certification label.

Agency	Category	Hours
EPA	C	250
EPA	B	500
EPA	A	1000
CARB	Moderate	125
CARB	Intermediate	250
CARB	Extended	500

Certification Label

This model has been tested and evaluated by the manufacturer and conforms to American National Standard Institute B-71.4 safety specifications for commercial turf care equipment as a ride-on turf tractor with approved attachments.

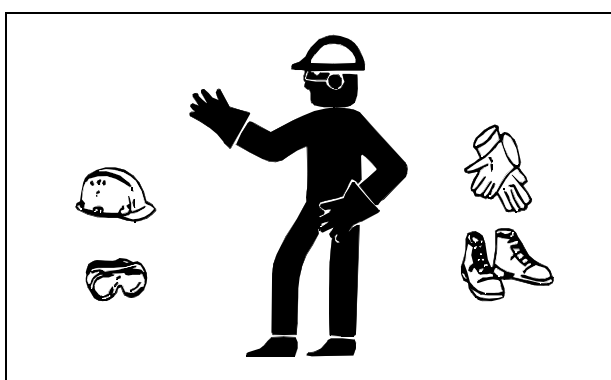
Operator Training Required

- The owner of the machine is responsible for training the users and mechanics of the machine.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Do not allow operation or service of the machine by children or untrained adults.
- Read the operator's manual and study the safety and operation sections before operating the machine.

SAFETY

- If the operator of the machine cannot read or understand this manual, it is the machine's owner responsibility to explain this material to the operator. This publication is available in other languages.
- Operate the machine in an open, unobstructed area under the direction of an experienced operator.
- Learn the use of all controls.
- Operator experience is required to learn the moving, stopping, turning and other operating characteristics of the machine.

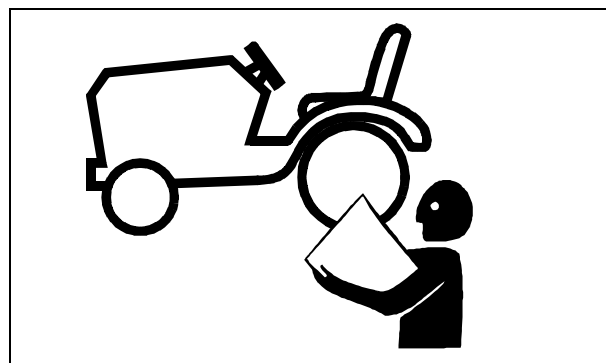
Wear Appropriate Clothing



MIF

- Wear close fitting clothing and safety equipment appropriate for the job.
- Always wear safety goggles or safety glasses with side shields when operating the mower
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.
- Do not wear radio or music headphones. Safe service and operation requires your full attention.

Operating Safely

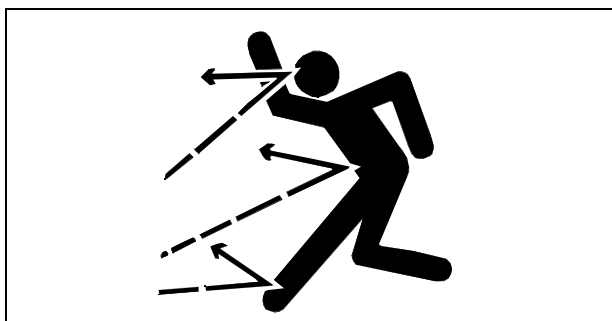


MIF

- 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.
- Check before each use that operator presence controls are functioning correctly. Test safety systems. Do not operate unless they are functioning correctly.
- Do not change the engine governor setting or overspeed the engine.
- Always wear seat belt if machine has a standard ROPS or a folding ROPS in the upright position.
- Check brake action before you operate. Adjust or service brakes as necessary.
- Stop machine if anyone enters the area.
- Never raise mower decks when blades are running.
- If you hit an object, stop and inspect the machine. 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.
- Slow down and be careful of traffic when operating near or crossing roadways. Stop blades before crossing roads or sidewalks. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Be aware of the mower discharge direction and make sure that no one is in the path of the discharge direction.
- Use only accessories and attachments approved by the manufacturer of the machine.

SAFETY

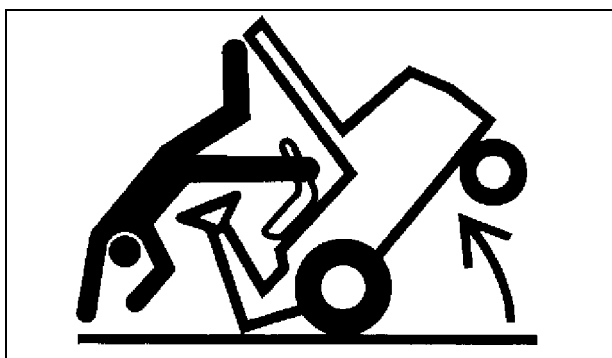
Checking Mowing Area



MIF

- Clear mowing area of objects that might be thrown. Keep people and pets out of mowing area.
- Study mowing area. Set up a safe mowing pattern. Do not mow where traction or stability is doubtful.
- Test drive area with mower lowered but not running. Slow down when you travel over rough ground.

Avoid Tipping

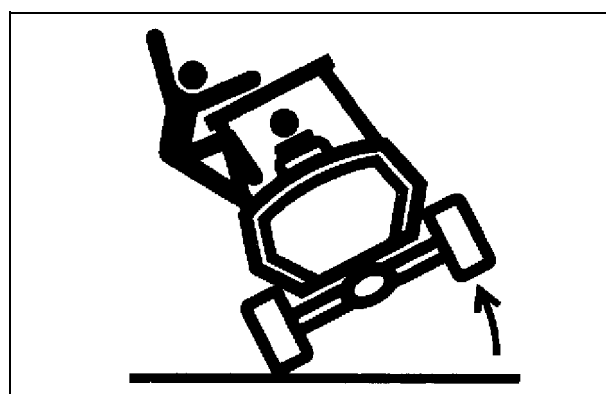


MX0490

- Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death.
- Do not drive where machine could slip or tip.
- Stay alert for holes and other hidden hazards in the terrain.
- Keep away from drop-offs, ditches, and embankments.
- Slow down before you make a sharp turn or operate on a slope. On gear models, choose a low gear so that shifting and stopping will not be necessary while on the slope.
- Limit loads to those you can safely control. Use only approved hitches when pulling loads or using heavy equipment. Use counterweights or wheel weights as required in this manual or your attachment manual.
- Transport machine with decks lowered to improve stability.

- Drive machine very slowly and avoid quick stops when attachment is removed.
- Drive up and down a hill - not across. If necessary, turn slowly and in the downhill direction. On gear models, do not shift to neutral and coast downhill.
- Do not stop when going up hill or down hill. If machine stops going up hill, disengage mower blades and back down slowly.
- Mowing when grass is wet can cause reduced traction and sliding.

Keep Riders Off



MX7036

- 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.

Tire Safety



MIF

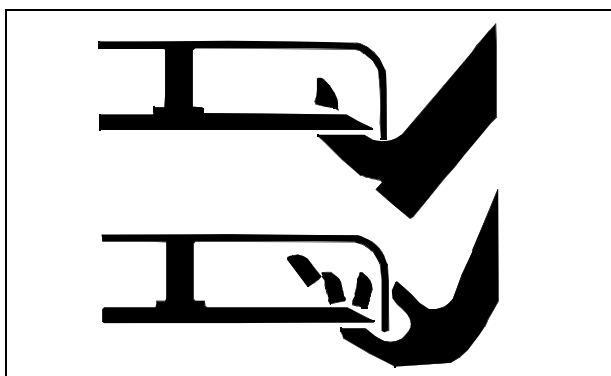
Explosive separation of a tire and rim parts can cause serious injury or death:

SAFETY

- Do not attempt to mount a tire without the proper equipment and experience to perform the job.
- Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly.
- Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

Rotating Blades are Dangerous

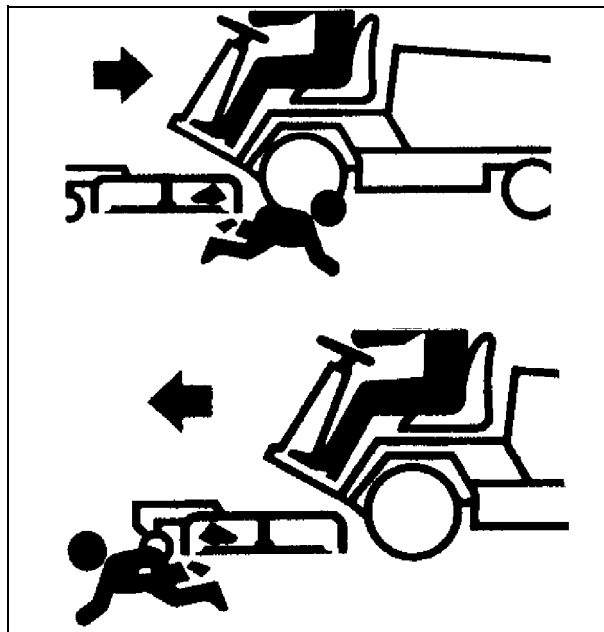
HELP PREVENT SERIOUS OR FATAL ACCIDENTS:



MIF

- Rotating blades can cut off arms and legs.
- Keep hands, feet and clothing away from attachment when engine is running.
- Be alert at all times, drive forward carefully. People, especially children can move quickly into the mowing area before you know it.
- Before backing up, shut off PTO and look down and behind the machine carefully, especially for children.
- Do not operate attachment in reverse.
- Turn off attachment when not being used.
- Do not operate machine if you are under the influence of drugs or alcohol.
- Park machine safely before inspecting or unplugging attachment.

PROTECT CHILDREN:



M73468b, M73468a

- Never assume that children will remain where you last saw them. Children are attracted to machine activity, stay alert to the presence of children.
- Keep children out of the area when you are operating. Turn the machine off if a child enters the area.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- Do not let children or an untrained person operate the machine.
- Do not carry or let children ride on machine or any attachment. Do not tow children in a cart or trailer.

Stay Clear of Rotating Drive Lines



MIF

Entanglement in rotating drive line can cause serious injury or death.

- Wear close fitting clothing.

SAFETY

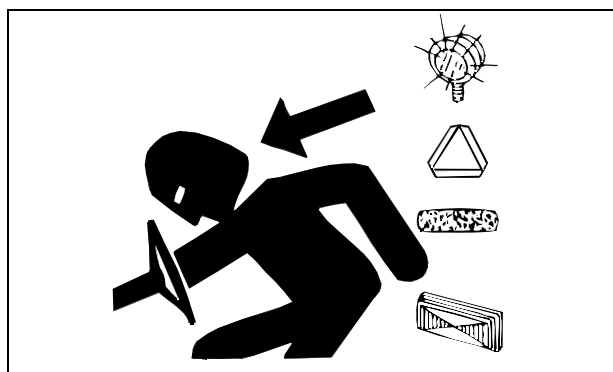
- Stop the engine and be sure PTO drive line is stopped before getting near it.

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Turn off PTO switch.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.

Driving Safely on Public Roads

Avoid personal injury or death resulting from a collision with another vehicle on public roads:



MIF

- Use safety lights and devices. Slow moving machines are hard to see when driven on public roads, especially at night.
- Whenever driving on public roads, use flashing warning lights and turn signals according to local regulations. Extra flashing warning lights may need to be installed.

Practice Safe Maintenance



MIF

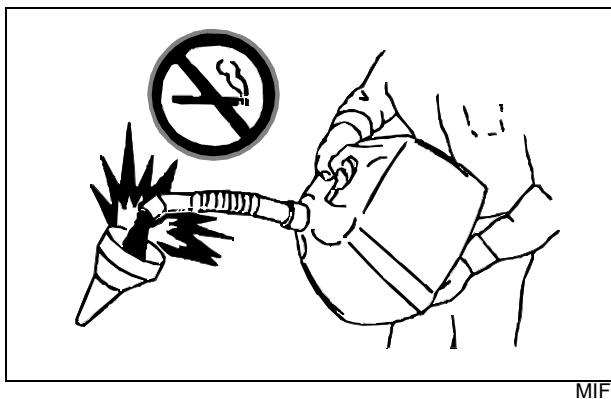
- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower attachments to the ground before servicing machine. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire before making any repairs.
- Before servicing machine, carefully release pressure from components with stored energy such as hydraulic components.
- Keep all nuts and bolts tightened, especially blade attachment bolts.
- Securely support any machine elements that must be raised for service work. Lock service latches before working on machine with raised attachments.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- To prevent fires, remove any buildup of grease, oil, or debris from the machine, especially the engine compartment.
- Charge batteries in an open, well-ventilated area, away from sparks. Unplug battery charger before connecting or disconnecting from the battery. Wear protective clothing and use insulated tools.
- Do not modify machine or safety devices. Unauthorized modifications may impair its function and safety.

SAFETY

- Do not wear radio or music headphones while servicing the machine. Safe service requires your full attention.

Handling Fuel Safely

Fuel and fuel vapors are highly flammable and explosive:



- DO NOT refuel machine while you smoke, when machine is near an open flame or sparks, or when engine is running. STOP engine and allow to cool before filling.
- Never remove the fuel cap or add fuel with the engine running.
- Never fill fuel tank or drain fuel from a machine in an enclosed area. Fill fuel tank outdoors.
- Prevent fires. Clean up spilled fuel immediately.
- Do not store machine with fuel in tank in a building where fumes may reach an open flame or spark.
- Prevent fire and explosion caused by static electric discharge. Use only non-metal, portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing & Materials (ASTM). If using a funnel, make sure it is plastic and has no screen or filter.
- Static electric discharge can ignite gasoline vapors in an ungrounded fuel container. Remove the fuel container from the bed of a vehicle or the trunk of a car and place on the ground away from the vehicle before filling. Keep nozzle in contact with container opening while filling.



- When practical, remove equipment from trailers or truck beds and refuel them on the ground. If this is not possible, use a portable, plastic fuel container to refuel equipment on a truck bed or trailer.
- For gasoline engines, do not use gasoline containing methanol. Methanol is harmful to your health and to the environment.

Avoid High Pressure Fluids



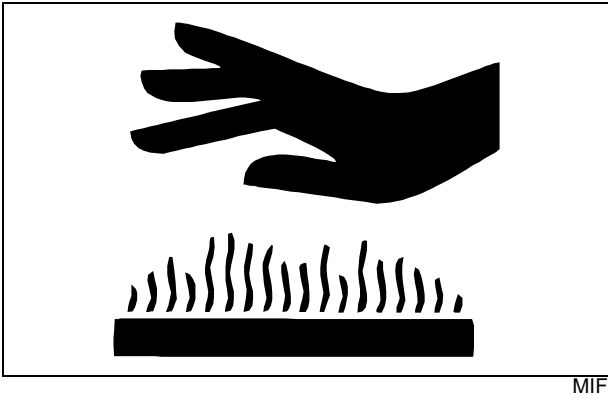
- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid 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 should reference a

SAFETY

knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information may be obtained in the United States and Canada only by calling 1-800-822-8262.

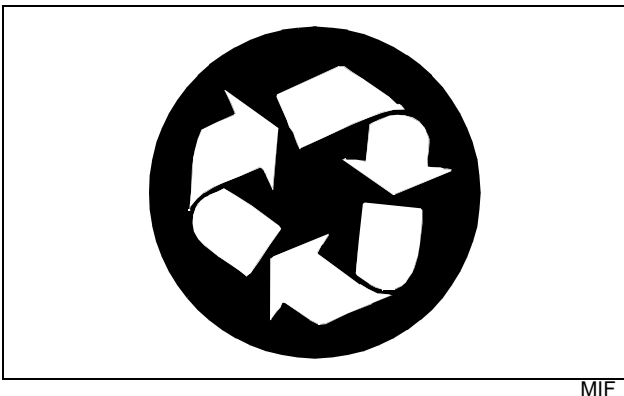
details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the MSDS for that product.

Prevent Fires



- Never remove fuel cap, or add fuel with engine running or hot. Allow engine to cool for several minutes.
- Never store equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.
- Allow engine to cool before storing in any enclosure.
- To reduce fire hazard, keep engine free of grass, leaves, or excessive grease.

Handling Waste Product and Chemicals



Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- DO NOT use beverage containers for waste fluids - someone may drink from them.
- See your local Recycling Center or John Deere dealer to learn how to recycle or get rid of waste products.
- A Material Safety Data Sheet (MSDS) provides specific

OPERATING MACHINE

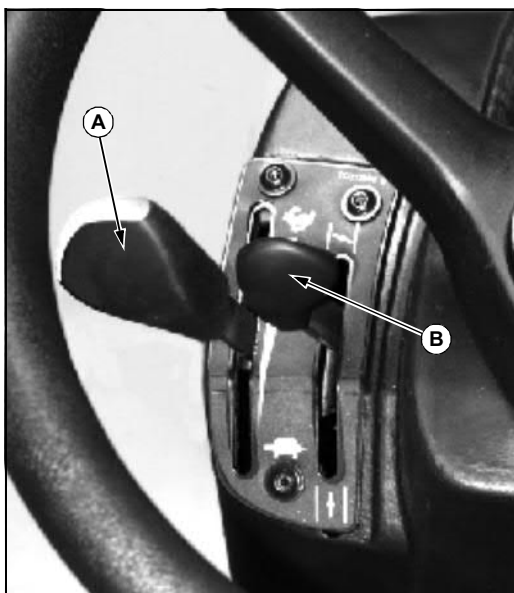
Daily Operating Checklist

- Test safety systems.
- Check tire pressure.
- Check fuel level.
- Check engine, transaxle, and 4WD oil levels.
- Remove debris from machine and attachment.
- Clean air intake screen.
- Check area below machine for leaks.
- Check air restriction indicator.
- Check engine coolant level.
- Remove debris from radiator, oil cooler, and alternator.
- Check brakes and forward and reverse pedals.

Avoid Damage to Plastic and Painted Surfaces

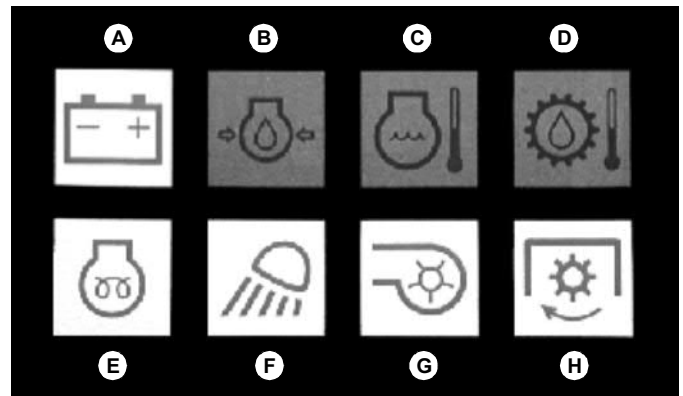
- Do not wipe plastic parts unless rinsed first. Using a dry cloth may cause scratches.
- Insect repellent spray may damage plastic and painted surfaces. Do not spray insect repellent near machine.
- Be careful not to spill fuel on machine. Fuel may damage surface. Wipe up spilled fuel immediately.

Operator Station Controls



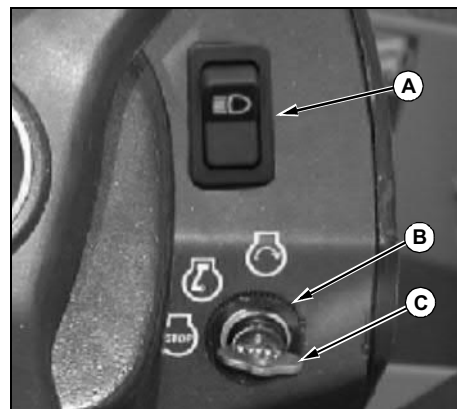
MX4473

- A - Throttle Lever**
- B - Choke Lever (Model 1420 Only)**



MX10659

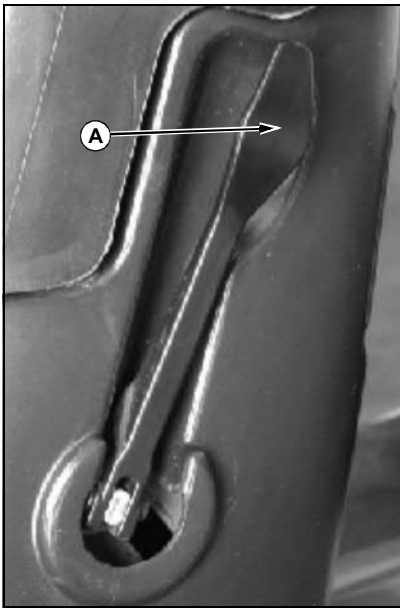
- A - Battery Discharge Lamp**
- B - Engine Oil Pressure Lamp**
- C - Engine Coolant Temperature Lamp**
- D - Hydraulic Oil Temperature Lamp (Not Used)**
- E - Engine Manifold Heater Lamp (Diesel Only)**
- F - Work Lamp Indicator**
- G - Material Collection System Lamp**
- H - Power Take-Off Indicator Lamp**



MX10662

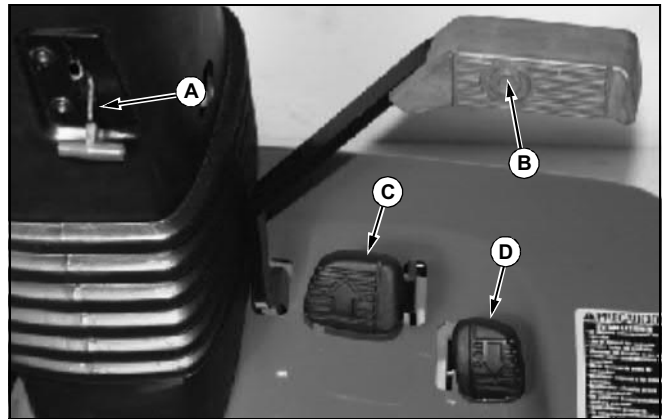
- A - Work Lamp Switch**
- B - Key Switch**
- C - Key**

OPERATING MACHINE



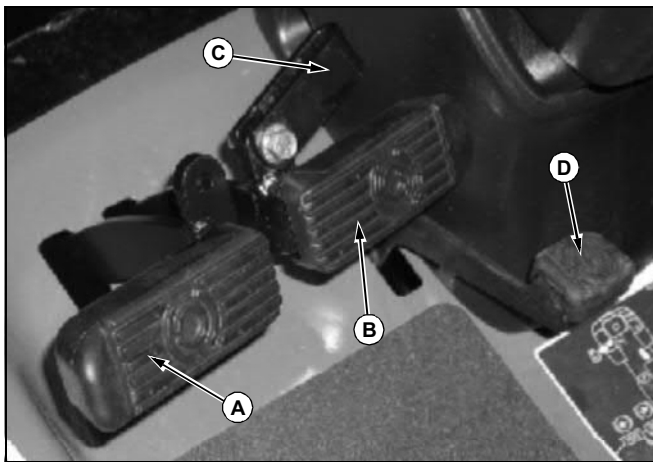
MX10660

A - Steering Column Tilt Lock Lever



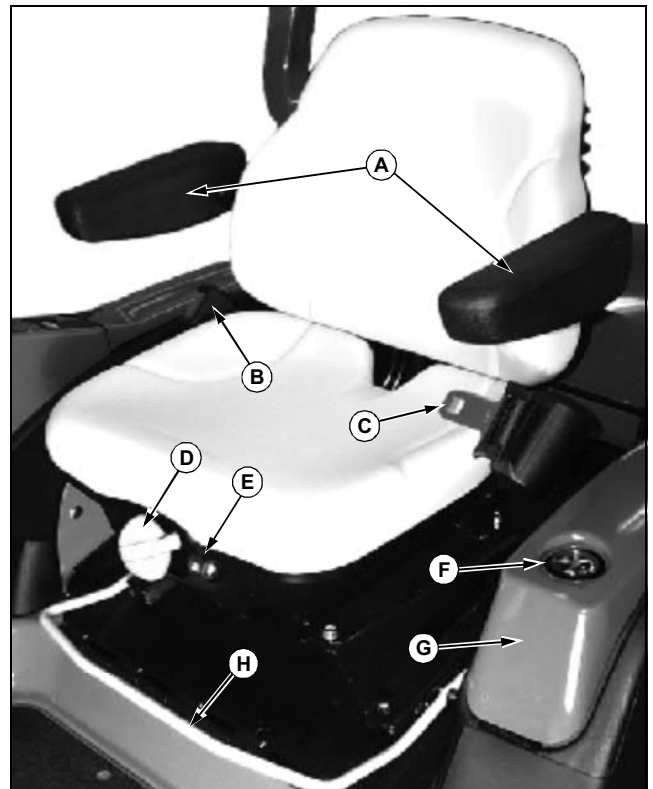
MX4474

- A - Park Brake Lock Lever**
- B - Master Brake Pedal**
- C - Forward Pedal**
- D - Reverse Pedal**



MX10661

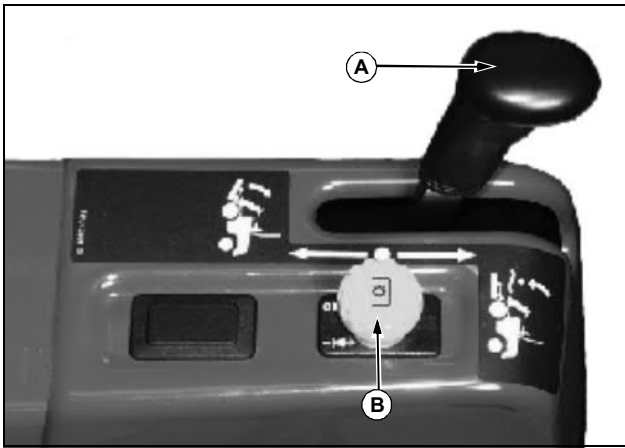
- A - Left Turn Brake Pedal**
- B - Right Turn Brake Pedal**
- C - Turn Brake Pedal Lock (1565 only)**
- D - Differential Lock Pedal**



MX4477

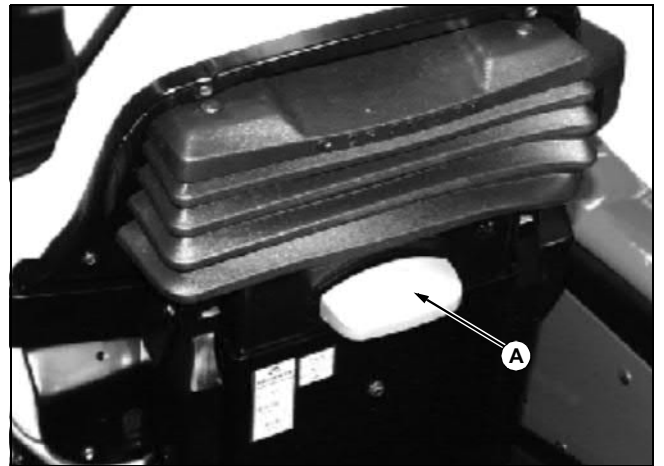
- A - Folding Armrests**
- B - Seat Belt Latch**
- C - Seat Belt Buckle**
- D - Seat Spring Adjustment Knob**
- E - Seat Spring Weight Indicator**
- F - Fuel Gauge**
- G - Storage Compartment**
- H - Seat Adjustment Lever**

OPERATING MACHINE



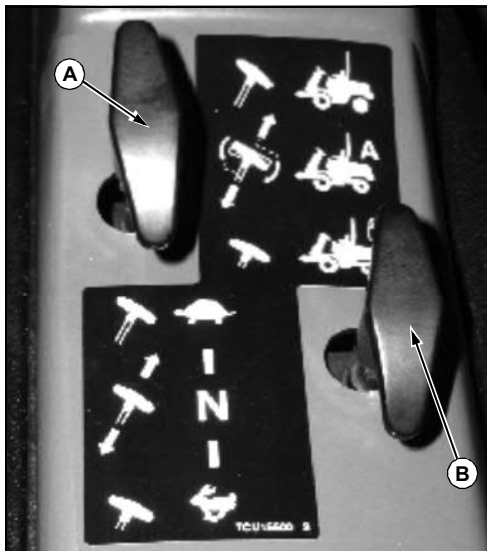
MX4483

A - Attachment Lift Lever
B - PTO Knob



MX4478

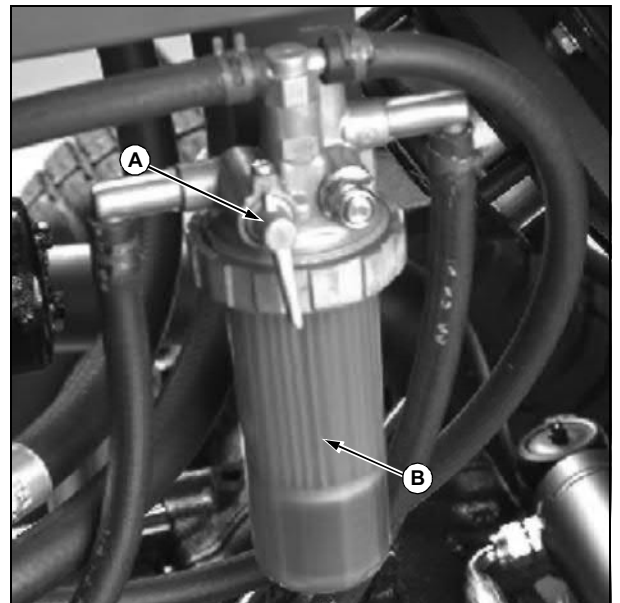
A - Seat Height Adjustment Lever



MX10663

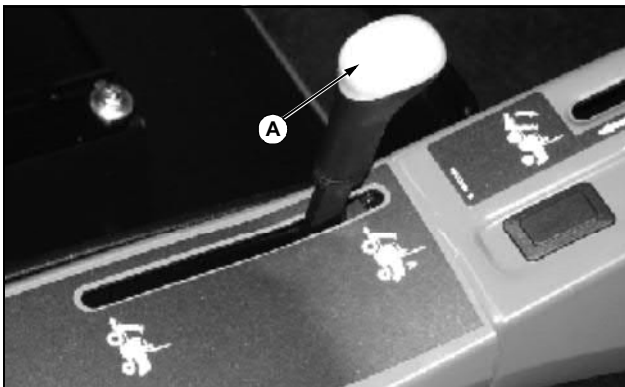
A - 4WD Control Lever (1565 Model)
B - Two-Speed Transaxle Shift Lever (1565 Model)

Miscellaneous Controls



MX4498

A - Fuel Shutoff Valve (Diesel Models)
B - Fuel Filter/Water Separator (Diesel Models)



MX7003

A - 4WD Control Lever (1420, 1435, 1445 Models)

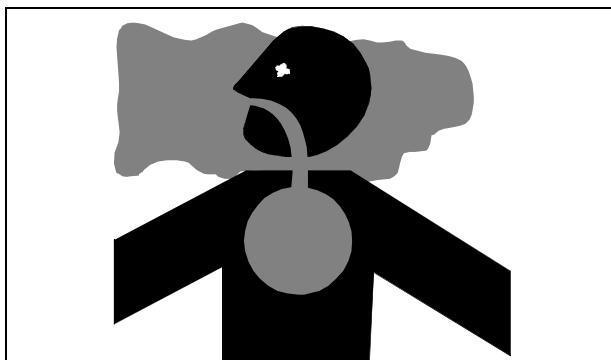
OPERATING MACHINE



MX10673

A - 12Volt DC Power Outlet

Testing Safety Systems



MIF



CAUTION: Avoid injury! Sickness or possible death can result from breathing engine exhaust fumes.

Do not run an engine in an enclosed area without:

- An extension connected to the exhaust pipe of the engine directing the fumes out of the area.
- Doors and windows open allowing fresh air into the area and getting the exhaust fumes out.

Use the following checkout procedure to check for normal operation of machine.

If there is a malfunction during one of these procedures, Do not operate machine. **See your John Deere dealer for service.**

Perform these tests in a clear open area. Keep bystanders away.

Testing PTO Switch

1. Sit on the seat. (Seat should spring down slightly so seat switch is actuated.)
2. Lock the park brake.
3. Pull PTO knob up to the on position.
4. Try to start engine.

Result: The starting motor must not engage. If it does, there is a problem with your safety interlock circuit.

5. Unlock the park brake (keep the PTO switch on). Try to start engine.

Result: The starting motor must not engage. If it does, there is a problem with your safety interlock circuit.

Testing Seat and Park Brake Switch

1. Sit on seat. (Seat should spring down slightly so seat switch is actuated.)
2. Push PTO knob down to the off position.
3. Push down master brake pedal.
4. Start engine.
5. Release master brake pedal.
6. Raise up off of seat, but do not get off machine.

Result: Engine should stop. If engine does not stop, there is a problem with your safety interlock circuit.

Testing the Park Brake

1. Stop machine on a 17° slope (30% grade). Stop the engine and lock the park brake.

Result: Park brake must hold the machine stationary. (ANSI standards permit movement of no more than 61cm (24 in.) in one hour.) If machine moves more than that, brakes need to be adjusted. See your John Deere Dealer.



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 MACHINE

Using Proper Ballast



MX7705

- Attachments used with this machine may require ballast to prevent tipping and loss of control when the attachment is raised.
- Check the attachment operator's manual or see your John Deere dealer for ballasting information.

Adjusting Seat

To adjust seat position:

1. Sit on seat.



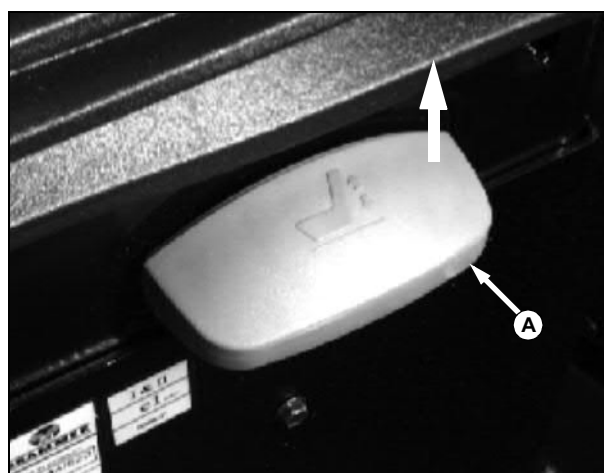
MX4477

2. Pull seat adjustment lever (A) up, out of locked position.
3. Slide seat forward or rearward to desired position. Operator's right heel should be able to rest firmly on the floor in front of the forward and reverse pedals.
4. Release lever.

To adjust seat spring tension:

1. Turn seat spring adjustment knob (B) to adjust seat spring tension while watching weight indicator (C).
2. Match weight of operator to value shown in weight indicator. Seat must spring slightly so that operator's presence switch will be actuated, allowing engine to start.

To adjust seat height:



MX4479

1. Pull up on the front of the base of the seat, and the seat height adjustment lever (A), until the seat height lock disengages.
2. Raise or lower the operator's seat to desired height. (There are four positions available.)
3. Release the seat height lock lever and continue to move the seat slightly until it latches in place.

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